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ILLINOIS POLLUTION CONTR	OL BOARD	
SIERRA CLUB, ENVIRONMENTAL LAW AND POLICY CENTER, PRAIRIE RIVERS NETWORK AND CITIZENS AGAINST RUINING THE ENVIRONMENT,)))	
Complainant,)	
-v-)) No. PCB 13-15	
MIDWEST GENERATION, LLC,)	
Respondent.)	

Report of Proceedings had at the Hearing on October 25th, 2017, at the hour of 9:00 o'clock a.m, pursuant to notice, at 100 West Randolph Street, Ninth Floor, Chicago, Illinois, before HEARING OFFICER BRADLEY P. HALLORAN.

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Page 2
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		Page 3
1	I N D E X	
2	WITNESS:	PAGE
3	REBECCA MADDOX	
4	Cross-Examination - Ms. Dubin Redirect Examination - Ms. Nijman	10 30
5	RICHARD GNAT	
6	Direct Examination - Mr. Wannier	39
7	Voir Dire Examination - Ms. Gale	42
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

			Page 4
1	EXHI	B I T S	
2	Complainant Exhibit No.	Admitted	
3	201 202	51 53	
4	203 204G through 209G	54 61	
5	210H through 215H 216I through 220I	65 66	
6	J222 to J228 K229 through 235.5	68 70	
7	236L through 241L 242	72 91	
8	243M 293	93 112	
9	248N 249N	117 120	
10	250N 251N	121 126	
11	253 254	138 141	
12	255 256 to 260	148 150	
13	261 263	154 107	
14	P 271	182 189	
15	274 275	195 198	
16	276 2780 to 2810	212 216	
17	284 286	220 223	
18	Respondent Exhibit No.	Admitted	
19	511	Admitted 6	
20	~ + +	U	
21			
22			
23			
24			

	Page 5
1	HEARING OFFICER HALLORAN: We're in the middle
2	of a hearing. We're starting cross.
3	Ms. Nijman, proceed.
4	MS. DUBIN: We're ready. Mr. Hearing Officer
5	we have some follow-up from yesterday.
6	HEARING OFFICER HALLORAN: Let me do my speal
7	first. Anyway, we're on the record. Good morning
8	everybody. My name is Bradely Halloran. I'm a
9	Hearing Officer with the Illinois Pollution Control
10	Board.
11	I'm assigned to this matter entitled
12	"Sierra Club Environmental Law and Policy Center,
13	Prairie Rivers Network and Citizens Against Ruining
14	the Environment, Complainants, versus Midwest
15	Generation, LLC," referred to as Complainants or
16	Citizens Group. It's docketed as PCB 13-15.
17	It's a water enforcement. Today is
18	October 25th. This is the third day of hearing.
19	We've continued on the record from 23rd and 24th.
20	It's approximately 9:05.
21	In any event, right now we have Ms. Maddox
22	is still on the stand, and we're due for crossing
23	from Ms. Dubin. I understand Ms. Nijman has some
24	housekeeping matters first.

	Page 6
1	MS. NIJMAN: Yes. Yesterday we moved to admit
2	Midwest Gen Exhibit 511, and there was an objection
3	by the complainant concerning the size of the
4	exhibit because they couldn't read it.
5	We have provided complainant this morning
6	with an oversized colored map that is completely
7	legible. I would like to submit this replaced
8	Exhibit 511 and move for admission.
9	HEARING OFFICER HALLORAN: Ms. Dubin?
10	MS. DUBIN: I have no objection, and thank you
11	very much for getting that to us.
12	MS. NIJMAN: You're welcome.
13	MS. DUBIN: I have a similar housekeeping
14	matter.
15	HEARING OFFICER HALLORAN: Midwest Generation's
16	Exhibit 511 is admitted.
17	(Respondent Exhibit No. 511 was
18	admitted into evidence.)
19	HEARING OFFICER HALLORAN: Thank you. Ms.
20	Dubin?
21	MS. DUBIN: I have a similar housekeeping
22	matter. Earlier when Ms. Maddox was on direct with
23	plaintiffs yesterday, there was an issue over
24	Complainant's Exhibit 308.

	Page 7
1	And opposing counsel had objected I'll
2	let you fish for it for a minute.
3	HEARING OFFICER HALLORAN: It might be more
4	than a minute.
5	MS. DUBIN: Absolutely. I have
6	MS. NIJMAN: Lindsay, are you sure it's 308?
7	Because I don't have a 308 in my list.
8	MS. DUBIN: Oh, gosh. It might be because
9	so, it's complainant's exhibit beginning at Bates
10	28350.
11	HEARING OFFICER HALLORAN: I don't have a 308
12	either. Maybe you took it back.
13	MS. DUBIN: All right. I apologize. I wonder
14	if it's because there were concerns and objections
15	to its inclusion.
16	HEARING OFFICER HALLORAN: Counsel, are we on
17	the record or off?
18	MS. DUBIN: We're off the record now.
19	HEARING OFFICER HALLORAN: Thank you.
20	(Discussion off the record.)
21	HEARING OFFICER HALLORAN: We're back on the
22	record. We took a little brief break for
23	housekeeping matters. If the court reporter will
24	swear Rebecca Maddox in again, please.

Page 8
Ms. Dubin, cross?
MS. DUBIN: So, I guess so we're not fumbling
around in the middle of this, you might want to pull
out now Complainant's Exhibit 11D and Complainant's
Exhibit 302, just so you have it as we're talking.
That will be easy to have it ahead of time.
MS. NIJMAN: I'm sorry, what are they?
MS. DUBIN: 11B is the letter written by
opposing counsel, or on behalf of Midwest
Generation, in response to the notice of violation
dated July 27 2012.
And then Complainant's Exhibit 302 is the
field change request submitted by Brieser and signed
off by Ms. Maddox.
MS. NIJMAN: These are complainant's exhibits?
MS. DUBIN: Yes. Both of these are
complainant's exhibits. They are just going to be
useful to have as we're talking.
HEARING OFFICER HALLORAN: I'm having trouble
finding it.
MS. DUBIN: No problem.
HEARING OFFICER HALLORAN: 11?
MS. DUBIN: 11B, B as in boy.
MS. NIJMAN: I guess I'm struggling here

Page 9 1 because this isn't cross. 2 MS. DUBIN: Yes. We're going to be asking 3 questions about evidence that has already been 4 admitted and comparing it to evidence that you guys 5 discussed on your direct yesterday. HEARING OFFICER HALLORAN: I don't have 116B. 6 7 I'll look through my notes. 8 MS. DUBIN: Okay. 9 HEARING OFFICER HALLORAN: I'll look through my notes. I have it in my notes it was admitted, no 10 11 objection. 12 We can provide you with another. MS. BUGEL: 13 MS. NIJMAN: Could you find the witness a copy? 14 MS. DUBIN: The witness has a copy. Here is 15 11B. 16 Do all you have copies in front of you 17 now? 18 HEARING OFFICER HALLORAN: I do. 19 MS. NIJMAN: Yes. 20 MS. DUBIN: Great. So we'll get started. 21 22 23 24

	Page 10
1	(Witness was previously sworn.)
2	REBECCA MADDOX,
3	called as a witness herein, after having been previously
4	duly sworn, was examined and testified as follows:
5	CROSS-EXAMINATION
6	BY MS. DUBIN:
7	Q. Yesterday, I saw some conflicting
8	information about how many layers of Poz-O-Pac there
9	are in the Will County ash ponds.
10	There are two layers of Poz-O-Pac in one
11	north, correct?
12	A. In one north, correct.
13	Q. And those layers of Poz-O-Pac are the
14	first layer is 12 inches of Poz-O-Pac?
15	A. I believe so.
16	Q. And then 12 inches of fill material?
17	A. I don't recall the exact amount.
18	Q. And after that, do you believe it's
19	12 inches of Poz-O-Pac again?
20	A. Yes.
21	Q. So, I just wanted to clarify only because
22	there is some documents that seem complex.
23	If you don't mind taking a look at the
24	very first tab of the respondent's exhibit list,

Page 11 Midwest Gen Exhibit 500, please. Hopping over to 1 2 Bates Midwest Gen 5, there are descriptions of the 3 Will County ash pond. I first wanted to start out this was 4 5 prepared by Rebecca Schwartz; is that correct, this document? 6 7 Α. Her name is listed as that, yes. And Rebecca Schwartz was an intern at 8 Ο. 9 Midwest Generation? 10 I understand that. I wasn't employed Α. there at the time I prepared this. 11 12 If you look at back at Midwest Gen 5, the Ο. second line of text says "bottom" and then it says, 13 "6-6 inch list of Poz-O-Pac with a bituminous curing 14 15 coat." 16 So, does that mean in this document that 17 it's for Will County north ash pond, it's 36 inches of Poz-O-Pac, according to this? 18 19 According to this document, it is. Α. 20 However, there are other documents in plant 21 engineering diagrams that I was relying off of as 22 well. 23 Okay. And then just to clarify, can you Q. 24 turn the page to Bates Midwest Gen 7?

Page 12 This also says that the bottom of the pond 1 2 is 36 inches of Poz-O-Pac; is that correct? 3 That's correct. But, again, different Α. 4 engineering documents that I relied on for what I 5 thought was the appropriate layers of Poz-O-Pac. 6 Ο. And that's for south ash pond 1? 7 Α. That's correct. 8 If you flip the page again, Bates Midwest Ο. 9 Gen 8 south ash pond 2. 10 Again, it says on the bottom, and I note, "South ash pond 2 has been relined." 11 12 But at the time that this was written, it says that it was 36 inches of Poz-O-Pac, correct? 13 14 Α. That's correct. Again, I had different 15 documents that I was using that were engineering 16 documents in construction of the pond. 17 Ο. Thank you. And then, finally, for south 18 ash pond 3, again it says at the bottom it's 19 36 inches of Poz-O-Pac; is that correct? 20 That's correct. Again, I had different Α. 21 diagrams and engineering documents showing the 22 Poz-O-Pac construction. 23 All right. So, we'll turn away from the Ο. 24 intern document and now instead hop over to Bates

	Page 13
1	Comp 11B, which is the violation notice submitted or
2	response to the violation notice provided by counsel
3	for Midwest Gen.
4	HEARING OFFICER HALLORAN: Is this complainant
5	Exhibit 11B?
6	MS. DUBIN: Yes, sir.
7	HEARING OFFICER HALLORAN: Okay.
8	BY MS. DUBIN:
9	Q. Now, if you turn to Bates Midwest Gen
10	Bates 425, you will see the large paragraph in there
11	discusses the relining of pond 3S?
12	MS. NIJMAN: Objection to foundation.
13	MS. DUBIN: This is evidence already in the
14	record.
15	HEARING OFFICER HALLORAN: I'll allow it. You
16	made proceed. Overruled.
17	BY MS. DUBIN:
18	Q. So, the large paragraph discusses the
19	relining of pond 3 south, but then the next
20	paragraph down, the first sentence says, "The other
21	three Will County ash ponds that are still
22	constructed of Poz-O-Pac material meet expected
23	standards for preventing the migration of
24	constituents to the environment.

Page 14 1 "Each has a bottom constructed of two 2 12-inch layers of Poz-O-Pac surrounding 12 inches of 3 fill material, insides constructed of three deep Poz-O-Pac." 4 5 Is that your understanding what the ponds, 6 other than 3S, what their bottoms consisted of at the time? 7 8 Α. That's my understanding, yes. 9 Now, I would like you to please take a Q. look at Respondent's Exhibit 510, which is tab 11. 10 Now, this is the letter from NRT regarding 11 12 the relining of south ash pond 2, correct? It is. 13 Α. 14 Ο. If you don't mind, please, turning the 15 page to Bates 34271, and then in a text you'll see 16 three black bulleted points and then two white 17 bulleted points. 18 MS. NIJMAN: I'm sorry, what page are you on? 19 MS. DUBIN: Sure. It's 34271. 20 BY MS. DUBIN: 21 Q. You'll see three black bulleted points and 22 three white bulleted points. 23 If you don't mind taking a look at the 24 second point, it says, "Boring to 0 to 6 inches

Page 15 first layer Poz-O-Pac. 6 to 12 inches second layer 1 2 of Poz-O-Pac. 12 to 24 sandy clay fill with 3 gravel," and then, "24 to 36 third layer of Poz-O-Pac." 4 5 Do you see that? 6 Α. I do. 7 So, again, that's your understanding of Q. 8 the bottom of south ash pond 2, correct? 9 Α. That's what's written in this document based on the boring sample. 10 11 And then, finally, I wanted to take a look Ο. 12 at one more document within this same exhibit 13 located -- oh, gosh the text is small on this map. 14 So, if don't mind looking for Bates page 15 34426, and then just turning to page 1. 16 Could you repeat that Bates number? Α. 17 Ο. Sure. 34426. HEARING OFFICER HALLORAN: This is tab 13? 18 19 BY MS. DUBIN: 20 It's still tab 11. So, still Midwest Gen Ο. 21 Exhibit 510. And then the two pages from that, 22 you'll see a map, and you'll see the Bates number is 23 small, which is why I didn't give that one in the 24 frame of reference.

Page 16 1 You'll see for south ash pond 2, in the 2 very center, there is sort of a bubble and then 3 sticking out from the bubble, you'll see a line 4 going to a rectangle with one, two, three, four 5 segments, and we're concerned with that top 6 rectangle of the four segments. 7 Does that appear to be a diagram of a bore 8 or the results of a boring in the center of the 9 pond? 10 Α. It appears to be, yes. 11 Again, that says the first layer is 6 Ο. 12 inches the Poz-O-Pac, correct? That's correct. 13 Α. 14 Ο. The second layer says "6 inches of Poz-O-Pac," correct? 15 16 Α. Yes. 17 Ο. The third layer says, "Sandy clay fill with gravel, " correct? 18 19 Α. That's correct. 20 And the final layer says 12 inches Q. Poz-O-Pac," correct? 21 22 Α. Greater than 12 inches. 23 Greater. Finally -- that's all the Ο. 24 questions I have on this issue. I just wanted to

Page 17 1 clarify a little bit more. So, thank you. 2 And then with pond 3, did it have similar 3 -- was it a similar design as far as layers of 4 Poz-O-Pac go? 5 I believe I recall, yes. Α. 6 Ο. For one north as well? 7 Α. That I don't know. I don't believe there 8 were any borings performed on 1 north. 9 And for 1 south? Q. Again, we never did a boring of 1 south 10 Α. that I can recall. So, I don't know. 11 12 The next point or issue I Ο. Thank you. would like to discuss is back to the field change 13 14 request, and that's the issue of cutting holes to 15 remove water from -- that was trapped inside of the 16 liner of the pond. 17 So, the field change request was Complainant's Exhibit 302, and if you don't mind 18 19 taking a look at Midwest Gen Exhibit 507. 20 Who is Rick Gunther? 21 Α. Rick Gunther was the professional engineer 22 from NRT who worked on the project and performed 23 inspections during the project. 24 Was Mr. Gunther on site every day during Q.

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 18 the relining of south ash pond 3? 1 2 I don't recall if he was, if it was him or Α. 3 Heather Simon. 4 Are the days covered in the field notes Ο. 5 the only days that they were present on the site? I can't answer that. 6 Α. 7 Who are Brieser or who is Brieser? 0. 8 Α. Brieser is the contractor who performed 9 basically everything except installing the liner. So, material removal, true grading, preparing the 10 subject grade, everything except liner installation. 11 12 Now, if you don't mind taking a look the Ο. Bates page 8250, which is in Midwest Gen 13 14 Exhibit 507, this is the note that you discussed 15 yesterday filled out by Mr. Gunther? 16 MS. NIJMAN: Sorry, Lindsay, what's the Bates 17 page? 18 MS. DUBIN: Oh, sure. It's 8250. 19 MS. NIJMAN: That's exhibit? 20 MS. DUBIN: This is Midwest Gen Exhibit 507 underneath tab 8. 21 22 MS. NIJMAN: Thank you. 23 BY MS. DUBIN: 24 Now, we discussed the third bullet down Q.

	Page 19
1	says that, "There was water underneath the liner.
2	This is runoff that was pushed to these areas when
3	placing warning layer. It will disappear once the
4	pond is filled up. I informed Becky, Midwest Gen,
5	of this."
6	Were you informed of this by Mr. Gunther?
7	A. I was.
8	Q. And he didn't recommend that you remove
9	the water from the liner, correct?
10	A. He didn't include those in his notes.
11	Q. He posited that it would disappear once
12	the ponds fills up, correct?
13	A. That is what he indicated in his field
14	notes.
15	Q. And by "filled up," does he mean filled up
16	with coal ash as it's discharged into the pond?
17	MS. NIJMAN: Objection.
18	THE WITNESS: I can't answer what he meant.
19	MS. NIJMAN: Objection to speculation. I'm
20	objecting to speculation. It's fine. She answered.
21	HEARING OFFICER HALLORAN: She can answer. You
22	may proceed.
23	BY MS. DUBIN:
24	Q. So, he reported this issue to you,

Page 20 1 correct? 2 Α. Yes. 3 When did he -- what did he mean by when it Q. 4 will disappear? 5 MS. NIJMAN: Same objection. 6 HEARING OFFICER HALLORAN: She can answer, if 7 she's able. 8 THE WITNESS: I don't know what he meant. 9 BY MS. DUBIN: 10 I would now like you to take a look at the Q. filed change request, Plaintiff's Exhibit 302, and 11 12 Bates page Midwest Gen 28850. HEARING OFFICER HALLORAN: That is still under 13 14 tab 8? 15 MS. DUBIN: No, this is Complainant's 302. 16 This is the field change request. 17 HEARING OFFICER HALLORAN: I thought you mentioned Midwest as well. Thank you. 18 19 MS. DUBIN: I apologize. 20 BY MS. DUBIN: 21 Q. So, this is the field change request from 22 Brieser, and the description of change says, "Cut holes in liner to pump out ground water," correct? 23 24 Α. Yes.

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	Page 21
1	Q. This is what you signed off on, right?
2	A. That's correct.
3	Q. You'll notice the date on this is you
4	approved this on October 30th, 2009, correct?
5	A. Yes.
6	Q. Mr. Gunther reported there was water, I
7	apologize, underneath the liner on October 22nd,
8	2009?
9	A. That's correct.
10	Q. And Midwest Generation went with Brieser's
11	request, correct, or recommendation?
12	A. I wouldn't say it's a recommendation. I
13	recall the station management, project management,
14	and other personnel certainly discussed the options.
15	So, it wasn't based on Brieser's
16	recommendation. It was discussion within the
17	station of the actions to take.
18	Q. Would you mind, please, turning now back
19	tab 8, Midwest Gen Exhibit 507, please. It's the
20	same page you've been on, and just two pages over,
21	which is 8254 three pages over.
22	Now, if you look at the forth bullet
23	listed, it say, "Brieser and Midwest Gen chose to
24	put 6 holes along toward the slope, 2-north end,

Page 22 2-south end, and 2-south end to pump water," 1 2 correct? 3 That's correct. Α. 4 And Brieser mentioned in the bullet above Ο. 5 that when they arrived yesterday, the water beneath 6 the liner had dissipated by 70 percent since last 7 visit two weeks ago. 8 By "last visit two weeks ago," does that 9 mean that NRT hadn't visited the site in two weeks? 10 I can't answer that. Α. I will move on to other questions I had 11 Ο. 12 about these documents. I will just go in order through the binder. 13 So, first off, if you don't mind turning 14 15 to tab 7, which is Midwest Generation Exhibit 506. 16 This is the request for proposal, and you'll notice 17 at the bottom it's dated September 8, 2008, correct? That's correct. 18 Α. 19 And the request for proposal is for No. 2 Ο. 20 and 3 ash pond liner replacement and miscellaneous work followed 2008, correct? 21 22 Α. That's correct. 23 Now, ash pond No. 2 was relined in 2009. Ο. 24 I apologize, ash pond 3 was relined in 2009; is that

Page 23 1 right? 2 Α. I believe so, yes. 3 Ash pond 2 was relined in 2013, correct? Ο. 4 Α. Yes. 5 So, that was five years after the RFP? Q. 6 Α. It appears so. 7 Why did Midwest Generation wait five years Ο. 8 after it issued this RFP to reline pond 2S? From what I recall, there are numerous 9 Α. factors changing the CCR impoundment regulations. 10 11 That was the main thing to kind of see 12 what the new regulations would be, and then ensure 13 that the work that we would be doing would meet 14 those regulations, and not have to go in there again 15 and change the technology that was installed. 16 Does Midwest Gen consider HDPE a superior Ο. 17 liner over Poz-O-Pac? 18 MS. NIJMAN: Objection, foundation with this 19 witness. 20 HEARING OFFICER HALLORAN: Can you rephrase, 21 please? 22 MS. DUBIN: Yes, absolutely. 23 BY MS. DUBIN: 24 So, you E-mailed Mr. Lux back in 2008, as Q.

	Page 24
1	we discussed about some concerns they had about
2	switching over from Poz-O-Pac to HDPE.
3	Assuming that Mr. Lux expressed those
4	concerns, and I think that's what you mentioned
5	yesterday, and so is there a reason that Mr. Lux, or
6	whomever else when you guys decided to reline the
7	pond, why did you switch over from Poz-O-Pac to
8	HDPE?
9	MS. NIJMAN: Objection, speculation, vague and
10	compound.
11	HEARING OFFICER HALLORAN: I agree with the
12	compound, but I think she can answer, if she's able,
13	if you rephrase.
14	MS. DUBIN: Absolutely.
15	BY MS. DUBIN:
16	Q. Why did Midwest Gen switch from Poz-O-Pac
17	to HDPE as its liner?
18	MS. NIJMAN: Objection, misstates testimony.
19	The Poz-O-Pac remained. It's been established.
20	BY MS. DUBIN:
21	Q. Why did Midwest Generation add in HDPE?
22	A. At the time for the CCA compliance.
23	Q. In 2008, why did Midwest Generation add in
24	HDPE, or 2009 was the year of the relining?

Page 25 Again, for compliance with the CCA. 1 Α. 2 What CCA was Midwest Generation involved Ο. 3 in, in 2009? 4 I must have the dates incorrect, then. Α. 5 I'm getting my dates -- I can't recall anymore. 6 So, the CCA might not have been issued by 7 then. I apologize. 8 BY MS. DUBIN: 9 No problem. So, why did Midwest Q. Generation switch over or add in HDPE in 2009? 10 I'm not going to be able to provide an 11 Α. 12 answer to that. 13 0. Next, I would like to -- I have a question 14 about, again, Midwest Generation 507, Bates page 15 8248, that's underneath tab 8. 16 HEARING OFFICER HALLORAN: What's the Bates 17 number again, Ms. Dubin? 18 MS. DUBIN: Sure. It's 8248. 19 HEARING OFFICER HALLORAN: Thank you. 20 THE WITNESS: I'm sorry, what was the Bates 21 number again? 22 BY MS. DUBIN: 23 Absolutely. So, it's tab 8, Midwest, Q. 24 Generation Exhibit 507, Bates page 80248.

Page 26 You'll see the fifth bullet down, it just 1 2 says, "HDPA liner installation." 3 I was wondering with HDPA stood for? 4 I would imagine that is a typo. Α. 5 Okay. I just wanted to make sure I wasn't Q. 6 missing something. So, this is instead HDPA, this meant HDPE? 7 8 Α. I believe so, yes. 9 I would like to now discuss underneath tab Ο. 11, Midwest Generation Exhibit 510. Then if you 10 don't mind going to Bates page 34281. 11 12 The third paragraph down, this is dated, let's see, July 31st, 2013, and this is a field note 13 14 summary from relining pond 2S. 15 Do you call it 2S pond? I've seen it 16 written two ways. 17 Α. 2S or 2 south, either way, S as in Sam. The paragraph starts out, "The first lift 18 Q. 19 on the south slope did not meet a modified proctor 20 of 90 percent, and it was necessary to add water to 21 the slope and recompact with a drum roller. 22 "The water was pumped from the adjacent 23 Erin questioned Dan and the laborers about pond. 24 the decision to use water from the pond. Brieser

Page 27 confirmed that because the waterer truck was 1 2 receiving" --3 HEARING OFFICER HALLORAN: You have to slow 4 down. 5 BY MS. DUBIN: I apologize. It says, "The first lift on 6 Q. 7 the south slope did not meet a modified proctor of 8 90 percent, and it was necessary to add water to the 9 slope and recompact with a drum roller. 10 "The water was pumped from the adjacent Erin questioned Dan and the laborers about 11 pond. 12 the decision to use water from the pond. Brieser confirmed that because the water truck was receiving 13 14 maintenance, the water from the pond would be 15 suitable. 16 "A hose was used from the pump to bring 17 water from the adjacent pond to the south slope. After watering and rerolling the slope, the density 18 19 was greater than 90 percent modified proctor." 20 Ms. Maddox, when they say the water was 21 pumped from the adjacent pond, is this water that 22 was mixed with coal ash? 23 I don't recall any of this. Α. So, I 24 wouldn't assume it would be from 2 south. That is

	Page 28
1	speculation. I really don't remember any of this.
2	Q. What ponds were adjacent to this one?
3	A. 3 south is adjacent.
4	Q. And what did pond 3 south store?
5	A. Coal combustion byproducts from operation
6	of unit 3 and 4 boilers and water.
7	Q. Now, if you don't mind, within this same
8	exhibit, which is again is Exhibit 510, Midwest Gen
9	510, if you go over to Bates page 34311, this is
10	attachment B1, boring source samples.
11	MS. NIJMAN: Hang on.
12	BY MS. DUBIN:
13	Q. There appears to be some borings in here.
14	For example, if you go to page 34317; is that
15	correct? If not, if you don't mind letting me know
16	what this is.
17	A. I don't believe this is a boring; but,
18	again, it's not my expertise. It doesn't appear to
19	be a boring.
20	Q. So, if you look there's that rectangle
21	there, a text on page 34317, and then it's separated
22	down the middle with a line.
23	If you don't mind looking just above that
24	line, it says, "Material description, black

Page 29 cinder-sand-fly ash." 1 2 Where was this material being collected from? 3 I don't recall at all. 4 Α. 5 Q. Did you review this document? 6 Α. I did not. 7 I have one more question. Would you mind 0. 8 going through Midwest Gen Exhibit 511, which is 9 underneath tab 12 of the binder. It's the map, and 10 thank you guys again for printing out a larger 11 version of this map. 12 Now, if you look inside these two areas and, for the record, what are the different 13 outlines -- you'll see dotted outline here on the 14 15 left. 16 Is that pond 2S or 2S pond? 17 Α. Oh, no. Is that 1 south? That's 1 south, 18 correct? 19 You'll see kind of a rectangle in between Ο. 20 the other pond. In that rectangle is the retention 21 pond, correct? 22 Α. Retention basin, retention pond, yes. 23 Ο. Next to that is the 1 north pond? 24 That's correct. Α.

	Page 30
1	Q. Now, the text inside of both 1 north pound
2	and 1 south pond says, "Area within 20-foot radius
3	of height shall be cut to 582.5 elevation. Pond
4	bottom shall be graded from .5 percent to 2 percent
5	to direct water to the outlet."
6	No, when we're discussing the bottom of
7	the pond being graded, does that refer to grading
8	the ash?
9	A. It could. Or with the ash that is
10	remaining on the pond is slag here for 1 north and 1
11	south; but, yes.
12	MS. DUBIN: That's all the questions I have.
13	HEARING OFFICER HALLORAN: Thank you.
14	Ms. Nijman, when you are ready, you may proceed.
15	MS. NIJMAN: Thank you. Let's go back
16	HEARING OFFICER HALLORAN: We're on the record.
17	Do you want to go off?
18	MS. NIJMAN: I'm ready.
19	HEARING OFFICER HALLORAN: Proceed, Ms. Nijman.
20	Thank you.
21	MS. NIJMAN: Thank you.
22	REDIRECT EXAMINATION
23	BY MS. NIJMAN:
24	Q. Turning to tab 8 in the binder, Ms. Dubin

Page 31 directed your attention to 8254. 1 2 Α. Okay. 3 Do you see in the second bullet there, Ο. 4 would you read what it states? 5 In the field comments section? Α. 6 Ο. Yes. I'm sorry, in the field comments 7 section. 8 Α. "Brieser on site since yesterday to pump 9 water beneath liner along base of side slopes." 10 So, what is your understanding what Q. happened with the water that was collected under the 11 12 liner? 13 Α. It was pumped out. 14 Ο. Thank you. Turning to tab 11, Bates 15 34271. 16 Α. Okay. 17 Ο. Ms. Dubin had drawn your attention again to the field comments section in the third bullet, 18 19 but failed to point you to the note of the 20 discussion of the boring. 21 Let me back up a little bit and ask you do 22 you know what's going on here with the cores? 23 Α. I don't. 24 Okay. If you would read the note under Q.

Page 32 the sub-bullet underneath, "Terry Anderson to 1 2 discuss cores"? 3 Bottom of third layer of Poz-O-Pac not Α. encountered." 4 5 What does that mean to you? Q. 6 MS. DUBIN: Objection. Calls for speculation. 7 HEARING OFFICER HALLORAN: She may answer, if 8 she's able. Overruled. 9 THE WITNESS: That they did not reach it. BY MS. NIJMAN: 10 Why would they have not reached it? 11 Is Ο. 12 the core not deep enough? Most likely it wasn't there. 13 Α. 14 Ο. It says the bottom of the third layer, not 15 the top. 16 MS. DUBIN: Objection, leading the witness. 17 HEARING OFFICER HALLORAN: Ms. Nijman, if you 18 could rephrase. 19 BY MS. NIJMAN: 20 Q. Do you see where it says, "The bottom of 21 the third layer"? 22 Α. Yes. 23 What does that suggest to you? Q. 24 MS. DUBIN: Objection, leading the witness,

Page 33 calls for speculation. 1 2 HEARING OFFICER HALLORAN: Overruled. She may 3 answer, if she's able. 4 THE WITNESS: It says they were expecting a 5 third layer of Poz-O-Pac, the bottom of it. Ι 6 really don't know. 7 BY MS. NIJMAN: I'll note on the second boring as well, it 8 0. says -- read the note at the bottom of the second 9 subheading, the sub-bullet, I mean. 10 11 Okay. Yes, "Bottom" -- of the same Α. 12 comment, same note, "Bottom of third layer of Poz-O-Pac not encountered." 13 14 Ο. Thank you. Ms. Dubin also directed you to 15 the same Exhibit NWG510 at Bates Midwest Gen 34281. 16 Α. Okay. 17 Q. And I believe you said you didn't know, 18 but you assumed water was coming from 3 south 19 adjacent? 20 Α. Correct. 21 Q. So, do you know if 3 south had ash in it 22 at the time of this note? 23 Α. It could. 24 Q. But you don't know?

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 34 1 I don't know. Α. 2 Turning to still Exhibit MWG510, page Q. 3 34317, I believe you stated you didn't know what this was? 4 5 Α. Correct. You don't know if it was material from the 6 Ο. 7 pond? 8 MS. DUBIN: Objection, leading the witness. 9 HEARING OFFICER HALLORAN: Ms. Nijman, could 10 you rephrase, please? 11 MS. NIJMAN: Certainly. 12 BY MS. NIJMAN: 13 Do you know if it was material from the Ο. 14 pond? 15 The description doesn't appear to be Α. 16 anything that was in the pond. 17 Ο. Do you know if it was material outside the 18 pond? 19 MS. DUBIN: Objection, calls for speculation. 20 The witness has established she's not familiar with this boring, or whatever this is. 21 22 HEARING OFFICER HALLORAN: What's good for the 23 goose is good for the gander. I allowed you some 24 speculation as well.

	Electronic Filing: Received, Clerk's Office 10/31/2017
	Page 35
1	MS. DUBIN: That's fair.
2	HEARING OFFICER HALLORAN: Thank you.
3	THE WITNESS: Sorry. Can you repeat the
4	question?
5	BY MS. NIJMAN:
6	Q. Do you know where this sample came from at
7	all?
8	A. No, I really don't.
9	Q. Thank you. Turning to tab 11, which is
10	Exhibit Midwest Gen 510. If you would go to page
11	34426, Bates No. 34426, and then two pages over is
12	the map we were looking at before, which would be
13	34428?
14	A. Yes.
15	Q. Ms. Dubin drew your attention to the
16	little bubble on the side of this map, and asked you
17	about the layers, and you see on the top of the
18	boring it says, "6 inches Poz-O-Pac layer"?
19	A. Yes.
20	Q. Do you know if that is consistent with
21	what Rebecca Schwartz talked about in her initial
22	memo, a six-inch layer, and that's Exhibit 500?
23	A. So, Exhibit 500, if we look at Bates 42,
24	ash pond south ash pond 2, which is Bates number

Page 36 8, Midwest Gen No. 8, you see where she's talking 1 2 about the six six-inch lifts that you discussed 3 yesterday? 4 So, this -- and going back to Bates Q. Yes. 5 34428, the map, the first layer is a six-inch 6 Poz-O-Pac layer. Do you see that? 7 I see that, correct. Α. 8 And then the second layer is a six-inch Ο. 9 Poz-O-Pac layer; do you see that? 10 Α. I do. That is consistent with what Ms. Schwartz 11 Ο. wrote in Exhibit 500. 12 13 Is that consistent with what she wrote in Exhibit 500? 14 15 MS. DUBIN: Objection, leading the witness. 16 HEARING OFFICER HALLORAN: Sustained. If you 17 could rephrase, Ms. Nijman. 18 BY MS. NIJMAN: 19 Can you see whether this is consistent Ο. 20 with the other document, Midwest Gen Exhibit 500? 21 Α. It's different terminology than the 22 Ms. Schwartz documentation. 23 Ο. How so? 24 She's using the term "lift." That's not Α.
Page 37 something -- a terminology I would use. 1 I'm more 2 familiar with the map here in Exhibit 510 of layers. 3 So, it appears it's different. 4 As far as the term layer versus lift? Q. 5 Layer versus lift, correct. Α. Do you recall when we talked yesterday you 6 Q. 7 said those were probably the same thing? 8 MS. DUBIN: Objection, leading the witness. 9 HEARING OFFICER HALLORAN: Sustained. She 10 answered. THE WITNESS: Yes, lift and layers are similar. 11 12 BY MS. NIJMAN: Do you see in this little bubble on Bates 13 0. 14 34428, it says, "End of boring." 15 Do you see that? 16 Α. I do. 17 MS. DUBIN: Objection, leading the witness. 18 HEARING OFFICER HALLORAN: This is foundation 19 for the question. 20 MS. NIJMAN: Thank you. 21 THE WITNESS: I see that, yes. 22 BY MS. NIJMAN: 23 Do you know whether end of boring means Ο. 24 the end of the Poz-O-Pac?

Page 38 I couldn't answer that. 1 Α. 2 Thank you. Q. 3 MS. NIJMAN: That's all I have right now. 4 Thank you. 5 HEARING OFFICER HALLORAN: Ms. Dubin? MS. DUBIN: That's all I have. 6 7 HEARING OFFICER HALLORAN: Thank you. 8 Ms. Maddox, you're early. You can go. Let's go off 9 the record. 10 (Discussion off the record.) 11 HEARING OFFICER HALLORAN: We're going to go 12 back on the record, everyone. Thank you. We're 13 back on the record. It's approximately 10:00 a.m. 14 15 Complainant's case in chief continues. 16 MR. WANNIER: Complainant moves to call Richard 17 Gnat as an adverse witness. 18 HEARING OFFICER HALLORAN: Could you identify 19 yourself, please? 20 MR. WANNIER: I'm sorry. My name is Gregory 21 Wannier, counsel for Sierra. HEARING OFFICER HALLORAN: Wannier? 22 23 MR. WANNIER: Wannier. 24 HEARING OFFICER HALLORAN: Thank you.

	Page 39
1	MS. GALE: Mr. Hearing officer, they moved to
2	call him as adverse witness. I'm just wondering
3	what their basis is.
4	HEARING OFFICER HALLORAN: We're going to
5	listen to some questions. It's a little early to
6	call him as an adverse witness. Establish some
7	foundation first.
8	MR. WANNIER: We can establish. Does he need
9	to be sworn in?
10	HEARING OFFICER HALLORAN: Yes. Raise the your
11	right hand and the court reporter will swear you in.
12	(Witness was duly sworn.)
13	HEARING OFFICER HALLORAN: Thank you. You may
14	proceed.
15	RICHARD GNAT,
16	called as an adverse witness herein, after having been first
17	duly sworn, was examined and testified as follows:
18	DIRECT EXAMINATION
19	BY MR. WANNIER:
20	Q. Thank you. First, can you please state
21	your name, for the record?
22	A. My name is a Richard Gnat, G-n-a-t, like
23	the bug.
24	Q. Okay. And, Mr. Gnat, who do you work for?

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 40 I work for KPRG & Associates. 1 Α. What is KPRG & Associates? 2 Q. 3 We're an environmental consulting group. Α. 4 Okay. And what is your role at KPRG & Ο. Associates? 5 6 Α. I'm a principal and part owner of the 7 firm. 8 Ο. Okay. You said environmental consulting. 9 What type of environmental consulting? 10 We do a variety of environmental Α. consulting; however, we specialize in subsurface 11 12 consulting soils and ground water. Okay. And what is the work -- when you 13 0. 14 work on subsurface, what is the work that you're 15 doing exactly? 16 It depends on the project. Our work Α. 17 includes characterizing soils, characterizing the ground water flow conditions. It depends on the 18 19 project. 20 Okay. And you understand that we're here 0. 21 talking about Midwest Generation. 22 Can you describe the work that you've done 23 for them? 24 We do a variety of work for Midwest Α.

Page 41 Generation, environmental work, everything from 1 2 ground water sampling and data reporting through 3 assisting with other environmental items as 4 requested. 5 What is the relationship -- what is your Ο. 6 business relationship with Midwest Generation 7 exactly? Midwest Generation is one of our clients. 8 Α. 9 Okay. So, can you just -- you would call Q. yourself a -- what would you call yourself in 10 relation to that, a consultant, a contractor? 11 12 I am a consultant of theirs. Α. Okay. And how long have you been working 13 Ο. with Midwest Generation? 14 15 I have within working with Midwest Α. 16 Generation since probably around 2000, 2001, when I 17 was with the prior company. 18 Q. Okay. 19 MR. WANNIER: We would at this time call 20 Mr. Gnat as an adverse witness. 21 HEARING OFFICER HALLORAN: Ms. Gale? 22 MS. GALE: I guess I would request a basis for 23 that. Since he is a consultant for Midwest 24 Generation doesn't mean he's adverse in this matter.

Page 42 If I may ask him a follow-up question. 1 2 HEARING OFFICER HALLORAN: You can ask voir 3 dire. 4 VOIR DIRE EXAMINATION 5 BY MS. GALE: 6 Ο. Do you have other clients? 7 Α. Yes, we do. 8 So, you work for other people, other 0. 9 companies? 10 Α. Yes, we do. So, Midwest Generation is not your only 11 Ο. client? 12 13 Α. By far, no. 14 Ο. How many other clients do you have? 15 Depending on the year, but we've got a Α. 16 steady 50, 60 clients. 17 MS. GALE: Again, I'm failing to see the basis he is an adverse witness in this matter. 18 19 HEARING OFFICER HALLORAN: I think he has 20 sufficient beneficial interest. He's a -- Midwest 21 is his client. He's been working with them for at 22 least -- well, maybe not with that company -- from 23 the year 2000, 2001. 24 So, I'm going to grant Mr. Wannier's

	Page 43
1	motion to treat Mr. Gnat as an adverse witness. So,
2	overruled. Thank you.
3	MR. WANNIER: Thank you, your Honor.
4	BY MR. WANNIER:
5	Q. Mr. Gnat, going back to the type of work
6	you've done, the subsurface soil analysis, what sort
7	of analysis do you generally what analyses have
8	you run in your work with Midwest Generation?
9	MS. GALE: Objection, misstates testimony. He
10	said he did sampling.
11	HEARING OFFICER HALLORAN: Sustained.
12	MR. WANNIER: I can rephrase.
13	BY MR. WANNIER:
14	Q. In your work for Midwest Generation, what
15	can you describe, actually, in a little more detail,
16	the work that you've done for Midwest Generation?
17	A. It depends on the project. So, if you ask
18	me what type of project, I can tell you what we're
19	doing with evaluating the soil.
20	Q. I guess let me ask this: Have you ever
21	done three-dimensional modeling for Midwest
22	Generation?
23	A. We have done three-dimensional ground
24	water modeling; however, that is a very specialized

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	Page 44
1	field. Our company uses an associate firm that
2	specializes in ground water modeling.
3	When we have an actual project that
4	requires three-dimensional ground water modeling, we
5	will contract with that firm to provide that
6	expertise as part of our team.
7	Q. When did you do that three-dimensional
8	modeling?
9	A. We did that modeling back in the it
10	started it is a long process, probably in the
11	2006 time frame.
12	MS. GALE: I'm going to object, to the extent
13	are you talking about generally, or are you talking
14	about the stations that are subject to this
15	complaint?
16	MR. WANNIER: I can clarify, your Honor.
17	HEARING OFFICER HALLORAN: Just object and
18	stated your grounds.
19	MS. GALE: Objection, vague.
20	HEARING OFFICER HALLORAN: Okay, thank you.
21	Sustained. Rephrase.
22	BY MR. WANNIER:
23	Q. Have you ever done three-dimensional
24	modeling for Midwest Generation, with respect to the

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	Page 45
1	issue in this proceeding?
2	A. No, we have not.
3	Q. Okay, thank you. I'm going to be placing
4	before you Plaintiff's Exhibit 201, which includes a
5	letter from you, as well as geotechnical analysis of
6	soil surrounding settling basins of ponds?
7	HEARING OFFICER HALLORAN: Keep your voice up.
8	MR. WANNIER: Understood, your Honor.
9	BY MR. WANNIER:
10	Q. Mr. Gnat, do you recognize this document?
11	A. Yes, I do.
12	Q. Can you describe it, please, for the
13	record?
14	A. This is a summary letter dated October 13,
15	2005, regarding geotechnical analysis of soil
16	surrounding settling basin/ponds.
17	Q. Okay. Looking at that first page, do you
18	see where there are six bullet points two of which
19	have been redacted?
20	A. Yes.
21	Q. And do you see Waukegan, Will County
22	Joliet No. 29 and Powerton station on the bullet
23	points?
24	A. Yes.

Page 46 Does this mean that this exhibit includes 1 Ο. 2 your geotechnical analysis of those four sites? 3 That is not necessarily correct. Α. What 4 this includes are the geotechnical -- are the borings that we did to collect the soil samples that 5 6 were then analyzed by geotechnical laboratory. 7 Q. Understood. Could you please turn to page 8 Bates page MWG131524275? 9 I'm sorry, if you could first turn to 2473, two pages away. Is this a map of the Waukegan 10 site to your knowledge? 11 12 Yes, it appears to be. Α. 13 Ο. And do you see on the map it has five labels WS-DT-1 and then 2345? 14 15 Α. Yes. 16 Are those the boring site locations that Q. 17 were done for this report at Waukegan, to your 18 knowledge? 19 I believe so, yes. Α. 20 Okay. If you could turn to 24275 now? Q. 21 Α. Yes. 22 Q. Looking at the top, does this appear to be 23 a boring log of well WS or site WS-GT-1. 24 Α. Yes, it does.

	Page 47
1	Q. Okay. Do you see in the middle of the
2	column where it says "slag"?
3	A. Yes. It says, "Slag black medium core
4	sand and gravel and some bottom ash."
5	Q. Slag is a is slag a form of coal ash?
6	A. My understanding is that it depends on the
7	way it was burned, the type of coal and the type of
8	burners. That will determine how that material, the
9	combustion of that material, results in. So, it may
10	be a coal ash.
11	Q. Is slag a coal combustion byproduct?
12	A. It may be.
13	Q. If you could turn to 24277, and this
14	appears to be a boring log for site WSGT3, correct?
15	A. That is correct.
16	Q. Again, looking at the description column,
17	turn to the second row.
18	Do you see where it says, "Bottom ash
19	black and gray, some sand and gravel dry"?
20	A. Yes.
21	Q. Okay. Turning to 24278.
22	A. That also
23	Q. I'm sorry?
24	A. To say that is on the log, as well as

Page 48 other layers above and below that layer that don't 1 2 say bottom ash gray and black. They say, "Sand fine to medium black and brown" or "Sand and gravel" as 3 well. 4 5 MR. WANNIER: Move to strike as nonresponsive, 6 your Honor. 7 HEARING OFFICER HALLORAN: Overruled. BY MR. WANNIER: 8 9 Turning to 24278, do you see -- again, Q. 10 does this appear to be WSGT4? 11 Yes, it does. Α. 12 You see in the second row under 0. description where it says, "Bottom ash and sand and 13 14 gravel, mixture very moist"? 15 Yes, I do. That is one of the -- its on Α. 16 the log, yes. 17 Ο. Understanding that there are multiple layers that have been tested in this boring --18 19 actually, turn to another one. Turn to the fifth 20 line. 21 Do you see where it says, "Bottom ash 22 black granular medium to core, sand and gravel 23 slightly moist"? 24 There is also another layer in Yes, I do. Α.

Page 49 1 this log. 2 Turning to 24279, does this appear to be a Q. 3 log of boring WSGT5? 4 Yes, it does. Α. 5 And do you see in the third row under the Ο. description where it says, "Bottom ash fine to 6 7 medium sand and silt, brown and some gray, some 8 slag, slightly moist"? 9 HEARING OFFICER HALLORAN: Keep your voice up, 10 please. 11 MR. WANNIER: I will, thank you. 12 THE WITNESS: Yes, I do. BY MR. WANNIER: 13 Do you see in the line directly below that 14 Q. 15 where it says, "Bottom ash black granular medium to 16 core sand and gravel, slightly moist"? 17 Α. Yes. 18 Q. I understand there are other layers in 19 this boring? 20 That is correct. Α. Can you turn to 242 -- we won't run 21 Q. 22 through all of them, but let's turn to 24282. 23 Α. Okay. 24 Does this appear to be a map of the, to Q.

Page 50 your knowledge, of the Will County facility? 1 2 Yes, it does. Α. 3 Okay. And, again, do you see in that map Ο. 4 where they have delineated the location of multiple 5 boring locations? 6 Α. Yes. And we'll just do one from the site at --7 Ο. 8 can you turn to 24284? 9 Α. Okay. 10 Do you see in the third line where it Q. 11 says, "Slag and bottom ash dark and gray, medium to 12 core sand, little silt, dry to slightly moist"? Yes, that is the very bottom one foot 13 Α. 14 layer of the whole boring. 15 Okay. And can you please turn to 24292? Ο. I'm sorry, 24290. 16 17 Α. Okay. 18 Does this appear to be a map of the Joliet Q. 19 facility, to your knowledge? 20 Yes, it does, Joliet 29. Α. 21 Q. And, again, to make this go guicker, you 22 see the map of the boring sites there? 23 Α. Yes. 24 Okay. We'll just turn to 24302 -- excuse Q.

Page 51 1 me, 24300. 2 Α. 24300, okay. 3 Does that appear to be a map of the power Ο. 4 plant facility with boring logs on it? 5 Α. Yes, it does. Okay. Do you have any reason to doubt the 6 Ο. 7 accuracy of any of the boring logs in this report? 8 Α. No, I don't. 9 We will -- your Honor, I move for Ο. 10 admission of Plaintiff's Exhibit -- Complainant's 11 Exhibit 201. 12 HEARING OFFICER HALLORAN: Ms. Gale? 13 MS. GALE: No objection. 14 HEARING OFFICER HALLORAN: Thank you. 15 Complainant's 201 is admitted. 16 (Complainant Exhibit No. 201 was 17 admitted into evidence.) 18 MR. WANNIER: We're not going to be introducing 19 -- I'm sorry, my counsel spoke to me. 20 I'm sorry, it was admitted, right? MS. GALE: 21 HEARING OFFICER HALLORAN: Exhibit 201 is 22 admitted. Evidently, they're not going to offer 23 200. 24 MS. GALE: Thank you.

	Page 52
1	MR. WANNIER: We would like to introduce
2	Complainant's Exhibit 202, which is Bates range
3	24387 to 24392. This is another letter from the
4	witness to Maria Race.
5	HEARING OFFICER HALLORAN: R-a-c-e.
6	BY MR. WANNIER:
7	Q. Mr. Gnat, do you recognize this document?
8	A. Yes.
9	Q. Can you please describe it for the record?
10	A. The document is regarding a reissuance of
11	Figure 4-1 for the geotechnical report.
12	There must have been a relocation on one
13	of the maps on the map for Joliet 29, and we're
14	issuing a corrected version.
15	Q. Thank you. Can you please turn to Bates
16	page 24388?
17	A. Okay.
18	Q. Does this, again, appear to be a map of
19	the Joliet site?
20	A. Joliet 29.
21	MR. WANNIER: Complainant would move for the
22	issue of complainant's 202.
23	MS. GALE: No objection.
24	HEARING OFFICER HALLORAN: Complainant 202 is

Page 53 1 admitted. 2 (Complainant Exhibit No. 202 was admitted into evidence.) 3 BY MR. WANNIER: 4 Complainants are now placing before you 5 Q. 6 Complainant 203, which is a geologic log of 7 muddering wells 8 and 9 at Waukegan. 8 Do you recognize this document, Mr. Gnat? 9 Α. Yes, this is one of our boring logs as 10 well as construction summaries. 11 Okay. Do you see -- turning to page Ο. 12 45649, do you see -- strike that. 13 Does this appear to be a geologic log of muddering well 9? 14 15 Yes, it does. Α. 16 Do you see in the 3rd line under the Q. 17 description where it says, "Fill black slag"? 18 Yes, I do. That is a layer within the Α. 19 overall 18-foot boring. This is a single layer 20 within a larger column of an 18-foot boring. 21 MR. WANNIER: Your Honor, can I just have that 22 last part read back for the record to make sure my 23 words were captured in the transcript? 24 HEARING OFFICER HALLORAN: His answer or your

Page 54 1 question? 2 MR. WANNIER: My question. 3 HEARING OFFICER HALLORAN: Could you please 4 read back his question, please? Thank you. (Said record was read.) 5 6 HEARING OFFICER HALLORAN: Thank you. 7 MR. WANNIER: Thank you, your Honor. 8 Complainants would move for the admission of 9 complainant Exhibit 203. 10 MS. GALE: No objection. 11 HEARING OFFICER HALLORAN: Thank you. Ms. 12 Gale? 13 MS. GALE: No objection. 14 HEARING OFFICER HALLORAN: Complainant's Exhibit 203 is admitted. 15 16 (Complainant Exhibit No. 203 was admitted into evidence.) 17 18 MR. WANNIER: Complainants are now placing 19 before the witness a group exhibit. We have 20 discussed this with defendants. This is the first 21 of several that will we will be introducing in a 22 row. 23 This is group G, and it includes 24 Complainant's Exhibit Nos. 204G through 209G.

Page 55 1 MS. GALE: Are you going to describe them? 2 MR. WANNIER: Thank you. These are Joliet CCR 3 lab results conducted by Test America. BY MR. WANNIER: 4 5 If you can let me know when you're ready Q. 6 to proceed. 7 Yes, these are the analytical reports from Α. Test America. 8 9 Ο. Okay. Sorry. So the record is clear, you 10 recognize these documents? 11 Yes, I do. Α. Do these contain lab water or lab data and 12 Ο. ground water monitoring results from the Joliet 13 14 site? From Joliet No. 29? 15 Α. Joliet 29. 16 Q. 17 Α. CCR sampling, that is correct. 18 Okay. Did you rely on these reports in Q. 19 conducting your analysis for Midwest Generation? 20 MS. GALE: Objection, foundation. He never 21 said he did any analysis. 22 HEARING OFFICER HALLORAN: Can you rephrase, 23 please? 24

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 56 1 BY MR. WANNIER: 2 Why is your name not on this report? Q. 3 Sorry. Why is your name on this report? 4 I misspoke. 5 Α. Because we collect the ground water 6 samples for the CCR monitoring that is done at this 7 station. 8 Ο. Okay. Have you shared these samples with 9 Midwest Generation as part of your work? 10 Yes, Test America is contracted directly Α. to Midwest Generation, and we use them through their 11 12 contract, and they provide us copies with the 13 report. 14 Ο. Okay. Do you have any reason to doubt the 15 accuracy of any of these lab results? 16 When we receive the lab results, we Α. No. 17 look at any potential qualifiers and use the data to provide summary tables. 18 19 Okay. When you're looking at this data, Ο. 20 do you analyze trends in the well data over time? 21 MS. GALE: Objection. Mr. Gnat does this work 22 under privilege, attorney-client privilege. Any 23 analysis related to it is privileged. 24 HEARING OFFICER HALLORAN: Could you read the

Page 57 1 question back, please? 2 (Said question was read.) 3 MS. GALE: I further object. He's being called 4 as a fact witness, not an expert witness in this 5 matter. He's here to simply talk about the facts in 6 this data. MR. WANNIER: Your Honor, I'm not asking for 7 8 the specifics of his analysis, whether it's privileged or not. This is just asking whether he 9 10 does this analysis. 11 HEARING OFFICER HALLORAN: I agree. Overruled. 12 You may answer, if you are able. 13 MS. GALE: If I may, I'm going to direct my 14 client not to disclose any privileged information 15 that he may have related to this information. 16 HEARING OFFICER HALLORAN: The question, I 17 don't think, calls for privileged information. 18 MS. GALE: Understood. 19 THE WITNESS: On the CCR data, I do not 20 remember if we include -- what we would do is 21 provide time versus concentration curves to Midwest 22 Generation. 23 I do not remember if we provided that for 24 the CCR data or not.

	Electronic Filing: Received, Clerk's Office 10/31/2017
	Page 58
1	BY MR. WANNIER:
2	Q. Just to clarify, when you say "provide
3	time versus concentration curves," is that anything
4	more than simply creating a chart that represents
5	data you received?
6	A. That is correct.
7	Q. Sorry. Are you saying you have done more
8	than simply provide a chart, or you are only
9	providing a chart?
10	A. I am taking the data that's provided to us
11	and my company develops the chart and provides the
12	chart to our client.
13	Q. Okay. We can talk about those charts a
14	little later. I believe they are in future
15	exhibits, but I just want to understand how you are
16	creating these charts.
17	Are you simply taking concentration and
18	data points and putting them in a chart?
19	MS. GALE: I object here, just for vagueness.
20	Are you asking about the CCR data, or are you asking
21	about the CCA data?
22	HEARING OFFICER HALLORAN: Sustained.
23	Rephrase, please.
24	

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 59 1 BY MR. WANNIER: 2 You're looking at a series of CCR reports, Q. 3 correct? 4 Α. Correct. 5 Now, when you're looking at -- when you Ο. 6 are creating charts of the CCR data for Midwest 7 Generation, and you said you create these charts, do 8 you do anything -- do you create CCR charts? 9 Α. That is what I wanted to clarify. Ι believe I said I do not remember if we do that for 10 11 the CCR data or not. 12 And then I just basically described, in general, what a time versus concentration chart is. 13 14 Ο. Okay, understood. Can you just explain 15 the distinction between CCR reports and other 16 reports, for the record? 17 Α. Sure. MS. GALE: Objection, vague. 18 19 HEARING OFFICER HALLORAN: Overruled. You can 20 answer, if you're able. 21 THE WITNESS: We are at Joliet 29, which is 22 what I have in front of me. We do sampling that we 23 call CCR sampling, which is a sampling program that 24 has been developed by Midwest Generation with

	Page 60
1	compliance of the new federal rule for coal
2	combustion byproduct ponds.
3	That's the CCR rule. So, we have a
4	program called CCR sampling, which is the data you
5	provided me.
6	We also do what we call CCA sampling,
7	which is a sampling that's done on a quarterly basis
8	in accordance with the compliance commitment
9	agreement that was signed with IEPA.
10	Q. Understood. Thank you.
11	MR. WANNIER: Complainants would move for
12	admission of Complainant's Exhibits 204G through
13	209G?
14	MS. GALE: We object to the admission of the
15	CCR data, which is Exhibits 204G to 209G, because
16	it's prejudicial and cumulative evidence.
17	The CCR data is collected pursuant to the
18	new federal rules. I actually have complaints.
19	They also tend to introduce the CCA data as well
20	which is collected persaunt to the Illinois EPA
21	requirement.
22	The CCR data and CCA data is collected
23	from the exact same wells at Joliet 29 and collected
24	at the exact same time. It is prejudicial to

Page 61 Midwest Generation to include both sets of data 1 2 which are virtually identical to each other. 3 HEARING OFFICER HALLORAN: I think the Board 4 can sort that out. It's not like a jury. Ι 5 overrule your objection. Complainant's Exhibit 204G 6 through 209G is admitted over objection. 7 (Complainant Exhibit Nos. 204G through 209G was admitted into 8 9 evidence.) 10 I move to strike any testimony MS. GALE: 11 related to the CCR data. 12 MR. WANNIER: Your Honor, just to explain, for 13 the record -- here, part of the reason we're 14 including this is that although CCR data is taking 15 contemporaneously with CCA well data, the results 16 for the CCR are measured as total recoverable 17 concentrations; and the results in CCA data are measured in dissolved, which are similar, but not 18 19 exact, figures. 20 We are using both to create a more 21 complete picture of the series of ground water 22 results at the time. 23 If I may, Mr. Halloran, respond to MS. GALE: 24 The method of testing is a marginal that.

Page 62 1 My understandings is the only difference. 2 difference is one step taken in the field, but that 3 analysis, when the samples get to the laboratory, is 4 the exact same. 5 To further explain our reasoning, our 6 understanding is that the complainants intend to use 7 each of the same results. So, the same results from CCA data in second quarter, for example, and CCR 8 9 data in second quarter of 2016 to include as individual evidence of alleged the violations, and 10 it's very prejudicial to Midwest Generation. 11 12 In effect, Midwest Generation is being penalized for following two different agencies' 13 14 requirements. 15 HEARING OFFICER HALLORAN: The Board will take

16 note of your objection in the record. Thank you.
17 It goes to the weight, not the admissibility. But,
18 thank you. You may proceed.

19 BY MR. WANNIER:

Q. I can put that aside. Plaintiffs are now
placing before you Group Exhibit H, which
Complainant's Exhibits 210H through 215H.
MS. GALE: Before we get into it, I'm going to
continue to object to this group exhibit, except for

	Electronic Filing: Received, Clerk's Office 10/31/2017
	Page 63
1	wells 17, 18 and 19.
2	MR. WANNIER: We have the same response, your
3	Honor.
4	HEARING OFFICER HALLORAN: Hold on, counsel. I
5	was hoping we would figure it out long before today.
6	MR. WANNIER: Your Honor
7	HEARING OFFICER HALLORAN: Hold on, please.
8	Thank you. Ms. Gale, you want an anticipatory or
9	objection to which ones, which wells, which exhibit?
10	MS. GALE: This is the Powerton CCR data
11	Exhibit 210H, 2111, 212, 213. I'm missing one.
12	214, 215, as I've discussed with counsel previously.
13	We have discussed this.
14	HEARING OFFICER HALLORAN: I'm sorry, what did
15	you say?
16	MS. GALE: We have discussed this.
17	MS. DUBIN: I object to the admission of this
18	data as accumulative and duplicative, as it relates
19	to the wells, except monitoring wells 17, 18 and 19
20	because those wells are not reflected in the CCA
21	data.
22	HEARING OFFICER HALLORAN: Your objection is so
23	noted but overruled. The Board will take a look at
24	it and figure something out. Thank you.

Page 64 You haven't offered it 1 You may proceed. 2 yet? 3 MR. WANNIER: I haven't offered it yet. BY MR. WANNIER: 4 5 Mr. Gnat, you recognize these documents? Q. 6 Α. Yes, I do. 7 Are these CCR lab results for the Powerton 0. 8 facility? 9 Α. Yes, they are. 10 Do you recall the series of questions I Q. asked you regarding the Joliet lab reports, CCR lab 11 12 reports. MS. GALE: Objection, vague, compound. 13 HEARING OFFICER HALLORAN: Sustained. 14 15 MR. WANNIER: We can discuss it. 16 BY MR. WANNIER: 17 Ο. These reports contain ground water monitoring samples from wells at the Powerton 18 19 facility, correct? 20 Α. CCR data samples, yes. 21 Q. CCR data samples, thank you. Do you have 22 any reason to doubt the accuracy of any of these 23 results? 24 Α. No.

	Page 65
1	MR. WANNIER: Complainant's move for
2	introduction of Complainant's Exhibit 210H through
3	215н.
4	HEARING OFFICER HALLORAN: You can state your
5	objection, again, Ms. Gale, or so noted on the
6	record.
7	MS. GALE: As I said earlier, we object to the
8	admission of these reports, except for the results
9	for MW17, 18, 19, because they are duplicative and
10	cumulative evidence.
11	HEARING OFFICER HALLORAN: Thank you.
12	Overruled. Complainant's Group Exhibit 210H through
13	215H is admitted.
14	(Complainant Exhibit No. 210H
15	through 215H were admitted into
16	evidence.)
17	BY MR. WANNIER:
18	Q. Mr. Gnat, we are placing before you now
19	Complainant Exhibits 216I through 220I, as part of
20	Group Exhibit I, which we would present our CCA lab
21	results of the Waukegan facility monitoring wells 8
22	and 9.
23	Do you recognize these documents?
24	A. Yes, I do. However, I would like to

Page 66 1 clarify that wells 8 and 9 are not part of CCA 2 sampling. 3 Ο. Sorry, can you say that again? 4 Α. Wells 8 and 9 are not part of CCA 5 sampling, which is what you indicated. 6 Ο. I can correct that on the record. These 7 are lab results from monitoring wells 8 and 9, but 8 they are not part of the CCA sampling; is that 9 correct? 10 That is correct. I'll check and verify Α. that for you. Yes, this is the data for 8 and 9. 11 12 Okay. Do you have any reason to doubt the Ο. accuracy of any of this data? 13 No, I do not. 14 Α. 15 Complainant's move for admission MR. WANNIER: 16 of Complainant Exhibit 216I through 220I. 17 HEARING OFFICER HALLORAN: Ms. Gale? 18 MS. GALE: No objection. 19 HEARING OFFICER HALLORAN: Thank you. 20 Complainant Exhibit 216I through 220I is admitted. 21 (Complainant Exhibit Nos. 216I 22 through 220I were admitted into 23 evidence.) 24

Page 67 1 BY MR. WANNIER: 2 Mr. Gnat, we are placing before you Q. 3 Group J, which is Complainant's Exhibits 222J 4 through 228J. 5 HEARING OFFICER HALLORAN: May I ask 6 complainants do you have a clip or something? 7 MR. WANNIER: Yes, we do, your Honor. 8 MS. NIJMAN: If you have extras, that would be 9 great. 10 HEARING OFFICER HALLORAN: I need two clips now because you just handed me a bundle of more 11 12 exhibits, correct? 13 MR. WANNIER: Yes. Can we go off the record? 14 HEARING OFFICER HALLORAN: Yes, we're off the 15 record. (Discussion off the record.) 16 17 HEARING OFFICER HALLORAN: We're back on the 18 record. 19 BY MR. WANNIER: 20 Mr. Gnat, do you recognize these exhibits? Q. 21 Α. Yes, I do. 22 Q. And are these CCR lab results at the 23 Waukegan facility? 24 Yes, they are. Α.

	Page 68
1	Q. Okay. And do you have any reason to doubt
2	the accuracy of any of this information?
3	A. No, I do not.
4	MR. WANNIER: Complainants move for admission
5	of Group Exhibit J, Complainant's Exhibit Nos. 222J
6	through 228J.
7	MS. GALE: Again, I similarly, for the group
8	Exhibits G and H, I object to the admission of this
9	data because it is duplicative and cumulative,
10	except for the wells 11, 14 and 16, which are new
11	wells.
12	HEARING OFFICER HALLORAN: Thank you. Your
13	objection is noted on the record; however,
14	overruled. I'll admit Complainant's Group Exhibit
15	J222 to 228.
16	(Complainant Exhibit Nos. J222
17	to J228 were admitted into
18	evidence.)
19	BY MR. WANNIER:
20	Q. Mr. Gnat, we are now placing before you
21	Group Exhibit K, which is Complainant's
22	Exhibits 229K through 235.5K, and I'll just note
23	that it's 229 through 235 plus 235.5. We added one
24	at the end.

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 69 1 When you're ready, I'll give you some 2 time, but let me know when you're ready. 3 Α. Okay. 4 Do you recognize these exhibits? Q. 5 Α. Yes, I do. 6 Ο. And are they the Waukegan Tannery ELUC, and ELUC standing for environmental land use control 7 lab results? 8 These are samples will be collected from 9 Α. five wells that are identified as ELUC, E-L-U-C 10 wells, correct. 11 12 Can you tell me were any of these reports Ο. prepared for the CCA? 13 That is the clarification I wanted to make 14 Α. 15 in some of the titles on these reports. These are 16 not CCA wells, if I remember correctly. 17 Ο. But turning to Complainant's Exhibit --18 actually, if you can turn to complainant Exhibit 231K? 19 20 Α. Yes. 21 Q. Does that indicate that those reports are 22 pursuant to the CCA? 23 Α. Yes. That is the clarification I was 24 speaking about. On a few of these, I saw that it

Page 70 specifically said CCA, and I do not believe those 1 2 are actually part of CCA sampling. 3 Okay. And that would also apply to Ο. Exhibit 235.5K? 4 That is correct. 5 Α. 6 Ο. Do you have any reason to doubt the 7 accuracy of the data in any of these reports? 8 Α. No. 9 MR. WANNIER: Complainants will move for 10 admission of Exhibits 229K through 235.5K. 11 MS. GALE: No objection. 12 HEARING OFFICER HALLORAN: Thank you, Ms. Gale. Complainant's Group Exhibit K229 through 235.5 is 13 14 happened. 15 (Complainant Exhibit Nos. K229 16 through 235.5 were admitted into 17 evidence.) 18 BY MR. WANNIER: 19 And I have one last set for you, Mr. Gnat. Q. 20 We are now placing before you Group Exhibit L, which is Complainant's Exhibits 236L through 241L, which 21 22 we represent are CCR lab results at the Will County 23 facility. 24 Do you recognize these documents?

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 71 1 Α. Yes, I do. 2 Are they ground water monitoring results Q. 3 at the Will County facility? 4 For the CCR sampling, correct. Α. 5 Do you have any reason to doubt the Q. 6 accuracy of any of this information? 7 Α. No, I do not. 8 MR. WANNIER: Complainant's move for introduce 9 -- the admission of Group Exhibit L, Complainant's Exhibits 236L through 241L. 10 11 HEARING OFFICER HALLORAN: Ms. Gale? 12 MS. GALE: Again, we would object to the admission of this document as duplicative and 13 cumulative, except for monitoring wells 11 and 12, 14 15 which are not part of the CCA sampling. 16 Again, the admission of this data, the 17 inclusion of this in this case, prejudices my client for being double dinged for simply following two 18 19 different agency requirements. 20 HEARING OFFICER HALLORAN: Okay, thank you. 21 The Board will take note, I'm sure. In any event, it's overruled. 22 23 Complainant's Exhibit Group L -- 236L 24 through 241L is admitted.

Electronic Filing: Received, Clerk's Office 10/31/2017
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Page 72 1 (Complainant Exhibit Nos. 236L 2 through 241L were admitted into 3 evidence.) 4 HEARING OFFICER HALLORAN: Let's take a 5 15-minute break. See you at 11:00 o'clock. We're off the record. 6 (Discussion off the record.) 7 8 HEARING OFFICER HALLORAN: We're back on the 9 record at approximately 11:02. Mr. Wannier, your 10 witness still. 11 MR. WANNIER: Thank you, your Honor. BY MR. WANNIER: 12 13 Mr. Gnat, we are placing in front of you Ο. 14 an excerpt from Plaintiff Exhibit 20D. We're going 15 to provide the excerpt here to everyone, and we have 16 it available on the screen as well. 17 If we could put -- it's Complainant Exhibit 20D, Midwest Gen Bates number 23339. 18 19 HEARING OFFICER HALLORAN: 20D as in dog? 20 MR. WANNIER: 20D as in dog. 21 MS. GALE: Mr. Hearing Officer, we renew our 22 objection to the use of 20D, because it's 23 inadmissible, and what renew our motion -- because 24 the report for ComEd is done by one of ComEd's
	Page 73
1	contractors, and we move to strike any testimony
2	related to Midwest Generation 13-15 under score
3	23339, and anything related to Exhibit 20D.
4	HEARING OFFICER HALLORAN: First of all, this
5	doesn't have a marking on it, complainant.
6	MR. WANNIER: It should be at the top.
7	HEARING OFFICER HALLORAN: It's got to be
8	consistent.
9	MR. WANNIER: It's got to be consistent.
10	HEARING OFFICER HALLORAN: I'll put it at the
11	bottom. You have so many exhibits.
12	MR. WANNIER: Understood. This is a excerpt,
13	so it's not the entire exhibit.
14	HEARING OFFICER HALLORAN: Okay. Let's go back
15	on the record and find out where this is from.
16	MR. WANNIER: So, your Honor, we are only
17	attempting to use this as a demonstrative. It is a
18	excerpt from an exhibit that was previously admitted
19	in this case.
20	So, we will not be asking the witness any
21	substantive questions. We're using this to ask the
22	witness questions about the Joliet site because it's
23	helpful, but we're not
24	HEARING OFFICER HALLORAN: Is this the phase 2

Page 74

1 Com Ed Exhibit 17, 18, 19, 20?

MR. WANNIER: Yes.

2

MS. GALE: Mr. Halloran, there are maps that we
have provided to complainants that are Midwest
Generation maps that would be a better demonstrative
of Midwest Generation's operation of the site.
This is a map created for Com Ed by ENSR,
who was not employed by Midwest Generation. Sorry,

9 E-N-S-R. We would simply object to the use of this 10 map, in part, because there are other maps that

11 Midwest Generation has.

HEARING OFFICER HALLORAN: They chose this. It is a low threshold of authentication. Overruled. I'll allow Mr. Wannier to use it.

MS. GALE: I renew my motion to strike all the testimony related to this.

17 HEARING OFFICER HALLORAN: Denied.

18 BY MR. WANNIER:

19 Q. Mr. Gnat, do you recognize this?

20Does this appear to be a map of the Joliet21facility, 29 facility?

A. It appears to be.

23 Q. Are you generally familiar with the Joliet 24 29 site layout?

	Electronic Filing: Received, Clerk's Office 10/31/2017
	Page 75
1	A. In general, yes.
2	Q. Do you and as part of that, are you
3	generally aware of the locations of ash impoundments
4	at the Joliet 29 site?
5	A. Yes.
6	Q. Okay. You can put this aside for now.
7	We're going to use this as demonstrative as we go.
8	Right now we're going to place before you Plaintiff
9	Exhibit 242, which is the compliance commitment
10	agreement grand water management application for
11	Joliet No. 29 generating station, Midwest Gen Bates
12	667 through 711.
13	I did mean complainant. Thank you for
14	clarifying.
15	Mr. Gnat, do you recognize this document?
16	A. Yes, I do.
17	Q. Can you state what it is for the record?
18	A. This document is dated January 18th, 2013.
19	It is on Midwest Generation letterhead, and it's
20	regarding the compliance commitment agreement ground
21	water management zone application for Midwest
22	Generation Joliet No. 9 generating station.
23	MS. GALE: I object. Does he mean No. 29?
24	THE WITNESS: No. 29 generating station.

	Page 76
1	HEARING OFFICER HALLORAN: Your objection is?
2	MS. GALE: Withdrawn.
3	HEARING OFFICER HALLORAN: Okay, thank you.
4	MR. WANNIER: Your Honor, can I represent for
5	the record that every time I refer to Joliet, I'm
6	only referring to Joliet No. 29?
7	MS. GALE: I can't agree to that.
8	HEARING OFFICER HALLORAN: I agree. Please say
9	Joliet 29. It makes it clear on the record.
10	MR. WANNIER: Understood.
11	HEARING OFFICER HALLORAN: Thank you. I
12	appreciate your streamlining.
13	BY MR. WANNIER:
14	Q. Mr. Gnat, have you seen this document
15	before?
16	A. Yes, I have.
17	Q. And turning to Bates number page 6668,
18	excuse me, it's the second page.
19	Do you see your name second from the
20	bottom on the CC list?
21	A. Yes, I do.
22	Q. Okay. Turning to page 670, does this
23	appear to be a map of the ash ponds at the Joliet 29
24	facility?

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	Page 77
1	A. This is a map of the proposed ground water
2	management zone, which is the main topic of the
3	submittal.
4	Q. Understood. Does it depict ash ponds on
5	the map?
6	A. Yes, it does.
7	Q. Specifically, do you see ash pond 1, ash
8	pond 2 and ash pond 3?
9	A. Yes, I do.
10	Q. And do you see the ground water monitoring
11	zone, is that depicted in the area delineated with
12	slash lines on this figure?
13	A. That is the proposed area.
14	Q. The proposed area?
15	A. Yes.
16	Q. That doesn't include the entire Joliet
17	facility, does it?
18	A. No, it does not.
19	Q. Do you know why it doesn't include the
20	entire Joliet facility?
21	A. This area is focused on the ponds which
22	were the topic of the CCA and violation notice, and
23	this is the area that was geed upon with Illinois
24	EPA.

	Page 78
1	Q. Okay. Mr. Gnat, are you aware of any
2	other ash being present at the Joliet site?
3	MS. GALE: Objection, vague.
4	HEARING OFFICER HALLORAN: Sustained.
5	BY MR. WANNIER:
6	Q. Mr. Gnat, are you aware of any ash
7	placement areas, other than the three ash ponds
8	depicted in this map?
9	MS. GALE: Same objection, vague.
10	MR. WANNIER: Your Honor, I'm asking if he's
11	HEARING OFFICER HALLORAN: Overruled. You may
12	answer, if you're able.
13	THE WITNESS: I'm familiar with some areas that
14	may have had some ash, yes.
15	BY MR. WANNIER:
16	Q. If we can turn to the demonstrative.
17	Would you be able to point to me where on
18	this map any such areas would be?
19	A. The only concern on this map that I have
20	is certainly, I haven't drawn it, and how things
21	are labeled or titled on this map, I don't know if
22	that's the correct terminology for its use at the
23	time.
24	Q. Understood.

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Page 79

A. There was a wet area in the northwest part of the property that we did collect some samples of ash to determine whether or not it could be used for -- it can be classified as co-combustion byproduct or beneficial reuse. That would be in the northwest part of this site map.

Q. Understanding that the labels on this map,
8 that you cannot confirm the accuracy of the labels
9 on this map, could you try to delineate on this map,
10 maybe using those labels, where that area is?

MS. GALE: Objection, asked and answered. He just did.

MR. WANNIER: Your Honor, he said the northwest portion. I'm asking for a little bit more detail. HEARING OFFICER HALLORAN: I agree. Overruled. THE WITNESS: It would be hard for me to give you any very exact type location outside of pointing to a general area.

19 The maps that I'm used to seeing the 20 aerial photos would have some access roads and so 21 on, which would give me a better flavor as to where 22 that area was. I do not see the markers that I 23 usually look for to locate that area on this map. 24 Q. What about turning back to Plaintiff's --

Page 80 Complainant's Exhibit 242. Looking at Midwest Bates 1 2 670, is that the ash area you mentioned in the 3 northwest corner of the site on this map? 4 Α. Yes. I would be to locate it better for 5 you off this map. 6 MR. WANNIER: Your Honor, may I approach the 7 witness? 8 HEARING OFFICER HALLORAN: Sure. 9 BY MR. WANNIER: If you could point it out for me, I can 10 Q. clarify it for the record. 11 12 MS. GALE: Why don't you have him clarify it 13 for the record. 14 MR. WANNIER: I can have him clarify. 15 HEARING OFFICER HALLORAN: I'm still trying to 16 find Complainant Exhibit 242. 17 MR. WANNIER: It's our most recent exhibit. It 18 should be the most recent one you received. It's 19 the Joliet. 20 HEARING OFFICER HALLORAN: Thank you. BY MR. WANNIER: 21 22 Q. Would it be easier to use a different map, 23 Mr. Gnat? 24 This aerial photograph on -- I'll try Α.

Page 81 this, Bates page 687. 1 2 Okay, if you could turn to that. Q. 3 You can see an area to the northwest of Α. 4 the coal storage pile that has somewhat of an access 5 road that runs east-west curves and goes 6 north-south. 7 Q. Okay. 8 Α. It would be within that southeast portion of that access road, between the coal pile and that 9 access road, so in this area right in here. 10 Okay. Just for everyone's benefit, is 11 Ο. 12 there roughly a white square in the middle you're describing immediately northwest of the coal storage 13 14 pile? 15 That is correct. Α. 16 Is that area within the proposed ground Q. 17 water management center? No, it is not. 18 Α. 19 Are you aware of any other ash placement Q. 20 areas at the Joliet site? 21 MS. GALE: Objection, vague. 22 MR. WANNIER: I can rephrase. 23 HEARING OFFICER HALLORAN: Thank you. 24

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 82 1 BY MR. WANNIER: Other than the ash ponds and this area 2 Q. 3 that we previously discussed? 4 I know that I do a walk-over area as part Α. 5 of storm water -- the storm water plan. I've been 6 asked to walk over an area to do an erosion control 7 inspection, and that is an area that is to the 8 northeast of the ash pond area. 9 But I have -- I've been asked to do those inspections, and I do not know what the history of 10 that site is, and I have not collected any samples 11 in that part of the property. 12 13 Q. Okay. Α. 14 So, I don't have any direct knowledge than 15 that. 16 If we can turn to the demonstrative once Ο. 17 more, and understanding that I'm not asking you to confirm the accuracy of any of these labels, would 18 19 the area that you just described be delineated by 20 the words "Ash landfill" in the northeast of the map 21 that we placed in front of you? 22 Α. The area that I described certainly fits 23 into that area. I don't know if the terminology is 24 correct.

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 83 Understood. And is that area within the 1 Ο. 2 proposed ground water management zone? 3 No, it is not. Α. 4 Can you please turn to Bates page 688. Q. 5 Does this appear to be a monitoring wells location 6 site map? 7 Α. That is correct. Do you see where it says MW-1, and then 8 0. 9 there's several of them. I believe there are 11 of 10 them delineated on this map. 11 MW-1 through MW-11. Α. 12 Are these ground water monitoring wells at 0. the Joliet site? 13 14 Α. Yes. 15 And are you aware of any other monitoring Ο. locations at Joliet? 16 17 Α. Not that I'm aware of. 18 Q. Okay. Can you please turn to page 689, 19 the next page.

20Does this appear to be a ground water21contour map at Joliet?

A. That is correct.
Can you just describe -- we contained.

Q. Can you just describe -- we can see the same MW1 through 11, correct?

Page 84

1	Α.	Yes.

Q. I see horizontal lines and vertical lines.Can you please describe what those mean?

A. The horizontal lines -- each well has a
ground water elevation posted based on a measurement
that we took in the field. That measurement being
December 20, 2012 in this case.

8 And the horizontal lines are the lines 9 that are going in a southeast -- I'm sorry, 10 northeast-southwest direction. Those are ground 11 water contour lines or lines of estimated equal 12 ground water elevation or head.

13 The perpendicular lines to those that have 14 the arrows are the representation of the direction 15 of ground water flow or the low line on the map.

Q. Did you prepare this map, Mr. Gnat? A. It was probably prepared by one of the geologists working for me, but I have seen and reviewed it.

20 Q. You did review the ground water contour 21 delineations here?

22 A. Yes.

Q. Okay. Did you know what data was used to create these lines?

	Page 85
1	A. Yes, we collected water levels at each
2	monitoring well, prior to the start of ground water
3	sampling.
4	Q. Do you see on this map the bottom part
5	where it says, "Intake channel"?
6	A. Yes.
7	Q. Do you see further to the right of that
8	where it says "This is the Des Plaines River"?
9	A. Des Plaines River, correct.
10	Q. Did you obtain river elevation data for
11	those two water bodies?
12	A. No, we did not.
13	Q. Okay. Do you believe surface elevations
14	by nearby waterways are needed to accurately draw
15	contour lines?
16	MS. GALE: Objection, he's not an expert in
17	this case. He's simply here for a fact witness.
18	HEARING OFFICER HALLORAN: Mr. Wannier?
19	MR. WANNIER: Your Honor, he testified he
20	prepared these contour lines. I'm simply trying to
21	understand why he selected some data as opposed to
22	others.
23	I'm trying to establish we're not
24	trying to establish his expert opinion on this

Page 86 1 matter. 2 HEARING OFFICER HALLORAN: Overruled. He may 3 answer, if he's able. 4 THE WITNESS: The contour lines are 5 representation of the ground water elevations at 6 those points. 7 BY MR. WANNIER: 8 Q. Okay. 9 Α. The river and intake elevation is a surface water elevation. Although those two are 10 11 tied together in some ways, knowing the exact 12 surface water elevation does not require getting an understanding of the ground water flow conditions in 13 this situation. 14 15 Thank you. Can you please turn to page Q. 16 690, which is the next page? 17 Does this appear to be the aerial -- a map of the aerial distribution of ground water impacts 18 at Joliet 29? 19 20 This is an aerial depiction in what we Α. 21 call box plot format of our ground water data for a 22 specific well. 23 Q. Okay. 24 And for specific parameters. Α.

	Electronic Filing: Received, Clerk's Office 10/31/2017
	Page 87
1	Q. Can you please look at the MW-9 in the top
2	center and the chart attached to it?
3	A. Okay.
4	Q. Do you see that four of those numbers are
5	white in this printing, I believe, in the colored
6	printing?
7	A. That is correct.
8	Q. Are those to your knowledge, do those
9	four numbers represent exceedances of the possible
10	standard?
11	MS. GALE: Objection, that is GMZ. It means
12	it's a ground water management zone, and it is 2, 3
13	and 4 standards do not apply.
14	MR. WANNIER: I can rephrase, your Honor.
15	HEARING OFFICER HALLORAN: Thank you.
16	BY MR. WANNIER:
17	Q. To your knowledge, do these four numbers
18	represent ground water monitoring results of
19	concentrations that are higher than the applicable
20	ground water than the class 1 water standards?
21	A. There are class 1 water standards. In
22	this particular case, again, being under an existing
23	ground water management zone, shows standards are
24	not applicable.

	Page 88
1	Q. Can you turn to the bottom left of the
2	map? Do you see the word "bold"?
3	A. Yes.
4	Q. Do you see it says, "Bold equals bold
5	values exceed 35 IAC part 620"?
6	A. That is correct.
7	Q. Would you call those four numbers at
8	exceedances?
9	MS. GALE: Objection, ground water management
10	zone class 1, 2, 3 and 4 standards did not apply.
11	HEARING OFFICER HALLORAN: He can answer.
12	Ms. Gale, you can on cross flush it out.
13	THE WITNESS: Those standards, if I had to
14	compare them against what the class 1 standard is,
15	they are higher than the class 1 standard.
16	They cannot be considered an exceedance
17	because they are within the context of the ground
18	water management zone.
19	Q. Can you clarify the distinction in your
20	mind well, first, can you clarify the distinction
21	between being higher than the standard and
22	constituting an exceedance?
23	MS. GALE: Objection, vague.
24	HEARING OFFICER HALLORAN: Could you rephrase,

Page 89 1 Mr. Wannier. 2 BY MR. WANNIER: 3 You stated that these results are higher Ο. 4 than the applicable standards, but they are not an 5 exceedance? 6 MS. GALE: Objection, that misstates his 7 testimony. He did not say applicable standards. He 8 said, "I compare them to the class 1 standards." 9 HEARING OFFICER HALLORAN: Sustained. You want to rephrase? 10 11 MR. WANNIER: That's fair. 12 BY MR. WANNIER: You said they are higher than the class 1 13 0. 14 standard, but they are not in exceedance. 15 Can you explain why that is to be the 16 case? 17 Α. I believe we discussed that. It is above the class 1 standard; however, since this is data 18 19 from within an approved ground water management 20 zone, is not an exceedance which I believe in what 21 -- I'm just trying to highlight that it is exceeding 22 an allowable concentration. 23 This is not an exceedance as such. This 24 is within the context of the ground water management

Page 90 zone. Yes, it is above the class 1 water standard. 1 2 Can you just clarify for me the difference Q. 3 between exceedance and violation, to your knowledge? 4 MS. GALE: Objection, I don't know he used the term "violation." 5 6 BY MR. WANNIER: 7 Do you know what the term violation is? 0. 8 Α. I believe if you're parsing words 9 exceedance to violations here, there is probably some legal distinction, and I'm not a legal expert. 10 Okay, thank you. 688, this is, again, the 11 Ο. 12 monitoring well locations at the site, and we've previously discussed these. 13 14 Are there any monitoring wells near the 15 eastern ash placement area we discussed previously? 16 MS. GALE: Objection, misstates, 17 mischaracterization, on how you described it. 18 HEARING OFFICER HALLORAN: You want to 19 rephrase? 20 BY MR. WANNIER: 21 Q. You described an ash placement area 22 generally to the northeast of the ash pond; is that 23 correct? 24 Α. Is that where the storm water inspection

Page 91 1 area is. 2 Q. Yes. 3 Α. Yes. Are there any monitoring wells in that 4 Q. 5 area? 6 Α. I'm not aware of any. 7 Were you ever asked by Midwest Generation Ο. 8 to place any monitoring wells in that area? 9 Α. No, I haven't. 10 Now, turning to the other area we Q. Okay. 11 discussed to the northwest of the coal pile, are 12 there any monitoring wells in that area? Not that I'm aware of. 13 Α. 14 Ο. And were you ever asked by Midwest 15 Generation to place any wells in that area? 16 Α. No. 17 Ο. Okay. Okay, we're done with that exhibit. 18 Thank you, Mr. Gnat. 19 We will now be placing before you 20 Complainant's Group Exhibit M, which includes Plaintiff's Exhibit 243M through 246M, which I am 21 22 representing are Joliet ground water monitoring 23 I'll give you a second to review these. reports. 24 So, you can let me know when you're ready.

Page 92 I apologize. Before we do that, your Honor, 1 2 complainants move for admission of Complainant Exhibit 242. 3 4 HEARING OFFICER HALLORAN: Ms. Gale? 5 MS. GALE: No objection. 6 HEARING OFFICER HALLORAN: Thank you. Complainant's Exhibit 24 is admitted. 7 8 (Complainant Exhibit No. 242 was 9 admitted into evidence.) 10 BY MR. WANNIER: 11 Mr. Gnat, do you recognize -- sorry, Q. 12 you're not done. 13 Α. Okay. 14 Ο. What are these? Do you recognize these 15 documents? 16 Α. Yes, I do. 17 Q. What are they? 18 Α. They are quarterly ground water monitoring 19 reports for Joliet 29 station. 20 And, specifically, the Plaintiff Ο. 21 Exhibit 243M are the results for 2013 quarter 2, 22 correct? 23 Α. Correct. 24 And 244M is 2015 quarter 2? Q.

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 93 1 Yes. Α. 2 Q. And 245M is 2016 annual/quarterly report? 3 Α. Yes. 4 And 246 is 2017 quarter one, correct? Q. 5 Α. The second quarter. 6 Ο. I'm sorry, I misspoke. Yes, the second 7 quarter. Thank you. 8 Why do you have any reason to doubt the 9 accuracies of any of the information of these 10 reports? 11 Α. No. 12 These reports were prepared by Q. Okay. 13 KPMG, correct? 14 That's right. Α. 15 Your Honor, complainants move --MR. WANNIER: complainants move for admission of Group M, which 16 17 includes 243M through 246M. 18 MS. GALE: No objection. 19 HEARING OFFICER HALLORAN: Thank you, Ms. Gale. 20 Complainants Exhibit 243M, as in man, through 246M, 21 are admitted. 22 (Complainant Exhibit No. 243M 23 was admitted into evidence.) 24

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 94 1 BY MR. WANNIER: 2 Mr. Gnat, you can put that aside. Ο. 3 Plaintiffs are placing before you what has been 4 marked as Complainant Exhibit 247, which I am 5 representing is the CCB determination support for Joliet 29. 6 7 And you can let me know when you're ready? 8 Α. I believe there is a later revised version 9 of this report. 10 Do you know when this report was revised? Q. 11 I believe the following month because if Α. 12 memory serves me correct, we referenced three tables, and we only included one in this report. 13 14 We reissued a revised report that 15 basically was the same but included in the additional tables. 16 17 Ο. Understood. We can come back to that. 18 And we can discuss this when we get to 19 admitting this report. For now, I'm going to ask 20 you some questions about that. 21 Α. Okay. 22 Q. Can you please turn to page -- actually, 23 just the first page. 24 Do you see where is it says, "Midwest

Page 95 Generation Joliet stations No. 29"? 1 2 Α. Yes. 3 Can you look at the first paragraph under Ο. 4 project history and previous work? 5 Α. Okay. 6 Ο. And ignoring redactions in that document, 7 do you see that it says, "Midwest Generation Joliet 8 stations No. 29 include areas where ash and slag 9 resultant from the combustion of goal were formerly placed on the ground surface"? 10 11 Α. Yes. 12 Can you describe what was the purpose of 0. this report? 13 The purpose of this sampling was to obtain 14 Α. 15 representative samples of the ash to determine whether or not it can be classified as coal 16 17 combustion byproduct for beneficial reuse. 18 When did you become -- actually, let me Q. 19 back up one second. 20 The ash thing described here, is that in 21 either of the two areas we discussed on the not 22 using it? 23 Α. Yes. 24 Q. Which one?

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 96 The ash from the northwest portion of the 1 Α. 2 site. 3 It was immediately northwest of the coal Q. 4 pile? 5 Α. Correct. 6 Ο. And when did you become aware of this ash? 7 MS. GALE: Objection, vague. 8 HEARING OFFICER HALLORAN: Rephrase. 9 BY MR. WANNIER: 10 When did you first become aware that there Q. was ash placed in this portion of the Joliet 29 11 12 site? A. Probably shortly before we were asked to 13 14 sample it. 15 Do you know when Midwest Generation became Q. aware of this? 16 17 MS. GALE: Objection, speculation. 18 HEARING OFFICER HALLORAN: He can answer, if he's able. 19 20 THE WITNESS: No, I do not. 21 BY MR. WANNIER: 22 Q. And can you please turn to page 19495? 23 Are you at 19495? 24 Α. Yes, sir.

	Page 97
1	Q. Okay. And does this appear to be a map of
2	borings that were made in this area?
3	A. Yes.
4	Q. Okay. There were and there are two
5	different types of symbols. What is the difference
6	between those two symbols?
7	A. The black dots, as it notes in the legend,
8	were from a study by a previous consultant that was
9	done in July 2004.
10	Q. Okay. And did you rely on those borings,
11	as well as the borings that you conducted in
12	preparing this report?
13	MS. GALE: Objection to the term "rely" as
14	vague.
15	HEARING OFFICER HALLORAN: Rephrase.
16	BY MR. WANNIER:
17	Q. Did you review the previous borings?
18	A. I had some data from the previous study,
19	yes, I did.
20	Q. So, you had the data. Did you review that
21	data?
22	A. I believe we included a general
23	understanding of the data in our report and used
24	that as a guide to developing our program, amongst

Page 98 1 other things. 2 If you turn to page 19499. Does that Q. 3 appear to be a longer boring at site GP-1? 4 Α. Yes. 5 And GP-1 would be on the map that we Ο. 6 previously discussed, correct? 7 Α. That's correct, yes. 8 Ο. As would call of the borings, right? 9 Α. Yes. 10 Do you have any reason to doubt the Q. 11 accuracy of any of the borings conducted by Andrews 12 Environmental Engineering? 13 MS. GALE: Objection. I don't think Andrew 14 Environmental Engineering Borings are in here. 15 BY MR. WANNIER: 16 The legend on the map refers to them as Q. 17 "Andrews Environmental Engineering Borings," 18 correct? 19 That map is incorrect. Α. 20 The map also includes KPRG G2 borings Ο. 21 June 2005? 22 Α. Yes. The logs that you are referring to, 23 and that are in this report, are KPRG boring logs 24 June 2005.

Page 99 That's fine. Do you have any reason to 1 Ο. 2 doubt the accuracy of the KPRG borings? 3 No, I do not. Α. 4 Can you turn -- actually, let's stay on Q. 5 19499. 6 You can see on the description the first line says, "Bottom ash as well as" -- it says, 7 8 "Bottom ash common ground, brown, pattern dry," 9 correct? 10 It says, "Bottom ash, brown fine powder," Α. 11 correct, yes. 12 And the next line also includes the words 0. "Bottom ash"? 13 14 Α. As well as "Brown sand and gravel mix"? 15 And the line after has the word "slag" Ο. 16 with the description? 17 Α. As well as flat clay with some gravel. 18 Blackened clay describes the slag, right? Q. 19 Α. No. 20 Ο. Is clay an analysis? 21 Α. Clay is a descriptive term that we use for 22 a clay-type material. Slag is certainly not a 23 clay-type material. 24 Okay. The next one says, "Bottom ash" as Q.

Page 100 well, correct? 1 It sames, "Brown sand and gravel mix." 2 Α. 3 The one after that says, "Bottom Ο. Yes. ash"? 4 5 "Gray powder." Α. 6 Ο. The one after that says, "Slag black clay 7 and sand"? 8 Α. Clay and sandy moist, yes. Can you turn to boring log GP13. Sorry. 9 Ο. 10 Which is on Bates 19511 -- I'm sorry, 19512. Ι 11 misspoke. 12 That has one item under description it says, "Coal black sand-size dry," correct? 13 It says, "Coal black sand size dry," yes. 14 Α. 15 And now can you turn to 19513, and that Q. 16 appears to be a log boring at GP13A, right? 17 Α. That is correct. 18 That says, "Bottom ash Gray powder and Q. 19 sand dry per the top layer," correct? 20 Α. Yes. 21 Q. Can you explain the distinction between 22 GP13 and GP13A? 23 Sure, and it's explained in the report as Α. 24 These would be true for 14 and 15 I believe. well.

	Page 101
1	Q. I will represent for the record that 14
2	and 14A
3	A. Yes.
4	Q. Is there also a 14A boring?
5	A. Yes.
6	Q. And also a 15A boring?
7	A. Yes.
8	Q. This same relationship exists between 13
9	and 14A and 14 and 14A?
10	MS. GALE: Objection to the characterization as
11	"relationship." I don't think it's established.
12	HEARING OFFICER HALLORAN: Sustained.
13	THE WITNESS: When we got to the area of where
14	we had our initial boring for 12, and we collected
15	the sample, it was sorry, 13, which you were
16	asking about, we selected the sample, what we saw
17	was coal, and we were looking to try and
18	characterize the potential ash within that area.
19	And, sorry, taking a sample of coal would
20	not help the purpose of our study. It was not the
21	intent of the study to sample the coal. The intent
22	of the study was to determine whether any ash was
23	there and can be beneficially reused.
24	So, we relocated that boring over to we

	Page 102
1	shifted it over, as you can see on the map that
2	showed the locations, and found we were back in
3	this particular case, it reads, "Bottom ash powder
4	and sand," and we collected the sample from there,
5	because that's more the area of the material we were
6	targeting from this study.
7	Q. So, 13A is a relocated boring?
8	A. Correct.
9	Q. Okay. And the same for 14A and 15A?
10	A. Correct.
11	Q. Thank you.
12	MR. WANNIER: Your Honor, Complainants move for
13	admission of Complainant Exhibit 247.
14	HEARING OFFICER HALLORAN: Miss Gale?
15	MS. GALE: I object to that. Mr. Gnat
16	represented that there is a that they issued a
17	new report in August, that includes table 2 and 3,
18	which are not in this report.
19	Those tables are described in this report
20	on pages MWG13-15 underscore 19489 and 19490. This
21	is an incomplete report.
22	HEARING OFFICER HALLORAN: Mr. Wannier, why are
23	we looking at a revised one? Do you have
24	MR. WANNIER: This is not the revised one.

	Page 103
1	HEARING OFFICER HALLORAN: Why are you we
2	looking at the revived one? I'm sorry?
3	Why are we not looking at the revised one
4	and looking at this one in front of me?
5	MR. WANNIER: We can provide the revised
6	report. That was through we did not realize
7	there is an original and revised, but we have the
8	revised report, which we can introduce as Exhibit
9	247.5.
10	HEARING OFFICER HALLORAN: I'm going to grant
11	Ms. Gale's objection. I'll take it is an offer of
12	proof.
13	MR. WANNIER: That's fine.
14	BY MR. WANNIER:
15	Q. We're placing before you what has well,
16	what has been marked as Complainant Exhibit 293.
17	Mr. Gnat, do you recognize this document?
18	A. Yes, I do.
19	Q. Does this appear to be a revised version
20	of the CCB determination support for Joliet 29 that
21	we just discussed?
22	A. That is what it is.
23	Q. I asked you many questions about the CCB
24	determination support.
1	

	Page 104
1	If I asked you all those same questions
2	again, would your answers be the same?
3	MS. GALE: Objection, compound.
4	HEARING OFFICER HALLORAN: I'm sorry?
5	MS. GALE: Objection, compound.
6	MR. WANNIER: We can go through every question.
7	HEARING OFFICER HALLORAN: Overruled. He can
8	answer if he's able. I think it's clear enough.
9	THE WITNESS: Yes.
10	BY MR. WANNIER:
11	Q. I'm just going to state, for the record
12	okay.
13	So, 194, can you keep what was attempted
14	to be entered as Complainant's Exhibit 247 front of
15	you?
16	A. Okay.
17	Q. Does Bates 1946 correlate to 19576?
18	A. Yes.
19	Q. Other than the fact that 19576 was
20	reissued?
21	A. Yes.
22	Q. Okay. Does 19487 correspond to 19577,
23	other than the fact that 19577 was reissued?
24	A. That would be my recollection. Unless I

Page 105 sat here and went word for word for you, that is my 1 2 recollection. 3 Okay. I won't make you read it word for Ο. 4 word and I won't go through --5 MS. GALE: Can we go off the record for second? 6 HEARING OFFICER HALLORAN: Yes, you can. We're 7 off the record. (Discussion off the record.) 8 9 HEARING OFFICER HALLORAN: We're back on the 10 record. BY MR. WANNIER: 11 12 Turning to Complainant Exhibit 293, does 0. this appear to be the reissued CCB determination 13 14 report for Joliet 29? 15 Α. Yes, it does. 16 Can you please turn -- do you see under Q. 17 "Project history and previous work" on the first page where it says, "Excluding redactions, Midwest 18 Generation Joliet station No. 29 include areas where 19 20 ash and slag resultant from the combustion of coal 21 were formerly placed on the ground surface"? 22 Α. Yes. 23 It goes on to say, "The ash placement area Q. 24 at station No. 29 is approximately 13.2 acres in

Page 106 1 size"? 2 Yes. Α. 3 Can you explain the purpose of this Ο. 4 report, for the record? 5 The purpose of this report was to sample Α. 6 the materials in this area, to determine whether or 7 not they can be considered as coal combustion 8 byproduct for beneficial reuse. Specifically, would that beneficial reuse 9 Q. 10 of the material and the construction of the wind 11 break along the existing coal storage piles? 12 I know that that was one of the Α. engineering considerations that they were thinking 13 14 of using the material for, yes. 15 Were you aware of any other engineering Ο. considerations? 16 17 Α. Not offhand, no. When did you become aware that there was 18 Q. ash at that location at the Joliet site? 19 20 Shortly before being asked to do the Α. 21 sampling. 22 Q. When you say "shortly," can you estimate, 23 roughly? 24 I couldn't. This was back in 2005. Α. That

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 107 was 12 years ago. It could have been, you know, a 1 2 couple weeks earlier, you know, enough time to put 3 together a proposal. 4 Okay. That's fine. Q. A proposal to do the work and then the 5 Α. 6 report is after that. 7 That's fine. Are you aware when Midwest Ο. Generation became aware? 8 9 MS. GALE: Objection, vague, and speculative. 10 HEARING OFFICER HALLORAN: Rephrase. 11 I'm asking if he knows. MR. WANNIER: 12 HEARING OFFICER HALLORAN: I'm going to give a 13 little latitude, since we've already gone through 14 this already. We're basically worried about the 15 Bates stamp. 16 Right, I made the objection on the MS. GALE: 17 other document that was excluded, so I want to maintain the objection on this document which we'll 18 see if it will come in. 19

20 HEARING OFFICER HALLORAN: Okay. Rephrase,21 please.

22 BY MR. WANNIER:

Q. Are you aware when Midwest Generationbecame aware that there was ash at the site that you

Page 108 1 analyzed? 2 MS. GALE: Objection, speculative. 3 I'm asking if he knows. MR. WANNIER: 4 HEARING OFFICER HALLORAN: Overruled. He can 5 answer, if he knows. THE WITNESS: No, I do not. 6 7 BY MR. WANNIER: 8 And please turn to Bates page 19585. 0. Ιs 9 this a map of borings -- is this a map of the site that you analyzed in this report? 10 11 This is a map of the study area, yes. Α. 12 Study area. And does this not represent Ο. the boring sites, boring locations in this area? 13 14 Α. It represents where the borings were 15 taken, yes. 16 Okay. And you'll see that there are black Q. 17 circles and target symbols. 18 What do the black circles represent in 19 this map? 20 The black circles are from boring Α. 21 locations performed by another environmental group 22 called Andrew's Environmental Engineering performed 23 in July of 2004. 24 Okay. And did you review these borings? Q.
	Page 109
1	A. We reviewed some of the information that
2	was within that report and summarized it within the
3	context or within the text of our summary here.
4	Q. And where in your summary would that be?
5	A. Bottom of the first page Bates number 576
6	and onto the top half of Bates page 577.
7	Q. Just to clarify, that is 19576 to 19577?
8	A. Yes, sir.
9	Q. Okay. The other symbols on the map, what
10	do those symbols represent?
11	A. Those are the KPRG boring locations that
12	we performed in June of 2005.
13	Q. Can you please turn to strike the
14	previous question.
15	Can you please turn to page Bates stamp
16	19591?
17	A. Yes.
18	Q. Does this appear to a log boring of log
19	GP-1?
20	A. Yes, it does.
21	Q. GP-1 is one of the borings KPRG did,
22	correct?
23	A. Yes.
24	Q. And it's represented on the map that we

Page 110 just discussed? 1 2 Α. Yes. 3 Okay. Do you have any reason to doubt the Ο. 4 accuracy of any of the boring logs that KPRG conducted for this survey? 5 6 Α. No. 7 And just to clarify, can you turn to Ο. 8 19605? Does this appear to be a log of GP-13A? 9 Α. Yes. Okay. If you turn to the previous page 10 Q. 19604, there is a log of borings GP-13? 11 12 Α. Yes. The boring log for 13A is a completely 13 Q. different location from the boring log for 13, 14 15 correct? 16 MS. GALE: Objection to the statement "Completely different." 17 18 BY MS. GALE: 19 It is not in exactly as the same location Q. 20 as 13, correct? 21 Α. Correct. 22 Q. Why did you conduct -- why did you choose 23 to conduct boring 13A? 24 The purpose of the study was to evaluate Α.

Page 111 whether or not the material in that area could be 1 2 used as coal combustion byproduct for beneficial 3 reuse. 4 The material encountered in log of GP-13 5 did not include any of that material. It included 6 coal. So we shifted that location to an area that 7 had the type of material we were targeting for this 8 particular study. 9 Okay. Just turning back to the map at Q. 10 19585. 11 Α. Okay. 12 Let me first ask: Did the same thing 0. occur where you found primarily coal for the borings 13 at CGP-14 and GP-15? 14 15 That is correct. Α. 16 If you look at this map GP-13, 14, and 15 Q. 17 are all within -- that are part of the map labeled primarily, "Coal/coal residue, little to no dash," 18 19 correct? 20 Yes, that's the area that's labeled like Α. 21 that. 22 Q. And GP-13, 14A and 15A are all located in 23 the northern part of that map above the dotted line, 24 correct?

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 112 1 Α. Yes. 2 Complainants move for admission MR. WANNIER: 3 of Complainant Exhibit 293. 4 MS. GALE: No objection. 5 HEARING OFFICER HALLORAN: Thank you. 6 Complainant's Exhibit 293 is admitted. 7 (Complainant Exhibit No. 293 was 8 admitted into evidence.) 9 HEARING OFFICER HALLORAN: Now, do you want to 10 withdraw Complainant's Exhibit 247? 11 MR. WANNIER: We do. Thank you, your Honor. 12 We will withdraw Complainant Exhibit 247. 13 HEARING OFFICER HALLORAN: Complainant's 14 Exhibit 247 is withdrawn. Complainant Exhibit 293 is admitted. 15 16 BY MS. DUBIN: 17 Ο. You can set that aside Mr. Gnat. We are now placing before you Group Exhibit N, which 18 19 includes Complainant Exhibits 248N through 252N, 20 which we are representing are inspection letters for 21 the Joliet No. 29 former ash burial area runoff. 22 Sorry, former ash burial -- these are 23 runoff inspections for the Joliet No. 29 former ash

24 burial area.

Page 113 Do you recognize these documents? 1 2 Yes, I do. Α. 3 And can you describe them, please, for the Ο. 4 record? 5 I recognize these documents, with the Α. exception, as I'm going through here -- but, 6 7 honestly, I do not recognize -- let's take the 8 August 27, 2009. 9 Ο. Okay. 10 Attached to that is some additional Α. 11 documentation on the erosion blankets and a couple 12 of copies of the maps. Honestly, I don't remember if those were included in my original or not. 13 I'm just going to object to this 14 MS. GALE: 15 group. It was not -- as I understood the 16 representation from complainant, it's missing a 17 couple of documents, the fixes that were related to 18 each of these inspections. 19 And perhaps we miscommunicated on the 20 numbers, but I thought that this grouping included 21 the repairs --22 HEARING OFFICER HALLORAN: One at a time, 23 please. 24 MS. GALE: -- that KPRG did. I would say that

Page 1141this grouping is a mischaracterization.2MR. WANNIER: We can do these one by one, your3Honor.4MS. GALE: Okay.5HEARING OFFICER HALLORAN: Okay.6BY MR. WANNIER:7Q. Can you please turn to Complainant8Exhibit 248?9A. Okay.10Q. You stated previously that you recognized11this document, with the exception of which pages?12A. The pages starting Bates number 19455,13446, 447, 448, 449, 450.14Q. Do you recognize 19451 and 19452?15A. Those are my field notes, and whether or16not I included that with the report, itself, going17to my client, I do not remember offhand. I usually18don't include the field notes, but those are my19field notes.20Q. And are those field notes in relation to21 were those field notes taken as a part of the22MS. GALE: Objection to the description of an24analysis.	r	Electronic Filing: Received, Clerk's Office 10/31/2017
 MR. WANNIER: We can do these one by one, your Honor. MS. GALE: Okay. HEARING OFFICER HALLORAN: Okay. BY MR. WANNIER: Q. Can you please turn to Complainant Exhibit 248? A. Okay. Q. You stated previously that you recognized this document, with the exception of which pages? A. The pages starting Bates number 19455, 446, 447, 448, 449, 450. Q. Do you recognize 19451 and 19452? A. Those are my field notes, and whether or not I included that with the report, itself, going to my client, I do not remember offhand. I usually don't include the field notes, but those are my field notes. Q. And are those field notes in relation to were those field notes taken as a part of the analysis that is included in your letter? MS. GALE: Objection to the description of an 		Page 114
 Honor. MS. GALE: Okay. HEARING OFFICER HALLORAN: Okay. BY MR. WANNIER: Q. Can you please turn to Complainant Exhibit 248? A. Okay. Q. You stated previously that you recognized this document, with the exception of which pages? A. The pages starting Bates number 19455, 446, 447, 448, 449, 450. Q. Do you recognize 19451 and 19452? A. Those are my field notes, and whether or not I included that with the report, itself, going to my client, I do not remember offhand. I usually don't include the field notes, but those are my field notes. Q. And are those field notes in relation to were those field notes taken as a part of the analysis that is included in your letter? MS. GALE: Objection to the description of an 	1	this grouping is a mischaracterization.
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	22	analysis that is included in your letter?
24 analysis.	23	MS. GALE: Objection to the description of an
	24	analysis.

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 115 HEARING OFFICER HALLORAN: Sustained. 1 2 BY MR. WANNIER: 3 Were these field notes taken as part of Ο. 4 your preparation of the letter starting at 19448? 5 The first page appears -- because it has a Α. date of August 24th of '09, and my inspection 6 7 summary was issued a few days later, and those have 8 notes for five areas. My report includes I think 9 six areas. 10 And then the next page are additional field notes, but they don't have a date with them, 11 12 and it's certain this is more describing field notes from during a reparation of the features that we 13 14 noted, rather than a description of the features. 15 That certainly would not have been 16 included in this initial report. 17 Ο. I would like to ask you questions about the first few pages of what has been marked as 18 Exhibit 248N. 19 20 To be clear, do you remember when we 21 previously discussed the two ash placement areas? 22 Α. Yes. 23 Is it fair to say this inspection was of Ο. 24 the ash placement area you identified as being

Page 116

1 northeast of the ash pond?

2 A. Yes.

11

Q. Okay. Looking at the bottom, or the last paragraph before the bullet point -- I'm sorry, the one paragraph up.

Do you see where it says, "KPRG identified five areas outside the fenced boundary of the Joliet No. 29 facility where either sheet wash erosion or rilling has exposed the underlying ash slag and may transport the material to the Des Plaines River"?

A. Yes, I see that.

12 Q. When you say they are outside the fenced13 boundary, what does that mean?

A. There is a fence line associated with the operational portion to the facility that is to the east of the ash ponds, but does not include part of that area to the northeast that I did the site walk over.

19 Q. Understood. To your knowledge, though, 20 the area you did the site walk over, as part of the 21 Joliet, is part of the property, correct? 22 A. That is my understanding.

Q. Okay. Then you also identified a sixtharea that is within the fence line, correct?

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 117 1 Α. Yes. 2 Q. Okay. 3 MR. WANNIER: Complainant moves for admission 4 of Midwest Gen Bates range 19442 to 19444, which we 5 would classify as Complainant's 248N. 6 Feel free to rip off the remaining pages. 7 We're not moving to include those pages as part of this exhibit. 8 9 HEARING OFFICER HALLORAN: Ms. Gale? 10 MS. GALE: Okay. 19442? 11 MR. WANNIER: To 19444. 12 MS. GALE: No objection. HEARING OFFICER HALLORAN: Okay. 13 Thank you. Ι am taking off Bates stamped 19445, 446, 447, 448, 14 15 449, 450, 451 and 452. 16 I'm taking them off from the back of 17 Complainant's Exhibit 248N, as in Nancy; and with no objection, I'm taking Complainant's Exhibit 248N 18 19 into evidence as admitted. Thank you. 20 (Complainant Exhibit No. 248N 21 was admitted into evidence.) 22 BY MR. WANNIER: 23 Can you please turn to complainant Q. 24 Exhibit 249, then?

	Electronic Filing: Received, Clerk's Office 10/31/2017
	Page 118
1	A. Yes.
2	Q. Do you recognize this document?
3	A. Yes, I do.
4	Q. And is this a runoff is this a runoff
5	sorry, a former ash burial area runoff inspection
6	from August 2010?
7	A. It's for 2010, that's correct. It
8	includes my field notes from that inspection, which
9	I do not believe we usually submit with our reports.
10	Q. Okay. And in this inspection, you
11	identified five areas where sheet wash erosion or
12	rilling had exposed or could expose ash or slag,
13	correct?
14	A. I'm sorry, can you restate state that?
15	Q. Yes. During the inspection, you
16	identified five areas where either sheet wash
17	erosion or rilling had exposed or may expose the
18	underlying ash slag, correct?
19	A. That was one of the purposes of the
20	inspection, that is correct. We also then
21	identified what we recommend is to repair that
22	situation for each of those areas, which was then
23	subsequently done, obviously.
24	Q. Yeah, understood. You did actually

Page 119 subsequently repair the damage in this area? 1 2 Yes, we did. Α. 3 All of these five areas are within the Ο. 4 Joliet property line, to your knowledge, correct, 5 Joliet 29 property area? 6 Α. That is correct. 7 Q. Okay. 8 MR. WANNIER: Complainant's move for admission 9 of Complainant's Exhibit 249. 10 MS. GALE: My only objection is the witness 11 stated that his notes are not generally part of his 12 report. So, therefore, I don't think this should be considered as one exhibit. 13 HEARING OFFICER HALLORAN: Mr. Wannier? 14 15 Okay, Complainant's --MR. WANNIER: 16 complainants will move -- will withdraw that motion 17 and instead move to admit 19455 through 19457, as Complainant Exhibit 249N, 249.5M, and you can --18 19 we're happy to provide clean copies tomorrow. 20 HEARING OFFICER HALLORAN: Mr. Wannier? 21 MR. WANNIER: Complainants move for admission 22 of Midwest Gen Bates 19455 through 19457 as 23 complainants Exhibit 249N. 24 HEARING OFFICER HALLORAN: Ms. Gale?

Page 120 1 MS. GALE: No objection. 2 HEARING OFFICER HALLORAN: It's admitted. 3 (Complainant Exhibit No. 249N 4 was admitted into evidence.) 5 HEARING OFFICER HALLORAN: However, complainant 6 is to provide a clean copy when they are able 7 because we're not accepting 9458, 9459. Thank you. It's admitted. 8 9 BY MR. WANNIER: Can you please turn to what's been marked 10 Q. as Complainant's Exhibit 250N? 11 12 Α. Okay. And is this your runoff inspection for the 13 Ο. Joliet 29 former ash burial area for August 2011? 14 15 Α. It appears to be, yes. 16 Okay. Again, in this report, you Q. 17 identified two areas here where either sheet wash erosion or rilling had exposed or may expose the 18 19 underlying ash slag, correct? 20 That is the terminology that we use for Α. 21 the purpose of that report, yes. 22 Q. Can you turn to Bates 44145? 23 HEARING OFFICER HALLORAN: Bates what number? 24 MR. WANNIER: It's Midwest Bates 44155.

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 121 55, okay. 1 THE WITNESS: 2 MR. WANNIER: I may have misspoke, I apologize. 3 HEARING OFFICER HALLORAN: Thank you. BY MR. WANNIER: 4 5 What are the pictures on this page? Q. 6 Α. These are a set of pictures from area one 7 and area two. 8 Would you have included these pictures in 0. 9 your letter? 10 Α. Yes. 11 Okay. Can you also turn to 4415 -- I'm Ο. 12 sorry, strike that. MR. WANNIER: Complainant's move for admission 13 14 of Complainant 250N. 15 HEARING OFFICER HALLORAN: Ms. Gale? 16 MS. GALE: No objection. 17 HEARING OFFICER HALLORAN: Thank you. Complainant 250N, as in Nancy, is admitted. 18 19 (Complainant Exhibit No. 250N 20 was admitted into evidence.) 21 BY MR. WANNIER: 22 Q. I'm sorry, Mr. Gnat, can you please turn back to Complainant's 248, and also I'll want you to 23 24 look at Complainant Exhibit 249, so you can have

Page 122 1 them both in front of you. 2 Now, do you see -- on 248, can you turn to 3 1944 -- or, actually, sorry, just the first page, 19442. 4 5 And the area one, do you see the coordinates for area one at the bottom of that page 6 7 are listed as north 4130.068, west 8806.419? 8 Α. Yes. 9 Now, turning to Complainant's 249N, turn Ο. to Bates 19456, and looking at area 3, do you see 10 11 that area 3 is listed as being at coordinates 12 4130.068, west 8806.419? 13 Α. Yes. 14 Ο. Those are the same coordinates, right? 15 Α. They appear to be. 16 Now, is that the same -- to your Q. 17 recollection, is that the same issue that has been identified in both reports? 18 19 Two slightly different issues. They Α. No. 20 are certainly within the same general area. We use -- or I use a little hand-held GPS unit, and so 21 22 the coordinates in this case lined right up, but 23 that doesn't necessarily mean you're standing right 24 on top of the same exact area.

Page 123 These two items are in the same general 1 2 area, yes, two different issues. 3 Ο. Okay, that's fine. Thank you. So, can 4 you turn, please, to Complainant's Exhibit 251N, 5 what's been presented as 251N. 6 This is your runoff inspection for the 7 same area in September 2012, correct? 8 Α. That is correct. 9 Do you see that you identify four areas in Q. this report that where either sheet wash erosion or 10 rilling has exposed or may expose the underlying ash 11 12 slaq? MS. GALE: Objection to the characterization, 13 14 for conclusion sake. 15 HEARING OFFICER HALLORAN: I'm sorry, could you 16 repeat your objection? 17 MS. GALE: I object to form. I object to his question as mischaracterization of what the document 18 19 states? 20 HEARING OFFICER HALLORAN: Please rephrase. 21 BY MR. WANNIER: 22 Q. In this report, did you identify four 23 areas where either sheet wash erosion or rilling has 24 exposed or may exposed the underlying ash slag?

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 124 Again, same objection. 1 MS. GALE: That is not 2 what this document states. It mischaracterizes the 3 document. 4 BY MR. WANNIER: 5 Can I direct you to the second paragraph Q. 6 of 19470, the full paragraph? 7 Α. Yes. 8 Do you see where it says, "During the Ο. 9 inspection, KPRG identified four areas where either sheet wash erosion or rilling has exposed or may 10 expose the underlying ash slag"? 11 12 Yes, I can see where the confusion is Α. 13 stemming. 14 Ο. Okay. If you could please elaborate, I 15 would like to hear it. That initial statement, if you'll notice, 16 Α. 17 is one that is in every report in that paragraph, and that is the general intent and purpose of the 18 19 inspection. 20 And then with each area that I defined, I also defined what I see in that area. And a lot of 21 22 these descriptions, for example, in area 3, this is 23 an area where there is a small incision into the top 24 of the bank and sized features 25 feet long, 15 feet

Page 125

1 wide and up to one foot deep.

2 I'm not seeing any ash here. The purpose of this inspection is to determine the five areas of 3 4 sheet wash or erosion or rilling that has exposed or 5 may expose ash. So, a lot of our repairs are very 6 7 conservative. I see a rill that is greater than 8 four to six inches, I'm concerned they are exposing 9 ash. Even though I'm not seeing ash, I'm identifying this as an area of repair. 10 11 If I actually see ash, that is also noted 12 in the description. So, even though a report may have four or five locations, I did not necessarily 13 14 see ash exposed at four or five locations. 15 BY MR. WANNIER: 16 Understood. That's why --Q. 17 Α. That is not what you were trying to say what I said, and that's why I wanted to clarify. 18 19 Objection. MR. WANNIER: 20 BY MR. WANNIER: 21 Q. But it is fair to say that the areas are 22 identified either had exposed or may expose 23 underlying ash? 24 They are areas that I didn't want to get Α.

Page 126 any deeper. 1 2 That's fine. Thank you. Turn to page Q. 19473 of that same exhibit. 3 4 The two pictures on the back, would they 5 have been included in this report? 6 Α. Yes, they would have. MR. WANNIER: Complainants move for admission 7 8 of Complainant's Exhibit 251N. 9 MS. GALE: No objection. 10 HEARING OFFICER HALLORAN: Thank you. 11 Complainant's Exhibit 251N, as in Nancy, is 12 admitted. 13 (Complainant Exhibit No. 251N 14 was admitted into evidence.) 15 BY MR. WANNIER: 16 Can you please turn to Complainant's --Q. 17 strike that. We're placing in front of you --18 sorry, hold on. 19 You can put aside what we had placed front 20 We're going to withdraw that as an exhibit. of you. 21 HEARING OFFICER HALLORAN: We're going to 22 withdraw Complainant's Exhibit 252? You are going 23 to withdraw? 24 MR. WANNIER: Yes.

Page 127 MS. GALE: For the record, I would like to 1 2 describe what it is. It is the 2013 inspection 3 summary letter by KPRG for the July -- excuse me, 4 dated August 2013. 5 It is a runoff inspection. It is a single 6 page NWG13-15 under score 19483. 7 HEARING OFFICER HALLORAN: It was August 21st, 2013. 8 9 MS. GALE: Correct. I'm sorry, yes, August 21st, 2013. 10 11 HEARING OFFICER HALLORAN: Mr. Wannier? 12 MR. WANNIER: Your Honor, I would object to that. We didn't have any questions. We were trying 13 to save time. We got rid of it. They are free to 14 15 introduce that exhibit in their direct. 16 HEARING OFFICER HALLORAN: Okay. It's 17 withdrawn for now. 18 MR. WANNIER: Yes. 19 HEARING OFFICER HALLORAN: Just, for the 20 record, and we're still on the record, I'm planning 21 on taking a lunch in about ten minutes. So kind of 22 figure that in. 23 MR. WANNIER: This would be a great place to 24 stop. We're about to start on a new issue.

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 128 1 HEARING OFFICER HALLORAN: Let's go to lunch. 2 Be back about 1:20, 1:25. Thank you. We're off the 3 record. 4 (Recess taken.) 5 HEARING OFFICER HALLORAN: We're back on the 6 record. It's approximately 1:25. We're back from 7 lunch. 8 At present, we have Mr. Gnat on the stand 9 and Mr. Cannier is --10 MR. WANNIER: Wannier. 11 HEARING OFFICER HALLORAN: Wannier. You got me 12 confused. 13 MR. WANNIER: Sorry. 14 HEARING OFFICER HALLORAN: Anyway, so you're up 15 doing the direct as adverse. Thank you. 16 MR. WANNIER: Thank you, your Honor. I would 17 like to start with one housekeeping note. Complainants have a clean version of Complainant's 18 19 Exhibit 249N, which before the lunch break, we 20 included -- we had removed the last two pages from 21 the item. 22 HEARING OFFICER HALLORAN: Complainant's 23 Exhibit 249N, as if Nancy, is admitted. 24 MS. GALE: No objection.

	Electronic Filing: Received, Clerk's Office 10/31/2017
	Page 129
1	BY MR. WANNIER:
2	Q. And I have one last question about the
3	just before lunch, I was asking you about runoff
4	inspections for the Joliet No. 29 former ash burial
5	area.
6	A. Yes.
7	Q. I just wanted to confirm, did you conduct
8	any runoff inspections in actually, let's turn to
9	Exhibit 251N.
10	A. Okay.
11	Q. That was your inspection in September of
12	2011, correct?
13	A. 2012.
14	Q. I'm sorry, 2012. I misstated. Did you
15	conduct any other runoff inspection of this area in
16	2012?
17	A. No. After this, we did the repairs of
18	what I saw in 2012.
19	Q. And did you do any inspection earlier in
20	the year of that area?
21	A. Not that I remember.
22	Q. In 2011, other than the inspection for
23	which you issued a report, did you ever inspect that
24	the former ash burial area?

	Electronic Filing: Received, Clerk's Office 10/31/2017
	Page 130
1	MS. GALE: Objection, vague, to the word
2	"Ever."
3	BY MR. WANNIER:
4	Q. Did you do an inspection other than the
5	inspection referred to in your report in
6	Exhibit 249?
7	A. Not that I remember.
8	Q. Okay. As a general matter, in 2011, did
9	you conduct an inspection of the former ash burial
10	area, other than the inspection that is referred to
11	in your report?
12	A. I believe that's what you just asked me
13	about. No, not that I remember.
14	Q. The same question for 2010?
15	A. That is correct.
16	Q. And for 2009?
17	A. That is correct.
18	Q. Thank you. I'm placing in front of you
19	what has been marked as Complainant's Exhibit 253,
20	which is Midwest Gen Bates number 712 to 723, I'm
21	representing as a compliance agreement or ELUC
22	report at the Powerton station site. I'll give you
23	a chance to review it.
24	A. Okay.

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	Electronic Filing: Received, Clerk's Office 10/31/2017
	Page 131
1	Q. Do you recognize this document?
2	A. Yes.
3	Q. If you turn to sorry, what is this
4	document?
5	A. This document is a letter from Midwest
6	Generation to Illinois EPA dated January 18th, 2003,
7	compliance commitment and agreement ELUC, E-L-U-C.
8	Q. Okay. And you received this document when
9	it was sent, correct?
10	A. I received a copy yes.
11	HEARING OFFICER HALLORAN: Mr. Gnat, was this
12	January 18th, 2013? I'm looking at Exhibit 253 on
13	top?
14	THE WITNESS: 253. January 18th, 2013.
15	HEARING OFFICER HALLORAN: Okay. I thought I
16	heard 3, 2003.
17	MR. WANNIER: Thank you for clarifying, your
18	Honor.
19	BY MR. WANNIER:
20	Q. Can you please turn to page Bates page
21	720?
22	A. Okay.
23	Q. Does this appear to be a map of the ground
24	water contours at the power site?

	Page 132
1	A. This is a map of the ground water contours
2	for the silty clay units for the December 12th,
3	2012, sampling.
4	Q. Thank you. Actually, if you could turn to
5	Bates page 721, this a ground water contour map for
6	the gravelly sand unit on 12-12-2012?
7	A. Yes.
8	Q. Just, for the record, can you clarify the
9	distinction between the silt clay unit and the
10	gravelly sand unit?
11	A. Sure. When the initial wells went in by
12	the consultant, they were grappling with water
13	levels, that they were having a hard time
14	understanding the flow system.
15	KPRG was brought in under privilege with
16	the attorneys to assist in reviewing some of these
17	documents in developing a response to the violation
18	notices.
19	We determined we looked at the data of
20	the boring logs and so on, that the wells that we
21	have on our Figure B-2 on page 720, were all
22	screened within the silky clay unit, which is not
23	present everywhere across the site.
24	Those water levels tend to be a little bit

	Page 133
1	higher. So, if we isolated looking at the water
2	level from that unit from the wells that were
3	screened within the finer sands, we found that even
4	though these two units are correlated, are probably
5	geologically connected, there is a little bit
6	difference in the flow.
7	Within this silky clay unit the flow was
8	to the west. Within that underlying sandy unit,
9	which the other map contours flows more in a
10	north/northwesterly direction over to the northeast.
11	So, that's how those two maps were developed.
12	Q. Thank you. You mentioned, I believe, that
13	some of the wells were not within the silt clay
14	unit; is that correct?
15	A. That is correct.
16	Q. Can you clarify what you mean when you say
17	that they were not in the back unit?
18	A. Either that unit was not present within
19	that area, or it was screened within the underlying
20	sands.
21	Q. Okay. Can you are you familiar with
22	the extent of the silty clay unit?
23	A. I never sat down and mapped down the
24	borings as to where exactly that unit might pitch

Page 134 1 out. 2 That's fine. Can you share which units Q. 3 were not part of the silt clay unit? 4 MS. GALE: Objection, foundation. He just said 5 he never did it. 6 MR. WANNIER: He said he never did an analysis 7 outside of the boring of the wells. He felt he was aware of which wells were --8 9 HEARING OFFICER HALLORAN: Overruled. He may 10 answer, if he's able. 11 THE WITNESS: The wells that are described in 12 the silty clay unit, with this data here, are the ones on Exhibit B-2, page 720, would be monitoring 13 well MW12, MW14, MW15, MW8 and MW6. 14 BY MR. WANNIER: 15 16 Sorry. Just to clarify, I didn't hear Q. 17 you. You're saying those were the wells within the 18 unit? 19 Those are the wells we have depicted on Α. 20 this figure with their water levels attached, which 21 suggests those are the ones in the silty clay unit. 22 Q. Okay. Turning to page 721, would it be 23 fair to say that wells to whom an elevation is 24 attached are located within that unit?

	Page 135
1	MS. GALE: Objection, only to the extent I
2	think the witness should testify to that.
3	MR. WANNIER: That's fair. I can restate that.
4	HEARING OFFICER HALLORAN: Sustained.
5	BY MR. WANNIER:
6	Q. Which wells, to your knowledge are you
7	aware which wells were within the gravelly sand?
8	A. On this figure, the wells in that sandy
9	gravelly unit, gravelly sand unit, are the wells
10	that have a water level attached to the level
11	location on this figure.
12	Q. Okay. So, just to confirm, the wells to
13	whom a water elevation data point is not attached,
14	you do not believe to be part of the gravelly sand,
15	correct?
16	A. That is correct.
17	Q. In evaluating the contour lines for the
18	silt clay unit, did you obtain any elevation data
19	from nearby surface water?
20	A. We did not, no.
21	Q. Same question for the evaluation of the
22	ground water contour map for the gravelly sand
23	level?
24	A. We did not.

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 136 1 Ο. So, can you please turn to Bates page 722? 2 Α. Okay. 3 This is an aerial distribution of ground Ο. 4 water impact at the Powerton station, correct? 5 This is an area photograph that has what Α. 6 we call hot spots with the data with specific 7 parameters associated with each well. 8 And using one monitoring well as an 0. 9 example, can you please turn to monitoring MW-7 in 10 the top left corner of the letter? 11 Α. Okay. 12 Do you see that the values for arsenic, 0. 13 iron and Manganese, are a lighter shade and slightly bolded? 14 15 Α. Yes. 16 Okay. Are those values -- do those values Q. 17 exceed class 1 ground water standards? 18 MS. GALE: Objection to the use of this 19 document. 20 HEARING OFFICER HALLORAN: I think we went 21 through before. I sustained this objection. 22 MR. WANNIER: I think we --23 HEARING OFFICER HALLORAN: When I'm talking, 24 you have to stop. She can't take both.

	Page 137
1	MR. WANNIER: Your Honor, I'm reading verbatim
2	from the bottom left-hand corner of the map it uses
3	the term "exceed."
4	HEARING OFFICER HALLORAN: Okay. Well, then,
5	phrase it that way. You can bring it up that way.
6	MR. WANNIER: I believe I did phrase it that
7	way, but I can do it again.
8	HEARING OFFICER HALLORAN: You didn't, sir.
9	MR. WANNIER: Okay. I apologize.
10	BY MR. WANNIER:
11	Q. Do you see in the bottom left-hand corner
12	where it says in bold language, "Exceeds 35 ISE part
13	620"?
14	A. That is what it says there. Basically, it
15	implies they are above a class 1 drinking water
16	standard; however, there is not an exceedance of the
17	standard because it is within the GMZ.
18	Q. And can you please turn to Bates 723?
19	Does this appear to be a proposed ELUC boundary for
20	the Powerton station?
21	A. That is the title of the figure, yes.
22	Q. Just to clarify, the slashed line area
23	would be that proposed ELUC?
24	A. Correct. However, I'll make one

	Page 138
1	distinction. This line along the northeast side
2	should be a little bit further.
3	The ELUC goes all the way over to the
4	fence line of the property, as it was surveyed for
5	the final submittal.
6	Q. Just to clarify, then, for the record,
7	you're testifying the ELUC would include that dark
8	strip that also encompasses monitoring well 2 and 3;
9	is that correct?
10	A. Correct.
11	Q. Thank you for that clarification.
12	MR. WANNIER: Complainants move for admission
13	of Complainant's Exhibit 253.
14	MS. GALE: No objection.
15	HEARING OFFICER HALLORAN: Thank you.
16	(Complainant Exhibit No. 253 was
17	admitted into evidence.)
18	BY MR. WANNIER:
19	Q. We're going to place in front of you what
20	has been marked Exhibit 254, which we are
21	representing is the complainant's commitment
22	agreement ground water management application for
23	Powerton generating station.
24	Do you recognize this document?
1	

	Electronic Filing: Received, Clerk's Office 10/31/2017
	Page 139
1	A. Yes, I do.
2	Q. Can you just say quickly briefly what it
3	is?
4	A. Sure. It's a letter from Midwest
5	Generation to Illinois EPA, dated January 18, 2013,
6	regarding compliance commitment agreement ground
7	water management zone application.
8	Q. Okay. You received this document, as you
9	were CCed?
10	A. That is correct.
11	Q. Can you please turn to Bates number 727?
12	You're looking here at a proposed ground water
13	management zone for Powerton, correct?
14	A. That is the figures of the proposed ground
15	water management zone area, yes.
16	Q. You can see on the map there is at slashed
17	area, that I believe represents the ground.
18	Would you like it make the same correction
19	to the extent of the ground management water zone?
20	A. Yes.
21	Q. Can you state for the record what that
22	correction is?
23	A. The correction is moving the northeast
24	boundary to the fence line of the property.

Page 140 And thereby including monitoring well 2 1 Q. 2 and 3, correct? 3 Correct. Α. 4 Okay. Could you please turn to Bates page Q. 5 749. I'm sorry -- well, 749, yes. HEARING OFFICER HALLORAN: 749 in Exhibit 254? 6 7 MR. WANNIER: In Exhibit 254, yes. BY MR. WANNIER: 8 This states there is a summary data table 9 Q. attached to the GMZ application, correct? 10 11 Α. Yes. 12 Okay. The next several pages include the 0. 13 summary data table up through Bates page 15764, 14 correct? 15 Α. Actually, 15765. 16 It continues to 15766, actually. Q. 17 MS. GALE: I'm only going to object. It's not 18 the number. It's not 15766. It's just 766. 19 MR. WANNIER: Thank you for that correction. Ι 20 was misreading it is 766, correct. BY MR. WANNIER: 21 22 Q. Do you have any reason to doubt the 23 accuracy of any of this information in these tables? 24 Α. No.

Page 141 1 MR. WANNIER: Complainants move for admission 2 complainant Exhibit 254. 3 MS. GALE: No objection. 4 HEARING OFFICER HALLORAN: Complainant's 254 is 5 admitted. 6 (Complainant Exhibit No. 254 was 7 admitted into evidence.) 8 BY MR. WANNIER: 9 Mr. Gnat, we are now going to place before Q. Complainant Exhibit 255, which we are representing 10 11 is Bates numbers 11233 to 11237. 12 Are you familiar with this document? Yes, I am. I have two copies of page 1. 13 Α. 14 Ο. Yes. This is how it was produced to us. I believe -- if you can look at 11235. 15 16 Α. Okay. 17 Ο. Do you recognize this document? 18 This is a transmittal letter sent from Α. 19 KPRG from myself to Mr. Lynn Dunaway of Illinois EPA 20 on September 11th, 2013, regarding the Midwest 21 Generation Powerton generating station compliance 22 commitment agreement, the ELUC/GMZ. 23 Ο. Was this letter sent in response to a 24 request from the Illinois EPA?

Page 142

A. That is correct.

1

2

Q. What was Illinois EPA requesting?

A. When we submitted our submission
applications for the ELUC/GMZ, they had a concern on
having an upgraded monitoring report.

6 This letter addresses how I addressed my 7 discussions with Lynn Dunaway. In this letter, I 8 paraphrase what I understand was Illinois EPA's 9 exception or disagreement with what we defined at 10 that time as the upgrading monitoring wells.

11 So, I paraphrased in a letter what I felt 12 was their concern, and then provided modified 13 language within our submittal that used their 14 understanding, and their language to abate their 15 concerns, and that was the basis of this letter.

16 Okay. So, in making these changes, and Q. 17 specifically turn to 11236, if you look at the top 18 line, do you see where it say, "Wells MW-1, MW-9 and 19 MW-10 are considered intermediate monitoring wells 20 being generally up gradient of ash basins, but still 21 within an area that impacted ground water from 22 historical ash-related handling activities"? 23 Α. Yes, I see that. 24 Does that statement reflect your current Q.

Page 143 position on the ground water -- where those wells 1 are located with respect to in terms of the 2 3 gradient? 4 Α. Yes and no. The wording in this sentence 5 reflects Illinois EPA's interpretations on items. 6 Where I do agree, we have another 7 monitoring well 16 further up gradient, a new one 8 and wells 1, 9 and 10 are intermediate between that 9 new monitoring well between where the ash ponds are. 10 That part I agree with. 11 The other wording was wording, like I 12 said, was used based on -- to address Illinois EPA's concerns, what they wanted of the GMZ document. 13 14 Ο. Now, in responding to Illinois EPA, and 15 making this correction, you are agreeing, then, that 16 those wells are within an area impacted ground water 17 from historic ash-related handling activities, 18 correct? 19 MS. GALE: Objection, mischaracterizes his 20 testimony. 21 HEARING OFFICER HALLORAN: Rephrase. 22 BY MR. WANNIER: 23 What was the effect of your updating this Ο. 24 language?

	Electronic Filing: Received, Clerk's Office 10/31/2017
	Page 144
1	MS. GALE: Objection, asked and answered. He's
2	told you twice that he's paraphrasing what the
3	agency
4	HEARING OFFICER HALLORAN: Overruled. He may
5	answer.
6	THE WITNESS: Well, the effect is getting our
7	ground water management approved. I understand that
8	wells 1, 9 and 10 are in an area of impacted ground
9	water.
10	Whether or not that is related to the
11	historical or ash-handling activities, I can't come
12	to a conclusion on that.
13	BY MR. WANNIER:
14	Q. So, when you told the Illinois EPA that
15	you were accepting their updated language, that did
16	not affect your actual position on the truth of that
17	language?
18	MS. GALE: Objection, mischaracterizes his
19	testimony. He didn't say he's accepting their
20	language. He accepted he's paraphrasing the
21	language to comply with what they requested in the
22	application in an GMZ.
23	HEARING OFFICER HALLORAN: Sustained.
24	
Electronic Filing: Received, Clerk's Office 10/31/2017 Page 145 1 BY MR. WANNIER: 2 Mr. Gnat, when you sent this letter, did Ο. 3 you say anything in this letter that you did not believe to be true? 4 5 MS. GALE: Objection. Vague, compound, asks 6 for his opinion. He's not an expert. 7 He's simply responding to a request by the 8 agency to get a GMZ application done on behalf of 9 his client, Midwest Generation. 10 MR. WANNIER: Your Honor, we're trying to 11 understand what his current position is on the 12 relative position of monitoring 1, 9 and 10 in 13 ground water contour map. 14 And he's now claiming -- it is not clear 15 what he's claiming. 16 HEARING OFFICER HALLORAN: I'm unclear, too. Ι 17 understand the question. I would like for Mr. Gnat to answer based on Mr. Wannier's question. 18 19 It is a little confusing. If you can 20 rephrase, but I'm not sure how else he can ask it. 21 MS. GALE: Well, my understanding of his 22 question was that whether be believed anything in here not to be true. 23 24 So, he's being asked to affirm an agency

Page 146 position, which he only put in here to simply 1 2 paraphrase what the agency told him? 3 HEARING OFFICER HALLORAN: It's on the record. 4 Your objection is noted. If you can get him on 5 cross to rehabilitate him, if need be. 6 I'm not sure what question is, though. 7 MR. WANNIER: Would we be able to have the 8 question reread for the record? 9 HEARING OFFICER HALLORAN: Well, there's, like, 10 six questions. 11 MR. WANNIER: The most recent one. 12 HEARING OFFICER HALLORAN: I'm sorry? MR. WANNIER: Would it be possible to read the 13 14 most reason question. HEARING OFFICER HALLORAN: Sure. 15 Court 16 reporter, please. 17 (Said question was read.) 18 MR. WANNIER: I can rephrase that, your Honor. 19 HEARING OFFICER HALLORAN: Okay. 20 BY MR. WANNIER: 21 Q. Mr. Gnat, do you believe that monitoring 22 wells 1, 9 and 10 are located within an area of 23 impacted ground water from historical ash-related 24 handling activities?

	Page 147
1	A. Monitoring wells 1, 9 and 10 are located
2	within an area of impacted ground water from
3	historical activities, be they ash related or other
4	historical activities, that I cannot definitively
5	say.
6	Q. Okay. Was it your understanding that IEPA
7	expected strike that.
8	Who wrote the GMZ application?
9	A. I did.
10	Q. You did? And that's the application that
11	is Exhibit 254?
12	A. That is correct, yes.
13	Q. Okay. And when IEPA approved it's your
14	understanding that IEPA only approved your GMZ
15	application after the changes they requested were
16	made, correct?
17	A. Correct.
18	MR. WANNIER: No further questions. Sorry,
19	further questions, but not on this exhibit.
20	Complainants move for admission of
21	Complainant's Exhibit 1255.
22	HEARING OFFICER HALLORAN: Ms. Gale?
23	MS. GALE: No objection.
24	HEARING OFFICER HALLORAN: Okay. Thank you.

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	Page 148
1	Complainant's Exhibit 255 is admitted.
2	(Complainant Exhibit No. 255 was
3	admitted into evidence.)
4	BY MR. WANNIER:
5	Q. Mr. Gnat, complainants are placing before
6	you Complainant's Exhibit 25 a group Exhibit O,
7	which includes Exhibit 2560 through 2600.
8	HEARING OFFICER HALLORAN: Could you repeat
9	that again, please?
10	MR. WANNIER: Yes, the group is the letter O,
11	and that is Exhibits 2560, to 2600.
12	HEARING OFFICER HALLORAN: Thank you.
13	MS. NIJMAN: Mr. Halloran, could we have just a
14	moment to look at the exhibits?
15	HEARING OFFICER HALLORAN: Yes, you may.
16	(Pause)
17	MS. BUGEL: You can let me know when you're
18	ready.
19	THE WITNESS: Okay.
20	BY MR. WANNIER:
21	Q. Do you recognize that these documents?
22	A. Yes, I do.
23	Q. Can you describe what they are, please?
24	A. The first one is a quarterly ground water

Page 149 monitoring report for the Powerton generating 1 2 station for second quarter 2013. 3 And, for the record, this is 2560? Ο. 4 Yes, Exhibit 2560. 2570 is a quarterly Α. 5 monitoring report for the Powerton station for 6 second quarter 2015. Exhibit 2580 is the annual and quarterly 7 8 ground water monitoring report for the Powerton station for fourth quarter 2016. 2590 exhibit is 9 the quarterly ground water monitoring report for the 10 11 Powerton station first quarter 2017. 12 And Exhibit 2600. 13 Q. 0? 14 O is the quarterly ground water monitoring Α. 15 report, Powerton station, second quarter 2017. 16 Thank you. And I'm just going to clarify Q. 17 the record the last digit of each of those is the letter O instead of the number of zero. 18 19 We probably could have skipped 20 Group Exhibit O. So my apologies. BY MR. WANNIER: 21 22 Q. Did KPMG prepare these reports? 23 Α. Yes, we did. 24 Do you have any reason to doubt the Q.

Page 150 accuracies of any of the information of any of these 1 2 reports? 3 No, I do not. Α. MR. WANNIER: Plaintiffs would move for 4 5 admission of Group Exhibit O, which is 256 through 260. 6 7 HEARING OFFICER HALLORAN: Thank you. 8 Complainant's Exhibit Group Exhibit O 256 through 260 is admitted. 9 10 (Complainant Exhibit Nos. 256 to 11 260 were admitted into 12 evidence.) 13 BY MR. WANNIER: We're now placing in front of you 14 Ο. 15 Plaintiff's Exhibit 261, which is the Midwest 16 Generation Powerton generating station -- I'm sorry, 17 hold on. 18 This is actually -- we're representing 19 this is the metals cleaning basin quarterly group 20 water sampling summary for the fourth quarter of 21 20165. 22 Do you recognize this document? 23 Α. Yes, I do. 24 Can you describe what it is? Q.

	Page 151
1	A. This is the metals cleaning basin ground
2	water sampling summary dated January the date of
3	the report is January 24, 2017, to Midwest
4	Generation Powerton station.
5	Q. If you could turn to Bates page 58589,
6	which is unfortunately obscured, but it's the map on
7	the second page.
8	A. Yes.
9	Q. Does this map depict the metal cleaning
10	basin?
11	A. Yes, it does.
12	Q. And do you see that it mentions monitoring
13	wells 12 through 16?
14	A. Yes, it does.
15	Q. Those are the four wells for which data
16	are included on the subsequent data, correct?
17	A. No, the metals cleaning basin permit
18	requirements are only three monitoring wells, 13,
19	14, and 15, and that's the data for those wells.
20	Wells 12 is not part of that network.
21	Q. I apologize for my misstatement, but it
22	includes wells 13 through 15?
23	A. Correct.
24	MR. WANNIER: Complainants move for admission

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Page 152

1 of Complainant Exhibit 271.

MS. GALE: I have to object because I'm wondering if there was analytical data attached to this report. My understanding is typically analytical data is attached to these reports. BY MR. WANNIER:

Q. Mr. Gnat, is analytical data of this type8 typically attached to these types of reports?

9 A. In these reports, I do not believe we were 10 attaching the analytical data package because these 11 are also sampled as part of our CCA sampling. All 12 the analytics were included in there.

MS. GALE: Now I have a different objection. Mr. Gnat just told us this data is in the CCA reports, which I've just admitted into evidence.

As I stated this morning, the data is cumulative and duplicative. In fact, I believe it had the exact same numbers and the exact same data that's already in the record.

20 So, there is really no reason to include 21 this document.

22 MR. WANNIER: Your Honor, we don't believe that 23 is the case. We're not prepared to do that this 24 comparison at this time.

Page 153 1 I mean, we can try to go through it right 2 But, I mean, we did offer this as a ground now. 3 water monitoring Exhibit 2, defendants, and they did authenticate and did not raise any concerns with the 4 inclusion of it at that time. 5 6 I understand they can object at this time 7 on different grounds. 8 HEARING OFFICER HALLORAN: I know the Board 9 will disregard any kind of prejudicial effect. 10 MS. GALE: To their point -- I didn't have a problem with it. 11 HEARING OFFICER HALLORAN: I'm talking. 12 13 MS. GALE: I'm sorry. 14 HEARING OFFICER HALLORAN: Anyway, Ms. Gale? 15 MS. GALE: May I continue? 16 HEARING OFFICER HALLORAN: Yes, you may. 17 MS. GALE: Sorry. To the point I didn't have a problem with it. I've made it clear to them since 18 19 last week that we have problems with duplicative 20 I just learned today that this is duplicative data. 21 from my witness, because it contain the data 22 package, which these typically do. 23 Again, this is duplicative. And as he 24 just said, it contains information that's in these

Page 154 reports that were just admitted no evidence. 1 2 HEARING OFFICER HALLORAN: The Board can sift 3 that out. I'm sorry? 4 I'm sorry. MS. GALE: 5 HEARING OFFICER HALLORAN: It's accepted, over 6 Midwest's objection, Complainant Exhibit 261. 7 (Complainant Exhibit No. 261 was 8 admitted into evidence.) 9 MR. WANNIER: Thank you, your Honor. 10 BY MR. WANNIER: 11 You can set that aside. We are now Ο. 12 placing before you Complainant Exhibit 262, which is a letter that represents a letter you wrote to 13 14 Mr. Lynn Dunaway at the Illinois EPA. 15 Do you recognize this document? 16 Α. Yes, I do. 17 Ο. Is it, in fact, a letter that you wrote to 18 Mr. Lynn Dunaway? 19 Yes, it is the same letter I believe that Α. 20 you asked me about in Exhibit 255. 21 MR. WANNIER: Complainants will withdraw 22 Complainant 262. 23 HEARING OFFICER HALLORAN: Good choice. 24

	Electronic Filing: Received, Clerk's Office 10/31/2017
	Page 155
1	BY MR. WANNIER:
2	Q. I have one further question about this
3	exhibit, then. I'm talking about Complainant
4	Exhibit 255.
5	A. Okay.
6	Q. Let's actually turn back to the historical
7	ash relating to the activities language on page
8	11236.
9	HEARING OFFICER HALLORAN: Could you hold on a
10	minute? I have to have find your exhibit. What
11	exhibit are we looking at it?
12	MR. WANNIER: 255.
13	HEARING OFFICER HALLORAN: I got it. Thank
14	you. You may proceed.
15	BY MR. WANNIER:
16	Q. Are you aware of what historic ash-related
17	handling activities his you were referring to here?
18	MS. GALE: Objection, calls for speculation.
19	As he testified earlier, he's paraphrasing the
20	agency's statement.
21	MR. WANNIER: I understand. I'm only asking if
22	he's aware of these ash-handling activities.
23	HEARING OFFICER HALLORAN: He may answer, if
24	he's able.

	Page 156
1	THE WITNESS: I do not know what all the
2	ash-handling activities were at this facility. I
3	don't know how they handled their ash.
4	BY MR. WANNIER:
5	Q. Complainant would like to place before you
6	Complainant Exhibit 263, which we are representing
7	is the compliance committee agreement, ELUC, for the
8	Waukegan site.
9	A. Okay.
10	Q. Do you recognize this document?
11	A. Yes, I do.
12	Q. Can you please describe it for the record?
13	A. It's a letter from Midwest Generation
14	dated January 18, 2013, regarding compliance
15	commitment agreement ELUC Midwest Generation
16	Waukegan station.
17	Q. And did you receive this letter when it
18	was went?
19	A. I received a copy, yes.
20	Q. Can you please turn to page 608?
21	A. Okay.
22	Q. And does this appear to be a ground water
23	contour map for Waukegan station?
24	A. Yes, it does.

Page 157 1 Ο. And you helped to prepare this map working with KPRG? 2 3 Α. I reviewed it, yes. 4 In preparing this contour -- sorry, this Ο. 5 map includes contour lines and water flow lines as 6 we previously discussed? 7 Α. Yes. 8 And in comparing those contour lines, did 0. 9 you obtain any surface validation data from any nearby waterways? 10 No, no physical measurement. 11 Α. Lake 12 Michigan has a general validation. I don't remember the validation offhand. 13 14 Sorry, just to clarify, did you obtain Ο. 15 that data? 16 We did not take any physical measurements Α. 17 of the water level, no. Did you make any other attempts to find 18 Q. 19 out the surface water levels, the nearby surface 20 water levels? 21 Α. I believe from topographic maps and so on, 22 you can get an elevation of Lake Michigan and not 23 have it posted on. 24 Did the elevation of Lake Michigan go up Q.

Page 158 or down at all? 1 2 MS. GALE: Objection, vague. 3 HEARING OFFICER HALLORAN: He can answer, if he's able to. 4 5 THE WITNESS: Yes. 6 BY MR. WANNIER: 7 And did you make any attempt to understand Q. 8 how the evaluation might change throughout the year? 9 MS. GALE: Objection, if he's talking about Lake Michigan. I think you are talking about the 10 11 ground water here. It's vague, compound. 12 Throughout the year? I'm trying to figure out if he 13 MR. WANNIER: 14 ever obtained surface water data for Lake Michigan, 15 and as he's discussed -- he's testified it can be 16 ground water. 17 HEARING OFFICER HALLORAN: Overruled. 18 Mr. Gnat? 19 THE WITNESS: Relative to creating this ground 20 water contour map, the absolute elevation of Lake 21 Michigan at the time of obtaining these water levels 22 would not change the drawing of this map. 23 BY MR. WANNIER: 24 That wasn't quite my question. Does that Q.

Page 159 mean that you did then did not attempt to secure 1 2 this data that I asked you about, the change in 3 elevation? 4 I do not have data on Lake Michigan for Α. 5 the change in elevation over the course of the year. 6 Ο. Thank you. This map also shows monitoring 7 wells at Waukegan; is that correct? 8 Α. Yes. 9 Are you aware of any monitoring wells at Q. Waukegan, other than wells that are depicted in this 10 map? 11 12 Α. Yes. What are those monitoring wells? 13 Ο. 14 We have depicted on this map monitoring Α. wells 1 through 7, and I do know that we have an 15 16 additional set of wells 8 through 16, I believe. 17 Ο. Okay. Where is monitoring well 8 located? 18 Or, if you prefer, you can state generally 19 where those latter ones are and see if we get an 20 objection it's a compound question. 21 Α. I know maps that are available that have 22 locations of wells on there. I would rather have 23 that rather than to misspeak in this forum. 24 Can you please turn to page 609? Q.

	Electronic Filing: Received, Clerk's Office 10/31/2017
	Page 160
1	A. Okay.
2	Q. Again, is this a map of the aerial 609
3	is an aerial map that depicts ground water sampling
4	at monitoring well 1 through 7?
5	A. This is an aerial photograph with what we
6	call box spots that contain the concentrations of
7	specific parameters associated with each well on
8	this figure, yes.
9	Q. If you could turn to page 610. Does this
10	appear to be a proposed ELUC boundary extension at
11	the Waukegan site?
12	A. That is what is depicted on the map, yes.
13	Q. Just to be clear, the left center of this
14	map has white shaped, that is the
15	previously-established ELUC, correct?
16	A. That's my understanding, yes.
17	Q. The dark hashed area is encompassing the
18	western part of the proposed extension, correct?
19	A. Correct.
20	Q. Turning quickly to page 608 again, the
21	contour map. So, I understand that you don't want
22	to well, strike that.
23	Monitoring wells 8 through 16, which I
24	understand are not depicted on this map, would have

Page 161 ground water elevation data? 1 2 You would procure ground water elevation 3 data at those monitoring wells, correct? 4 Α. Perhaps not at this time in 2012. Yes. 5 Understood. Do you believe that the Q. 6 ground water elevations that monitoring wells 8 7 through 16 could affect the contours in this -- that 8 were depicted in this map? 9 MS. GALE: Objection calls for speculation. 10 HEARING OFFICER HALLORAN: He may answer, if 11 he's able. 12 THE WITNESS: That would depend on what those 13 water levels were. 14 MR. WANNIER: Complainants would move for the 15 admission of Complainant's Exhibit 263. 16 MS. GALE: No objection. 17 HEARING OFFICER HALLORAN: Thank you, Ms. Gale. Complaint Exhibit 263 is admitted. 18 19 (Complainant Exhibit No. 263 was 20 admitted into evidence.) 21 MR. WANNIER: Can we have one moment, your 22 Honor? 23 HEARING OFFICER HALLORAN: Sure. We're off the 24 record.

Page 162 1 (Discussion off the record.) 2 We can go backed on the record. MR. WANNIER: 3 HEARING OFFICER HALLORAN: We're back on the 4 record. Thank you. BY MR. WANNIER: 5 6 Q. Sticking once more with Complainant's 7 Exhibit 263, do you know what the proposed -- I'm 8 sorry, is there a ground water management zone at 9 Waukegan? 10 Α. Not to my knowledge, no. Thank you. We're now going to place 11 Ο. 12 before you what's been marked as Complainant Exhibit 264, which we are representing is a series 13 14 of maps and charts relating to the Waukegan station. 15 Are you familiar with this document? You 16 can take some time to review it. 17 Α. I am familiar with the pages you handed 18 me. They are never together as a part of one 19 document. This is within, I imagine, a file folder, 20 it looks like. 21 So, I don't know what the description of 22 the document is. I am familiar with the pages that 23 you handed me. 24 Let's -- maybe if we look at Midwest Gen Q.

 Bates 14524 through 14531, are you familiar with those pages as a single document? A. 14524 is a copy of my folder label. So, that's a document it's a folder label. 14525 and 14526 are a table from Patrick Engineering with the survey data basically for the monitoring wells they installed, and added to that were the two wells that some data from the two wells MW-6 and MW-7 that KPRG installed. Q. If I can ask, 15424 is a folder label, correct? A. Correct, that is what it appears to be. Q. Is it fair to say 15425 to 15431 were all kept together in your folders as a single document? A. I'm assuming that's why they are grouped together, yes. In my head, a document is something like this, generally everything is referenced. BY MR. WANNIER: Q. I would like to turn your attention to 15429, and this is an aerial photo from 1974, correct? 		Page 163
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23 15429, and this is an aerial photo from 1974,	21	A. I understand.
	22	Q. I would like to turn your attention to
24 correct?	23	15429, and this is an aerial photo from 1974,
	24	correct?

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 164 Yes, an aerial photo from 1974. 1 Α. 2 Okay. Have you seen this map before? Q. 3 I have seen this aerial photo, yes. Α. 4 Can you turn to 15430? I'm sorry, 14530. Q. 5 Α. Okay. 6 Q. I may have misspoken on the record. I may 7 have said 15429. I intended to say 14529. My apologies for that. 8 9 And 15429 is the 1974 aerial photo, 10 correct? 11 Α. Yes. 12 And 14530 is another aerial photo from Ο. 1961, correct? 13 14 Α. Correct. 15 And have you seen this map before? Ο. 16 Yes, I've seen this aerial, yes. Α. 17 Q. Okay. Do you see in, I guess, the upper central part of the map where it says, "Present ash 18 foundry"? 19 20 Α. Yes. 21 Q. And you can see that there are seven --22 the seven monitoring wells, 1 through 7, correct? 23 Α. Yes. 24 Okay. And turning back to 14529, can you Q.

Page 165 also see the present ash foundry as a label on that 1 2 map? Yes. 3 Α. 4 And you see monitoring wells 1 through 7? Q. 5 Α. Yes. 6 Ο. Okay. 7 MR. WANNIER: Complainants move for -- strike 8 that. 9 Complainant's move for admission of 10 Midwest Gen Bates numbers 14524 to 154 -- 14531 as 11 Complainant Exhibit 264. 12 HEARING OFFICER HALLORAN: Okay. On the front page, 14522 --13 14 MR. WANNIER: Yes, we believe that is a 15 separate exhibit. We're looking to get 14524 to 16 14531. 17 HEARING OFFICER HALLORAN: So, you're moving Complainant Exhibit 264 at Bates stamp 14524 through 18 what? 19 20 MR. WANNIER: 14531. 21 HEARING OFFICER HALLORAN: Ms. Gale? 22 MS. GALE: No objection. So you don't want 23 14532 and the rest? 24 MR. WANNIER: That's right.

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 166 HEARING OFFICER HALLORAN: I should rip these 1 2 off? 3 MR. WANNIER: You should rip those off. 4 HEARING OFFICER HALLORAN: Okay. Can you come 5 up here and take this? No hurry. Complainant's 6 Exhibit No. 261, Bates stamped 14524 through 15431 7 is admitted. 8 BY MR. WANNIER: 9 Mr. Gnat, complainant is placing before Q. you -- sorry about that. 10 11 Complainant's are placing before you what 12 is marked as Complainant Exhibit 265, which is a table of ground water elevations at Waukegan. 13 14 Do you see where in looking at along the 15 columns, do you see where it says, "Ground water elevation"? 16 17 Α. Yes. 18 Q. And do you see where it says -- the column 19 that says, "Sampling ground water elevation"? 20 Α. Yes. 21 Q. Can you explain the difference between the 22 ground water elevation column and the sampling 23 ground water elevation column? 24 Α. Sure.

	Page 167
1	MS. GALE: Objection, lack of foundation. It's
2	not been established this is his document.
3	HEARING OFFICER HALLORAN: Sustained.
4	BY MR. WANNIER:
5	Q. Do you recognize this document?
6	A. It's a table with the information you were
7	describing on it.
8	Q. Have you ever seen it before?
9	A. It appears to be a format that we would
10	put things in. I don't know what document it might
11	have come out of.
12	Q. And by "we," you mean KPRG?
13	A. Correct.
14	Q. Have you do you remember analyzing
15	ground water elevation at wandering wells at
16	Waukegan?
17	A. Yes.
18	Q. And do you have any reason to doubt the
19	accuracy of the ground water elevations listed in
20	this chart?
21	MS. GALE: Objection. There's been no
22	foundation laid that he could establish this is
23	accurate in the first place.
24	HEARING OFFICER HALLORAN: I agree. Sustained.

	Page 168
1	MR. WANNIER: Your Honor, this is yet another
2	example of a document that was produced to us with
3	no accompanying pages on either side and no
4	explanation that has data that is important it make
5	our case.
6	I understand that this is a single table.
7	It is the only example of this table we've been able
8	to find, and Midwest Gen the defendants have
9	produced this document, and we're not able to get
10	this through another way.
11	HEARING OFFICER HALLORAN: That's why I
12	suggested for the last, I don't know how many
13	months, to get together to try to work things and
14	hone things down.
15	Lately, you been giving me questionable
16	cumulative and duplicate stuff. You know, the other
17	stuff you've been giving me, exhibits, some have too
18	many pages on them. Some don't have enough.
19	There seems to be a pattern. I can't
20	really with this. If he can't testify to the best
21	of his knowledge, this is true and accurate, I can't
22	see him stating yes or no.
23	So, I sustained, and you know Ms. Gale's
24	objection, but we've got to do a better job on

Page 169 exhibits and laying foundation. It doesn't take 1 2 much. 3 MR. WANNIER: I understand, your Honor. 4 HEARING OFFICER HALLORAN: I don't ask for 5 much. If you were to offer this into evidence, I 6 would say no. 7 MR. WANNIER: We would like to submit it as an 8 offer of proof. 9 HEARING OFFICER HALLORAN: Very well. The surrounding testimony regarding this Exhibit 265 10 11 will be taken under an offer of proof. 12 MS. GALE: Okay. 13 HEARING OFFICER HALLORAN: Thank you. 14 BY MS. DUBIN: 15 Mr. Gnat, we're placing before you what Ο. 16 has been marked as Group P, which includes Plaintiff 17 Exhibits 267P through 270P. When you are ready. 18 MS. GALE: Are we skipping 266? 19 MS. DUBIN: We are. We're not offering that as 20 an exhibit. 21 MR. WANNIER: We can also clarify now, for the 22 record, that we did not offer any Exhibit 221 as 23 well, Complainant Exhibit 221. 24 THE WITNESS: Okay.

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 170 1 BY MR. WANNIER: 2 Do you recognize these documents? Q. 3 Yes, I do. Α. 4 And can you describe them, please, for the Q. 5 record? 6 Α. The first document, Exhibit 267P, is a 7 quarterly ground water monitoring report, Waukegan 8 station, third quarter 2013. 9 Exhibit 268P is the annual applicable 10 standards quarterly ground water monitoring report 11 Waukegan station fourth quarter 2014. Exhibit 269P 12 is the annual and quarterly ground water monitoring 13 report Waukegan station fourth quarter 2016. 14 And 270P exhibit is the quarterly ground 15 water monitoring report Waukegan station second 16 quarter 2017. 17 Ο. Thank you. Can you turn to Complainant's 18 Exhibit 268? 19 Α. Okay. 20 This is, again, the fourth quarter 2014 Ο. and annual ground water monitoring results, correct? 21 22 Α. Correct. 23 Can you please turn to Bates number page Q. 24 45329?

Page 171 1 Actually, let me start by directing you to 2 45331. 3 Α. Okay. 4 That you can see this is written by Mark Q. 5 Nagle, the station manager, correct? 6 Α. It is signed by him, correct. 7 Signed by him, thank you. This letter --0. 8 what role did you have in preparing this letter? I prepared the letter. 9 Α. 10 You prepared the letter and he signed it? Q. 11 Correct. Α. 12 If you turn to 45329, the summary of Q. analytical data, and I should say 45329 through 13 14 carrying over onto 45330. 15 The analyses on 45330 are KPRG's analyses? 16 MS. GALE: Objection to the term of "analysis." 17 BY MR. WANNIER: 18 I'm sorry, the opinions in this section Q. 19 were developed by you through -- or by KPRG, 20 correct? MS. GALE: Objection to the term "opinions." 21 22 MR. WANNIER: Your Honor, I think these are 23 within the scope. I don't know what she wants me to 24 call them.

Page 172 MS. GALE: You have not established these are 1 2 opinions. 3 HEARING OFFICER HALLORAN: Sorry? 4 MS. GALE: There's been no establishment that 5 these are opinions on page 45330. 6 HEARING OFFICER HALLORAN: You might want to have back up and rephrase. Thank you. 7 8 BY MR. WANNIER: 9 Does are section entitled, "Summary of Q. Analytical Data," which begins on 45329, contain 10 11 KPRG's opinions on the analytical data that's 12 presented? They contain our observations as we state 13 Α. in the report, "No further observations." 14 15 Okay. And did KPRG make the determination Ο. 16 which observations were noteworthy enough to be 17 included in the section? 18 Α. These were my observations. 19 Thank you. Can you please turn on 45330 Q. 20 to the second bullet point? 21 Α. Okay. 22 Q. And there you say that "Monitoring wells 23 05 is immediately up gradient of the ash ponds and 24 monitoring well 07 is slightly site gradient to the

Page 173 south, correct? 1 2 Α. That is correct. 3 Ο. Okay. 4 At this point, I would like to MR. WANNIER: 5 offer as demonstrative an excerpt from Plaintiff's Exhibit 45816. 6 7 I'm sorry, Complainant Exhibit 19D, which 8 is Bates number 45816, and I'm representing this is 9 a map --10 MS. GALE: Hold up. MR. WANNIER: I'm offering an exhibit. 11 So you 12 don't have to dig through. 13 MS. GALE: Okay. 14 MR. WANNIER: You can confirm, if you want. 15 MS. GALE: Mr. Halloran, as we objected to this 16 document earlier in this proceeding, this is a 17 Commonwealth Edison document prepared by NSRP, a 18 consultant of Commonwealth Edison, and we object to 19 the production of the entire document. 20 We object to the use of the map. We 21 certainly object to the use of the map with this 22 witness who may have not seen this before. We again 23 move to strike any testimony that is related to the 24 map or this.

Page 174 MR. WANNIER: Once again, your Honor, we're 1 2 using this as demonstrative. This is a map of the 3 This exhibit has already been admitted into site. evidence. 4 5 HEARING OFFICER HALLORAN: I understand. There 6 is no other maps out there that Ms. Gale suggested 7 that you could use? 8 I know I let the other one in, and I'm 9 leaning towards that way too, since it's 10 demonstrative. I'm confused. MR. WANNIER: If your Honor would give me 11 another moment, I can try to find another map to 12 13 use. 14 Honestly, your Honor, none of the other 15 maps that have been provided by defendants in this 16 case provide the level of detail about the site, 17 including terminology that's used to describe different areas of the site, and that's -- that 18 19 terminology is important to us being able to discuss 20 the sites. 21 HEARING OFFICER HALLORAN: The objection is 22 overruled. Its's demonstrative, but the Board will 23 note Ms. Gale's objection. You may continue. 24

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 175 1 BY MR. WANNIER: 2 Mr. Gnat, if you look at this Q. 3 demonstrative 458 - Midwest Gen 45816, do you see in 4 the bottom where there are two fly bottom ash 5 settling basins? 6 Α. I see that they are depicted on this map. 7 I'm not sure what you want me to do with that 8 observation. 9 Do you recognize this map? Q. I've seen this map in the context of this 10 Α. It was done for Commonwealth Edison. 11 phase 2. 12 Are you aware what the fly and bottom ash 0. settlement basins are depicting on this map? 13 14 MS. NIJMAN: Mr. Halloran, we would object at 15 this point. Counsel said they were going to use 16 this as a demonstrative exhibit. 17 So, they need to establish it is a reasonably accurate picture of whatever it is 18 19 demonstrating, and I don't think they can do that 20 with this witness. 21 Now, they are asking him to explain things 22 what things are on this map. 23 I am simply trying to orient the MR. WANNIER: 24 witness on this map, making sure that he is

Page 176 sufficiently oriented for me to ask the questions I 1 2 need to ask. 3 HEARING OFFICER HALLORAN: You may continue. Overruled. 4 5 BY MR. WANNIER: Mr. Gnat, without -- and just to clarify 6 Q. 7 for defense counsel, without confirming any labels 8 on this map, what is your understanding of what the 9 two sections of the bottom ash settling basins are? I don't know what these are intended to 10 Α. depict, but I do know that the outlines of the 11 12 current east ash pond and west ash pond are quite different that what is shown here. 13 14 Ο. Are the east and west ash ponds located in 15 the same general part of the Waukegan site, to your 16 knowledge? 17 Α. They would appear to be. Let's turn to Plaintiff --18 Q. 19 HEARING OFFICER HALLORAN: Complainant. 20 BY MR. WANNIER: 21 Q. Complainant, excuse me. Complainant 22 Exhibit 263. If you could pull that. 23 MS. GALE: Mr. Halloran, I move to strike all 24 testimony related to the demonstrative exhibit.

Page 177 They haven't established it's reasonably accurate, 1 2 nor have they established how they are using it with this witness. 3 MR. WANNIER: I am about to use it with this 4 5 witness. I'm using another map to help orient the 6 witness so he can understand the demonstrative. 7 HEARING OFFICER HALLORAN: I'm trying to find 263. 8 9 MR. WANNIER: 10 HEARING OFFICER HALLORAN: Thank you. I've 11 found it. Please. Proceed. 12 BY MR. WANNIER: Looking at 263 -- if can you turn to Bates 13 0. 14 page 608. Are you there? 15 Α. Yes. 16 And can you see on that map the west ash Q. 17 pond and the east ash poind? 18 Α. Yes. 19 Do you see directly to the north and 0. 20 extending slightly to the northeast from there that there is a coal pile? 21 22 Α. Yes. 23 And if you turn to the demonstrative page, Q. 24 do you see the rightmost of the two fly bottom ash

Page 178 1 settling basins? 2 Α. If that's what those are. I don't know if 3 those are the correct terms. I don't know how they got that. Yes, I see where you are orienting to the 4 5 map. 6 Ο. Okay. And do you see on the demonstrative 7 where the coal storage area is directly north and 8 extends to the northeast of the eastern more of what 9 are labeled as the fly bottom ash settling basin? 10 On that map, that's the label, yes. Α. Thank you. And, actually, staying on page 11 Ο. 12 608, do you see monitoring wells 5 and 7? 13 Α. Yes. 14 Ο. Would you agree that monitoring well 5 is 15 directly west of the west ash pond? 16 Α. Yes. 17 Q. Would you agree monitoring well 7 is 18 directly southwest of the west ash pond? 19 Α. Yes. 20 And are you aware -- actually, staying on Q. 21 page 608, do you see the roughly rectangular field 22 directly to the west of the west ash pound, the west 23 end of which would be monitoring well 6? 24 Α. Yes.

	Page 179
1	Q. And that rectangle extends up to what
2	appears a road to the north that also goes past the
3	west ash pond?
4	A. Yes.
5	Q. Are you aware of what is in that area?
6	A. Only anecdotally. I don't know what is in
7	that area.
8	Q. What anecdotal information are you aware
9	of?
10	MS. GALE: Anecdotal are not facts.
11	MR. WANNIER: He just testified
12	HEARING OFFICER HALLORAN: Sustained.
13	Rephrase.
14	BY MR. WANNIER:
15	Q. I understand you don't have direct
16	knowledge.
17	Have you ever received any information
18	that might give you knowledge of what is in that
19	location?
20	MS. GALE: I'm sorry, I missed that question.
21	Can you say it again?
22	MR. WANNIER: Yes.
23	BY MR. WANNIER:
24	Q. Have you received any information that

Page 180 would speak to what is in that rectangular are we're 1 2 discussing? 3 MS. GALE: Objection, hearsay. 4 THE WITNESS: There's no information as to 5 specifically what's in that area. I've never seen 6 any date borings from that area. 7 BY MR. WANNIER: 8 Okay. Well, looking at the ground water, 0. 9 this is -- again we can see the ground water contour map in this figure, right? 10 11 Α. Yes. 12 And do you see the arrows pointing roughly 0. 13 south and east on that contour map? 14 Α. Yes. 15 So would it be fair to say monitoring Q. 16 wells 5 and 7 are down gradient from the rectangular 17 area we've been discussing, according to your 18 contour map? 19 They're in that down gradient direction, Α. 20 yes. 21 Q. Okay. And turning back to Exhibit 26 --22 sorry, one moment, your Honor. 23 Turning back to Complainant Exhibit 268P, 24 which as we have discussed, it is the ground water
Page 181 monitoring results for fourth quarter 2014 annual? 1 2 Α. Okay. 3 And turning back to page 45 -- Bates 0. 4 45330, that exhibit, and I'll wait for the Hearing 5 Officer. 6 Α. Okay. 7 HEARING OFFICER HALLORAN: Which one is it, Mr. Wannier? 8 9 MR. WANNIER: It is 268P beginning at Bates 10 45328. 11 HEARING OFFICER HALLORAN: If I need it, I'll 12 find it. 13 MR. WANNIER: I only have one question. 14 HEARING OFFICER HALLORAN: Okay, thank you. 15 BY MR. WANNIER: 16 Do you see in the second bullet point Q. 17 where it says, "Bore on concentrations again at wells 5 and 7 are consistently higher than at the 18 other locations"? 19 20 Α. Yes. 21 Q. No further questions of this exhibit. 22 Thank you. 23 MR. WANNIER: Complainant would move for 24 admission for Group Exhibit P, which includes

Page 182 Exhibits 267 through 270? 1 2 HEARING OFFICER HALLORAN: Ms. Gale? 3 MS. GALE: No objection. 4 (Complainant Exhibit No. P was 5 admitted into evidence.) 6 HEARING OFFICER HALLORAN: Good time to take a 7 break, do you think? 8 MR. WANNIER: Great time to take a break. 9 HEARING OFFICER HALLORAN: See you 3:00 o'clock about. Off the record. Thank you. 10 11 (Recess taken.) 12 BY MR. WANNIER: 13 We're placing before you what's been 0. 14 marked as Complainant Exhibit 271, which is a series 15 of ground water tables depicting monitoring wells at 16 Waukegan. 17 Are you familiar with this document? This is a table certainly in our format. 18 Α. 19 It's entitled "Table 2 Ground Water Annual Results 20 for Midwest Generation Waukegan Station." 21 And it shows data from 2010 through August 22 of 2014. What report this came out of, I'm not 23 sure. 24 But you have seen those tables before? Q.

	Electronic Filing: Received, Clerk's Office 10/31/2017
	Page 183
1	A. This appears to be one of our tables.
2	Q. Okay. And clipping through them, they all
3	include ground water monitoring data at Waukegan,
4	correct?
5	A. Correct.
6	Q. Do you have any reason to doubt the
7	accuracy of these tables?
8	MS. GALE: I'm going to object to that question
9	because there is no analytical attached to this.
10	Again this doesn't have KPRG's name on top of it.
11	And, finally, this data is from 2010 to
12	2014, which is in reports, multiple reports now,
13	that have been admitted into evidence. So this data
14	on here is duplicative and it's cumulative evidence,
15	and we object to the use or admission of this
16	document.
17	HEARING OFFICER HALLORAN: Let me say this
18	before I ask for a response. Mr. Gnat did say it
19	looks like the same format his company uses.
20	So but in any event, sir, any response?
21	MR. WANNIER: Yes, I was going to say exactly
22	that. He testified
23	HEARING OFFICER HALLORAN: Is it duplicative?
24	MR. WANNIER: We do not believe it is

Page 184 duplicative because it includes monitoring 1 2 information for monitoring wells 8 and 9 that is not 3 included in the ground water reports. 4 We did get other monitoring well 8 and 9 5 data introduced as group exhibits this morning, but 6 that data is different from this one because, again, it measures differently as we have discussed 7 8 previously. I'll furthermore state for this exhibit 9 and also the next one, before introducing, 10 11 complainants specifically reviewed the production; 12 and in that production, defendants explicitly delineated different documents with bookmarks, and 13 these pages were delineated completely independently 14 15 in the production that was made. 16 MS. GALE: I don't understand his 17 representation. I will say that I continue to believe this is duplicative and cumulative evidence. 18 19 Additionally, we have no ability to 20 understand whether it is accurate. There is no data 21 books attached to this. There are no to analytical 22 data. 23 We don't know if there are transcription 24 errors in this these tables. It would be impossible

Page 185 to establish the data in these tables is accurate. 1 2 MR. WANNIER: Your Honor, that would go to the 3 weight and not the admissibility. 4 HEARING OFFICER HALLORAN: I totally agree. 5 Mr. Gnat did say he's familiar with this. So, I'm 6 going to overrule. 7 This can go forward. I don't think you've 8 moved this yet. 9 MR. WANNIER: We have not. 10 HEARING OFFICER HALLORAN: Right. You may 11 proceed. 12 BY MR. WANNIER: 13 I believe my question was: Do you have 0. 14 any reason to doubt the accuracy of this 15 information? 16 I can take it through page 43857, and the Α. 17 reason being, yes, these are our format, and it's pages 1 through 9 of table 2, and I would imagine I 18 19 can find within the report stack here, either this 20 exact table, or some of the backup. 21 But then we get to page 43859, ELUC MW-11, 22 or prior to that on 43858, ELUC MW-10, no longer 23 part of the 9-page table 2. And in order for me to 24 say, "Yes, this is accurate," I would like to go

	Page 186
1	back I would have to go back.
2	And since we don't usually include these
3	in summary reports, I would have to go back through
4	and just be able to tag them to the data package
5	they come from.
6	MR. WANNIER: Can I just clarify that response?
7	BY MR. WANNIER:
8	Q. You said the portion of the exhibit that
9	you would have to confirm begins at 43858; is that
10	correct, or is it
11	A. 43858.
12	Q. Okay.
13	MR. WANNIER: Complainants would move for
14	introduction of Midwest Gen Bates Nos. 43849 through
15	43857 as Complainant Exhibit 271.
16	I understand it's 458 is 858 is on the
17	back of the page, so we can provide clean copies
18	tomorrow morning.
19	HEARING OFFICER HALLORAN: What about
20	Mr. Gnat's statement that he said pages 43849
21	through 43856, was that it?
22	THE WITNESS: 857.
23	HEARING OFFICER HALLORAN: 43857, that can be
24	found somewhere else in the exhibits, but

Page 187 Mr. Wannier said that, "No, there's different ground 1 2 watering reports on these different wells." MR. WANNIER: It is our belief that the 3 4 monitoring wells and the dates were sampled on the 5 dates in that chart and are there, but were not 6 analyzed necessarily in the same way. 7 We would have to confirm there are two 8 different ways to analyze the ground water sampling point. One is looking at the total recoverable 9 10 amount, and the other is the dissolved amount. 11 I can ask the witness questions about 12 whether those amounts would be similar, but it is 13 our belief that this contains data that is separate 14 from what exists in the reports. So, we believe 15 this is still necessary information. 16 Furthermore, this contains monitoring 17 reports from 8 and 9, which don't actually exist in 18 the reports. The only information we have from 19 monitoring wells 8 and 9 was from the Test America 20 lab data. So there would be not be the information 21 in the ground water reports that the witness 22 referred to. 23 HEARING OFFICER HALLORAN: You know this is 24 confusing.

Page 188 1 MR. WANNIER: I do very much agree that it is 2 confusing. 3 HEARING OFFICER HALLORAN: I'll allow you to 4 ask some questions. You haven't moved this yet, 5 right? 6 MR. WANNIER: No. 7 HEARING OFFICER HALLORAN: Okay. So, what 8 about are you going to provide a clean copy again? 9 MR. WANNIER: We will provide a clean copy of 10 this exhibit. 11 HEARING OFFICER HALLORAN: So, over objection, 12 I'll allow Complainant's Exhibit 271, Bates stamped 43858, to -- help me out here. 13 14 MR. WANNIER: I believe the range begins at 15 43849. 16 HEARING OFFICER HALLORAN: Okay, 43849. Sorry. 17 MR. WANNIER: And ends at 43857. The witness 18 could help me out. 19 THE WITNESS: That is correct. 20 HEARING OFFICER HALLORAN: So, then, you'll 21 provide a clean copy deleting the rest of the pages? 22 MR. WANNIER: Yes. 23 THE WITNESS: Excuse me. Again, not knowing 24 which document this came from, I recognize this

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Page 189
 1
     isn't our format.
 2
               We got the sequential pages 1 through 9 on
 3
     here, but I know -- so, if you go through all the
 4
     pages, our bottom footnotes are all the same on all
 5
     these tables, the way we usually do it.
 6
               And then I get to wells 8 and 9, and the
     footnotes are different. They are set up different.
 7
 8
     That's my only difference I can see.
 9
     BY MR. WANNIER:
10
               Which pages are you referring to?
          Q.
          Α.
               856 and 857.
11
12
               Do those pages otherwise appear to be
          Q.
     styled in the typical style of KPRG?
13
14
          Α.
               Yes.
15
          MR. WANNIER: We would maintain our motion.
16
          HEARING OFFICER HALLORAN: Okay. I'll admit
17
     it.
          Plaintiff's Exhibit 271, with that noted on the
     record from 43859 through 43857.
18
19
                          (Complainant Exhibit No. 271 was
20
                          admitted into evidence.)
21
          MR. WANNIER:
                        Thank you, your Honor. We have
22
     one more of those, and I believe that is the last
23
     one.
24
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	Electronic Filing: Received, Clerk's Office 10/31/2017
	Page 190
1	BY HEARING OFFICER HALLORAN:
2	Q. I'm placing before you next, Mr. Gnat,
3	what is marked as Complainant's Exhibit 272, which
4	contains again Waukegan ground water analytical
5	results.
6	A. Which?
7	Q. Mr. Gnat, do you recognize this document?
8	A. I recognize this document. It's titled,
9	"Draft Ground Water Analytical Results Waukegan
10	Station."
11	So, I'm not sure which of the report this
12	was going to, and it's certainly a table that I
13	can't attest. It might contain errors, because it's
14	still in the draft format. So, I don't know if it's
15	gone through our QAQC to remove the draft.
16	MR. WANNIER: In recognition of the difficulty
17	here, complainants are willing to withdraw this
18	exhibit.
19	HEARING OFFICER HALLORAN: Thank you.
20	MR. WANNIER: I'll take that back.
21	BY MR. WANNIER:
22	Q. Mr. Gnat, we're now placing before you
23	what's marked as Complainant's Exhibit 273. It will
24	be one moment.

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 191 1 And this begins at Bates number 12822, and 2 we are presenting for the record the inspection 3 summary letter for Waukegan. 4 Do you recognize this document? 5 Α. Yes. 6 Ο. Actually, I would -- before that, there is 7 a little complication here. We would also like to 8 place before you Complainant's 12827. I'm sorry, 9 Complainant's 274, which is Midwest Generation Bates 10 12827 to 45. 11 There is a complication here with the way 12 this letter was produced. We're going to need to

13 work with the witness, I believe.

Mr. Gnat, do you recognize Complainant's Exhibit 274? If it will assist you, I can try to represent what's happened here.

A. If you could, because I'm completelyconfused right now.

19 Q. It was very confusing to me as well. I
20 believe that these are two copies of the same
21 letter, with the exception that Complainant's
22 Exhibit 273, does not have any of the attachments
23 listed at the end of the letter, and Complainant's
24 Exhibit 274 does have those attachments.

	Page 192
1	However, there are two pages in the middle
2	of the letter that have been pushed back two pages,
3	and they exist on Midwest Gen Bates 12831, and so
4	Exhibit 274 was produced to us out of order?
5	MS. GALE: Mr. Hearing officer, can we go off
6	the record?
7	HEARING OFFICER HALLORAN: Yes, you may.
8	(Discussion off the record.)
9	HEARING OFFICER HALLORAN: We're back on the
10	record. Thank you.
11	BY MR. WANNIER:
12	Q. Complainants are withdrawing Complainant
13	Exhibit 273.
14	If you turn to Complainant 274, can you
15	describe what this document is?
16	A. This document is a letter from KPRG to
17	Maria Race of Midwest Generation dated August 31st,
18	2005, titled "Inspection Summary Letter Regarding
19	Liner Inspection West and East Ash Pond at the
20	Waukegan Station."
21	Q. Okay. Can you please turn to Midwest Gen
22	Bates 12830? And also to Midwest Gen Bates 12831.
23	Upon reviewing those two pages, is it your
24	belief that Midwest Gen Bates 12831 and 12832 should

Page 193 properly follow directly from Midwest Gen Bates 1 2 12828 and, therefore, come before Midwest Gen Bates 12129 and 12130? 3 4 Α. 12829? 5 Q. 12829 and 12830? 6 Α. Yes. 7 Thank you. Can you please turn Q. Okay. 8 to -- can you please turn to patients 13832? 9 Okay. Α. I'm sorry, can you describe generally what 10 Q. 11 this document is? 12 KPRG was requested by Midwest Generation Α. 13 to inspect the liner of the west and east ash ponds 14 at Waukegan station and provide the observations and 15 any thoughts. 16 Okay. And the east and west ponds were Q. 17 both relined with an HDP layer, correct? 18 I'm sorry, you said layer or liner? MS. GALE: 19 Liner. I misspoke. MR. WANNIER: 20 It is my understanding that they THE WITNESS: 21 had been lined with an HDP liner at some point prior 22 to our inspection, yes. 23 BY MR. WANNIER: 24 It was prior to the inspection that Q.

Page 194 eventually did this report, correct? 1 2 Α. Correct. 3 Okay. Staying on 12832, do you see No. 7? Ο. 4 Α. Yes. 5 Did you have any reason to believe Q. 6 anything in this letter or the attachments are not 7 accurate, any of your statements were inaccurate? 8 Α. The person who wrote most of this was not 9 myself. I'm not an engineer, nor a liner expert, 10 and liners are an interesting animal. 11 There is one expertise in designing a 12 liner, and then there's also an expertise in laying 13 that liner. In general, the people who design the 14 liner probably never laid one; and the people who 15 lay the liner, haven't designed one. 16 When we were asked to do this, we brought 17 on an associate, Chris Swires, who is both a design engineer for liners, as well as working for a liner 18 19 installation company. So he's actually seen both 20 sides. 21 Most of the observations written here were 22 his observations on our behalf, since we contracted 23 So, I can attest to having brought this him. 24 letter, these are his observations that we're

Page 195 summarizing here. 1 2 Okay. And just to confirm, at the time Q. 3 this letter was sent, Mr. Swires was employed by 4 KPRG, correct? 5 Α. He was a contractor of ours, yes. 6 Ο. And did you review his work? I walked with him on the sidewalk. 7 Α. 8 Do you have any reason to mistrust the 0. 9 analysis that Mr. Swires conducted? 10 Α. No. If you turn to Bates 12829, your name does 11 Ο. 12 appear as the first signatory on this letter, 13 correct? 14 Α. Correct. 15 MR. WANNIER: Complainants move for admission 16 of Complainant's Exhibit 274. 17 MS. GALE: No objection. 18 HEARING OFFICER HALLORAN: Thank you. 19 Complainant's Exhibit 274 is admitted. 20 (Complainant Exhibit No. 274 was 21 admitted into evidence.) 22 BY MR. WANNIER: This is our last exhibit for Waukegan. 23 Q. We 24 will be placing before you Complainant's

Page 196 Exhibit 275, which is a letter -- we're representing 1 it is a letter that you wrote to Ms. Andrea Rhodes 2 3 at the Illinois EPA. Do you recognize this document? 4 5 Α. Yes. 6 Ο. And can you describe this document? That document is a letter from Midwest 7 Α. 8 Generation to Ms. Andrea Rhodes with Illinois EPA 9 dated January 15, 2013, regarding the compliance commitment agreement, well installation 10 11 documentation, Midwest Generation Waukegan station. 12 0. Okay. You can see there are attachments to this letter. 13 14 They were sent with this letter right? 15 Sorry, on Midwest Gen Bates page No. 596 through 16 598. 17 Α. Yes. 18 Q. Turn first to 597. There is a boring log 19 for monitor well 6; is that correct? 20 That is correct. Α. 21 Q. And if you look on the third line, under 22 description of the boring log, it says, "Black silty 23 clay, organic, slightly moist," correct? 24 That is what it says, yes. Α.

Page 197 1 Is it possible that those black layers Q. 2 include co-ash? 3 MS. GALE: Objection, calls for speculation. 4 HEARING OFFICER HALLORAN: He may answer if 5 he's able. 6 THE WITNESS: I don't think so. The reason I 7 say this, the person who logged this is Patrick 8 Allenstein, who is the same person who logs some of 9 the geotechnical borings that you had. 10 When he saw those observations, he listed them, the same person. And on this log he describes 11 12 it as a black silty clay, organic slightly moist. Ι 13 don't see any ash or slag in that. 14 Okay. But you don't know for sure? 0. 15 MS. GALE: Objection. 16 HEARING OFFICER HALLORAN: Sustained. 17 MR. WANNIER: The basis for the objection? 18 MS. GALE: He just said he knows Patrick, how 19 he did these logs. He knows how he does it. He 20 looks at the prior logs that came in. HEARING OFFICER HALLORAN: Sustained. 21 22 BY MR. WANNIER: 23 You said you didn't think so. Q. Did you 24 intend to imply more certainty with that statement?

Page 198 1 MS. GALE: I'm sorry, I missed the question. 2 Can you repeat it? 3 MR. WANNIER: He testified he didn't think so, 4 when I asked my previous question. I was wondering 5 what level of certainly he was intending to imply 6 with that statement. 7 THE WITNESS: I have an eye level of certainty. 8 This is a senior geologist of ours. Him and I log 9 in a very similar way. 10 I saw his logs before, which clearly did 11 indicate some of that material; and in this case, 12 he's not indicating this. It is the same person 13 generating these logs. If he did not see it, it's not here. 14 15 BY MR. WANNIER: 16 Understood. I simply wanted to clarify. Q. 17 Thank you for your answer. 18 MR. WANNIER: Complainant's move for admission 19 of Complainant's 275. 20 HEARING OFFICER HALLORAN: Ms. Gale? 21 MS. GALE: No objection. 22 HEARING OFFICER HALLORAN: Thank you. 23 Complainant's Exhibit 275 is admitted. 24

	Electronic Filing: Received, Clerk's Office 10/31/2017
	Page 199
1	(Complainant Exhibit No. 275 was
2	admitted into evidence.)
3	BY MR. WANNIER:
4	Q. Mr. Gnat, we are now placing before you
5	what has been marked as Complainant's Exhibit 276,
6	which we are representing is the compliance
7	commitment agreement ground water management zone
8	application for the Will County station.
9	Do you recognize this document?
10	A. Yes, I do.
11	Q. And can you describe it, please, for the
12	record?
13	A. This is a letter from Midwest Generation
14	from Ms. Andrea Rhodes from Illinois EPA dated
15	January 18, 2013, regarding compliance commitment
16	agreement ground water management zone application
17	Will County generating station.
18	Q. Can you please turn to 625 in that
19	exhibit?
20	A. Okay.
21	Q. This is a map of a proposed water
22	management zone?
23	A. Correct.
24	Q. And the zone is delineated in the hashed

Page 200 roughly square-shaped area in the center of the map? 1 2 Α. Yes, that is the proposed ground water 3 management zone, yes. 4 Does that -- well, first of all, do you Ο. 5 see in the middle of that where it says, "Com Ed retains tract"? 6 7 Α. Yes. 8 Are you aware of what that is? Ο. 9 MS. GALE: Objection, lack of foundation. 10 MR. WANNIER: I'm literally asking him --11 HEARING OFFICER HALLORAN: He can answer, if he's able. 12 THE WITNESS: I believe that is a portion of 13 14 the property within our property or Midwest Gen's 15 property that is owned by Com Ed. 16 That might be their switching yard or 17 something that they still retain as part of their 18 tract. 19 BY MR. WANNIER: Okay. You know what the extent is of the 20 Ο. 21 Will County site, correct? 22 MS. GALE: Objection, lack of foundation. 23 BY MR. WANNIER: 24 Do you know how large the Will County site Q.

	Electronic Filing: Received, Clerk's Office 10/31/2017
	Page 201
1	is?
2	A. I don't remember offhand how large it is.
3	I basically know the layout of the facility.
4	Q. Okay. Let me ask this: Does the proposed
5	ground water management zone cover the entirety of
6	the Will County site?
7	A. No, it does not.
8	Q. Let's turn to page 643. Actually, while
9	you were turning there, do you have any knowledge
10	why it does not cover the entire site?
11	A. That was the area that was defined was
12	based on discussions between Midwest Generation and
13	Illinois EPA during the discussion on the scope of
14	the CCA.
15	Q. And were you privy to any of those
16	discussions?
17	A. Some, but not discussions directly with
18	IEPA. I was not in those meetings discussing the
19	scope of the CCA. I was contracted to assist in
20	developing materials for it.
21	Q. Understood. What conversations regarding
22	the scope were you privy to?
23	A. With IEPA, it would be written
24	correspondence or a telephone call with Lynn

Page 202 Dunaway, just to clarify any comments. 1 2 So, we would do a submittal with the 3 proposed GMZ, and we would get comments, and I would 4 be then assisting with addressing those comments. 5 And that's where any interaction that I would have would be to get an understanding of why 6 or what's driving IEPA's comments here so I can 7 8 understand it and try and address it properly and 9 get the document finalized. 10 Why did the GMZ -- the proposed GMZ not Q. cover the full site? 11 12 MS. GALE: Objection, asked and answered. MR. WANNIER: He hasn't actually answered it. 13 14 HEARING OFFICER HALLORAN: I agree. Overruled. 15 THE WITNESS: That wasn't a -- that size of the 16 GMZ wasn't part of the discussions I had with the 17 EPA that I had on this. 18 None of their comments that came back 19 indicated any larger or smaller area that I 20 remember, relative to the GMZ. So, I just may have 21 had -- you know, trying to understand what it was. 22 For example, one document where we had 23 some disagreements. So, I got an understanding of 24 why they wanted this additional upgrade as well.

Page 203

	Page 203
1	Now, why this was the size it was, again,
2	that was part of that initial discussion with the
3	scope and discussion between Midwest Generation and
4	IEPA. There wasn't anything there that I had any
5	questions on. I wasn't part of that conversation.
6	BY MR. WANNIER:
7	Q. So, did you provide any information did
8	you assist Midwest Generation at all in trying to
9	figure out what an appropriate scope of the GMZ
10	should be?
11	MS. GALE: Objection, mischaracterizes his
12	testimony. He said it is between Midwest Generation
13	and the Illinois EPA and the GMZ.
14	MR. WANNIER: I'm simply asking
15	HEARING OFFICER HALLORAN: He can answer, if
16	he's able. Overruled. Mr. Gnat?
17	THE WITNESS: I'm not sure I can answer
18	completely to your satisfaction.
19	I certainly developed the package of the
20	GMZ application as to describe, as I understood what
21	the agreements were with the initial discussions
22	between Midwest Generation and IEPA, and that being
23	this zone that is identified here as the proposed
24	ground water management zone focusing on the area

Page 204 associated with the VNs, violation notices. 1 2 BY MR. WANNIER: 3 Let me back up a second. Is it fair to Ο. 4 say -- so, you're saying Midwest Generation and IEPA 5 had a discussion about the scope of the GMZ, 6 correct? 7 Α. That is my understanding. 8 Ο. Midwest Generation presumably came into 9 those discussions with a position on what an appropriate scope would be? 10 11 Objection, calls for speculation. MS. GALE: 12 HEARING OFFICER HALLORAN: Sustained. 13 MR. WANNIER: Okay. 14 BY MR. WANNIER: 15 Did you provide any information or Ο. 16 analysis to Midwest Generation that informed -- that 17 might have informed them on the question of what an 18 appropriate ground water management zone scope 19 should be? 20 MS. GALE: Objection to the characterization of 21 appropriate ground water management zone. 22 HEARING OFFICER HALLORAN: I'm sorry? 23 MS. GALE: Objection to the characterization of 24 ground water management zone. I don't know what

Page 205

1 "appropriate" means. Vague.

2 MR. WANNIER: I'll state it again.

3 HEARING OFFICER HALLORAN: Thank you.4 BY MR. WANNIER:

Q. Did you provide any information to Midwest Generation that might -- or analysis, that might have informed them as to what the scope of the ground water management zone should be?

9 A. My only input on these issues was done 10 under counsel privilege. I did not sit down and 11 square out for Midwest Generation, "Here, this is 12 the area to throw in front of the IEPA." No, I did 13 not do that.

Q. That last part wasn't my question. Are you saying any information you provided would be subject to privilege?

A. When I brought on with this matter originally, for helping to address the violation notices, I was hired by counsel to provide some thoughts, and all of that was done under client privilege.

Relative to this particular map, and the history behind how it got to here, I don't think I have all the pieces that you're asking about. I

1 honestly don't think I have all that information to 2 give you an answer.

MS. NIJMAN: Mr. Hearing Officer, for the record, Midwest Generation does not waive its attorney-client or attorney work-product privilege with respect to this matter.

7 BY MR. WANNIER:

8 Were your discussions with Midwest 0. 9 Generation, where you may have provided any information or analysis concerning scope of the 10 ground water management, exclusively with attorneys? 11 12 Objection, as he stated, and as we MS. GALE: have stated, we're not waiving attorney-client 13 14 privilege. He was brought on after the violation 15 notices. 16 He assisted in preparation of this was 17 under the -- pursuant to assist legal counsel in

18 preparation for litigation. Even if -- it doesn't 19 matter if it was only with attorneys.

20 Any information he gave Midwest Generation
21 is subject to that privilege.

22 MR. WANNIER: Your Honor, Mr. Gnat is not an 23 attorney. So, his conversations with non-attorneys 24 with Midwest Generation would not involve --

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Page 206

	Page 207
1	HEARING OFFICER HALLORAN: I agree. You know,
2	I understand your position. But I think Mr. Gnat
3	can answer the question, if he's able to, if he was
4	talking with non-attorneys. I think it's a little
5	attenuated.
6	MS. NIJMAN: Can we have a moment?
7	(Pause)
8	MS. NIJMAN: With respect to the scope of our
9	attorney-client and work-product privilege, it
10	covers communications between Mr. Gnat and counsel
11	for Midwest Gen, and work that he provided to
12	counsel at counsel's request and under counsel's
13	supervision is included in the work-product
14	privilege.
15	Even if he did that work, without counsel
16	being present, that is still covered by the
17	privilege, and we would direct the witness not to
18	answer with respect to any information that falls
19	within that scope of doing work at the direction of
20	and for counsel in connection with the violation
21	notices, which clearly satisfies the criteria for an
22	anticipation of litigation.
23	That's the scope of the privilege that we
24	are standing on.

Page 208

1 MR. WANNIER: Your Honor, we don't think that 2 broad scope of privilege is a legitimate claim of 3 privilege, if we're talking about communications 4 between two non-attorneys relating to communications 5 with the Illinois EPA, which is an Illinois 6 governmental body.

HEARING OFFICER HALLORAN: My inclination is to
sustain the objection. I have a feeling Mr. Gnat is
going to be back here tomorrow.

10 You can brief that, if you would like. I 11 will give midwest a chance to respond, but, you 12 know, this has to be done in hours.

13 MR. WANNIER: That's fine.

MS. NIJMAN: Just in addition, and I really don't want to get into briefing that we don't have to get into it, but if counsel is going to inquire in this area, the questions have to be very clear in terms of what communication is he asking about?

Because it's not clear enough, in terms of determining whether the privilege applies. To just say, "Did you have communications where counsel wasn't directly involved?" Because that isn't the only criteria with respect to work-product privilege when counsel has directed the work to be done.

Page 209 1 So, it's difficult for us to explain where 2 and why the privilege applies, unless the questions 3 are more specific. I'm not trying to be difficult. 4 HEARING OFFICER HALLORAN: Ms. Wannier? 5 MR. WANNIER: Okay. I can try asking one last 6 question. If they object and it's sustained, we can 7 address it tomorrow. 8 HEARING OFFICER HALLORAN: Okay. 9 BY MR. WANNIER: 10 Did you recommend -- I'm sorry, is that Ο. okay? 11 12 HEARING OFFICER HALLORAN: Go ahead. BY MR. WANNIER: 13 14 Did you recommend a scope -- a GMZ scope 0. to Midwest Generation? 15 16 MS. GALE: Asked and answered. 17 HEARING OFFICER HALLORAN: He can answer if 18 he's able. Overruled. 19 THE WITNESS: I can't say that I recommended 20 anything specific. We discussed it. 21 MR. WANNIER: Okay, we can address this 22 tomorrow. 23 MS. NIJMAN: Mr. Halloran, could I just ask a 24 question, again, to be able to tell whether or not

Page 210 this is in the area of privilege or not, if we're 1 2 going to debate this further tomorrow? 3 HEARING OFFICER HALLORAN: If we're going to 4 debate it further tomorrow, I need a brief by 5 tomorrow morning at 7:00 o'clock. 6 MR. WANNIER: Would it be okay if defense 7 counsel asks her question? 8 MS. NIJMAN: I don't need to ask my question, 9 unless you are going to brief this issue. 10 MR. WANNIER: Can we have a moment? 11 HEARING OFFICER HALLORAN: Sure, we are off the 12 record. 13 (Discussion off the record.) 14 HEARING OFFICER HALLORAN: Mr. Wannier? 15 MR. WANNIER: I think we're fine not briefing 16 this. We'll move on to our next question. 17 HEARING OFFICER HALLORAN: Okay. Thank you. BY MR. WANNIER: 18 19 Can you please turn to page 3? Ο. 20 HEARING OFFICER HALLORAN: On your Exhibit 276? MR. WANNIER: On Exhibit 276. 21 22 BY MR. WANNIER: 23 Does this appear to be a map of various --Ο. 24 does it appear to be a map of the Will County site?

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 211 Yes, it does. 1 Α. 2 And you see that there are four ash ponds Q. 3 delineated on this map? 4 Α. Yes. 5 Okay. If you can turn to page 644. Q. Do 6 you see there are several monitoring wells depicted around the ash ponds? 7 8 Α. Ten monitoring wells. 9 Ten monitoring wells. Thank you for Ο. clarifying. If you could turn to page 645. 10 11 Does this appear to be a ground water 12 contour map? That is correct. 13 Α. 14 And, again, in preparing this ground water Ο. 15 contour map, did you obtain the surface elevation of 16 nearby waterways? 17 Α. We did not physically measure it. Perhaps this will help explain some of our previous 18 discussions. 19 20 We certainly take into account the fact 21 that there is a surface water body there, when we're 22 looking at other interpretations. 23 In this case, we have an estimated value 24 plus or minus 579 feet, and that is obviously taken

Page 212 into consideration when we drew our map. 1 2 Did you account for changes in the Q. 3 elevation of the surface water over time? 4 This is a map for a specific day. Α. So I 5 did not have a measurement of the surface water here 6 at a particular time. But if I remember correctly, that might be 7 in the average pool elevation for that stretch of or 8 9 that reach of the river. It's plus or minus 579. Where did you obtain that data? 10 Q. I would have to go back and find out is it 11 Α. 12 map versus some actual information on the pool elevation. So the river -- that I don't remember 13 offhand. 14 15 Okay. Can you turn to page 646? Ο. And, 16 once again, this is aerial photo that depicts 17 monitoring well results at the ten monitoring wells at the site, correct? 18 19 It is an aerial photograph of the box plot Α. 20 map of the analytical data for various parameters, that is correct. 21 22 MR. WANNIER: Complainants move for admission 23 of Complainant Exhibit 276. 24 HEARING OFFICER HALLORAN: Ms. Gale?

	Electronic Filing: Received, Clerk's Office 10/31/2017
	Page 213
1	MS. GALE: No objection.
2	HEARING OFFICER HALLORAN: Thank you.
3	Complainant's Exhibit 276 is admitted.
4	(Complainant Exhibit No. 276 was
5	admitted into evidence.)
6	BY MR. WANNIER:
7	Q. We're placing before you Complainant's
8	Exhibit 277, which we are representing is the Will
9	County I'm sorry, complainants are going to
10	withdraw Complainant Exhibit 277. I apologize for
11	that.
12	Complainants now will place before you
13	Group Exhibit Q, which is the last group exhibit,
14	and this includes Exhibits 278Q through 281Q.
15	Do you recognize these documents?
16	A. I recognize a part of this. As I'm going
17	through on the first one, I guess I have a question
18	on this, because I'm not sure all of it is ours.
19	278Q, I believe the extent of that report
20	would end at your Bates page No. 6734. On the back
21	of that attached is some water level data from
22	Patrick Engineering, and some data tables from
23	Patrick Engineering, which I do not think we
24	reference here, which we I don't think we

Page 214 referenced them at all in this report. 1 So, I'm not sure how they got attached to 2 3 this report. 4 MR. WANNIER: Your Honor, the ground water 5 monitoring reports, we printed out three courtesy 6 copies for those parties. Is it okay if I refer to the exhibit that 7 8 the witness is holding or look at it? May I 9 approach the witness? 10 MS. NIJMAN: Are you saying you don't have an 11 exhibit? 12 HEARING OFFICER HALLORAN: Yes. I'm sorry. 13 THE WITNESS: This is the page. It starts 14 on --15 BY MR. WANNIER: 16 Mr. Gnat, can you please turn to Midwest Q. 17 Gen Bates 6671, and if you look at the summary of 18 analytical data on the bottom, do you see a 19 reference to table 2? 20 Α. Yes. 21 Q. If you turn back to the Patrick 22 Engineering pages. 23 This table 2 says, "The field parameter Α. 24 analytical data for the most recent sampling along

Page 215 the previous eight quarters are summarized in 1 table 2." 2 3 So, I go to KPRG's table 2, which is right 4 here, and our field parameter data are summarized, 5 along with the previous eight quarters. What I'm 6 referring to is table 2 from Patrick Engineering 7 that's got ground water elevation data that is referenced that is not part of the this report. 8 9 MR. WANNIER: Your Honor, understood. 10 BY MR. WANNIER: 11 Can you review the other three? Ο. 12 I'm in the process. Α. Do you recognize the remaining documents 13 0. 14 apart from the Patrick Engineering report? 15 Yes, I do. Α. 16 Do you prepare those, or did KPRG prepare Q. 17 those reports? 18 Yes, we did. Α. 19 And do you have any reason to doubt the 0. 20 accuracy of any of the information in these reports, 21 apart from Patrick Engineering data table that we 22 discussed? 23 Α. No. 24 MR. WANNIER: Complainant's will move for Group

Page 216 Exhibit Q as an exhibit encompassing 278 through 1 2 281Q with the proviso that 278 Bates range would be 3 modified. It goes from Midwest Gen 6670 to 6734. 4 HEARING OFFICER HALLORAN: Sorry, 6670 to 67 --5 MR. WANNIER: 34. 6 HEARING OFFICER HALLORAN: Hold on a minute, 7 please. Ms. Gale? 8 MS. GALE: No objection. 9 HEARING OFFICER HALLORAN: We're going to get a 10 clean copy of this? 11 MR. WANNIER: We'll provide a clean copy of this. 12 13 HEARING OFFICER HALLORAN: Give me a minute. 14 (Pause). 15 HEARING OFFICER HALLORAN: All right, thank 16 you. 17 MR. WANNIER: I believe we have a motion. Is there an objection? 18 19 HEARING OFFICER HALLORAN: There is no 20 condition. Group exhibit Q -- 278Q to 281Q is 21 admitted, subject to a clean copy of 278Q. 22 (Complainant Exhibit No. 278Q to 23 281Q were admitted into 24 evidence.)
Page 217 1 MR. WANNIER: Your Honor, can we go off the 2 record for a second? 3 HEARING OFFICER HALLORAN: Sure. (Discussion off the record.) 4 5 HEARING OFFICER HALLORAN: We're back on the 6 record. 7 BY MR. WANNIER: 8 We will place in front of you 0. complainant's Exhibit 284, which is Midwest Gen 9 Bates No. 49565, and we are representing it's a CCB 10 11 determination support for the Will County station. 12 BY MR. WANNIER: Do you recognize this document? 13 Q. 14 Α. Yes, I do. 15 Can you describe it quickly for the Ο. 16 record? 17 Α. This is a summary report from KPRG to Sharene Shealey of Midwest Generation dated 18 19 September 8, 2015, regarding CCB, which is coal 20 combustion byproduct, the determination support, 21 Midwest Generation Will County station. 22 Q. If you look at the first -- what was the 23 purpose of this report? 24 We were asked to evaluate an area at the Α.

Page 218

1 plant there to determine whether or not that 2 material could be classified as coal combustion 3 byproduct for potential beneficial reuse in 4 engineering.

Q. Looking at the second line, it says there that you provided this report with regard to evaluating whether coal ash, formerly deposited at the Will County site, can be classified as coal combustion byproducts, correct? That's a slight paraphrase.

A. It says, so we are both accurate here, KPRG & Associates is pleased to provide this summary letter report with regard to evaluating whether coal ash, formerly deposited at the Midwest Generation Will County station, can be classified as coal combust byproduct CCD."

Q. Thank you. Do you know where -- where is this site on the Midwest Generation -- where is this on the Midwest Generation site with respect to the ash ponds?

A. I did not do this sampling in the field. So, exactly where it's located, I would have to take a look at a larger map and look at our Figure 1 here and key myself in as to where exactly that's located

Page 219 on the plant. 1 2 Can you please turn to Complainant Ο. Exhibit 276? 3 On 276. 4 Α. 5 Turn to page 643. Q. 6 Α. Got it. 7 That is a larger map, correct? Q. 8 Α. Correct. 9 Using that map, can you please identify Ο. where on that map this sampling -- this site is 10 11 located? 12 Okay. I believe this site is located just Α. to the southeast of what's labeled as ash pond 1 13 14 north, in that area there. 15 I see. Just to the southeast, there is a Ο. 16 slightly darker region that corresponds with what 17 appears to be the darker region on page 49569 in complainant's exhibit? 18 19 Α. Correct. 20 Do you have any understanding when this Ο. 21 coal ash was deposited at that site? No, I do not. 22 Α. 23 Did you only become aware of this when --Ο. 24 so, when did you become aware of it then?

Page 220 1 Α. When we were asked to prepare a proposal 2 to sample it. 3 Okay. And can you turn to 49666, which is Ο. 4 the second page of your letter. 5 Turning to the second full paragraph, last full line, do you see where it says, "NLET method 6 ASTMD 3987-85"? 7 8 Α. Yes. 9 Was that the method you used for the leach Ο. 10 test? That is the method that is specified 11 Α. 12 within the Illinois statutes to run it's called the neutral leach test. To run -- to allow us to make 13 this determination for CCB. So, that is the test 14 15 that is within the statute. 16 Okay. Did you use any other test? Q. 17 Α. No, we did not. 18 MR. WANNIER: Complainants move for admission 19 of Complainant Exhibit 284. 20 MS. GALE: No objection. 21 HEARING OFFICER HALLORAN: Thank you. 22 Complainants Exhibit 284 is admitted. 23 (Complainant Exhibit No. 284 was 24 admitted into evidence.)

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 221 1 BY MR. WANNIER: 2 We're now placing before you what is Q. 3 Complainant's Exhibit 285, which we are representing 4 is a Will County coal ash and slag -- wait, I'm 5 Scratch that. sorry. 6 We are going to place before you what's 7 been marked as Complainant Exhibit 286 first, which 8 is -- we're representing is a memo from Midland 9 Standard Engineering and Testing to the witness. 10 Do you recognize this document? I believe so. This is a long time ago, 11 Α. 12 yes. And what is it? 13 Ο. 14 Α. This is A Midland Standard Engineering 15 testing report, analytical report to us. They are a 16 geotechnical testing firm dated August 22nd, 2012, 17 regarding laboratory testing services, Midwest Generation Will County station. 18 19 Okay. And you see in the beginning of the Ο. 20 letter, this is addressed to you, correct? 21 Α. Yes. 22 Q. If you can look at the first page, the 23 full paragraph, under "Laboratory test methods," 24 after the ASTM lines, it begins, "Permeability and

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 222 strength is consistent." 1 2 Did you see that? 3 Α. Yes. 4 If you read further, the second line says, Q. 5 "Hairline cracks were noted at the ends of the core," right? 6 It says, "Additionally, the samples 7 Α. 8 inspected for science of cracking and discoloration 9 -- if cracking and discoloration. Hairline cracks were noted at the ends of the core," yes. 10 What core are you they referring to there? 11 Ο. 12 We collected a core of Poz-O-Pac and sent Α. it off for this analysis. So, apparently the two 13 14 end parts of the core might have gotten cracked up a 15 little bit. That's where he's defining he sent it 16 to. 17 Ο. Do you know what pond this Poz-O-Pac came from at the Will County site? 18 19 The exact pond, I would have to go back Α. 20 and refresh my memory the exact pond number we collected it from. 21 22 MR. WANNIER: The complainants move for 23 admission of Complainant Exhibit 286. 24 MS. GALE: No objection.

 HEARING OFFICER HALLORAN: Complainant exhibit 286 is admitted. (Complainant Exhibit No. 286 was admitted into evidence.) MR. WANNIER: Our last exhibit, other than the confidential one for today, is Complainant's Exhibit 287, which is actually, scratch that. I think we're done introducing exhibits, apart from the confidential exhibit, your Honor. We're actually I have a few more questions, and then I think I may actually be done entirely with the witness. HEARING OFFICER HALLORAN: Are we still on the record? You may proceed, if we are. BY MR. WANNIER: Q. Mr. Gnat, can we go back to your talk a little bit more about your work with Midwest Generation? I understand you began work with them in 2001? A. Very early on, yes. I was still working with a previous employer. Q. Okay. Your work with them expanded in 2012, right? 		Page 223
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23 Q. Okay. Your work with them expanded in	21	A. Very early on, yes. I was still working
	22	with a previous employer.
24 2012, right?	23	Q. Okay. Your work with them expanded in
	24	2012, right?

	Page 224
1	MS. GALE: Objection, vague. What does
2	"Expanded" mean?
3	HEARING OFFICER HALLORAN: Sustained.
4	BY MR. WANNIER:
5	Q. Did the scope of your work change in 2012?
6	A. No.
7	Q. What work were you doing when you first
8	came on in 2001?
9	A. First, let's start from when I started
10	with KPR, which then became KPRG. I introduced my
11	new firm to Midwest Generation at the time.
12	We developed we started some work, I
13	believe, in 2002, 2003 time frame, some small
14	projects, a handful of small projects, and we
15	performed well on those projects, and we got a
16	handful of additional projects.
17	That's typical how you grow a business.
18	And we performed on those and Midwest Generation
19	became more comfortable. We got some larger
20	projects.
21	We got to a point where we were having a
22	fairly good Midwest Generation is a very
23	proactive company. Once they were comfortable with
24	our work, and the quality of our work, they used us

Page 225 to help them with their environmental program, 1 2 implementing their needs to stay in compliance and 3 so on. 4 A good part of our work has nothing to do 5 with these four stations in this issue at all. 6 Ο. Agreed. Understood. Just sort of 7 limiting this to the four stations that are at issue 8 here, you have been working with Midwest Generation 9 to respond to violation notices that were received? 10 HEARING OFFICER HALLORAN: Speak up, please. BY MR. WANNIER: 11 12 You have been working with Midwest 0. 13 Generation to respond to violation notices sent by the Illinois EPA, correct? 14 15 Α. Correct. 16 Okay. And when did you start that work? Q. 17 Α. I would have to -- I received a call. Т don't remember all the exact timeframes, the exact 18 19 time frames when the VNs were issued. But I know 20 when the VNs were issued, that is when I received a call from Midwest Generation, their legal counsel. 21 22 A team was developed. 23 I'll stop you there. Don't get into MS. GALE: 24 privileged conversations.

	Electronic Filing: Received, Clerk's Office 10/31/2017
	Page 226
1	THE WITNESS: Our firm and folks from Midwest
2	Generation and other consulting firms were involved
3	as well.
4	BY MR. WANNIER:
5	Q. Can you please turn to Complainant
6	Exhibit 1A?
7	HEARING OFFICER HALLORAN: I know I'm not going
8	to be able to find it.
9	MR. WANNIER: We can provide it. As long as he
10	has one, I can provide a courtesy copy.
11	THE WITNESS: Okay, I have it in front of me.
12	BY MR. WANNIER:
13	Q. Do you recognize this document?
14	A. That is copy of the violation notice from
15	for Midwest Generation dated June 11, 2012, received
16	June 13th.
17	Q. And does that refresh your recollection as
18	to when the violation notices were?
19	A. Yes, shortly thereafter is when I would
20	have been called to discuss.
21	Q. And that would have been later than 2012,
22	correct?
23	A. Shortly after June 11th, 2012.
24	Q. If you can turn to Complainant

Page 227 Exhibit 276, which again is the ground water 1 2 management zone application for Will County. We can 3 help you find it. 4 I'm organized here. Α. 5 And, again, this is the letter that was Q. 6 sent to Illinois EPA, correct? 7 Α. Yes. 8 And was that letter sent on January 18th, 0. 9 2013? 10 Α. Yes. I can go through all of them, but to your 11 Q. 12 knowledge, was the letter for Will County sent on 13 the same day as the letters for Joliet 29 Waukegan 14 and Powerton? 15 MS. GALE: Objection, only to the extent this 16 witness can't remember the exact dates of these 17 letters. 18 MR. WANNIER: Okay. We can go through them. That's fine. 19 20 BY MR. WANNIER: 21 I will turn you first to Complainant Q. 22 Exhibit 242, which I'm representing is ground water 23 management zone letter for Joliet 29. We can help 24 you find it.

	Page 228
1	A. I see one for 2-6-3, which is, just to
2	help this along, for Waukegan station January 18.
3	Q. That is also January 18?
4	A. Just to speed this along.
5	Q. There is Exhibit 253 for Powerton?
6	MS. NIJMAN: May we go off the record just for
7	a moment?
8	HEARING OFFICER HALLORAN: Yes.
9	(Discussion off the record.)
10	HEARING OFFICER HALLORAN: We're back on the
11	record.
12	THE WITNESS: It appears they were sent all on
13	January 18, 2013.
14	BY MR. WANNIER:
15	Q. Okay. Thank you. When did KPRG start
16	monitoring start collecting ground water
17	monitoring data for the wells at Will County?
18	A. I don't want to misspeak, but I believe it
19	was the second quarter of 2013.
20	Q. When did you start collecting data at
21	Waukegan?
22	A. It would have been for all four stations.
23	Q. At around the same time?
24	A. At the same time. It was under one

L.A. Court Reporters, L.L.C. 312-419-9292 1

Page 229 1 contract. 2 Whose data did you rely on in helping Q. 3 Midwest Generation develop the responses on 4 January 18th, 2013? 5 MS. GALE: Object to form, vague. 6 MR. WANNIER: I can rephrase. 7 HEARING OFFICER HALLORAN: Thanks. 8 BY MR. WANNIER: 9 Were you aware that Patrick Engineering Q. had conducted ground water monitoring prior to the 10 second quarter of 2013? 11 12 Yes. Α. And did you review that data? 13 Ο. 14 Yes, we viewed that data. Α. 15 And did that data help you develop a Q. 16 response to Illinois EPA, with regard to the 17 violation notices? MS. GALE: Objection. I direct you not to 18 19 answer on attorney-client privilege. Additionally, 20 this witness did not develop the response to the 21 Illinois EPA that a response was generated by 22 Midwest Generation with an attorney. 23 MR. WANNIER: I can go around that. 24 HEARING OFFICER HALLORAN: Thank you.

Page 230 BY MR. WANNIER: 1 2 Mr. Gnat, did you advise Midwest Q. 3 Generation -- sorry, you testified previously 4 Midwest Generation called you to work on a response 5 to violation notices sometime in mid to late 2012, 6 correct? 7 MS. GALE: Objection, mischaracterizes his 8 testimony. 9 MR. WANNIER: Sometime after --10 MS. GALE: Let me finish. 11 MR. WANNIER: Sorry. 12 HEARING OFFICER HALLORAN: Hold on. MS. GALE: It mischaracterizes his testimony. 13 What he said was Midwest Generation and its 14 15 attorneys called him to assist with the response to the violation notice. 16 17 HEARING OFFICER HALLORAN: That's what I 18 recall. 19 MR. WANNIER: That's fine. 20 BY MR. WANNIER: 21 Q. I'm not asking you, Mr. Gnat, for your 22 specific communications with Midwest Generation, but 23 what I'm trying to understand is whether you relied 24 on the Patrick ground water monitoring reports to

Page 231 understand the ground water -- the hydrogeological 1 2 situation at each of the four sites, and you can 3 start with Will County. 4 MS. GALE: Are we at a question or no? 5 BY MR. WANNIER: 6 Ο. Did you rely on the Patrick ground water 7 monitoring data to understand the hydrogeology of 8 Will County? 9 I guess there's going to be a little Α. parsing of terms here. We reviewed the Patrick 10 11 Engineering reports, and we had some concerns on the data tables. We found a lot of transcription 12 13 errors, which we corrected. 14 And we used the informs in the report to 15 give us an understanding of the subsurface, but we 16 didn't necessarily agree with the way they were 17 interpreting their ground water flow conditions. 18 So, information from within their report, 19 we used to gain an understanding, but I did not rely 20 on their report, or any of their conclusions for my 21 interpretations. 22 Q. Understood. Did you rely on the data that was collected? 23 24 Objection. Asked and answered. MS. GALE:

Page 232 1 MR. WANNIER: That is a very different 2 question. 3 MS. GALE: He just said, "I relied on the 4 information they gave, except for the data tables 5 that had some transcription errors." 6 HEARING OFFICER HALLORAN: Sustained. MR. WANNIER: That is a mischaracterization of 7 8 his testimony. 9 HEARING OFFICER HALLORAN: Could you rephrase that testimony? I thought it had been asked and 10 answered, or it was vague or both. 11 12 BY MR. WANNIER: I understand you did not rely on the 13 Ο. conclusions. 14 15 I'm trying to understand if you relied on 16 the data that had been collected. 17 MS. GALE: Objection, asked and answered. HEARING OFFICER HALLORAN: Isn't that part and 18 19 parcel, Mr. Wannier? 20 MR. WANNIER: Sorry, can you elaborate? HEARING OFFICER HALLORAN: Sustained. 21 22 BY MR. WANNIER: 23 So, you mentioned you corrected data Q. 24 errors in Patrick Engineering's data?

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 233 1 In their tables, yes. Α. 2 In their tables. How did you correct Q. 3 them? 4 We went line by line through the Α. 5 analytical reports and corrected incorrect values 6 within their table and provided those corrections to 7 counsel, which included amended tables and 8 responses. 9 MR. WANNIER: Can we have one moment? I think 10 this is almost done. 11 HEARING OFFICER HALLORAN: Off the record. 12 (Discussion off the record.) 13 HEARING OFFICER HALLORAN: We're back on the 14 record. 15 BY MR. WANNIER: 16 So you mentioned you used the analytical Q. 17 reports to correct the tables? 18 MS. GALE: Objection, misstates testimony. 19 BY MR. WANNIER: 20 Can you restate your previous answer? Q. 21 MS. GALE: Let's have her read it. 22 MR. WANNIER: Reread from the record? 23 HEARING OFFICER HALLORAN: Sure. Court 24 reporter? I'm not sure how far we're going back

Electronic Filing: Received, Clerk's Office 10/31/2017 Page 234 1 either. 2 MR. WANNIER: The question before this last 3 question. 4 HEARING OFFICER HALLORAN: Okay. 5 (Said record was read.) 6 BY MR. WANNIER: 7 Ο. Did you rely on the analytical tables? 8 Α. No, I corrected the analytical tables. 9 Sorry, I misspoke. Ο. 10 I'm not a data validator, but I used the Α. analytical reports that were included and used the 11 12 values there, assuming they are correct. 13 I'm not a data validator, and made sure that the records that were in the data tables were 14 15 correct. There were many that were not, and we 16 corrected those and provided those corrections to 17 counsel for inclusion. 18 Q. Thank you very much. 19 MR. WANNIER: We have no further questions. HEARING OFFICER HALLORAN: 20 Thank you. Let's go 21 off the record. 22 (Discussion off the record.) 23 HEARING OFFICER HALLORAN: We're finished for 24 today, October 25th. We're coming back tomorrow

	Page 235
1	October 26th at 9:00 a.m. Thank you and have a
2	great evening.
3	(WHICH WERE ALL THE PROCEEDINGS HAD.)
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	Page 236
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2	STATE OF ILLINOIS))SS:
3	COUNTY OF C O O K)
4	PAMELA A. MARZULLO, C.S.R., being first duly sworn,
5	says that she is a court reporter doing business in the city
6	of Chicago; that she reported in shorthand the proceedings
7	had at the Proceedings of said cause; that the foregoing is
8	a true and correct transcript of her shorthand notes, so
9	taken as aforesaid, and contains all the proceedings of said
10	hearing.
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12	PAMELA A. MARZULLO License No. 084-001624
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		Page 237
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	Page	238
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r				2
A	accurate 167:23	92:2 93:16	aerial 79:20	56:10 187:19
a.m 1:12 38:14	168:21 175:18	102:13 112:2	80:24 86:17,18	amount 10:17
	177:1 184:20	117:3 119:8,21	86:20 136:3	187:10,10
235:1	185:1,24 194:7	121:13 126:7	160:2,3,5	amounts 187:12
abate 142:14	218:11	138:12 141:1	163:23 164:1,3	analyses 43:7
ability 184:19	accurately 85:14	147:20 150:5	164:9,12,16	171:15,15
able 20:7 24:12	acres 105:24	151:24 161:15	212:16,19	analysis 43:6,7
25:11 32:8	actions 21:17	165:9 181:24	affect 144:16	45:5,15 46:2
33:3 57:12				· · · · · · · · · · · · · · · · · · ·
59:20 78:12,17	activities 142:22	183:15 195:15	161:7	55:19,21 56:23
86:3 96:19	143:17 144:11	198:18 212:22	affirm 145:24	57:8,10 62:3
104:8 120:6	146:24 147:3,4	220:18 222:23	aforesaid 236:9	99:20 114:22
134:10 146:7	155:7,17,22	admit 6:1 68:14	agencies' 62:13	114:24 134:6
155:24 158:4	156:2	119:17 189:16	agency 71:19	171:16 195:9
161:11 168:7,9	actual 44:3	admitted 4:2,18	144:3 145:8,24	204:16 205:6
174:19 186:4	144:16 212:12	6:16,18 9:4,10	146:2	206:10 222:13
197:5 200:12	add 24:21,23	51:15,17,20,22	agency's 155:20	analytical 55:7
203:16 207:3	25:10 26:20	53:1,3 54:15	ago 22:7,8 107:1	152:3,5,7,10
209:18,24	27:8	54:17 61:6,8	221:11	171:13 172:10
226:8	added 68:23	65:13,15 66:20	agree 24:11	172:11 183:9
absolute 158:20	163:7	66:22 68:17	57:11 76:7,8	184:21 190:4,9
absolutely 7:5	addition 208:14	70:16 71:24	79:15 143:6,10	212:20 214:18
23:22 24:14	additional 94:16	72:2 73:18	167:24 178:14	214:24 221:15
25:23	113:10 115:10	92:7,9 93:21	178:17 185:4	233:5,16 234:7
accepted 144:20	159:16 202:24	93:23 112:6,8	188:1 202:14	234:8,11
154:5	224:16	112:15 117:19	207:1 231:16	analytics 152:12
accepting 120:7	Additionally	117:21 120:2,4	Agreed 225:6	analyze 56:20
144:15,19	184:19 222:7	120:8 121:18	agreeing 143:15	187:8
access 79:20	229:19	121:20 126:12	agreement 60:9	analyzed 46:6
81:4,9,10	address 143:12	126:14 128:23	75:10,20	108:1,10 187:6
accompanying	202:8 205:18	138:17 141:5,7	130:21 131:7	analyzing
168:3	209:7,21	148:1,3 150:9	138:22 139:6	167:14
account 211:20	addressed 142:6	150:11 152:15	141:22 156:7	Anderson 32:1
212:2	221:20	154:1,8 161:18	156:15 196:10	Andrea 196:2,8
	addresses 142:6	161:20 166:7	199:7,16	199:14
accumulative	addressing	174:3 182:5	agreements	Andrew 98:13
63:18	202:4	183:13 189:20	203:21	Andrew's
accuracies 93:9	adjacent 26:22	195:19,21	ahead 8:6	108:22
150:1	27:10,17,21	198:23 199:2	209:12	Andrews 98:11
accuracy 51:7	28:2,3 33:19	213:3,5 216:21	alleged 62:10	98:17
56:15 64:22	admissibility	216:23 220:22	Allenstein 197:8	anecdotal 179:8
66:13 68:2	62:17 185:3	220:24 223:2,4	allow 13:15	179:10
70:7 71:6 79:8	admission 6:8	admitting 94:19	74:14 188:3,12	anecdotally
82:18 98:11	51:10 54:8	adverse 38:17	220:13	179:6
99:2 110:4				
140:23 167:19	60:12,14 63:17	39:2,6,16	allowable 89:22	animal 194:10
183:7 185:14	65:8 66:15	41:20,24 42:18	allowed 34:23	annual 149:7
215:20	68:4,8 70:10 71:0 12 16	43:1 128:15	amended 233:7	170:9,12,21
	71:9,13,16	advise 230:2	America 55:3,8	181:1 182:19

Page 2

r				2
annual/quarte	28:18 34:15	appropriate	205:12 208:17	120:14,19
93:2	46:22 48:10	12:5 203:9	210:1 217:24	123:11,24
answer 18:6	49:2,24 50:18	204:10,18,21	219:14	124:11 125:2,5
19:18,21 20:6	51:3 52:18	205:1	areas 19:2 29:12	125:9,9,11,14
22:10 24:12	53:13 74:20	approved 21:4	78:7,13,18	125:23 129:4
25:12 32:7	76:23 83:5,20	89:19 144:7	81:20 95:8,21	129:24 130:9
33:3 38:1	86:17 97:1	147:13,14	105:19 115:8,9	142:20 143:9
53:24 57:12	98:3 103:19	approximately	115:21 116:7	147:3 155:7
59:20 78:12	105:13 109:18	5:20 38:14	118:11,16,22	156:3 164:18
86:3 88:11	110:8 122:15	72:9 105:24	119:3 120:17	165:1 172:23
96:18 104:8	131:23 137:19	128:6	123:9,23 124:9	175:4,12 176:9
108:5 134:10	156:22 160:10	area 30:2 77:11	125:3,21,24	176:12,12,14
144:5 145:18	176:17 189:12	77:13,14,21,23	174:18	177:16,17,24
155:23 158:3	195:12 210:23	79:1,10,18,22	arrived 22:5	178:9,15,18,22
161:10 197:4	210:24 211:11	79:23 80:2	arrows 84:14	179:3 192:19
198:17 200:11	APPEARAN	81:3,10,16	180:12	193:13 197:13
203:15,17	2:1	82:2,4,6,7,8,19	arsenic 136:12	211:2,7 218:7
206:2 207:3,18	appears 16:10	82:22,23 83:1	ash 10:9 11:3,17	218:14,20
209:17 229:19	23:6 28:13	90:15,21 91:1	12:6,9,11,18	219:13,21
233:20	37:3 46:12	91:5,8,10,12	13:21 14:12	221:4
answered 19:20	47:14 74:22	91:15 97:2	15:8 16:1 18:1	ash-handling
37:10 79:11	100:16 115:5	101:13,18	19:16 22:20,23	144:11 155:22
144:1 202:12	120:15 163:12	102:5 105:23	22:24 23:3	156:2
202:13 209:16	167:9 179:2	106:6 108:11	27:22 29:1	ash-related
231:24 232:11	183:1 219:17	108:12,13	30:8,9 33:21	142:22 143:17
232:17	228:12	111:1,6,20	35:24,24 47:4	146:23 155:16
answers 104:2	applicable 87:19	112:21,24	47:5,10,18	aside 62:20 75:6
anticipation	87:24 89:4,7	115:24 116:17	48:2,13,21	94:2 112:17
207:22	170:9	116:20,24	49:6,15 50:11	126:19 154:11
anticipatory	application	118:5 119:1,5	75:3 76:23	asked 35:16
63:8	75:10,21	120:14 121:6,7	77:4,7,7,8 78:2	64:11 79:11
anymore 25:5	138:22 139:7	122:5,6,10,11	78:6,7,14 79:3	82:6,9 91:7,14
Anyway 5:7	140:10 144:22	122:20,24	80:2 81:19	96:13 103:23
128:14 153:14	145:8 147:8,10	123:2,7 124:20	82:2,8,20	104:1 106:20
apart 215:14,21	147:15 199:8	124:21,22,23	90:15,21,22	130:12 144:1
223:9	199:16 203:20	125:10 129:5	95:8,15,20	145:24 154:20
apologies 149:20	227:2	129:15,20,24	96:1,6,11 99:7	159:2 194:16
164:8	applications	130:10 133:19	99:8,10,13,24	198:4 202:12
apologize 7:13	142:4	136:5 137:22	100:4,18	209:16 217:24
20:19 21:7	applies 208:20	139:15,17	101:18,22	220:1 231:24
22:24 25:7	209:2	142:21 143:16	102:3 105:20	232:10,17
27:6 92:1	apply 70:3 87:13	144:8 146:22	105:23 106:19	asking 9:2 57:7
121:2 137:9	88:10	147:2 160:17	107:24 112:21	57:9 58:20,20
151:21 213:10	appreciate	178:7 179:5,7	112:22,23	73:20 78:10
apparently	76:12	180:5,6,17	115:21,24	79:14 82:17
222:13	approach 80:6	200:1 201:11	116:1,9,16	101:16 107:11
appear 16:7	214:9	202:19 203:24	118:5,12,18	108:3 129:3
	I	l		l

Page 2	240
--------	-----

1				
155:21 175:21	attention 31:1	B1 28:10	basins 45:6	begins 172:10
200:10 203:14	31:17 35:15	back 7:12,21	142:20 175:5	186:9 188:14
205:24 208:18	163:22	11:12 17:13	175:13 176:9	191:1 221:24
209:5 230:21	attenuated	21:18 23:24	178:1	behalf 2:11,16
asks 145:5 210:7	207:5	30:15 31:21	basis 39:3 41:22	2:21 8:9 145:8
assigned 5:11	attest 190:13	36:4 38:12,13	42:17 60:7	194:22
assist 132:16	194:23	43:5 44:9	142:15 197:17	belief 187:3,13
191:15 201:19	attorney 2:7	53:22 54:4	Bates 7:9 11:2	192:24
203:8 206:17	206:5,23	57:1 67:17	11:24 12:8,24	believe 10:15,18
230:15	229:22	72:8 73:14	13:9,10 14:15	17:5,7 23:2
assisted 206:16	attorney-client	79:24 94:17	15:14,16,22	26:8 28:17
assisting 41:3	56:22 206:5,13	95:19 102:2	18:13,16 20:12	33:17 34:3
202:4	207:9 229:19	105:9 106:24	25:14,16,20,24	46:19 58:14
associate 44:1	attorneys	111:9 117:16	26:11 28:9	59:10 70:1
194:17	132:16 206:11	121:23 126:4	31:14 33:15	83:9 85:13
associated	206:19 230:15	128:2,5,6	35:11,23,24	87:5 89:17,20
116:14 136:7	August 102:17	133:17 155:6	36:4 37:13	90:8 94:8,11
160:7 204:1	113:8 115:6	162:3 164:24	46:8 52:2,15	97:22 100:24
Associates 40:1	118:6 120:14	172:7 180:21	72:18 75:11	118:9 130:12
40:2,5 218:12	127:4,7,10	180:23 181:3	76:17 80:1	133:12 135:14
assume 27:24	182:21 192:17	186:1,1,3,17	81:1 83:4	137:6 139:17
assumed 33:18	221:16	190:20 192:2,9	100:10 104:17	141:15 145:4
assuming 24:3	authenticate	202:18 204:3	107:15 108:8	146:21 152:9
163:15 234:12	153:4	208:9 212:11	109:5,6,15	152:17,22
ASTM 221:24	authentication	213:20 214:21	114:12 117:4	154:19 157:21
ASTMD 220:7	74:13	217:5 222:19	117:14 119:22	159:16 161:5
attached 87:2	available 72:16	223:16 228:10	120:22,23,24	165:14 183:24
113:10 134:20	159:21	233:13,24	122:10 130:20	184:18 185:13
134:24 135:10	average 212:8	234:24	131:20 132:5	187:14 188:14
135:13 140:10	aware 75:3 78:1	backed 162:2	136:1 137:18	189:22 191:13
152:3,5,8	78:6 81:19	backup 185:20	139:11 140:4	191:20 194:5
183:9 184:21	83:15,17 91:6	bank 124:24	140:13 141:11	200:13 213:19
213:21 214:2	91:13 96:6,10	base 31:9	151:5 163:1	216:17 219:12
attaching	96:16 106:15	based 15:10	165:10,18	221:11 224:13
152:10	106:18 107:7,8	21:15 84:5	166:6 170:23	228:18
attachment	107:23,24	143:12 145:18	173:8 177:13	believed 145:22
28:10	134:8 135:7	201:12	181:3,9 186:14	beneath 22:5
attachments	155:16,22	basically 18:9	188:12 191:1,9	31:9
191:22,24	159:9 175:12	59:12 94:15	192:3,22,22,24	beneficial 42:20
194:6 196:12	178:20 179:5,8	107:14 137:14	193:1,2 195:11	79:5 95:17
attempt 158:7	200:8 219:23	163:6 201:3	196:15 213:20	106:8,9 111:2
159:1	219:24 229:9	basin 29:22	214:17 216:2	218:3
attempted	<u> </u>	150:19 151:1	217:10	beneficially
104:13		151:10,17	Becky 19:4	101:23
attempting	B 4:1 8:23 B 2 132:21	178:9	began 223:19	benefit 81:11
73:17	B-2 132:21 134:13	basin/ponds	beginning 7:9	best 168:20
attempts 157:18	134.13	45:16	181:9 221:19	better 74:5
	•	•		•

Page 241

T				2
79:21 80:4	51:4,7 53:9,19	2:2	60:2 79:4	70:2 71:15
168:24	53:20 98:3.23	break 7:22 72:5	95:17 106:8	77:22 152:11
binder 22:13	100:9,16 101:4	106:11 128:19	111:2 217:20	152:14 201:14
29:9 30:24	101:6,14,24	182:7,8	218:3,16	201:19
bit 17:1 31:21	102:7 108:13	brief 7:22	byproducts 28:5	CCB 94:5
79:14 132:24	108:13,20	208:10 210:4,9	218:9	103:20,23
133:5 138:2	109:11,18	briefing 208:15		105:13 217:10
222:15 223:17	110:4,13,14,23	210:15	<u> </u>	217:19 220:14
bituminous	132:20 134:7	briefly 139:2	C 236:2	CCD 218:16
11:14	196:18,22	Brieser 8:13	C.S.R 236:4	CCed 139:9
black 14:16,21	borings 17:8	18:7,7,8 20:22	California 2:19	CCR 23:10 55:2
28:24 47:3,19	28:13 46:5	21:23 22:4	call 26:15 38:16	55:17 56:6
48:2,3,22	97:2,10,11,17	26:24 27:12	39:2,6 41:9,10	57:19,24 58:20
49:15 53:17	98:8,11,14,17	31:8	41:19 59:23	59:2,6,8,11,15
97:7 100:6,13	98:20 99:2	Brieser's 21:10	60:6 86:21	59:23 60:3,4
100:14 108:16	108:9,14,24	21:15	88:7 98:8	60:15,17,22
108:18,20	109:21 110:11	bring 27:16	136:6 160:6	61:11,14,16
196:22 197:1	111:13 133:24	137:5	171:24 201:24	62:8 63:10
197:12	180:6 197:9	broad 208:2	225:17,21	64:7,11,20,21
Blackened 99:18	bottom 11:13	brought 132:15	called 10:3	67:22 70:22
blankets 113:11	12:1,10,18	194:16,23	39:16 57:3	71:4
Board 1:1 5:10	14:1 15:8	205:17 206:14	60:4 108:22	center 1:3 2:3
61:3 62:15	22:17 30:4,6	brown 48:3 49:7	220:12 226:20	5:12 16:2,8
63:23 71:21	32:3,14,20	99:8,10,14	230:4,15	81:17 87:2
153:8 154:2	33:5,9,11,12	100:2	calls 32:6 33:1	160:13 200:1
174:22	47:4,18 48:2	bubble 16:2,3	34:19 57:17	central 164:18
bodies 85:11	48:13,21 49:6	35:16 37:13	155:18 161:9	certain 115:12
body 208:6	49:15 50:11,13	bug 39:23	197:3 204:11	certainly 21:14
211:21	73:11 76:20	BUGEL 2:7,8	Cannier 128:9	34:11 78:20
boilers 28:6	85:4 88:1 99:7	9:12 148:17	captured 53:23	82:22 99:22
bold 88:2,4,4	99:8,10,13,24	bullet 18:24	carrying 171:14	115:15 122:20
137:12	100:3,18 102:3	21:22 22:4	case 38:15 71:17	173:21 182:18
bolded 136:14	109:5 116:3	26:1 31:3,18	73:19 84:7	190:12 198:5
bookmarks	122:6 137:2,11	45:18,22 116:4	85:17 87:22	203:19 211:20
184:13	175:4,4,12	172:20 181:16	89:16 102:3	certainty 197:24
books 184:21	176:9 177:24	bulleted 14:16	122:22 152:23	198:7
bore 16:7	178:9 189:4	14:17,21,22	168:5 174:16	CGP-14 111:14
181:17	214:18	bundle 67:11	198:11 211:23	chance 130:23
boring 14:24	bottoms 14:6	burial 112:21,22	cause 236:7	208:11
15:10 16:8	boundary 116:7	112:24 118:5	CC 76:20	change 8:13
17:10 28:10,17	116:13 137:19	120:14 129:4	CCA 24:22 25:1	17:13,17 20:11
28:19 31:20	139:24 160:10	129:24 130:9	25:2,6 58:21	20:16,21,22
33:8 34:21	box 86:21 160:6	burned 47:7	60:6,19,22 61:15 17 62:8	23:15 158:8,22
35:18 37:14,23	212:19	burners 47:8	61:15,17 62:8 63:20 65:20	159:2,5 224:5
46:16,23 47:14	boy 8:23	business 41:6	66:1,4,8 69:13	changes 142:16
48:18 49:3,19	Bradely 5:8	224:17 236:5	69:16,22 70:1	147:15 212:2
50:5,14,22	BRADLEY 1:14	byproduct 47:11	07.10,22 /0.1	changing 23:10
L				

Page	242
Luge	

r				2
channel 85:5	149:16 157:14	clips 67:10	come 94:17	61:7 65:14,19
characterizati	169:21 176:6	Club 1:3 2:17,21	107:19 144:11	66:16,20,21
101:10 123:13	186:6 198:16	5:12	166:4 167:11	68:16 69:18
204:20,23	202:1	co-ash 197:2	186:5 193:2	70:15 72:1,17
characterize	clarifying 75:14	co-combustion	ComEd 72:24	73:5 75:13
101:18	131:17 211:10	79:4	ComEd's 72:24	80:16 92:2,8
characterizing	class 87:20,21	coal 19:16 27:22	comfortable	93:22 94:4
40:17,17	88:10,14,15	28:5 47:5,7,10	224:19,23	102:13 103:16
chart 58:4,8,9	89:8,13,18	47:11 60:1	coming 33:18	105:12 112:3,7
58:11,12,18	90:1 136:17	81:4,9,13	234:24	112:12,14,19
59:13 87:2	137:15	91:11 95:16	comment 33:12	113:16 114:7
167:20 187:5	classified 79:4	96:3 100:13,14	comments 31:5	117:3,20,23
charts 58:13,16	95:16 218:2,8	101:17,19,21	31:6,18 202:1	119:18 120:3,5
59:6,7,8	218:15	105:20 106:7	202:3,4,7,18	121:14,18,19
162:14	classify 117:5	106:11 111:2,6	commitment	121:24 126:13
check 66:10	clay 15:2 16:17	111:13 177:21	60:8 75:9,20	138:16 141:2,6
Chicago 1:13	99:17,18,20,21	178:7 217:19	131:7 138:21	141:10 148:2
2:5,14 236:6	100:6,8 132:2	218:2,7,8,14	139:6 141:22	150:10 152:1
chief 38:15	132:9,22 133:7	218:16 219:21	156:15 196:10	154:6,7,12,22
choice 154:23	133:13,22	221:4	199:7,15	155:3 156:5,6
choose 110:22	134:3,12,21	Coal/coal	committee 156:7	161:19 162:12
chose 21:23	135:18 196:23	111:18	common 99:8	165:11,18
74:12	197:12	coat 11:15	Commonwealth	166:9,12
Chris 194:17	clay-type 99:22	collect 46:5 56:5	173:17,18	169:23 173:7
cinder-sand-fly	99:23	79:2	175:11	176:19,21,21
29:1	clean 119:19	collected 29:2	communication	180:23 181:23
circles 108:17	120:6 128:18	31:11 60:17,20	208:18	182:4,14
108:18,20	186:17 188:8,9	60:22,23 69:9	communicatio	186:15 189:19
Citizens 1:4	188:21 216:10	82:11 85:1	207:10 208:3,4	192:12,14
5:13,16	216:11,21	101:14 102:4	208:21 230:22	195:20 199:1
city 236:5	cleaning 150:19	222:12,21	Comp 13:1	212:23 213:4
claim 208:2	151:1,9,17	231:23 232:16	companies 42:9	213:10 216:22
claiming 145:14	clear 55:9 76:9	collecting	company 41:17	219:2 220:19
145:15	104:8 115:20	228:16,20	42:22 44:1	220:23 221:7
clarification	145:14 153:18	colored 6:6 87:5	58:11 183:19	222:23 223:1,3
69:14,23	160:13 208:17	column 47:2,16	194:19 224:23	226:5,24
138:11	208:19	53:20 166:18	compare 88:14	227:21
clarify 10:21	clearly 198:10	166:22,23	89:8	complainant's
11:23 17:1	207:21	columns 166:15	comparing 9:4	6:24 7:9 8:4,4
44:16 58:2	client 42:12,21	Com 74:1,7	157:8	8:12,15,17
59:9 66:1	57:14 58:12	200:5,15	comparison	17:18 20:15
80:11,12,14	71:17 114:17	combust 218:16	152:24	38:15 51:10,15
88:19,20 90:2	145:9 205:20	combustion 28:5	complainant 1:5	52:2,22 54:14
109:7 110:7	clients 41:8 42:6	47:9,11 60:2	2:11 4:2 6:3,5	54:24 60:12
125:18 132:8	42:14,16	95:9,17 105:20	13:4 38:16	61:5 62:22
133:16 134:16	clip 67:6	106:7 111:2	51:16 52:21,24	65:1,2,12
137:22 138:6	clipping 183:2	217:20 218:2,9	53:2,6 54:9,16	66:15 67:3
	•	•	•	•

		_		
68:5,14,21	complaint 44:15	86:13 231:17	181:18	contract 44:5
69:17 70:13,21	161:18	conduct 110:22	constituents	56:12 229:1
71:8,9,23 80:1	complaints	110:23 129:7	13:24	contracted
91:20 92:7	60:18	129:15 130:9	constituting	56:10 194:22
104:14 112:6	complete 61:21	conducted 55:3	88:22	201:19
112:10,13	completely 6:6	97:11 98:11	constructed	contractor 18:8
117:5,17,18	110:13,17	110:5 195:9	13:22 14:1,3	41:11 195:5
119:8,9,15	184:14 191:17	229:10	construction	contractors 73:1
120:11 121:13	203:18	conducting	12:16,22 53:10	control 1:1 5:9
121:23 122:9	complex 10:22	55:19	106:10	69:7 82:6
123:4 126:8,11	compliance	confidential	consultant 41:11	conversation
126:16,22	24:22 25:1	223:6,9	41:12,23 97:8	203:5
128:18,22	60:1,8 75:9,20	confirm 79:8	132:12 173:18	conversations
130:19 138:13	130:21 131:7	82:18 129:7	consulting 40:3	201:21 206:23
138:21 141:4	139:6 141:21	135:12 173:14	40:8,9,11,12	225:24
147:21 148:1,6	156:7,14 196:9	186:9 187:7	226:2	coordinates
150:8 161:15	199:6,15 225:2	195:2	contain 55:12	122:6,11,14,22
162:6 165:9	complication	confirmed 27:1	64:17 153:21	copies 9:16
166:5,11	191:7,11	27:13	160:6 172:10	56:12 113:12
170:17 188:12	comply 144:21	confirming	172:13 190:13	119:19 141:13
190:3,23 191:8	compound	176:7	contains 153:24	186:17 191:20
191:9,14,21,23	24:10,12 64:13	conflicting 10:7	187:13,16	214:6
195:16,19,24	104:3,5 145:5	confused 128:12	190:4 236:9	copy 9:13,14
198:18,19,23	158:11 159:20	174:10 191:18	contemporane	120:6 131:10
199:5 213:3,7	concentration	confusing	61:15	156:19 163:3
215:24 217:9	57:21 58:3,17	145:19 187:24	context 88:17	188:8,9,21
219:18 221:3	59:13 89:22	188:2 191:19	89:24 109:3	216:10,11,21
223:6	concentrations	confusion	175:10	226:10,14
complainants	61:17 87:19	124:12	continue 62:24	core 32:12 47:3
5:14,15 53:5	160:6 181:17	connected 133:5	153:15 174:23	48:22 49:16
54:8,18 60:11	concern 78:19	connection	176:3 184:17	50:12 222:6,10
62:6 67:6 68:4	142:4,12	207:20	continued 5:19	222:11,12,14
70:9 74:4 92:2	concerned 16:5	conservative	continues 38:15	cores 31:22 32:2
93:15,16,20	125:8	125:7	140:16	corner 80:3
102:12 112:2	concerning 6:3	consider 23:16	contour 83:21	136:10 137:2
119:16,21,23	206:10	consideration	84:11,20 85:15	137:11
126:7 128:18	concerns 7:14	212:1	85:20 86:4	correct 10:11,12
138:12 141:1	24:1,4 142:15	considerations	132:5 135:17	11:5 12:2,3,7
147:20 148:5	143:13 153:4	106:13,16	135:22 145:13	12:13,14,19,20
151:24 154:21	231:11	considered	156:23 157:4,5	14:12 15:8
161:14 165:7	conclusion	88:16 106:7	157:8 158:20	16:12,13,15,18
184:11 186:13	123:14 144:12	119:13 142:19	160:21 180:9	16:19,21 19:9
190:17 192:12	conclusions	consisted 14:6	180:13,18	19:12 20:1,23
195:15 212:22	231:20 232:14	consistent 35:20	211:12,15	21:2,4,9,11
213:9,12	condition	36:11,13,19	contours 131:24	22:2,3,17,18
220:18,22	216:20	73:8,9 222:1	132:1 133:9	22:21,22 23:3
222:22	conditions 40:18	consistently	161:7	28:15 29:18,21
	I	-	I	I

Page 243

Page 244

				2
29:24 33:20	188:19 193:17	70:22 71:3	145:11 176:12	187:13,20
34:5 36:7 37:5	194:1,2 195:4	199:8,17	curves 57:21	212:10,20
46:3 47:14,15	195:13,14	200:21,24	58:3 81:5	213:21,22
49:20 55:17	196:19,20,23	201:6 210:24	cut 20:22 30:3	214:18,24
58:6 59:3,4	199:23 200:21	213:9 217:11	cutting 17:14	215:4,7,21
64:19 66:6,9	204:6 211:13	217:21 218:8		228:17,20
66:10 67:12	212:18,21	218:15 221:4	D	229:2,13,14,15
69:11 70:5	218:9 219:7,8	221:18 222:18	D 3:1	231:7,12,22
71:4 78:22	219:19 221:20	227:2,12	damage 119:1	232:4,16,23,24
81:15 82:24	225:14,15	228:17 231:3,8	Dan 26:23 27:11	234:10,13,14
83:7,22,24	226:22 227:6	236:2	dark 50:11	date 21:3 115:6
85:9 87:7 88:6	230:6 233:2,17	couple 107:2	138:7 160:17	115:11 151:2
90:23 92:22,23	234:12,15	113:11,17	darker 219:16	180:6
93:4,13 94:12	236:8	course 159:5	219:17	dated 8:11 22:17
96:5 98:6,7,18	corrected 52:14	court 7:23 39:11	dash 111:18	26:12 45:14
99:9,11 100:1	231:13 232:23	146:15 233:23	data 41:2 55:12	75:18 127:4
100:13,17,19	233:5 234:8,16	236:5	56:17,19,20	131:6 139:5
102:8,10	correction	courtesy 214:5	57:6,19,24	151:2 156:14
109:22 110:15	139:18,22,23	226:10	58:5,10,18,20	192:17 196:9
110:20,21	140:19 143:15	cover 201:5,10	58:21 59:6,11	199:14 217:18
111:15,19,24	corrections	202:11	60:4,15,17,19	221:16 226:15
116:21,24	233:6 234:16	covered 18:4	60:22,22 61:1	dates 25:4,5
118:7,13,18,20	correctly 69:16	207:16	61:11,14,15,17	187:4,5 227:16
119:4,6 120:19	212:7	covers 207:10	62:8,9 63:10	day 5:18 17:24
123:7,8 127:9	correlate 104:17	cracked 222:14	63:18,21 64:20	212:4 227:13
129:12 130:15	correlated 133:4	cracking 222:8	64:21 66:11,13	days 18:4,5
130:17 131:9	correspond	222:9	68:9 70:7	115:7
133:14,15	104:22	cracks 222:5,9	71:16 84:23	debate 210:2,4
135:15,16	correspondence	create 59:7,8	85:10,21 86:21	December 84:7
136:4 137:24	201:24	61:20 84:24	89:18 97:18,20	132:2
138:9,10	corresponds	created 74:7	97:21,23	decided 24:6
139:10,13	219:16	creating 58:4,16	132:19 134:12	decision 26:24
140:2,3,10,14	counsel 7:1,16	59:6 158:19	135:13,18	27:12
140:20 142:1	8:9 13:2 38:21	criteria 207:21	136:6 140:9,13	deep 14:3 32:12
143:18 147:12	51:19 63:4,12	208:23	151:15,16,19	125:1
147:16,17	175:15 176:7	cross 5:2 8:1 9:1	152:3,5,7,10	deeper 126:1
151:16,23	205:10,19	88:12 146:5	152:14,16,18	defendants
159:7 160:15	206:17 207:10	Cross-Examin	153:20,21	54:20 153:3
160:18,19	207:12,15,20	3:4 10:5	157:9,15	168:8 174:15
161:3 163:11	208:16,21,24	crossing 5:22	158:14 159:2,4	184:12
163:12,24	210:7 225:21	cumulative	161:1,3 163:6	defense 176:7
164:10,13,14	233:7 234:17	60:16 65:10	163:8 168:4	210:6
164:22 167:13	counsel's 207:12	68:9 71:14	171:13 172:10 172:11 182:21	defined 124:20
170:21,22	207:12	152:17 168:16		124:21 142:9
171:5,6,11,20	County 10:9	183:14 184:18	183:3,11,13 184:5,6,20,22	201:11
173:1,2 178:3	11:3,17 13:21	curing 11:14	184.3,0,20,22	defining 222:15
183:4,5 186:10	45:21 50:1	current 142:24	105.1 100.7	definitively
	-	-	•	

Page 245

147:4	52:9 55:1	determining	directing 171:1	204:5 210:13
deleting 188:21	83:23 84:3	208:20	direction 84:10	217:4 228:9
delineate 79:9	95:12 113:3	develop 229:3	84:14 133:10	233:12 234:22
delineated 50:4	127:2 148:23	229:15,20	180:19 207:19	discussions
77:11 82:19	150:24 156:12	developed 59:24	directly 49:14	142:7 201:12
83:10 184:13	170:4 174:17	133:11 171:19	56:10 177:19	201:16,17
184:14 199:24	192:15 193:10	203:19 224:12	178:7,15,18,22	202:16 203:21
211:3	196:6 199:11	225:22	193:1 201:17	204:9 206:8
delineations	203:20 217:15	developing	208:22	211:19
84:21	described 59:12	97:24 132:17	disagreement	disregard 153:9
demonstrating	82:19,22 90:17	201:20	142:9	dissipated 22:6
175:19	90:21 95:20	develops 58:11	disagreements	dissolved 61:18
demonstrative	102:19 134:11	diagram 16:7	202:23	187:10
73:17 74:5	describes 99:18	diagrams 11:21	disappear 19:3	distinction
75:7 78:16	197:11	12:21	19:11 20:4	59:15 88:19,20
82:16 173:5	describing 81:13	difference 62:1	discharged	90:10 100:21
174:2,10,22	115:12 167:7	62:2 90:2 97:5	19:16	132:9 138:1
174.2,10,22	description	133:6 166:21	disclose 57:14	distribution
176:24 177:6	20:22 28:24	189:8	discoloration	86:18 136:3
177:23 178:6	34:15 47:16	different 12:3	222:8,9	docketed 5:16
Denied 74:17	48:13 49:6	12:14,20 29:13	discuss 17:13	document 11:6
	48.13 49.0 53:17 99:6,16	36:21 37:3	26:9 32:2	11:16,19 12:24
density 27:18	· · · · ·			· · · · · · · · · · · · · · · · · · ·
depend 161:12	100:12 114:23 115:14 125:12	62:13 71:19 80:22 97:5	64:15 94:18 174:19 226:20	15:9,12 29:5 36:20 45:10
Depending 42:15	162:21 196:22			
		110:14,17 122:19 123:2	discussed 9:5	52:7,10 53:8
depends 40:16 40:18 43:17	descriptions 11:2 124:22	152:13 153:7	18:14,24 21:14	71:13 75:15,18
40.18 43.17 47:6			24:1 36:2	76:14 95:6
	descriptive 99:21	174:18 176:13	54:20 63:12,13	103:17 107:17
depict 77:4		184:6,13 187:1	63:16 82:3	107:18 114:11
151:9 176:11	design 17:3	187:2,8 189:7	89:17 90:13,15	118:2 123:18
depicted 77:11	194:13,17	189:7 232:1	91:11 95:21	124:2,3 131:1
78:8 134:19	designed 194:15	differently	98:6 103:21	131:4,5,8
159:10,14	designing	184:7	110:1 115:21	136:19 138:24
160:12,24	194:11	difficult 209:1,3	157:6 158:15	139:8 141:12
161:8 175:6	detail 43:15	difficulty 190:16	180:24 184:7	141:17 143:13
211:6	79:14 174:16	dig 173:12	209:20 215:22	150:22 152:21
depicting 175:13	determination	digit 149:17	discusses 13:11	154:15 156:10
182:15	94:5 103:20,24	dinged 71:18	13:18	162:15,19,22
depiction 86:20	105:13 172:15	dire 3:7 42:3,4	discussing 30:6	163:2,4,14,16
depicts 160:3	217:11,20	direct 3:6 6:22	180:2,17	167:2,5,10
212:16	220:14	9:5 30:5 39:18	201:18	168:2,9 170:6
deposited 218:7	determine 47:8	57:13 82:14	discussion 7:20	173:16,17,19
218:14 219:21	79:3 95:15	124:5 127:15	21:16 31:20	182:17 183:16
Des 85:8,9	101:22 106:6	128:15 179:15	38:10 67:16	188:24 190:7,8
116:10	125:3 218:1	207:17 229:18	72:7 105:8	191:4 192:15
describe 40:22	determined	directed 31:1	162:1 192:8	192:16 193:11
43:15 45:12	132:19	33:14 208:24	201:13 203:2,3	196:4,6,7
	1	1	1	1

Page 246

		_		
199:9 202:9,22	99:8 100:13,14	107:2 129:19	ELUC 69:6,7,10	172:9 182:19
217:13 221:10	100:19	155:19 173:16	130:21 131:7	environment 1:4
226:13	Dubin 2:3 3:4	early 38:8 39:5	137:19,23	5:14 13:24
documentation	5:4,23 6:9,10	223:21	138:3,7 156:7	environmental
36:22 113:11	6:13,20,21 7:5	easier 80:22	156:15 160:10	1:3 2:3 5:12
196:11	7:8,13,18 8:1,2	east 2:4 116:16	160:15 185:21	40:3,8,9,10
documents	8:8,16,21,23	176:12,14	185:22	41:1,3 69:7
10:22 11:20	9:2,8,14,20	177:17 180:13	ELUC/GMZ	98:12,14,17
12:4,15,16,21	10:6 13:6,8,13	192:19 193:13	141:22 142:4	108:21,22
22:12 55:10	13:17 14:19,20	193:16	employed 11:10	225:1
64:5 65:23	15:19 18:18,20	east-west 81:5	74:8 195:3	EPA 60:20
70:24 92:15	18:23 19:23	eastern 90:15	employer	77:24 131:6
113:1,5,17	20:9,15,19,20	178:8	223:22	139:5 141:19
132:17 148:21	23:22,23 24:14	easy 8:6	encompasses	141:24 142:2
170:2 184:13	24:15,20 25:8	Ed 74:1,7 200:5	138:8	143:14 144:14
213:15 215:13	25:17,18,22	200:15	encompassing	154:14 196:3,8
dog 72:19,20	27:5 28:12	Edison 173:17	160:17 216:1	199:14 201:13
doing 23:13	30:12,24 31:17	173:18 175:11	encountered	202:17 203:13
40:15 43:19	32:6,16,24	effect 62:12	32:4 33:13	208:5 225:14
128:15 207:19	33:14 34:8,19	143:23 144:6	111:4	227:6 229:16
224:7 236:5	35:1,15 36:15	153:9	ends 188:17	229:21
dots 97:7	37:8,17 38:5,6	eight 215:1,5	222:5,10	EPA's 142:8
dotted 29:14	63:17 112:16	either 7:12	enforcement	143:5,12
111:23	169:14,19	26:17 95:21	5:17	equal 84:11
double 71:18	due 5:22	116:8 118:16	engineer 17:21	equals 88:4
doubt 51:6	duly 10:4 39:12	120:17 123:10	194:9,18	Erin 26:23
56:14 64:22	39:17 236:4	123:23 124:9	engineering	27:11
66:12 68:1	Dunaway	125:22 133:18	11:21 12:4,15	erosion 82:6
70:6 71:5 93:8	141:19 142:7	168:3 185:19	12:21 98:12,14	113:11 116:8
98:10 99:2	154:14,18	234:1	98:17 106:13	118:11,17
110:3 140:22	202:1	elaborate	106:15 108:22	120:18 123:10
149:24 167:18	duplicate 168:16	124:14 232:20	163:5 213:22	123:23 124:10
183:6 185:14	duplicative	elevation 30:3	213:23 214:22	125:4
215:19	63:18 65:9	84:5,12 85:10	215:6,14,21	errors 184:24
draft 190:9,14	68:9 71:13	86:9,10,12	218:4 221:9,14	190:13 231:13
190:15	152:17 153:19	134:23 135:13	229:9 231:11	232:5,24
draw 85:14	153:20,23	135:18 157:22	Engineering's	establish 39:6,8
drawing 158:22	183:14,23	157:24 158:20	232:24	85:23,24
drawn 31:17	184:1,18	159:3,5 161:1	ENSR 74:7	167:22 175:17
78:20		161:2 166:16	ensure 23:12	185:1
drew 35:15	E	166:19,22,23	entered 104:14	established
212:1	E 2:7,8 3:1 4:1	167:15 211:15	entire 73:13	24:19 34:20
drinking 137:15	E-L-U-C 69:10	212:3,8,13	77:16,20	101:11 167:2
Drive 2:4	131:7	215:7	173:19 201:10	172:1 177:1,2
driving 202:7	E-mailed 23:24	elevations 85:13	entirely 223:11	establishment
drum 26:21 27:9	E-N-S-R 74:9	86:5 161:6	entirety 201:5	172:4
dry 47:19 50:12	earlier 6:22 65:7	166:13 167:19	entitled 5:11	estimate 106:22
L	8	1	8	1

				_
estimated 84:11	exactly 40:15	33:15 34:2	152:1 153:3	169:17 182:1
211:23	41:7 110:19	35:10,22,23	154:6,7,12,20	184:5 186:24
evaluate 110:24	133:24 183:21	36:12,14,20	155:3,4,10,11	213:14 223:8
217:24	218:22,24	37:2 45:4 46:1	156:6 161:15	exist 187:17
evaluating 43:19	Examination	51:10,11,16,21	161:18,19	192:3
135:17 218:7	3:4,6,7 30:22	52:2 53:2 54:9	162:7,13	existing 87:22
218:13	39:18 42:4	54:15,16,19,24	165:11,15,18	106:11
evaluation	examined 10:4	61:5,7 62:21	166:6,12	exists 101:8
135:21 158:8	39:17	62:24 63:9,11	169:10,20,22	187:14
evening 235:2	example 28:14	65:2,12,14,20	169:23 170:6,9	expanded
event 5:21 71:21	62:8 124:22	66:16,20,21	170:11,14,18	223:23 224:2
183:20	136:9 168:2,7	68:5,5,14,16	173:6,7,11	expected 13:22
eventually 194:1	202:22	68:21 69:17,19	174:3 175:16	147:7
everybody 5:8	exceed 88:5	70:4,13,15,20	176:22,24	expecting 33:4
everyone's	136:17 137:3	71:9,23 72:1	180:21,23	expert 57:4
81:11	exceedance	72:14,18 73:3	181:4,21,24	85:16,24 90:10
evidence 6:18	88:16,22 89:5	73:13,18 74:1	182:4,14 184:9	145:6 194:9
9:3,4 13:13	89:14,20,23	75:9 80:1,16	186:8,15	expertise 28:18
51:17 53:3	90:3,9 137:16	80:17 91:17,20	188:10,12	44:6 194:11,12
54:17 60:16	exceedances	91:21 92:3,7,8	189:17,19	explain 59:14
61:9 62:10	87:9 88:8	92:21 93:20,22	190:3,18,23	61:12 62:5
65:10,16 66:23	exceeding 89:21	94:4 102:13	191:15,22,24	89:15 100:21
68:18 70:17	Exceeds 137:12	103:8,16	192:4,13	106:3 166:21
72:3 92:9	exception 113:6	104:14 105:12	195:16,19,20	175:21 209:1
93:23 112:8	114:11 142:9	112:3,6,7,10	195:23 196:1	211:18
117:19,21	191:21	112:12,14,14	198:23 199:1,5	explained
120:4 121:20	excerpt 72:14,15	112:18 114:8	199:19 210:20	100:23
126:14 138:17	73:12,18 173:5	115:19 117:8	210:21 212:23	explanation
141:7 148:3	excluded 107:17	117:17,18,20	213:3,4,8,10	168:4
150:12 152:15	Excluding	117:24 119:9	213:13,13	explicitly 184:12
154:1,8 161:20	105:18	119:13,18,23	214:7,11 216:1	expose 118:12
169:5 174:4	exclusively	120:3,11	216:1,20,22	118:17 120:18
182:5 183:13	206:11	121:19,24	217:9 219:3,18	123:11 124:11
183:14 184:18	excuse 50:24	123:4 126:3,8	220:19,22,23	125:5,22
189:20 195:21	76:18 127:3	126:11,13,20	221:3,7 222:23	exposed 116:9
199:2 213:5	176:21 188:23	126:22 127:15	223:1,3,5,7,9	118:12,17
216:24 220:24	exhibit 4:2,18	128:19,23	226:6 227:1,22	120:18 123:11
223:4	6:2,4,8,16,17	129:9 130:6,19	228:5	123:24,24
Evidently 51:22	6:24 7:9 8:4,5	131:12 134:13	exhibits 8:15,17	124:10 125:4
exact 10:17	8:12 10:24	138:13,16,20	58:15 60:12,15	125:14,22
60:23,24 61:19	11:1 13:5	140:6,7 141:2	62:22 65:19	exposing 125:8
62:4 79:17	14:10 15:12,21	141:6,10	67:3,12,20	expressed 24:3
86:11 122:24	17:18,19 18:14	147:11,19,21	68:8,22 69:4	extending
152:18,18	18:19,20 20:11	148:1,2,6,6,7	70:10,21 71:10	177:20
185:20 222:19	21:19 22:15	149:4,7,9,12	73:11 112:19	extends 178:8
222:20 225:18	25:24 26:10	149:20 150:5,8	148:11,14	179:1
225:18 227:16	28:8,8 29:8	150:8,10,15	168:17 169:1	extension
	- I		•	-

L.A. Court Reporters, L.L.C. 312-419-9292 Page 247

Î.				2
160:10,18	federal 60:1,18	80:16 155:10	118:16 119:3	forum 159:23
extent 44:12	Feel 117:6	157:18 168:8	125:3,13,14	forward 185:7
133:22 135:1	feeling 208:8	174:12 177:7	fixes 113:17	found 102:2
139:19 200:20	feet 124:24,24	181:12 185:19	flat 99:17	111:13 133:3
213:19 227:15	211:24	212:11 226:8	flavor 79:21	177:11 186:24
extras 67:8	felt 134:7 142:11	227:3,24	flip 12:8	231:12
eye 198:7	fence 116:14,24	finding 8:20	Floor 1:13	foundation
<i>.</i>	138:4 139:24	fine 19:20 48:2	flow 40:18 84:15	13:12 23:18
F	fenced 116:7,12	49:6 99:1,10	86:13 132:14	37:18 39:7
facility 50:1,19	field 8:13 17:13	103:13 107:4,7	133:6,7 157:5	55:20 134:4
51:4 64:8,19	17:17 18:4	123:3 126:2	231:17	167:1,22 169:1
65:21 67:23	19:13 20:16,21	134:2 208:13	flows 133:9	200:9,22
70:23 71:3	26:13 31:5,6	210:15 227:19	flush 88:12	foundry 164:19
74:21,21 76:24	31:18 44:1	230:19	fly 175:4,12	165:1
77:17,20 116:8	62:2 84:6	finer 133:3	177:24 178:9	four 16:4,6 46:2
116:15 156:2	114:15,18,19	finish 230:10	focused 77:21	87:4,9,17 88:7
201:3	114:20,21	finished 234:23	focusing 203:24	123:9,22 124:9
fact 57:4 85:17	115:3,11,12	firm 40:7 44:1,5	folder 162:19	125:8,13,14
104:19,23	118:8 178:21	221:16 224:11	163:3,4,10	151:15 211:2
152:17 154:17	214:23 215:4	226:1	folders 163:14	225:5,7 228:22
211:20	218:21	firms 226:2	folks 226:1	231:2
factors 23:10	fifth 26:1 48:19	first 5:7,24	follow 193:1	fourth 149:9
facts 57:5	figure 52:11	10:14,24 11:4	follow-up 5:5	150:20 170:11
179:10	63:5,24 77:12	13:20 15:1	42:1	170:13,20
failed 31:19	127:22 132:21	16:11 22:14	followed 22:21	181:1
failing 42:17	134:20 135:8	26:18 27:6	following 62:13	frame 15:24
fair 35:1 89:11	135:11 137:21	36:5 39:7,16	71:18 94:11	44:11 224:13
115:23 125:21	158:13 160:8	39:20 45:17	follows 10:4	frames 225:19
134:23 135:3	180:10 203:9	46:9 54:20	39:17	FRANZETTI
163:13 180:15	218:23	73:4 88:20	foot 50:13 125:1	2:12
204:3	figures 61:19	94:23 95:3	footnotes 189:4	free 117:6
fairly 224:22	139:14	96:10 99:6	189:7	127:14
FAITH 2:7,8	file 162:19	105:17 109:5	foregoing 236:7	front 9:16 59:22
falls 207:18	filed 20:11	111:12 115:5	form 47:5	72:13 82:21
familiar 34:20	fill 10:16 14:3	115:18 122:3	123:17 229:5	103:4 104:14
37:2 74:23	15:2 16:17	148:24 149:11	format 86:21	122:1 126:17
78:13 133:21	53:17	167:23 170:6	167:9 182:18	126:19 130:18
141:12 162:15	filled 18:15 19:4	195:12 196:18	183:19 185:17	138:19 150:14
162:17,22	19:15,15	200:4 213:17	189:1 190:14	165:12 205:12
163:1 182:17	fills 19:12	217:22 221:7	former 112:21	217:8 226:11
185:5	final 16:20	221:22 224:7,9	112:22,23	full 124:6
far 17:3 37:4	138:5	227:21 236:4	118:5 120:14	202:11 220:5,6
42:13 233:24	finalized 202:9	fish 7:2	129:4,24 130:9	221:23
FBUGEL@G	finally 12:17	fits 82:22	formerly 95:9	fumbling 8:2
2:10	15:11 16:23	five 23:5,7 46:13	105:21 218:7	further 57:3
features 115:13	183:11	69:10 115:8	218:14	62:5 85:7
115:14 124:24	find 9:13 73:15	116:7 118:11	forth 21:22	138:2 143:7
	1	I	I	I

L.A. Court Reporters, L.L.C. 312-419-9292 Page 248

Page 249

r				2
147:18,19	119:10,24	gander 34:23	41:24 42:11	79:16,21 91:23
155:2 172:14	120:1 121:15	geed 77:23	43:8,14,16,22	107:12 130:22
181:21 210:2,4	121:16 123:13	Gen 6:2 11:1,2	44:24 55:19	174:11 179:18
222:4 234:19	123:17 124:1	11:12,24 12:9	56:9,11 57:22	206:2 208:11
furthermore	126:9 127:1,9	13:3,9 15:20	59:7,24 61:1	216:13 231:15
184:9 187:16	128:24 130:1	17:19 18:13,20	62:11,12 73:2	giving 168:15,17
future 58:14	134:4 135:1	19:4 20:12	74:5,8,11	GMZ 87:11
Iuture 50.14	136:18 138:14	21:19,23 23:16	75:19,22 91:7	137:17 140:10
G	140:17 141:3	24:16 28:8	91:15 95:1,7	143:13 144:22
G 54:23 68:8	143:19 144:1	29:8 33:15	96:15 105:19	145:8 147:8,14
G-n-a-t 39:22	144:18 145:5	35:10 36:1,20	107:8,23 131:6	202:3,10,10,16
G2 98:20	145:21 147:22	72:18 75:11	139:5 141:21	202:20 203:9
gain 231:19	147:23 152:2	117:4 119:22	145:9 150:16	202:20 203:5
Gale 2:13 3:7	152:13 153:10	130:20 162:24	151:4 156:13	203:13,20
39:1 41:21,22	152:13 155:10	165:10 168:8	156:15 182:20	Gnat 3:5 38:17
42:5,17 43:9	153:17 154:4	175:3 186:14	191:9 192:17	39:15,22,24
44:12,19 51:12	155:18 158:2,9	192:3,21,22,24	191:9 192:17	41:20 43:1,5
51:13,20,24	161:9,16,17	192:3,21,22,24	196:11 199:13	45:10 52:7
52:23 54:10,12	165:21,22	207:11 214:17	201:12 203:3,8	53:8 56:21
54:13 55:1,20	167:1,21	216:3 217:9	201:12 205:5,8	64:5 65:18
56:21 57:3,13	169:12,18	Gen's 200:14	203:12,22	67:2,20 68:20
57:18 58:19	171:16,21	general 59:13	205:6,11 206:4	70:19 72:13
59:18 60:14	172:1,4 173:10	75:1 79:18	206:9,20,24	74:19 75:15
61:10,23 62:23	172:13,15	97:22 122:20	209:15 217:18	76:14 78:1,6
63:8,10,16	174:6 176:23	123:1 124:18	217:21 218:15	80:23 84:16
64:13 65:5,7	179:10,20	130:8 157:12	217:21 218:13	91:18 92:11
66:17,18 68:7	180:3 182:2,3	176:15 194:13	221:18 223:18	94:2 102:15
70:11,12 71:11	183:8 184:16	generally 43:7	224:11,18,22	103:17 112:17
71:12 72:21	192:5 193:18	44:13 74:23	225:8,13,21	121:22 128:8
74:3,15 75:23	195:17 197:3	75:3 90:22	226:2,15 229:3	131:11 141:9
76:2,7 78:3,9	197:15,18	119:11 142:20	229:22 230:3,4	145:2,17
79:11 80:12	198:1,20,21	159:18 163:17	230:14,22	146:21 148:5
81:21 85:16	200:9,22	193:10	Generation's	152:7,14
87:11 88:9,12	202:12 203:11	generated	6:15 74:6	158:18 166:9
88:23 89:6	204:11,20,23	229:21	geologic 53:6,13	169:15 175:2
90:4,16 92:4,5	206:12 209:16	generating	geologically	176:6 183:18
93:18,19 96:7	212:24 213:1	75:11,22,24	133:5	185:5 190:2,7
96:17 97:13	216:7,8 220:20	138:23 141:21	geologist 198:8	190:22 191:14
98:13 101:10	222:24 224:1	149:1 150:16	geologists 84:18	199:4 203:16
102:14,15	225:23 227:15	198:13 199:17	geotechnical	206:22 207:2
104:3,5 105:5	229:5,18 230:7	Generation 1:7	45:5,15 46:2,4	207:10 208:8
107:9,16 108:2	230:10,13	5:15 8:10 11:9	46:6 52:11	214:16 223:16
110:16,18	231:4,24 232:3	21:10 22:15	197:9 221:16	230:2,21
112:4 113:14	232:17 233:18	23:7 24:21,23	getting 6:11	Gnat's 186:20
113:24 114:4	233:21	25:2,10,14,24	25:5 86:12	go 17:4 22:12
114:23 117:9	Gale's 103:11	26:10 40:21	144:6	23:14 28:9,14
117:10,12	168:23 174:23	41:1,6,8,14,16	give 15:23 69:1	30:15,17 35:10
		, , , , , , , , , , , , , , , , , , , ,	0	- ,

Page 250	Page	250
----------	------	-----

				2
38:8,8,11	225:4	GREG 2 :18	205:8 206:11	9:18 13:4,7,15
50:21 67:13	goose 34:23	greg.wannier	211:11,14	15:18 19:21
73:14 75:7	gosh 7:8 15:13	2:20	214:4 215:7	20:6,13,17
104:6 105:4,5	gotten 222:14	Gregory 38:20	227:1,22	23:20 24:11
128:1 153:1	governmental	ground 20:23	228:16 229:10	25:16,19 27:3
157:24 162:2	208:6	40:12,18 41:2	230:24 231:1,6	30:13,16,19
185:2,7,24	GP-1 98:3,5	43:23 44:2,4	231:17	32:7,17 33:2
186:1,3 189:3	109:19,21	55:13 56:5	grounds 44:18	34:9,22 35:2
192:5 209:12	GP-13 110:11	61:21 64:17	153:7	36:16 37:9,18
212:11 215:3	111:4,16,22	71:2 75:20	group 5:16 40:3	38:5,7,11,18
217:1 222:19	GP-13A 110:8	77:1,10 81:16	54:19,23 62:21	38:22,24 39:4
223:16 227:11	GP-15 111:14	83:2,12,20	62:24 65:12,20	39:10,13 41:21
227:18 228:6	GP13 100:9,22	84:5,10,12,15	67:3 68:5,7,14	42:2,19 43:11
229:23 234:20	GP13A 100:16	84:20 85:2	68:21 70:13,20	44:17,20 45:7
goal 95:9	100:22	86:5,13,18,21	71:9,23 91:20	48:7 49:9
goes 62:17 81:5	GPS 122:21	87:12,18,20,23	93:16 108:21	51:12,14,21
105:23 138:3	grade 18:11	88:9,17 89:19	112:18 113:15	52:5,24 53:24
179:2 216:3	graded 30:4,7	89:24 91:22	148:6,10	54:3,6,11,14
going 8:17 9:2	gradient 142:20	92:18 95:10	149:20 150:5,8	55:22 56:24
16:4 25:11	143:3,7 172:23	99:8 105:21	150:19 169:16	57:11,16 58:22
26:11 29:8	172:24 180:16	131:23 132:1,5	181:24 184:5	59:19 61:3,23
31:22 36:4	180:19	135:22 136:3	213:13,13	62:15 63:4,7
38:11 39:4	grading 18:10	136:17 138:22	215:24 216:20	63:14,22 64:14
42:24 43:5	30:7	139:6,12,14,17	grouped 163:15	65:4,11 66:17
44:12 45:3	grand 75:10	139:19 142:21	grouping 113:20	66:19 67:5,10
51:18,22 55:1	grant 42:24	143:1,16 144:7	114:1	67:14,17 68:12
57:13 62:23	103:10	144:8 145:13	grow 224:17	70:12 71:11,20
72:14 75:7,8	granular 48:22	146:23 147:2	guess 8:2,24	72:4,8,19 73:4
84:9 94:19	49:15	148:24 149:8	41:22 43:20	73:7,10,14,24
103:10 104:11	grappling	149:10,14	164:17 213:17	74:3,12,17
107:12 113:6	132:12	151:1 153:2	231:9	76:1,3,8,11
113:14 114:16	gravel 15:3	156:22 158:11	guide 97:24	78:4,11 79:15
126:20,21,22	16:18 47:4,19	158:16,19	Gunther 17:20	80:8,15,20
138:19 140:17	48:3,14,22	160:3 161:1,2	17:21,24 18:15	81:23 85:18
141:9 149:16	49:16 99:14,17	161:6 162:8	19:6 21:6	86:2 87:15
162:11 175:15	100:2	166:13,15,19	guys 9:4 24:6	88:11,24 89:9
183:8,21 185:6	gravelly 132:6	166:22,23	29:10	90:18 92:4,6
188:8 190:12	132:10 135:7,9	167:15,19		93:19 96:8,18
191:12 208:9	135:9,14,22	170:7,10,12,14	$\frac{\mathrm{H}}{\mathrm{H}}$	97:15 101:12
208:16 210:2,3	gray 47:19 48:2	170:21 180:8,9	H 4:1 62:21 68:8	102:14,22
210:9 213:9,16	49:7 50:11	180:24 182:15	Hairline 222:5,9	103:1,10 104:4
216:9 221:6	100:5,18	182:19 183:3	half 109:6	104:7 105:6,9
226:7 231:9	great 9:20 67:9	184:3 187:1,8	Halloran 1:14	107:10,12,20
233:24	127:23 182:8	187:21 190:4,9	2:2 5:1,6,8 6:9	108:4 112:5,9
good 5:7 34:22	235:2	199:7,16 200:2	6:15,19 7:3,11	112:13 113:22
34:23 154:23	greater 16:22,23	201:5 203:24	7:16,19,21	114:5 115:1
182:6 224:22	27:19 125:7	204:18,21,24	8:19,22 9:6,9	117:9,13
	I	1	1	

Page 251

				_
119:14,20,24	200:11 202:14	hear 124:15	102:14,22	188:11,16,20
120:2,5,23	203:15 204:12	134:16	103:1,10 104:4	189:16 190:1
120:2,3,25	204:22 205:3	heard 131:16	104:7 105:6,9	190:19 192:5,7
123:15,20	207:1 208:7	hearing 1:11,14	107:10,12,20	192:9 195:18
126:10,21	209:4,8,12,17	2:2 5:1,2,4,6,9	108:4 112:5,9	197:4,16,21
127:7,11,16,19	209:23 210:3	5:18 6:9,15,19	112:13 113:22	198:20,22
128:1,5,11,14	210:11,14,17	7:3,11,16,19	114:5 115:1	200:11 202:14
128:22 131:11	210:20 212:24	7:21 8:19,22	117:9,13	203:15 204:12
131:15 134:9	213:2 214:12	9:6,9,18 13:4,7	119:14,20,24	204:22 205:3
135:4 136:20	216:4,6,9,13	13:15 15:18	120:2,5,23	206:3 207:1
136:23 137:4,8	216:15,19	19:21 20:6,13	121:3,15,17	208:7 209:4,8
138:15 140:6	217:3,5 220:21	20:17 23:20	123:15,20	209:12,17
141:4 143:21	223:1,13 224:3	24:11 25:16,19	126:10,21	210:3,11,14,17
144:4,23	225:10 226:7	27:3 30:13,16	127:7,11,16,19	210:20 212:24
145:16 146:3,9	228:8,10 229:7	30:19 32:7,17	128:1,5,11,14	213:2 214:12
146:12,15,19	229:24 230:12	33:2 34:9,22	128:22 131:11	216:4,6,9,13
147:22,24	230:17 232:6,9	35:2 36:16	131:15 134:9	216:15,19
148:8,12,13,15	232:18,21	37:9,18 38:5,7	135:4 136:20	217:3,5 220:21
150:7 153:8,12	233:11,13,23	38:11,18,22,24	136:23 137:4,8	223:1,13 224:3
153:14,16	234:4,20,23	39:1,4,10,13	138:15 140:6	225:10 226:7
154:2,5,23	hand 39:11	41:21 42:2,19	141:4 143:21	228:8,10 229:7
155:9,13,23	hand-held	43:11 44:17,20	144:4,23	229:24 230:12
158:3,17	122:21	45:7 48:7 49:9	145:16 146:3,9	230:17 232:6,9
161:10,17,23	handed 67:11	51:12,14,21	146:12,15,19	232:18,21
162:3 165:12	162:17,23	52:5,24 53:24	147:22,24	233:11,13,23
165:17,21	handful 224:14	54:3,6,11,14	148:8,12,15	234:4,20,23
166:1,4 167:3	224:16	55:22 56:24	150:7 153:8,12	236:10
167:24 168:11	handled 156:3	57:11,16 58:22	153:14,16	hearsay 180:3
169:4,9,13	handling 142:22	59:19 61:3	154:2,5,23	Heather 18:3
172:3,6 173:15	143:17 146:24	62:15 63:4,7	155:9,13,23	height 30:3
174:5,21	155:17	63:14,22 64:14	158:3,17	help 101:20
175:14 176:3	Hang 28:11	65:4,11 66:17	161:10,17,23	177:5 188:13
176:19,23	happened 31:11	66:19 67:5,10	162:3 165:12	188:18 211:18
177:7,10	70:14 191:16	67:14,17 68:12	165:17,21	225:1 227:3,23
179:12 181:7	happy 119:19	70:12 71:11,20	166:1,4 167:3	228:2 229:15
181:11,14	hard 79:16	72:4,8,19,21	167:24 168:11	helped 157:1
182:2,6,9	132:13	73:4,7,10,14	169:4,9,13	helpful 73:23
183:17,23	hashed 160:17	73:24 74:12,17	172:3,6 174:5	helping 205:18
185:4,10	199:24	76:1,3,8,11	174:21 176:3	229:2
186:19,23	HDP 193:17,21	78:4,11 79:15	176:19 177:7	higher 87:19
187:23 188:3,7	HDPA 26:2,3,7	80:8,15,20	177:10 179:12	88:15,21 89:3
188:11,16,20	HDPE 23:16	81:23 85:18	181:4,7,11,14	89:13 133:1
189:16 190:1	24:2,8,17,21	86:2 87:15	182:2,6,9	181:18
190:19 192:7,9	24:24 25:10	88:11,24 89:9	183:17,23	highlight 89:21
195:18 197:4	26:7	90:18 92:4,6	185:4,10	hired 205:19
197:16,21	head 84:12	93:19 96:8,18	186:19,23	historic 143:17
198:20,22	163:16	97:15 101:12	187:23 188:3,7	155:16

Page 2	252
--------	-----

1				5
historical	84:4,8	229:16,21	186:2 197:2	184:2 185:15
142:22 144:11	hose 27:16	236:1	included 94:13	187:15,18,20
146:23 147:3,4	hot 136:6	imagine 26:4	94:15 97:22	203:7 204:15
155:6	hour 1:12	162:19 185:18	111:5 113:13	205:5,15 206:1
history 82:10	hours 208:12	immediately	113:20 114:16	206:10,20
95:4 105:17	housekeeping	81:13 96:3	114:22 115:16	207:18 212:12
205:23	5:24 6:13,21	172:23	121:8 126:5	215:20 231:18
hold 63:4,7	7:23 128:17	impact 136:4	128:20 151:16	232:4
126:18 150:17	hurry 166:5	impacted 142:21	152:12 172:17	informed 19:4,6
155:9 173:10	hydrogeological	143:16 144:8	184:3 207:13	204:16,17
216:6 230:12	231:1	146:23 147:2	233:7 234:11	205:7
holding 214:8	hydrogeology	impacts 86:18	includes 40:17	informs 231:14
holes 17:14	231:7	implementing	45:4 46:1,4	initial 35:21
20:23 21:24		225:2	54:23 91:20	101:14 115:16
hone 168:14	<u> </u>	implies 137:15	93:17 98:20	124:16 132:11
honestly 113:7	IAC 88:5	imply 197:24	99:12 102:17	203:2,21
113:12 174:14	identical 61:2	198:5	112:19 115:8	input 205:9
206:1	identified 69:10	important 168:4	118:8 148:7	inquire 208:16
Honor 43:3	115:24 116:6	174:19	151:22 157:5	inside 17:15
44:16 45:8	116:23 118:11	impossible	169:16 181:24	29:12 30:1
48:6 51:9	118:16,21	184:24	184:1 213:14	insides 14:3
53:21 54:7	120:17 122:18	impoundment	including 61:14	inspect 129:23
57:7 61:12	124:9 125:22	23:10	140:1 174:17	193:13
63:3,6 67:7	203:23	impoundments	inclusion 7:15	inspected 222:8
72:11 73:16	identify 38:18	75:3	71:17 153:5	inspection 82:7
76:4 78:10	123:9,22 219:9	inaccurate	234:17	90:24 112:20
79:13 80:6	identifying	194:7	incomplete	115:6,23 118:5
85:19 87:14	125:10	inadmissible	102:21	118:8,10,15,20
92:1 93:15	IEPA 60:9 147:6	72:23	incorrect 25:4	120:13 123:6
102:12 112:11	147:13,14	inch 11:14	98:19 233:5	124:9,19 125:3
114:3 127:12	201:18,23	inches 10:14,16	independently	127:2,5 129:11
128:16 131:18	203:4,22 204:4	10:19 11:17	184:14	129:15,19,22
137:1 145:10	205:12	12:2,13,19	indicate 69:21	130:4,5,9,10
146:18 152:22	IEPA's 202:7	14:2,24 15:1	198:11	191:2 192:18
154:9 161:22	ignoring 95:6	16:12,14,20,22	indicated 19:13	192:19 193:22
168:1 169:3	Illinois 1:1,14	35:18 125:8	66:5 202:19	193:24
171:22 174:1	2:5,9,14 5:9	incision 124:23	indicating	inspections
174:11,14	60:20 77:23	inclination	198:12	17:23 82:10
180:22 185:2	131:6 139:5	208:7	individual 62:10	112:23 113:18
189:21 206:22	141:19,24	include 19:10	information	129:4,8
208:1 214:4	142:2,8 143:5	57:20 61:1	10:8 57:14,15	installation
215:9 217:1	143:12,14	62:9 77:16,19	57:17 68:2	18:11 26:2
223:9	144:14 154:14	95:8 105:19	71:6 93:9	194:19 196:10
hop 12:24	196:3,8 199:14	111:5 114:18	109:1 140:23	installed 23:15
hoping 63:5	201:13 203:13	116:16 117:7	150:1 153:24	163:7,9
Hopping 11:1	208:5,5 220:12	138:7 140:12	167:6 179:8,17	installing 18:9
horizontal 84:2	1 1 1 6 6 1 /1 1 1 1 / 1 / 1 / 1 /			
norizontal 64.2	225:14 227:6	152:20 183:3	179:24 180:4	intake 85:5 86:9
Page	253			
------	-----			

intend 62:6	123:2 205:9	July 8:11 26:13	225:19 226:7	165:1 178:10
197:24	issuing 52:14	97:9 108:23	knowing 86:11	labeled 78:21
intended 164:7	item 100:12	127:3	188:23	111:17,20
176:10	128:21	June 98:21,24	knowledge	178:9 219:13
intending 198:5	items 41:3 123:1	109:12 226:15	46:11,18 50:1	labels 46:14
intent 101:21,21	143:5	226:16,23	50:19 82:14	79:7,8,10
124:18	Its's 174:22	jury 61:4	87:8,17 90:3	82:18 176:7
interaction			116:19 119:4	laboratory 46:6
202:5	J	K	135:6 162:10	62:3 221:17,23
interest 42:20	J 67:3 68:5	K 68:21 236:2	168:21 176:16	laborers 26:23
interesting	J222 4:6 68:15	K229 4:6 70:13	179:16,18	27:11
194:10	68:16	70:15	201:9 227:12	lack 167:1 200:9
intermediate	J228 4:6 68:17	keep 45:7 49:9	knows 107:11	200:22
142:19 143:8	January 75:18	104:13	108:3,5 197:18	laid 167:22
intern 11:8	131:6,12,14	kept 163:14	197:19	194:14
12:24	139:5 151:2,3	key 218:24	KPMG 93:13	Lake 157:11,22
interpretations	156:14 196:9	kind 23:11	149:22	157:24 158:10
143:5 211:22	199:15 227:8	29:19 127:21	KPR 224:10	158:14,20
231:21	228:2,3,13	153:9	KPRG 40:1,2,4	159:4
interpreting	229:4	know 17:7,11	98:20,23 99:2	land 69:7
231:17	JENNIFER	20:8 28:15	109:11,21	landfill 82:20
introduce 52:1	2:13	31:22 33:6,17	110:4 113:24	language 137:12
60:19 71:8	jn@nijmanfra	33:21,24 34:1	116:6 124:9	142:13,14
103:8 127:15	2:15	34:3,6,13,17	127:3 132:15	143:24 144:15
introduced	job 168:24	35:6,20 37:23	141:19 157:2	144:17,20,21
184:5 224:10	Joliet 45:22	55:5 69:2	163:9 167:12	155:7
introducing	50:18,20 52:13	77:19 78:21	171:19 172:15	large 13:10,18
51:18 54:21	52:19,20 55:2	82:4,10,23	189:13 192:16	200:24 201:2
184:10 223:8	55:13,15,16	84:23 90:4,7	193:12 195:4	larger 29:10
introduction	59:21 60:23	91:24 94:7,10	215:16 217:17	53:20 202:19
65:2 186:14	64:11 73:22	96:15 106:12	218:12 224:10	218:23 219:7
involve 206:24	74:20,23 75:4	107:1,2 148:17	228:15	224:19
involved 25:2	75:11,22 76:5	153:8 156:1,3	KPRG's 171:15	LaSalle 2:13
208:22 226:2	76:6,9,23	159:15,21	172:11 183:10	late 230:5
iron 136:13	77:16,20 78:2	162:7,21	215:3	Lately 168:15
ISE 137:12	80:19 81:20	167:10 168:12	KRISTEN 2:13	latitude 107:13
isolated 133:1	83:13,16,21	168:16,23		law 1:3 2:3,7
issue 6:23 16:24	86:19 91:22	171:23 174:8	L	5:12
17:12,14 19:24	92:19 94:6	176:10,11	L 2:13 70:20	lay 194:15
45:1 52:22	95:1,7 96:11	178:2,3 179:6	71:9,23	layer 10:14 15:1
122:17 127:24	103:20 105:14	184:23 187:23	lab 55:3,12,12	15:1,3 16:11
210:9 225:5,7	105:19 106:19	189:3 190:14	56:15,16 64:7	16:14,17,20
issued 23:8 25:6	112:21,23	197:14 200:20	64:11,11 65:20	19:3 32:3,14
102:16 115:7	116:7,21 119:4	200:24 201:3	66:7 67:22	32:21 33:5,12
129:23 225:19	119:5 120:14	202:21 204:24	69:8 70:22	35:18,22 36:5
225:20	129:4 227:13	207:1 208:12	187:20	36:6,8,9 37:4,5
issues 122:19	227:23	218:17 222:17	label 163:3,4,10	48:1,24 50:14
	I	l	I	,

Page 254

r				2
53:18,19	142:11,15	233:4,4	147:1 159:17	162:24 175:2
100:19 193:17	145:2,3 148:10	lined 122:22	176:14 218:22	196:21 214:8
193:18	149:18 154:13	193:21	218:24 219:11	214:17 217:22
layers 10:8,10	154:13,17,19	liner 17:16 18:9	219:12	218:23,23
10:13 12:5	156:13,17	18:11 19:1,9	location 50:4	221:22
14:2 17:3	171:7,8,9,10	20:23 21:7	79:17 83:5	looked 132:19
35:17 37:2,11	191:3,12,21,23	22:6,20 23:17	106:19 110:14	looking 15:14
48:1,18 49:18	192:2,16,18	24:17 26:2	110:19 111:6	28:23 35:12
197:1	194:6,24 195:3	31:9,12 192:19	135:11 179:19	45:17 46:22
laying 169:1	195:12 196:1,2	193:13,18,19	locations 46:16	47:16 56:19
194:12	196:7,13,14	193:21 194:9	50:5 75:3	59:2,5 80:1
layout 74:24	199:13 218:13	194:12,13,14	83:16 90:12	101:17 102:23
201:3	220:4 221:20	194:15,18	102:2 108:13	103:2,3,4
ldubin@elpc	227:5,8,12,23	liners 194:10,18	108:21 109:11	116:3 122:10
2:5	letterhead 75:19	lines 77:12 84:2	125:13,14	131:12 133:1
leach 220:9,13	letters 112:20	84:2,4,8,8,11	159:22 181:19	139:12 155:11
leading 32:16,24	227:13,17	84:11,13,24	log 46:23 47:14	165:15 166:14
34:8 36:15	letting 28:15	85:15,20 86:4	47:24 48:16	177:13 180:8
37:8,17	level 133:2	135:17 157:5,5	49:1,3 53:6,13	187:9 211:22
leaning 174:9	135:10,10,23	157:8 221:24	100:9,16	218:5
learned 153:20	157:17 174:16	list 7:7 10:24	109:18,18	looks 162:20
left 29:15 88:1	198:5,7 213:21	11:14 76:20	110:8,11,13,14	183:19 197:20
136:10 160:13	levels 85:1	listed 11:7 21:23	111:4 196:18	lot 124:21 125:6
left-hand 137:2	132:13,24	122:7,11	196:22 197:11	231:12
137:11	134:20 157:19	167:19 191:23	198:8	low 74:13 84:15
legal 90:10,10	157:20 158:21	197:10	logged 197:7	lunch 127:21
206:17 225:21	161:13	listen 39:5	logs 51:4,7 53:9	128:1,7,19
legend 97:7	License 236:12	literally 200:10	98:22,23 110:4	129:3
98:16	lift 26:18 27:6	litigation 206:18	132:20 197:8	Lux 23:24 24:3
legible 6:7	36:24 37:4,5	207:22	197:19,20	24:5
legitimate 208:2	37:11	little 7:22 17:1	198:10,13	Lynn 141:19
let's 26:13 30:15	lifts 36:2	31:21 35:16	long 41:13 44:10	142:7 154:14
38:8 49:22	lighter 136:13	37:13 39:5	63:5 124:24	154:18 201:24
72:4 73:14	limiting 225:7	43:15 50:12	221:11 226:9	
99:4 113:7	Lindsay 2:3 7:6	58:14 79:14	longer 98:3	$\frac{M}{M}$
128:1 129:8	18:16	107:13 111:18	185:22	M 91:20 93:16
155:6 162:24	line 11:13 16:3	122:21 132:24	look 9:7,9 10:23	Maddox 3:3
176:18 201:8	28:22,24 48:20	133:5 138:2	11:12 14:10,23	5:21 6:22 7:24
224:9 233:21	49:14 50:10	145:19 191:7	15:11 17:19	8:14 10:2
234:20	53:16 84:15	207:4 222:15	18:12 20:10	27:20 38:8
letter 8:8 14:11	99:7,12,15	223:17 231:9	21:22 28:20	main 23:11 77:2
45:5,14 52:3	111:23 116:14	LLC 1:7 5:15	29:12 35:23	maintain 107:18
114:22 115:4	116:24 119:4	locate 79:23	56:17 63:23	189:15
121:9 127:3	137:22 138:1,4	80:4	79:23 87:1	maintenance
131:5 136:10	139:24 142:18	located 15:13	95:3 111:16	27:14 making 142:16
139:4 141:18	196:21 218:5	111:22 134:24	121:24 141:15	making 142:16 143:15 175:24
141:23 142:6,7	220:6 222:4	143:2 146:22	142:17 148:14	143.13 1/3.24
	•	•	•	•

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	1				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	man 93·20	160.2 3 12 14	106.10.14	mentioned	75.21 80.1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $,		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0	,			-
81:17 83:2173:9,20,21,24materials 106:6233:16107:23 117:487:12,23 88:9174:2,12 175:6201:20mettions 151:12119:22 120:2488:18 89:19,24175:9,10,13,22matter 5:11 6:14metal 151:9130:20 131:5138:22 139:7175:24 176:8 $6:22 41:24$ metal 151:9130:20 131:5144:7 162:8178:10 180:1086:1 130:8method 61:24151:3 156:13199:7,16,22180:13,18205:17 206:6220:6,9,11156:15 162:24200:3 201:5199:21 200:1206:19method 61:24151:3 156:13203:24 204:18205:22 210:23matters 5:24Michigan175:3 182:20204:21,24210:24 211:37:23157:12,22,24186:14 191:9205:8 206:11211:12,15mean 11:16158:10,14,21192:24 193:1,2manager 171:5218:23 219:7,922:9 32:5mid 230:5193:12 196:7Manganese219:1033:10 41:24middle 5:1 8:3196:11,15136:13mapped 133:2346:17 5:13,2328:22 47:11201:12 203:3,815:22 29:9,1174:5,10 79:19122:23 133:16200:5203:12,2223:12,16 36:5113:12 133:11153:1,2 159:1Midland 221:8204:48,1677:45 78:8,18102:17measure 37:23midwest 1:7206:8,20,2450:22 51:3174:1587:11 205:15:14 6:2,15 8:9207:11 208:1177:1,5 78:8,18192:17measure 211:1715:20 17:19216:3 217:9,1877:1,5 78:8,18192:17	· ·	,			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		173:9,20,21,24	materials 106:6	233:16	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	87:12,23 88:9			mentions 151:12	119:22 120:24
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	-		matter 5:11 6:14	metal 151:9	130:20 131:5
	138:22 139:7	175:24 176:8	6:22 41:24	metals 150:19	139:4 141:20
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	139:13,15,19	177:5,16 178:5	42:18 57:5	151:1,17	145:9 150:15
200:3 201:5199:21 200:1206:19methods 221:23165:10 168:8203:24 204:18205:22 210:23matters 5:24Michigan175:3 182:20204:21,24210:24 211:37:23157:12,22,24186:14 191:9205:8 206:11211:12,15mean 11:16158:10,14,21192:3,17,21,22227:2,23212:1,4,12,2019:15 20:3159:4192:24 193:1,2manager 171:5218:23 219:7,922:9 32:5mid 230:5193:12 196:7Marganese219:1033:10 41:24middle 5:1 8:3196:11,1533:10 41:24map 6: 15:13mapped 133:2346:1 75:13,2328:22 47:1199:13 200:14map 6: 6: 15:13mapped 13:2346:1 75:13,2328:22 47:1199:13 200:1437:2 46:10,13157:21 159:21167:12 224:2221:14205:5,11 206:449:24 50:3,18162:14 174:6means 37:23midwest 1:7206:8,20,2450:22 51:3174:1587:11 205:15:14 6:2,15 8:9207:11 208:1151:13,18 74:7marginal 61:24meant 19:1811:1,2,9,12,24209:15 214:1677:15, 78:8,18192:17measure 211:1715:20 17:19217:21 218:1478:19,21 79:6Mark 171:4measure d1:1618:13,20 19:4218:18,1979:7,9,9,23marked 94:461:1820:12,18 21:10221:17 223:1783:21 84:15,16138:20 162:1221:2524:21,23 25:226:11,15 229:385:4 86:17166:12 169:16measurement25:9,14,23220:22,8,12,2183:21 84:15,16 </td <td>144:7 162:8</td> <td>178:10 180:10</td> <td>86:1 130:8</td> <td>method 61:24</td> <td>151:3 156:13</td>	144:7 162:8	178:10 180:10	86:1 130:8	method 61:24	151:3 156:13
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	199:7,16,22	180:13,18	205:17 206:6	220:6,9,11	156:15 162:24
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	200:3 201:5	199:21 200:1	206:19	methods 221:23	165:10 168:8
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	203:24 204:18	205:22 210:23	matters 5:24	Michigan	175:3 182:20
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	204:21,24	210:24 211:3	7:23	157:12,22,24	186:14 191:9
manager 171:5218:23 219:7,922:9 32:5mid 230:5193:12 196:7Manganese219:1033:10 41:24middle 5:1 8:3196:11,15136:13mapped 133:2346:1 75:13,2328:22 47:1199:13 200:14map 6: 6 15:13maps 52:13 74:384:3 116:1381:12 192:1201:12 203:3,815:22 29:9,1174:5,10 79:1912:23 133:16200:5203:12,2235:12,16 36:5113:12 133:11153:1,2 159:1Midland 221:8204:4,8,1637:2 46:10,13157:21 159:21167:12 224:2221:14205:5,11 206:449:24 50:3,18162:14 174:6means 37:23midwest 1:7206:8,20,2450:22 51:3174:1587:11 205:15:14 6:2,15 8:9207:11 208:1152:13,18 74:7marginal 61:24meant 19:1811:1,2,9,12,24209:15 214:1677:1,5 78:8,18192:17measure 211:1715:20 17:19217:21 218:1478:19,21 79:6Mark 171:4measure 61:1618:13,20 19:4218:18,1979:7,9,9,23marked 94:461:1820:12,18 21:10221:17 223:1780:3,5,22103:16 115:18measurement21:19,23 22:15224:11,18,2281:48:17166:12 169:16measures 184:729:8 33:15Midwest's 154:6102:11 08:9,9221:7medium 47:335:10 36:1,20migration 13:23108:11,19marker 79:2248:3,22 49:740:21,24 41:6mid 10:23109:9,24 111:9marker 79:2248:3,22 49:740:21,24 41:6mid 10:23109:9,24 111:9 <t< td=""><td>205:8 206:11</td><td>211:12,15</td><td>mean 11:16</td><td>158:10,14,21</td><td>192:3,17,21,22</td></t<>	205:8 206:11	211:12,15	mean 11:16	158:10,14,21	192:3,17,21,22
Manganese219:1033:10 41:24middle 5:1 8:3196:11,15136:13mapped 133:2346:1 75:13,2328:22 47:1199:13 200:14map 6:6 15:13maps 52:13 74:384:3 116:1381:12 192:1201:12 203:3,815:22 29:9,1174:5,10 79:19122:23 133:16200:5203:12,2235:12,16 36:5113:12 13:11153:1,2 159:1Midland 221:8204:4,8,1637:2 46:10,13157:21 159:21167:12 224:2221:14205:5,11 206:449:24 50:3,18162:14 174:6means 37:23midwest 1:7206:8,20,2450:22 51:3174:1587:11 205:15:14 6:2,15 8:9207:11 208:1174:10,20 76:23Maria 52:420:8 26:712:8 13:3,9216:3 217:9,1877:1,5 78:8,18192:17measure 211:1715:20 17:19217:21 218:1478:19,21 79:6Mark 171:4measure d1:1618:13,20 19:4218:18,1979:7,9,9,23marked 94:461:1820:12,18 21:10221:17 223:1780:3,5,22103:16 115:18measurement21:19,23 22:15224:11,18,2283:21 84:15,16138:20 16:212212:524:21,23 25:2226:1,15 229:385:4 86:17166:12 169:16measurements25:9,14,23229:22 230:2,488:2 97:1 98:5182:14 190:3157:1626:10 28:8230:14,2298:16,19,20190:23 199:5measures 184:729:8 33:15Midwest's 154:6102:1 108:9,9221:7meting 73:549:15 50:1141:8,14,15,2314:14,23 15:14111:16,17,2	227:2,23	212:1,4,12,20	19:15 20:3	159:4	192:24 193:1,2
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	manager 171:5	218:23 219:7,9	22:9 32:5	mid 230:5	193:12 196:7
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Manganese	219:10	33:10 41:24	middle 5:1 8:3	196:11,15
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	136:13	mapped 133:23	46:1 75:13,23	28:22 47:1	199:13 200:14
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	map 6:6 15:13	maps 52:13 74:3	84:3 116:13	81:12 192:1	201:12 203:3,8
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	-	74:5,10 79:19		200:5	203:12,22
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	-		,		
$50:22\ 51:3$ $174:15$ $87:11\ 205:1$ $5:14\ 6:2,15\ 8:9$ $207:11\ 208:11$ $52:13,18\ 74:7$ marginal $61:24$ meant $19:18$ $11:1,2,9,12,24$ $209:15\ 214:16$ $74:10,20\ 76:23$ Maria $52:4$ $20:8\ 26:7$ $12:8\ 13:3,9$ $216:3\ 217:9,18$ $77:1,5\ 78:8,18$ $192:17$ measure $211:17$ $15:20\ 17:19$ $217:21\ 218:14$ $78:19,21\ 79:6$ Mark $171:4$ measure $61:16$ $18:13,20\ 19:4$ $218:18,19$ $79:7,9,9,23$ marked $94:4$ $61:18$ $20:12,18\ 21:10$ $221:17\ 223:17$ $80:3,5,22$ $103:16\ 115:18$ measurement $21:19,23\ 22:15$ $224:11,18,22$ $82:20\ 83:6,10$ $120:10\ 130:19$ $84:5,6\ 157:11$ $23:7,16\ 24:16$ $225:8,12,21$ $83:21\ 84:15,16$ $138:20\ 162:12$ $212:5$ $24:21,23\ 25:2$ $226:1,15\ 229:3$ $85:4\ 86:17$ $166:12\ 169:16$ measurements $25:9,14,23$ $229:22\ 230:2,4$ $88:2\ 97:1\ 98:5$ $182:14\ 190:3$ $157:16$ $26:10\ 28:8$ $230:14,22$ $98:16,19,20$ $190:23\ 199:5$ measures $184:7$ $29:8\ 33:15$ Midwest's $154:6$ $102:1\ 108:9,9$ $221:7$ medium $47:3$ $35:10\ 36:1,20$ mind $10:23$ $109:9,24\ 111:9$ markers $79:22$ $48:3,22\ 49:7$ $40:21,24\ 41:6$ mind $10:23$ $109:9,24\ 111:9$ markers $79:22$ $48:3,22\ 49:7$ $40:21,24\ 41:6$ mind $10:23$ $109:9,24\ 111:9$ markers $79:22$ $42:13\ 20\ 43:8$ $17:18\ 18:12$ $13:23\ 132:1,5$ $236:4,11$ <td< td=""><td>-</td><td></td><td></td><td></td><td></td></td<>	-				
52:13,18 74:7 74:10,20 76:23marginal $61:24$ Maria 52:4meant $19:18$ $20:8 26:7$ $11:1,2,9,12,24$ $12:8 13:3,9$ $209:15 214:16$ $216:3 217:9,18$ $216:3 217:9,18$ $217:21 218:14$ 78:19,21 79:6 79:7,9,9,23Mark 171:4 marked 94:4measure $211:17$ $61:18$ $15:20 17:19$ $217:21 218:14$ $218:18,19$ 79:7,9,9,23 80:3,5,22marked 94:4 $103:16 115:18$ $84:5,6 157:11$ $18:13,20 19:4$ $20:12,18 21:10$ $21:17 223:17$ $221:17 223:17$ $221:17 223:17$ $221:17 223:17$ $83:21 84:15,16$ $138:20 162:12$ $212:5$ $24:21,23 25:2$ $226:1,15 229:3$ $226:1,15 229:3$ $85:4 86:17$ $166:12 169:16$ $166:12 169:16$ $166:12 169:16$ $102:1 108:9,9$ $221:7$ $221:7$ $221:7$ $221:7$ $221:7$ $221:7$ $221:7$ $221:7$ $221:7$ $221:7$ $221:7$ $221:7$ $221:7$ $221:7$ $221:7$ $221:7$ $221:7$ $221:7$ $221:10 221:22222:22 230:2,4230:14,2223:13 26:1921:1,20 43:817:18 18:1213:23 132:1,523:6:4,1123:13 26:1923:13 26:1123:23 29:723:23 29:7145:13 151:6918:10 28:24$,				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				· · · · · · · · · · · · · · · · · · ·	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-	0			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	-				-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	-			· ·	,
82:20 83:6,10120:10 130:1984:5,6 157:1123:7,16 24:16225:8,12,2183:21 84:15,16138:20 162:12212:524:21,23 25:2226:1,15 229:385:4 86:17166:12 169:16measurements25:9,14,23229:22 230:2,488:2 97:1 98:5182:14 190:3157:1626:10 28:8230:14,2298:16,19,20190:23 199:5measures 184:729:8 33:15Midwest's 154:6102:1 108:9,9221:7medium 47:335:10 36:1,20migration 13:23108:11,19marking 73:549:15 50:1141:8,14,15,2314:14,23 15:14111:16,17,23MARZULLOmeet 13:2242:11,20 43:817:18 18:12131:23 132:1,5236:4,1123:13 26:1943:14,16,2121:18 22:14133:9 135:22material 10:1627:744:24 55:1926:11 28:7,15137:2 139:1613:22 14:3meetings 201:1856:9,11 57:2128:23 29:7145:13 151:6,918:10 28:24memo 35:2259:6,24 61:188:20156:23 157:1,529:2 34:6,13221:862:11,12 72:18minus 211:24158:20,2234:17 47:8,9memory 94:1273:2 74:4,6,8212:9				-	
83:21 84:15,16138:20 162:12212:524:21,23 25:2226:1,15 229:385:4 86:17166:12 169:16measurements25:9,14,23229:22 230:2,488:2 97:1 98:5182:14 190:3157:1626:10 28:8230:14,2298:16,19,20190:23 199:5measures 184:729:8 33:15Midwest's 154:6102:1 108:9,9221:7medium 47:335:10 36:1,20migration 13:23108:11,19markers 79:2248:3,22 49:740:21,24 41:6mind 10:23109:9,24 111:9marking 73:549:15 50:1141:8,14,15,2314:14,23 15:14111:16,17,23MARZULLOmeet 13:2242:11,20 43:817:18 18:12131:23 132:1,5236:4,1123:13 26:1943:14,16,2121:18 22:14133:9 135:22material 10:1627:744:24 55:1926:11 28:7,15137:2 139:1613:22 14:3meetings 201:1856:9,11 57:2128:23 29:7145:13 151:6,918:10 28:24memo 35:2259:6,24 61:188:20156:23 157:1,529:2 34:6,13221:862:11,12 72:18minus 211:24158:20,2234:17 47:8,9memory 94:1273:2 74:4,6,8212:9				, , , , , , , , , , , , , , , , , , ,	
85:4 86:17166:12 169:16measurements25:9,14,23229:22 230:2,488:2 97:1 98:5182:14 190:3157:1626:10 28:8230:14,2298:16,19,20190:23 199:5measures 184:729:8 33:15Midwest's 154:6102:1 108:9,9221:7medium 47:335:10 36:1,20migration 13:23108:11,19markers 79:2248:3,22 49:740:21,24 41:6mind 10:23109:9,24 111:9marking 73:549:15 50:1141:8,14,15,2314:14,23 15:14111:16,17,23MARZULLOmeet 13:2242:11,20 43:817:18 18:12131:23 132:1,5236:4,1123:13 26:1943:14,16,2121:18 22:14133:9 135:22material 10:1627:744:24 55:1926:11 28:7,15137:2 139:1613:22 14:3meetings 201:1856:9,11 57:2128:23 29:7145:13 151:6,918:10 28:24221:862:11,12 72:18minus 211:24158:20,2234:17 47:8,9memory 94:1273:2 74:4,6,8212:9	-				
88:2 97:1 98:5182:14 190:3157:1626:10 28:8230:14,2298:16,19,20190:23 199:5measures 184:729:8 33:15Midwest's 154:6102:1 108:9,9221:7medium 47:335:10 36:1,20migration 13:23108:11,19markers 79:2248:3,22 49:740:21,24 41:6mind 10:23109:9,24 111:9marking 73:549:15 50:1141:8,14,15,2314:14,23 15:14111:16,17,23MARZULLOmeet 13:2242:11,20 43:817:18 18:12131:23 132:1,5236:4,1123:13 26:1943:14,16,2121:18 22:14133:9 135:22material 10:1627:744:24 55:1926:11 28:7,15137:2 139:1613:22 14:3meetings 201:1856:9,11 57:2128:23 29:7145:13 151:6,918:10 28:24221:862:11,12 72:1888:20156:23 157:1,529:2 34:6,13221:862:11,12 72:18minus 211:24158:20,2234:17 47:8,9memory 94:1273:2 74:4,6,8212:9	· · · · · ·			·	-
98:16,19,20190:23 199:5measures 184:729:8 33:15Midwest's 154:6102:1 108:9,9221:7medium 47:335:10 36:1,20migration 13:23108:11,19markers 79:2248:3,22 49:740:21,24 41:6mid 10:23109:9,24 111:9marking 73:549:15 50:1141:8,14,15,2314:14,23 15:14111:16,17,23MARZULLO236:4,11meet 13:2242:11,20 43:817:18 18:12131:23 132:1,5236:4,1123:13 26:1943:14,16,2121:18 22:14133:9 135:22material 10:1627:744:24 55:1926:11 28:7,15137:2 139:1613:22 14:3meetings 201:1856:9,11 57:2128:23 29:7145:13 151:6,918:10 28:24221:859:6,24 61:188:20156:23 157:1,529:2 34:6,13221:862:11,12 72:18minus 211:24158:20,2234:17 47:8,9memory 94:1273:2 74:4,6,8212:9					
102:1 108:9,9 108:11,19221:7 markers 79:22 marking 73:5medium 47:3 48:3,22 49:7 49:15 50:1135:10 36:1,20 40:21,24 41:6 41:8,14,15,23migration 13:23 mind 10:23109:9,24 111:9 111:16,17,23marking 73:5 MARZULLO 236:4,11meet 13:22 236:4,1142:11,20 43:8 43:1214:14,23 15:14 13:22133:9 135:22 137:2 139:16material 10:16 13:22 14:327:7 meetings 201:1844:24 55:19 56:9,11 57:2126:11 28:7,15 28:23 29:7145:13 151:6,9 156:23 157:1,518:10 28:24 29:2 34:6,13 34:17 47:8,9memory 94:1259:6,24 61:1 73:2 74:4,6,888:20 minus 211:24					<i>,</i>
108:11,19 109:9,24 111:9markers 79:22 marking 73:548:3,22 49:7 49:15 50:1140:21,24 41:6 41:8,14,15,23mind 10:23 14:14,23 15:14111:16,17,23 131:23 132:1,5MARZULLO 236:4,11meet 13:22 236:4,1142:11,20 43:8 23:13 26:1917:18 18:12 21:18 22:14133:9 135:22 137:2 139:16material 10:16 13:22 14:327:7 meetings 201:1844:24 55:19 56:9,11 57:2126:11 28:7,15 28:23 29:7145:13 151:6,9 156:23 157:1,518:10 28:24 29:2 34:6,13memo 35:22 221:859:6,24 61:1 62:11,12 72:1888:20 minus 211:24158:20,2234:17 47:8,9memory 94:1273:2 74:4,6,8212:9					
109:9,24 111:9 111:16,17,23marking 73:5 MARZULLO 236:4,1149:15 50:11 meet 13:2241:8,14,15,23 42:11,20 43:814:14,23 15:14 17:18 18:12131:23 132:1,5 133:9 135:22236:4,11 material 10:16meet 13:22 23:13 26:1943:14,16,21 44:24 55:1914:14,23 15:14 17:18 18:12137:2 139:16 145:13 151:6,913:22 14:3 18:10 28:24meetings 201:18 27:756:9,11 57:21 59:6,24 61:1 62:11,12 72:1828:23 29:7 88:20156:23 157:1,5 158:20,2229:2 34:6,13 34:17 47:8,921:18 memory 94:1273:2 74:4,6,8212:9	· · · · ·			, , , , , , , , , , , , , , , , , , ,	0
111:16,17,23 131:23 132:1,5MARZULLO 236:4,11meet 13:22 23:13 26:1942:11,20 43:8 43:14,16,2117:18 18:12 21:18 22:14133:9 135:22 137:2 139:16material 10:16 13:22 14:327:7 meetings 201:1844:24 55:19 56:9,11 57:2126:11 28:7,15 28:23 29:7145:13 151:6,9 156:23 157:1,518:10 28:24 29:2 34:6,13 34:17 47:8,9memory 94:1259:6,24 61:1 73:2 74:4,6,888:20 21:9	r -		,	, , , , , , , , , , , , , , , , , , ,	
131:23132:1,5236:4,1123:1326:1943:14,16,2121:1822:14133:9135:22material10:1627:744:2455:1926:1128:7,15137:2139:1613:2214:3meetings201:1856:9,1157:2128:2329:7145:13151:6,918:1028:2421:18221:859:6,2461:188:20156:23157:1,529:234:6,13221:862:11,1272:18minus211:24158:20,2234:1747:8,9memory94:1273:274:4,6,8212:9	-	0			·
133:9 135:22material 10:1627:744:24 55:1926:11 28:7,15137:2 139:1613:22 14:3meetings 201:1856:9,11 57:2128:23 29:7145:13 151:6,918:10 28:24memo 35:2259:6,24 61:188:20156:23 157:1,529:2 34:6,13221:862:11,12 72:18minus 211:24158:20,2234:17 47:8,9memory 94:1273:2 74:4,6,8212:9				· · ·	
137:2 139:1613:22 14:3meetings 201:1856:9,11 57:2128:23 29:7145:13 151:6,918:10 28:24memo 35:2259:6,24 61:188:20156:23 157:1,529:2 34:6,13221:862:11,12 72:18minus 211:24158:20,2234:17 47:8,9memory 94:1273:2 74:4,6,8212:9		· ·		· ·	
145:13 151:6,918:10 28:24memo 35:2259:6,24 61:188:20156:23 157:1,529:2 34:6,13221:862:11,12 72:18minus 211:24158:20,2234:17 47:8,9memory 94:1273:2 74:4,6,8212:9					,
156:23 157:1,529:2 34:6,13221:862:11,12 72:18minus 211:24158:20,2234:17 47:8,9memory 94:1273:2 74:4,6,8212:9					
158:20,22 34:17 47:8,9 memory 94:12 73:2 74:4,6,8 212:9					
	· · · · ·			·	
139.0,11,14 99.22,23 102.3 222.20 /4.11 /3.11,19 minute /.2,4	·	,	•		
	137.0,11,14	77.22,23 102.3	222.20	/4.11 / 3.11,19	mmute / .2,4

Page 256

r				2
155:10 216:6	49:8,16 50:12	152:16 184:5	MW1 83:24	102:17 127:24
216:13	100:8 196:23	186:18 210:5	MW12 134:14	143:7,9 224:11
minutes 127:21	197:12	motion 43:1	MW14 134:14	Nijman 2:12,13
miscellaneous	moment 148:14	72:23 74:15	MW15 134:14	3:4 5:3,23 6:1
22:20	161:21 174:12	119:16 189:15	MW17 65:9	6:12 7:6 8:7,15
mischaracteri	180:22 190:24	216:17	MW6 134:14	8:24 9:13,19
90:17 114:1	207:6 210:10	move 6:8 22:11	MW8 134:14	13:12 14:18
123:18 232:7	228:7 233:9	48:5 51:9	MWG13-15	18:16,19,22
mischaracteri	monitor 196:19	52:21 54:8	102:20	19:17,19 20:5
124:2 143:19	monitoring	60:11 61:10	MWG131524	23:18 24:9,18
144:18 203:11	55:13 56:6	65:1 66:15	46:8	28:11 30:14,15
230:7,13	63:19 64:18	68:4 70:9 71:8	MWG51034:2	30:18,19,21,23
miscommunic	65:21 66:7	73:1 92:2		32:10,17,19
113:19	71:2,14 77:10	93:15,16	<u> </u>	33:7 34:9,11
misreading	83:5,12,15	102:12 112:2	N 3:1 112:18	34:12 35:5
140:20	85:2 87:18	119:8,16,17,21	Nagle 171:5	36:17,18 37:12
missed 179:20	90:12,14 91:4	121:13 126:7	name 5:8 11:7	37:20,22 38:3
198:1	91:8,12,22	138:12 141:1	38:20 39:21,22	67:8 148:13
missing 26:6	92:18 134:13	147:20 150:4	56:2,3 76:19	175:14 206:3
63:11 113:16	136:8,9 138:8	151:24 161:14	183:10 195:11	207:6,8 208:14
misspeak 159:23	140:1 142:5,10	165:7,9 173:23	Nancy 117:17	209:23 210:8
228:18	142:19 143:7,9	176:23 181:23	121:18 126:11	214:10 228:6
misspoke 56:4	145:12 146:21	186:13 195:15	128:23	Ninth 1:13
93:6 100:11	147:1 149:1,5	198:18 210:16	near 90:14	NLET 220:6
121:2 193:19	149:8,10,14	212:22 215:24	nearby 85:14	non-attorneys
234:9	151:12,18	220:18 222:22	135:19 157:10	206:23 207:4
misspoken	153:3 159:6,9	moved 6:1 39:1	157:19 211:16	208:4
164:6	159:13,14,17	185:8 188:4	necessarily 46:3	nonresponsive
misstated	160:4,23 161:3	moves 38:16	122:23 125:13	48:5
129:14	161:6 163:6	117:3	187:6 231:16	north 10:11,12
misstatement	164:22 165:4	moving 117:7	necessary 26:20	11:17 17:6,8
151:21	170:7,10,12,15	139:23 165:17	27:8 187:15	29:23 30:1,10
misstates 24:18	170:21 172:22	muddering 53:7	need 39:8 67:10	122:7 177:19
43:9 89:6	172:24 178:12	53:14	146:5 175:17	178:7 179:2
90:16 233:18	178:14,17,23	multiple 48:17	176:2 181:11	219:14
mistrust 195:8	180:15 181:1	50:4 183:12	191:12 210:4,8	north-south
mix 99:14 100:2	182:15 183:3	MW-1 83:8,11	needed 85:14	81:6
mixed 27:22	184:1,2,4	142:18	needs 225:2	north/northw
mixture 48:14	187:4,16,19	MW-10 142:19	network 1:4	133:10
modeling 43:21	211:6,8,9	185:22	5:13 151:20	northeast 82:8
43:24 44:2,4,8	212:17,17	MW-11 83:11	neutral 220:13	82:20 90:22
44:9,24	214:5 228:16	185:21	never 17:10 55:20 133:23	116:1,17
modified 26:19	228:17 229:10	MW-6 163:8	134:5,6 162:18	133:10 138:1
27:7,19 142:12	230:24 231:7	MW-7 136:9	180:5 194:14	139:23 177:20
216:3	month 94:11	163:8	new 23:12 60:1	178:8
Mohawk 2:8	months 168:13	MW-9 87:1	60:18 68:10	northeast-sout
moist 48:14,23	morning 5:7 6:5	142:18	00.10 00.10	84:10
	•	•	•	•

Page 257

r				5
northern 111:23	114:12 120:23	44:19 51:13	206:12 208:8	20:6,13,17
northwest 79:1	130:20 139:11	52:23 54:10,13	213:1 216:8,18	23:20 24:11
79:5,13 80:3	140:18 149:18	55:20 56:21	220:20 222:24	25:16,19 27:3
81:3,13 91:11	170:23 173:8	59:18 61:5,6	224:1 227:15	30:13,16,19
96:1,3	191:1 222:20	62:16 63:9,22	229:18 230:7	32:7,17 33:2
Nos 54:24 61:7	numbers 87:4,9	64:13 65:5	231:24 232:17	34:9,22 35:2
66:21 68:5,16	87:17 88:7	66:18 68:13	233:18	36:16 37:9,18
70:15 72:1	113:20 141:11	70:11 72:22	objections 7:14	38:5,7,11,18
150:10 186:14	152:18 165:10	76:1 78:3,9	obscured 151:6	38:22,24 39:1
note 12:10 18:14	numerous 23:9	79:11 81:21	observation	39:4,10,13
26:13 31:19,24	NWG13-15	85:16 87:11	175:8	41:21 42:2,19
33:8,9,12,22	127:6	88:9,23 89:6	observations	43:11 44:17,20
62:16 68:22	NWG510 33:15	90:4,16 92:5	172:13,14,16	45:7 48:7 49:9
71:21 128:17		93:18 96:7,17	172:18 193:14	51:12,14,21
174:23	0	97:13 98:13	194:21,22,24	52:5,24 53:24
noted 63:23 65:5	O 148:6,10	101:10 103:11	197:10	54:3,6,11,14
68:13 115:14	149:13,14,18	104:3,5 107:9	obtain 85:10	55:22 56:24
125:11 146:4	149:20 150:5,8	107:16,18	95:14 135:18	57:11,16 58:22
189:17 222:5	236:2,2	108:2 110:16	157:9,14	59:19 61:3
222:10	o'clock 1:12	112:4 114:23	211:15 212:10	62:15 63:4,7
notes 9:7,10,10	72:5 182:9	117:12,18	obtained 158:14	63:14,22 64:14
18:4 19:10,14	210:5	119:10 120:1	obtaining	65:4,11 66:17
97:7 114:15,18	Oakland 2:19	121:16 123:13	158:21	66:19 67:5,10
114:19,20,21	object 44:12,17	123:16 124:1	obviously	67:14,17 68:12
115:3,8,11,12	57:3 58:19	125:19 126:9	118:23 211:24	70:12 71:11,20
118:8 119:11	60:14 62:24	128:24 130:1	occur 111:13	72:4,8,19,21
236:8	63:17 65:7	134:4 135:1	October 1:11	73:4,7,10,14
noteworthy	68:8 71:12	136:18,21	5:18 21:4,7	73:24 74:12,17
172:16	74:9 75:23	138:14 141:3	45:14 234:24	76:1,3,8,11
notice 1:13 8:10	102:15 113:14	143:19 144:1	235:1	78:4,11 79:15
13:1,2 21:3	123:17,17	144:18 145:5	offer 51:22	80:8,15,20
22:16 77:22	127:12 140:17	146:4 147:23	103:11 153:2	81:23 85:18
124:16 226:14	152:2 153:6	152:13 154:6	169:5,8,11,22	86:2 87:15
230:16	173:18,20,21	155:18 158:2,9	173:5	88:11,24 89:9
notices 132:18	175:14 183:8	159:20 161:9	offered 64:1,3	90:18 92:4,6
204:1 205:19	183:15 209:6	161:16 165:22	offering 169:19	93:19 96:8,18
206:15 207:21	229:5	167:1,21	173:11	97:15 101:12
225:9,13	objected 7:1	168:24 171:16	offhand 106:17	102:14,22
226:18 229:17	173:15	171:21 174:21	114:17 157:13	103:1,10 104:4
230:5	objecting 19:20	174:23 180:3	201:2 212:14	104:7 105:6,9
NRT 14:11	objection 6:2,10	182:3 188:11	officer 1:14 2:2	107:10,12,20
17:22 22:9	9:11 13:12	195:17 197:3	5:1,4,6,9 6:9	108:4 112:5,9
NSRP 173:17	19:17,19 20:5	197:15,17	6:15,19 7:3,11	112:13 113:22
number 15:16	23:18 24:9,18	198:21 200:9	7:16,19,21	114:5 115:1
15:22 25:17,21	32:6,16,24	200:22 202:12	8:19,22 9:6,9	117:9,13
35:24 72:18	34:8,19 36:15	203:11 204:11	9:18 13:4,7,15	119:14,20,24
76:17 109:5	37:8,17 43:9	204:20,23	15:18 19:21	120:2,5,23
		~	l	~ ~

Pac	re	258

				3
121:3,15,17	208:7 209:4,8	108:16,24	226:11 227:18	65:12 68:14
123:15,20	209:12,17	109:9 110:3,10	228:15 234:4	71:22 74:13
126:10,21	210:3,11,14,17	111:9,11 113:9	once 19:3,11	78:11 79:15
127:7,11,16,19	210:20 212:24	114:4,5,9	82:16 162:6	86:2 104:7
128:1,5,11,14	213:2 214:12	116:3,23 117:2	174:1 212:16	108:4 134:9
128:22 131:11	216:4,6,9,13	117:10,13	224:23	144:4 158:17
131:15 134:9	216:15,19	118:10 119:7	ones 63:9 134:13	174:22 176:4
135:4 136:20	217:3,5 220:21	119:15 120:12	134:21 159:19	202:14 203:16
136:23 137:4,8	223:1,13 224:3	120:16 121:1	operation 28:5	209:18
138:15 140:6	225:10 226:7	121:11 123:3	74:6	oversized 6:6
141:4 143:21	228:8,10 229:7	124:14 127:16	operational	owned 200:15
144:4,23	229:24 230:12	129:10 130:8	116:15	owner 40:6
145:16 146:3,9	230:17 232:6,9	130:24 131:8	opinion 85:24	
146:12,15,19	232:18,21	131:15,22	145:6	P
147:22,24	233:11,13,23	133:21 134:22	opinions 171:18	P 1:14 2:2 4:14
148:8,12,15	234:4,20,23	135:12 136:2	171:21 172:2,5	169:16 181:24
150:7 153:8,12	oh 7:8 15:13	136:11,16	172:11	182:4
153:14,16	18:18 29:17	137:4,9 139:8	opposed 85:21	package 152:10
154:2,5,23	okay 9:8 11:23	140:4,12	opposing 7:1 8:9	153:22 186:4
155:9,13,23	13:7 26:5 31:2	141:16 142:16	options 21:14	203:19
158:3,17	31:16,24 33:11	146:19 147:6	order 22:12	page 3:2 11:24
161:10,17,23	33:16 39:24	147:13,24	185:23 192:4	12:8 14:15,18
162:3 165:12	40:4,8,13,20	148:19 155:5	organic 196:23	15:14,15 18:13
165:17,21	41:9,13,18	156:9,21	197:12	18:17 20:12
166:1,4 167:3	44:20 45:3,17	159:17 160:1	organized 227:4	21:20 25:14,24
167:24 168:11	46:20 47:1,21	164:2,5,17,24	orient 175:23	26:11 28:9,14
169:4,9,13	49:23 50:3,9	165:6,12 166:4	177:5	28:21 34:2
172:3,6 174:5	50:15,17,24	169:12,24	oriented 176:1	35:10 45:17
174:21 176:3	51:2,6 52:17	170:19 171:3	orienting 178:4	46:7,8 52:16
176:19 177:7	53:11 55:9,18	172:15,21	original 103:7	53:11 76:17,18
177:10 179:12	56:8,14,19	173:3,13 178:6	113:13	76:22 81:1
181:5,7,11,14	58:13 59:14	180:8,21 181:2	originally	83:4,18,19
182:2,6,9	66:12 68:1	181:6,14 183:2	205:18	86:15,16 94:22
183:17,23	69:3 70:3	186:12 188:7	outlet 30:5	94:23 96:22
185:4,10	71:20 73:14	188:16 189:16	outline 29:14	98:2 105:18
186:19,23	75:6 76:3,22	192:21 193:7,9	outlines 29:14	108:8 109:5,6
187:23 188:3,7	78:1 81:2,7,11	193:16 194:3	176:11	109:15 110:10
188:11,16,20	82:13 83:18	195:2 196:12	outside 34:17	115:5,10 121:5
189:16 190:1	84:23 85:13	197:14 199:20	79:17 116:7,12	122:3,6 126:2
190:19 192:5,7	86:8,23 87:3	200:20 201:4	134:7	127:6 131:20
192:9 195:18	90:11 91:10,17	204:13 209:5,8	overall 53:19	131:20 132:5
197:4,16,21	91:17 92:13	209:11,21	overrule 61:5	132:21 134:13
198:20,22	93:12 94:21	210:6,17 211:5	185:6	134:22 136:1
200:11 202:14	95:5 97:1,4,10	212:15 214:7	overruled 13:16	140:4,13
203:15 204:12	99:24 102:9	219:12 220:3	32:8 33:2 43:2	141:13 151:5,7
204:22 205:3	104:12,16,22	220:16 221:19	48:7 57:11	155:7 156:20
206:3 207:1	105:3 107:4,20	223:23 225:16	59:19 63:23	159:24 160:9
	I		I	I

Page 259

				5
160:20 165:13	parsing 90:8	30:4,4	placed 82:21	57:1 58:23
170:23 172:5	231:10	performed 17:8	95:10 96:11	63:7 76:8 83:4
177:14,23	part 40:6 44:6	17:22 18:8	105:21 126:19	83:18 84:3
178:11,21	53:22 56:9	108:21,22	placement 78:7	86:15 87:1
181:3 185:16	61:13 65:19	109:12 224:15	81:19 90:15,21	94:22 96:22
185:21 186:17	66:1,4,8 70:2	224:18	105:23 115:21	105:16 107:21
196:15 201:8	71:15 74:10	Permeability	115:24	108:8 109:13
210:19 211:5	75:2 79:1,6	221:24	placing 19:3	109:15 113:3
211:10 212:15	82:4,12 85:4	permit 151:17	45:3 53:5	113:23 114:7
213:20 214:13	88:5 111:17,23	perpendicular	54:18 62:21	117:23 120:10
219:5,17 220:4	114:21 115:3	84:13	65:18 67:2	121:22 123:4
221:22	116:16,20,21	persaunt 60:20	68:20 70:20	123:20 124:14
pages 15:21	117:7 119:11	person 194:8	72:13 91:19	126:16 131:20
21:20,21 35:11	134:3 135:14	197:7,8,11	94:3 103:15	136:1,9 137:18
46:10 102:20	137:12 143:10	198:12	112:18 126:17	139:11 140:4
114:11,12	151:20 152:11	personnel 21:14	130:18 148:5	146:16 148:9
115:18 117:6,7	160:18 162:18	phase 73:24	150:14 154:12	148:23 156:12
128:20 140:12	164:18 176:15	175:11	166:9,11	156:20 159:24
162:17,22	185:23 200:17	photo 163:23	169:15 182:13	170:4,23
163:2 168:3,18	202:16 203:2,5	164:1,3,9,12	190:2,22	172:19 177:11
184:14 185:18	205:14 213:16	212:16	195:24 199:4	192:21 193:7,8
186:20 188:21	215:8 225:4	photograph	213:7 221:2	199:11,18
189:2,4,10,12	232:18	80:24 136:5	Plaines 85:8,9	210:19 214:16
192:1,2,23	particular 87:22	160:5 212:19	116:10	216:7 219:2,9
214:22	102:3 111:8	photos 79:20	Plaintiff 72:14	225:10 226:5
PAMELA 236:4	205:22 212:6	phrase 137:5,6	75:8 92:20	pleased 218:12
236:11	parties 214:6	physical 157:11	169:16 176:18	plot 86:21
paragraph	parts 222:14	157:16	Plaintiff's 20:11	212:19
13:10,18,20	patients 193:8	physically	45:4 51:10	plus 68:23
26:12,18 95:3	Patrick 163:5	211:17	79:24 91:21	211:24 212:9
116:4,5 124:5	197:7,18	picture 61:21	150:15 173:5	poind 177:17
124:6,17 220:5	213:22,23	175:18	189:17	point 14:24
221:23	214:21 215:6	pictures 121:5,6	plaintiffs 6:23	17:12 31:19
parameter	215:14,21	121:8 126:4	62:20 94:3	78:17 80:10
214:23 215:4	229:9 230:24	pieces 205:24	150:4	116:4 135:13
parameters	231:6,10	pile 81:4,9,14	plan 82:5	153:10,17
86:24 136:7	232:24	91:11 96:4	planning 127:20	172:20 173:4
160:7 212:20	pattern 99:8	177:21	plant 11:20 51:4	175:15 181:16
paraphrase	168:19	piles 106:11	218:1 219:1	187:9 193:21
142:8 146:2	Pause 148:16	pitch 133:24	please 7:24 11:1	224:21
218:10	207:7 216:14	place 75:8 91:8	14:9,14 21:18	pointing 79:17
paraphrased	PCB 1:6 5:16	91:15 127:23	21:19 23:21	180:12
142:11	penalized 62:13	138:19 141:9	34:10 38:19	points 14:16,17
paraphrasing	people 42:8	156:5 162:11	39:20 45:12	14:21,22 45:18
144:2,20	194:13,14	167:23 191:8	46:7 49:10	45:23 58:18
155:19	percent 22:6	213:12 217:8	50:15 52:9,15	86:6
parcel 232:19	26:20 27:8,19	221:6	54:3,4 55:23	Policy 1:3 2:3
	I	I	I	I

				rage 200
5:12	posted 84:5	93:12 152:23	206:5,14,21	60:4 97:24
Pollution 1:1 5:9	157:23	171:9,10	207:9,14,17,23	225:1
pond 11:3,17	potential 56:17	173:17	208:2,3,20,23	project 17:22,23
12:1,6,9,11,16	101:18 218:3	preparing 18:10	209:2 210:1	21:13 40:16,19
12:18 13:11,19	pound 30:1	97:12 157:4	229:19	43:17,18 44:3
14:12 15:8	178:22	171:8 211:14	privileged 56:23	95:4 105:17
16:1,9 17:2,16	powder 99:10	present 18:5	57:9,14,17	projects 224:14
18:1 19:4,16	100:5,18 102:3	65:20 78:2	225:24	224:14,15,16
22:20,23,24	power 51:3	128:8 132:23	privy 201:15,22	224:20
23:3,8 24:7	131:24	133:18 164:18	proactive	proof 103:12
26:14,15,23,24	Powerton 45:22	165:1 207:16	224:23	169:8,11
27:11,12,14,17	63:10 64:7,18	presented 123:5	probably 37:7	properly 193:1
27:21 28:4	130:22 136:4	172:12	41:16 44:10	202:8
29:16,16,20,21	137:20 138:23	presenting	84:17 90:9	property 79:2
29:22,23 30:2	139:13 141:21	191:2	96:13 133:4	82:12 116:21
30:3,7,10 34:7	149:1,5,8,11	presumably	149:19 194:14	119:4,5 138:4
34:14,16,18	149:15 150:16	204:8	problem 8:21	139:24 200:14
35:24,24 77:7	151:4 227:14	preventing	25:9 153:11,18	200:14,15
77:8,8 82:8	228:5	13:23	problems	proposal 22:16
90:22 116:1	Poz-O-Pac 10:8	previous 95:4	153:19	22:19 107:3,5
176:12,12	10:10,13,14,19	97:8,17,18	proceed 5:3	220:1
177:17 178:15	11:14,18 12:2	105:17 109:14	13:16 19:22	proposed 77:1
178:18 179:3	12:5,13,19,22	110:10 198:4	30:14,19 39:14	77:13,14 81:16
192:19 219:13	13:22 14:2,4	211:18 215:1,5	55:6 62:18	83:2 137:19,23
222:17,19,20	15:1,2,4 16:12	223:22 233:20	64:1 155:14	139:12,14
ponds 10:9	16:15,21 17:4	previously 10:1	177:11 185:11	160:10,18
13:21 14:5	23:17 24:2,7	10:3 63:12	223:14	162:7 199:21
19:12 28:2	24:16,19 32:3	73:18 82:3	proceeding 45:1	200:2 201:4
45:6 60:2	33:5,13 35:18	90:13,15 98:6	173:16	200:2 201:1
76:23 77:4,21	36:6,9 37:24	114:10 115:21	proceedings	202:3,10
78:7 82:2	222:12,17	157:6 184:8	1:11 235:3	provide 9:12
116:16 143:9	Prairie 1:3 5:13	230:3	236:6,7,9	25:11 44:5
172:23 176:14	prefer 159:18	previously-est	process 44:10	56:12,18 57:21
193:13,16	prejudices 71:17	160:15	215:12	58:2,8 72:15
211:2,7 218:20	prejudicial	primarily	proctor 26:19	103:5 119:19
pool 212:8,12	60:16,24 62:11	111:13,18	27:7,19	120:6 174:16
portion 79:14	153:9	principal 40:6	procure 161:2	186:17 188:8,9
81:8 96:1,11	preparation	printed 214:5	produced	188:21 193:14
116:15 186:8	115:4 206:16	printing 29:10	141:14 163:20	203:7 204:15
200:13	206:18	87:5,6	168:2,9 191:12	205:5,19
posited 19:11	prepare 84:16	prior 41:17 85:2	192:4	216:11 218:12
position 143:1	149:22 157:1	185:22 193:21	production	226:9,10
144:16 145:11	215:16,16	193:24 197:20	173:19 184:11	provided 6:5
145:12 146:1	220:1	229:10	184:12,15	13:2 57:23
204:9 207:2	prepared 11:5	privilege 56:22	professional	58:10 60:5
possible 87:9	11:11 69:13	56:22 132:15	17:21	74:4 142:12
146:13 197:1	84:17 85:20	205:10,16,21	program 59:23	174:15 205:15
				l

L.A. Court Reporters, L.L.C. 312-419-9292 Page 260

1				_
206:9 207:11	quarters 215:1,5	radius 30:2	21:13 23:9	recommendati
218:6 233:6	question 25:13	raise 39:10	25:5 27:23	21:11,12,16
234:16	29:7 35:4	153:4	29:4 37:6	recommended
provides 58:11	37:19 42:1	Randolph 1:13	64:10 230:18	209:19
providing 58:9	54:1,2,4 57:1,2	range 52:2	receive 56:16	recompact
proviso 216:2	57:16 104:6	117:4 188:14	156:17	26:21 27:9
pull 8:3 176:22	109:14 123:18	216:2	received 58:5	record 5:7,19
pump 20:23	129:2 130:14	reach 32:9 212:9	80:18 131:8,10	7:17,18,20,22
22:1 27:16	135:21 145:17	reached 32:11	139:8 156:19	13:14 29:13
31:8	145:18,22	read 6:4 31:4,24	179:17,24	30:16 38:9,10
pumped 26:22	146:6,8,14,17	33:9 53:22	225:9,17,20	38:12,13 39:21
27:10,21 31:13	155:2 158:24	54:4,5 56:24	226:15	45:13 52:9
purpose 95:12	159:20 179:20	57:2 105:3	receiving 27:2	53:22 54:5
95:14 101:20	181:13 183:8	146:13,17	27:13	55:9 59:16
106:3,5 110:24	185:13 198:1,4	222:4 233:21	Recess 128:4	61:13 62:16
120:21 124:18	204:17 205:14	234:5	182:11	65:6 66:6
125:2 217:23	207:3 209:6,24	reading 137:1	recognition	67:13,15,16,18
purposes 118:19	210:7,8,16	reads 102:3	190:16	68:13 72:6,7,9
pursuant 1:12	213:17 231:4	ready 5:4 30:14	recognize 45:10	73:15 75:17
60:17 69:22	232:2 234:2,3	30:18 55:5	52:7 53:8	76:5,9 80:11
206:17	questionable	69:1,2 91:24	55:10 64:5	80:13 101:1
pushed 19:2	168:15	94:7 148:18	65:23 67:20	104:11 105:5,7
192:2	questioned	169:17	69:4 70:24	105:8,10 106:4
put 21:24 62:20	26:23 27:11	realize 103:6	74:19 75:15	113:4 127:1,20
72:17 73:10	questions 9:3	really 28:1 33:6	92:11,14	127:20 128:3,6
75:6 94:2	16:24 22:11	35:8 152:20	103:17 113:1,5	132:8 138:6
107:2 126:19	30:12 39:5	168:20 208:14	113:7 114:14	139:21 146:3,8
146:1 167:10	64:10 73:21,22	reason 24:5 51:6	118:2 131:1	149:3,17
putting 58:18	94:20 103:23	56:14 61:13	138:24 141:17	152:19 156:12
	104:1 115:17	64:22 66:12	148:21 150:22	161:24 162:1,2
Q	127:13 146:10	68:1 70:6 71:5	154:15 156:10	162:4 164:6
QAQC 190:15	147:18,19	93:8 98:10	167:5 170:2	169:22 170:5
qualifiers 56:17	176:1 181:21	99:1 110:3	175:9 188:24	182:10 189:18
quality 224:24	187:11 188:4	140:22 146:14	190:7,8 191:4	191:2 192:6,8
quarter 62:8,9	203:5 208:17	149:24 152:20	191:14 196:4	192:10 199:12
92:21,24 93:4	209:2 223:10	167:18 183:6	199:9 213:15	206:4 210:12
93:5,7 149:2,6	234:19	185:14,17	213:16 215:13	210:13 217:2,4
149:9,11,15	quicker 50:21	194:5 195:8	217:13 221:10	217:6,16
150:20 170:8	quickly 139:2	197:6 215:19	226:13	223:14 228:6,9
170:11,13,16	160:20 217:15	reasonably	recognized	228:11 233:11
170:20 181:1	quite 158:24	175:18 177:1	114:10	233:12,14,22
228:19 229:11	176:12	reasoning 62:5	recollection	234:5,21,22
quarterly 60:7		Rebecca 3:3	104:24 105:2	records 234:14
92:18 148:24	<u> </u>	7:24 10:2 11:5	122:17 226:17	recoverable
149:4,7,10,14	R-a-c-e 52:5	11:8 35:21	recommend	61:16 187:9
150:19 170:7	Race 52:4	recall 10:17 17:5	19:8 118:21	rectangle 16:4,6
170:10,12,14	192:17	17:11 18:2	209:10,14	28:20 29:19,20
	I	I	l ·	

Page 262

1				2
179:1	104:20,23	167:14 201:2	107:6 108:10	76:4 87:9,18
rectangular	105:13	202:20 212:7	109:2 114:16	101:1 108:12
178:21 180:1	related 56:23	212:13 225:18	115:8,16	108:18 109:10
180:16	57:15 61:11	227:16	119:12 120:16	191:16
redacted 45:19	73:2,3 74:16	removal 18:10	120:21 123:10	representation
redactions 95:6	113:17 144:10	remove 17:15	123:22 124:17	84:14 86:5
105:18	147:3 173:23	19:8 190:15	125:12 126:5	113:16 184:17
Redirect 3:4	176:24	removed 128:20	129:23 130:5	representative
30:22	relates 63:18	renew 72:21,23	130:11,22	95:15
refer 30:7 76:5	relating 155:7	74:15	142:5 149:1,5	represented
214:7	162:14 208:4	repair 118:21	149:8,10,15	102:16 109:24
reference 15:24	relation 41:11	119:1 125:10	151:3 152:4	representing
213:24 214:19	114:20	repairs 113:21	170:7,10,13,15	91:22 94:5
referenced	relationship	125:6 129:17	172:14 182:22	112:20 130:21
94:12 163:17	41:5,6 101:8	reparation	185:19 190:11	138:21 141:10
214:1 215:8	101:11	115:13	194:1 213:19	150:18 156:6
referred 5:15	relative 145:12	repeat 15:16	214:1,3 215:8	162:13 173:8
130:5,10	158:19 202:20	35:3 123:16	215:14 217:17	196:1 199:6
187:22	205:22	148:8 198:2	217:23 218:6	213:8 217:10
referring 76:6	relied 12:4	rephrase 23:20	218:13 221:15	221:3,8 227:22
98:22 155:17	230:23 232:3	24:13 32:18	221:15 231:14	represents 58:4
189:10 215:6	232:15	34:10 36:17	231:18,20	108:14 139:17
222:11	reline 23:8 24:6	43:12 44:21	reported 19:24	154:13
refers 98:16	relined 12:11	55:22 58:23	21:6 236:6	request 8:13
reflect 142:24	22:23,24 23:3	81:22 87:14	reporter 7:23	17:14,17 20:11
reflected 63:20	193:17	88:24 89:10	39:11 146:16	20:16,21 21:11
reflects 143:5	relining 13:11	90:19 96:8	233:24 236:5	22:16,19 41:22
refresh 222:20	13:19 14:12	97:15 107:10	reporting 41:2	141:24 145:7
226:17	18:1 24:24	107:20 123:20	reports 55:7,18	207:12
regard 218:6,13	26:14	143:21 145:20	59:2,15,16	requested 41:4
229:16	relocated 101:24	146:18 172:7	64:11,12,17	144:21 147:15
regarding 14:11	102:7	179:13 229:6	65:8 69:12,15	193:12
45:15 52:10	relocation 52:12	232:9	69:21 70:7	requesting
64:11 75:20	rely 55:18 97:10	replaced 6:7	91:23 92:19	142:2
139:6 141:20	97:13 229:2	replacement	93:10,12 118:9	require 86:12
156:14 169:10	231:6,19,22	22:20	122:18 149:22	requirement
192:18 196:9	232:13 234:7	report 1:11	150:2 152:5,8	60:21
199:15 201:21	relying 11:21	46:17 51:7	152:9,15 154:1	requirements
217:19 221:17	remained 24:19	52:11 56:2,3	183:12,12	62:14 71:19
region 219:16	remaining 30:10	56:13 72:24	184:3 186:3	151:18
219:17	117:6 215:13	93:2 94:9,10	187:2,14,17,18	requires 44:4
regulations	remember 28:1	94:13,14,19	187:21 214:5	reread 146:8
23:10,12,14	57:20,23 59:10	95:13 97:12,23	215:17,20	233:22
rehabilitate	69:16 113:12	98:23 100:23	230:24 231:11	rerolling 27:18
146:5	114:17 115:20	102:17,18,19	233:5,17	residue 111:18
reissuance 52:10	129:21 130:7	102:21 103:6,8	234:11	respect 44:24
reissued 94:14	130:13 157:12	105:14 106:4,5	represent 70:22	143:2 206:6
Real Provide State Stat				

Page 263

r				2
207:8,18	84:20 91:23	river 85:8,9,10	43:10 55:17	53:17 83:8
208:23 218:19	97:17,20	86:9 116:10	59:22,23,23	85:5,8 88:4
respond 61:23	108:24 130:23	212:9,13	60:4,6,7 66:2,5	94:24 95:7
208:11 225:9	162:16 195:6	Rivers 1:3 5:13	66:8 70:2 71:4	99:7,7,10,24
225:13	215:11 229:13	road 2:8 81:5,9	71:15 85:3	100:3,6,13,14
Respondent 1:8	reviewed 84:19	81:10 179:2	95:14 106:21	100:18 105:18
2:16 4:18 6:17	109:1 157:3	roads 79:20	132:3 150:20	116:6 124:8
respondent's	184:11 231:10	role 40:4 171:8	151:2 152:11	137:12,14
10:24 14:10	reviewing	roller 26:21 27:9	160:3 166:19	164:18 166:15
responding	132:16 192:23	roughly 81:12	166:22 187:8	166:18,19
143:14 145:7	revised 94:8,10	106:23 178:21	214:24 218:21	181:17 196:22
response 8:10	94:14 102:23	180:12 200:1	219:10	196:24 200:5
13:2 63:2	102:24 103:3,5	row 47:17 48:12	sand 47:4,19	214:23 218:5
132:17 141:23	103:7,8,19	49:5 54:22	48:2,3,13,22	218:11 220:6
183:18,20	revived 103:2	Ruining 1:4	49:7,16 50:12	222:4,7 236:5
186:6 229:16	RFP 23:5,8	5:13	99:14 100:2,7	Schwartz 11:5,8
229:20,21	Rhodes 196:2,8	rule 60:1,3	100:14,19	35:21 36:11,22
230:4,15	199:14	rules 60:18	102:4 132:6,10	science 222:8
responses 229:3	Richard 3:5	run 43:8 49:21	135:7,9,14,22	scope 171:23
233:8	38:16 39:15,22	220:12,13	sand-size 100:13	201:13,19,22
rest 165:23	Rick 17:20,21	runoff 19:2	sands 133:3,20	203:3,9 204:5
188:21	rid 127:14	112:21,23	sandy 15:2	204:10,18
restate 118:14	right 5:21 7:13	118:4,4,5	16:17 100:8	205:7 206:10
135:3 233:20	12:23 21:1	120:13 123:6	133:8 135:8	207:8,19,23
resultant 95:9	23:1 38:3	127:5 129:3,8	sat 105:1 133:23	208:2 209:14
105:20	39:11 51:20	129:15	satisfaction	209:14 224:5
results 16:8 47:9	75:8 81:10	runs 81:5	203:18	score 73:2 127:6
55:3,13 56:15	85:7 93:14		satisfies 207:21	scratch 221:5
56:16 61:15,17	98:8 99:18	S	save 127:14	223:7
61:22 62:7,7	100:16 107:16	S 4:1 26:17	saw 10:7 69:24	screen 72:16
64:7,23 65:8	122:14,22,23	sake 123:14	101:16 129:18	screened 132:22
65:21 66:7	153:1 165:24	Sam 26:17	197:10 198:10	133:3,19
67:22 69:8	180:10 185:10	sames 100:2	saying 58:7	second 11:13
70:22 71:2	188:5 191:18	sample 15:10	134:17 204:4	14:24 15:1
87:18 89:3	196:14 215:3	35:6 96:14	205:15 214:10	16:14 31:3
92:21 170:21	216:15 222:6	101:15,16,19	says 11:13,13	33:8,9 36:8
181:1 182:19	223:24	101:21 102:4	12:1,10,13,18	47:17 48:12
190:5,9 212:17	rightmost	106:5 220:2	13:20 14:24	62:8,9 76:18
retain 200:17	177:24	sampled 152:11	16:11,14,17,20	76:19 91:23
retains 200:6	rill 125:7	187:4	19:1 20:22	93:5,6 95:19
retention 29:20	rilling 116:9	samples 28:10	26:2 27:6	105:5 124:5
29:22,22	118:12,17	46:5 56:6,8	28:24 30:2	149:2,6,15
reuse 79:5 95:17	120:18 123:11	62:3 64:18,20	32:14,20 33:4	151:7 170:15
106:8,9 111:3	123:23 124:10	64:21 69:9	33:9 35:18	172:20 181:16
218:3	125:4	79:2 82:11	37:14 47:2,3	204:3 217:2
reused 101:23	rip 117:6 166:1	95:15 222:7	47:18 48:13,21	218:5 220:4,5
review 29:5	166:3	sampling 41:2	49:6,15 50:11	222:4 228:19
	I	l		l

Page 264

				2
229:11	211:2,6 214:18	seven 164:21,22	17:2,3 37:11	six 36:2 45:18
section 31:5,7,18	219:15 220:6	soven 101.21,22 shade 136:13	61:18 187:12	115:9 125:8
171:18 172:9	221:19 222:2	shaped 160:14	198:9	146:10
172:17	228:1	share 134:2	similarly 68:7	six-inch 35:22
sections 176:9	seeing 79:19	shared 56:8	Simon 18:3	36:2,5,8
secure 159:1	125:2,9	Sharene 217:18	simply 57:5 58:4	sixth 116:23
see 13:10 14:15	seen 26:15 76:14	Shealey 217:18	58:8,17 71:18	size 6:3 100:14
14:21 15:5,22	84:18 164:2,3	sheet 116:8	74:9 85:17,20	106:1 202:15
15:22 16:1,3	164:15,16	118:11,16	145:7 146:1	203:1
23:11 26:1,13	167:8 173:22	120:17 123:10	175:23 198:16	sized 124:24
29:14,19 31:3	175:10 180:5	123:23 124:10	203:14	skipped 149:19
32:20 35:17	182:24 194:19	125:4	single 53:19	skipping 169:18
36:1,6,7,9,19	segments 16:5,6	shifted 102:1	127:5 163:2,14	slag 30:10 47:2,3
37:13,15,21	selected 85:21	111:6	168:6	47:5,5,11 49:8
42:17 45:18,21	101:16	shorthand 236:6	sir 13:6 96:24	50:11 53:17
46:13 47:1,18	senior 198:8	236:8	109:8 137:8	95:8 99:15,18
48:9,12,21	sent 131:9	shortly 96:13	183:20	99:22 100:6
49:5,14 50:3	141:18,23	106:20,22	sit 205:10	105:20 116:9
50:10,22 53:11	145:2 195:3	226:19,23	site 17:24 18:5	118:12,18
53:12,16 72:5	196:14 222:12	showed 102:2	22:9 31:8	120:19 123:12
76:19 77:7,10	222:15 225:13	showing 12:21	46:11,16,23	123:24 124:11
79:22 81:3	227:6,8,12	shown 176:13	47:14 50:7	197:13 221:4
83:8,23 84:2	228:12	shows 87:23	52:19 55:14	slash 77:12
85:4,7 87:4	sentence 13:20	159:6 182:21	73:22 74:6,24	slashed 137:22
88:2,4 94:24	143:4	side 31:9 35:16	75:4 78:2 79:6	139:16
95:7 99:6	separate 165:15	138:1 168:3	80:3 81:20	slight 218:9
102:1 105:16	187:13	sides 194:20	82:11 83:6,13	slightly 48:23
107:19 108:16	separated 28:21	sidewalk 195:7	90:12 96:2,12	49:8,16 50:12
116:6,11 122:2	September	Sierra 1:3 2:17	98:3 106:19	122:19 136:13
122:5,10 123:9	22:17 123:7	2:21 5:12	107:24 108:9	172:24 177:20
124:8,12,21	129:11 141:20	38:21	116:17,20	196:23 197:12
125:7,11,14	217:19	sift 154:2	130:22 131:24	219:16
136:12 137:11	sequential 189:2	signatory	132:23 156:8	slope 21:24
139:16 142:18	series 59:2 61:21	195:12	160:11 172:24	26:19,21 27:7
142:23 151:12	64:10 162:13	signed 8:13 21:1	174:3,16,18	27:9,17,18
159:19 164:17	182:14	60:9 171:6,7	176:15 200:21	slopes 31:9
164:21 165:1,4	serves 94:12	171:10	200:24 201:6	slow 27:3
166:14,15,18	services 221:17	silky 132:22	201:10 202:11	small 15:13,23
168:22 171:4	set 70:19 112:17	133:7	210:24 212:18	124:23 224:13
175:3,6 177:16	121:6 154:11	silt 49:7 50:12	218:8,18,19	224:14
177:19,24	159:16 189:7	132:9 133:13	219:10,12,21	smaller 202:19
178:4,6,12,21	sets 61:1	134:3 135:18	222:18	soil 43:6,19 45:6
180:9,12	settlement	silty 132:2	sites 46:2 50:22	45:15 46:5
181:16 182:9	175:13	133:22 134:12	108:13 174:20	soils 40:12,17
189:8 194:3	settling 45:6,16	134:21 196:22	231:2	somewhat 81:4
196:12 197:13	175:5 176:9	197:12	situation 86:14	sorry 8:7 14:18
198:13 200:5	178:1,9	similar 6:13,21	118:22 231:2	18:16 25:20
				•

Page 2	65
--------	----

r				2
31:6 35:3	173:1 180:13	88:14,15,21	75:11,22,24	73:1 74:15
38:20 46:9	southeast 81:8	89:14,18 90:1	92:19 105:19	109:13 121:12
47:23 50:16	84:9 219:13,15	137:16,17	105:24 130:22	126:17 147:7
51:19,20 55:9	southwest	221:9,14	136:4 137:20	160:22 165:7
56:3 58:7	178:18	standards 13:23	138:23 141:21	173:23 176:23
63:14 66:3	speak 180:1	87:13,20,21,23	149:2,5,9,11	strip 138:8
74:8 84:9	225:10	88:10,13 89:4	149:15 150:16	struggling 8:24
92:11 93:6	speaking 69:24	89:7,8 136:17	151:4 156:16	study 97:8,18
100:9,10	speal 5:6	170:10	156:23 162:14	101:20,21,22
101:15,19	specialize 40:11	standing 69:7	170:8,11,13,15	102:6 108:11
103:2 104:4	specialized	122:23 207:24	171:5 182:20	108:12 110:24
112:22 116:4	43:24	start 11:4 85:2	190:10 192:20	111:8
118:5,14	specializes 44:2	127:24 128:17	193:14 196:11	stuff 168:16,17
121:12,22	specific 86:22,24	171:1 224:9	199:8,17	style 189:13
122:3 123:15	136:6 160:7	225:16 228:15	217:11,21	styled 189:13
126:18 127:9	209:3,20 212:4	228:16,20	218:15 221:18	sub-bullet 32:1
128:13 129:14	230:22	231:3	228:2	33:10
131:3 134:16	specifically 70:1	started 9:20	stations 44:14	subheading
140:5 146:12	77:7 92:20	44:10 224:9,12	95:1,8 225:5,7	33:10
147:18 150:16	106:9 142:17	starting 5:2	228:22	subject 18:11
153:13,17	180:5 184:11	114:12 115:4	statute 220:15	44:14 205:16
154:3,4 157:4	specifics 57:8	starts 26:18	statutes 220:12	206:21 216:21
157:14 162:8	specified 220:11	214:13	stay 99:4 225:2	submission
164:4 166:10	speculation	state 39:20 65:4	staying 178:11	142:3
171:18 172:3	19:19,20 24:9	75:17 104:11	178:20 194:3	submit 6:7
173:7 179:20	28:1 32:6 33:1	118:14 139:21	steady 42:16	118:9 169:7
180:22 188:16	34:19,24 96:17	159:18 172:13	stemming	submittal 77:3
191:8 193:10	155:18 161:9	184:9 205:2	124:13	138:5 142:13
193:18 196:15	197:3 204:11	236:1	step 62:2	202:2
198:1 204:22	speculative	stated 34:3	sticking 16:3	submitted 8:13
209:10 213:9	107:9 108:2	44:18 89:3	162:6	13:1 142:3
214:12 216:4	speed 228:4	114:10 119:11	stood 26:3	subsequent
221:5 230:3,11	spoke 51:19	152:16 206:12	stop 127:24	151:16
232:20 234:9	spots 136:6	206:13	136:24 225:23	subsequently
sort 16:2 43:6	160:6	statement	storage 81:4,13	118:23 119:1
61:4 225:6	square 81:12	110:16 124:16	106:11 178:7	substantive
source 28:10	205:11	142:24 155:20	store 28:4	73:21
south 2:13 12:6	square-shaped	186:20 197:24	storm 82:5,5	subsurface
12:9,11,17	200:1	198:6	90:24	40:11,14 43:6
13:19 14:12	SS 236:2	statements	streamlining	231:15
15:8 16:1 17:9	stack 185:19	194:7	76:12	sufficient 42:20
17:10 18:1	stamp 107:15	states 31:4	Street 1:13 2:13	sufficiently
26:17,19 27:7	109:15 165:18	123:19 124:2	2:18	176:1
27:17,24 28:3	stamped 117:14	140:9	strength 222:1	suggest 32:23
28:4 29:17,17	166:6 188:12	stating 168:22	stretch 212:8	suggested
30:2,11 33:18	stand 5:22 128:8	station 21:13,17	strike 48:5	168:12 174:6
33:21 35:24	standard 87:10	45:22 56:7	53:12 61:10	suggests 134:21
			I	1

Page 266

Г				2
suitable 27:15	169:10	185:20,23	23:15	15:13 28:21
suite 2:4,14,19	survey 110:5	190:12 214:19	telephone	30:1 109:3
summaries	163:6	214:23 215:2,3	201:24	thank 6:10,19
53:10	surveyed 138:4	215:6,21 233:6	tell 43:18 69:12	7:19 12:17
summarized	sustain 208:8	tables 56:18	209:24	17:1,12 18:22
109:2 215:1,4	sustained 36:16	94:13,16	ten 127:21 211:8	20:18 25:19
summarizing	37:9 43:11	102:19 140:23	211:9 212:17	29:10 30:13,15
195:1	44:21 58:22	182:15,24	tend 60:19	30:20,21 31:14
summary 26:14	64:14 78:4	183:1,7 184:24	132:24	33:14 35:2,9
45:14 56:18	89:9 101:12	185:1 189:5	term 36:24 37:4	37:20 38:2,4,7
109:3,4 115:7	115:1 135:4	213:22 231:12	90:5,7 97:13	38:12,24 39:13
127:3 140:9,13	136:21 144:23	232:4 233:1,2	99:21 137:3	39:20 43:2,3
150:20 151:2	167:3,24	233:7,17 234:7	171:16,21	44:20 45:3
171:12 172:9	168:23 179:12	234:8,14	terminology	49:11 51:14,24
186:3 191:3	197:16,21	tag 186:4	36:21 37:1	52:15 54:4,6,7
192:18 214:17	204:12 209:6	take 14:9 15:11	78:22 82:23	54:11 55:2
217:17 218:13	224:3 232:6,21	20:10 21:17	120:20 174:17	60:10 62:16,18
superior 23:16	swear 7:24	62:15 63:23	174:19	63:8,24 64:21
supervision	39:11	71:21 72:4	terms 143:2	65:11 66:19
207:13	Swires 194:17	103:11 113:7	178:3 208:18	68:12 70:12
support 94:5	195:3,9	136:24 157:16	208:19 231:10	71:20 72:11
103:20,24	switch 24:7,16	162:16 166:5	Terry 32:1	75:13 76:3,11
217:11,20	25:10	169:1 182:6,8	test 55:3,8 56:10	80:20 81:23
sure 7:6 14:19	switching 24:2	185:16 190:20	187:19 220:10	86:15 87:15
15:17 18:18	200:16	211:20 218:22	220:13,14,16	90:11 91:18
25:18 26:5	sworn 10:1,4	taken 62:2	221:23	92:6 93:7,19
53:22 59:17	39:9,12,17	108:15 114:21	tested 48:18	102:11 112:5
71:21 80:8	236:4	115:3 128:4	testified 10:4	112:11 117:13
100:23 132:11	symbols 97:5,6	169:11 182:11	39:17 85:19	117:19 120:7
139:4 145:20	108:17 109:9	211:24 236:9	155:19 158:15	121:3,17 123:3
146:6,15	109:10	talk 57:5 58:13	179:11 183:22	126:2,10 128:2
161:23 166:24	system 132:14	223:16	198:3 230:3	128:15,16
175:7,24		talked 35:21	testify 135:2	130:18 131:17
182:23 190:11	T	37:6	168:20	132:4 133:12
197:14 203:17	T 2:13 4:1	talking 8:5,18	testifying 138:7	138:11,15
210:11 213:18	tab 10:24 14:10	36:1 40:21	testimony 24:18	140:19 147:24
214:2 217:3	15:18,20 18:21	44:13,13	43:9 61:10	148:12 149:16
233:23,24	20:14 21:19	136:23 153:12	73:1 74:16	150:7 154:9
234:13	22:15 25:15,23	155:3 158:9,10	89:7 143:20	155:13 159:6
surface 85:13	26:9 29:9	207:4 208:3	144:19 169:10	161:17 162:4
86:10,12 95:10	30:24 31:14	Tannery 69:6	173:23 176:24	162:11 169:13
105:21 135:19	35:9	target 108:17	203:12 230:8	170:17 171:7
157:9,19,19	table 102:17	targeting 102:6	230:13 232:8	172:7,19
158:14 211:15	140:9,13 163:5	111:7	232:10 233:18	177:10 178:11
211:21 212:3,5	166:13 167:6	team 44:6	testing 61:24	181:14,22
surrounding	168:6,7 182:18	225:22	221:9,15,16,17	182:10 189:21
14:2 45:6,16	182:19 185:18	technology	text 11:13 14:15	190:19 192:10
	I	I	I	I

Page	267
rage	201

1				2
193:7 195:18	78:7 94:12	122:24 124:23	52:15 69:18	201:9 220:5
198:17,22	151:18 214:5	131:13 136:10	78:16 81:2	twice 144:2
205:3 210:17	215:11	142:17 183:10	82:16 83:4,18	two 10:10 14:1
211:9 213:2	three-dimensi	topic 77:2,22	86:15 88:1	14:16 15:21
216:15 218:17	43:21,23 44:4	topographic	94:22 96:22	16:4 21:20
220:21 228:15	44:7,23	157:21	98:2 99:4	22:7,8,9 26:16
229:24 234:18	threshold 74:13	total 61:16	100:9,15	29:12 35:11
234:20 235:1	throw 205:12	187:9	105:16 108:8	45:18 46:10
Thanks 229:7	tied 86:11	totally 185:4	109:13,15	62:13 67:10
theirs 41:12	time 8:6 11:11	tract 200:6,18	110:7,10 114:7	71:18 85:11
thing 23:11 37:7	12:12 14:7	transcript 53:23	117:23 120:10	86:10 95:21
95:20 111:12	24:22 33:22	236:8	120:22 121:11	97:4,6 115:21
things 78:20	41:19 44:11	transcription	121:22 122:2,9	120:17 121:7
98:1 167:10	56:20 57:21	184:23 231:12	123:4 126:2,16	122:19 123:1,2
168:13,14	58:3 59:13	232:5	129:8 131:3,20	126:4 128:20
175:21,22	60:24 61:22	transmittal	132:4 136:1,9	133:4,11
think 24:4,12	69:2 76:5	141:18	137:18 139:11	141:13 163:7,8
42:19 57:17	78:23 107:2	transport	140:4 142:17	175:4 176:9
61:3 98:13	113:22 127:14	116:10	151:5 155:6	177:24 187:7
101:11 104:8	132:13 142:10	trapped 17:15	156:20 159:24	191:20 192:1,2
115:8 119:12	152:24 153:5,6	treat 43:1	160:9 163:22	192:23 208:4
135:2 136:20	158:21 161:4	trends 56:20	164:4 170:17	222:13
136:22 158:10	162:16 182:6,8	trouble 8:19	170:23 171:12	type 40:9 43:5
171:22 175:19	195:2 212:3,6	truck 27:1,13	172:19 176:18	43:18 47:7,7
182:7 185:7	221:11 224:11	true 18:10	177:13,23	79:17 111:7
197:6,23 198:3	224:13 225:19	100:24 145:4	192:14,21	152:7
205:23 206:1	228:23,24	145:23 168:21	193:7,8 195:11	types 97:5 152:8
207:2,4 208:1	timeframes	236:8	196:18 199:18	typical 189:13
210:15 213:23	225:18	truth 144:16	201:8 210:19	224:17
213:24 223:8	title 137:21	try 79:9 80:24	211:5,10	typically 152:4,8
223:11 233:9	titled 78:21	101:17 153:1	212:15 214:16	153:22
thinking 106:13	190:8 192:18	168:13 174:12	214:21 219:2,5	typo 26:4
third 5:18 15:3	titles 69:15	191:15 202:8	220:3 226:5,24	U
16:17 18:24	today 5:17 63:5	209:5	227:21	
26:12 31:18	153:20 223:6	trying 80:15	turning 14:14	unclear 145:16
32:3,14,21	234:24	85:20,23,24	15:15 21:18	underlying
33:5,12 49:5	told 144:2,14	89:21 125:17	22:14 30:24	116:9 118:18
50:10 170:8	146:2 152:14	127:13 145:10	31:14 34:2	120:19 123:11
196:21	tomorrow	158:13 175:23	35:9 47:21	123:24 124:11
thought 12:5	119:19 186:18	177:7 202:21	48:9 49:2	125:23 133:8
20:17 113:20	208:9 209:7,22	203:8 209:3	53:11 69:17	133:19 underneath
131:15 232:10	210:2,4,5	230:23 232:15	76:17,22 79:24	18:21 19:1
thoughts 193:15	234:24	turn 11:24 12:23	91:10 105:12	21:7 25:15
205:20	top 16:5 32:15	13:9 46:7,9,20	111:9 122:9	26:9 29:9 32:1
three 13:21 14:3	35:17 46:22	47:13,17 48:19	134:22 160:20	underscore
14:16,21,22	73:6 87:1	48:19 49:21,22	164:24 180:21	102:20
16:4 21:21	100:19 109:6	50:8,15,24	180:23 181:3	102.20

Page 268

				_
understand 5:23	unit 28:6 122:21	229:5 232:11	waive 206:4	107:22 108:3,7
11:10 40:20	132:6,9,10,22	vagueness 58:19	waiving 206:13	112:2,11 114:2
49:18 58:15	133:2,7,8,14	validation 157:9	walk 82:6	114:6 115:2
85:21 142:8	133:17,18,22	157:12,13	116:17,20	117:3,11,22
144:7 145:11	133:24 134:3	validator 234:10	walk-over 82:4	119:8,14,15,20
145:17 153:6	134:12,18,21	234:13	walked 195:7	119:21 120:9
155:21 158:7	134:24 135:9,9	value 211:23	wandering	120:24 121:2,4
160:21,24	135:18	values 88:5	167:15	121:13,21
163:21 168:6	units 132:2	136:12,16,16	Wannier 2:18	123:21 124:4
169:3 174:5	133:4 134:2	233:5 234:12	3:6 38:16,20	125:15,19,20
177:6 179:15	updated 144:15	variety 40:10,24	38:21,22,23,23	126:7,15,24
184:16,20	updating 143:23	various 210:23	39:8,19 41:19	127:11,12,18
186:16 202:8	upgrade 202:24	212:20	43:3,4,12,13	127:23 128:10
202:21 207:2	upgraded 142:5	verbatim 137:1	44:16,22 45:8	128:10,11,13
223:19 230:23	upgrading	verify 66:10	45:9 48:5,8	128:16 129:1
231:1,7 232:13	142:10	version 29:11	49:11,13 51:18	130:3 131:17
232:15	upper 164:17	52:14 94:8	52:1,6,21 53:4	131:19 134:6
understanding	use 26:24 27:12	103:19 128:18	53:21 54:2,7	134:15 135:3,5
14:5,8 15:7	37:1 56:11,17	versus 5:14 37:4	54:18 55:2,4	136:22 137:1,6
31:10 47:6	62:6 69:7	37:5 57:21	56:1 57:7 58:1	137:9,10
48:17 62:6	72:22 73:17	58:3 59:13	59:1 60:11	138:12,18
79:7 82:17	74:9,14 75:7	212:12	61:12 62:19	140:7,8,19,21
86:13 97:23	78:22 80:22	vertical 84:2	63:2,6 64:3,4	141:1,8 143:22
116:22 132:14	99:21 120:20	viewed 229:14	64:15,16 65:1	144:13 145:1
142:14 145:21	122:21,21	violation 8:10	65:17 66:15	145:10 146:7
147:6,14 152:4	136:18 173:20	13:1,2 77:22	67:1,7,13,19	146:11,13,18
160:16 176:8	173:21 174:7	90:3,5,7	68:4,19 70:9	146:20 147:18
193:20 202:6	174:13 175:15	132:17 204:1	70:18 71:8	148:4,10,20
202:23 204:7	177:4 183:15	205:18 206:14	72:9,11,12,20	149:21 150:4
219:20 231:15	220:16	207:20 225:9	73:6,9,12,16	150:13 151:24
231:19	useful 8:18	225:13 226:14	74:2,14,18	152:6,22 154:9
understandings	uses 44:1 137:2	226:18 229:17	76:4,10,13	154:10,21
62:1	183:19	230:5,16	78:5,10,15	155:1,12,15,21
understood 45:8	usually 79:23	violations 62:10	79:13 80:6,9	156:4 158:6,13
46:7 57:18	114:17 118:9	90:9	80:14,17,21	158:23 161:14
59:14 60:10	186:2 189:5	virtually 61:2	81:22 82:1	161:21 162:2,5
73:12 76:10		visit 22:7,8	85:18,19 86:7	163:18 165:7
77:4 78:24		visited 22:9	87:14,16 89:1	165:14,20,24
83:1 94:17	v- 1:6	VNs 204:1	89:2,11,12	166:3,8 167:4
113:15 116:19	vague 24:9	225:19,20	90:6,20 92:10	168:1 169:3,7
118:24 125:16	44:19 59:18	voice 45:7 49:9	93:15 94:1	169:21 170:1
161:5 163:19	64:13 78:3,9	voir 3:7 42:2,4	96:9,21 97:16	171:17,22
198:16 201:21	81:21 88:23		98:15 102:12	172:8 173:4,11
203:20 215:9	96:7 97:14		102:22,24	173:14 174:1
225:6 231:22	107:9 130:1	Wacker 2:4	103:5,13,14	174:11 175:1
unfortunately	145:5 158:2,11	wait 23:7 181:4	104:6,10	175:23 176:5
151:6	205:1 224:1	221:4	105:11 107:11	176:20 177:4,9
	1	1	1	

				- 5
177:12 179:11	Wannier's 42:24	83:20 84:5,11	228:16 229:10	75:8 85:23
179:14,22,23	145:18	84:12,15,20	230:24 231:1,6	91:17 103:15
180:7 181:8,9	want 8:3 30:17	85:1,2,11 86:5	231:17	105:6,9 107:14
181:13,15,23	58:15 63:8	86:10,12,13,18	waterer 27:1	117:7 119:19
182:8,12	89:9 90:18	86:21 87:12,18	watering 27:18	120:7 126:17
183:21,24	107:17 112:9	87:20,20,21,23	187:2	126:20,21
185:2,9,12	121:23 125:24	88:9,18 89:19	waterways	127:20,24
186:6,7,13	160:21 165:22	89:24 90:1,24	85:14 157:10	128:2,5,6
187:1,3 188:1	172:6 173:14	91:22 92:18	211:16	138:19 145:10
188:6,9,14,17	175:7 208:15	131:24 132:1,5	Waukegan	150:14,18
188:22 189:9	228:18	132:12,24	45:21 46:10,17	152:23 161:23
189:15,21	wanted 10:21	133:1 134:20	53:7 65:21	162:3,11
190:16,20,21	11:4 15:11	135:10,13,19	67:23 69:6	165:15 168:9
192:11 193:19	16:24 26:5	135:22 136:4	156:8,16,23	169:15,19
193:23 195:15	59:9 69:14	136:17 137:15	159:7,10	174:1 180:1
195:22 197:17	125:18 129:7	138:22 139:7	160:11 162:9	182:13 190:22
197:22 198:3	143:13 198:16	139:12,15,19	162:14 166:13	191:12 192:9
198:15,18	202:24	142:21 143:1	167:16 170:7	194:24 196:1
199:3 200:10	wants 171:23	143:16 144:7,9	170:11,13,15	206:13 208:3
200:19,23	warning 19:3	145:13 146:23	176:15 182:16	210:1,3,15
202:13 203:6	wash 116:8	147:2 148:24	182:20 183:3	211:21 213:7
203:14 204:2	118:11,16	149:8,10,14	190:4,9 191:3	216:9 217:5
204:13,14	120:17 123:10	150:20 151:2	192:20 193:14	221:2,8 223:8
205:2,4 206:7	123:23 124:10	153:3 156:22	195:23 196:11	223:10 228:10
206:22 208:1	125:4	157:5,17,19,20	227:13 228:2	233:13,24
208:13 209:4,5	wasn't 11:10	158:11,14,16	228:21	234:23,24
209:9,13,21	21:15 26:5	158:20,21	way 26:17 47:7	we've 5:19 42:15
210:6,10,14,15	32:13 158:24	160:3 161:1,2	137:5,5,7	90:12 107:13
210:18,21,22	202:15,16	161:6,13 162:8	138:3 168:10	168:7,24
212:22 213:6	203:4,5 205:14	166:13,15,19	174:9 187:6	180:17
214:4,15 215:9	208:22	166:22,23	189:5 191:11	Webster 2:18
215:10,24	water 5:17	167:15,19	198:9 231:16	week 153:19
216:5,11,17	17:15 19:1,9	170:7,10,12,15	ways 26:16	weeks 22:7,8,9
217:1,7,12	20:23 21:6	170:21 180:8,9	86:11 187:8	107:2
220:18 221:1	22:1,5 26:20	180:24 182:15	we'll 9:20 12:23	weight 62:17
222:22 223:5	26:22,24 27:8	182:19 183:3	50:7,24 107:18	185:3
223:15 224:4	27:10,12,13,14	184:3 187:8,21	210:16 216:11	welcome 6:12
225:11 226:4,9	27:17,20,21	190:4,9 199:7	we're 5:1,2,4,7	wells 53:7 60:23
226:12 227:18	28:6 30:5 31:9	199:16,21	5:22 7:18,21	63:1,9,19,19
227:20 228:14	31:11 33:18	200:2 201:5	8:2,5,18 9:2	63:20 64:18
229:6,8,23	40:12,18 41:2	203:24 204:18	16:5 30:6,16	65:21 66:1,4,7
230:1,9,11,19	43:24 44:2,4	204:21,24	38:11,12 39:4	68:10,11 69:10
230:20 231:5	55:12,13 56:5	205:8 206:11	40:3,20 43:18	69:11,16 71:14
232:1,7,12,19	61:21 64:17	211:11,14,21	51:18 52:13	83:5,12 90:14
232:20,22	71:2 75:10,21	212:3,5 213:21	61:13 67:14,17	91:4,8,12,15
233:9,15,19,22	77:1,10 81:17	214:4 215:7	72:5,8,14	132:11,20
234:2,6,19	82:5,5 83:2,12	227:1,22	73:21,23 75:7	133:2,13 134:7

L.A. Court Reporters, L.L.C. 312-419-9292 Page 269

Page 270

				2
134:8,11,17,19	213:10	wonder 7:13	196:2	1
134:23 135:6,7	withdrawing	wondering 26:3	WS 46:23	<u>1</u> 12:6 15:15
135:8,9,12	192:12	39:2 152:3	WS-DT-1 46:14	17:8,9,10
142:10,18,19	withdrawn 76:2	198:4	WS-GT-1 46:23	29:17,17,23
143:1,8,16	112:14 127:17	word 88:2 99:15	WSGT3 47:14	30:1,2,10,10
144:8 146:22	witness 3:2 9:13	105:1,1,3,4	WSGT4 48:10	77:7 87:20,21
147:1 151:13	9:14 10:1,3	130:1	WSGT5 49:3	88:10,14,15
151:15,18,19	19:18 20:8	wording 143:4		89:8,13,18
151:20,22	23:19 25:20	143:11,11	X	90:1 136:17
159:7,9,10,13	32:9,16,24	words 53:23	X 3:1 4:1	137:15 141:13
159:15,16,22	33:4 34:8,20	82:20 90:8		143:8 144:8
160:23 161:3,6	35:3 36:15	99:12	<u> </u>	145:12 146:22
163:6,7,8	37:8,11,17,21	work 22:21	yard 200:16	147:1 159:15
164:22 165:4	38:17 39:2,6	23:13 39:24	Yeah 118:24	160:4 164:22
167:15 172:22	39:12,16 41:20	40:1,13,14,14	year 24:24 42:15	165:4 185:18
178:12 180:16	42:18 43:1	40:16,22,24	42:23 129:20	189:2 218:23
181:18 182:15	49:12 52:4	41:1 42:8 43:5	158:8,12 159:5	219:13
184:2 187:2,4	54:19 57:4,4	43:8,14,16	years 23:5,7	1:20 128:2
187:19 189:6	57:19 59:21	56:9,21 95:4	107:1	1:25 128:2,6
211:6,8,9	72:10 73:20,22	105:17 107:5	yesterday 5:5	10 2:13 3:4
212:17 228:17	75:24 78:13	168:13 191:13	6:1,23 9:5 10:7	143:8 144:8
went 21:10	79:16 80:7	195:6 207:11	18:15 22:5	145:12 146:22
105:1 132:11	85:17 86:4	207:15,19	24:5 31:8 36:3	145:12 140:22
136:20 156:18	88:13 96:20	208:24 223:17	37:6	10:00 38:14
233:4	101:13 104:9	223:19,23		10.00 1:13
west 1:13 122:7	108:6 119:10	224:5,7,12,24	$\frac{\mathbf{Z}}{140.10}$	10042:8
122:12 133:8	121:1 131:14	224:24 225:4	zero 149:18	1004 2.8 107 4:13
176:12,14	134:11 135:2	225:16 230:4	zone 75:21 77:2	11 8:22 14:10
177:16 178:15	144:6 148:19	work-product	77:11 83:2	15:20 26:10
178:15,18,22	153:21 156:1	206:5 207:9,13	87:12,23 88:10	31:14 35:9
178:22,22	158:5,19	208:23	88:18 89:20	68:10 71:14
179:3 192:19	161:12 169:24	worked 17:22	90:1 139:7,13	83:9,24 226:15
193:13,16	173:22 175:20	working 41:13	139:15,19	11:00 72:5
western 160:18	175:24 177:3,5	41:15 42:21	162:8 199:7,16	11:02 72:9
wet 79:1	177:6 180:4	84:18 157:1	199:22,24	112 4:8
white 14:16,22	186:22 187:11	194:18 223:21	200:3 201:5	11233 141:11
81:12 87:5	187:21 188:17	225:8,12	203:23,24	11235 141:11
160:14	188:19,23	worried 107:14	204:18,21,24	11236 142:17
wide 125:1	191:13 193:20	wouldn't 21:12	205:8 227:2,23	155:8
willing 190:17	197:6 198:7	27:24	0	11237 141:11
Wilmette 2:9	200:13 202:15	written 8:8	0 14:24	116B 9:6
wind 106:10	203:17 207:17	12:12 15:9	05 172:23	117 4:9
withdraw	209:19 214:8,9	26:16 171:4	07 172:24	11B 8:8,23 9:15
112:10,12	214:13 221:9	194:21 201:23	084-001624	13:1,5
119:16 126:20	223:12 226:1	wrote 36:12,13	236:12	11D 8:4
126:22,23	226:11 227:16	147:8 154:13	09 115:6	11th 141:20
154:21 190:17	228:12 229:20	154:17 194:8		
	I	I	I	I

Page 271

r				1498 271
226:23	165:10,15,18	74:1	26:17 27:24	123:7 129:13
12 10:14,16,19	166:6	194 104:13	30:4 35:24	129:14,16,18
14:2 15:1,2	14525 163:4	1944 122:3	73:24 77:8	132:3 161:4
16:20,22 29:9	14526 163:5	19442 117:4,10	87:12 88:10	221:16 223:24
71:14 101:14	14529 164:7,24	122:4	92:21,24	224:5 226:15
107:1 151:13	14530 164:4,12	19444 117:4,11	102:17 138:8	226:21,23
151:20	14531 163:1	19445 117:14	140:1 153:3	230:5
12-12-2012	165:10,16,20	19448 115:4	175:11 182:19	2013 23:3 26:13
132:6	14532 165:23	19451 114:14	185:18,23	75:18 92:21
12-inch 14:2	148 4:12	19452 114:14	214:19,23	127:2,4,8,10
12 men 11.2 120 4:9	14A 101:2,4,9,9	19455 114:12	215:2,3,6	131:12,14
120 4.9 121 4:10	102:9 111:22	119:17,22	2-6-3 228:1	139:5 141:20
12129 193:3	15 100:24	19456 122:10	2-0-5 226.1 2-north 21:24	149:2 156:14
12129 193:3 12130 193:3	111:16 124:24	19457 119:17,22	2-south 22:1,1	170:8 196:9
12130 175.5 1255 147:21	151:19,22	1946 104:17	20 74:1 84:7	199:15 227:9
125 3 147.21 126 4:10	196:9	19470 124:6	20-foot 30:2	228:13,19
12822 191:1	15-minute 72:5	19473 126:3	200 51:23	229:4,11
12827 191:8,10	15-11111111 150 4:12	19473 120:5 19483 127:6	200 31.23 2000 41:16	2014 170:11,20
12828 193:2	150 4:12 154 4:13 165:10	19487 104:22	42:23	181:1 182:22
12829 193:4,5	15424 163:10	19489 102:20	2001 41:16	181:11 182:22
195:11	15425 163:13	19409 102:20 19490 102:20	42:23 223:20	2015 92:24
12830 192:22	15429 163:23	19495 96:22,23	224:8	149:6 217:19
193:5	164:7,9	19499 98:2 99:5	2002 224:13	2016 62:9 93:2
12831 192:3,22	15430 164:4	194 <i>99</i> 98.2 99.3 195 4:15	2002 224.15 2003 131:6,16	149:9 170:13
192:24	15431 163:13	1954 .15 19511 100:10	224:13	20165 150:21
12832 192:24	166:6	19512 100:10	2004 97:9	20103 130.21 2017 1:12 93:4
194:3	15764 140:13	19513 100:10	108:23	149:11,15
12th 132:2	15765 140:15	19576 104:17,19	2005 45:15	151:3 170:16
13 15:18 45:14	15766 140:16,18	109:7	98:21,24	202 4:3 52:2,22
101:8,15	15A 101:6 102:9	19577 104:22,23	106:24 109:12	52:24 53:2
110:14,20	111:22	109:7	192:18	203 4:4 53:6
151:18,22	16 68:10 143:7	19585 108:8	2006 44:11	54:9,15,16
13-15 1:6 5:16	151:13 159:16	111:10	2008 22:17,21	204G 4:4 54:24
73:2	160:23 161:7	19591 109:16	23:24 24:23	60:12,15 61:5
13.2 105:24	1600 2:4	19604 110:11	2009 21:4,8	61:7
1300 2:19	17 63:1,19 74:1	19605 110:8	22:23,24 24:24	209G 4:4 54:24
138 4:11	18 63:1,19 65:9	1961 164:13	25:3,10 113:8	60:13,15 61:6
13832 193:8	74:1 139:5	1974 163:23	130:16	61:8
13A 102:7	156:14 199:15	164:1,9	201 4:3 45:4	20D 72:14,18,19
110:13,23	228:2,3,13	198 4:15	51:11,15,16,21	72:20,22 73:3
13th 226:16	18-foot 53:19,20	190 4.13 19D 173:7	2010 118:6,7	2101 2:18
14 68:10 100:24	18-1001 <i>33</i> .19,20 182 4:14	14 226:6	130:14 182:21	210H 4:5 62:22
101:1,9 111:16	182 4:14 189 4:14	171 220.0	183:11	63:11 65:2,12
151:19	1874 .14 18th 75:18 131:6	2	2011 120:14	65:14
141 4:11	131:12,14	2 12:9,11 14:12	129:12,22	2111 63:11
14522 165:13	227:8 229:4	15:8 16:1	129.12,22	211 05.11 212 4:16 63:11
14524 163:1,3	19 63:1,19 65:9	22:19,23 23:3	2012 8:11 84:7	212 4.10 05.11 213 63:11
1 10 2 1 10 3 .1, 3	••••••••	,		-10 0 <i>J</i> .11

Page 272

r				1090 111
214 63:12	24290 50:16	254 4:11 138:20	188:12 189:17	105:12 112:3,6
215 63:12	24292 50:15	140:6,7 141:2	189:19	112:7,14
215H 4:5 62:22	24300 51:1,2	141:4,6 147:11	272 190:3	2S 23:8 26:14,15
65:3,13,15	24302 50:24	255 4:12 141:10	273 190:23	26:17 29:16,16
216 4:16	24387 52:3	148:1,2 154:20	191:22 192:13	
216I 4:5 65:19	24388 52:16	155:4,12	274 4:15 191:9	3
66:16,20,21	24392 52:3	256 4:12 150:5,8	191:15,24	3 12:18 13:19
21st 127:7,10	243M 4:8 91:21	150:10	192:4,14	17:2 18:1
220 4:17	92:21 93:17,20	2560 148:7,11	195:16,19,20	22:20,24 28:3
220I 4:5 65:19	93:22	149:3,4	275 4:15 196:1	28:4,6 33:18
66:16,20,22	244M 92:24	2570 149:4	198:19,23	33:21 77:8
221 169:22,23	245M 93:2	2580 149:7	199:1	87:12 88:10
222J 67:3 68:5	246 93:4	2590 149:9	276 4:16 199:5	102:17 122:10
223 4:17	246M 91:21	25th 1:12 5:18	210:20,21	122:11 124:22
228 68:15	93:17,20	234:24	212:23 213:3,4	131:16 138:8
228J 67:4 68:6	247 94:4 102:13	26 180:21	219:3,4 227:1	140:2 210:19
229 68:23	104:14 112:10	260 4:12 150:6,9	277 213:8,10	3:00 182:9
229K 68:22	112:12,14	150:11	278 216:1,2	30 3:4
70:10	247.5 103:9	2600 148:7	278Q 4:16	302 8:5,12 17:18
22nd 21:7	2473 46:10	2600 148:11	213:14,19	20:11,15
221:16	248 114:8	149:12	216:20,21,22	308 6:24 7:6,7
231K 69:19	121:23 122:2	261 4:13 150:15	281Q 4:16	7:11
23339 72:18	248N 4:9 112:19	154:6,7 166:6	213:14 216:2	30th 21:4
73:3	115:19 117:5	262 154:12,22	216:20,23	312-251-4610
2345 46:14	117:17,18,20	263 4:13 156:6	28350 7:10	2:15
235 68:23	249 117:24	161:15,18,19	284 4:17 217:9	312-282-9119
235.5 4:6 68:23	119:9 121:24	162:7 176:22	220:19,22,23	2:9
70:13,16	130:6	177:8,13	285 221:3	31st 26:13
235.5K 68:22	249.5M 119:18	264 162:13	286 4:17 221:7	192:17
70:4,10	249N 4:9 119:18	165:11,18	222:23 223:2,3	34 216:5
236 L 4:7 70:21	119:23 120:3	265 166:12	287 223:7	34271 14:15,19
71:10,23 72:1	122:9 128:19	169:10	28850 20:12	31:15
23rd 5:19	128:23	266 169:18	29 45:22 50:20	34281 26:11
24 15:2,3 92:7	24th 5:19 115:6	267 182:1	52:13,20 55:15	33:15
151:3	25 124:24 148:6	267P 169:17	55:16 59:21	34311 28:9
241L 4:7 70:21	250N 4:10	170:6	60:23 74:21,24	34317 28:14,21
71:10,24 72:2	120:11 121:14	268 170:18	75:4,11,23,24	34:3
242 4:7 49:21	121:18,19	268P 170:9	76:6,9,23	34426 15:15,17
75:9 80:1,16	251N 4:10 123:4	180:23 181:9	86:19 92:19	35:11,11
92:3,8 227:22	123:5 126:8,11	269P 170:11	94:6 95:1,8	34428 35:13
24275 46:20	126:13 129:9	26th 235:1	96:11 103:20	36:5 37:14
24277 47:13	252 126:22	27 8:11 113:8	105:14,19,24	35 88:5 137:12
24278 47:21	252N 112:19	270 182:1	112:21,23	36 11:17 12:2,13
48:9	253 4:11 130:19	270P 169:17	116:8 119:5	12:19 15:3
24279 49:2	131:12,14	170:14	120:14 129:4	3600 2:14
24282 49:22	138:13,16	271 4:14 152:1	227:13,23	365 2:4
24284 50:8	228:5	182:14 186:15	293 4:8 103:16	39 3:6
	1	I	1	I

				1490 270
3987-85 220:7	45331 171:2	60 42:16	721 132:5	9458 120:7
3rd 53:16	45649 53:12	60601 2:5	134:22	9459 120:7
3S 13:11 14:6	458 175:3	60603 2:14	722 136:1	94612 2:19
	186:16	60691 2:9	723 130:20	
4	45816 173:6,8	608 156:20	137:18	
4 28:6 87:13	175:3	160:20 177:14	727 139:11	
88:10	49565 217:10	178:12,21	749 140:5,5,6	
4-1 52:11	49569 219:17	609 159:24	766 140:18,20	
4130.068 122:7	49666 220:3	160:2	·	
122:12		61 4:4	8	
415-877-5646	5	610 160:9	8 12:9 18:21	
2:20	5 11:2,12 30:4	620 88:5 137:13	20:14 21:19	
42 3:7 35:23	178:12,14	625 199:18	22:17 25:15,23	
425 13:10	180:16 181:18	643 201:8 219:5	30:24 36:1,1	
43849 186:14,20	50 42:16	644 211:5	53:7 65:21	
188:15,16	500 11:1 35:22	645 211:10	66:1,4,7,11	
43856 186:21	35:23 36:12,14	646 212:15	159:16,17	
43857 185:16	36:20	65 4:5	160:23 161:6	
186:15,23	506 22:15	66 4:5	184:2,4 187:17	
188:17 189:18	507 17:19 18:14	6668 76:17	187:19 189:6	
43858 185:22	18:20 21:19	667 75:12	217:19	
186:9,11	25:14,24	6670 216:3,4	80248 25:24	
188:13	51 4:3	6671 214:17	8248 25:15,18	
43859 185:21	510 14:10 15:21	67 216:4	8250 18:13,18	
189:18	26:10 28:8,9	670 76:22 80:2	8254 21:21 31:1	
44145 120:22	35:10 37:2	6734 213:20	856 189:11	
4415 121:11	511 4:19 6:2,8	216:3	857 186:22	
44155 120:24	6:16,17 29:8	68 4:6	189:11	
446 114:13	53 4:3	687 81:1	858 186:16	
117:14	54 4:4	688 83:4 90:11	8806.419 122:7	
447 114:13	55 121:1	689 83:18	122:12	
117:14	576 109:5	690 86:16		
448 114:13	577 109:6		9	
117:14	579 211:24	7	9 53:7,14 65:22	
449 114:13	212:9	7 11:24 22:15	66:1,4,7,11	
117:15	582.5 30:3	159:15 160:4	75:22 143:8	
45 181:3 191:10	58589 151:5	164:22 165:4	144:8 145:12	
450 114:13	596 196:15	178:12,17	146:22 147:1	
117:15	597 196:18	180:16 181:18	184:2,4 185:18	
451 117:15	598 196:16	194:3	187:17,19	
452 117:15		7:00 210:5	189:2,6 0 = = = = = 185:22	
45328 181:10	$\frac{6}{(4.10,14.24)}$	70 4:6 22:6	9-page 185:23	
45329 170:24	6 4:19 14:24	711 75:12	9:00 1:12 235:1	
171:12,13	15:1 16:11,14	712 130:20	9:05 5:20	
172:10	21:24 35:18	72 4:7	90 26:20 27:8,19	
45330 171:14,15	178:23 196:19	720 131:21	91 4:7	
172:5,19 181:4	6-6 11:14	132:21 134:13	93 4:8	
	I	I	I	l

Page 273