	Page 1
BEFORE 1	THE
ILLINOIS POLLUTION	CONTROL BOARD
BRIMFIELD AUTO & TRUCK, Petitioner)))
-vs-) DOCKET PCB 12-134
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, Respondent.)))

Hearing held, pursuant to notice, on Tuesday,
April 22, 2014, at the hour of 12:30 p.m. at 1021 N.
Grand Avenue East, Springfield, Illinois, before
CAROL WEBB, duly appointed Hearing Officer.

L.A. REPORTING SERVICE (312)419-9292

REPORTER: LAUREL A. PATKES, CSR #084-001340

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2	NAT TRANSPORT		apo a a		DECEDOGG
3	WITNESS	DIRECT	CROSS	REDIRECT	RECROSS
4	ALLEN GREEN By Mr. Riffle	7			
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1	HEARING OFFICER WEBB: Good
2	afternoon. My name is Carol Webb. This is the
3	hearing for PCB 12-134, Brimfield Auto & Truck
4	versus IEPA.
5	It is April 22nd, and we are
6	beginning at 12:30 p.m.
7	For the record, although this
8	facility is located in Peoria County, there was no
9	known public interest in this case so I granted the
10	parties' request to hold the hearing in Springfield.
11	There are no members of the
12	public present although we do have Connie Newman
13	here who is the Board's public information officer.
14	At issue in this case is the
15	site investigation plan budget for a facility
16	located at 408 East Knoxville Road in Brimfield.
17	The Pollution Control Board
18	members will make the final decision in this case.
19	My purpose is to conduct the hearing in a neutral
20	and orderly manner so we have a clear record of this
21	proceeding.
22	This hearing was noticed
23	pursuant to the act in the Board's rules and will be
24	conducted pursuant to Sections 101.600 through

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1	101.632 of the Board's procedural rules.
2	At this time I'll ask the
3	parties to please make their appearances on the
4	record.
5	MR. RIFFLE: Good morning.
6	Robert Riffle on behalf of the
7	petitioner.
8	MR. SIEVERS: Scott Sievers on behalf
9	of the respondent.
10	HEARING OFFICER WEBB: Thank you.
11	Before we begin, I would like to
12	address the motion for leave to supplement the
13	administrative record which I understand is
14	unopposed by the petitioner.
15	The motion is granted.
16	Would petitioner like to make an
17	opening statement?
18	MR. RIFFLE: Yes, please.
19	The granting of that motion and
20	that document that is attached to it actually
21	resolves a part of this appeal, and we will
22	stipulate to the applicability of those
23	reimbursement rates so that at least a part of the
24	appeal was now moot or rendered moot by that.

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1	I think the sole issue remaining
2	in the case relates to the depth of monitoring wells
3	and sampling, and so this is now a very streamlined
4	appeal, and the amount of controversy is relatively
5	small so that we can expedite things for this
6	particular appeal pretty quickly.
7	So with that, that's all the
8	opening comments I have.
9	HEARING OFFICER WEBB: Okay.
10	Mr. Sievers, would you like to
11	make any opening statement?
12	MR. SIEVERS: No. No thank you.
13	HEARING OFFICER WEBB: All right.
14	You may call your first witness.
15	MR. RIFFLE: Yes. I would call Al
16	Green.
17	HEARING OFFICER WEBB: All right.
18	Would the court reporter please swear in the
19	witness?
20	(Whereupon the witness was sworn
21	by the reporter.)
22	
23	
24	

	Page 7
1	ALLEN GREEN
2	called as a witness herein, on behalf of the
3	Petitioner, having been first duly sworn on his
4	oath, was examined and testified as follows:
5	
6	DIRECT EXAMINATION
7	BY MR. RIFFLE:
8	Q. Mr. Green, please state your name for
9	the record.
10	A. Allen Green.
11	Q. And what is your current occupation?
12	A. I'm president of Midwest
13	Environmental Consulting and Remediation Services.
14	Q. Did you have occasion in that
15	capacity to work for a customer called Brimfield
16	Auto & Truck?
17	A. Yes.
18	Q. And what was the nature of that
19	project?
20	A. It was an existing leaking
21	underground storage tank site that we were asked to
22	take and see to completion as far as the
23	environmental closure of the existing incident.
24	Q. Okay. So you were coming in after

	Page 8
1	somebody had already done some work on that project?
2	A. Yes.
3	Q. Okay. And did you do some drilling
4	and sampling at that property?
5	A. Yes.
6	Q. And just briefly describe the nature
7	of that drilling and sampling.
8	A. We did what was called a Stage I
9	investigation which was preliminary borings and, if
10	required, in this case it did, monitoring wells to
11	initiate the corrective action if required on this
12	particular site. It's a preliminary investigation.
13	Q. Are you familiar with the petition
14	for review and hearing which was filed for this
15	particular case?
16	A. Yes.
17	Q. If I understand correctly from the
18	exhibits to the petition for review and hearing, you
19	sought in a budget eligibility for reimbursement for
20	drilling down to 125 feet and for monitoring and
21	recovery wells down to a hundred feet, is that
22	correct?
23	A. Yes.
24	Q. And can you explain to the hearing

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officer why those depths were chosen?

2.1

A. Basically, we're either required to drill to a certain depth below the bottom invert of the underground storage tanks or groundwater if it's obvious, groundwater bearing strata, or an impermeable strata that we feel, you know, would impede the migration contamination from the site.

So basically, this was to get a feel for the geology of the site and try to determine if further investigation would be warranted or if the contamination levels, the geology was such that we could close the incident.

- Q. Okay. And if I understand correctly,
 Exhibit B to the petition is the letter received
 from the Illinois Environmental Protection Agency
 which modified the proposed budget, is that correct?
 - A. Yes.
- Q. And as an exhibit to Exhibit B, it's actually called Attachment A, can you review that document and explain your understanding of the modifications with respect to the depths of the monitoring wells and sampling?
- A. The depth of the monitoring wells or the borings and then the installation of the

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1	monitoring wells was modified to a lower level than
2	what we had done on the site based upon, according
3	to letter, the groundwater levels encountered on the
4	site.
5	Q. Okay. And do you believe that the
6	depths that you requested in the budget were proper?
7	A. Yes.
8	Q. And can you explain for the record
9	why you think they were proper?
10	A. Without something very obvious on the
11	site as far as the geology or groundwater levels
12	during a Stage I which is the initial investigation,
13	we don't know where the groundwater levels are at
14	until we install monitoring wells and determine what
15	the groundwater levels are.
16	Q. Have you encountered this issue with
17	other projects that you've worked on?
18	A. A few times.
19	Q. And what has been the resolution of
20	that issue on those other projects?
21	A. It's been resolved in that basically
22	they acknowledge the fact that until you complete
23	the Stage I, as long as it's within reason, the
24	number of borings, wells, in the Stage I, as long as

	Page 11
1	the numbers are within reason, we've been told that
2	it's acceptable to, you know, determine your
3	groundwater levels based upon the results of your
4	Stage I.
5	Q. Okay. Are their particular project
6	managers that have made that concession to you?
7	A. Yes.
8	Q. And who are those project managers?
9	A. I mean, I can't say exactly but
10	there's probably three or four of them that we've
11	had that issue.
12	Normally the issue doesn't come
13	up, but three or four times it's come up, and once
14	we've talked to the project manager, then it's been
15	resolved, and it's being addressed in Stage II. We
16	know where the groundwater levels are at so,
17	therefore, if you're going out in a Stage II
18	investigation, then you can adjust your depths
19	accordingly.
20	Q. So for purposes of Stage I, you think
21	that those steps that you've budgeted are
22	appropriate?
23	A. Yes.
24	Q. And you've encountered this issue

•	Page 12
1	before on other projects, and it's been resolved in
2	favor of approving those depths that you sought in
3	connection with this project?
4	A. Yes.
5	MR. SIEVERS: Objection. Leading.
6	HEARING OFFICER WEBB: I'll allow it.
7	MR. RIFFLE: He's already answered
8	so
9	No further questions. Thank
10	you.
11	MR. SIEVERS: I don't have any
12	questions for you, Mr. Green.
13	HEARING OFFICER WEBB: Okay. Thank
14	you, Mr. Green.
15	(Witness excused.)
16	HEARING OFFICER WEBB: Mr. Riffle, do
17	you have anything else you'd like to present here
18	today?
19	MR. RIFFLE: I don't. We rest.
20	HEARING OFFICER WEBB: Is this your
21	witness?
22	MR. SIEVERS: It is, Your Honor.
23	The respondent calls Harry
24	Chappel.

Page 13 1 HEARING OFFICER WEBB: Mr. Chappel, 2 if you wouldn't mind sitting over there. 3 Would the court reporter please 4 swear in the witness? 5 (Whereupon the witness was sworn 6 by the reporter.) 7 HARRY CHAPPEL 8 9 called as a witness herein, on behalf of the 10 Respondent, having been first duly sworn on his 11 oath, was examined and testified as follows: 12 13 DIRECT EXAMINATION 14 BY MR. SIEVERS: 15 Will you state your name and spell it Q. 16 for the court reporter? 17 Α. Harry Chappel, C-h-a-p-p-e-l. 18 Q. Mr. Chappel, are you employed? 19 Α. Yes. 2.0 Where are you employed? Q. 2.1 Illinois EPA. Α. 22 And what's your position? Q. 23 Unit manager, Leaking Underground Α. 24 Storage Tank Section, Bureau of Land.

	Page 14
1	Q. How long have you been employed at
2	the Illinois EPA?
3	A. I think for a total of just over 31
4	years.
5	Q. Is that continuous?
6	A. No.
7	Q. Why not?
8	A. I spent five years in private
9	practice and then came back to the Agency in '95.
10	Q. What do you mean by private practice?
11	A. Consulting, a consulting firm here in
12	Springfield.
13	Q. Environmental Consulting?
14	A. Yes.
15	Q. How much of the time when you've been
16	employed at Illinois EPA have you worked with
17	leaking underground storage tank issues?
18	A. From '91 to '94 when I left and then
19	ever since I came back.
20	Do you have a copy of my resume
21	that I gave you? I can tell you exactly from that.
22	I'm not sure of the dates but
23	Q. Your estimate is sufficient.
24	A. Four years plus eight; maybe

		Page 15
1	eleven/twelve	years since I came back.
2	Q.	What's your highest level of
3	education?	
4	Α.	Master's.
5	Q.	In what?
6	Α.	Thermal and environmental
7	engineering.	
8	Q.	Do you have a bachelor's degree then?
9	Α.	Yes, I do.
10	Q.	And what is that in?
11	Α.	Civil engineering.
12	Q.	Are you a professional engineer?
13	Α.	Yes, I am, in Illinois.
14	Q.	All right. In your experience in the
15	Leaking Underg	round Storage Tank Unit, are you
16	experienced re	viewing budgets?
17	Α.	Yes.
18	Q.	Experienced reviewing plans?
19	Α.	Yes.
20	Q.	Mr. Chappel, I'm handing you what has
21	been previousl	y marked as Exhibit A.
22		Do you recognize Exhibit A?
23	Α.	Yes. It's the letter I wrote in
24	April of 2012.	

	Page 16
1	Q. So do you recognize Exhibit A then to
2	be Illinois EPA's decision letter in this matter?
3	A. It's the second decision. We had
4	made a previous decision.
5	Q. Was this the most recent decision
6	then?
7	A. Well, I don't know what's happened
8	since this letter I believe. I believe there's been
9	other activities at this site, and there have been
10	others letters since then but I'm not familiar with
11	them directly.
12	Q. So Exhibit A then, would this be your
13	most recent decision letter?
14	A. Yes.
15	Q. Now I'm handing you what has been
16	previously marked as Exhibit B.
17	Do you recognize Exhibit B?
18	A. Yes.
19	Q. And what do you recognize Exhibit B
20	to be?
21	A. This was a letter, yes, a letter in
22	response to our original denial of the plan and
23	budget requesting a reconsideration.
24	Q. Now, Exhibit A, your letter, was that

		Page 17
1	in response to	Exhibit B?
2	Α.	Yes.
3	Q.	I'm handing you what has been
4	previously mar	ked as Exhibit C.
5		Do you recognize Exhibit C?
6	Α.	Yes.
7	Q.	What do you recognize Exhibit C to
8	be?	
9	Α.	It's the original letter in August of
10	2011 that I se	nt on the initial submittal for this
11	facility.	
12	Q.	Okay. Now I'm handing you what has
13	been previousl	y marked as Exhibit D.
14		Do you recognize Exhibit D?
15	Α.	Yes. This is the original submittal
16	for the facili	ty that was dated May 12 of '11 which
17	resulted in my	Exhibit C response.
18	Q.	So Exhibit D gets denied in Exhibit
19	C.	
20	Α.	Correct.
21	Q.	And then the petitioner seeks
22	reconsideratio	n in Exhibit B?
23	Α.	Correct.
24	Q.	And you reconsider it in Exhibit A

		Page 18
1	and modify it?	
2	А.	Correct.
3	Q.	Thank you.
4		I'm handing you what has been
5	previously mark	ked as Exhibit E.
6		Do you recognize Exhibit E?
7	Α.	Yes.
8	Q.	What do you recognize Exhibit E to
9	be?	
10	Α.	These are my review notes based on
11	Exhibit B subm	ittal, reconsideration.
12	Q.	Okay. Now, I call your attention to
13	the bottom of I	Exhibit E. There's a portion that
14	says analytical	l borings, soil samples.
15		Can you explain what those
16	notations mean	?
17	Α.	You'll see listed the five monitoring
18	wells that were	e included in the submittal. The DTW
19	stands for dept	th to water on each of those borings,
20	and they all ed	qual nine feet, and the 3, 2, 3, 2, 2
21	as you read dow	wn for BTEX and PNA were soil samples
22	collected below	w that depth to water in each of those
23	monitoring well	ls.
24	Q.	Okay. And how many did you determine

		Page 19
1	here were take	n below that depth to water?
2	Α.	12.
3	Q.	Now, how did you determine the depth
4	to water in Ex	hibit E?
5	Α.	It's based on the boring logs that
6	were contained	in Exhibit D.
7	Q.	Let me call your attention to Bates
8	pages 77 throu	gh 82 of Exhibit D.
9	Α.	Okay.
10	Q.	Are those the boring logs to which
11	you just refer	red?
12	Α.	Yes.
13	Q.	And is there a boring log for each of
14	the five monit	oring wells?
15	Α.	Yes.
16	Q.	Do they all state that the depth well
17	drilling is ni	ne feet?
18	Α.	Yes.
19	Q.	What does that mean?
20	Α.	That's the depth to water while they
21	were drilling	the borings, depth to groundwater.
22	Q.	Now, there's a statement afterwards
23	depth after dr	illing.
24		What does that mean?

Page 20

- 1 I would assume that would be the Α. 2 groundwater level recovered in the boring or well 3 after it was drilled. 4 So those boring logs I just called 0. 5 your attention to, those were the basis for your 6 calculation of the depth to water figure of nine 7 feet? 8 Α. Correct. 9 Q. Now I'm going to call your attention 10 to page 2 of Exhibit E. 11 Now, at the top of that page it 12 says drilling and drilling depth. There's five 13 lines there. 14 What do those notations indicate 15 or what do they mean? 16 Once again, the five wells are Α.
 - A. Once again, the five wells are listed, monitoring well 1 through 5. The total depth, Exhibit D, indicates that they were drilled. It indicates the depth to water on the boring logs and the addition of six feet for the installation of the monitoring well for a total depth of whatever that total is, 75 feet, five wells 15 feet 75 foot depth.

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Q. There's a column there that says 26,

Page 21

1	20		22		28		22	
_	20	,	~~	,	20	,	~~	•

2.1

What do you understand that to mean?

- A. Those are the depths that the borings in Exhibit E indicate they were drilled to, Exhibit D. I'm sorry. It indicates what those borings were drilled to, total depth.
- Q. And in the right-hand corner there's a column that says deduct. What did you mean by deduct?
- A. That's just the total depth they were drilled to minus the 15 feet that was allowed which leaves the deduction of 11 feet on the first one, and then each one is different.
- Q. 15 feet allowed. Now, why -- is the depth to water figure of nine feet significant in your calculation?
 - A. Yes.
 - Q. Why?
- A. That's the depth to which the borings should have stopped had they not been installed as monitoring wells. If they'd just been soil borings, they would have stopped at the depth to water, nine feet.

Page 22 1 Okay. But they were used as 0. 2 monitoring wells, correct? 3 Α. Yes. 4 So could they go deeper than that? 0. I allowed an extra six feet for each 5 Α. 6 for the depth below the water table. Obviously, a 7 well above the water table doesn't do you much good so I allowed six feet below. 8 9 Q. How did you arrive at that six foot 10 figure? 11 Normally I would have used a five 12 foot number because most screens are ten feet, and 13 we try to allow for five feet above the depth to 14 water and five feet below the depth to water to take into account groundwater fluctuations for the years 15 the wells are there. 16 17 In this case rather than just 18 allow five feet, I rounded it off and made it six 19 feet to come up with an even 15-foot depth for each 20 boring. 2.1 Q. This screen, describe the screen 22 you're talking about. 23 The screen is the open portion of a Α. 24 monitoring well where the groundwater infiltrates

	Page 23
1	into the well where you can take your samples.
2	Q. I'm handing you what has been
3	previously marked as Exhibit F. Take a moment to
4	review Exhibit F. Let me know when you're done.
5	A. These are the Stage I requirements in
6	734. I would assume that they're up-to-date.
7	Q. Now I'm going to call your attention
8	to did you understand this submittal to be a
9	Stage I submittal?
L O	A. No.
1	Q. Why not?
L2	A. Because there was no submission of a
13	45-day early action report. I considered this to be
L 4	an early action report.
15	Q. Okay. But now, this reg in Exhibit
16	F, I'll call your attention to Subpart A(1)(a), the
L 7	last sentence of that.
8 .	Do you see that provision?
9	A. Yes.
20	Q. The borings must be advanced through
21	the entire vertical extent of contamination, based
22	upon field observations and field screening for
23	organic vapors, provided that borings must be
24	drilled below the groundwater table only if

24

	Page 24
1	site-specific conditions warrant."
2	Did you rely upon that in
3	determining that drilling should not go below the
4	depth of the water?
5	A. No, I think I relied on the early
6	well, let me back up.
7	You have to take into account
8	you have early action under 734.210(h) which are
9	supposed to be completed first.
10	Stage I is then completed based
11	on the results of the 210(h) requirements.
12	In this case, we didn't have any
13	210(h) requirements. They weren't put in the
14	report.
15	So that is why my original
16	denial was sent is because the 210(h) requirements
17	had not been complied with.
18	Subsequent to that, there was a
19	phone call between Mr. Green and Hernando
20	Albarracin, the section manager, which resulted in
21	the reconsideration letter of Exhibit B.
22	Hernando had a discussion with
23	me. He said, are there any of these borings or the
24	work that had been done that we could consider

	Page 25
1	useful as an early action investigation.
2	Now, as I recall, in this case,
3	the early action excavation samples, sidewall and
4	bottom, were not collected. Therefore, in order to
5	consider these borings, I had to look at the 210(h)
6	I believe (2) requirements which were for tanks that
7	remain in place when you take borings around the
8	tanks to determine the entire vertical extent, and I
9	believe those are limited to the depth to water
10	also.
11	So that's what I would have
12	relied on at this time. I did not consider them
13	Stage I.
14	Q. Okay. It's your understanding that
15	the regulations limit drilling to the depth to
16	water?
17	A. During the initial stages, yes.
18	Q. Okay. And you think that would be
19	applicable to Exhibit D that was submitted by the
20	petitioner here?
21	A. Correct.
22	Q. I'm going to hand you what has been
23	previously marked as Exhibit G.
24	Do you recognize Exhibit G?

	Page 26
1	A. Yes. I believe this is the 734
2	requirements allowing for us to increase the maximum
3	payment amounts in subpart (h) on an annual basis.
4	Q. Did you rely upon Exhibit G for
5	determining the appropriate dollar figures that you
6	calculated in your notes?
7	A. I relied on the maximum amounts
8	derived from Exhibit G for the period when the work
9	was conducted.
10	Q. Okay. Now I'm handing you what has
11	previously been marked as Exhibit H.
12	For the hearing officer's
13	benefit, this is the part that was admitted outside
14	of the hearing.
15	Mr. Chappel, do you recognize
16	Exhibit H?
17	A. Yes.
18	Q. What do you recognize Exhibit H to
19	be?
20	A. I believe these are the maximum
21	payment amounts that were in effect at the time the
22	work on the subject site, or when the work was done
23	that I was reviewing.
24	Q. And so you relied upon those figures

	Page 27
1	in Exhibit H in making your calculations in Exhibit
2	E, would that be correct, in your notes?
3	A. I believe so, yes.
4	Q. And in reaching your decision in
5	Exhibit A?
6	A. Yes.
7	Q. Now, calling your attention back to
8	Exhibit E, would it be correct then that you
9	determined when you took the depth to water for each
10	of the five monitoring wells as nine feet and then
11	added six feet to allow for the screen that you
12	allowed for each well to be a total of 15 feet deep?
13	A. Correct.
14	Q. And so you allowed for a total of
15	75 feet with the wells?
16	A. Correct.
17	Q. And then from those depths you
18	multiplied out the various costs they were seeking,
19	correct, or reimbursements they were seeking?
20	A. The maximum payment amounts for the
21	period of time for which the work was done which is
22	Exhibit H.
23	Q. So the reduction as to I'm sorry.
24	Let me call your attention to the last page of

	Page 28
1	Exhibit A.
2	Do you see the Section 2 Stage I
3	modifications?
4	A. Yes.
5	Q. Now, in both parts 1 and 2 there, I'm
6	sorry, in Part 1, it speaks of 75 feet of drilling.
7	Is that 75 feet you calculated
8	in Exhibit E as being inappropriate for the
9	A. Yes.
10	Q. And the rates for drilling and the
11	rates for monitoring wells, those were derived from
12	Exhibit H, is that correct?
13	A. Well, the drilling rates and the
14	monitoring rates both came from Exhibit H.
15	Q. And it's your view, it's your
16	understanding of the regulations that you're not
17	supposed to drill below the depth to water?
18	A. Correct.
19	Q. And what is the idea behind that?
20	A. Well, the depth to water, once you
21	have achieved the depth to water, anything below
22	that is a groundwater issue.
23	You have a soil regime, and you
24	have a groundwater regime under the regulations.

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Once you've reached the depth to groundwater, it becomes a groundwater issue, and 734 specifically indicates there must be some indicator of soil in contact with contaminated groundwater before you even look at the groundwater regime. Therefore, the regulations say during early action, you only drill the borings to a depth to groundwater, or some kind of obstruction if you run into it, but it's the depth to groundwater is where you stop.

Those samples then indicate to you whether you have contaminated soil in contact with groundwater.

Q. Now, on page 3 of Exhibit E, it says analytical.

Do you see that?

A. Yes.

2.1

Q. And it says BTEX soil, 22 requested, 10 allowed.

How did you reach those figures?

A. Well, if you look on that same exhibit, if you look at the first page, page 171 of the record, there was a total of 12 BTEX and PNA samples below nine feet. Out of the five borings, there were a total of 12 that were below that depth

	Page 30
1	of nine foot.
2	So 12 minus 22 gives you the 10
3	that were above the depth to water well drilling.
4	Q. You mean 22 minus 12?
5	A. Yeah, 22 minus 12. Ten was what was
6	allowed. Right.
7	Q. Okay. So the 12 that were the 22
8	requested included 10 you allowed and 12 that you
9	disallowed because it was your conclusion that they
10	were below the depth to the water and then
11	consequently were inappropriate?
12	A. Yes.
13	Q. And that applies to both the BTEX and
14	the PNA soil samples, is that correct?
15	A. Correct.
16	Q. Now, below that, there's a thing that
17	says Encore.
18	What is Encore?
19	A. Encore is just a sampling device that
20	is used to collect the soil sample.
21	Q. Now, how did now, the previous
22	soil samples, they requested 22 of each. Here they
23	requested 60.

Well, I think the 60 is incorrect. I

24

Α.

	Page 31
1	think it may have been 66; that I wrote down the
2	wrong number. I could be wrong.
3	If you look at Exhibit D,
4	page
5	Q. How many Encore samples are taken at
6	any one time?
7	A. Well, in most cases in the budgets
8	that I reviewed, most people allow three samples per
9	sampling point, so for each sample you would have
10	three Encore samples that we allow.
11	In this case, I think there
12	wereif you take 22 samples times three Encore
13	samples per site, per location, you end up with 66,
14	not 60.
15	Q. Okay. And so now you allowed
16	A. But the amount allowed was still
17	based on the depth to water samples above the water
18	table which was only ten.
19	Q. So with BTEX and PNA, you allowed ten
20	samples, correct?
21	A. I allowed ten per location or, I'm
22	sorry, three per location of ten samples which would
23	be 30.
24	Q. Is that for the Encore samples?

	Page 32
1	A. Correct.
2	Q. Okay. And is that why there's three
3	times as many allowed there than for BTEX and PNA?
4	A. In terms of the Encore samples, yes.
5	Q. And so relying upon Exhibit H to
6	determine the rates, you calculated that the
7	modifications as set forth in Exhibit A were
8	necessary because you determined that only 75 feet
9	of drilling was appropriate under the regulations,
10	correct?
11	A. I'm sorry. Could you repeat that?
12	Q. Sure.
13	You determined in the course of
14	reviewing Exhibit D in response to Exhibit C that
15	I'm sorry. Strike that.
16	You determined in reviewing
17	Exhibit D in response to Exhibit B that 75 feet of
18	drilling was appropriate and no more?
19	A. Correct.
20	Q. Based on that determination and the
21	rates set forth in Exhibit H, you made the
22	modifications that you did on the last page of
23	Exhibit A, correct?
24	A. Correct.

	Page 33
1	MR. SIEVERS: I have nothing further.
2	HEARING OFFICER WEBB: Mr. Riffle, do
3	you have anything?
4	MR. RIFFLE: I do.
5	THE WITNESS: I knew I wasn't crazy.
6	I found my 66.
7	MR. RIFFLE: Sir, I just have a few
8	weeks for you.
9	
10	CROSS-EXAMINATION
11	BY MR. RIFFLE:
12	Q. Could you explain to me what
13	distinguishes early action from Stage I?
14	A. Early action requirements are spelled
15	out in 734.210(h). The Stage I requirements are
16	additional borings to further define the extent of
17	impact after you've made your early action samples,
18	after you've collected your early action samples.
19	Q. And do I strike that.
20	What did you consider this to be
21	at the time of the submittal in this case as to that
22	issue?
23	A. 45-day report early action samples.
24	Q. And why did you come to that

	Page 34
1	conclusion?
2	A. Because there had been nothing else
3	submitted on this site. It was the first submittal.
4	Q. Okay. And Mr. Green testified that
5	he wasn't the first consultant on this site, is that
6	correct?
7	A. I wasn't here when Mr. Green
8	testified.
9	Q. Oh, sorry.
10	Was
11	A. Oh, I'm sorry. Maybe I was.
12	Q. Was Midwest the first consultant on
13	the site?
14	A. I don't recall off the top of my
15	head.
16	Q. This, as far as you knew, was the
17	first submittal of anybody with respect to this
18	particular incident?
19	A. Yes.
20	Q. Okay. Would these samples have been
21	appropriate under Stage I site investigation?
22	A. No.
23	Q. And why is that?
24	A. Because Stage I samples are based on

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Page 35 1 the results of your early action samples. 2 Without the results of your 3 early action samples, there is no way you can 4 determine that Stage I is adequate. 5 Everything is built on the early 6 action samples, and then you move to Stage I based 7 on those results. You move to Stage II based on the 8 Stage I results and so on to Stage III if necessary. 9 Q. Under what circumstances is drilling 10 below the groundwater appropriate? During the corrective action phase I 11 Α. 12 see it quite often in order to determine a 13 corrective action remedy for a release. Quite often you need to know the soil characteristics below the 14 15 water table in order to make those determinations. 16 During early action, how do you know 0. 17 when to stop the drilling? 18 Α. You stop it -- it's indicated in the 19 734 requirements where you stop drilling. It's the 2.0 depth to water normally or if you run into some kind 2.1 of obstruction, you're supposed to move and try to 22 drill again, and that's only when tanks remain in

Q. You were shown earlier Exhibit E, and

23

24

place.

	Page 36
1	I see that you have it in front of you there.
2	Could you turn to page 2 of that
3	exhibit?
4	A. Okay.
5	Q. My understanding is that the middle
6	column there if you will where it shows 26 feet,
7	that's the depth that monitoring well 1 was actually
8	drilled to, is that correct?
9	A. According to the submittal, yes.
10	Q. Okay. Do you have any reason to
11	believe that those are not accurate as to the depths
12	they were actually drilled?
13	A. No.
14	Q. Okay. So monitoring well 1 was
15	drilled to 26 feet. The other is either 20 or
16	22 feet?
17	A. I believe so, yes.
18	Q. Do you have any idea why they were
19	drilled to that depth?
20	A. No.
21	Q. And it's your testimony that the only
22	time it's appropriate to drill below the groundwater
23	is during the actual remediation phase?
24	A. No. During the investigative phase

	Page 37
1	in subsequent stages, Stage 1, Stage II or Stage
2	III, if you have evidence that contaminated soil is
3	in contact with groundwater or you have other
4	available evidence that groundwater is contaminated,
5	you have to do a groundwater investigation.
6	In order to construct a
7	monitoring well, you obviously have to drill below
8	the depth to the water.
9	Q. Do projects always proceed in that
10	exact sequence of early action, Stage I, Stage II?
11	A. No.
12	Q. Under what circumstances is it
13	appropriate not to proceed in that fashion?
14	A. In my opinion, the regulations don't
15	allow for it.
16	Q. But it does happen?
17	A. It does happen.
18	Q. And under what circumstances does it
19	happen?
20	A. Many cases there are submissions very
21	similar to this where the early action samples have
22	not been collected so then we have to go figure out
23	a way to make the sampling requirements fit the
24	conditions that exist at the site today, and in many

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Page 38 1 cases we assume, okay, we didn't get the early 2 action samples from an excavation. 3 therefore, allow them to do the early action borings 4 as if the tanks are still in place because that's 5 the only thing you can do. 6 0. In this case, were the tanks in 7 place? 8 Α. I don't recall. I don't think they 9 I think they were removed. were. 10 And what difference would that have Ο. made? 11 12 Α. Well, normally during an excavation and removal of the tanks, you sample the sidewalls 13 14 and bottoms. That's your early action samples, and 15 as part of that investigation, you're determining 16 whether the groundwater is in contact with 17 contaminated soil. 18 Do I understand what you're saying 0. 19 correctly that oftentimes, early action and Stage I 20 really get compressed into one stage if you will? 2.1 Α. No. The sampling requirements for 22 early action under 210(h)(2) I believe require 23 borings around the tank beds and the piping.

still early action sampling results for the cases

24

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Page 39 1 where the lines and tanks remain in place. 2 So in many cases, we take the 3 results of what people call a Stage I and we try to 4 conform those to what is required under the early 5 action requirements for tanks that remain in place 6 and fill in the gaps. 7 Given what we already have 8 around those tanks and lines, do we need more to 9 complete the 210(h)(2) requirements than what we already have or are they adequate. 10 I think I understand what 11 Q. Okay. 12 you're saying. I just want to confirm. 13 So you're saying oftentimes 14 people will go in and do essentially a Stage I 15 without having done the early action and submit it? 16 Α. No. 17 Q. No? 18 Α. That's not what I said. 19 Q. Okav. 20 I said what people call a Stage I Α. 2.1 investigation, we use and conform it, to the extent 22 we can, to satisfy the 210(h) boring requirements as 23 if the tanks remain in place. You still have to

satisfy this 210(h) early action sampling

24

	Page 40
1	requirements.
2	But if the tanks are already
3	gone and they didn't do the proper sampling and
4	analysis, you have to bore around the tanks and
5	lines to try to determine what were those early
6	action conditions in order to determine now where do
7	I look in Stage I to determine the extent of that
8	impact, because if those early action samples are
9	all what we call clean in tier 1, there's no further
10	investigation required. There's no Stage I.
11	Q. Are you describing a situation where
12	somebody has essentially skipped a step that would
13	have been required?
14	A. Correct.
15	Q. Okay. And what step is it that they
16	skipped under that scenario?
17	A. The 734.210(h) early action
18	requirements.
19	Q. Okay. So they skipped the early
20	action requirements. They've gone right to a next
21	step.
22	What would that next step be
23	called?
24	A. I assume they call it a Stage I.

	Page 41
1	Q. Okay.
2	A. But that's not what it is.
3	Q. Okay. What is it?
4	A. It's early action 210(h)(2) boring
5	requirements which I just described where we try to
6	fit what they did into what is required in
7	734.210(h)(2) for tanks that remain in place.
8	So we use the information they
9	submit to the extent we can to satisfy those early
10	action requirements and then build upon that and say
11	the following additional work needs to be done to
12	finish up your early action before you go to Stage
13	I.
14	Q. And is that your understanding of
15	what happened in this particular case?
16	A. Yes.
17	Q. Okay. And on a percentage basis,
18	could you give just a rough approximation of how
19	often that happens?
20	A. 30 percent.
21	MR. RIFFLE: Okay. I have no other
22	questions.
23	
24	

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Page 42 1 REDIRECT EXAMINATION 2 BY MR. SIEVERS: 3 Q. In this case when you were reviewing 4 the submittal from the petitioner, did that 5 submittal contain anything in there that identified 6 that there were site specific conditions that 7 warranted drilling below the depth to water? 8 The only two submittals I recall that Α. I reviewed were the Exhibit D original submission, 9 10 and that didn't have anything to that effect in it, 11 and the request for re-review, which was Exhibit B, 12 and it didn't have any of that information. 13 So while it's possible to drill below Ο. 14 the depth to water if there are site specific 15 conditions, none were called to your attention in 16 the petitioner's submittals? 17 Α. Correct. 18 There was a need to drill beyond the 0. 19 depth to water though to install the monitoring 20 wells, correct? 2.1 Α. I allowed it, yes. 22 Whether this Exhibit D as Q. 23 reconsidered in Exhibit B is considered an early

action submittal or a Stage I submittal, is the rule

24

	Page 43
1	the same as you understand it, that you only drill
2	the depth to water?
3	A. The early action requirements are.
4	Under the Stage I requirements
5	is where I believe you can make the determination of
6	soil and contact with groundwater and determine that
7	a groundwater investigation is required.
8	Q. I'm handing you what has been
9	previously marked as Exhibit F. I believe you
10	looked at that.
11	Calling your attention to
12	Subpart A(1)(a), that last sentence of A(1)(a.)?
13	A. Yes.
14	Q. Would you need site specific
15	conditions under your reading of that provision to
16	drill below the depth to groundwater?
17	A. Yes.
18	MR. SIEVERS: I have nothing further.
19	MR. RIFFLE: Nothing further.
20	HEARING OFFICER WEBB: Okay. Thank
21	you, Mr. Chappel.
22	(Witness excused.)
23	HEARING OFFICER WEBB: Mr. Sievers,
24	do you have anything further to present as part of

	Page 44
1	your case?
2	MR. SIEVERS: I do not.
3	HEARING OFFICER WEBB: Okay.
4	MR. RIFFLE: If I may call Mr. Green
5	again very briefly.
6	HEARING OFFICER WEBB: Okay.
7	Mr. Green, you are still under
8	oath.
9	
10	ALLEN GREEN
11	recalled as a witness herein, on behalf of the
12	Petitioner, having been previously sworn on his
13	oath, was examined and testified as follows:
14	
15	DIRECT EXAMINATION
16	BY MR. RIFFLE: (On rebuttal)
17	Q. Mr. Green, you looked at page 2 of
18	Exhibit E, and it shows the depths that they were
19	actually drilled.
20	Do you have an understanding as
21	to why those drillings went to those depths?
22	A. Based on field observations, we don't
23	know where groundwater is at unless it's real
24	obvious. Sometimes you come across it, it's real

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obvious where it's at.

2.0

2.1

Drilled down, I mean, that's a pretty standard depth in this area or in the area that this took place at, to where we reached a strata that we would assume groundwater would be above that level. It's relatively impermeable strata.

- Q. Can you describe in some detail -you've observed the drilling process before,
 correct?
 - A. Yes.
- Q. What is the process that's followed?

 I mean, do they stop every six inches or a foot or what do they do when they start drilling?

A. In this case, they were using a poly stem auger, and they drill down to the depth that you want to sample. You put a hollow tube basically, a sampling tube inside the auger, and that's driven to a depth normally three feet below the bottom of the auger. That's pulled up, and then that tube is opened, it's split, and you've got a three-foot section of soil there that should be representative of the strata that's below that auger.

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Then you drill down to the next depth, and you do the same thing down to that depth to where you stop.

- Q. When in this process would the driller have determined what the depth to the groundwater would have been?
- A. When they did the first boring, they've got an idea of what the geology is of the site. You're not that far apart when you do the borings to where they can determine what would be the depth that would be reasonable to assume that's where you want to set the bottom of your well.
- Q. And I think I understand it, but can you just kind of describe how this process would have worked in the field? Just kind of describe the drilling process, how it would have been set up and how this would have been mobilized in the field.
- A. The first boring, once they reached the location, they would drill down just below paving gravel, whatever the surface is, push the first spoon is what it's called down below that, pull it up, observe and sample the different strata, and then, based upon that, decide, okay, we're going to go to the next level and dig that down to 26 feet

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on the first.

2.1

Then, based upon what they saw in the original borings or the original boring, they said, okay...they still do the same thing with each additional one, but then they have a better idea of where they need to stop when they start looking at the different strata they're collecting.

Then, once the boring reaches that depth, the monitoring well casing is dropped down through the auger. It's got a ten-foot section, a screen, which is slotted pipe with solid above up to the top.

That's dropped down into the center of the auger, and then, as they bring the auger up, where the screen is at, they pour, basically it's pea gravel, silica sand, dependent on what the strata is, to filter out the sediment, around that as they pull it up.

Then they get a couple feet above the screen, then they start backfilling that with bentonite which is basically clay pellets that as it gets wet, it expands and seals. It's almost like Vaseline, and then they do that all the way up to the surface, and then the well on the top is

	Page 48
1	either, if it's a flush mount which means it's flat
2	to the ground, they'll put a cover on that, a seal,
3	so there's no surface water getting into the well,
4	and then a cover, steel manhole basically.
5	If it's above ground, they use a
6	three-foot steel tube that they stick in the ground,
7	a concrete that protects it from being run over or
8	whatever, and then they've got those sampling points
9	they can go back and take samples from.
10	Q. Do I understand correctly that
11	Midwest would have subcontracted the drilling work
12	out in this particular case?
13	A. Yes.
14	Q. And who did you subcontract that out
15	to?
16	A. Whitney & Associates out of Peoria.
17	Q. And they have a reputable
18	A. They have been doing it a long time.
19	Q. They're one of the bigger companies
20	around?
21	A. Yes.
22	Q. So the first one they drilled was to
23	26 feet, is that correct?
24	A. Yes.

	Page 49
1	Q. And the others were at a slightly
2	lesser depth?
3	A. Yes.
4	Q. And do you still think those are
5	appropriate depths to seek?
6	A. Yes.
7	MR. RIFFLE: Nothing further. Thank
8	you.
9	
10	CROSS-EXAMINATION
11	BY MR. SIEVERS: (On rebuttal)
12	Q. Mr. Green, you spoke of putting a
13	spoon into the ground below the asphalt or the
14	gravel and progressively working your way up to
15	26 feet, correct?
16	A. Yes.
17	Q. Now, I think you spoke to those
18	spoons taking a three-foot sample. Would that be,
19	correct?
20	A. Yes.
21	Q. So the first time it goes down into
22	the ground, it takes three feet, and then where is
23	the next level? How far down does it go the next
24	time around?

2.1

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A. You auger down to where that sample stopped with the auger, and then you put the spoon into the auger, into the center of the auger, and you drive it down below the bottom, so you're basically sampling -- you're only using the auger to get down to the level you want to sample, and then you drill down to where that sample stopped, and then you go down below that.

Q. So in that case, would you be going in three-foot increments?

A. Yeah. There are three-foot and there are five-foot spoons. Some of the Geoprobe, which is newer to where they don't use an auger, they basically just kind of drive the tubes down into the ground, pull them up, and then go back down in the hole, some of those have five-foot sampling sections.

It just depends on what equipment they're using.

Q. Okay. And at some point, one of those samples has water?

A. Well, you're not going to have water. You might have a strata that you look at and say I would assume that there would be -- it's saturated

	Page 51
1	to where you can look at it and say if it's a
2	gravel, sand, something like that and it's wet, you
3	can say chances are there's groundwater in that
4	strata.
5	It's up to the geologist on the
6	site doing the drilling to try to determine where
7	the groundwater would sit until you put in the
8	monitoring wells and let them sit. Then the
9	groundwater comes up to a level that's equilibrium,
10	and then you know where the groundwater table is at.
11	Q. And on the boring logs was a
12	geologist on site for the drilling?
13	A. A geologist or environmental tech,
14	one of the two.
15	Q. And on your boring logs in Exhibit D,
16	the boring logs begin at page 77.
17	A. Uh-huh.
18	Q. The lower left-hand corner, it says
19	depth while drilling and depth after drilling.
20	What do you understand those two
21	terms to mean?
22	A. I'm sorry. I don't see it. What is
23	your
24	Q. Lower left-hand corner.

	Page 52
1	A. Okay.
2	Q. Depth while drilling, depth after
3	drilling. What do you understand those two terms to
4	mean?
5	A. Basically, that's the water level
6	after they drill down, they let it sit, or while
7	they're doing the drilling, you'll get water that
8	will come up and go in the augers, and basically
9	then after the drilling, if it sits for a while open
10	or the well has been installed, then that's what the
11	level is basically certain because it sat for a
12	period of time, say, well, normally it's 24 hours or
13	more. Then that's the level that you know you've
14	got groundwater at after it's sat.
15	Q. The depth after drilling?
16	A. Yes.
17	MR. SIEVERS: Okay. Nothing further.
18	MR. RIFFLE: Just real quickly.
19	
20	REDIRECT EXAMINATION
21	BY MR. RIFFLE: (On rebuttal)
22	Q. Is it possible that they drilled down
23	to this 20-foot depth without knowing for sure that
24	they had groundwater?

	Page 53
1	A. Yeah. I mean, there's a lot of times
2	where we'll drill down and think we have groundwater
3	and the wells never will produce water because, you
4	know, there may have been something there that
5	looked like it should have but it doesn't, but we
6	get dry wells all the time.
7	Q. Is drilling down to about 20 feet a
8	fairly standard practice?
9	A. Yes, standard for that area.
10	MR. RIFFLE: Okay. Nothing further.
11	MR. SIEVERS: Nothing further.
12	HEARING OFFICER WEBB: All right.
13	Thank you, Mr. Green.
14	(Witness excused.)
15	HEARING OFFICER WEBB: Would you like
16	to move to admit these?
17	MR. SIEVERS: I would like to move to
18	admit Exhibits A through H. I believe they're all
19	part of the record.
20	MR. RIFFLE: No objection.
21	HEARING OFFICER WEBB: We'll call
22	these hearing exhibits just to clarify.
23	MR. SIEVERS: Sure.
24	HEARING OFFICER WEBB: So Hearing

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1	Exhibits A through H are admitted.
2	(Whereupon Hearing Exhibits A
3	through H were admitted into
4	evidence at this time.)
5	HEARING OFFICER WEBB: The transcript
6	is due by May 2nd and will be posted on the Board's
7	website.
8	The public comment deadline is
9	May 6th. Public comment must be filed in accordance
10	with Section 101.628 of the Board's procedural
11	rules.
12	The petitioner's brief is due by
13	May 27th.
14	Respondent's brief is due by
15	June 25th.
16	Petitioner's reply brief is due
17	by July 9th.
18	Would you like to make any
19	closing argument?
20	MR. RIFFLE: No.
21	HEARING OFFICER WEBB: Would the
22	Agency?
23	MR. SIEVERS: No.
24	HEARING OFFICER WEBB: Okay. At this

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Page 55
       time I will conclude the proceedings.
 1
                             We stand adjourned, and I thank
 2
       you for your participation.
 3
                             (Which were all of the
 4
 5
                            proceedings held at this time.)
 6
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	Page 56
1	STATE OF ILLINOIS)
2) SS. COUNTY OF SANGAMON)
3	
4	CERTIFICATE
5	I, Laurel A. Patkes, Certified Shorthand
6	Reporter in and for said County and State, do hereby
7	certify that I reported in shorthand the foregoing
8	proceedings and that the foregoing is a true and
9	correct transcript of my shorthand notes so taken as
10	aforesaid.
11	I further certify that I am in no way
12	associated with or related to any of the parties or
13	attorneys involved herein, nor am I financially
14	interested in this action.
15	Dated April 28, 2014.
16	
17	
18	Certified Shorthand Reporter
19	Certified Shorthand Reporter
20	
21	
22	
23	
24	

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	A gamay 1.6 0.15	annuaving 12.2	hook 14:0 10	51.11 15 16
<u>A</u>	Agency 1:6 9:15 14:9 54:22	approving 12:2	back 14:9,19 15:1 24:6 27:7	51:11,15,16 borings 8:9 9:24
A(1)(a 43:12	Al 6:15	approximation 41:18	48:9 50:15	10:24 18:14,19
A(1)(a) 23:16	Albarracin	April 1:11 4:5	backfilling	19:21 21:4,6
43:12	24:20	15:24 56:15	47:20	· · · · · · · · · · · · · · · · · · ·
acceptable 11:2			based 10:2 11:3	21:20,22 23:20 23:23 24:23
account 22:15	Allen 3:3,9 7:1 7:10 44:10	area 45:3,3 53:9	18:10 19:5	
24:7	allow 12:6 22:13	argument 54:19 arrive 22:9	23:21 24:10	25:5,7 29:7,23
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achieved 28:21				bottom 9:3
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10:22	38:3 allowed 21:12		47:2	18:13 25:4
act 4:23		associated 56:12		45:20 46:12 50:4
action 8:11	21:15 22:5,8	Associates 48:16 assume 20:1	basically 9:2,8 10:21 45:18	bottoms 38:14
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