Transcript of the Testimony of

BRENT POOLER

November 21, 2022

AUGUST J. LEVERT, JR. FAMILY, LLC, ET AL v. BP AMERICA PRODUCTION COMPANY

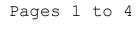


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1	2
18TH JUDICIAL DISTRICT COURT	1 APPEARANCES:
FOR THE PARISH OF ST. MARY	2 ATTORNEYS REPRESENTING THE PLAINTIFF, AUGUST J.
STATE OF LOUISIANA	3 LEVERT, JR. FAMILY, LLC:
	4
AUGUST J. LEVERT, JR. NO. 78953	5 JONES SWANSON HUDDELL & DASCHBACH
FAMILY, LLC, ET AL	6 Pan American Life Center
DIVISION "A"	7 601 Poydras Street, Suite 2655
VERSUS	8 New Orleans, Louisiana 70130
124000	9 Phone: 504.523.2500 Fax: 504.523.2508
BP AMERICA PRODUCTION	10 (BY: Kevin E. Huddell, Esquire)
COMPANY	11 E-mail: khuddell@jonesswanson.com
COMPLET	12 (BY: John Arnold, Esquire)
	13 E-mail: Jarnold@jonesswanson.com
VIDEOCONFERANCE AND VIDEOTAPED DEPOSITION	14
OF BRENT POOLER, 1015 Landrich Lane, Broussard,	15 ATTORNEYS REPRESENTING THE DEFENDANT, BP AMERICA
Louisiana 70518, taken at LISKOW & LEWIS, 822	16 PRODUCTION COMPANY:
HARDING STREET, LAFAYETTE, LOUISIANA 70503, in	17
the above-entitled cause on the 21st of	18 LISKOW & LEWIS
November, 2022 commencing at 9:08 a.m.	19 822 Harding Street
1407emoor, 2022 commencing at 7.00 a.m.	20 Lafayette, Louisiana 70503
	21 Phone: 337.267.2319 [Fax: 337.267.2399
REPORTED BY:CHERIE' E. WHITE	22 (BY: John S. Troutman, Esquire)
CCR (LA), CSR (TX), CSR (MS), RPR	23 E-mail: jtroutman@liskow.com
CERTIFIED COURT REPORTER	24 (BY: George Arceneaux, Esquire)
CERTIFIED COOKT REFORTER	25 E-mail: garceneaux@liskow.com
3	4
1 ALSO PRESENT:	1 EXAMINATION INDEX
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3 John Frazier	3 BY: PAGE
4 Court Van Tassell, Esq. (Via Zoom)	4
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1	STIPULATION	1 THE VIDEOGRAPHER:
2		2 This is the videotaped deposition of
3	IT IS HEREBY STIPULATED AND AGREED by and	3 Brent Pooler. This deposition is being
4	between counsel for the parties hereto that the	4 held at 822 Harding Street, Lafayette
5	deposition of the aforementioned witness is	5 Louisiana on November 21st, 2022, at
6	hereby being taken under the Louisiana Code of	6 9:08 a.m. taken in the matter of August J.
7	Civil Procedure, Article 1421, et seq., for all	7 Levert, Jr. Family, et al versus BP
8	purposes, in accordance with law;	8 America Production Company in the 18th
9	That the formalities of reading and signing	9 Judicial District Court for the Parish of
10	are specifically NOT waived;	
11		10 Iberville, State of Louisiana, No. 78958,
	That the formalities of sealing,	11 Division A.
12	certification and filing are specifically waived;	12 I am Shawn Royston, the
13	That all objections, save those as to form	13 videographer, appearing for Depo-Vue. The
14	of the question and the responsiveness of the	14 court reporter is Cherie' White appearing
15	answer, are hereby reserved until such time as	15 for Amerson White. All counsel present
16	this deposition, or any part thereof, may be used	16 will be indicated on the stenographic
17	or sought to be used in evidence.	17 record.
18		18 BRENT POOLER,
19	* * *	19 1015 LANDRICH LANE IN BROUSSARD, LOUISIANA 70518,
2.0		20 after having first been duly sworn by the
21	CHERIE E. WHITE, Certified Court Reporter,	21 above-mentioned Court Reporter did testify as
22	in and for the Parish of Orleans, State of	22 follows:
23	Louisiana, officiated in administering the oath.	23 EXAMINATION BY MR. HUDDELL:
24	-	24 Q. Good morning, Mr. Pooler. How are
25		25 you today?
		20 you today.
	7	8
1		
1	A. I'm well. Thank you. How are you?	depositions and testimonies, can you tell me in
2	A. I'm well. Thank you. How are you?Q. Good. Good. Could you please state	depositions and testimonies, can you tell me in which of in which of these cases, if any,
2 3	A. I'm well. Thank you. How are you? Q. Good. Good. Could you please state your full name for the record?	depositions and testimonies, can you tell me in which of in which of these cases, if any, you've been involved with limited admission?
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	9		10
1	Q. There was there was a limited	1	consulted about whether BP should make a limited
2	admission, right?	2	admission?
3	A. That's correct. Thank you for	3	MR. TROUTMAN:
4	reminding me on that. We made a limited	4	Object to the form.
5	admission, but I understand that it may have	5	THE WITNESS:
6	settled otherwise shortly after the limited	6	No. I did not make the decision
7	admission was filed.	7	MR. HUDDELL:
8	Q. Okay. Can you think of any others?	8	Okay.
9	A. If I forgot Guidry, probably not.	9	THE WITNESS:
10	Q. Okay. All right.	10	on whether or not to file a
11		11	limited admission.
12		12	BY MR. HUDDELL:
	on my list, we filed the limited admission, but		
13	it it didn't go through the hearing process.	13	Q. Well, were you were you asked
14	Q. Right. And I don't think you you	14	about it before that happened?
15	didn't give a deposition in that case.	15	A. Not that I recall in the decision
16	MR. HUDDELL:	16	process, no.
17	I marked as Exhibit 3 the limited	17	Q. Okay. Were you consulted with
18	admission for this case.	18	respect to the scope of the limited admission?
19	(Exhibit 3 marked and tendered.)	19	MR. TROUTMAN:
20	BY MR. HUDDELL:	20	Object to the form.
21	Q. Have you seen that before?	21	THE WITNESS:
22	A. Yes, sir.	22	Yes. Within the context of our
23	Q. Okay. Did did you have any	23	report, yes.
24	involvement in any aspect of the limited	24	BY MR. HUDDELL:
25	admission? For example, were you were you	25	Q. Do you know when it would have been
	11		12
1		1	
1 2	that you would have been consulted about the		A. Oh, okay. I thought you were
2	that you would have been consulted about the scope of your limited admission?	2	A. Oh, okay. I thought you were referring to our report based on what you were
2	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se,		A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry.
2 3 4	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental	2 3 4	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just
2 3 4 5	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't	2 3 4 5	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we
2 3 4 5 6	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't recall being involved in discussions of the	2 3 4 5 6	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we have marked as Exhibit 3, this is the BP
2 3 4 5 6 7	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't recall being involved in discussions of the limited admission itself.	2 3 4 5 6 7	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we have marked as Exhibit 3, this is the BP Production Company's Limited Admission of
2 3 4 5 6 7 8	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't recall being involved in discussions of the limited admission itself. Q. As far as the the as far as	2 3 4 5 6 7 8	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we have marked as Exhibit 3, this is the BP Production Company's Limited Admission of Environmental Damage Pursuant to LARS 30:29,
2 3 4 5 6 7 8 9	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't recall being involved in discussions of the limited admission itself. Q. As far as the the as far as the areas for which the limited admission would	2 3 4 5 6 7 8 9	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we have marked as Exhibit 3, this is the BP Production Company's Limited Admission of Environmental Damage Pursuant to LARS 30:29, right?
2 3 4 5 6 7 8 9	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't recall being involved in discussions of the limited admission itself. Q. As far as the the as far as the areas for which the limited admission would apply, were you consulted about that?	2 3 4 5 6 7 8 9	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we have marked as Exhibit 3, this is the BP Production Company's Limited Admission of Environmental Damage Pursuant to LARS 30:29, right? A. That's correct.
2 3 4 5 6 7 8 9 10	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't recall being involved in discussions of the limited admission itself. Q. As far as the the as far as the areas for which the limited admission would apply, were you consulted about that? MR. TROUTMAN:	2 3 4 5 6 7 8 9 10 11	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we have marked as Exhibit 3, this is the BP Production Company's Limited Admission of Environmental Damage Pursuant to LARS 30:29, right? A. That's correct. Q. And it includes an exhibit A, which
2 3 4 5 6 7 8 9 10 11	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't recall being involved in discussions of the limited admission itself. Q. As far as the the as far as the areas for which the limited admission would apply, were you consulted about that? MR. TROUTMAN: Object to the form.	2 3 4 5 6 7 8 9 10 11	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we have marked as Exhibit 3, this is the BP Production Company's Limited Admission of Environmental Damage Pursuant to LARS 30:29, right? A. That's correct. Q. And it includes an exhibit A, which shows the locations of the three limited
2 3 4 5 6 7 8 9 10 11 12	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't recall being involved in discussions of the limited admission itself. Q. As far as the the as far as the areas for which the limited admission would apply, were you consulted about that? MR. TROUTMAN: Object to the form. THE WITNESS:	2 3 4 5 6 7 8 9 10 11 12 13	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we have marked as Exhibit 3, this is the BP Production Company's Limited Admission of Environmental Damage Pursuant to LARS 30:29, right? A. That's correct. Q. And it includes an exhibit A, which shows the locations of the three limited admission areas, right?
2 3 4 5 6 7 8 9 10 11 12 13 14	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't recall being involved in discussions of the limited admission itself. Q. As far as the the as far as the areas for which the limited admission would apply, were you consulted about that? MR. TROUTMAN: Object to the form. THE WITNESS: We discussed the areas and the	2 3 4 5 6 7 8 9 10 11 12 13	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we have marked as Exhibit 3, this is the BP Production Company's Limited Admission of Environmental Damage Pursuant to LARS 30:29, right? A. That's correct. Q. And it includes an exhibit A, which shows the locations of the three limited admission areas, right? A. It does, yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't recall being involved in discussions of the limited admission itself. Q. As far as the the as far as the areas for which the limited admission would apply, were you consulted about that? MR. TROUTMAN: Object to the form. THE WITNESS: We discussed the areas and the environmental conditions, but as it	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we have marked as Exhibit 3, this is the BP Production Company's Limited Admission of Environmental Damage Pursuant to LARS 30:29, right? A. That's correct. Q. And it includes an exhibit A, which shows the locations of the three limited admission areas, right? A. It does, yes. Q. Okay. And and then it also on
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't recall being involved in discussions of the limited admission itself. Q. As far as the the as far as the areas for which the limited admission would apply, were you consulted about that? MR. TROUTMAN: Object to the form. THE WITNESS: We discussed the areas and the environmental conditions, but as it pertains to our report, yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we have marked as Exhibit 3, this is the BP Production Company's Limited Admission of Environmental Damage Pursuant to LARS 30:29, right? A. That's correct. Q. And it includes an exhibit A, which shows the locations of the three limited admission areas, right? A. It does, yes. Q. Okay. And and then it also on the following pages, it has an a memorandum in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't recall being involved in discussions of the limited admission itself. Q. As far as the the as far as the areas for which the limited admission would apply, were you consulted about that? MR. TROUTMAN: Object to the form. THE WITNESS: We discussed the areas and the environmental conditions, but as it pertains to our report, yes. BY MR. HUDDELL:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we have marked as Exhibit 3, this is the BP Production Company's Limited Admission of Environmental Damage Pursuant to LARS 30:29, right? A. That's correct. Q. And it includes an exhibit A, which shows the locations of the three limited admission areas, right? A. It does, yes. Q. Okay. And and then it also on the following pages, it has an a memorandum in support of of the motion for referral to the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't recall being involved in discussions of the limited admission itself. Q. As far as the the as far as the areas for which the limited admission would apply, were you consulted about that? MR. TROUTMAN: Object to the form. THE WITNESS: We discussed the areas and the environmental conditions, but as it pertains to our report, yes. BY MR. HUDDELL: Q. Okay. If you can turn to page 4 of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we have marked as Exhibit 3, this is the BP Production Company's Limited Admission of Environmental Damage Pursuant to LARS 30:29, right? A. That's correct. Q. And it includes an exhibit A, which shows the locations of the three limited admission areas, right? A. It does, yes. Q. Okay. And and then it also on the following pages, it has an a memorandum in support of of the motion for referral to the Department of Natural Resources; is that right?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't recall being involved in discussions of the limited admission itself. Q. As far as the the as far as the areas for which the limited admission would apply, were you consulted about that? MR. TROUTMAN: Object to the form. THE WITNESS: We discussed the areas and the environmental conditions, but as it pertains to our report, yes. BY MR. HUDDELL: Q. Okay. If you can turn to page 4 of the limited admission and paragraph 17. Do you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we have marked as Exhibit 3, this is the BP Production Company's Limited Admission of Environmental Damage Pursuant to LARS 30:29, right? A. That's correct. Q. And it includes an exhibit A, which shows the locations of the three limited admission areas, right? A. It does, yes. Q. Okay. And and then it also on the following pages, it has an a memorandum in support of of the motion for referral to the Department of Natural Resources; is that right? A. It appears so, yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't recall being involved in discussions of the limited admission itself. Q. As far as the the as far as the areas for which the limited admission would apply, were you consulted about that? MR. TROUTMAN: Object to the form. THE WITNESS: We discussed the areas and the environmental conditions, but as it pertains to our report, yes. BY MR. HUDDELL: Q. Okay. If you can turn to page 4 of the limited admission and paragraph 17. Do you see that?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we have marked as Exhibit 3, this is the BP Production Company's Limited Admission of Environmental Damage Pursuant to LARS 30:29, right? A. That's correct. Q. And it includes an exhibit A, which shows the locations of the three limited admission areas, right? A. It does, yes. Q. Okay. And and then it also on the following pages, it has an a memorandum in support of of the motion for referral to the Department of Natural Resources; is that right? A. It appears so, yes. Q. And and then the final three
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't recall being involved in discussions of the limited admission itself. Q. As far as the the as far as the areas for which the limited admission would apply, were you consulted about that? MR. TROUTMAN: Object to the form. THE WITNESS: We discussed the areas and the environmental conditions, but as it pertains to our report, yes. BY MR. HUDDELL: Q. Okay. If you can turn to page 4 of the limited admission and paragraph 17. Do you see that? A. I don't have a copy of it in front	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we have marked as Exhibit 3, this is the BP Production Company's Limited Admission of Environmental Damage Pursuant to LARS 30:29, right? A. That's correct. Q. And it includes an exhibit A, which shows the locations of the three limited admission areas, right? A. It does, yes. Q. Okay. And and then it also on the following pages, it has an a memorandum in support of of the motion for referral to the Department of Natural Resources; is that right? A. It appears so, yes. Q. And and then the final three pages are a proposed order with respect to the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't recall being involved in discussions of the limited admission itself. Q. As far as the the as far as the areas for which the limited admission would apply, were you consulted about that? MR. TROUTMAN: Object to the form. THE WITNESS: We discussed the areas and the environmental conditions, but as it pertains to our report, yes. BY MR. HUDDELL: Q. Okay. If you can turn to page 4 of the limited admission and paragraph 17. Do you see that? A. I don't have a copy of it in front of me.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we have marked as Exhibit 3, this is the BP Production Company's Limited Admission of Environmental Damage Pursuant to LARS 30:29, right? A. That's correct. Q. And it includes an exhibit A, which shows the locations of the three limited admission areas, right? A. It does, yes. Q. Okay. And and then it also on the following pages, it has an a memorandum in support of of the motion for referral to the Department of Natural Resources; is that right? A. It appears so, yes. Q. And and then the final three pages are a proposed order with respect to the limited admission, right?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't recall being involved in discussions of the limited admission itself. Q. As far as the the as far as the areas for which the limited admission would apply, were you consulted about that? MR. TROUTMAN: Object to the form. THE WITNESS: We discussed the areas and the environmental conditions, but as it pertains to our report, yes. BY MR. HUDDELL: Q. Okay. If you can turn to page 4 of the limited admission and paragraph 17. Do you see that? A. I don't have a copy of it in front of me. Q. Oh. Yeah. It	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we have marked as Exhibit 3, this is the BP Production Company's Limited Admission of Environmental Damage Pursuant to LARS 30:29, right? A. That's correct. Q. And it includes an exhibit A, which shows the locations of the three limited admission areas, right? A. It does, yes. Q. Okay. And and then it also on the following pages, it has an a memorandum in support of of the motion for referral to the Department of Natural Resources; is that right? A. It appears so, yes. Q. And and then the final three pages are a proposed order with respect to the limited admission, right? A. It appears to be so, yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	that you would have been consulted about the scope of your limited admission? A. Depending on your question per se, but in general we discussed the environmental conditions of the limited admission. I don't recall being involved in discussions of the limited admission itself. Q. As far as the the as far as the areas for which the limited admission would apply, were you consulted about that? MR. TROUTMAN: Object to the form. THE WITNESS: We discussed the areas and the environmental conditions, but as it pertains to our report, yes. BY MR. HUDDELL: Q. Okay. If you can turn to page 4 of the limited admission and paragraph 17. Do you see that? A. I don't have a copy of it in front of me.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Oh, okay. I thought you were referring to our report based on what you were doing. Sorry. Q. No. Well, and and just just so we are clear, this this document that we have marked as Exhibit 3, this is the BP Production Company's Limited Admission of Environmental Damage Pursuant to LARS 30:29, right? A. That's correct. Q. And it includes an exhibit A, which shows the locations of the three limited admission areas, right? A. It does, yes. Q. Okay. And and then it also on the following pages, it has an a memorandum in support of of the motion for referral to the Department of Natural Resources; is that right? A. It appears so, yes. Q. And and then the final three pages are a proposed order with respect to the limited admission, right?

	13		14
1	A. Not that I recall, no.	1	Object to the form.
2	Q. Okay.	2	THE WITNESS:
3	A. I mean, obviously the the figure	3	That's my understanding.
4	itself is an HET figure from our report that was	4	MR. HUDDELL:
5	used in this, but I don't recall reviewing this	5	Okay. And what was your objection?
6	document before being filed.	6	MR. TROUTMAN:
7	Q. Okay. All right. So then let's	7	Calls for a legal conclusion.
8	let's go to page 4.	8	BY MR. HUDDELL:
9	A. (Witness complied).	9	Q. Well, is it your understanding that
10	Q. And it has paragraph 17 at the top.	10	BP has made a limited admission of responsibility
11	Do you see that?	11	for environmental damage in limited admission
12	A. Yes.	12	Areas 1, 2 and 3?
13	Q. Okay. Paragraph 17 says "Pursuant	13	MR. TROUTMAN:
14	to the provisions of Louisiana Code of Civil	14	Object to the form.
15	Procedure Article 1563 and Act 312, BP makes a	15	THE WITNESS:
16	limited admission of responsibility for	16	This is what the document says, yes.
17	environmental damage in limited admission Areas	17	BY MR. HUDDELL:
18	1, 2 and 3 depicted on the attached map, exhibit	18	Q. Okay. And but that's also something
19	A, and described as follows, right?	19	aside from this document, you're aware that
20	A. That's correct.	20	that BP has made a limited admission for
21	Q. Okay. And it's your understanding	21	responsibility for environmental damage in
22	that BP has indeed made a limited admission of	22	limited admission Areas 1, 2 and 3, right?
23	responsibility for environmental damage in	23	MR. TROUTMAN:
24	limited admission Areas 1, 2 and 3, right?	24	Object to the form.
25	MR. TROUTMAN:	25	THE WITNESS:
	15		16
1	Again, that's my understanding, yes.	1	right?
1 2	Again, that's my understanding, yes. BY MR. HUDDELL:	2	right? MR. TROUTMAN:
	Again, that's my understanding, yes. BY MR. HUDDELL: Q. Okay. And that understanding is not	2 3	right? MR. TROUTMAN: Object to the form.
2 3 4	Again, that's my understanding, yes. BY MR. HUDDELL: Q. Okay. And that understanding is not just based on this legal document, but it's based	2 3 4	right? MR. TROUTMAN: Object to the form. THE WITNESS:
2 3 4 5	Again, that's my understanding, yes. BY MR. HUDDELL: Q. Okay. And that understanding is not just based on this legal document, but it's based on the the discussions with counsel, right?	2 3 4 5	right? MR. TROUTMAN: Object to the form. THE WITNESS: I from an environmental aspect
2 3 4 5 6	Again, that's my understanding, yes. BY MR. HUDDELL: Q. Okay. And that understanding is not just based on this legal document, but it's based on the the discussions with counsel, right? MR. TROUTMAN:	2 3 4 5 6	right? MR. TROUTMAN: Object to the form. THE WITNESS: I from an environmental aspect and professional, I don't agree in the
2 3 4 5 6 7	Again, that's my understanding, yes. BY MR. HUDDELL: Q. Okay. And that understanding is not just based on this legal document, but it's based on the the discussions with counsel, right? MR. TROUTMAN: Object to the form.	2 3 4 5 6 7	right? MR. TROUTMAN: Object to the form. THE WITNESS: I from an environmental aspect and professional, I don't agree in the sense that there is environmental damage
2 3 4 5 6 7 8	Again, that's my understanding, yes. BY MR. HUDDELL: Q. Okay. And that understanding is not just based on this legal document, but it's based on the the discussions with counsel, right? MR. TROUTMAN: Object to the form. THE WITNESS:	2 3 4 5 6 7 8	right? MR. TROUTMAN: Object to the form. THE WITNESS: I from an environmental aspect and professional, I don't agree in the sense that there is environmental damage on the property with the constituents
2 3 4 5 6 7 8 9	Again, that's my understanding, yes. BY MR. HUDDELL: Q. Okay. And that understanding is not just based on this legal document, but it's based on the the discussions with counsel, right? MR. TROUTMAN: Object to the form. THE WITNESS: I understand that they have made a	2 3 4 5 6 7 8 9	right? MR. TROUTMAN: Object to the form. THE WITNESS: I from an environmental aspect and professional, I don't agree in the sense that there is environmental damage on the property with the constituents that we have determined to be present on
2 3 4 5 6 7 8 9	Again, that's my understanding, yes. BY MR. HUDDELL: Q. Okay. And that understanding is not just based on this legal document, but it's based on the the discussions with counsel, right? MR. TROUTMAN: Object to the form. THE WITNESS: I understand that they have made a limited admission. As far as a legal	2 3 4 5 6 7 8 9	right? MR. TROUTMAN: Object to the form. THE WITNESS: I from an environmental aspect and professional, I don't agree in the sense that there is environmental damage on the property with the constituents that we have determined to be present on site do not meet the definition that I
2 3 4 5 6 7 8 9 10	Again, that's my understanding, yes. BY MR. HUDDELL: Q. Okay. And that understanding is not just based on this legal document, but it's based on the the discussions with counsel, right? MR. TROUTMAN: Object to the form. THE WITNESS: I understand that they have made a limited admission. As far as a legal conclusion as to whether there's	2 3 4 5 6 7 8 9 10	right? MR. TROUTMAN: Object to the form. THE WITNESS: I from an environmental aspect and professional, I don't agree in the sense that there is environmental damage on the property with the constituents that we have determined to be present on site do not meet the definition that I would as an environmental scientist have
2 3 4 5 6 7 8 9 10 11	Again, that's my understanding, yes. BY MR. HUDDELL: Q. Okay. And that understanding is not just based on this legal document, but it's based on the the discussions with counsel, right? MR. TROUTMAN: Object to the form. THE WITNESS: I understand that they have made a limited admission. As far as a legal conclusion as to whether there's environmental damage or contamination or	2 3 4 5 6 7 8 9 10 11	right? MR. TROUTMAN: Object to the form. THE WITNESS: I from an environmental aspect and professional, I don't agree in the sense that there is environmental damage on the property with the constituents that we have determined to be present on site do not meet the definition that I would as an environmental scientist have as environmental damage.
2 3 4 5 6 7 8 9 10 11 12 13	Again, that's my understanding, yes. BY MR. HUDDELL: Q. Okay. And that understanding is not just based on this legal document, but it's based on the the discussions with counsel, right? MR. TROUTMAN: Object to the form. THE WITNESS: I understand that they have made a limited admission. As far as a legal conclusion as to whether there's environmental damage or contamination or otherwise and the definition of	2 3 4 5 6 7 8 9 10 11 12 13	right? MR. TROUTMAN: Object to the form. THE WITNESS: I from an environmental aspect and professional, I don't agree in the sense that there is environmental damage on the property with the constituents that we have determined to be present on site do not meet the definition that I would as an environmental scientist have as environmental damage. There's not contamination on the
2 3 4 5 6 7 8 9 10 11 12 13 14	Again, that's my understanding, yes. BY MR. HUDDELL: Q. Okay. And that understanding is not just based on this legal document, but it's based on the the discussions with counsel, right? MR. TROUTMAN: Object to the form. THE WITNESS: I understand that they have made a limited admission. As far as a legal conclusion as to whether there's environmental damage or contamination or otherwise and the definition of environmental damage, that's a legal	2 3 4 5 6 7 8 9 10 11 12 13 14	right? MR. TROUTMAN: Object to the form. THE WITNESS: I from an environmental aspect and professional, I don't agree in the sense that there is environmental damage on the property with the constituents that we have determined to be present on site do not meet the definition that I would as an environmental scientist have as environmental damage. There's not contamination on the site and the limited admission, in in
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Again, that's my understanding, yes. BY MR. HUDDELL: Q. Okay. And that understanding is not just based on this legal document, but it's based on the the discussions with counsel, right? MR. TROUTMAN: Object to the form. THE WITNESS: I understand that they have made a limited admission. As far as a legal conclusion as to whether there's environmental damage or contamination or otherwise and the definition of environmental damage, that's a legal conclusion	2 3 4 5 6 7 8 9 10 11 12 13 14 15	right? MR. TROUTMAN: Object to the form. THE WITNESS: I from an environmental aspect and professional, I don't agree in the sense that there is environmental damage on the property with the constituents that we have determined to be present on site do not meet the definition that I would as an environmental scientist have as environmental damage. There's not contamination on the site and the limited admission, in in my understanding, is to address a
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	17		18
1	Q. Is Exhibit 4 your report?	1	the soil types that he mapped and the root zone
2	A. Yes. It appears to be the text of	2	evaluation that he prepared. There are
3	our report.	3	references to it throughout the document, but the
4	Q. There there are three different	4	primary section that Matt authored would be
5	signatures on this document. One of them is	5	what is that, Section 4 possibly. No. Let's
6	yours. Can you tell me what aspect of the report	6	see. Yes. Section 4, the root zone
7	you had responsibility for?	7	investigation. Matt was the author of the root
8	A. I was involved in every aspect of	8	zone investigation section.
9	the report with Matt Greene taking primacy or a	9	Q. Can you turn to the executive
10	primary role on the root zone.	10	summary?
11	Q. And what role did Smokey Stover	11	A. (Complied.) I'm there.
12	have?	12	Q. In the sorry, the middle of the
13	A. Smokey played a role overseeing the	13	page under History, it says "On October 21st,
14	project and has historically helped with	14	2022, BP entered a limited admission of liability
15	groundwater in a depositional environment. In	15	for the environmental damage as defined by LARS
16	this particular case, I was involved in every	16	30:29 within limited admission Areas 1, 2 and 3
17	aspect of that as well, though.	17	as illustrated on Figure 6 and further defined
18	Q. Are there any parts of the report	18	below"; is that correct?
19	that that you believe Mr. Stover would be more	19	A. That's correct.
20	appropriate to address questions to?	20	Q. So you are familiar with the
21	A. Not necessarily, no.	21	definition of environmental damage as it's
22	Q. And what about with respect to	22	defined by 30:29; is that right?
23	Mr. Greene?	23	MR. TROUTMAN:
24	A. Yes. I would feel that Matt would	24	Object to the form.
25	take a primary role on the conclusions as far as	25	THE WITNESS:
	1 Ω		20
	19		20
1	I am, yes.	1	BY MR. HUDDELL:
2	I am, yes. BY MR. HUDDELL:	2	BY MR. HUDDELL: Q. Okay. And and that's that's
2	I am, yes. BY MR. HUDDELL: Q. And is it your opinion that there is	2 3	BY MR. HUDDELL: Q. Okay. And and that's that's all I want is your your professional opinion
2 3 4	I am, yes. BY MR. HUDDELL: Q. And is it your opinion that there is no environmental damage within limited admission	2 3 4	BY MR. HUDDELL: Q. Okay. And and that's that's all I want is your your professional opinion from an environmental professional standpoint.
2 3 4 5	I am, yes. BY MR. HUDDELL: Q. And is it your opinion that there is no environmental damage within limited admission Areas 1, 2 and 3?	2 3 4 5	BY MR. HUDDELL: Q. Okay. And and that's that's all I want is your your professional opinion from an environmental professional standpoint. That's more important than what the lawyers think
2 3 4 5 6	I am, yes. BY MR. HUDDELL: Q. And is it your opinion that there is no environmental damage within limited admission Areas 1, 2 and 3? MR. TROUTMAN:	2 3 4 5 6	BY MR. HUDDELL: Q. Okay. And and that's that's all I want is your your professional opinion from an environmental professional standpoint. That's more important than what the lawyers think about it. I would I would represent that.
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	21		22
1	conditions of the site. The legal	1	intended purposes. And, frankly, the
2	definition of environmental damage was not	2	concentrations that we have identified in
3	something we relied upon necessarily.	3	again both soil and groundwater meet
4	BY MR. HUDDELL:	4	regulatory standards and the intent of our
5	Q. Okay. So could you explain again	5	plan is to conduct physical pit closures
6	why is it that you don't believe from an	6	with removal of some constituents as part
7	environmental professional standpoint that the	7	of department policy; and that that and
8	soil and/or groundwater in limited admission	8	that those constituents and concentrations
9	Areas 1, 2 and 3 meet the definition of	9	do not meet the definition of my
		10	•
10	environmental damage? MR. TROUTMAN:	11	understanding under 29-B of contamination. BY MR. HUDDELL:
11			
12	Object to the form.	12	Q. I don't I don't think I'm going
13	THE WITNESS:	13	to mark this as an exhibit, but just so that we
14	Well, from the context of my report	14	are on the same page as far as a definition of
15	and and my understanding that the	15	environmental damage, we we printed out 30:29.
16	and without actually having the definition	16	And it looks like if we go to page 5, we have
17	in front of me recalling that from memory,	17	we have got, like you said, the environmental
18	that environmental damage is predicate on	18	damage definition; and that incorporates also
19	the presence of contamination; and	19	this word contamination, right?
20	contamination is defined under 29-B as	20	A. It does.
21	that that would render the property	21	Q. And then and then contamination
22	unusable for its intended purposes. None	22	is also defined, right?
23	of the constituent concentrations that we	23	A. It is, yes.
24	have identified in the soil or groundwater	24	Q. Okay. And so environmental damage
25	render the property unusable for its	25	"shall mean any actual or potential impact,
	1 1 2		, ,
	23		24
1		1	
1	damage or injury to environmental media caused by	1 2	Not as a lawyer.
2	damage or injury to environmental media caused by contamination resulting from activities	2	Not as a lawyer. BY MR. HUDDELL:
2	damage or injury to environmental media caused by contamination resulting from activities associated with oilfield sites or exploration and	2 3	Not as a lawyer. BY MR. HUDDELL: Q. Okay. And so what you're saying is
2 3 4	damage or injury to environmental media caused by contamination resulting from activities associated with oilfield sites or exploration and production sites. Environmental media shall	2 3 4	Not as a lawyer. BY MR. HUDDELL: Q. Okay. And so what you're saying is that you don't believe that there's impact or you
2 3 4 5	damage or injury to environmental media caused by contamination resulting from activities associated with oilfield sites or exploration and production sites. Environmental media shall include, but not be limited to, soil, surface	2 3 4 5	Not as a lawyer. BY MR. HUDDELL: Q. Okay. And so what you're saying is that you don't believe that there's impact or you don't believe there's any actual or potential
2 3 4 5 6	damage or injury to environmental media caused by contamination resulting from activities associated with oilfield sites or exploration and production sites. Environmental media shall include, but not be limited to, soil, surface water, groundwater or sediment"; is that right?	2 3 4 5 6	Not as a lawyer. BY MR. HUDDELL: Q. Okay. And so what you're saying is that you don't believe that there's impact or you don't believe there's any actual or potential impact to environmental media caused by
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	25		26
1	A. Similar, if not the same.	1	THE WITNESS:
2	Q. And you have worked with 29-B a lot	2	That's correct.
3	in your career, right?	3	BY MR. HUDDELL:
4	A. Yes.	4	Q. Okay. And that's that's at all
5	Q. And here contaminant means	5	three limited admission areas, correct?
6	"Introduction or presence of substance into	6	A. Yes.
7	contaminants into a usable groundwater aquifer or	7	Q. And then with respect to
8	underground source of drinking water or soil in	8	groundwater, you don't believe that there are
9	such quantities as to render them unsuitable for	9	substances in the groundwater in such quantities
10	their reasonably and intended purposes"; is that	10	as to render the groundwater unsuitable for its
11	right?	11	reasonably intended purpose, correct?
12	MR. TROUTMAN:	12	MR. TROUTMAN:
13	Object to the form.	13	Object to the form.
14	THE WITNESS:	14	THE WITNESS:
15	That's correct. That's what this	15	Yes. And in addition, the
16	document defines contamination as.	16	definition of contamination states that
17	BY MR. HUDDELL:	17	into a usable groundwater aquifer or an
18	Q. So starting with the soil first, you	18	underground source of drinking water.
19	don't believe there is there's soil you	19	There are have no excuse me. There
20	don't believe that there is in the soil	20	have not been any constituents identified
21	substances or contaminants that would render the	21	in a usable groundwater or underground
22	soil unsuitable for its reasonably intended	22	drinking source of drinking water let
23	purpose, right?	23	alone at quantities that would render them
24	MR. TROUTMAN:	24	unusable for their intended purposes.
25	Object to the form.	25	BY MR. HUDDELL:
	27		28
	27		28
1	Q. Okay. And that's true at all three	1	not it's not soil related.
2	Q. Okay. And that's true at all three limited admission areas?	2	not it's not soil related. MR. HUDDELL:
2 3	Q. Okay. And that's true at all three limited admission areas?A. Yes. I don't know if you want this	2 3	not it's not soil related. MR. HUDDELL: I know, but yeah. Okay. Yeah.
2 3 4	Q. Okay. And that's true at all three limited admission areas?A. Yes. I don't know if you want this back or not, but	2 3 4	not it's not soil related. MR. HUDDELL: I know, but yeah. Okay. Yeah. You can answer.
2 3 4 5	 Q. Okay. And that's true at all three limited admission areas? A. Yes. I don't know if you want this back or not, but Q. Okay. Okay. With respect to the 	2 3 4 5	not it's not soil related. MR. HUDDELL: I know, but yeah. Okay. Yeah. You can answer. THE WITNESS:
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2 3 4 5 6 7	Q. Okay. And that's true at all three limited admission areas? A. Yes. I don't know if you want this back or not, but Q. Okay. Okay. With respect to the soil, did did you find any constituents in any of the three limited admission areas that exceed	2 3 4 5 6 7	not it's not soil related. MR. HUDDELL: I know, but yeah. Okay. Yeah. You can answer. THE WITNESS: From what I can recall and we can certainly look into it deeper, but there
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A. Well, I'm referring to Table 2, page 1 of 1, and there were elevated constituents of metals and/or hydrocarbons identified at select borings including HA-1, SB-17, 18, 19, and 20, which have been both horizontally and vertically delineated. And the concentrations I'm referring to as exceeding are -- it's Chapter 3 pit closure standards only.

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We have an exceedance of the Chapter 3 standard of oil and grease, yes That has been further evaluated under RECAP and subject to the proposed pit closure remediation that we offer in our report.

BY MR. HUDDELL:

Q. Okay. And then at -- at SB-18, 0 to 2 feet, you -- you, HET, found oil and grease at 2.05 percent; is that correct?



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A. That's correct, yes. Q. And that is in violation of the 29-B standard for oil and grease; is that right?

MR. TROUTMAN:

Object to the form.

THE WITNESS: Same answer I gave a moment ago. It

exceeds the Chapter 3 standard of 1 percent that was further evaluated under RECAP.

BY MR. HUDDELL:

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- Q. Okay. And at SB-20, we've got an oil and grease of 1.97 correct?
 - A. That's correct.
 - And that's in exceedance of the regulatory limit of oil and grease, correct?
 - A. Under Chapter 3 pit closure standards only, yes.
 - Q. Okay. At SB-20, we have 2.92 percent, correct?
 - A. That's correct.
- 22 Q. And that's in excess of the
- 23 regulatory limit of 1 percent for oil and grease, 24 correct?
 - A. Yeah. Same answer, subject to the

- Chapter 3 pit closure standard, subject to further evaluation and remediation.
- Q. And I guess going back to HA-1, HET's split sample had an oil and grease concentration of 8.4 percent, correct?
- And that's in excess of the 29-B pit Q. closure, 29-B --
 - A. Yes, in exceedance of --
- 10 Q. -- pit closure requirement?
- A. I'm sorry. I thought you were done. 11 12 I didn't mean to interrupt you. Yes, it's in 13 exceedance of the Chapter 3 standards, yes.
 - Q. Okay.
 - Same scenario as the others. A.
 - Q. Does HET propose to clean that up? MR. TROUTMAN:

Object to the form.

THE WITNESS:

We propose to conduct pit closure with the excavation and off-site disposal of the 0 to 2 interval as part of the overall physical pit closure activities, yes.

BY MR. HUDDELL:

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- Q. At Area 2, how much is that soil pit closure going to cost?
- A. I don't have that breakdown in front of me. We have it I think totaled in our report. I don't know that I have it broken down by area, but we can certainly get that to you.
- Q. Do you have it broken down by area in -- in some appendix or something?
- A. I'm not aware that the breakdown of costs within one of the appendices actually separates it by area or not.

We summarized the total pit closure of all three pits within limited admission Areas 2 and 3. On page 49 of our report, appendix P, contains the cost estimates, but, again, I'm not sure -- I'd have to review it to see if it's broken out by each individual pit or the soil remediation as part of the pit closure activities for limited admission Areas 2 and 3.

- 20 Q. Okay. All right. Limited admission 21 Area 3, do we have exceedances of 29-B standards 22 at Area 3?
- 23 A. We do, yes, at both pits, one of 24 which HET assessed and one of which both HET and 25 ICON assessed.

- Q. Okay. And what sample locations would we look at for Area 3 exceedances?
- A. So looking at Table 4, the data here is separated into what we refer to as the eastern and western pits. You can see that there's a break at the very top. The first line after the regulatory standards says eastern pit, and then if you turn to page 2, in the top quarter of the page, there's another break, western pit, so they are separated by each pit for ease of reference.

So from a 29-B perspective, in the eastern pit, you would have exceedances of the Chapter 3 standards in soil borings 1 through 5 installed by HET.

- Q. And does that include 5 and 5R, the -- well, why is there like a 5 and a 5R?
- A. We returned to the site in September of this year to conduct additional analysis to obtain horizontal and vertical delineation of the Chapter 3 pit closure standards, and 5R was installed to vertically delineate and then maybe -- I'll try to remember the best -- and soil borings SB-25 and SB-26 installed in September were installed to complete the horizontal delineation, and so that's why you have an SB-5R.

Pages 33 to 36



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Q. Which -- which 29-B parameters are being exceeded at the SB-1 through 5 locations?

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- A. Primarily barium. In consideration of the statewide background level for arsenic, arsenic does not exceed, but technically arsenic would exceed the Chapter 3 pit closure standards; and that's why the department allows for additional evaluation outside of Chapter 3, to put those type of concentrations in context or further evaluation under RECAP or otherwise.
- Q. Okay. Any other exceedances at the eastern pit?

12 13 A. Yes. There was an exceedance in soil boring SB-8 in the ICON split sample data, 14 15 but we confirmed through third party analysis and 16 in addition to our split sample result that the 17 true total barium concentrations in that sample 18 were, in fact, below 29-B standards; and so that 19 would be SB-8, 0 to 2. Given -- given the 20 discrepancy between the split sample results in 21 which ICON had an exceedance of the 29-B standard 22 and our initial evaluation did not show that 23 exceedance, we had a third party lab analyze the 24 sample retains to confirm that there was, in 25 fact, not an exceedance at SB-8.

Q. Well, did you figure out what the discrepancy was? Did the lab make a mistake or

A. It -- it appears that the sample results from -- well, actually the data demonstrates that the sample results from Element could not be confirmed by two separate laboratories; and as far as why Element reported and two other labs did not, I don't know why, but in accordance with department policy, I think we have addressed the fact that not only was it not exceeding at that location, but we did install a boring to horizontally delineate in the fact -in the event that it was determined that it still had an exceedance at that location. But I was not able to identify why Element reported that number as far as lab error or otherwise. I -- I haven't made that conclusion yet.

- Q. Okay. But -- but for SB-1 through SB-5, we have exceedances of the 29-B standard for true total barium, right?
- A. That's correct.
- Q. Okay. Okay. How about the western pit, we have exceedances of any regulatory standards at the western pit?

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A. We do. This is the pit that ICON did assess in limited admission Area 3 in which elevated concentrations of oil and grease and true total barium were identified in soil boring HA-2 installed by ICON as well as, at least in some of the split sample results, potentially concentrations of cadmium, lead and zinc above 29-B standards. Again, those are further evaluated under RECAP that we can discuss.

That sample result was reproduced and further evaluated and delineated within our sample results from soil borings 10, 11, 12 and 13, of which exceedances were reported in 10, 11 and 12 within the confines of the pit itself.

And those exceedances, again, I'm --I'm -- in -- in referring to the Chapter 3, 29-B standards, those concentrations have been both further assessed from ICON and horizontally and vertically delineated.

- Q. The cadmium exceeds the RECAP screening standard; is that right?
- A. That's correct. It is below -thank you for drawing that to my attention. It exceeds the RECAP screening standard, but it is below the Management Option 1 standard, which is

more appropriate to use, and it is below the

Same with lead, which was reported above the screening standard in HA-1 only. Actually, but in HA-1 it was reported above RECAP screening but below the lead -- the 29-B standard of 500.

- Q. Do you think the oilfield operations would have been the source of the cadmium that was detected?
- A. Yes.

MR. TROUTMAN:

Object to the form.

BY MR. HUDDELL:

- Q. Okay. And what -- what oilfield process would have resulted in the cadmium release that we are -- we are detecting?
 - A. I'm not aware --

19 MR. TROUTMAN:

20 Object to the form.

21 THE WITNESS:

I'm sorry. I didn't mean to interrupt. I'm not aware of the specific mechanism.

BY MR. HUDDELL:

COURT REPORTING & LITIGATION SUPPORT

	41		42
1	Q. Okay. But you think it was more	1	Chapter 3 standard, yes.
2	likely than not from oil and gas operations?	2	Q. Are are you the one who did the
3	MR. TROUTMAN:	3	RECAP analysis?
4	Object to the form.	4	A. Yes, the human health risk
5	THE WITNESS:	5	assessment, yes.
6	That would be my understanding, yes.	6	Q. Oh. So how did you how did you
7	BY MR. HUDDELL:	7	find the eastern pit? How did HET find it?
8	Q. Okay. So for the western pit, we	8	A. We observed the pit during the
9	have exceedances of oil and grease standards	9	initial investigation by ICON; and, as we were
10 11	oil and grease standards at SB-10, SB-11 and	10 11	asked to conduct our independent assessment of the property, we determined the need to sample
12	HA-2; is that correct? A. That's correct, yes.	12	that pit to determine its regulatory status.
13	Q. Okay.	13	Q. You observed it while you were out
14	A. And, as we mentioned several times,	14	there with ICON
15	that was further assessed under RECAP, but those	15	A. Yes.
16	are a reported exceedance of the Chapter 3	16	Q is that what you're saying?
17	standards only.	17	Okay. How could you tell that it was a pit?
18	Q. Okay. And at at several of these	18	A. All three of the pits, subject to
19	locations in the western pit, we have also got	19	the limited admission Areas 2 and 3, have
20	exceedances of the true total barium standard for	20	existing berms and are somewhat evident in the
21	29-B, correct?	21	field that they are oilfield related pits in
22	A. Yes, for the Chapter 3 standard that	22	nature.
23 24	was further evaluated under RECAP for X-ray defraction determined as barium sulfate and below	23 24	Q. You you did a RECAP analysis and
25	the soil and groundwater pathway but above the	25	determined that at all three of the pits the there were no human health risks, correct?
20	the soft and groundwater pairway out above the	25	there were no numan nearth risks, correct:
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1	A. That's correct. That the reported	1	pits are open, you would have to obtain a
2	standards would meet an MO-1 human health risk	2	passive closure requirement to leave them
3	assessment standards.	3	in place. And that's a mechanism that the
4	Q. And you've further had an analysis	4	department uses in certain instances;
5	of the ecological risk; is that right?	5	however, that passive closure requirement
6	A. Done by Dr. Connelly, yes.	6	or the passive closure option, excuse me,
7	Q. Okay. Did you have any involvement	7	dictates that you must meet Chapter 3 pit
8 9	in that?	8	
9	A Other then we will a viith II along to	ا م	closure standards, that you can't have a
-	A. Other than working with Helen to	9	concentration in exceedance of Chapter 3
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10	provide information and provide lab, etc., whatever information she needed to do it. I did	10 11	concentration in exceedance of Chapter 3 regardless if it meets other provisions of Chapter 3 or RECAP or otherwise, that the
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10 11 12 13 14 15 16 17 18 19 20 21 22	provide information and provide lab, etc., whatever information she needed to do it. I did not perform calculations or otherwise. That assessment would strictly be performed and the result of Dr. Connelly's conclusions. Q. And your understanding is that she didn't find any ecological risk, correct? A. That's correct. Q. So why is it that HET proposes to remediate the soil in these three pit locations? MR. TROUTMAN: Object to the form. THE WITNESS:	10 11 12 13 14 15 16 17 18 19 20 21 22 23	concentration in exceedance of Chapter 3 regardless if it meets other provisions of Chapter 3 or RECAP or otherwise, that the department requires at least physical closure in that sense. And so at the very least, physical closure would be required. The mechanism for soil remediation because we could simply go out there and physically close the pits, pump out the water, close the pits and be done. The remediation was based on expediency in which we have equipment on site. We need to perform the pit closures instead of waiting for lab results from

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more expedient, more cost effective just to go ahead and remove the pit contents as part of the physical pit closure.

As you can imagine, given the remote nature of the site and otherwise, having equipment out there for an extended period of time waiting on the lab can get expensive, and so it was more cost effective to simply remove the pit contents and close it instead of doing a mixing and blending and waiting on confirmatory results.

BY MR. HUDDELL:

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Q. You in the past -- or let me rephrase that.

You have requested passive closure before in your line of work, right, for pits?

- A. We have, yes.
- Q. Okay. And I've seen that, for example, in instances where the only exceedances are -- are barium, right?
- A. It may have been in the past. More recent department policy is that you still would need to meet those Chapter 3 pit closure standards.

Q. Oh, okay. I didn't know that.

- A. I don't know if that -- when or if that threshold -- I'm not aware of closing out a particular pit with elevated true total barium that I can recall off the top of my head, but within more recent past, the department has required that you obtain concentrations in line with 29-B Chapter 3 pit closure in order to perform or to obtain a passive pit closure.
 - Q. Okay. In the other cases that I've had with limited admissions, ERM has submitted a hypothetical 29-B plan. Have you seen those -that before?
 - A. Yes. And we have done so as part of those cases where it wasn't a limited admission, but we've had hearings in front of the agency as well.
- Q. Okay. And, in those cases, for example, in Hero, Chevron's hypothetical 29-B plan involved pumping and treating the groundwater; do you recall that?
 - A. Yes.
- Q. Why do you not have a hypothetical 29-B plan for this case?

MR. TROUTMAN:

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attenuation.

In the event that the department does want to see a pump and treat plan as an option for monitored natural attenuation, then we refer to the ICON pump and treat plan; but we feel that monitored natural attenuation under 29-B is -- is compliant with those regulations.

BY MR. HUDDELL:

Q. Is it your understanding that, as ERM has put in their hypothetical plans, that outside of Act 312 that background would be the groundwater cleanup criteria --

MR. TROUTMAN:

Object to the form.

BY MR. HUDDELL:

Q. -- not 29-B?

A. Not necessarily, no. 29-B was a -evolved for pit closure, and they didn't have a groundwater standard for within those regulations and so they reference background concentrations as -- as something that would be, you know, a comparative standard per se.

Since promulgation of those regulations, they now use the RECAP screening

Object to the form.

THE WITNESS:

From our evaluation for soil, a hypothetical plan is not necessary because the pit closure that we propose is 29-B compliant for soil.

MR. HUDDELL:

Right.

THE WITNESS:

For the same reason we talked about for cost benefit analysis for pit closure, it was more cost effective to excavate and close and dispose of the pit contents offsite than waiting for the -- the lab results and whether -- given equipment costs. So short answer, we felt fine that our proposed pit closure is 29-B compliant for soil.

It's our understanding and our opinion that monitored natural attenuation is also a 29-B compliant groundwater plan and a monitored -- the site meets the requirements for or the evaluation of that would result in a plan that would be approved for monitored natural

Pages 45 to 48



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49 1 and/or EPA has got thresholds to evaluate 1 2 2 groundwater impact; and certainly in all 3 instances the department has considered risk 3 4 assessment and other standards as an exception to 4 5 the 29-B pit closure rule for evaluation, 5 6 implementation of -- of alternate standards on 6 7 7 numerous cases. 8 MR. HUDDELL: 8 9 Okay. 9 10 THE WITNESS: 10 11 And so I guess for those standards, 11 12 background is a comparative standard for 12 13 lack of groundwater standards within the 13 14 1986 regulations. 14 BY MR. HUDDELL: 15 15 16 Q. Okay. So what -- what standard --16 17 what remedial standard are you applying to the 17 groundwater at the -- at the site? 18 18 19 A. Certainly as Dr. Cooper can further 19 20 testify to, we feel that the monitored natural 20 21 21 attenuation will achieve a comparative drinking 22 water standard or whatnot potentially over time; 22 23 23 however, for our evaluation within -- within the

conducted a RECAP standard demonstrating that these soils meet the groundwater standards calculated under RECAP.

- Q. You said the soils?
- A. I'm sorry. Groundwater standards. I'm sorry.
- Okay. So well, what -- what Q. groundwater standard did you apply to these three limited admission areas?
- A. We feel that over time through monitored natural attenuation that these concentrations could likely be meeting a regulatory screening standard or otherwise.
- Dr. Cooper, of course, can -- can opine more on that. And in support of that monitored natural attenuation plan, we also consulted the RECAP standard, so we're applying both for evaluation by the department.
- Q. Okay. And you are applying both you said. What -- what are the two standards that you are applying to the groundwater in the three limited admission areas?
- A. Well, under our plan, we -- the data demonstrates that over time monitored natural attenuation would continue to result in a

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concentration that would meet over a large -- a long period of time would meet drinking water

context of our report outside the bounds of

monitored natural attenuation, we've also

3 standards or otherwise. In support of the

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4 monitored natural attenuation, we also calculated 5 the RECAP standards. And showing that there is

6 no threat to human health and the environment and 7 evaluating under RECAP for the monitored natural

8 attenuation requirements, that those -- even 9 though that we meet the RECAP standards, over 10 time through the monitored natural attenuation,

you would achieve the same goal as --

Q. As pump and treat?

A. As pump and treat. Thank you.

Q. Okay. Let's set aside the remedial approach. And I know that you're using monitored natural attenuation, but are you saying that the two -- two standards that are you are looking at are the drinking water standards and then the RECAP standards for groundwater; is that fair?

MR. TROUTMAN:

Object to the form.

THE WITNESS:

That is a -- the two standards that we reference in our report, the second of which, the latter of which is in support

of the monitored natural attenuation. BY MR. HUDDELL:

- Q. The RECAP standards are in support of the monitored natural attenuation?
- A. Yes. We calculated them to demonstrate that there was no threat to human health and the environment; and that there was no need for active remediation; and that the timeframe in which monitored natural attenuation could be performed would not result in any adverse impact to the site; that, again, there's no threat to human health and the environment by the groundwater constituents; and, therefore, active remediation is not required. And I say active. Pump and treat is not required.
 - O. Can I call it MNA for short?
 - A. Yes.
- 18 Q. Is MNA an active remediation 19 technology?
 - A. Yes. It is considered by the regulatory agencies to be an active remediation.
 - Q. And if I'm -- if I'm going too much into Dr. Cooper's area, let me know, but how -how long are you planning to perform MNA?
 - A. Our report has a groundwater

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monitoring period of one year, which is more tailored, in my opinion, to confirming that the groundwater conditions remain stable after pit closure activities are performed. We have assessed this area with Iberville Parish from I think 2013 on. We could look at the exact dates, but we've been out here for a bit. As far as the timeframe and -- and otherwise, that would be a question for Dr. Cooper.

Q. So the one year that you are talking about is not MNA per se, it's -- it's really to see if your post pit closure remediation has had an effect on the groundwater concentrations --

MR. TROUTMAN:

Object to the form.

BY MR. HUDDELL:

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Q. -- is that right?

A. In general, yes. Because it's a department policy to conduct a one-year post closure monitoring period; and that's more of my understanding. Whether or not that benefits Dr. Cooper's analysis, please visit him about; but in my opinion, it's more for those purposes.

Q. For the pit closure purposes?

Yes. And then again, I don't expect

anything because the groundwater concentrations in the limited admission Areas 2 and 3 are slightly elevated for chloride parameters and the pit closure activities are being performed for metals and hydrocarbons. We don't have any exceedances of EC in the soil in limited admission Areas 2 and 3, and so I don't expect any adverse conditions to -- or any changes in the groundwater zone. That's more of a department policy; and, again, should that add additional benefit to Dr. Cooper, you'd have to visit on him that, on the MNA.

Q. All right. So let's look at groundwater.

MR. HUDDELL:

Actually, you want to take a ten-minute break?

THE VIDEOGRAPHER:

19 We are off the record. 10:17 a.m.

20 (A short recess was taken.)

21 THE VIDEOGRAPHER:

We are back on the record.

23 10:34 a.m.

24 BY MR. HUDDELL:

Q. I'd like to talk about the

groundwater in limited admission Areas 1, 2 and

Can you tell us which sample locations show any exceedances of any groundwater standards in limited admission Area 1?

MR. TROUTMAN:

Object to the form.

THE WITNESS:

Based on the results that we have reviewed, groundwater standards from -are collected from ICON's temporary monitor well LT-1. Reported elevated constituents of chloride related parameters above comparative drinking water standards which have been demonstrated to meet RECAP standards as calculated in our report.

18 BY MR. HUDDELL:

O. That's Table 8?

20 A. Table 7.

Q. Oh. Seven.

A. And 8, but mainly Table 7.

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23 Q. Okay. LT-1, HET found a chloride 24 concentration of 12,400 milligrams per liter,

25 correct? 1 That's correct, yes.

> What is your opinion as to the source of the chloride concentrations being found at LT-1?

A. It appears to be associated with an emanated groundwater plume from the Iberville Parish School Board property.

Q. And why do you believe that it's from the school board property?

A. As we discussed a moment ago, there are no surface chloride concentrations above the water-bearing zone, above regulatory standard and the exceedances in both soil and groundwater from at least the comparative screening standards either from 29-B or otherwise -- excuse me -were only identified within the saturated zone, and so there's no surface soil source that's been identified in the vicinity of LT-1 to serve as a source on the Levert property. And given our knowledge and history with the Iberville Parish School Board assessment, it seems evident based on the data that it's associated with the groundwater plume identified, monitored and evaluated and closed under the agency on the Iberville Parish site. That's Iberville Parish

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1 School Board property. Excuse me. 1 THE WITNESS: 2 2 Q. When did you close -- well, you were Certainly, again, we don't -- we 3 responsible for closing the pit on the school 3 differ on whether there's contamination or board property; is that right? 4 4 5 A. Yes. We conducted pit closures in 5 MR. HUDDELL: 6 various areas of investigation, including the 6 I'm sorry. 7 central facility or is what we refer to as the 7 THE WITNESS: central facility associated with the Areas 1 and 8 8 I don't find there's contamination, 9 2 on the Iberville Parish School Board property, 9 but the extent of the chloride 10 which that central facility straddled the 10 constituents identified in the groundwater that have been demonstrated to meet RECAP 11 property boundary, but the pits themselves appear 11 to be the source which were confined to the standards appears to be the -- the former 12 12 Iberville Parish School Board property. 13 13 pit complex just west of the Iberville --14 Q. Can we look at Figure 6 from your 14 I'm sorry -- the Levert property boundary. 15 report? All right. Do you have Figure 6 in 15 BY MR. HUDDELL: 16 front of you? 16 Q. Okay. So you've circled in red a 17 17 former production pit; is that right? A. Yes. Q. I'm going to hand you this red pen 18 A. That's correct. 18 Q. Okay. And I know you said it 19 (tendered.) And looking at the -- the 1987 19 20 aerial that you have depicted there, can you 20 before, but I just -- I just want to know all of 21 circle what you believe is the source of the 21 the -- all of the reasons why you believe that 22 contamination emanating onto the Levert property 22 that pit that you circled in red would be the 23 23 in the groundwater? source of the groundwater underneath the limited 24 MR. TROUTMAN: 24 admission Area 1, the source of the elevated 2.5 Object to the form. 25 constituents in the groundwater? 59 60 1 A. Yeah. It's based on the data 1 esthetic standards that EPA has listed for TDS as 2 obtained and evaluated through the assessment of 2 chlorides and TDS or salinity base don't pose a 3 the school board property and the concentrations 3 threat to human health, so those comparative 4 standards, but they do have -- excuse me -- they 4 identified in the soil on the Levert property 5 5 have been determined to meet the RECAP standards. that there are no elevated constituents above the 6 6 saturated zone in the vicinity of LT-1, that Q. Do you know how long those chlorides 7 7 have been there in the groundwater at LT-1? there were no other constituents identified above 8 8 A. No, I do not. standards in the -- in this portion of the site 9 Q. Okay. Do you know approximately the 9 on Levert other than within the saturated zone. 10 last time any potential source could have 10 So there's no soil source that's been identified 11 that would result in these constituents on Levert 11 contributed to the chlorides found at LT-1? 12 12 A. It would be the dates of operation, property. 13 13 in my opinion, of the pits that are located off Q. We also have elevated levels of TDS 14 at LT-1; is that right? 14 A. That's correct. And that's one of 15 15 Q. And with respect to the barium, the the parameters I would associate it with 16 16 barium at LT-1 exceeds the RECAP screening 17 salinity. 17 standard for groundwater; is that right? 18 18 A. That's correct. It exceeds the Q. And we also have elevated levels of drinking water standard but meets the GW-3 19 barium at LT-1, correct? 19 20 A. That's correct, yes. 20 standard under RECAP. 21 Q. There's also an exceedance of iron 21 Q. And -- and so with respect to the chlorides and the TDS, those exceed the EPA 22 at the -- at LT-1; is that correct? 22 23 A. That's correct. There are 23 secondary drinking water standards; is that

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right?

A. That's correct. They exceed the

exceedances of the EPA secondary drinking water

standard for iron and manganese, which is pretty

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prevalent through a lot of these zones and also identified in the background borings or monitoring wells, excuse me, installed by ICON and so we -- we feel that the iron and manganese and to some extent arsenic and otherwise, if it were to be detected, are more a function of the conditions of the aquifer itself.

Q. Do you think the oilfield constituents contributed at all to the manganese or iron that's being found at LT-1?

MR. TROUTMAN:

Object to the form.

THE WITNESS:

I can do some research on that, but there are -- I don't recall the numbers right off head -- hand -- excuse me -- as compared to the background standards, but the arsenic, iron and manganese are prevalent in all of these zones, even in drinking water aquifers, so I don't have an opinion at this time on that.

BY MR. HUDDELL:

- Q. Now, we didn't find any arsenic exceedances at LT-1, correct?
 - A. We did not, no.

Q. Okay. We have also got radium, combined radium nuclides of 6.28 picocuries per liter; is that right?

A. That's correct. That standard above the five combined EPA standard that Dr. Frazier would opine, but I understand that Dr. Frazier concluded that that was not associated with oilfield NORM. It was also related to in general the salinity concentrations.

Q. Okay. Table 9, what does Table 9 show us?

A. Table 9 would represent the groundwater analytical results from ICON temporary monitor well LT-2 found in limited admission Area 2.

Q. And do we have elevated constituents in the groundwater at limited admission Area 2 at LT-2?

A. We do, and same conditions in general as limited admission Area 1; although we don't feel that it's related to limited admission Area No. 1, but we have elevated concentrations of salinity above EPA drinking water standards that have been determined to meet the RECAP GW-3 standards.

Q. In particular, the chlorides and TDS exceed the US EPA secondary drinking water

standards; is that right?

A. That's correct. And comparison to those is strictly just for that purpose. These zones are nondrinking, do not yield enough either under EPA or RECAP to serve as a drinking water standard and so they are listed for comparative purposes only as applying drinking water standards is not appropriate for these zones.

Q. And it's your understanding that the chlorides and TDS found at LT-2 in Area 2 are a result of oilfield operations; is that correct?

A. Yes.

Q. Do you know if the soil at limited admission Area 2 is a continuing source of any of the salinity components that could have been found in the groundwater?

A. The data demonstrate that it is not, that soil would not serve as an ongoing source for this, and the soil concentrations meet both 29-B standards and -- under Chapter 3 and have been determined to residual concentrations or whatnot to be below the threshold to result in migration or -- or soil groundwater pathway;

thus, they are not defined as an ongoing source under RECAP.

Q. Have you ruled out the pit on the school board property as being a source of the chlorides then found at limited admission Area 2?

A. It may have been a historical source, but the current constituents, one, don't exceed the Chapter 3 standards and have been determined to meet RECAP standards protective of soil to groundwater, so they are not an ongoing source.

Q. And I just want to make sure I asked that right.

We know that the pit on the school board property is a source of constituents we are finding in the groundwater at limited admission Area 1, correct?

A. That's correct.

Q. Is it potentially also a source of the constituents we are -- constituents we are finding at limited admission Area 2?

A. Which pit?

Q. Oh. Well, the pit that you circled?

A. No. The data demonstrates that the pit associated with the offsite central facility

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area on the school board property does not appear to be a source of the chloride concentrations within limited admission Areas 2 or 3.

- Q. Is that because we have some clean samples in between the two or -- or what?
- A. It's based on several aspects, and we mention them in our report, the first being the GEM data, in looking at the GEM survey, G-E-M survey data that ICON performed. It clearly depicts that those groundwater concentrations identified in each limited admission area are not a contiguous plume.

Second of all, the geology indicates that you have varying thicknesses and somewhat discontinuance silts within the saturated zone that would limit the horizontal migration of salts over a large distance; and those are the two main components of that evaluation.

- Q. We also have diesel range organics that exceed the DEQ screening standard; is that right?
- A. We do. And ICON often has TPH concentrations in every one of their samples, including background normally. I don't recall if they have it here, but further evaluation of the

hydrocarbon fraction data in accordance with RECAP into which RECAP even states that the

fraction data supersedes the TPH data

demonstrated that the hydrocarbon parameters are
 below regulatory screening standards even.

And in looking at the background data from ICON -- I'm sorry. That was one other. I'm sorry. They got it at LT-5, but in general ICON normally gets hits of TPH in many of their samples that are not confirmed in the fraction data as was the case here.

- Q. Do -- do you believe that the TPH DRO that was found at LT-2 would be a result of the former pit or actually the current pit on the limited admission Area 2 property?
- A. I don't consider that to be an exceedance and there's no evidence that it's from the pit. TPH D and O particularly can host and report a wide range of nontarget analytes; and given the fact that the fraction data does show all of that to be non-detect even to the RECAP screening standards, I don't consider that to be a hit especially since, as I said, the fraction data supersedes the TPH data.
 - Q. We did find arsenic at LT-2,

correct?

A. Yes.

Q. And that does exceed the RECAP screening standard for groundwater; is that right?

- A. The screening standard, yes; but there are levels in the background data that ICON collected from eight and nine that are higher than these concentrations, so I don't consider that to be an exceedance associated with oilfield operations. Again, arsenic, iron, manganese and some other -- other constituents -- excuse me -- can be functions of the aquifer itself but not a result of oilfield operations.
- Q. We have exceedances of selenium -- selenium at LT-2; is that right?
 - A. That's correct.
- Q. And do you think that that's a result of oilfield operations?
- A. The potential exists for that to be associated with oilfield operations, but I haven't made that definitive conclusion on selenium. That concentration, of course, slightly above the drinking water standard but well below the RECAP standard.

Q. Okay. But, definitively, we can't say that the -- the salt parameters chloride and TDS, that those elevated levels are a result of oil and gas operations, correct?

- A. It appears to be so, yes.
- Q. And those are above what you would expect to find in the natural background, correct?
 - A. That's correct.
- Q. And -- and that was also true with respect to Area 1, that the chlorides and TDS were above what you would expect for natural background, correct?
 - A. That's correct.
- Q. Okay. Let's head to limited admission Area No. 3. Where did we see that?
- A. That would start on Table 11 with the salinity and metal based parameters on Table 11 and the additional hydrocarbon related constituents found on Table 12.
- Q. All right. So at LT-3, we have got chlorides of 1,410 and TDS of 3,260, correct?
 - A. Yes. In the ICON data, yes.
- Q. All right. And -- and -- and HET found chloride levels a little bit higher,

70 69 1 2,600 milligrams per liter, correct? 1 parameters. 2 2 A. That's correct. O. And we have no exceedances of the 3 Q. And TDS of 3,720 milligrams per 3 arsenic screening standard, correct? 4 A. That's correct, at LT-3. liter, correct? 4 5 5 A. That's correct. Q. We have slightly elevated selenium 6 Q. And you believe that those elevated 6 at LT-3, correct? 7 levels of chlorides and TDS would be a result of 7 A. That's correct. 8 oil and gas operations within limited admission 8 Q. And I think you said that that could Area 3, correct? 9 9 be from oilfield operations, but you haven't made 10 A. Yes. 10 that determination, correct? A. That's correct. Especially since 11 Q. And those are above what you would 11 12 expect for natural background, correct? 12 the split sample results in both the total and 13 A. That's correct. But do meet the the dissolved analyses did not also confirm the 13 14 presence of selenium and we have seen in the past RECAP standards, yes. 14 15 Q. And, here again, ICON found elevated 15 ICON data to report selenium concentrations that 16 levels of diesel range organics and oil range 16 have not been confirmed in split sample analyses. 17 organics in the groundwater LT-3 correct? 17 So the fact that it's not present in either the 18 A. That's correct, that weren't 18 total or dissolved sample from us draws question 19 confirmed in the fraction analysis, so I don't 19 as to whether it's a constituent of concern. 20 feel that those are true to the presence of 20 Regardless, though, we evaluated that under 21 hydrocarbons there. 21 RECAP. 22 Q. At both Areas 2 and 3, we do have 22 And that same scenario at LT-2, now 23 elevated oil and grease, correct, in the soil? 23 that I'm looking at it. Selenium was not 24 A. We do in the surface soils that have 24 confirmed in the HET data, so similar situation. 25 been vertically delineated in both 29-B and RECAP 25 Q. Okay. And so your -- your goal with 71 72 1 that no active remediation as far as a respect to groundwater is -- is to have it meet 2 the drinking water standards? I'm still not 2 pump and treat is necessary; and as a 3 entirely sure what -- what is your 3 further evaluation of those groundwater 4 concentrations that meet RECAP, we've 4 target? What is it that you want to -- what 5 5 remedial standard do you want to meet with determined that it would support a 6 6 respect to the groundwater in these three limited long-term MNA. 7 7 admission areas? So in my evaluation of the site, I 8 MR. TROUTMAN: 8 would consider the RECAP standards to be 9 9 the primary role, but as a result of the Object to the form. 10 THE WITNESS: 10 MNA that we have evaluated and further Our evaluation has demonstrated that 11 evaluated by Dr. Cooper, those standards 11 12 12 the RECAP standards are the most feasible would naturally attenuate over time. 13 plan that the standards are -- demonstrate 13 BY MR. HUDDELL: 14 that there's no threat to human health and 14 Q. And you think they would attenuate the environment. This -- we call these 15 15 all the way to -- to meeting the drinking water 16 groundwater samples because it is within a 16 standards, for example, for chlorides of 17 17 saturated zone, but this zone is not 250 milligrams per liter? MR. TROUTMAN: 18 capable of yielding enough water under 18 19 EPA, RECAP, any definition of a USDW, 19 Object to the form. 20 under 29-B. 20 THE WITNESS: 21 These zones are discontinuous and 21 I think over -- I think over time 22 otherwise, and so we feel that the RECAP 22 they would certainly get as feasible to 23 23 standards are the most feasible and -- and that standard as possible, but, again, 24 applicable standard for the site. Those 24 that would be an evaluation you need to 25 25 standards themselves, though, demonstrate visit with Dr. Cooper about.

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BY MR. HUDDELL:

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Q. All right. And so the -- the specific RECAP standards then that you are applying to these three limited admission areas is a Groundwater 3 standard, right?

A. That's correct. The slug test data that both ICON and HET have generated to date clearly demonstrate that this would be a nonusable zone under any definition: 29-B, EPA or RECAP.

The data also demonstrates that these shallow water-bearing zones are not in communication or have the potential to discharge to the adjacent surface water bodies. It's a -a clear definition of GW-3.

- Q. And so if I'm looking at the RECAP look-up tables, would I be looking at GW-3 NDW or -- or MO-1, what -- I just -- do you know the full --
 - Yes. A.
 - Q. -- specific thing?

A. Yes. So this would be found under

23 RECAP Table 3 for the groundwater standards; and 24 the standard before applying a dilution and

25 attenuation factor would generally be the GW-3 nondrinking water as the surface water bodies are not a source of drinking water in the vicinity of the site, and then those standards are further evaluated applying a dilution and attenuation factor.

We also can use background as those preliminary standards before applying a DAF, and you can also use the EPA secondary drinking water standards. So for most of the constituents, other than chlorides and TDS, you would look at Table 3 under RECAP to start the process for that evaluation, but we also can -- have evaluated background and the EPA standards in that.

- Q. Do you set that forth somewhere in your report?
- A. Yes. The evaluation of the RECAP standards is found summarized on text table 3 on page 42 of our report.
- Q. Can you walk us through this? So, for example, chlorides, what -- what did you determine for chlorides as the applicable RECAP standards?
- A. So the first column clearly identifies the compound that is further assessed under RECAP. The second is the comparative

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standard before applying your dilution and attenuation factor that would either be found in a background evaluation or EPA, which that would be footnoted by three, in the No. 3.

And then for the metal parameters, arsenic, barium, chromium, lead and selenium, as a conservative standard, we use the drinking water standards when, in fact, for several of these constituents arsenic, primarily, the background number identified in ICON temporary monitor wells No. 8 and 9 exceed the drinking water standard. And so, again, in a conservative standpoint, we use the drinking water standard, but you could use a background standard there before applying the dilution and attenuation factor.

The third column is the dilution and attenuation factor. That's calculated under two options under RECAP appendix H, the first, that being the thickness of the water-bearing zone on average being less than 5 feet; and the second is the distance to the nearest surface water body capable of receiving discharge from the shallow water-bearing zone.

We have determined that the shallow

water-bearing zones do not have the capability of doing so and, thus, the maximum dilution and attenuation factor of 440 was applied.

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Q. Can I stop you there?

A. Yes.

Q. Is it appropriate to use a DAF when you are dealing with constituents that are migrating across a property boundary?

MR. TROUTMAN:

Object to form.

THE WITNESS:

Yes. Because under a Groundwater 3, the DAF is based on the nearest surface water body. And to where under a GW-1 or 2, that DAF takes into consideration the property boundaries, under a GW-3, it does not.

And as part, we've evaluated and closed with the agency the groundwater plume on Iberville demonstrating the exact conditions and standards that we apply here.

BY MR. HUDDELL:

Q. When did you apply for closure for the school board property?



Pages 73 to 76

A. The final petition was in a report submitted fairly recently, the pit closure reports. I can get a date for you. It's referenced in our report. And the agency just recently offered no objection to the report and requested for us to plug and abandon our monitoring wells.

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We plugged those wells within the last couple of weeks and submitted a closure report again to the agency documenting the fact that the monitoring wells have been plugged and no further field work is necessary, and we are waiting agency word on that final NFA letter; but, in fact, the no objection letter to the plugging of the monitoring wells serves as the no further investigation status with the department.

- Q. On the school board property, are you using monitored natural attenuation with respect to the groundwater?
- A. Similar to here at Levert, we evaluated this under RECAP and the department determined that those standards were -- you know, met the RECAP standards and didn't pose any threat to human health and the environment.

You can visit with Dr. Cooper about

it, but the conditions at Iberville would be the same here as to whether an MNA is a feasible plan, but at the same time, our evaluation, the primacy is focused on the RECAP standards.

- Q. So you didn't implement MNA at the school board property; is that fair?
- A. That's fair. We have not presented the MNA plan to the department on that.
- Q. In general, were the groundwater constituents greater or less than or about the same as on the Levert property?
- A. Without going into the data themselves, my recollection is that there were concentrations that are higher west of limited admission Area No. 1 on the school board property than what was found on the Levert property supporting the conclusion we made earlier, the source being the offsite pit on the school board property in limited admission Area 1 only.
- Q. So why would you need to use MNA on the Levert property since you didn't need to use it on the school board property?
- A. Well, again, our evaluation considers that RECAP, that no active remediation, including pump and treat or otherwise, is

necessary. The department has approved that under numerous sites, both with and without landowner consent, and so that's our primary evaluation.

The conditions at both the school board property and on Levert support monitored natural attenuation, and that's an evaluation primarily done by Dr. Cooper.

- Q. So do you think it's likely that the DNR will also determine that no MNA is required on the Levert property?
- A. Yes. I fully expect the department to consider and to approve the RECAP standards. They have done so on numerous sites to where no active remediation would be necessary, but we have also included an evaluation in support that monitored natural attenuation is is a feasible option as evaluated by Dr. Cooper.
- Q. But you would expect that, as DNR did on the school board property, they will not require MNA on the Levert property, correct?

MR. TROUTMAN:

Object -- object to form.

24 THE WITNESS:

Based on my experience with the

department and the closure letters that we have produced, yes, I would think the department would consider and approve the RECAP standards in a very similar faction -- fashion for the same water-bearing zone, same constituents, same site setting as done on the school board property, yeah.

BY MR. HUDDELL:

- Q. Without MNA, correct?
- A. Without MNA, yes.
- Q. Okay. So going back to your table, we have got the DAF of 440, and then how do you get 110,000 for your limiting RECAP standard?
- A. That would simply be a result of the multiplication of the Groundwater 3 standard times the dilution and attenuation factor of 440.
- Q. Your -- your starting value of 250, that's not from the RECAP tables themselves, correct?
- A. That's correct. So RECAP handles salinity as a nontraditional parameter; and a comparative standard for that is, under our evaluation, the EPA drinking water standards.
 - Q. Okay. Well, although actually here



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it looks like maybe you were using the surface water criteria which just happened to be the same?

A. Oh, I'm sorry. Yeah. You're right. We are using surface water criteria. Thank you for drawing that to my attention.

It's the same number. Sometimes you kind of trip over it, but you can use drinking water background or surface water criteria, the three that you normally did. And under a GW-3 scenario, shallow zones, we consider the drinking water standard -- I'm sorry, the surface water criteria under the DEQ regulations because in the hypothetical scenario where you would potentially discharge into surface water, which is not here, you would want to be protective of that criteria under surface water.

- Q. Would you agree that there's -there's some hydrologic connection between the canals and the surface water and the groundwater at this site?
- A. We classified that or evaluated that as what's determined as a disconnected stream scenario. The -- the water-bearing silts within the 12- to 15-foot zone, that general depth are

beneath and deeper than the depth of the canals and so they don't have the ability to discharge into the canals.

But it is possible and likely, based on our evaluation, that the canals themselves are serving as almost like a hydraulic loading and to where they can get some seepage across the confining clays in these weathered shallow clays to serve as a -- a re-charge to these zones; but these zones are not in direct hydraulic communication nor do they have the capability of discharging into the surface water-bearing zones as defined by RECAP.

- Q. So you're saying it's not direct hydraulic communication, it is instead what?
- A. We termed it in the report as a disconnected stream scenario. So you can have a surface water body that has the potential to hydraulically load, for lack of a better term, the -- the clays and serve as a recharge to these zones within the shallow weathered soils, but that it is not in direct hydraulic communication. The silts are not touching the surface water. There's no way for it to discharge into the surface water.

And that was determined by a series of surveys by a registered land surveyor of the surface water elevation, the depth of the canals, the depth from a survey point to the silt -- water-bearing silts. Excuse me. It's been well evaluated on both sets of properties; the school board and the Levert property.

MR. HUDDELL:

I want to mark as Exhibit 7 a -- a March 31, 2016 report.

(Exhibit 7 marked and tendered.)

BY MR. HUDDELL:

- Q. Have you seen this before?
- A. Yes. This was co-authored by myself. This is the expert report, if I -- memory serves, within the school board property that was produced during litigation.
- Q. All right. And so this is just excerpted, some excerpted pages from it. I wanted to go to the third page, which is Bates labeled August Levert BP plan 3048. Do you see that?
 - A. Yes, sir.
- Q. Okay. And this is Figure 5 from your report, correct, from that report?

A. That's correct, yes.

- Q. Okay. And it appears that location SB-09, there's actually two SB-09s, but the one that -- that includes a monitoring well is right on the property boundary; is that fair?
- A. That's correct. And just to note that there is a discrepancy within the property boundary. It's determined from the topo versus the assessor's office, and so that -- that line is subject to a little bit of fluctuation; and the Levert property, we evaluated that same difference in the property boundary line.
- Q. Okay. And -- and has HET determined what -- what they think is the most appropriate or most correct property line?
- A. I don't know if we determined most correct, but we -- because of certain -- where we see the topo can change based on its -- the way that it's portrayed and pulled into the ArcGIS mapping program, we went with the assessor's office, the data. Considering I didn't want it to be overly corrected, we would default to an actual survey boundary as a term correct, but for our purposes, we used the assessor's office.
 - Q. If you wanted to determine the



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1	accurate or most accurate boundary, what what	1	you know, the depths and and survey
2	would you do?	2	locations of our wells, but we have used
3	A. I would hire a registered land	3	them before in several cases to help with
4	surveyor to do a boundary survey.	4	the actual property boundary
5	Q. Who would you recommend?	5	determination.
6		6	BY MR. HUDDELL:
-	A. There are several qualified in the	_	
7	state, I can imagine, but the surveyor that we	7	Q. Okay. But but so far at least in
8	have used with boundary discrepancies has been	8	in the school board case, you no one hired
9	M.P. Mayeaux, the same that performed the	9	a property boundary surveyor?
10	evaluation of the depths of the canals and the	10	A. Not that I'm aware of. I don't
11	surveyed locations of the monitoring wells. We	11	recall, but I don't think so.
12	use them often.	12	Q. Okay. And do you know if one's been
13	Q. What's the name of what's their	13	hired for this case?
14	name again?	14	A. Not that I'm aware
15	A. M.P. Mayeaux. It's referenced in	15	Q. Okay.
16	our report too.	16	A within the capacity of
17	MR. ARCENEAUX:	17	determining property boundary lines.
18	It's M-A-Y-E-A-U-X probably just	18	Q. Okay. Is do you know whether the
19	like it sounds, you know.	19	boundary depicted on Exhibit 7, Figure 5, the
20	THE WITNESS:	20	the east/west boundary, is that the same as what
21	I would agree with that statement.	21	you are using in your report?
22	MR. HUDDELL:	22	A. I believe so, yes.
23	Okay.	23	
24	THE WITNESS:	24	
		25	location is based right on the property boundary,
25	They not only do they perform,	25	correct?
	87		88
-		_	
1	A. That's correct.	1	THE WITNESS:
2	Q. And it's a little bit hard to read	2	It's 11,000, looks to be 600.
3	or a lot hard to read, but	3	BY MR. HUDDELL:
4	A. Yeah. Forgive the formatting of the	4	Q. Okay. And we have 24,400 milligrams
5	older tables.	5	per liter TDS, correct?
6	Q. If we if we turn to Bates number	6	A. That's correct, from what I can
7	3065 are you there?	7	tell, yes.
8	A. Yeah.	8	Q. And we have barium concentrations of
9	Q. We have groundwater data for SB-9.	9	3.31 milligrams per liter, correct?
10	Do you see that?	10	A. That's correct.
11	A. I do, yes.	11	Q. The barium exceeds the DEQ screening
12	Q. And HET found 11,800 milligrams per	12	standard for barium barium concentration,
13	kill per liter at SB-9, correct?	13	right?
14	A. Yes.	14	A. Right. Assuming a groundwater
15	Q. For chlorides, right?	15	drinking water zone which had been determined to
16	A. That's correct.	16	meet RECAP standards.
17	Q. Okay.	17	Q. Okay. And the chlorides and TDS,
18	MR. TROUTMAN:	18	those exceed the US EPA secondary drinking water
19	I think that's 600, Kevin.	19	standards, correct?
20	MR. HUDDELL:	20	A. That's correct.
20		1 20	
		21	O And this is data that HFT collected
21	Oh. 11,600.	21	Q. And this is data that HET collected in August of 2015, correct?
21 22	Oh. 11,600. THE WITNESS:	22	in August of 2015, correct?
21 22 23	Oh. 11,600. THE WITNESS: Well, I can't read it, so	22 23	in August of 2015, correct? MR. TROUTMAN:
21 22 23 24	Oh. 11,600. THE WITNESS: Well, I can't read it, so MR. HUDDELL:	22 23 24	in August of 2015, correct? MR. TROUTMAN: I think that's June, June.
21 22 23	Oh. 11,600. THE WITNESS: Well, I can't read it, so	22 23	in August of 2015, correct? MR. TROUTMAN:

conservation order that the department sent to several entities, including W&T Offshore, Houston Oil & Gas and BP.

Q. Well, let's mark that compliance order.

I believe there were three.



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MR. ARNOLD:

MR. HUDDELL:

THE WITNESS:

Approximate.

How about approximate?

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1	Q. Right. There were three, and I	1	Chapter 3 of 29-B; is that right?
2	think they all said the same thing.	2	MR. TROUTMAN:
3	MR. HUDDELL:	3	Object to the form.
4	I'm just going to mark the one that	4	THE WITNESS:
5	went to BP America Production Company.	5	Can you let me know which one you
6	Mark this as Exhibit 8.	6	are referring to, what bullet point, what
7	(Exhibit 8 marked and tendered.)	7	number?
8	BY MR. HUDDELL:	8	BY MR. HUDDELL:
9	Q. Is Exhibit 8 one of the compliance	9	Q. I'm looking at basically just
10	orders that you're referring to in your report?	10	generally 1 1 through 4.
11	A. I believe so, yes; but what was the	11	A. Okay. And can you repeat your
12	date of the report that you just referenced	12	question again? I'm sorry.
13	again? It was it postdated this letter,	13	Q. Yeah. I'll try to ask a better
14	right?	14	question.
15	Q. Yes. This this the report I'm	15	So generally there's there's
16	referring to was October 13th, 2017.	16	this is a compliance order from from the DNR
17	A. Yes. It appears to be so, yes.	17	to BP with respect to some compliance issues for
18	Q. Okay.	18	the school board property, correct?
19	A. This is one of the three	19	MR. TROUTMAN:
20	conservation orders issued post settlement to the	20	Object to form.
21	three entities that we were performing the work	21	THE WITNESS:
22	on the school board property on behalf of.	22	In general, yes. It's a
23	Q. And and this orders BP to do	23	conservation order, not a compliance
24	various things, including develop a plan to	24	order. The difference between there is
25	address certain compliance issues regarding	25	typically a conservation order doesn't
	1 0 0		J1 J
	95		96
1	have the the timeframe and penalties	1	evaluation done during litigation was the
2	associated with it that a compliance order	2	same conclusions and evaluation done as
3	does. This is issued post settlement	3	part of the post settlement obligations.
4	scenario.	4	BY MR. HUDDELL:
5	And, second, the department has	5	Q. Okay. No. 6 of the order part of it
6	asked for us to either further evaluate	6	says "The plan shall demonstrate that the
7	and/or remediate the constituents that	7	vertical and horizontal extent of all applicable
8	were exceeding Chapter 3 standards for	8	Chapter 3 parameters and/or RECAP constituents of
9	further evaluation to determine the	9	concern has been fully delineated for all
10	appropriate path toward closure.	10	impacted media and all AOIs and/or AOCs,"
11	BY MR. HUDDELL:	11	correct?
12	Q. And BP was was ordered to provide	12	A. That's correct. Yes.
13	a site investigation evaluation and/or	13	Q. Right. And as part of that, you
14	remediation plan, correct?	14	"you" being HET submitted a report dated
15	MR. TROUTMAN:	15	October 13, 2017. And, unfortunately, I don't
16	Object to form.	16	have it printed out, but I have it on the
17	THE WITNESS:	17	computer. And so
18	Yes. In general, BP and the other	18	MR. TROUTMAN:
19	entities subject to the order, separate	19	Kevin, we can we can print that
20	orders were asked to submit a site	20	for you, if you do you want to send me
21	investigation evaluation or remediation	21	the link, we can do that. We can take a
22 23	plan to the agency; and as part of the	22	brief
23 24	October document that you just referenced,	23	MR. HUDDELL:
25	we submitted a report that was very, very similar to the expert report to them. Our	24	Well. Let's see if we can get
2 9	similar to the expert report to them. Our	25	through it like this.

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1	MR. TROUTMAN:	1	MR. HUDDELL:
2	Okay. What's the Bates number on	2	Okay. John, do you want to take a
3	that?	3	look?
4	MR. HUDDELL:	4	MR. TROUTMAN:
5	Yeah.	5	Yeah. I'm pulling give me one
6	MR. ARNOLD:	6	second.
7	8047.	7	MR. HUDDELL:
8	BY MR. HUDDELL:	8	Sure.
9	Q. And so show it to you. (Tendered).	9	MR. TROUTMAN:
10	A. Right. That's the report you just	10	I'm pulling it up.
11	referenced, yes.	11	THE WITNESS:
12	Q. Okay. And if if you you can	12	There you go. (Tendered).
13	look at as much or as little of it as you want,	13	MR. HUDDELL:
14	but if you go to page 363, which is it's like	14	Oh, no. Keep it there.
15	the second to last page.	15	THE WITNESS:
16	A. Okay.	16	You want me to keep that?
17	Q. Is that a a map there?	17	MR. HUDDELL:
18	A. Yes.	18	Yeah.
19	Q. Okay.	19	MR. TROUTMAN:
20	A. This map is a demonstration of those	20 21	Yeah. Let me just
21 22	areas to which we were to conduct pit closure	22	THE WITNESS:
23	and/or soil remediation activities Q. Okay.	23	It's 8409, John. MR. TROUTMAN:
24	A as well as proposed delineation	24	Yeah. It's the one that's the March
25	borings.	25	filing. What page is the map on? I'm
2.5	oomigs.		ming. What page is the map on. Thi
	99		100
1	99 sorry.	1	A. That's correct.
1 2		1 2	
	sorry. THE WITNESS: It's page 8409 on the Bates label.		A. That's correct.
2 3 4	sorry. THE WITNESS: It's page 8409 on the Bates label. It's 363 of 365 of the October	2 3 4	A. That's correct.Q. And that was on the Levert property to the east, correct?A. That's correct, yes.
2 3 4 5	sorry. THE WITNESS: It's page 8409 on the Bates label. It's 363 of 365 of the October MR. TROUTMAN:	2 3 4 5	 A. That's correct. Q. And that was on the Levert property to the east, correct? A. That's correct, yes. Q. Do you know if that proposed boring
2 3 4 5 6	sorry. THE WITNESS: It's page 8409 on the Bates label. It's 363 of 365 of the October MR. TROUTMAN: 8409?	2 3 4 5 6	 A. That's correct. Q. And that was on the Levert property to the east, correct? A. That's correct, yes. Q. Do you know if that proposed boring was ever installed?
2 3 4 5 6 7	sorry. THE WITNESS: It's page 8409 on the Bates label. It's 363 of 365 of the October MR. TROUTMAN: 8409? THE WITNESS:	2 3 4 5 6 7	 A. That's correct. Q. And that was on the Levert property to the east, correct? A. That's correct, yes. Q. Do you know if that proposed boring was ever installed? A. It was not, no.
2 3 4 5 6 7 8	sorry. THE WITNESS: It's page 8409 on the Bates label. It's 363 of 365 of the October MR. TROUTMAN: 8409? THE WITNESS: 8409, yeah, I think. Is that an	2 3 4 5 6 7 8	A. That's correct. Q. And that was on the Levert property to the east, correct? A. That's correct, yes. Q. Do you know if that proposed boring was ever installed? A. It was not, no. Q. Why wasn't it?
2 3 4 5 6 7 8 9	sorry. THE WITNESS: It's page 8409 on the Bates label. It's 363 of 365 of the October MR. TROUTMAN: 8409? THE WITNESS: 8409, yeah, I think. Is that an 8409? Let's see.	2 3 4 5 6 7 8 9	A. That's correct. Q. And that was on the Levert property to the east, correct? A. That's correct, yes. Q. Do you know if that proposed boring was ever installed? A. It was not, no. Q. Why wasn't it? A. Well, there were several factors.
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101 102 1 1 but the property was under litigation and we started working back and forth to get that data, 2 2 brought that to the department's attention. the site had already been under lawsuit. And LT-1, if I'm not mistaken, was 3 Q. Well, so the -- the litigation 3 wasn't brought until I believe June of 2019. 4 installed in September of 2019, so our 4 5 5 A. Right. And when did we do our work? delineation assessment report was dated -- yeah. 6 Because there was -- well, first of all, this 6 Our delineation assessment report was dated March 7 plan was submitted for delineation purposes; and 7 of 2022; so by the time we finished the 8 8 delineation and got that to the department by the time you executed the agreements and were 9 9 -- and were in the field, there was a several through the iterative process of doing an 10 year delay on that field work. 10 assessment, that would post date the litigation 11 and the installation of LT-1. 11 Q. At the school board property? 12 A. At the school board property, yeah. 12 Q. Okay. So because of LT-1 being Q. Okav. 13 13 installed in 2019, you've told the agency that 14 Our delineation work -- and let's 14 you didn't need to do PB-5; is that right? 15 15 see. I don't have that in front of me right A. I don't recall specifically saying 16 offhand, but there was a -- again, between the 16 we didn't install PB-5, but -- didn't need to, 17 department approval of October late 2017 report 17 but based on our discussions with the department and to where we were doing that delineation work, 18 on the data and the status of the neighboring 18 19 19 we were actually in some instances onsite, if I property, it was determined that that was not 20 20 recall, at very similar timeframes as far as the needed to -- to evaluate and to close the 21 21 post settlement work at Iberville and the work property because of the status and assessment 22 that was -- had been started at Levert, if I 22 data that we had on Levert. 23 remember correctly. I can look up those dates 23 Q. When -- when you proposed PB-5, that 24 24 for you and get a definitive answer, but by the was to delineate the eastern boundary of

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potential groundwater contamination?

1 A. That's correct. 2 MR. TROUTMAN: 3 Object to form. 4 THE WITNESS: 5 And it was done in general as a 6 conservative nature because from the lens 7 that you're looking from at that timeframe, there were data in ICON's --8 9 even ICON's conclusion that that 10 water-bearing zone, because of the discontinuous nature and the differences 11 12 and thicknesses over the site, it actually 13 pinched out on the eastern property 14 boundary of the school board, which is the 15 northwest property of Levert; and so we 16 proposed that as a conservative nature, 17 but, again, from that timeframe, it was 18 believed that the shallow water-bearing 19 zones pinched out shortly at the property 20 line. 21 BY MR. HUDDELL: 22 Q. Okay. We also have SB-9 basically 23 on the property line that -- that had rather high 24 chloride levels, correct?

A. That's correct. And that was the

time we had started our delineation work and

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reason for the conservative depiction of the proposed location from PB-5, but it was ICON's maps and conclusions in their report for the expert report that that water-bearing zone pinched out along that property line at the time. And, again, we didn't identify any

soil data on Levert property. It was only within the saturated zone as it results to groundwater. So, in fact, that soil data from LT-1 would delineate the -- the source soils as being on the Levert property only. I'm sorry. On the school board property.

MR. HUDDELL:

Yeah. Could we attach that -- I'll send it around -- as Exhibit 9? (Exhibit 9 marked for identification.) MR. TROUTMAN: Yes. We can attach the whole report; is that okay?

MR. HUDDELL:

Sure.

MR. TROUTMAN:

Yeah.

24 BY MR. HUDDELL:

Q. Okay. We are actually getting close

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MR. TROUTMAN:

Okay.

MR. HUDDELL:

I wanted to mark this then as Exhibit 10, and another appendix from your

(Exhibit 10 marked and tendered.)

BY MR. HUDDELL:

- Q. Can you tell us what this appendix H is?
- A. Yes. These maps contained in appendix H are the soil and groundwater concentration maps styled at the request of the department to help them -- help is probably not the right term, but I'll say help -- help them graphically depict the boring locations and the data associated with it. It's a requirement for agency's submittal reports.
- Q. What areas is the first one for? This is Area 2?
 - A. Yes.
- Okay. The second one is Area 3? Q.

Q. Okay. So do you -- you think that

the chromium that was found at LT-3 was or was

A. It doesn't appear to be associated

with oilfield activity. If it was, and you would

Similarly for lead and, hell, similarly -- excuse

my language, but similarly for selenium in the

sense that selenium wasn't confirmed in either

between lab results and the difference between

the total and dissolved. I don't find those to be

the total or dissolved sample from HET. So

not associated with oilfield activity?

have found that in the dissolved sample.

24 Α. That's correct.

dissolved sample.

The third one is also Area 3?

A. That's correct. It's separated out by constituent types. Figure H-2 is a soil concentration map in limited admission Area 3 of the hydrocarbon related constituents, and Figure H-3 is the same except for metal parameters.

6 Q. Okay. If we go to the last map, 7 this is for all -- all three areas; is that 8 right?

- A. All groundwater data generated not only in the three limited admission areas but other areas, including background locations depicted by ICON on property not subject to lawsuit, but also owned by the Levert property. Note that monitoring wells were not installed at LT-6 and LT-7 because of water-bearing zone was not encountered at those locations.
- Q. Okay. So at limited admission Area 3 at LT-3, we also had exceedances of the chromium DEQ RECAP screening standard, right?
- A. We did as well as lead in the total sample and not the dissolved sample, which is an indication of the turbidity of the sample and likely associated with construction of the well into which a high turbidity resulted in sediment effecting the total number. The dissolved number

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is typically used as the most representative data 1 especially when you have turbid conditions, and 2 Figure 17. neither chromium or lead were confirmed in the 3 A. Okay.

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Q. So I want to look at Figure 17, 18 and 19. And -- and so what are these figures?

A. These are potentiometric surface or groundwater flow maps indicating the apparent trend of movement in the shallow water-bearing zone or limited lack of movement, but nonetheless, limit or lack of. Excuse me.

Q. Okay. And so for Figure 17, we have got groundwater elevations that were measured on the school board property, correct?

A. That's correct. This report was -or excuse me. This water measurement event was measured during the time of litigation and included in our expert report.

Q. And it -- it shows that there's flow from the Levert property towards the school board property, correct?

A. Well, what it's really showing is a hydraulic loading from the canals in our data. The two lowest potentiometric surface measurements were at four and five in the central portion and elevated along the -- and -- and

November report. And I wanted to look at

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constituents of concern. We did, of course, include that in our RECAP standards under the evaluation as a conservative standpoint, but in -- in general, I think that's a well construction issue or a turbidity issue.

Q. All right. Let's go back to -- I forget what exhibit it is, but it's the exhibit that has the figures from your report, your

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- adjacent to the canals and in the canals. So you see you have surface water elevations that are 3 pretty consistent at 1.9, and what we felt here was is that there was groundwater flow in the disconnected stream that we talked about from that hydraulic loading of the shallow 7 water-bearing silts from the canal. So it -- it shows -- I guess if you had to pick a direction in the southern direction, because it's showing 10 eastern on the school board property and western on Levert from that hydraulic loading.
 - Q. Well, the -- what I had trouble with was it didn't seem like you had any water elevation measurements to the east of the property out there.
 - A. Right. So what we're using -- I'm sorry. Did you finish your --
 - Q. I did.

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Okay. I'm sorry to interrupt you, A. if I did.

What we're using here is the surface water elevations measured in the canals; and the fact that the hydraulic gradient between No. 4 and 5 are identical, they are pretty much the same statistically there, and there -- what we

1 are seeing here is we are seeing that hydraulic 2 loading. And while we don't have a groundwater 3 elevation itself on Levert, it -- we opined at 4 that time that that was the hydraulic loading 5 from the canals. Each canal would serve as that 6 loading and force a flow away from the canals.

- Q. But -- but you were -- you had no data other than the -- the canal water elevation to -- to support that -- that, right?
- A. In a sense, yes. We didn't have actual measured groundwater elevation data from the Levert property, but we had both a cross section and lithologic support as well as the potentiometric data from the Iberville property in addition to the surface water that supported a general flow away from the canals at that time particular and measuring event.
 - Q. Okay. Let's go to Figure 18.
- 19 (Complied.)
 - Q. What is Figure 18 showing us?

20 21 It is showing the general groundwater flow direction that we are seeing 22 23 with additional delineation sample points 24 installed as part of the delineation sampling 25 event, which basically somewhat supports the

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previous groundwater flow event that the elevation of the -- or the potentiometric surface -- excuse me -- in monitoring wells closest to the canals are higher than what you are seeing in the central portion of the property away from the canals. Same type of scenario, just more data.

- Q. Well, MW-4 is very much in the center and MW-5, those are a lot higher than MW-3, MW-2, MW-1?
- A. That's correct. In the center portion, that MW-2 and 3, you are seeing a low
 - Q. I see what you're saying.
 - A. Uh-huh (affirmatively).
- Q. All right. But, again, we -- all right. So we don't -- we still don't have any -any -- in December of 2020, we still don't have any data from the Levert property, right?
- A. That's correct. In fact, I don't think we have data to this day, but nonetheless, as far as potentiometric surface.
 - Q. Okay. So then Exhibit 20?
 - A. I'm sorry. You are on Figure 19?
- I'm sorry. Figure 19. Q.
 - Okay.

Q. So we just did 18. Now, we are at Figure 19. This is further survey data that you did in July of this year; is that right?

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A. That's correct.

- Q. Okay. And -- and what's going on that's different in July of 2022 versus December of 2020?
- A. It's my evaluation that the data that you are seeing here is a function of some of the lowest surface water elevations that we have seen in many, many years. The lack of rainfall and the reduced surface water elevations in the area when we measured this in July, we saw what was a western trend and we didn't see as much of what I have termed in this deposition as hydraulic loading along the edges of the canals due to a change in the surface water elevation.
- Q. Did you do any connections of your elevations to account for elevated chloride levels?
- A. Normally, we do. The -- I'd have to double check, though, on this one. We have it in our report. I just don't recall right offhand. We didn't have groundwater sample data at the same time as the water level measurement event,

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so I don't think we data corrected it. Normally those flow directions are the same, the potentiometric surface may be different, but the overall flow direction remains the same.

Let's see here. I can get you that answer, but from what I recall right now in working to develop these maps, that we didn't data correct every one of them because we hadn't had -- we did not have -- excuse me -- groundwater data from each event from the school board property; but, again, data correction, in our experience, has rarely changed the overall flow direction.

- Q. I don't recall. What is the -- what is the bias, if you have -- if you don't correct, is it going to be -- and you've got higher chloride concentration, is it going to be overly elevated or overly -- or is it going to -- is it going to be higher or lower than it should be.
- A. It's my recollection that you would end up with -- if you had a higher chloride density, that it would depress the water level.
 - Q. Okay.

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- A. Uh-huh (affirmatively).
 - Q. Could that possibly account for the

-- the 2000 -- 2015 and 2020 contours of the -- of the potentiometric data in that -- in that you've got this, I guess, maybe artificially low measurement in the center of where the highest chloride concentration is?

A. I don't believe so, because we have evaluated the groundwater flow both on density corrective and nondensity corrective data both on school board property and Levert.

The difference was is that we didn't have chloride data from the same exact time of each measurement event, and so I can get you that answer as to whether each map is data corrective or only some were data corrective. I don't -- I looked at the text of the report and I don't find it clear enough to answer that right now, but I could get that answer for you.

- Q. Okay. Are you concerned at all that DNR is going to want more potentiometric data from the Levert property itself?
- 21 A. No. The --
 - Q. Okay. Why?
- 23 A. I'm not.
- Q. Why do you think that's not a concern?

- A. Because I think this site has been evaluated and assessed for several years, and I think that the groundwater flow that has been determined from Iberville -- I'll just start calling it the school board property -- the school board property is sufficient for our evaluation.
- Q. Okay. Are you -- do you feel confident that DNR's not going to require any additional soil or groundwater delineation?
- A. I feel confident in that, yes. I think the data clearly demonstrate that the soil concentrations have been fully horizontally and vertically delineated. The groundwater concentrations are delineated for the several purposes that we talked a moment ago as far as using the GEM data, the discontinuous nature, the fact that several -- two at least of the borings installed by ICON didn't make water, I feel confident in that.

And the groundwater flow, in my opinion, has been heavily studied; and since there are no downgradient surface water bodies capable of receiving discharge, I don't see that to be a limiting factor in our overall assessment

of groundwater conditions.

- Q. Is your expert report at all -- not expert report. Your limited admission plan, is it -- is it -- does it rely at all on ICON's data?
- A. Oh, absolutely. We take every bit of data into consideration, including the split sample results, their groundwater sample results. We -- we've incorporated all data into our evaluation.
- Q. Okay. Does it -- does your plan at all rely on any of the opinions that ICON expresses in its expert report?
 - A. Not that I'm aware.
 - O. Okav.
- A. Again, we take into consideration all data generated, but the conclusions, evaluation and opinions would be listed in our report.
 - Q. Okay. So --
- A. I guess the -- in general, we relied in part on the their data from their slug tests, but that was our own conclusion based on that data, for instance.
 - O. Yeah. That's the distinction I was

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Pages 113 to 116

117 118 1 trying to make here. You are relying on ICON's 1 Q. Mr. Pooler, is it your opinion that 2 2 data as -- as part of the whole data set, the constituents in the groundwater at the school 3 3 correct? board property are continuing to migrate onto the 4 A. That's correct. 4 Levert property? 5 5 Q. But you're not relying on any A. No, it's not. Based on groundwater 6 opinions that -- that ICON has with respect to 6 flow directions and the overall limited movement 7 that data, correct? 7 within the zone now, the -- the source has been 8 A. No, not that I can think of. 8 closed. I don't see that to be the case. 9 MR. HUDDELL: 9 O. To the extent that it -- it -- well, 10 Okay. Can we take a five-minute 10 it did migrate sometime in the past, correct? 11 break, and I think --11 A. Based on the data, apparently. MR. TROUTMAN: 12 Probably a hydraulic loading scenario, but yes. 12 13 Q. Do you know when it would have no 13 Sure. 14 MR. HUDDELL: 14 longer have migrated onto the Levert property? 15 -- we might be able to wrap up very, 15 A. I don't have a date, but certainly 16 definitively by operations, close of operations, 16 very quickly. 17 but possibly even before then. I don't know. I 17 MR. TROUTMAN: Sounds good. 18 don't have the answer to that. 18 19 19 THE VIDEOGRAPHER: Q. Okay. The -- the movement of the 20 20 groundwater constituents to the east onto the We are off the record. 12:08 p.m. 21 Levert property would have been a result of the 21 (A short recess was taken.) THE VIDEOGRAPHER: 22 22 concentration gradient; is that -- rather than 23 23 We are back on the record. the groundwater flow? 24 12:17 p.m. 24 A. Typically if you're -- you know, the 25 BY MR. HUDDELL: 25 pits are active and you have a hydraulic loading 119 120 scenario, then it will go into the groundwater or 1 A. Very, yes. The hydraulic gradient 1 2 the water-bearing zone and -- and load up that 2 between the wells and the overall rate of 3 zone potentially, but once that source is 3 movement that we calculated as part of the slug 4 4 stopped, then the predominant natural groundwater test evaluation or aquifer test evaluation is flow that is effected by the canals would resume. 5 5 very, very limited. 6 6 Q. So the flow would have been -- back Q. Okay. 7 7 when the pit was being used, the flow would have A. Especially also in consideration, been as a result of the -- the groundwater flow 8 not only do these zones just not transit that 8 9 9 direction and the concentration gradient; is that much, which also makes it unfeasible to do a pump 10 right? 10 and treat system, but these zones have been Not necessarily the concentration 11 determined to be discontinuous. 11 12 12

gradient, but the -- the use of the pit itself can alter the flow because of the -- the 13 concentrations of chloride being effected in a 14 down -- downward loading from the pit itself. So 1.5 not necessarily from the concentration gradient, 16 but from a hydraulic loading scenario on the use 17 of the pits. Similar but a slight difference. 18

- Q. Okay. The use of the pit would have changed the groundwater flow direction?
 - A. Potentially.

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Q. Okay. You also said there's not -there's not much movement, so to the extent that there is groundwater flow, it's -- it's slow; is that what you're saying?

- Q. Okay. Do you think that the groundwater constituents of concern on the Levert property are migrating to any significant extent?
 - A. No.
- Q. They are basically just staying there not moving much at all; is that right?
 - A. Very little movement, yes.
- Okay. Would you agree that your limited admission plan is not designed to return the property to its original company?

MR. TROUTMAN:

23 Object to form. 24

THE WITNESS:

Well, to the extent that calls for a

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1	legal definition of original condition,	1	concentrations.
2	but I would argue that our plan the	2	Our plan is from the RECAP side
3	property itself is serving as in its	3	is not designed to from that aspect, it
4	original condition, and our plan enhances	4	determines, again, no active remediation and the
5	that through the the pit closure	5	background is not the standard, but in an overall
6	activities.	6	sense, that doesn't effect the overall use or
7	The property can be utilized for its	7	or original conditions of the property in our
8	intended purposes. It functions in its	8	opinion.
9	original condition, the esthetics of the	9	Q. I understand that. I just want to
10	property are serve in its original	10	make sure that your limited admission plan is not
11	form. The property itself is serving as	11	designed to return the groundwater back to its
12	it in its original condition as it is	12	natural background condition?
13	now.	13	MR. TROUTMAN:
14	BY MR. HUDDELL:	14	Object to form.
15	Q. Would you agree that the groundwater	15	THE WITNESS:
16	constituents of certain at the Levert property	16	I guess the same answer that I gave
17	will not be reduced to the natural background	17	to you a minute ago. Again, while we are
18	condition under your plan?	18	primarily evaluating RECAP standards which
19	A. Well, we talked about that a minute	19	determine no active remediation is
20	ago. Our plan, certainly while it takes a	20	necessary, over time under a natural
21	primary evaluation of RECAP standards to	21	attenuation process, this will continue to
22	determine that no standards are I mean, no	22	reduce in concentrations as further
23	active remediation is necessary, over time, this	23	evaluated by Dr. Cooper.
24	is going to continue to freshen and and	24	BY MR. HUDDELL:
25	continue to freshen or reduce in constituent	25	Q. Do you in order to your goal
	continue to medicin of reduce in constituent		Ç , , g
	123		124
1		1	
1 2	is to have the DNR approve your limited admission	1 2	THE WITNESS:
2	is to have the DNR approve your limited admission plan as the most feasible plan, correct?	2	THE WITNESS: No. Our plans have been consistent
2	is to have the DNR approve your limited admission plan as the most feasible plan, correct? MR. TROUTMAN:	2 3	THE WITNESS: No. Our plans have been consistent throughout litigation, post settlement.
2 3 4	is to have the DNR approve your limited admission plan as the most feasible plan, correct? MR. TROUTMAN: Object to form.	2 3 4	THE WITNESS: No. Our plans have been consistent throughout litigation, post settlement. Whether it's even in litigation, our
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POOLER, BRENT 11/21/2022

	125	126
1	anticipate needing to do any more work to develop	1 CORRECTION SHEET
2	your expert report?	2
3	A. At this time, no.	3 PAGE LINE DESCRIPTION
4	Q. Okay. If if you're if the DNR	4
5	doesn't require MNA, would you agree that upon	5
6	completion of your feasible plan there will still	6
7	be oilfield constituents in the groundwater above	7 8
8 9	natural background? MR. TROUTMAN:	9
10	Object to form.	10
11	THE WITNESS:	11
12	I think that's more of a question	12
13	for Dr. Cooper. He's done more of that	13
14	evaluation than I have.	14
15	MR. HUDDELL:	15
16	Okay. That's all the questions I	16
17	have.	17
18	MR. TROUTMAN:	18
19	No questions?	19
20	THE VIDEOGRAPHER:	20 WITNESS: BRENT POOLER
21	This concludes the deposition. We	21 TAKEN ON: NOVEMBER 21, 2022 22 BY: CHERIE' E. WHITE, CCR (LA NO. 96002)
22 23	are off the record. 12:28 p.m.	22 BY: CHERIE' E. WHITE, CCR (LA NO. 96002) 23 CSR (TX NO 10720)
24		24 CSR (MS NO. 1514)
25		25 RPR (NATIONAL NO. 839452)
		(
	127	128
1	WITNESS CERTIFICATE	1 REPORTER'S PAGE
2		2 I, CHERIE' E. WHITE, Certified Court
3		Reporter, in and for the State of Louisiana, the
4	I, BRENT POOLER, do hereby certify that the	4 officer, as defined in Rule 28 of the Federal
5 6	foregoing testimony was given by me, and the	5 Rules of Civil Procedure and/or Article 1434(B) 6 of the Louisiana Code of Civil Procedure, before
7	transcription of said testimony, with corrections and/or changes, if any, is true and correct as	of the Louisiana Code of Civil Procedure, before whom this sworn testimony was taken, do hereby
8	given by me on the aforementioned date.	8 state on the record;
9	given by the on the distributioned date.	9 That due to the interaction in the
10		10 spontaneous discourse of this proceeding, dashes
11		11 () have been used to indicate pauses, changes
12		in thought, and/or talkovers; that same is the
13		
	DATE SIGNED (Witness' Signature)	13 proper method for the court reporter's
14	DATE SIGNED (Witness' Signature)	14 transcription of a proceeding, and that dashes
14 15	DATE SIGNED (Witness' Signature)	 14 transcription of a proceeding, and that dashes 15 () do not indicate that words or phrases have
14 15 16	, g	 transcription of a proceeding, and that dashes () do not indicate that words or phrases have been left out of this transcript; also, that any
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14 15 16 17 18 19 20 21 22 23	Signed with corrections as noted. Signed with no corrections as noted.	transcription of a proceeding, and that dashes () do not indicate that words or phrases have been left out of this transcript; also, that any words and/or names which could not be verified through reference material have been denoted with the phrase "(spelled phonetically)." CHERIE' E. WHITE, CCR (LA NO. 96002) CSR (TX NO 10720)





	129	
1	REPORTER'S CERTIFICATE	
2	KLI OKILK S CLKIII ICAIL	
	This contification is valid only for a	
3	This certification is valid only for a	
4	transcript accompanied by my original signature	
5	and original seal on this page.	
6	I, CHERIE' E. WHITE, Certified Court	
7	Reporter, in and for the State of Louisiana, do	
8	hereby certify that Brent Pooler, to whom the	
9	oath was administered, after having been duly	
10	sworn by me upon authority of R.S. 37:2554, did	
11	testify as hereinbefore set forth in the	
12	foregoing 129 pages; that this testimony was	
13	reported by me in the stenotype reporting method,	
14	was prepared and transcribed by me or under my	
15	personal direction and supervision, and is a true	
16	and correct transcript to the best of my ability	
17	and understanding; that I am not related to	
18	counsel or the parties herein, nor am I otherwise	
19	interested in the outcome of this matter.	
20	microsted in the outcome of this matter.	
21		
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22	CHERIE' E. WHITE, CCR (LA NO. 96002)	
23	CSR (TX NO. 10720)	
24	CSR (MS NO. 1514)	
25	RPR (NATIONAL NO. 839452)	



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