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Southwest District Office

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Ted Strickland, Governor Lee Fisher, Lieutenant Governor Chris Korleski, Director

March 5, 2009

Ronald Murawski U.S. EPA, Region V 77 West Jackson Blvd (SR-6J) Chicago, IL 60604-3590

RE: TREMONT CITY BARREL FILL SITE Email from Jerome Maynard dated February 5, 2009 Bulk Waste Disposal at Barrel Fill

Dear Mr. Murawski:

Ohio EPA has reviewed the February 5, 2009 email¹ and attachments sent by Jerome Maynard on behalf of Responsible Environmental Solutions Alliance (RESA), the PRP group responding to EPA's RI/FS orders for the Tremont City Barrel Fill site. Mr. Maynard asserts in his email that Ohio EPA misspoke during a December 18, 2008 conference call regarding bulk waste disposal practices at the Barrel Fill. Mr. Maynard's email was accompanied by two attachments: 1) Summary of Cell Reports and Cell Logs; and 2) the deposition of a former employee of the Barrel Fill, Wade Nelson Wallis. This letter responds to these issues and provides additional information on the disposal of bulk waste at the Barrel Fill as documented in Ohio EPA's correspondence files and/or in depositions included in Appendix U of the RI Report.

Mr. Maynard's email discusses the disposal of sludges from oil recovery operations conducted at the Former Waste Transfer Facility based on the deposition of Waid Nelson Wallis.² The Wallis deposition and several others are included in Appendix U of the RI Report. On page 93 of this deposition, Mr. Wallis describes these sludges as "heavy gray mud...Mostly it was dirt, floor sweepings from factories. Some of it would have been finely divided carbon from motor operations, bits of metal from bearings and machinery that the oil was in. A small amount of oil would remain in it and some water."

Regarding the quantity of this waste, when asked on page 94 of the deposition if it would amount to thousands of gallons on a cell report, Mr. Wallis responded "I would think in the hundreds. I can't imagine it getting into thousands of gallons. The tank -- the treatment tanks would only hold about four thousand gallons so -- and it was a small percentage of that, so I don't think you would get into the thousands of gallons off that."

¹ See Attachment 1

² See Attachment 1, Deposition of Waid Nelson Wallis, December 16, 2005, pages 58 through 61.

Mr. Ron Murawski, U.S. EPA Region 5 March 5, 2009 Page 2 of 6

The Summary of Cell Reports and Cell Logs (Summary) included as an attachment to Mr. Maynard's email includes an entry for "42 pallets of paint sludge" for cell G-6, along with a notation stating that this was bulk waste. Mr. Wallis is questioned regarding these same pallets on page110-111 of his deposition:

"Q. But if you see on the first page which is a cell report for cell G-6, the first item listed is PPG Industries, pallets, parentheses, looks like it says paint sludge or PT, period, sludge, and then it says forty-two pallets. What do you think that indicates?" "A. Sloppy recordkeeping."

"Q. Was sloppy recordkeeping typical at that site?"

"A. No. This particular cell report does not look typical of what you would expect to have seen there. Certainly it would have had to have -- whatever that material was, if it was any kind of sludge, it had to have been in some sort of a container to be on a pallet so whether they had three or four drums sitting on a pallet and rather than record hey, I put four drums in of this material, they just wrote down how many pallets they put in."

"Q. How many drums would fit on one pallet?"

"A. You can put four drums on a possible."

"Q. So does forty-two pallets indicate to you that it would have been forty-two times four, the number of drums?"

"A. That's what I would have expected, yes."

The Summary also lists 120 cubic yards of still bottoms disposed of in cell 2-B. In a June 22, 1977 IOC from Joe Moore, Ohio EPA Southwest District Office, to Bob Brown, Ohio EPA Central Office, Mr. Moore notes:

"I have reviewed Mr. Wright's monthly reports of materials disposed on the site. They are in agreement except for one item - WOO56 Systech Still Bottoms 120 cu yds. This material was disposed bulk in Cell B-2. What is the status of this material? Is it acceptable for disposal in the chemical landfill? Please contact Mr. Wright directly if you need further specific information about the waste - (513) 969-8346."³

While there is not a response to Mr. Moore in the file, Mr. Wallis, a former employee of Systech, addresses still bottoms on page 84 of his deposition:

"Q. Getting back to this solvent recovery process, what kind of container would the stillbottoms be in at the end of that process?"

"A. They could either be drummed or it could have been done in bulk. Typically the -- at that time most of the people who were recovering solvents would have drawn the still bottoms out."

"Q. Why do you say that?"

³ See Attachment 3, Ohio EPA 1977 Correspondence File

Mr. Ron Murawski, U.S. EPA Region 5 March 5, 2009 Page 3 of 6

"A. Because it's a small part of the total and when they cleaned out the still it's easier to dump it into it -- it's typically a sticky, gooey, chewing gum material and it's a lot easier to rake that out into a drum than do anything else with it."

"Q. Do you remember any of that material, stillbottoms, coming into the site in anything other than drums?"

"A. I don't even remember any of it coming in when I was there."

The Summary also contains two listings of still bottoms in boxes. The deposition of Clyde Hill, a chemist hired by IWD Liquid Waste to assist them in expanding their operations at the Tremont site, is included in Appendix U of the RI Report.⁴ Mr. Hill was present during the initiation of operations at the Barrel Fill, and observed disposal practices employed for the first several waste cells, some of which were not continued in subsequent cells. Mr. Hill was the on-site chemist responsible for testing wastes received at the Tremont site (which included the Waste Transfer Facility) to determine its ultimate disposition. A subset of this waste was disposed of in the Barrel fill. Mr. Hill was questioned on the subject of stillbottoms from Systech in boxes. From pages 90-92 of Mr. Hill's deposition:

"Q. Was there anything that you got from Systech that went into the barrelfill?" "A. Paint sludge when they were -- from their solvent reclamation process. They distilled the solvents out of the paint sludge and then we would water paint sludge. That's the only thing I remember in barrels."

"Q. Is that what would be referred to as stillbottoms?"

"A. Yes, that's the sludge that come out of the still."

"Q. Did that ever come in barrels?"

"A. Yes."

"Q. Do you remember it ever coming in anything that would be recorded as a box on the cell log?"

"A. I don't know, unless they figured out -- later on figured out a way of driving it out where they could get the mostly just dry sludge. It was little -- had some water in it, but if they got -- if you do a real good job, then you opened up the bottom of the still and you get this big glob of goo out of there."

"Q. Do you remember any other generator of stillbottoms besides Systech?"

"A. No, I don't remember anybody else reclaiming anything."

"Q. Do you remember how often you would get Systech stillbottoms?"

"A. No, because they would kind of save it up until they had a bunch of it or something. That way they cut their costs so you made one trip and picked up the whole batch out of there."

"Q. So each time it was picked up from Systech, about how much was in that load, if you remember?"

^{*}A. It was -- I can't remember if they did it with the semi trailer truck or the small state bed truck about half as big as I -- I don't think it was a huge quantity. Came from the Franklin plant where they had the still and they would steam distill the

⁴ See Attachment 4, Deposition of Clyde Hill

Mr. Ron Murawski, U.S. EPA Region 5 March 5, 2009 Page 4 of 6

sludge or solids, waste solids, and you would get all the paint, the dried paint and everything. It was pretty inert."

"Q. Was there more than one occasion when stillbottoms were picked up from Systech and brought to Tremont?"

"A. I think so."

"Q. You think it was more than five times while you were there?"

"A. Oh, no."

"Q. It was less than five times?"

"A. Yes."

Ohio EPA has not verified the remainder of the information provided in the Summary of Cell Reports and Cell Logs, and does not dispute that this information was gathered from cell reports and cell logs. Ohio EPA correspondence files (attached) document the types of bulk waste initially approved for disposal at the Barrel Fill and as operations progressed.⁵

Lastly, Mr. Maynard asserts in his email that Ohio EPA statements made during the December 18, 2008 conference call "mischaracterized the operational history or were in plain error." Ohio EPA discussed disposal of bulk polyol waste in the first two cells and mentioned that asbestos was permitted to be disposed of as a bulk waste. These statements were made based on the recollection of the deposition of Clyde Hill. From page 38 of the Hill deposition:

"Q. So would they pour the polyol along the edges so it wasn't actually on top of the drum?"

"A. Oh, yeah, it would flow. Usually get -- I imagine it came pretty much over -- Some of the polyol was almost set up and --

"Q. Do you mean almost solidified?

"A. It was real thick and wouldn't flow very good.

"Q. Was this done with the polyol from the very first cell?

"A. Yes.

"Q. Was it done with every cell?

"A. Two of them I know.

"Q. Do you know which two?

"A. The first two. In the northwest corner was the first cell and the then the next cell was right next to it. Here, I can show you on that picture."

From pages 61-64 of Mr. Hill's deposition:

"Q. Now, you had testified earlier that polyol was poured in there around the edges of the drums in the first two cells?"

⁵ See Attachments 2 and 3, Ohio EPA Correspondence files, 1976-1977

Mr. Ron Murawski, U.S. EPA Region 5 March 5, 2009 Page 5 of 6

"A. Now, wait. I think the second cell they might have had some rusty paint sludge drums that they took the lid off and dumped because the drum had been setting around and was rusting out and wasn't, you know, couldn't do much with it." "Q. So they took the lid off and poured the content of the drums directly into the cell?"

"A. Yes."

"Q. How many drums were there if you can estimate? Was it more than --"

"A. I would say probably eighty drums maybe because there was two truckloads that they picked up, Stolle Corporation."

"Q. And did all of those eighty drums go into the same cell?"

"A. As far as I know."

"Q. And your recollection of the rusty drums were the lids were taken off, would that have been all eighty or all of the rusty drums or just some of them?"

"A. It was most of them because the bottom of the drum, a lot of them when you started to go like that (indicating), you didn't have to take the lid off."

"Q. It just fell apart?"

"A. That's right. And went down in the cell."

"Q. So they just let the contents pour directly into the cell?"

"A. Yeah."

"Q. Do you know if that ever happened at any other times with paint sludge?

"A. I don't remember another batch being that bad."

The reason Ohio EPA discussed the disposal practices of the first two cells during the December 18, 2008 call was that between the cell reports, logs, and Mr. Hill's eyewitness account, it is perhaps the best documented account of the disposal of bulk waste at the Barrel Fill. Mr. Maynard's email refers only to the Wallis deposition, but Mr. Wallis worked at the end of the operating life of the Barrel Fill and apparently was not directly involved in any bulk waste disposal. From page 71 of his deposition:

"Q. Do you have any memory of any material being disposed of in bulk form in order to use up any remaining free space in the cells after the drums were placed in there?"

"A. As I remember, the permit allowed for sludges to be placed around the drums but I don't remember during the time that I was there that we actually did that."

Finally, Mr. Maynard's email concludes:

"Based on the records referred to above and Mr. Wallis' sworn testimony, uncontainerized industrial wastes consisting of sludges which are mostly liquid in nature were disposed of in most if not all of the Barrel Fill Landfill cells during operations in 1977 through the end of 1979. Based upon the presence of liquid uncontainerized industrial wastes in many of the cells over 28 years ago, empirical data indicates that the tills prevent migration of liquids from the cells very effectively." Mr. Ron Murawski, U.S. EPA Region 5 March 5, 2009 Page 6 of 6

Ohio EPA's correspondence files, the depositions of past employees, the type of bulk waste permitted for disposal at the Barrel Fill, and the test pit investigations conducted during the RI do not support Mr. Maynard's conclusion that the bulk wastes were "sludges which are mostly liquid in nature" or "liquid industrial waste." They are documented as gels and sludges, not liquids. They will not flow into the liquid waste extraction sumps proposed in Alternative 7 of the FS Addendum.

It is noted that RESA has previously tried to characterize water table cell water as bulk liquid industrial waste, performing flawed qualitative evaluations if that were actually the case.⁶ It would appear from the concluding statement in Mr. Maynard's email that this continues to be RESA's approach, only this time it's the bulk waste which is mischaracterized as liquid industrial waste and not the cell water.

Please feel free to call me at (937) 285-6059 if you have any questions or if we can be of any further assistance.

Sincerely,

Mark V aller

Mark V. Allen Division of Emergency and Remedial Response

Cc: via email only Kelly Kaletsky, SWDO\DERR Joan Tanaka, U.S. EPA Region 5 Diana Embil, U.S. EPA Region 5 Bob Kay, U.S. EPA Region 5 David Reisman, U.S. EPA ORD Ed Barth, U.S. EPA ORD Jewel Keiser, CH2M Hill

Attachments

⁶ "The problem with RESA's analysis is that the drums have not yet released their contents. The concentrations of contaminants detected in the drums from test pit 3 are orders of magnitude higher than concentrations detected in the test pit 3 cell water. This issue of Barrel Fill wastes increasing the permeability of the till as they are released over time remains to be addressed." Page 5, Ohio EPA February 4, 2008 Review Comments, Feasibility Study, Tremont City Barrel Fill Site, Clark County, German Township, Ohio, November, 2007

Attachment 1

Mark Allen

From:	"Maynard, Jerome"
To:	,
Date:	Thursday, February 05, 2009 11:56 AM
CC:	"Mark Allen", "Kelly Kaletsky", , "Salinas, Sharon",
Attachments:	"Mark Allen", "Kelly Kaletsky", , "Salinas, Sharon", ,

Diana and Ron:

RESA wants to correct the record regarding waste disposal at the Tremont City Barrel Fill Site. During our meeting on December 18, 2008, attended by some participants by phone, statements were made by OEPA regarding the operational history of the Barrel Fill Landfill. RESA has confirmed by review of the records, including witness deposition transcripts, that some of those statements mischaracterized the operational history or were in plain error. RESA wants to ensure that all decisions made in this matter are based upon the facts, scientific data and best evidence.

Regarding disposal of uncontainerized or bulk wastes in the cells with the barrels, aka containerized waste, the statement was made that at most only a very few of the Barrel Fill Landfill cells received uncontainerized wastes and that the disposal of such wastes ceased soon after operations began. In fact, two separate and independent sources indicate that large quantities of uncontainerized wastes were disposed of in most if not all cells throughout the operational history of the Barrel Fill Landfill.

First, the Site operational records document disposal of uncontainerized wastes received from customers in 16 cells in 1977. Attached is a spread sheet prepared by H&A that summarizes the recorded uncontainerized waste that was disposed of in the cells. This spreadsheet was prepared from the copies of the original cell reports and logs as prepared by the operator at the time the cells were filled with wastes. Summaries of those cell reports and logs were included as Appendix B to the RI Report. As with all records at the Barrel Fill Landfill, the records are detailed and specific. They indicated that over 300,000 gallons of such wastes were disposed of in 16 of the cells as noted in the records. Those records indicate that such disposal began in April, 1977 and continued throughout 1977. These records are for uncontainerized wastes, primarily sludges, that the site operator received from customers.

In addition, the deposition testimony of Waid Nelson Wallis who worked in a supervisory capacity at the Barrel Fill Landfill for IWD Chemical during most of 1979 and into early 1980 confirms that unrecorded sludges also were disposed of in many of the cells. Mr. Wallis was probably the most lucid and credible of the several former Barrel Fill Landfill employees whom we deposed. He clearly states that during the entire time he worked there, and to his knowledge prior to that, IWD disposed of sludges in the Barrel Fill Landfill from its oil recovery operation located on what is now referred to as the waste transfer station. Please see pp. 89-95 of the attached deposition transcript of Mr. Wallis' testimony. These were wastes that were generated internally by IWD operations rather than being received from IWD customers. We have found no records of the quantity or quality of these wastes, but Mr. Wallis' testimony is uncontroverted.

Based on the records referred to above and Mr. Wallis' sworn testimony, uncontainerized industrial wastes consisting of sludges which are mostly liquid in nature were disposed of in most if not all of the Barrel Fill Landfill cells during operations in 1977 through the end of 1979. Based upon the presence of liquid uncontainerized industrial wastes in many of the cells over 28 years ago, empirical data indicates that the tills prevent migration of liquids from the cells very effectively.

<<wallis.pdf>> <<Dykema_D.pdf>> Jerome I. Maynard

Dykema

10 S. Wacker, Suite 2300 Chicago, IL 60606 Ph. (312) 627-2185 Fax (312) 627-2302 Cell Ph. (773) 960-5886 mailto:jmaynard@dykema.com

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DYKEMA

Cell ID	Total Drums	Total Bulk (gallons)	Bulk Waste Description
A1	1,525		
A2	1,177	72,000	Bulk Sludges
			Latex Glue 4,000 gal, Asbestos &
A3	1,620	6,000	water 2,000 gal
A4	1,176		
A5	693	12,200	Bulk Sludges
A6	910		-
A8	1,066		
A9	656		
A10	817		
A11	521		
			Ash Water 25,000 gal, Latex
B1	1,980	35,000	10,000 gal
	.,		Still Bottom 120 cu yards & 770
B2	424	25,012	gal
		20,012	Latex Glue 1,000 gal & Soap etc.
			500 gal & (3 boxes of Still
B3	1,232	1,500	bottoms)*
B4	360	2,000	Latex Glue
B5	1,114	20,000	Bulk Sludges
B6	966	20,000	Duik Sluuges
B7	1,743		
B8	501		
B9	882		
B10	1,517		
C1	1,008		
C2	763	5,000	Bulk Sludges
C3	915	72,000	Bulk Sludges
C4	521		
C6	1,470		
C7	1,466		
C9	660	4000	Bulk Sludges
D1	805	2,000	Latex Glue
D2	1,089	20,500	Bulk Sludges
D3	823	5,000	Bulk Sludges
		-,	Latex Glue 2,500 gal, Asbestos
D4	853	20,000	17,500 gal
D6	705	20,000	17,000 gai
D7	2,768		
D9	810		
E1	865		
21	000		Bulk Sludges & (1 Bey of Still
E2	561	2 000	Bulk Sludges & (1 Box of Still
E3	798	2,000	bottoms)*
E3 E4	790		
E4 E6			
E7	2,150		
E7 F2	1,337 624		
F2 F3	606		
F3 F4			
	315		
F6	2,294		
F7	2,005		
G2	480		
G3	599		
G6	1,620		42 pallets of Paint sludge*
H2	314		
H3	575		

Notes: * Additional bulk wastes not included total

1

	Page
1	IN THE UNITED STATES DISTRICT COURT
2	FOR THE SOUTHERN DISTRICT OF OHIO
3	WESTERN DIVISION
4	* * *
5	RESA,
6	Plaintiff,
7	vs. CASE NO. 1:04-CV-013
8	WASTE MANAGEMENT, INC.,
9	et al.,
10	Defendants.
11	* * *
12	Deposition of WAID NELSON WALLIS, Witness
13	herein, called by the Plaintiff for
14	cross-examination pursuant to the Rules of Civil
15	Procedure, taken before me, Mary Jo Stevens, a
16	Notary Public in and for the State of Ohio, at
17	Thompson Hine, 2000 Courthouse Plaza, NE, 10 West
18	Second Street, Dayton, Ohio, on Friday, the 16th
19	day of December 2005, at 9:33 a.m.
20	* * *
21	
22	
23	
24	
25	

Mike Mobley Reporting 937-222-2259

					an and a second s	
			Page 2			Page 4
1	EXAMINATIONS CONDUCTED) PAG	iΕ	1	WAID NELSON WALLIS	
2	BY MS. WOLFE:	4		2	of lawful age, Witness herein, having been first	
3	BY MS. JALICS: 11	.9		3	duly cautioned and sworn, as hereinafter	
4		-		4	certified, was examined and said as follows:	
5	EXHIBITS MARKED			5	CROSS-EXAMINATION	
6	(Thereupon, Plaintiff's Exhibit 1	52		6	BY MS. WOLFE:	
7	was marked for purposes of	JZ		7		
8	identification.)			-	Q. Would you please state your name	
9				8	for the record?	
	(Thereupon, Plaintiff's Exhibit 2	55		9	A. Waid Nelson Wallis.	
10	was marked for purposes of			10	Q. Good morning, Mr. Wallis. My name	
11	identification.)			11	is Leslie Wolfe and I'm the attorney	
12	(Thereupon, Plaintiff's Exhibit 3	63		12	representing the plaintiff in this case which	
13	was marked for purposes of			13	is Responsible Environmental Solutions	
14	identification.)			14	Alliance. Are you familiar with the	
15	(Thereupon, Plaintiff's Exhibit 4	99		15	litigation?	
16	was marked for purposes of			16	A. No.	
17	identification.)			17	Q. Okay. Well, this is a	
18				18	contribution case relating to a Superfund site	
19				19	which is the Trement landfill Consult and site in	
20				-	which is the Tremont landfill Superfund site in	
21				20	Clark County, Ohio. Are you familiar with that	
				21	site?	
22				22	 From many, many years ago, yes. 	
23				23	Q. And do you understand that you are	
24				24	here to be deposed today in connection with	
25				25	your work at that site?	
 						
			Page 3			Page 5
1 2	APPEARANCES: On behalf of the Plaintiff:			1	A. Yes.	-
3	Walter & Haverfield LLP			2	Q. Are you represented by counsel	
4	By: Leslie G. Wolfe			3	today?	
_	Attorney at Law			4	A. Yes.	
5	The Tower at Erieview			5	Q. And you have just indicated you	
6	1301 East Ninth Street Suite 3500			6	are represented by Mr. Dan Brown	
ľ	Cleveland, Ohio 44114-1821			7	are represented by Mr. Dan Brown	
7					A. Correct.	
	On behalf of the Defendant Waste Management,			8	Q who is here representing you	
8	Inc.: Tucker Ellic & Wort LLD			9	and Systech Environmental Corporation; is that	
10	Tucker Ellis & West LLP By: Courtenay Y. Jalics			10	correct?	
	Attorney at Law			11	A. That's correct.	
11	1150 Huntington Building			12	Q. Have you ever been deposed before?	
12	925 Euclid Avenue			13	A. Yes.	
12	Cleveland, Ohio 44115-1475 On behalf of the Defendant Systech:			14	Q. How many times?	
14	Frost Brown Todd LLC			15	A. Once.	
15	By: Daniel A. Brown			16	Q. What was that in connection to?	
1.0	Attorney at Law			17	A. That was in connection to a site	
16	300 North Main Street Suite 200			18	in Columbus, Ohio.	
17	Middletown, Ohio 45042-1919			19	Q. So that was a similar situation	
18	ALSO PRESENT:			20		
19	David Hagan				where you were being asked about your work at	
20 21	* * *			21	that site?	
21				22	A. Yes.	
23				23	Q. How long ago was that deposition?	
24				24	A. '96, I believe.	
25				25	Q. Who did you work for at that	
24 25				24 25		

2 (Pages 2 to 5)

3 (Pages 6 to 9)

		Dage			
1	particular site?	Page 6	1		Page 8
2	A. I worked for Systech. The site		1 2	Q. What is your current address?	
3	was subsequently sold through another what,		3	A. 3310 State Route 72 North,	
4	two other companies, and ended up being a			Cedarville, Ohio.	
5	Laidlaw site.		4 5	Q. How long have you lived there?	
6	Q. So what was that site called?			A. Roughly thirty years.	
7			6	Q. Do you live there alone?	
8	A. That was originally a Systech Liquid Treatment, Hillard, Ohio.		7	A. No.	
9			8	Q. Who do you live with?	
10	Q. You said it was near Columbus?		9	A. My wife.	
11	A. Yes, it is a suburb of Columbus.		10	Q. Anyone else?	
12	Q. Do you remember when that		11	A. No. Kids are all gone.	
	deposition took place?		12	Q. What is your date of birth?	
13	A. I believe it was '96, but that's		13	A. 12-12-46.	
14	about as good as I'm going to do.		14	Q. Happy birthday a few days ago.	
15	Q. Well, that's not too long ago so		15	A. A couple.	
16	you might remember some of the basic rules for		16	Q. Please tell me a little bit about	
17	depositions, but I'm going to go over them just		17	your education starting with high school and	
18	in case. Okay?		18	then moving beyond high school.	
19	A. Okay.		19	A. High school, Liberty Union Local	
20	Q. And the first and probably one of		20	Schools in Fairfield County, Ohio.	
21	the most important things to remember is to		21	Undergraduate BS in chemistry from Cedarville	
22	always give verbal responses and that is so the		22	College. Master's degree in chemistry from	
23	court reporter can take your answers down.		23	Wright State University.	
24	A. Okay.		24	Q. Any other graduate or postgraduate	
25	Q. Because she can't take down any		25	degrees?	
		Dane 7			
1	head nod or shaking of the head or um-hums.	Page 7	1		Page 9
1 2	head nod or shaking of the head or um-hums. Those are hard to record.	Page 7	1	A. No.	Page 9
	head nod or shaking of the head or um-hums. Those are hard to record. A. Yes.	Page 7	2	A. No. Q. Did you undertake any other	Page 9
2	Those are hard to record. A. Yes.	Page 7	2 3	 A. No. Q. Did you undertake any other training or education in your field? 	Page 9
2 3	Those are hard to record. A. Yes. Q. Also, we should both try not to	Page 7	2 3 4	 A. No. Q. Did you undertake any other training or education in your field? A. Numerous courses and seminars on 	Page 9
2 3 4	Those are hard to record. A. Yes. Q. Also, we should both try not to interrupt each other. That means I will wait	Page 7	2 3 4 5	 A. No. Q. Did you undertake any other training or education in your field? A. Numerous courses and seminars on various aspects. I'm also a CHMM which is a 	Page 9
2 3 4 5	Those are hard to record. A. Yes. Q. Also, we should both try not to interrupt each other. That means I will wait for you to give your full responses before I	Page 7	2 3 4 5 6	 A. No. Q. Did you undertake any other training or education in your field? A. Numerous courses and seminars on various aspects. I'm also a CHMM which is a certified hazardous material manager. It's one 	Page 9
2 3 4 5 6	Those are hard to record. A. Yes. Q. Also, we should both try not to interrupt each other. That means I will wait for you to give your full responses before I ask you the next question and please wait until	Page 7	2 3 4 5 6 7	 A. No. Q. Did you undertake any other training or education in your field? A. Numerous courses and seminars on various aspects. I'm also a CHMM which is a certified hazardous material manager. It's one of the certifications for the business. 	Page 9
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	Page 10		Page	e 12
1	Q. What is the business of Systech	1	Systech in March of 1980, where did you work?	
2	Environmental Corporation?	2	A. I had worked for a government	
3	A. Systech Environmental is a	3	contractor at Wright-Patterson Air Force Base	
4	wholly-owned subsidiary of Lafarge Cement and	4	that was Stevens Company out of Newport,	
5	its primary function is to provide alternative	5	Kentucky.	
6	fuel for the cement kiln.	6	Q. How long did you work there?	
7	Q. For the cement what?	7	A. About seven years.	
8	A. Kiln, KILN. It's a big long	8	Q. So does that mean that you worked	
9	tube that you throw rocks in at one end and	9	there from about '73 until 1980?	
10	fire in at the other and you make cement when	10	A. I believe I started working for	
11	it comes out.	11	started working for Stevens in the fall of '72	
12	Q. And that creates just ordinary	12	when I finished graduate school.	
13	cement that would be used in building projects?	13	Q. So was there a period of time in	
14	A. Yes, Portland Cement.	14	the late '70s or early '80s when you worked for	
15	Q. So prior to '98, were you still	15	IWD or one of the IWD companies?	
16	working for Systech at that time?	16	A. I worked for IWD for a little less	
17	A. I don't remember when I came back.	17	than a year after I left Stevens Company and	
18	I believe it was March of '97 when I started	18		
19	back at Systech.	19	before I went to work for Systech the first time.	
20	Q. So are you indicating that there	20		
21			Q. Do you remember giving an	
22	was a time period when you were away from	21	interview in connection with the Tremont	
22	Systech and then came back?	22	landfill a few years ago?	
	A. Yes. I had worked for Systech	23	A. Yes.	
24	from March of 1980 until they sold the liquid	24	Q. Do you recall in that interview	
25	treatment division which I believe was July of	25	stating that you worked for IWD from about	
1	Page 11 '82. And when that division was sold I went	1	Page spring of '79 until spring of 1980?	e 13
2	with the group that took that over which was	2	A. That's about right.	
3	Tricell.	3	Q. You would say that was probably	
4	Q. How long were you with Tricell?	4	the period of time that you worked for IWD?	
5	A. Until they were sold to Laidlaw			
		E	A Voob I know it was March of 100	
16		5	A. Yeah. I know it was March of '80	
6	which was about 1991 or '92, somewhere in	6	A. Yeah. I know it was March of '80 when I left there because that's when Chemical	
7	which was about 1991 or '92, somewhere in there.	6 7	A. Yeah. I know it was March of '80 when I left there because that's when Chemical Waste Management purchased the site.	
7 8	which was about 1991 or '92, somewhere in there. Q. And then what happened?	6 7 8	 A. Yeah. I know it was March of '80 when I left there because that's when Chemical Waste Management purchased the site. Q. Were you ever employed by Chemical 	
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4 (Pages 10 to 13)

1				
	Page 14		Pa	ge 16
1	A. There were several companies. The	1	time they had decided that they wanted to get	-
2	company that I worked for was IWD Chemical	2	out of this phase of the business.	
3	Disposal of Ohio. There was also an IWD	3	Q. Were you involved in any work to	
4	Chemical Disposal of Indiana and an IWD and	4		
			close the barrelfill site or any of the other	
5	I'm not sure if I've got it was chemical	5	sites that were closed at the time that	
6	transportation or something with	6	Chemical Waste Management came in?	
7	transportation. It was the trucking part of	7	A. The barrelfill had been closed at	
8	that operation.	8	the very end of '79 so there was no activity in	
9	Q. Was it IWD Liquid Waste, Inc.? If	9	1980 at the barrelfill.	
10	you're not sure	10	Q. What took place to close it at the	
11	A. I'm not sure how the structure	11	end of '79?	
12	was. They were all there were several	12		
13			A. They had made a decision that they	
	independent companies but they were all under	13	did not want to operate that barrelfill in the	
14	one IWD umbrella.	14	future and I don't know exactly all of the	
15	Q. Who was the parent company of	15	there's a supposition in my mind, but I don't	
16	these entities you're referring to?	16	know that it's true so I'm not going to say it.	
17	All of them were owned by the	17	Q. So do you recall when the last	
18	construction company I can't think of the	18	drums went into the barrelfill?	
19	name. It's a big construction company here in	19	A. December 31st, 1979.	
20	Dayton. I can't think of the name right now.	20	Q. They were disposing of drums up	
21	Q. Are you trying to think of Danis?	21	until the very last day of 1979?	
22	A. Danis, that's correct. They were	22		
23			A. Yes.	
	all owned by Danis.	23	Q. Was there a push at the end of '79	
24	Q. Do you remember which Danis entity	24	to get as many drums buried as possible?	
25	was the parent company?	25	A. Absolutely.	
	Page 15		Pa	age 17
1	A. No, I don't.	1		age 17
	A. No, I don't.	1	Q. What else do you remember about	age 17
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5 (Pages 14 to 17)

	Page 18			Page 20
1	have indicated? Let me rephrase that. Was it	1	sites for disposal.	
2	just that more drums were buried during that	2	Q. I would like to go through all of	
3	time because the end of the year was coming up?	3	those different responsibilities with you one	
4	A. I don't know that there were more	4	by one in some more detail.	
5	drums buried than normal, but I know that the	5	A. Okay.	
6	push was to make sure that all of the drums	6	Q. Did you say that you tested	
7	they had on site to be buried were buried	7	materials?	
8	before they closed out.	8	A. Yes. We had an on-site	
9	Q. And were they able to do that?	9	laboratory.	
10	A. I believe so because they had	10	•	
11	stopped receiving new material prior to that	11	Q. What materials did you test in	
12			that laboratory?	
13	time knowing that they were going to close it	12	A. We tested samples that the	
	out.	13	salesmen brought in to qualify the waste	
14	Q. How much prior to that time did	14	streams. We tested materials from incoming	
15	they stop receiving new material?	15	truckloads, both bulk and drum, and after the	
16	A. I don't know.	16	initial sorting of materials on outgoing loads,	
17	Q. Do you think it was a matter of	17	we would do tests, depending on which site it	
18	weeks or months?	18	was going to to qualify the material into	
19	A. Since they never had more than a	19	another site and we did in addition to that,	
20	week or two's worth of material on site to	20	we did QC work for like the oil recovery, the	
21	bury, I would say it was weeks, but, again, I	21	recovered oil that we were selling.	
22	don't have anything other than just kind of	22	Q. What's QC work?	
23	that's how much they had on site.	23	A. Quality control.	
24	Q. From January 1st, 1980 until the	24	Q. You mentioned that you tested	
25	time you left, were there drums on site in the	25	samples of waste streams that the salesmen	
<u> </u>				
	Page 19			Page 21
	yard or in any area of the site that normally	1	would bring in?	
2	would have been buried? Let me rephrase that.	2	A. Yes.	
3	Was there a yard where drums were stored?	3	Q. Which salesmen are you referring	
4	A. Yes.	4	to? And I don't mean identifying by name, I	
5	Q. And did that yard have any drums	5	mean who were the salesmen employed by?	
6	in it after the site closed?	6	A. An excellent question. I think	
7	A. They have to be kind of the	7	they were actually I think they were	
8	rest of the operation continued. The	8	actually employees of the transportation	
9	barrelfill was closed the end of 1980, but we	9	company.	
10	continued to be operating as far as oil	10	Q. Were they employees of any of the	
11	recovery, shipping, receiving, shipping	11	generators of waste?	
12	materials to other sites which were all ongoing	12	A. No, these salesmen were IWD	
13	processes, so only one piece of the total	13	salesmen.	
14	operations stopped.	14	Q. Did you have representatives from	
15	MR. BROWN: Just to be clear, I	15	any of the generators bringing samples of waste	•
16	thought you said the barrelfill had closed the end	16	to be tested or to be disposed of?	e
17	of 1980,	17	A. We did get site visits from	
18	THE WITNESS: 1979. Pardon me.	18		
		10	customers, generator representatives, and it's	
		10		
19	Q. What did your work consist of	19	possible I don't remember. It's probable	
19 20	Q. What did your work consist of after this barrelfill closed before you left	20	that they had brought samples to us at one time	e
19 20 21	Q. What did your work consist of after this barrelfill closed before you left your employment there?	20 21	that they had brought samples to us at one time or the other to see if we could do something	e
19 20 21 22	 Q. What did your work consist of after this barrelfill closed before you left your employment there? A. It was pretty much the same as 	20 21 22	that they had brought samples to us at one time or the other to see if we could do something with them.	e
19 20 21 22 23	 Q. What did your work consist of after this barrelfill closed before you left your employment there? A. It was pretty much the same as before. We qualified waste streams. We did 	20 21 22 23	that they had brought samples to us at one time or the other to see if we could do something with them. Q. Did you test a sample of every	e
19 20 21 22 23 24	 Q. What did your work consist of after this barrelfill closed before you left your employment there? A. It was pretty much the same as before. We qualified waste streams. We did all of the laboratory testing, operated the oil 	20 21 22 23 24	that they had brought samples to us at one time or the other to see if we could do something with them. Q. Did you test a sample of every waste that was disposed in the barrelfill?	e
19 20 21 22 23	 Q. What did your work consist of after this barrelfill closed before you left your employment there? A. It was pretty much the same as before. We qualified waste streams. We did 	20 21 22 23	that they had brought samples to us at one time or the other to see if we could do something with them. Q. Did you test a sample of every	e

6 (Pages 18 to 21)

7 (Pages 22 to 25)

	Page 22		Page 24
1	that came into the site was first sampled and	1	that, it would be put into a bulk load of
2	paperwork obtained by the sales representative	2	solvents going out to be incinerated. If they
3	that went out. That came in. We did the	3	were oil samples, obviously they went into the
4	initial testing, qualified it to whether or not	4	oil recovery operation.
5	we could put it there or we had to send it off	5	Q. What if it was a sample of a type
6	for incineration or what the disposition. The	6	of waste that was acceptable for disposal in
7	salesmen used that information to do the	7	
8	pricing, get back to the customer the proposal	-	the barrelfill, what did you do with that
9	on what we could do for them.	8	sample?
		9	A. I believe all of those were put
10	When the trucks came in, samples	10	into the barrelfill, in a barrel put in the
11	were taken from either the bulk truck or the	11	barrelfill.
12	individual barrels that were on the truck to	12	Q. So the sample would be put into a
13	make sure that we knew which barrels were what.	13	barrel and then put into the barrelfill?
14	Every barrel had a waste qualification number	14	A. As far as I remember, that was the
15	which was then spray painted on the barrel for	15	way there may have been times when samples
16	identification purposes. And then as those	16	were dumped out of the bottles in a barrel to
17	barrels were taken out and loaded onto a truck	17	be put in the barrelfill.
18	to go into the barrelfill, the fellows that	18	Q. Were samples ever dumped straight
19	were running that checked that against the list	19	into a barrelfill cell without being dumped
20	of approved materials and recorded where in the	20	into a barrel first?
21	cells those materials were placed.	21	
22	Q. Okay. We're going to go through	22	A. I don't believe that ever
23	some of those steps one by one. With respect		happened. Just the logistics were the lab is
24	to the samples, did you say the samples would	23	over here, it's much easier to take the samples
25	to the samples, did you say the samples would	24	and dump them out at the lab rather than go way
23	come in prior to the load of waste coming in	25	back in the field someplace to dump out
	Page 23		
1	from the generator?	1	Page 25 bottles.
2	A. Yes.		
1 4		2	O Was there a policy or procedure
		2 3	Q. Was there a policy or procedure
3	Q. How large were the samples?	3	related to how those samples would be dealt
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8 (Pages 26 to 29)

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	Page 26		Page 28
1	Q. Names and/or positions, whatever	1	Q. Was he fired when Waste Management
2	you remember.	2	purchased the company?
3	A. A few names. In the we had	3	A. As far as I know, everyone the
4	several people in the laboratory. Our	4	announcement was generally everybody was laid
5	laboratory manager at that time was named Gary	5	off at the same time.
6	Karas, and that's with a K. We had Vaughn	6	Q. And you said you also supervised
7	Arthur.	7	Vaughn Arthur?
8	Q. What was Mr. Arthur's title or	8	A. Yes.
9	position?	9	Q. What was his responsibility at the
10	A. He basically was a technician	10	site?
11	taking samples from trucks and drums and we had	11	A. He took samples and helped some in
12	a couple of other guys who worked in the lab,	12	the lab.
13	and I can't remember their names.	13	
14	Q. Did you work with John Budding?	14	
15	A. The name sounds familiar. I'm		employees that actually placed drums or barrels
16	trying to put a face with it. I think John	15	in the cells?
17	worked in oil recovery, if I remember him.	16	A. Yes. Primary person in charge of
18	Q. I think that's correct.	17	that was Butch and I don't know his real
19	A. And yes. Okay. I can't	18	name Slaughter.
20	remember any of the names of the other surrout	19	Q. Was that Lester Slaughter?
21	remember any of the names of the other guys who	20	A. It could I don't know, but
22	were in oil recovery. Too far back.	21	he always went by Butch. I don't know what his
23	Q. Are you in touch with Gary Karas	22	real name was.
23	today?	23	Q. Was he responsible for that
	A. I have not talked with Gary for	24	operation in your recollection or
25	probably twenty years.	25	 He was certainly the supervisor of
1	Page 27		Page 29
1	Q. Do you know if he's still living	1	that area.
2	Q. Do you know if he's still living in the area?	2	that area. Q. And you're referring to
2 3	Q. Do you know if he's still living in the area? A. He had left the area at that time.	2 3	that area. Q. And you're referring to supervising the placement of drums?
2 3 4	 Q. Do you know if he's still living in the area? A. He had left the area at that time. He was somewhere in the northeastern part of 	2 3 4	that area. Q. And you're referring to supervising the placement of drums? A. Placement of the drums and also
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2 3 4 5 6	 Q. Do you know if he's still living in the area? A. He had left the area at that time. He was somewhere in the northeastern part of Ohio. Q. Do you know if at some point in 	2 3 4 5 6	 that area. Q. And you're referring to supervising the placement of drums? A. Placement of the drums and also the construction of the cells. Q. Do you recall who else he worked
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Mike Mobley Reporting 937-222-2259

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	Page 30		Page 32
1	work and we made sure that the record as far as	1	A. This is all very, very hearsay of
2	the cell logs were completed and turned in, but	2	people making fun of a former employee so
3	the actual day-to-day placement in the cells	3	they claim that he was so afraid of things
4	and how they were working there, I wasn't	4	there that they could easily get him to go into
5	involved in.	5	a faint just by faking the smell of cyanide
6	Q. Did you work at the site at the	6	anywhere near him and that was one of the
7	same time as Clyde Hill?	7	things that we did because we did handle
8	A. I believe he was gone by the time	8	cyanides. We taught everybody what the smell
9	that I came there though I heard a lot of	9	of cyanide smelled like just so that they
10	stories about him.	10	understood if you smelled this burnt almond
11	Q. Do you remember what his position	11	smell, it's time to leave. And so people would
12	was?	12	deliberately take some almond extract and put
13	 I believe he worked in the 	13	it someplace where Clyde Hill would smell it
14	laboratory.	14	and he would immediately get sick and faint, so
15	Q. Do you know if he had the same	15	I don't know if that's true or not.
16	position that you had?	16	Q. So you never witnessed that, but
17	A. No, I don't think he did. I think	17	from the looks of your expression you would
18	he was just a laboratory worker.	18	like to have witnessed that?
19	Q. Do you know who would have	19	A. I find it amusing, but there was a
20	supervised him?	20	certain amount of camaraderie among the people
21	A. Probably Gary Karas.	21	there that there was some stuff like that that
22	Q. So let me make sure this is	22	happened.
23	correct based on your testimony. You	23	Q. Was there anything else about
24	supervised Gary Karas?	24	Clyde Hill's work that you were told that was
25	A. Correct.	25	negative about Clyde Hill?
	Page 31		Page 33
1	Q. But you believe Gary Karas would	1	Page 33 A. Most of the people there did not
2	Q. But you believe Gary Karas would have been higher up on the ladder than Clyde	1 2	 Most of the people there did not
2 3	Q. But you believe Gary Karas would have been higher up on the ladder than Clyde Hill during the time Clyde Hill was there?		
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9 (Pages 30 to 33)

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	Page 34		Page 36
	site or whether the hearsay has anything to do	1	on that, gas chromatograph on that material on
2	with	2	the original sample. When the material would
3	A. I don't know that it has	3	come in they would take samples out of the
4	anything I think it was much more a	4	drums, verify that that looked the same. If it
5	personality thing than anything to do with his	5	was supposed to be methylene chloride, that in
6	work or how he was doing his work, but, again,	6	fact it was methylene chloride in the drum.
7	that's really hearsay.	7	Q. This was done in a visual
8	Q. Do you know whether he followed	8	A. No, this was done gas
9	procedures that were required to be adhered to	9	chromatograph. It's a laboratory instrument
10	at the site?	10	that separates organic compounds and gives you
11	A. No way of knowing that.	11	an indication of which compound you have in a
12	Q. Is there anyone that you worked	12	particular waste stream.
13	with that you know didn't follow procedures	13	Q. So you would run this test on the
14	with regard to the laboratory?	14	drums that came into the site?
15	A. Within the laboratory from the	15	A. Right.
16	time I was there, no, everybody was pretty	16	-
17	good.	17	Q. Did you run the test on every drum?
18	Q. Are you aware of anybody that	18	
19	didn't follow procedures or the law applicable	19	 A. Not that particular test because other materials had other tests that would be
20	to disposal of waste in the cells?	20	
21	A. As far as disposal in the cells,	21	run on them so it really depended on if it's
22	no. We fired one or two people for violating	22	an organic waste, you would run a gas
23	work rules and things, but it was more related	22	chromatograph. If it were an acid, you would
24	to safety aspects than the disposal of the		look at pH. If it were a some samples were
25	materials.	24	done visually. If we got a drum that said it
		25	was peanut butter and we opened it up and it
	Page 35	1	
1	Q. I would like to ask you some	1	Page 37
2	questions about the process for dealing with	2	looked like peanut better, we pretty much said
3	waste that came into the site.	3	okay, that's peanut butter, knowing what site
4	A. Okay.		it came from and what it looks like, that would
5	Q. What happened with drummed waste	5	go on.
6	that came in on a truck into the site?	6	Q. How did you determine which wastes
7	A. Well, if we can step back a step		would actually be tested chemically versus
8	before that, the procedure was that you	8	wastes where you felt it wasn't necessary
9	qualified the waste streams first and each	9	because you could tell visually what it was?
10	waste stream was assigned a code number, so	-	A. I think as we qualified the waste
11	that when the drums came to the site you had a	10 11	streams we pretty much determined what we were
12	number on the barrel which you could then open	12	going to do when it came in as far as tests.
13	the barrel, take a sample, confirm that what	1	Q. Did you know which wastes to
14	was in the barrel was what the generator said	13	expect to see so many in on each particular day
15	it was. Then once that happened, the drums	14 15	or was it a surprise what wastes would come
16	were sorted as to what their disposal method	16	into the site?
17	would be, and that was done in the drum area.	10	A. That depended on the customer. We
18	Q. Let me just interrupt you for a		had certain customers who would say I've got
19	moment and go back. How did you confirm that	18	this waste stream, so many drums of this, so
20	what was in the drum was actually what it	19	many drums of that that would come in. We had
21	was what the code number indicated that it	20	other customers where we went there every week
22	was?	21	or in some cases every day and picked up drums,
23		22	and in those cases while they were all
24	A. It depended on the type of waste. If someone were telling us we're sending you a	23	qualified, we would go and pick up whatever
25	drum of chlorinated solvent, we would run a GC	24	drums they had, bring them back and then sort
	and the chief mateur solvency we would run a GC	25	them when they came back in. And that in
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	Page 38		Page 40
	particular was like Procter & Gamble out of	1	disposal method was to have that sent to a site
2	Cincinnati which was a very large customer and	2	that would treat the cyanide to destroy it.
3	there was one or two truckloads a day that	3	Q. Were there any waste streams that
4	would come from them. And the majority of that	4	contained cyanide that would have been accepted
5	material was pretty innocuous. It was food	5	for disposal in the barrelfill?
6	waste, detergent samples, materials like that	6	A. There are probably trace amounts
7	which weren't what we would think of as a high	7	of cyanide in some of the metal plating
8	risk type material.	8	sludges, but it would be a fairly low level. I
9	Q. Was the food waste and detergent	9	can't think of anything else that we dealt with
10	that you just mentioned from Procter & Gamble	10	that had cyanide in it.
11	in drums?	11	
12	A. Yes.	12	Q. Do you know when the site was
13	Q. Was it ever in bulk form?		permitted to bury materials that had a trace
14	A. I don't think we ever took	13	amount of cyanide?
15	anything from Drogter 8. Completing hulls	14	A. Too long ago for me to remember
16	anything from Procter & Gamble in bulk.	15	what was in the permit.
17	Q. I want to go back just a minute to	16	Q. Is your recollection that whatever
	something you said earlier regarding cyanide.	17	was accepted for disposal was permitted by law?
18	What handling of cyanide did the site	18	A. Yes.
19	undertake?	19	Q. And you do recall that plating
20	A. If we had a cyanide waste stream,	20	waste that contained a trace amount of cyanide
21	it was typically from a plating company. Those	21	was disposed of?
22	materials would come in, we would sample them,	22	A. Well, wait a minute, I said we
23	look at the amount of cyanide in there because	23	took plating waste and it was probable there
24	that was important from an economic standpoint.	24	was trace amounts left in there. I don't know
25	The disposal cost is based on percentage of	25	if it was there or not.
	Page 39		Page 41
	cyanide. Initially we would look at the metals	1	Q. But the plating waste was disposed
2	so that we could qualify that into a cyanide	2	of at the site?
3	destruction company and then those drums were	3	 Yes, there were plating waste
4	reloaded onto as a truckload to go to a	4	sludges that were disposed of
5	treatment site for cyanide.	5	Q. Do you recall in general terms how
6	Q. Did you do any processing of	6	much plating waste or what proportion of the
7	cyanide at the site?	7	waste?
8	A. No.	8	A. Small amount compared to the other
9	Q. Did you dispose of any cyanide at	9	materials.
10	the site?	10	Q. A small amount. Would that be in
11	A. No.	11	
12	Q. You hesitated for a minute. Did	12	the, you know, tens of drums or hundreds of
13	you think of anything	12	drums if we're talking about what the site took
14	A. I was just thinking was there		in in a week? Can you put in a number on it in
15	anything that was cyanide and I don't think	14	that regard?
16	there was. We did dispose of plating waste,	15	A. It would be closer in the tens
17	but it was all treated plating waste,	16	than anything else in any week and typically
18	Wastewater treatment eludered and the	17	you would get that from a plating company so if
19	wastewater treatment sludges, and those	18	you got drums from them you might get a drum
20	typically would not have cyanide left in them.	19	and then not see them again for several months
120	Q. I'm not a chemist so I might have	20	before they had another group of drums ready.
		21	Q. Do you know which plating company
21	a few maybe seemingly elementary questions for		
21 22	you. Would you explain why cyanide would not	22	generated that waste?
21 22 23	you. Would you explain why cyanide would not be disposed of at the site?	22 23	generated that waste? A. There were several plating
21 22 23 24	you. Would you explain why cyanide would not be disposed of at the site? A. Most of it was in liquid form in		generated that waste? A. There were several plating
21 22 23	you. Would you explain why cyanide would not be disposed of at the site?	23	generated that waste?

11 (Pages 38 to 41)

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12 (Pages 42 to 45)

	Page 42		Dogo 44
1	MS. WOLFE: Go off the record for	1	Page 44 is separately.
2	just a minute.	2	Q. Were there any safeguards to
3	(Pause in proceedings.)	3	prevent compositing samples of different wastes
4	Q. Mr. Wallis, earlier you talked	4	if perhaps they were labeled as the same waste
5	about sampling of waste that came in to the	5	but in fact they weren't the same waste?
6	site,	6	
7	A. Yes.	7	A. Well, that went back to the
8	Q. And what I would like to know is		chemist. If he got two different waste streams
9	was every drum that came into the site sampled?	8	and they were significantly different, even if
10		9	they had been composited, when he compared the
11	A. The procedure was to take a sample	10	result of his test to the original sample, he
12	out of every drum that came in and then the lab	11	would say they don't match and at that point
13	would make a decision as to can we composite	12	then you go back and you look at each drum.
	this group of drums and run the test as a group	13	Q. And you when you say original
14	or do we need to do them individually because	14	sample, you mean the one that might have been
15	they physically looked different or seemed to	15	received previously before the load came in?
16	be different materials and so we wanted to look	16	A. Right.
17	at them separately.	17	Q. And what was the purpose of
18	Q. So are you saying	18	testing those samples?
19	A. No, I cannot	19	A. Several purposes, I guess. One of
20	Q. I'm sorry.	20	the main reasons obviously is we were being
21	A tell you that every drum was	21	paid to take certain materials and if somebody
22	sampled because I was not out in the drum yard	22	shipped something else to us, it might cost us
23	to see that, but the procedure was that every	23	a lot more to ship that to a different disposal
24	drum be sampled. As far as I know, every drum	24	site and we wanted do make sure that we were
25	was sampled.	25	charging the right amount to the customer and
1	Page 43 Q. When you say sampled, you mean a	1	Page 45 we also wanted to make sure we were shipping it
2	portion of the waste was removed from the drum?	2	to the right disposal site. We wouldn't want
3	A. Correct.	3	to ship a drum of chlorinated solvent which we
4	Q. But that portion of waste might	4	could sell to an incinerator and pay to have it
5	not necessarily have been tested, am I correct?	5	burned if we could sell it to a company to
6	A. It would either be tested by	6	reclaim the chlorinated solvent and there's
7	compositing it with portions from other drums	7	also safety aspects to that. We put oil into
8	or it would have been tested individually, so	8	our oil process facility and we wouldn't want
9	not the test wasn't necessarily done on each	9	to put a low flash material in there which
10	individual drum by itself but it might have	10	might cause a fire in that part of the plant.
11	been included with, say, if you had ten drums	11	So there's several reasons why you wanted to
12	from the same generator of the same waste code	12	know what was in the drums.
13	and then they brought the samples in, they all	13	Q. So of the drums that were destined
14	looked the same, typically you would composite	14	for disposal in the barrelfill, was there any
15	that by taking a small portion out of each of	15	effort to separate the waste types so that
16	those samples to put them together.	16	particular wastes went into particular cells?
17	Q. So the decision to composite	17	A. Typical operation was there was
18	samples from different drums was made based on	18	one cell at a time opened. Occasionally as
19	how they were identified by the generator and	19	you're finishing out an old cell, finished
20	how they looked?	20	filling this, you have got a new one built
21	A. Yes. Now, the chemist had the	21	ready to start putting materials in, but the
22	leeway to look at those and say yes, I can do	22	normal operation was to fill the cell that's
23	that or no, this one looks different or has a	23	open. The materials were compatible. It
24	different pH or something and so we're going to	24	wasn't the case of if I put this drum next to
25	hold that one separately and figure out what it	25	this drum the two of them are going to react
1	-	-	and the the third and going to react

	Page 46		Page 48
1	and cause some sort of a problem so, no, there	1	A. I would say maybe less than ten
2	was no need for segregation of the materials.	2	percent. Maybe less than five percent.
3	Q. When you said that the materials	3	Q. Do you remember which generators
4	were compatible, do you mean that the materials	4	would generate waste in plastic drums?
5	that were acceptable for drum disposal were all	5	A. No.
6	safe to mix together?	6	Q. Do you remember what types of
7	A. Well, they were certainly safe to	7	wastes were in the plastic drums that went into
8	put in the same cell. You wouldn't get if	8	the cells?
9	you took this material, some of this and some	9	A. No. I would say the choice of a
10	of this and poured it together, you wouldn't	10	plastic drum was probably because they had it
11	get a reaction that would be adverse to the	11	more than that they needed a particular drum
12	health and safety of the people there or cause	12	for that particular waste stream. It's just at
13	some problem down the road in the cell.	13	that point in time almost all of the drums that
14	Q. And is it correct to say that the	14	we get were because the company had received
15	drums were not intended to keep that mixing	15	we got were because the company had received
16	that you just described from happening?	16	something in the drum, used up that raw
17	A. No.	17	material and then placed the waste that they
18	Q. But rather to encapsulate them	18	were shipping out in the drum so that they
19	temporarily?		didn't have to buy new drums.
20	A. We expected that the drums would	19 20	Q. What would the lifespan of a
21	eventually decay, but we also expected that	20	plastic drum be in comparison to a metal drum?
22	because the cells were in a very heavy clay and	22	A. I would expect plastic drums to
23	very well capped, that the drums would last for	23	last almost forever in there. There's no
24	a long, long time before they decayed out of	23	reason for them to deteriorate. They weren't
25	there.	24	exposed to light or anything to cause them to
		25	deteriorate in the ground.
	Page 47		Page 49
1	Q. How long do you think that long,	1	Q. So a plastic drum would last even
2	long time would actually be?	2	longer than a metal drum?
3	A. Pure speculation, we guessed it	3	A. Yes, I would think so.
4	had at least thirty years before these drums	4	Q. Was there any other kind of
5	would have been gone.	5	material that a drum would be made out of?
6	Q. It's been about thirty years.	6	A. The only other kind of drum that I
7	A. Yeah, and I don't know. I don't	7	know of is a fiber drum which is a hard paper,
8	know if anybody has dug any up to see how	8	but I don't ever remember receiving anything
9	intact or nonintact those drums may be.	9	for the barrelfill in fiber drums.
10	Q. Now, when you refer to that	10	Q. Is it possible that some were
11	speculation of a thirty year life on the drums	11	received, even though you don't remember it?
12	before they decay, are you referring only to	12	A. It's possible that could have
13	metal drums or are you referring to all types	13	happened. And it could have happened before I
14	of drums?	14	was there too.
15			
	A. We're talking about metal drums	15	Q. Did the site accept any kind of
16	A. We're talking about metal drums which probably ninety plus percent of the drums	15 16	Q. Did the site accept any kind of drum or only certain kinds of drums?
16 17	A. We're talking about metal drums which probably ninety plus percent of the drums that went into that drumfill were metal drums.		Q. Did the site accept any kind of drum or only certain kinds of drums? A. I'm not sure I understand the
16 17 18	 A. We're talking about metal drums which probably ninety plus percent of the drums that went into that drumfill were metal drums. Q. What other types of drums went in? 	16	drum or only certain kinds of drums?
16 17 18 19	 A. We're talking about metal drums which probably ninety plus percent of the drums that went into that drumfill were metal drums. Q. What other types of drums went in? A. The only other type of drum may 	16 17	drum or only certain kinds of drums? A. I'm not sure I understand the question.
16 17 18 19 20	 A. We're talking about metal drums which probably ninety plus percent of the drums that went into that drumfill were metal drums. Q. What other types of drums went in? A. The only other type of drum may have been some plastic drums. 	16 17 18	drum or only certain kinds of drums? A. I'm not sure I understand the question. Q. Was there any kind of drum that
16 17 18 19 20 21	 A. We're talking about metal drums which probably ninety plus percent of the drums that went into that drumfill were metal drums. Q. What other types of drums went in? A. The only other type of drum may have been some plastic drums. Q. What proportion of the total drums 	16 17 18 19	drum or only certain kinds of drums? A. I'm not sure I understand the question.
16 17 18 19 20 21 22	 A. We're talking about metal drums which probably ninety plus percent of the drums that went into that drumfill were metal drums. Q. What other types of drums went in? A. The only other type of drum may have been some plastic drums. Q. What proportion of the total drums do you think were plastic? 	16 17 18 19 20 21 22	drum or only certain kinds of drums? A. I'm not sure I understand the question. Q. Was there any kind of drum that for any reason wouldn't have been an acceptable
16 17 18 19 20 21 22 23	 A. We're talking about metal drums which probably ninety plus percent of the drums that went into that drumfill were metal drums. Q. What other types of drums went in? A. The only other type of drum may have been some plastic drums. Q. What proportion of the total drums do you think were plastic? A. It was a very small portion. 	16 17 18 19 20 21 22 23	drum or only certain kinds of drums? A. I'm not sure I understand the question. Q. Was there any kind of drum that for any reason wouldn't have been an acceptable way to bury waste? A. Certainly any drum that we took had to be sound. In other words, it couldn't
16 17 18 19 20 21 22 23 24	 A. We're talking about metal drums which probably ninety plus percent of the drums that went into that drumfill were metal drums. Q. What other types of drums went in? A. The only other type of drum may have been some plastic drums. Q. What proportion of the total drums do you think were plastic? A. It was a very small portion. Q. Less than ten percent of the total 	16 17 18 19 20 21 22 23 24	drum or only certain kinds of drums? A. I'm not sure I understand the question. Q. Was there any kind of drum that for any reason wouldn't have been an acceptable way to bury waste? A. Certainly any drum that we took had to be sound. In other words, it couldn't be in such a deteriorated state that it was
16 17 18 19 20 21 22 23	 A. We're talking about metal drums which probably ninety plus percent of the drums that went into that drumfill were metal drums. Q. What other types of drums went in? A. The only other type of drum may have been some plastic drums. Q. What proportion of the total drums do you think were plastic? A. It was a very small portion. 	16 17 18 19 20 21 22 23	drum or only certain kinds of drums? A. I'm not sure I understand the question. Q. Was there any kind of drum that for any reason wouldn't have been an acceptable way to bury waste? A. Certainly any drum that we took had to be sound. In other words, it couldn't

13 (Pages 46 to 49)

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1	Page 50		Page 52
1	coming in. And typically the transportation	1	to well, occasionally a handwritten sheet
2	company wouldn't load a drum that didn't look		and then later I believe we went to typing them
3	good and to be in good shape because they had	3	out so that the people could read them easier.
4	to transport it down the highway and you don't	4	(Thereupon, Plaintiff's Exhibit 1 was
5	want it to fall apart or fall off the truck or	5	marked for purposes of identification.)
6	do something on the highway.	6	Q. Mr. Wallis, handing you what has
7	Q. Is there any other reason you		just been marked for identification purposes as
8	would want the drum to be in a sound condition	8	Wallis Deposition Exhibit 1, would you please
9	other than for ease of transportation?	°	
10	A. Well, as they constructed the	-	take a look at this document and tell me if you
11	cell, obviously they were stacked in there, so		have seen it before?
12		11	(Pause in proceedings.)
13	drum layer, then another drum layer and you	12	MS. WOLFE: And I'll represent that
	would want those drums to be sound enough so	13	this document consists of six pages.
14	that the next layer of drums wouldn't tip over	14	THE WITNESS: I don't believe I've
	or fall over because something gave way	15	seen this particular cell report before.
16	underneath of them.	16	Q. Have you seen similar cell
17	Q. Were there any other kind of	17	reports?
18	containers other than drums that were disposed	18	A. I've seen similar reports, but
19	of in the cells?	19	this cell finished in February of '79 which was
20	A. I don't believe so. I can't	20	probably just before I went to work there.
21	remember in the cells that there was anything	21	Q. But you have seen similar reports
22	there. There were materials that went into the	22	to this you said?
23	regular landfill down below that certainly	23	Á. Yes.
24	weren't drums, but in the drum fill itself, I	24	Q. And are you referring to the first
25	think everything was drums.	25	page that says cell report?
		<u> </u>	
	Page 51		Page 53
1	Q. Do you remember anything being	1	Page 53 A. Yeah, the cell report and the
2	Q. Do you remember anything being disposed of in a box in the cells?	1	A. Yeah, the cell report and the
	Q. Do you remember anything being		A. Yeah, the cell report and the sheets the back-up sheets for it.
2 3 4	Q. Do you remember anything being disposed of in a box in the cells?	2	 A. Yeah, the cell report and the sheets the back-up sheets for it. Q. Are these back-up sheets
23	Q. Do you remember anything being disposed of in a box in the cells?A. A box? Not that I remember.	2 3 4	 A. Yeah, the cell report and the sheets the back-up sheets for it. Q. Are these back-up sheets representative of the cell logs you were
2 3 4	Q. Do you remember anything being disposed of in a box in the cells?A. A box? Not that I remember.Q. Do you remember anything being	2 3 4 5	 A. Yeah, the cell report and the sheets the back-up sheets for it. Q. Are these back-up sheets representative of the cell logs you were referring to earlier?
2 3 4 5	 Q. Do you remember anything being disposed of in a box in the cells? A. A box? Not that I remember. Q. Do you remember anything being disposed of in a tub? A. No. 	2 3 4 5 6	 A. Yeah, the cell report and the sheets the back-up sheets for it. Q. Are these back-up sheets representative of the cell logs you were referring to earlier? A. Yes.
2 3 4 5 6	 Q. Do you remember anything being disposed of in a box in the cells? A. A box? Not that I remember. Q. Do you remember anything being disposed of in a tub? A. No. Q. Were you involved with any 	2 3 4 5 6 7	 A. Yeah, the cell report and the sheets the back-up sheets for it. Q. Are these back-up sheets representative of the cell logs you were referring to earlier? A. Yes. Q. Is this the same format that the
2 3 4 5 6 7	 Q. Do you remember anything being disposed of in a box in the cells? A. A box? Not that I remember. Q. Do you remember anything being disposed of in a tub? A. No. Q. Were you involved with any paperwork associated with waste disposal in the 	2 3 4 5 6 7 8	 A. Yeah, the cell report and the sheets the back-up sheets for it. Q. Are these back-up sheets representative of the cell logs you were referring to earlier? A. Yes. Q. Is this the same format that the cell logs were in when you were there?
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14 (Pages 50 to 53)

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	Page 54			Page 56
	during the time that you were there?	1	of the plastic material would last longer than	
2	A. Yes, it would.	2	the metal?	
3	MS. WOLFE: I'm not going to mark	3	A. Yeah. If you look at landfills,	
4	this document as an exhibit just yet. I'm just	4	when they have dug up other landfills, certain	
5	going to show you this document dated July 27th,	5	things seem to last forever in landfills and	
6	1979, see if that looks closer to the cell reports	6	plastic is something that once you put it in a	
7	you remember.	7	landfill seems to be there forever.	
8	A. Yes, this is more familiar. You	-		
9		8	Q. Did the plastic drums have the	
	actually have the number for each drum recorded	9	same structural integrity as metal drums would	
10	on the sheets.	10	have?	
11	Q. So now do you remember that	11	A. No. Not that they weren't strong	
12	typically the actual number for each drum would	12	enough for their purpose, but a plastic drum	
13	be separately written on that grid that you're	13	obviously is much more flexible in the side,	
14	looking at?	14	though they have pretty good top to bottom	I
15	A. On this, yes.	15		
16	Q. And you're referring to		strength.	
17		16	Q. Were plastic drums buried in the	
	A. What's called the landfill log	17	cells in the same method as metal drums?	
18	here.	18	A. Yes.	
19	MS. JALICS: Could we for the record	19	Q. Would you expect that that lower	
20	identify the date on the first page of that cell	20	structural integrity would lead to more	-
21	report?	21	likelihood of crumple or bending or denting of	
22	MS. WOLFE: I think it was July 27th,	22	the plastic drums?	
23	1979.	23	A. The way the drums were put into	
24	THE WITNESS: This one runs from June	24	the cells, they were set tight against the drum	
25	11th of '79 to June 18th of '79.	25	next to them so as to help size structure thind	1
		25	next to them so as to help give structure, kind	
	Page 55			Page 57
1	MR. BROWN: Those are the days of	1	of like interlocking blocks across the cell and	Page 57
2	MR. BROWN: Those are the days of start and finish of the report.	2	so I wouldn't expect that that would make any	Page 57
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15 (Pages 54 to 57)

		Page 58		Page 6
1	dry, they should last indefinitely. The only		1	in that glue. Trying to think of what other
2	thing that's going to deteriorate them is if		2	types of materials went in. There were paint
3	they get wet, obviously they lose their		3	sludges that went in. They might have some
4	structural strength, but the cells should have		4	moisture depending upon how the paint sludge
5	been fairly dry so I wouldn't expect any		5	was produced. Paint sludges from a waterfall
6	problem, even though I don't remember there		6	paint booth typically have some moisture in
7	being fiber drums buried there.		7	them. If it was a dry point beath there would
8	Q. Do you know whether all kinds of			them. If it was a dry paint booth there would
9	waste could be put in fiber drume er ente dru		8	be virtually no moisture in them.
	waste could be put in fiber drums or only dry		9	Q. So was there some food waste that
10	materials because you indicated that fiber		10	went in?
11	drums shouldn't be wet?		11	A. Yes.
12	Fiber drums are used for dry		12	Q. And some of that was peanut
13	materials. It's possible to put some moist	-	13	butter?
14	materials into fiber drums if you put a plastic		14	A. Some of that was peanut butter.
15	liner inside the fiber drum, but typically		15	Q. Was there any food waste that was
16	that's not done because the fiber drum is used		16	wet enough that hypothetically if there was a
17	for dry materials.		17	hole punched in a drum it would run out?
18	Q. Were the wastes that were buried		18	A. Some of it might ooze out. I
19	in the barrelfill cells wet or dry?		19	
20	A. They for the most part would pass			don't think anything would run out. It's kind
21	a paint filler test which means there can be		20	of like if you punched a hole in a tub of
22	a paint miler test which means there can be		21	peanut butter and squeezed on the drum or
23	some liquid encapsulated into the material but		22	something, you would get some oozing of the
	not as much as that if you drop this out it's		23	material.
24	going to have free flowing liquid out of it.		24	Q. What about with the latex glue
25	Q. So there was a range of wetness,		25	waste, was that something that would be loose
1	you would say?	Page 59	4	Page 6
1	you would say?	Page 59	1	enough to run or ooze out if a hole was punched
2	A. Sure. Anywhere from bone dry to	Page 59	2	enough to run or ooze out if a hole was punched in the drum?
2 3	A. Sure. Anywhere from bone dry to moist.	Page 59	2 3	enough to run or ooze out if a hole was punched in the drum? A. It's possible.
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16 (Pages 58 to 61)

		1	
	Page 62	•	Page 64
1	range of typical manufacturing process waste so	1	Q. What I would like to do is go
2	glues, inks, oils. Now, let me step back for a	2	through these categories and ask some questions
3	second. I'm just thinking of all the things we	3	of each one. Starting at the top where it says
4	received. Not all of those would end up in the	4	glues and resins, do you recall any of these
5	cells.	5	materials being disposed of in the barrelfill?
6	If you just want to talk about the		
	colle. The get to think a little bit. The	6	A. Yes, several of those I can say
	cells, I've got to think a little bit. I'm	7	for certain were in the barrelfill.
8	thinking of all the things that came to the	8	Q. Several you can or cannot say?
9	site. But in the cells themselves, because	9	A. I can say for sure they were
10	it's heavily automotive related businesses in	10	there.
11	the area, there were a lot of paints and polyol	11	Q. Which ones?
12	and some glues, some plating sludges and that	12	A. The adhesive, the Bondalube
13	was pretty much all automotive manufacturing	13	sludge, the cement and glue, latex paints,
14	related. And then the other big category was	14	
15	the food and consumer products, the determent		coatings, grease.
16	the food and consumer products, the detergent	15	Q. Anything else in that category?
	samples. Procter & Gamble routinely took a	16	A. Polyester, polyol, polyol paint,
17	little box of soap out of every so much soap	17	polyvinyl adhesive. I'm not probably was
18	powder that they made and they did their	18	there, polyurethane. I'm not sure that styrene
19	quality control on that and then they take that	19	or styrene monomer was buried because typically
20	little box and throw it into a drum so you have	20	that would have been sent for incineration.
21	drums of detergent.	21	Q. Why is that?
22	Q. Would it help you to remember if I	22	A. Styrene and styrene monomer are
23	showed you a list that was generated after the	23	A. Stylene and stylene monomer are
24	barrelfill closed but it's a compilation of		very flammable and very high heat value and I
25	materials that might have been there?	24	think typically that would have been sent for
25	materials that might have been there?	25	incineration. I don't remember ever seeing
	Page 63		Page 65
1	A. Sure.	1	Page 65 chlorinated polyol. That would be a that
2	A. Sure.Q. And you can tell me if you have an		chlorinated polyol. That would be a that
		2	chlorinated polyol. That would be a that would have been a strange compound.
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17 (Pages 62 to 65)

					dillS
		Page 66		Page	68
1	have that on the list because we do not bury		1	burned.	
2	that either. It is a very reactive material		2	Q. And that mattress that was the end	
3	and so it was sent out for incineration also.		3	production of mixing polyol and TDI, where was	
4	Though I I would say most of that was sent		4	that disposed of?	
5	for incineration. Near the end of that time we		5	A. It was either I think most of	
6	were treating some of it on site to neutralize		6	it was put into the sanitary landfill.	
7	it.		7	Q. Where was the rest of it put?	
8	Q. What was the treatment process?		8	A. There may have been some of it	
9	A. You mix TDI and polyol together		9	that was put into a drum cell, but I can't	
10	and you get urethane rubber.		10	remember for sure which way we ended up. I	
11	Q. And you would do that on site?		11	think most of it ended up going down to the	
12	A. We did that on site.		12	saniter,	
13	Q. Did you do that with all of the		13	Q. You have a recollection of some of	
14	polyol that came on site?		14	it being put into a drum cell?	
15	A. No. It was a small portion of the		15		
16	material.		16	A. No, but I don't have a	
17	Q. Did you do it with all of the TDI		17	recollection that it wasn't, so I'm not certain	
18	that came on the site?		18	that it was put into the drum cell but I know	
19	A. I would say over the period of			that they did take a lot of it and put it into	
20	time most of the TDI was sent off site but we		19	the saniter.	
21	did do some of this near the end of the time		20	Q. Do you think it's possible if it	
22	that I was there we did do some of this on		21	went into the drum cell it would have been put	
23	site.		22	into a drum?	
24			23	A. No, it would not have been put	
25	Q. And would you go through the		24	into a drum. It was big chunks of foam rubber	
25	process of how the polyol and TDI were		25	and they moved it with like a bulldozer.	
		Page 67			
1	combined?	Page 67	1	Page	69
1 2	combined?	Page 67	1	Q. Now, you mentioned earlier	69
2	combined? A. We would go out on a section of	Page 67	2	Q. Now, you mentioned earlier chlorinated polyol which is on this list?	69
23	combined? A. We would go out on a section of the ground there, put in about, oh, a foot to	Page 67	2 3	Q. Now, you mentioned earlierchlorinated polyol which is on this list?A. Yeah, and I don't remember ever	69
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18 (Pages 66 to 69)

		T	
	Page 70		Page 72
1	rubber for a long, long time. Polyvinyl is a	1	A. Certainly we did lots of paint
2	PVC, polyvinyl chloride, so if you had a	2	sludge, paint filters. I don't remember
3	polyvinyl adhesive it would have a fair amount	3	lacquer as a category. That's another one of
4	of chlorine included in that. I think that's	4	these things that that's fairly liquid, highly
5	the only ones I see there that would have been	5	flammable and would have been sent for
6	chlorinated.	6	
7			incineration unless they are talking about a
8	Q. Do you recall the disposal of	7	sludge or a dried material, but certainly the
	neoprene in the cells?	8	other categories, yes, we did a lot of paint
9	A. No, I don't.	9	sludge.
10	Q. Do you recall the disposal of	10	Q. Do you recall any paint sludge or
11	polyvinyl adhesive in the cells?	11	anything in this category being disposed of in
12	A. We disposed of a lot of adhesives	12	bulk in the barrelfill cells?
13	and it wouldn't surprise me if some of it was	13	A. No.
14	polyvinyl, but I don't have any real	14	Q. Did any of these materials contain
15	recollection of whether it was there or not.	15	chlorinated organics or would they be
16	Q. Of all the materials in the glues	16	considered to be chlorinated organics?
17	and resins category that's listed here on the	17	
18	exhibit that you recall being disposed of in		A. Typically not. The paint, again,
19	the colle was there are thing disposed of II	18	a lot of this was from auto manufacturing and
	the cells, was there anything disposed of in	19	there would have been lacquers or enamels and
20	bulk rather than in a container?	20	those aren't chlorinated, so I wouldn't expect
21	A. I don't remember ever having any	21	to see anything from that.
22	of that in bulk. Almost all of this came from	22	Q. What chemicals would you typically
23	the manufacturers in drums.	23	find in paint sludge?
24	Q. Was there anything that came from	24	A. Paints are made up of pigment to
25	the manufacturer in drums that would have been	25	give it color, a resin which can be any number
		1	
1.	Page 71		Page 73
1	emptied out of the drums and disposed of in the	1	Page 73 of polymers and a vehicle which is the solvent
2			of polymers and a vehicle which is the solvent
	emptied out of the drums and disposed of in the cell?	2	of polymers and a vehicle which is the solvent that keeps it liquid until you get it lets
2	emptied out of the drums and disposed of in the cell? A. No. No. That would have been too	2 3	of polymers and a vehicle which is the solvent that keeps it liquid until you get it lets it dry to become the solid paint, and in the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 emptied out of the drums and disposed of in the cell? A. No. No. That would have been too labor intensive for any good purpose to do. Then you would still be left with a drum that's got goop in it so I'm almost certain we never did that. Q. Do you have any memory of polyol being emptied out of drums into the cells? A. No. Q. Do you have any memory of any material being disposed of in bulk form in order to use up any remaining free space in the cells after the drums were placed in there? A. As I remember, the permit allowed for sludges to be placed around the drums but I don't remember during the time that I was there that we actually did that. Q. Are you aware of that being done before you got there? A. Like I say, I know it was in the permit. I don't know that it was ever done. Q. Let's look at the next category on 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	of polymers and a vehicle which is the solvent that keeps it liquid until you get it lets it dry to become the solid paint, and in the paint sludge most of the vehicle is gone which is why it's paint sludge instead of liquid paint so you have got mostly the resins left, the paint resins, and those can be anything from enamels, latexes, lacquers. Almost all of them are various organic polymers I guess is the general term you would use for that. Q. Moving on to the next category, cleaning and hygiene, do you remember any of these materials being buried in the cells? A. Yes. Q. Which ones? A. All of them. Q. Were any of these materials buried in bulk? A. No. Q. And what kind of chemicals would you typically find in these products? Is that too broad of a question? A. That's very broad because it's a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 emptied out of the drums and disposed of in the cell? A. No. No. That would have been too labor intensive for any good purpose to do. Then you would still be left with a drum that's got goop in it so I'm almost certain we never did that. Q. Do you have any memory of polyol being emptied out of drums into the cells? A. No. Q. Do you have any memory of any material being disposed of in bulk form in order to use up any remaining free space in the cells after the drums were placed in there? A. As I remember, the permit allowed for sludges to be placed around the drums but I don't remember during the time that I was there that we actually did that. Q. Are you aware of that being done before you got there? A. Like I say, I know it was in the permit. I don't know that it was ever done. Q. Let's look at the next category on this list which is paints. Do you remember any 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	of polymers and a vehicle which is the solvent that keeps it liquid until you get it lets it dry to become the solid paint, and in the paint sludge most of the vehicle is gone which is why it's paint sludge instead of liquid paint so you have got mostly the resins left, the paint resins, and those can be anything from enamels, latexes, lacquers. Almost all of them are various organic polymers I guess is the general term you would use for that. Q. Moving on to the next category, cleaning and hygiene, do you remember any of these materials being buried in the cells? A. Yes. Q. Which ones? A. All of them. Q. Were any of these materials buried in bulk? A. No. Q. And what kind of chemicals would you typically find in these products? Is that too broad of a question? A. That's very broad because it's a pretty broad spectrum of materials there but
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 emptied out of the drums and disposed of in the cell? A. No. No. That would have been too labor intensive for any good purpose to do. Then you would still be left with a drum that's got goop in it so I'm almost certain we never did that. Q. Do you have any memory of polyol being emptied out of drums into the cells? A. No. Q. Do you have any memory of any material being disposed of in bulk form in order to use up any remaining free space in the cells after the drums were placed in there? A. As I remember, the permit allowed for sludges to be placed around the drums but I don't remember during the time that I was there that we actually did that. Q. Are you aware of that being done before you got there? A. Like I say, I know it was in the permit. I don't know that it was ever done. Q. Let's look at the next category on 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	of polymers and a vehicle which is the solvent that keeps it liquid until you get it lets it dry to become the solid paint, and in the paint sludge most of the vehicle is gone which is why it's paint sludge instead of liquid paint so you have got mostly the resins left, the paint resins, and those can be anything from enamels, latexes, lacquers. Almost all of them are various organic polymers I guess is the general term you would use for that. Q. Moving on to the next category, cleaning and hygiene, do you remember any of these materials being buried in the cells? A. Yes. Q. Which ones? A. All of them. Q. Were any of these materials buried in bulk? A. No. Q. And what kind of chemicals would you typically find in these products? Is that too broad of a question? A. That's very broad because it's a

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	Page 74		Page 76
1	you would find in your bathroom so there's	1	household cleansers.
2	nothing particularly hazardous about any of	2	Q. Did any of the wastes that are
3	them. You're looking at, for instance, a	3	listed under cleaning and hygiene contain
4	toothpaste which has got some form of an	4	chlorinated organics?
5	abrasive powder, a material, probably water,	5	A. Probably if there's any
6	depends on the toothpaste. You may have some	6	chlorinated organics there it's in the
7	brighteners or some fluoride or other materials	7	packaging because we get a lot of PVC in
8	in there to do it and almost everything has got	8	Consumer packaging so that a metable the most
9	some colorant, some dye. The FBI FDA	9	consumer packaging so that's probably the most
10	numbers, whatever. And something to give it a		of where you would find any chlorinated.
11	nice smell.	10	Q. Would you say that you would find
12		11	a lot of PVC in most plastic packaging or is
	Q. Were any of those materials in	12	it because of the plastics that you would find
13	their consumer packaging or were they all	13	that?
14	unpackaged, just	14	Yes, it is the plastic that makes
15	A. I would say the most of these were	15	up your squeeze bottles or your detergent
16	packaged materials.	16	bottles, a lot of those are plastic and a lot
17	Q. So are you saying that you might	17	of those have either a layer that's PVC or the
18	have a drum full of toothpaste tubes filled	18	whole container is PVC depending on the
19	with toothpaste?	19	material because PVC is a very good packaging
20	A. Yes.	20	material for consumer products.
21	Q. Or a drum filled with shampoo	21	Q. Is there anything that PVC
22	bottles?	22	packaging or plastic packaging could come in
23	A. Yes.	23	contact with in the barrelfill that could cause
24	Q. And what would those packaging	24	
25	materials be made of?	25	it to decompose faster than it ordinarily would?
		25	Would
	Page 75		Page 77
1	Same thing you find in the store,	1	A. I don't believe there was anything
2	plastic bottles. Toothpaste tubes are	2	in that landfill that would decompose PVC. You
3	typically a plastic material. A lot of these	3	would need a strong solvent to break the PVC,
4	were either QC samples which they also list	4	dissolve PVC and those solvents weren't put
5	there where they would take a grab a tube of	5	into the landfills.
6	toothpaste off the production line, take it	6	
7	over and test it to make sure that it had the	7	Q. Were there any solvents put into the barrelfill?
8	right abrasiveness or whatever other tests they	8	
9	were doing, and then because they have squeezed	-	A. There was trace amounts of
10	a little bit out of the tube, the rest of the	9	solvents in the vehicle for paints in the paint
11	tube got thrown in a drum to be disposed.	10	sludge, but not enough to have much effect on
12	Q. How long would you expect those	11	anything.
13	packaging materials to remain intact after	12	Q. If that paint sludge with trace
14	burial?	13	amounts of solvents came into contact with a
15	A. A long, long time based on how	14	toothpaste tube, would it have any effect on
16	A IVILY, IVILY UNE DASED ON NOW	15	the tube's condition over thirty years?
11/	long they last in other landfills so they are	16	A. I won't say it's impossible but I
17	long they last in other landfills so they are probably still in good shape.	16 17	 A. I won't say it's impossible but I think it's probably highly unlikely.
18	long they last in other landfills so they are probably still in good shape. Q. Do you recall what kind of	16 17 18	 A. I won't say it's impossible but I think it's probably highly unlikely. Q. What about in a hundred years?
18 19	long they last in other landfills so they are probably still in good shape. Q. Do you recall what kind of cleansers were buried?	16 17 18 19	 A. I won't say it's impossible but I think it's probably highly unlikely. Q. What about in a hundred years? A. I don't know. I don't know.
18 19 20	long they last in other landfills so they are probably still in good shape. Q. Do you recall what kind of cleansers were buried? A. What kind of cleansers does	16 17 18	 A. I won't say it's impossible but I think it's probably highly unlikely. Q. What about in a hundred years? A. I don't know. I don't know. Q. What about I'm sorry.
18 19 20 21	long they last in other landfills so they are probably still in good shape. Q. Do you recall what kind of cleansers were buried? A. What kind of cleansers does Procter & Gamble make? Typical household	16 17 18 19	 A. I won't say it's impossible but I think it's probably highly unlikely. Q. What about in a hundred years? A. I don't know. I don't know. Q. What about I'm sorry.
18 19 20 21 22	long they last in other landfills so they are probably still in good shape. Q. Do you recall what kind of cleansers were buried? A. What kind of cleansers does Procter & Gamble make? Typical household cleansers, soaps, probably most of those would	16 17 18 19 20	 A. I won't say it's impossible but I think it's probably highly unlikely. Q. What about in a hundred years? A. I don't know. I don't know. Q. What about I'm sorry. A. I think you're getting into the
18 19 20 21 22 23	long they last in other landfills so they are probably still in good shape. Q. Do you recall what kind of cleansers were buried? A. What kind of cleansers does Procter & Gamble make? Typical household cleansers, soaps, probably most of those would be some form of detergent. I can't remember if	16 17 18 19 20 21	 A. I won't say it's impossible but I think it's probably highly unlikely. Q. What about in a hundred years? A. I don't know. I don't know. Q. What about I'm sorry.
18 19 20 21 22 23 24	long they last in other landfills so they are probably still in good shape. Q. Do you recall what kind of cleansers were buried? A. What kind of cleansers does Procter & Gamble make? Typical household cleansers, soaps, probably most of those would be some form of detergent. I can't remember if we had any may have been some scouring	16 17 18 19 20 21 22	 A. I won't say it's impossible but I think it's probably highly unlikely. Q. What about in a hundred years? A. I don't know. I don't know. Q. What about I'm sorry. A. I think you're getting into the point that I don't know that there's anybody that knows that yet.
18 19 20 21 22 23	long they last in other landfills so they are probably still in good shape. Q. Do you recall what kind of cleansers were buried? A. What kind of cleansers does Procter & Gamble make? Typical household cleansers, soaps, probably most of those would be some form of detergent. I can't remember if	16 17 18 19 20 21 22 23	 A. I won't say it's impossible but I think it's probably highly unlikely. Q. What about in a hundred years? A. I don't know. I don't know. Q. What about I'm sorry. A. I think you're getting into the point that I don't know that there's anybody

20 (Pages 74 to 77)

1	Page 78 waste that went into the barrelfill to have any		Page 80
2	effect on plastic material that was in there at		Q. Why do you say that?
3	effect on plastic material that was in there at the same time?	2	A. Because if it was good somebody
4		3	would have stolen it.
5	A. I don't think so, but that's	4	Q. Why, is it valuable?
	purely a personal speculation. I don't think	5	A. It's whiskey.
6	you can really say for sure.	6	Q. Oh.
	Q. And would your answer be the same	7	A. But I don't know why they would
8	if we were talking about material with trace	8	have listed that as a separate category.
9	solvents coming into contact with a plastic	9	Typically we would not have put an alcohol, if
10	drum versus a toothpaste tube?	10	it was pure alcohol into the landfill. Solvent
11	A. The drum is certainly going to	11	sludge is probably really paint sludge, but,
12	last a lot longer because it's a lot thicker	12	again, that's kind of speculation.
13	and the drums typically were made of like a	13	Q. What is the chemical composition
14	high density polyethylene as opposed to PVC, so	14	that could categorize something as a solvent or
15	I would say a drum would last a lot, lot longer	15	is it not based on its chemical composition?
16	than a tube of toothpaste.	16	A. It's based on its ability to
17	Q. The next category on the list is	17	dissolve something and make a solution.
18	waxes and fats, and can you tell me if there's	18	Q. That's what defines a solvent?
19	anything in that list that you remember being	19	A. Yes. And there's the best one in
20	buried in the barrelfill?	20	the world (indicating). Water is the ultimate
21	 Well, certainly we did take 	21	solvent for most things in the world. Organic
22	greases and mixtures of greases with floor	22	solvents typically are used for their ability
23	sweepings and dirt, fatty acids, yeah, probably	23	to dissolve a resin or some other organic
24	we did get those. I don't remember any hexane	24	material so that you can produce something,
25	liquids. I don't know why that would have been	25	make something out of it.
1	Page 79		Page 81
2	put there. And I don't know how you make hexane solid.	1	Q. You testified earlier that
3		2	solvents would usually be recovered and sold
4	Q. What is hexane liquid?	3	rather than buried.
5	A. Hexane is an organic solvent used	4	A. Chlorinated solvents were
6	in a lot of materials for solvent capability	5	typically recovered and sold because they had a
7	and, again, if it was liquid, that would be	6	very good resale value.
8	material we would have incinerated.	7	Q. Was there any reason that you
9	Q. So you don't remember any of it	8	wouldn't want to bury solvents based on their
10	going in the barrelfill or you don't remember	9	reactability or any other character of their
11	it being allowed to go in the barrelfill?	10	composition?
12	A. I don't remember any of it going	11	A. Chlorinated solvents typically
13	into the barrelfill and we would have certainly	12	because they have value we wouldn't have
14	tried very hard to make sure it didn't go into the barrelfill.	13	buried. Flammable nonchlorinated solvents
15		14	typically we sent for incineration based on
16	Q. The next category is solvents and stillbottoms. Do you remember any of these	15	partially the safety considerations that
17	stillbottoms. Do you remember any of these items going in the barrelfill?	16	flammable solvents moving them around and
18	A. I would say probably as part of	17	burying them in the landfill wasn't a good idea
19	the glues and resins we probably got that	18	from a safety standpoint. You don't want to
20	just like rubber solvent is really probably	19	run heavy track equipment over a drum which may
21	like rubber cement type materials, I think	20	catch fire and explode underneath it. So we
22	that's probably what they are talking about.	21	tried to keep everything like that to go for
23	Certainly solvent sludge-type materials. Not	22	incineration. Now, you could have a paint
24	containing some in suuge-type materials. Not	23	sludge with solvent in it, but typically it
	sure that ethyl alcohol would have made it to		
	sure that ethyl alcohol would have made it to	24	would be solid mostly paint sludge with a
25	sure that ethyl alcohol would have made it to the landfill.		would be solid mostly paint sludge with a small amount of solvent, trace amounts in it.

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		r		
	Page 82			Page 84
1	Q. Were any of the materials listed	1	hired by Systech.	
2	here under the category of solvents and	2	Q. Getting back to this solvent	
3	stillbottoms flammable or can you not tell from	3	recovery process, what kind of container would	
4	looking at this?	4	the stillbottoms be in at the end of that	
5	A. You can't tell from looking at	5	process?	
6	this. In their pure state, they probably would	6	A. They could either be drummed or it	
7	be. Certainly ethyl alcohol, xylene are	7	could have been done in bulk. Typically the	
8	flammable as a pure substance, but when you say	8	at that time most of the people who were	
9	sludge, generally means there's a little bit of	9		
10	xylene and a whole lot of something else and I	10	recovering solvents would have drawn the stillbottoms out.	
11	don't know what else is there to be able to say			
12	that and how much xylene is really there.	11	Q. Why do you say that?	
13		12	A. Because it's a small part of the	
	Q. What are stillbottoms?	13	total and when they cleaned out the still it's	
14	A. If you recover solvents you use a	14	easier to dump it into it it's typically a	
15	still. Most of the solvent is boiled off,	15	sticky, gooey, chewing gum material and it's a	
16	becomes a vapor and is then recovered over	16	lot easier to rake that out into a drum than do	
17	here. The stuff that's left in the bottom of	17	anything else with it.	
18	the still is stillbottoms and it's typically	18	Q. Do you remember any of that	
19	the pigment, the resins and anything that	19	material, stillbottoms, coming into the site in	
20	wasn't volatile that was in the waste that you	20	anything other than drums?	
21	started with.	21	A. I don't even remember any of it	
22	Q. When you say anything that was	22	coming in when I was there.	
23	nonvolatile, do you mean that anything volatile	23	Q. Go down the miscellaneous category	
24	would have been vaporized?	24	on this exhibit, would you please last at that	
25	A. Yes. The whole idea of distilling	25	on this exhibit, would you please look at that	
		25	list and tell me what you remember, if	
ŀ	Data 02			
1	Page 83 something, to run it through the still is that	4		Page 85
2	you drive off those volatile fractions so that	1 2	anything, being buried in the barrelfill. A. Certainly abrasive slurry would	
			A. Leftainiv abrasive slurpy would	
3				
3	you recover it over here as a usable solvent	3	have been drummed and put in there. Some of	
4	again and the material that's left is the	3 4	have been drummed and put in there. Some of these are I have no idea what Cold Snap is.	
4	again and the material that's left is the material that you don't want.	3 4 5	have been drummed and put in there. Some of these are I have no idea what Cold Snap is. Diatomaceous earth. I'm surprised that there	
4 5 6	again and the material that's left is the material that you don't want. Q. Do you remember the identity of	3 4 5 6	have been drummed and put in there. Some of these are I have no idea what Cold Snap is. Diatomaceous earth. I'm surprised that there are four drums of flammable waste. That	
4 5 6 7	again and the material that's left is the material that you don't want. Q. Do you remember the identity of any of the generators of stillbottoms?	3 4 5 6 7	have been drummed and put in there. Some of these are I have no idea what Cold Snap is. Diatomaceous earth. I'm surprised that there are four drums of flammable waste. That probably shouldn't have happened if it did. I	
4 5 6 7 8	again and the material that's left is the material that you don't want. Q. Do you remember the identity of any of the generators of stillbottoms? A. During the time that I was there I	3 4 5 6 7 8	have been drummed and put in there. Some of these are I have no idea what Cold Snap is. Diatomaceous earth. I'm surprised that there are four drums of flammable waste. That probably shouldn't have happened if it did. I don't know what Sta-Sol is for sure and I don't	
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22 (Pages 82 to 85)

		Page 86		Page 8
1	Q. Were there any materials in this		1	Q. Was that called Liquified Coal
2	miscellaneous list that would contain		2	Development?
3	chlorinated organics?		3	A. It could be. I just remember it
4	A. Other than the couple of them that		4	was Moundsville, West Virginia, and the solid
5	I don't know what they are, I would say the		5	residue from the coal after they extracted the
6	rest of them would not contain chlorinated		6	organics was used to fill in that pond.
7	contrast.			
8	Q. Moving on to inks, do you remember		8	Q. Do you remember the pond being
9	ink waste or ink sludge being placed in the			used to evaporate water from water and asbestos
10	barrelfill?		9	mixture?
11			10	A. No. The only other use that I
	A. Certainly ink sludge was and I'm		11	know of it was to aerate water to help reduce
12	guessing ink waste is probably ink sludge also,		12	the COD, get some oxygen into the water so that
13	just somebody used a different name.		13	the cost of treatment would be lower. That was
14	Q. Do you recall any ink waste or ink		14	done simply by pulling water from the pond,
15	sludge in bulk form being disposed of in the		15	bringing it up through a flat spray nozzle and
16	barrelfill?		16	spraying it back over so it would fall through
17	A. No.		17	the air and pick up the oxygen out of the air.
18	Q. Does that type of waste contain		18	Q. Then moving on to oil on this
19	any chlorinated compound?		19	exhibit, do you remember any of these materials
20	A. I would not expect there to be any		20	being disposed off in the barrelfill?
21	chlorinated in there.		21	A. Oil sludges, yes. Typically oil
22	Q. Moving on to asbestos, do you		22	or oil/water mixtures would have gone to the
23	remember any asbestos or material containing		23	oil treatment plant to recover the oil. It's
24	asbestos being buried in the barrelfill?		24	possible separater dudge could have send them
25	A. I don't remember any asbestos but		25	possible separator sludge could have gone there too.
-				
		Page 87		Page 8'
1	certainly they did have customers who had		1	Q. What is separator sludge?
2	asbestos waste, Delco being one of them, but		2	A. A separator is a device to remove
3	typically asbestos waste from Delco, as I said,		3	oil from water. Typically if you have got a
4	would be put into big plastic bags and went to		4	big manufacturing operation and a lot of trucks
5	the sanitary landfill. Asbestos and water		5	moving around you will get drips of oil on the
6	could be something that would have been there		6	ground and when it rains, then that washes off
7	Q. Did any dry asbestos come into the	•		ground and when it rains, then that washes off
8	site or was it just asbestos and water?			the parking lot and so they put a trap to
			7 8	the parking lot and so they put a trap to
9	A. I don't remember any asbestos		8	collect that water and run it through a
10	A. I don't remember any asbestos		8 9	collect that water and run it through a separator to skim that oil off the top so it
	A. I don't remember any asbestos during the time I was there, but I do know that		8 9 10	collect that water and run it through a separator to skim that oil off the top so it doesn't get discharged into a stream someplace.
10	A. I don't remember any asbestos during the time I was there, but I do know that Delco did make a part of their drum		8 9 10 11	collect that water and run it through a separator to skim that oil off the top so it doesn't get discharged into a stream someplace. Q. Would that oil sludge or separator
10 11 12	A. I don't remember any asbestos during the time I was there, but I do know that Delco did make a part of their drum grinding, they ended up with an asbestos water		8 9 10 11 12	collect that water and run it through a separator to skim that oil off the top so it doesn't get discharged into a stream someplace. Q. Would that oil sludge or separator sludge be generated at the oil recovery
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23 (Pages 86 to 89)

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24 (Pages 90 to 93)

1Q. In bulk?2A. In bulk.3Q. Can you tell me more about that4process of vacuuming it out of something and5then putting it into the barrelfill?6A. We had several treatment plants7where you did gravity separation of the oil and8water and solids, and those were steam heated9and basically heated the oil/water mixture up,10held it at temperature for two to three days.11The oil would float to the surface and was12skimmed off. The water would be the next layer13and then on the bottom all of the dirt and14treff the ment the ment the staff the surface between and the non the bottom all of the dirt and	ge 92
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13 and then on the bottom all of the dirt and 13 would be vacuumed out?	
14 shuff the level of the	
1 14 STUTT THAT WAS IN THE OIL WOULD drop to the 114 A Voob I think that a second	
15 bottom. And that sludgy layer on the bottom 15 estimate.	
16 was then at the end of that period you 16 Q. How many gallons would it yield	
17 skimmed the oil off, you pumped the water to 18 the water treatment and then this sludge that it was vacuumed, roughly?	
18 the water treatment and then this sludge that's 18 A. Two hundred, three hundred	
19 left on the bottom was vacuumed up by a vacuum 19 gallons. 20 truck and moved over and put into the landfill 20 0 Do you recall what size vacuum	
20 Qi bo you recail what size vacuulli	
22 Ai Whichevel tildek was available.	
2 A No. No, you're taiking very sinall	
25 A. No. I can tell you that typically 25 amounts, two or three hundred gallons, and I	
Page 91 P	
1 it would have been ten percent of the total 1 think the smallest vacuum truck was probably	ge 93
2 volume incoming material for the oil treatment 2 four thousand gallons and the bigger ones were	
3 plant. 3 six thousand gallons.	
4 Q. So ten percent of the material 4 Q. Can you describe the consistency	
5 that went into the oil treatment plant would 5 of that sludge? Obviously it was able to be	
6 end up as a sludge by-product? 6 vacuumed so it couldn't be too solid but how	
/ A. Yeah, typically I would say that's 7 wet or liquid was it?	
8 about it. 8 A. It was it looked like heavy	
9 Q. And then would that entire amount 9 gray mud.	
10 of by-products at the end of the process be put 10 O. And what did it consist of?	
11 A. Mostly it was dirt, floor	
12 A. Yes. 12 sweepings from factories. Some of it would	
13 Q. So when it was vacuumed into a 13 have been finely divided carbon from motor	
14 tanker truck, you said? 14 operations, bits of metal from bearings and	
15 A. Yes. 15 machinery that the oil was in. A small amount	
16 Q. Then would the tanker truck just 17 directly immediately drive any to the line of oil would remain in it and some water.	
17 directly immediately drive over to the cell and 17 Q. Do any of those components contain	
18 then pump it into the cell? 18 chlorinated compound? 19 A. Well, yeah, typically I would say 19 A. No. We had to be year excertion	
1 20 II II A. NO. We had to be very careful	
20 about that because chiomated compound would	
I an intervention to the most to them intervention of the most of	
22 Sell chiolitated on to somebody.	
20 Q. Was there any record made of the	
24 pouring into the cell at that time.24 amount of this material that was disposed in25Q. How often did the oil recovery25 bulk form in the cells?	

1 A. If should have been recorded. 1 Permitted to put in the barnefill? 2 Q. Would it have been recorded on the 2 A. I doubt it, but I can't remember 3 are you say should have been, 3 and the part it might not 5 Q. When you say should have been, 3 at that time - I'm not sure if PCB's had been 6 are you say should have been, at that time - I'm not sure if PCB's had been 7 have been all the time? at that time - I'm not sure if PCB's had been 8 are you say should have been, at that time - I'm not sure if PCB's had been 9 have been all the time? at that time - I'm not sure if PCB's had been 9 at part the part time - I'm not sure if PCB's had been 9 at that time - I'm not sure if PCB's had been 10 don't member whether I's aw it on cell logs or not and I 11 odd't member whether I's aw it on cell logs or not and I 12 Q. Would it have the thousands of 13 galons. The tank - the treatment tanks would 14 the you would get it the the thousands of 15 A. We got some oil sludges and 20 Q. Uol oil sludge only come from the <th></th> <th>Anna an Anna Anna Anna Anna Anna Anna A</th> <th>****</th> <th></th> <th></th> <th></th>		Anna an Anna Anna Anna Anna Anna Anna A	****			
2Q. Would it have been recorded on the same log used to record the drum disposal?2A. T doubt it, but I can't meember4A. Yes.3when you say should have been, are you saying that you believe it might not have been all the time?3when you say should have been, they decided PCB's were bad.5A. Mell, Tm just thinking if I can of our thermember whether I saw it on cell logs or not and I dont remember whether I saw it on cell logs or not.1G. Why are PCB's banned from sering it on cell logs or not.10O. Would it ever be in the thousands1G. Why are pCB's banned from11ordt remember whether I saw it on cell logs or not.1G. Why are pCB's banned from12Q. Would lieve be in the thousands of galions on a cell report or do you think it would only be in the hundreds of galions?1A. They are pretty much banned from singent it getting into thousands of galions of that.13ordgal constor acell report or do you think it galions of that.11114would about four thousand galions so - and galions of that.11115into transformers, they used it in the wax on the way apper on your cereal cartons and the way apper on your cereal cartons a	1		age 94			Page 96
3 same log used to record the drum disposal? when the PCB rules can be into effect. I think 4 A Yes. when the PCB rules can be into effect. I think 5 Q. And when you say should have been, a that time - I'm not sure if PCB's had been 6 are you saying that you believe it might not bare been all the time? 7 have been all the time? bare been cell logs or not and I 9 remember seeing it no cell logs or not and I can't member whether I saw it on cell logs or not. I 10 don't remember whether I saw it on cell logs or not. A. They are pretty much banned from 11 everything today. They decided PCB's ware bead. 12 Q. Would it ever be in the thousands of galons. The tank - the treatment tanks would 13 on-ster failty or dif you receive any oil the stars as mall percentage of that, so I don't 14 thay are pretty much banned from into transformers, they used that may be this is a 14 they are part and at one time was non the they decided PCB's ware part on you your cereal cartons and 15 into transformers, they used that - they ware part on you your cereal cartons and 15 part and thenos methody decided that ware the						
4 A. Yes. 4 at that time - Tim not sure if PDE's had been 6 are you saying that you believe it might not 5 barned from landfills at that time or not. I 6 are you saying that you believe it might not 5 barned from landfills at that time or not. I 7 are you saying that you believe it might not 6 are you saying that you believe it might not 8 A. Well, Tim just thinking if I can 6 are remember where in the history of things 9 remember where in the history of things 6 A. Well, Tim just thinking if I can 9 remember where in the history of things 6 A. Trey are prety much banned from 10 A. I would brink in the hundreds. I 1 1 1 1 11 not. A. I would brink in the hundreds. I 1 1 1 1 11 and the storemely inert and therefore I store it and gallons or and I 1<		Q. Would it have been recorded on the			A. I doubt it, but I can't remember	
9 And when you say should have been, are you saying that you believe it might not have been all the time? 5 and the time or not. I 6 are you saying that you believe it might not have been all the time? 6 8 A. Well, I'm just thinking if I can remember seeing it no cell logs or not and I 6 10 don't remember whether I saw it on cell logs or not. 7 12 Q. Would it ever be in the thousands of gallons on a cell report or do you think it would only be in the hundreds. I 8 Q. Why are PCB's banned from 13 or gallons, The tank - the treatment tanks would only hold bout four thousand gallons? 10 A. They are pretty much banned from 14 they caeels stuff in the word, they put it 13 14 14 they caeels stuff in the word, they put it 15 A. I would bout four thousand galons? 14 14 they are pretty much banned from 14 they are pretty much banned from 16 16 16 16 16 16 and solve thousand galons? 15 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 1					when the PCB rules came into effect. I think	
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7 have been all the time? Page 57 8 A. Well, I'm just thinking if I can 9 9 remember seeing it on cell logs or not and I 0. Why are PCB's banned from 10 don't remember whether I saw it on cell logs or not and I 9 11 don't remember whether I saw it on cell logs or not and I 9 12 Q. Would it ever be in the thousands 10 14 the greatest suff in the wordd, they put it 11 14 the greatest suff in the wordd, they put it 11 15 A. I would think in the hundreds. I 15 16 can't imagine it getting into thousand sof 11 17 gallons. The tank - the treatment tanks would 16 the wax paper on your cereal cartons and 19 away and it bloaccumulated in various places and then somebody decided that maybe this is a 19 galans of that. 20 on-site facility or did you receive any oil 21 galans of that. 20 and the somebody decided that maybe this is a 22 9 preases from other places because some of the 21 23 and so we would get sludges and 11 12		Q. And when you say should have been,				
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13 of gallons on a cell report or do you think it 14 would only be in the hundreds of gallons? 15 A. I would think in the hundreds. I 16 can't imagine it getting into thousands of gallons. The tark the treatment tanks would 17 gallons. The tark the treatment tanks would 18 only hold about four thousands of gallons. The tark the treatment tanks would 19 it was a small percentage of that, so I don't 20 on-site facility or did you receive any oil 21 gallons of that. 22 Q. Did oil sludge only come from the auto plants had their own oil recovery systems and so we would get sludges and 21 greases from other places because some of those. 23 Q. Were those in drums? 6 A. Yeah, that was typically in drums. 7 Q. Was there any in bulk? 8 A. There may have been, but I'm not servery times di sudges that it may have been bulk at times. 12 times. 13 Q. Could there have been PCB's in the oil sludge that was disposed in bulk in the set cells? 14 they came in, but I'm not certain. 15 Q. Could there have been PCB's in the original samples were tested and I think 16		Q. Would it ever be in the thousands		12	decided that while this material was extremely	
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A. Polychlorinated biphenyls. 24 too hot, it caught on it spontaneously	23	Q. What are PCB's?				
	24				too hot, it caught on it spontaneously	
	25				combusted and we had to smother the fire bus	
					compared and we had to smother the life by	

Mike Mobley Reporting 937-222-2259 25 (Pages 94 to 97)

1 2 3 4 5 6 7 8 9	putting dirt on it, but I believe after that was done and it was put out that that material was dug out and put into the sanitary landfill. I think that's it. Q. You mean it was put into the barrelfill and removed from the barrelfill? A. No, not go back. What I said, we had the trench, if it got too hot it would spontaneously combust and then you have got	Page 98	1 2 3 4 5 6 7 8 9	Page down here isn't developed up into the area that a lot of this down in this corner (indicating) which is trying to remember my directions. Okay. Bottom left corner shows this to be a lot of green trees and stuff and from what I remember from '79, '80, that had already been developed into sanitary landfill, so and there's some things missing from up here (indicating), just little things that would	e 100
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	burning rubber, and so the way they put it out was to just take a bulldozer and push a pile of dirt on top of it. When it was smothered, couldn't get oxygen and it cooled off and I believe the next day they went back and dug that out so it was temporarily smothered by putting dirt on it, not buried permanent. Q. Can you describe where at the site that plastic lined trench was located? A. Typically I think that was about a couple hundred feet away from the drum yard into the area of the drumfill and I'm trying to remember if that was on top of old closed cells or on property that hadn't been developed yet. Q. I have a map. A. Oh, good.		10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	 indicate to me that this is prior to that time by some period. Q. Does it appear from the picture that this was during this photo was taken during the time that the barrelfill was in operation? A. Yes. Q. Do you see the area on this photograph where the barrelfill cells were located? A. Yes, but interestingly enough, I don't see an open cell. Q. Would you take this blue pen and circle the area that you generally recall the barrelfill cells to be located at? 	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	 Q. Or actually a photograph. MS. WOLFE: Why don't we mark this. (Thereupon, Plaintiff's Exhibit 4 was marked for purposes of identification.) Q. Showing you what has just been marked as Wallis Exhibit 4, do you recognize what this photocopied photograph is depicting? A. Yes. Q. What is it? A. This is the operations of IWD Liquid Disposal. Q. I'm just giving you the original exhibit because I'm going to ask you to mark on it. Does this appear the way you remember the site to have been laid out? A. Yes. Yes. Though I'm curious to the date. This looks like it must be a fairly old picture. Q. I believe it's from 1979 and it Was found in or the original was found in a trailer on the site. A. Oh, okay. I would say this picture is older than '79. Q. Why would you say that? A. Because the solid waste landfill 	Page 99	25 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	A. Well, let's see. In general, the Page permitted area is something like (indicating). That's kind of the permitted area for the drumfill. And then they had filled well, this is '79, trying to think. Most of the cells in this area (indicating) up here I think all the way back across here (indicating) had been filled and they were working in this general area (indicating) at the time. Q. Well, for purposes of the court reporter A. Sorry. Q and so that we can understand what you're describing, would you draw circles with that pen and put an initial or a word in the middle of each one that indicates the areas that you're talking about? A. Cells would have been typically something like this (indicating). Q. You're drawing sort of A. They are rectangles. Q. Rectangles. Okay. A. And there were a number of them down and I don't remember the cell count that was down, but typically you dug these out and then backfilled in here with drums and then	2 101

26 (Pages 98 to 101)

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	Page 102	ĺ		Page 104
1	capped it off.	1	Q. And then what other structures do	-
2	Q. So the areas where you have drawn	2	you recognize on that picture?	
3	rectangles where it says cells are general	3	A. This is the wastewater plant	
4	depictions of what the cells would have been?	4		
5			(indicating).	
	A. General depictions of where the	5	Q. You have just circled something	
6	cells were.	6	and you wrote WW under it?	
7	Q. Initially we were talking about	7	A. Yes, wastewater plant there	
8	the trench that was used to react polyol and	8	(indicating). This is the transportation	
9	TDI. Can you mark here's a red pen. Can	9	(indicating).	
10	you mark where you think that trench was	10		
11	located in red?		Q. And you have circled another	
12		11	building, looks like it's to the right of the	
	A. It would have been somewhere in	12	wastewater plant?	
13	this area (indicating).	13	A. Yeah. Pond.	
14	Q. Looks like that's somewhat beneath	14	Q. Just above the	
15	where you drew the cells or lower down on the	15	A. There's a transportation building	
16	picture.	16	(indicating).	
17	A. It's certainly within the	17	Q. Just above the transportation	1
18	permitted area for the cells. I can't remember	18	building was a pond you circled?	1
19	if the cells were filled from this direction			
20		19	A. Yes. And then this up here	
	that way or from this direction that way	20	(indicating), now, this has to be earlier.	
21	(indicating), so it was either on permitted	21	There's no fence around that I don't think.	
22	ground that hadn't been used yet or it was over	22	Q. You're looking at an area just	
23	top of an already capped cell. I can't tell	23	above the pond?	
24	you which.	24	A. Yeah, an area just above the pond	
25	Q. Can you tell which direction is	25	is where the drum yard was.	
		25	is where the druin yard was.	
	Page 103			Page 105
1	north on this picture based on your memory of	1	Q. Can you tell from the pictures if	Page 105
2	north on this picture based on your memory of the direction that things were laid out?	1 2	Q. Can you tell from the pictures if there's any drums in the yard?	Page 105
	north on this picture based on your memory of the direction that things were laid out? A. In general, north I think was kind	2	there's any drums in the yard?	Page 105
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2 3 4 5 6	north on this picture based on your memory of the direction that things were laid out? A. In general, north I think was kind of that way (indicating). Q. Can you draw an arrow to what you think is north?	2 3 4 5 6	there's any drums in the yard? A. Yes, those stacks along there are drums (indicating). This has got to be an earlier picture because I or I'm not able to see it. Doesn't appear to be a fence around	Page 105
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27 (Pages 102 to 105)

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		Page 106		Page 108
1	A. I don't know what year. I'm		1	A. Most of the transportation was
2	just kind of chronologically, I thought they		2	done on first shift, though some trucks on
3	had started with the drum fill and then added		3	longer runs wouldn't get back until fairly late
4	the other items in afterward. This would kind		4	at night. The oil process was an ongoing
5	of indicate that you had a lot of those other		5	
6	things there first.		-	operation. Wastewater plant, there was
7	-		6	sometimes one, sometimes two shift operations.
8	Q. Where you circled the oil		7	Drum yard was mostly in the days but could run
	treatment facility, are those six upright		8	second shift or more. The drum fill itself, a
9	looking cylinders the tanks that you were		9	lot of that was two shifts and some of it
10	describing earlier?		10	really depended on the weather because if you
11	A. No. Those are storage tanks for		11	were getting a lot of rain you didn't bury many
12	the incoming and outgoing product oil. The		12	drums but you pumped a lot of water.
13	kind of you can't tell it, but kind of a		13	Q. What shift did you work?
14	real dark looking area there (indicating),		14	A. Days.
15	those are the six treatment tanks.		15	
16	Q. Do you know when that facility			Q. Only days?
17	began operating?		16	A. Yes, only days.
18	- · •		17	Q. Did anyone in the lab work nights?
1	A. No.		18	A. Yes.
19	Q. Do you know when it ceased		19	Q. Who?
20	operating?		20	A. I don't remember their names.
21	A. It ceased operating in March of		21	Q. Was there disposal of drums at
22	2008 (sic) but they laid everybody off.		22	night or just during the day?
23	Q. Was it operational when you		23	A. Night as far as second shift,
24	started working at the site?		24	yeah, sometimes they would work fairly late to
25	A. Yes.		25	finish things up.
		Page 107		Page 109
1	Q. Do you know who was running the			1 496 105
1 -	Q. DO YOU KNOW WHO WAS FURNING THE		1	Was the drum disposal a constant
2	operation when you started?		1	Q. Was the drum disposal a constant
2	operation when you started?		2	process or were there times when there were no
2 3	operation when you started? A. You mean the workers who were		2 3	process or were there times when there were no drums waiting to be disposed?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 operation when you started? A. You mean the workers who were actually there? Q. Yes. A. Well, John was doing most of the oil processing. Q. John Budding? A. Yeah. And Gary was running the wastewater plant and working in the lab. Jeannie, I can't think of her last name, was running the transportation company and Jack Wright was over all of it. Q. Do you know if the oil treatment plant was running before the first cell was dug? A. No, I don't know. Q. Are you aware of any waste disposal that took place afterhours or at night? A. We ran at least two shifts all the time, sometimes three shifts. Q. So were all of the activities that took place during the day also taking place at 		2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	process or were there times when there were no drums waiting to be disposed? A. No, there were almost always drums waiting to be put into the landfill. Q. Do you recall any waste material being referred to as ABS? A. ABS? No. What well Q. Did you as part of your job have any dealings with government inspectors that came to the site? A. Well, yeah. We had the Ohio EPA or regional landfill inspector Joe Moore, I believe his name was, who came by once every week, or once every two weeks he would come by to stop in and see how things were going. And most well, all of the drum logs and reports went to the county board of health. Q. Do you know of any wastes ever being reported on the cell logs as pallets of waste? A. If something was palletized, it would have to still be in some other kind of

28 (Pages 106 to 109)

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	Page 110		Page 112
1	so most of the drums weren't palletized coming	1	container that you would find on a pallet other
2	in. Some of the drums were on pallets,	2	than a drum?
3	depending on the company that was shipping	3	A. You could put a cardboard box on a
4	them, but they would still have to have some	4	pallet but you typically wouldn't put sludge
5	other kind of material the drum was in.	5	into a cardboard box.
6	Q. If it was on a drum with a pallet,	6	Q. What would you put into a
7	would the pallet always be placed in the cell	7	
8	with the drum?		cardboard box for disposal?
9		8	A. Something that was dry.
10	A. No, most of the time the pallets	9	Q. Do you recall materials in
	weren't put in the fill.	10	cardboard boxes being placed in the cells?
11	Q. Were they sometimes put in the	11	 No, because cardboard boxes would
12	cell then?	12	have been a real pain for them. They are a
13	A. I don't remember any pallets going	13	different size from the drums so the level in
14	into the fill.	14	it wouldn't be good and the boxes wouldn't hold
15	Q. Turning back to Plaintiff's	15	weight very well so I don't remember them ever
16	Exhibit 1, I know you testified that this was	16	putting cardboard boxes in.
17	just before you started working at the site?	17	Q. So you think just based on the
18	A. Yes.	18	choculation that the recording of facts the
19	Q. But if you see on the first page		speculation that the recording of forty-two
20	which is a cell report for cell G-6, the first	19	pallets is probably just equivalent to four
21	item listed is DDC Industrian mallete	20	drums per pallet and somebody just being sloppy
22	item listed is PPG Industries, pallets,	21	about the way they wrote it down?
	parentheses, looks like it says paint sludge or	22	A. I think so.
23	PT, period, sludge, and then it says forty-two	23	Q. You don't think that indicates any
24	pallets. What do you think that indicates?	24	bulk waste?
25	A. Sloppy recordkeeping.	25	A. Certainly you can't a pallet is
		<u> </u>	
	Page 111		Page 113
	Q. Was sloppy recordkeeping typical	1	not a bulk waste.
2	at that site?	2	Q. Do you recall any material in
3	A. No. This particular cell report	3	buckets being placed in the barrelfill cells?
4	does not look typical of what you would expect	4	A. You mean like one gallon cans or
5	to have seen there. Certainly it would have	5	something?
6	had to have whatever that material was, if	6	Q. Any kind of bucket. How about a
7	it was any kind of sludge, it had to have been	7	five gallon bucket?
8	in some sort of a container to be on a pallet	8	A. I don't remember it, but certainly
9	so whether they had three or four drums sitting	9	you could palletize five gallon buckets and put
10	on a pallet and rather than record hey, I put	10	them in that way.
11	four drums in of this material, they just wrote	11	
12	down how many pallets they put in.	12	Q. Do you remember any generators
13	Q. How many drums would fit on one		that would send waste in buckets?
14	pallet?	13	A. I don't remember getting waste in
15	A. You can put four drums on a	14	five gallon buckets during my time, but it's
16	pallet.	15	possible.
17	•	16	Q. If something were recorded on a
	Q. So does forty-two pallets indicate	17	cell report as a box, do you have any idea what
18	to you that it would have been forty-two times	18	that would mean?
19	four, the number of drums?	19	A. As a box?
20	 That's what I would have expected, 	20	Q. Yes.
21	yes.	21	A. I'm guessing that's cardboard box,
			but pasin. T doubt
22	Q. So a hundred and sixty-eight	22	
23	Q. So a hundred and sixty-eight drums?	22 23	but again, I don't
23 24		23	Q. If it were stillbottoms in a box,
23	drums? A. Yeah.	23 24	Q. If it were stillbottoms in a box, what do you think that would indicate? Do you
23 24	drums? A. Yeah.	23	Q. If it were stillbottoms in a box,

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1	Page 114		Page 116
	A. If it's stillbottoms in a box I'll		remember that that material ever came to that
2	change my answer and say it's probably a	2	site. I think there were there were a
3	roll-off box which is a bulk delivery then.	3	couple of solvent reclaimers, one over in the
5	Q. So does that mean that that waste	4	Newark area what was the name of that place?
	would have gone straight from that roll-off box	5	But I don't remember that they ever shipped us
6	into the cell in bulk form?	6	anything and I'm not sure that we ever shipped
7	A. Possibly.	7	them any solvents for reclamation. Most of the
8	Q. You don't have any specific	8	solvents that we had, the chlorinateds were
9	recollection of seeing that happen, but you're	9	sent to Inland reclamation in Kentucky, not the
10	saying it's possible that could have happened?	10	full name I can't remember what the full
11	 A. It's certainly possible it could 	11	name is, but it was in Kentucky. The flammable
12	have happened.	12	solvents were shipped to IWD near Paducah,
13	Q. Do you know how big the roll-off	13	Kentucky or to an incinerator that was up in
14	boxes are that you are thinking about?	14	Michigan.
15	A. The box can be anywhere from three	15	Q. Utica, Michigan?
16	cubic yards to forty cubic yards and I think	16	A. Michigan Disposal.
17	the we did not have any roll-off trucks,	17	Q. That's okay. It not that
18	boxes or anything in our organization, but	18	relevant.
19	certainly Blaylock Trucking which was the	19	A. Yeah, but so we really didn't
20	trucking company for the sanitary landfill had	20	deal with the people who were shipping out
21	a number of vehicles and boxes out there	21	stillbottoms.
22	because that's typically the way the sanitary	22	Q. One last question about the types
23	waste is handled.	23	of waste that you remember. Do you remember
24	Q. Did Blaylock Trucking haul waste	24	anything called ash water or that would have
25	to the site?	25	been recorded as ash water being disposed of at
1	Page 115 A. Not that I know of. We did all of	1	Page 117 the site?
2	our own transportation.	2	A. Got anything else you can give me
3	Q. And you mean IWD Liquid?	3	about it?
4	A. Liquid, yeah.	4	Q. Well, we have cell reports that
5	Q. Did any of the generators have	5	show it being disposed of in bulk at the site
6	their own trucks that hauled waste to the site?	6	
7			and I can tell you how many gallons
	A. I think there may have been a		and I can tell you how many gallons.
8	A. I think there may have been a couple of generators that provided their own	7	and I can tell you how many gallons. Twenty-five thousand gallons in one cell.
8 9	A. I think there may have been a couple of generators that provided their own transportation.	7 8	and I can tell you how many gallons. Twenty-five thousand gallons in one cell. A. What kind of industry?
9 10	couple of generators that provided their own transportation.	7 8 9	and I can tell you how many gallons. Twenty-five thousand gallons in one cell. A. What kind of industry? Q. We don't know. Would that ring
9	couple of generators that provided their own transportation. Q. Do you remember which ones? A. No.	7 8 9 10	and I can tell you how many gallons. Twenty-five thousand gallons in one cell. A. What kind of industry? Q. We don't know. Would that ring any bells with you?
9 10 11 12	couple of generators that provided their own transportation. Q. Do you remember which ones? A. No. Q. Do you remember any generators	7 8 9 10 11	 and I can tell you how many gallons. Twenty-five thousand gallons in one cell. A. What kind of industry? Q. We don't know. Would that ring any bells with you? A. No. Does it have a waste number,
9 10 11 12 13	couple of generators that provided their own transportation. Q. Do you remember which ones? A. No. Q. Do you remember any generators that generated stillbottoms during the time	7 8 9 10 11 12	 and I can tell you how many gallons. Twenty-five thousand gallons in one cell. A. What kind of industry? Q. We don't know. Would that ring any bells with you? A. No. Does it have a waste number, code number on it?
9 10 11 12 13 14	couple of generators that provided their own transportation. Q. Do you remember which ones? A. No.	7 8 9 10 11 12 13	 and I can tell you how many gallons. Twenty-five thousand gallons in one cell. A. What kind of industry? Q. We don't know. Would that ring any bells with you? A. No. Does it have a waste number, code number on it? Q. No.
9 10 11 12 13 14 15	couple of generators that provided their own transportation. Q. Do you remember which ones? A. No. Q. Do you remember any generators that generated stillbottoms during the time that you were there? A. No. I don't remember getting	7 8 9 10 11 12 13 14	 and I can tell you how many gallons. Twenty-five thousand gallons in one cell. A. What kind of industry? Q. We don't know. Would that ring any bells with you? A. No. Does it have a waste number, code number on it? Q. No. A. What time frame are you talking
9 10 11 12 13 14 15 16	couple of generators that provided their own transportation. Q. Do you remember which ones? A. No. Q. Do you remember any generators that generated stillbottoms during the time that you were there? A. No. I don't remember getting stillbottoms when I was there.	7 8 9 10 11 12 13 14 15	and I can tell you how many gallons. Twenty-five thousand gallons in one cell. A. What kind of industry? Q. We don't know. Would that ring any bells with you? A. No. Does it have a waste number, code number on it? Q. No. A. What time frame are you talking about?
9 10 11 12 13 14 15 16 17	 couple of generators that provided their own transportation. Q. Do you remember which ones? A. No. Q. Do you remember any generators that generated stillbottoms during the time that you were there? A. No. I don't remember getting stillbottoms when I was there. Q. Are you aware of any companies 	7 8 9 10 11 12 13 14 15 16	 and I can tell you how many gallons. Twenty-five thousand gallons in one cell. A. What kind of industry? Q. We don't know. Would that ring any bells with you? A. No. Does it have a waste number, code number on it? Q. No. A. What time frame are you talking about? Q. 1977. It was before you were
9 10 11 12 13 14 15 16 17 18	couple of generators that provided their own transportation. Q. Do you remember which ones? A. No. Q. Do you remember any generators that generated stillbottoms during the time that you were there? A. No. I don't remember getting stillbottoms when I was there. Q. Are you aware of any companies that generated any waste at the site that would	7 8 9 10 11 12 13 14 15 16 17	 and I can tell you how many gallons. Twenty-five thousand gallons in one cell. A. What kind of industry? Q. We don't know. Would that ring any bells with you? A. No. Does it have a waste number, code number on it? Q. No. A. What time frame are you talking about? Q. 1977. It was before you were there.
9 10 11 12 13 14 15 16 17 18 19	 couple of generators that provided their own transportation. Q. Do you remember which ones? A. No. Q. Do you remember any generators that generated stillbottoms during the time that you were there? A. No. I don't remember getting stillbottoms when I was there. Q. Are you aware of any companies that generated any waste at the site that would have generated stillbottoms, even if they 	7 8 9 10 11 12 13 14 15 16	 and I can tell you how many gallons. Twenty-five thousand gallons in one cell. A. What kind of industry? Q. We don't know. Would that ring any bells with you? A. No. Does it have a waste number, code number on it? Q. No. A. What time frame are you talking about? Q. 1977. It was before you were there. A. 1977. Okay, so it's not the ash
9 10 11 12 13 14 15 16 17 18 19 20	 couple of generators that provided their own transportation. Q. Do you remember which ones? A. No. Q. Do you remember any generators that generated stillbottoms during the time that you were there? A. No. I don't remember getting stillbottoms when I was there. Q. Are you aware of any companies that generated any waste at the site that would have generated stillbottoms, even if they weren't brought to the site but that had an 	7 8 9 10 11 12 13 14 15 16 17 18 19	 and I can tell you how many gallons. Twenty-five thousand gallons in one cell. A. What kind of industry? Q. We don't know. Would that ring any bells with you? A. No. Does it have a waste number, code number on it? Q. No. A. What time frame are you talking about? Q. 1977. It was before you were there. A. 1977. Okay, so it's not the ash from the coal reclamation.
9 10 11 12 13 14 15 16 17 18 19 20 21	 couple of generators that provided their own transportation. Q. Do you remember which ones? A. No. Q. Do you remember any generators that generated stillbottoms during the time that you were there? A. No. I don't remember getting stillbottoms when I was there. Q. Are you aware of any companies that generated any waste at the site that would have generated stillbottoms, even if they weren't brought to the site but that had an operation that would have generated 	7 8 9 10 11 12 13 14 15 16 17 18	 and I can tell you how many gallons. Twenty-five thousand gallons in one cell. A. What kind of industry? Q. We don't know. Would that ring any bells with you? A. No. Does it have a waste number, code number on it? Q. No. A. What time frame are you talking about? Q. 1977. It was before you were there. A. 1977. Okay, so it's not the ash from the coal reclamation. Q. Why do you say that?
9 10 11 12 13 14 15 16 17 18 19 20 21 22	 couple of generators that provided their own transportation. Q. Do you remember which ones? A. No. Q. Do you remember any generators that generated stillbottoms during the time that you were there? A. No. I don't remember getting stillbottoms when I was there. Q. Are you aware of any companies that generated any waste at the site that would have generated stillbottoms, even if they weren't brought to the site but that had an operation that would have generated stillbottoms? 	7 8 9 10 11 12 13 14 15 16 17 18 19 20	 and I can tell you how many gallons. Twenty-five thousand gallons in one cell. A. What kind of industry? Q. We don't know. Would that ring any bells with you? A. No. Does it have a waste number, code number on it? Q. No. A. What time frame are you talking about? Q. 1977. It was before you were there. A. 1977. Okay, so it's not the ash from the coal reclamation. Q. Why do you say that? A. Because that was after that.
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 couple of generators that provided their own transportation. Q. Do you remember which ones? A. No. Q. Do you remember any generators that generated stillbottoms during the time that you were there? A. No. I don't remember getting stillbottoms when I was there. Q. Are you aware of any companies that generated any waste at the site that would have generated stillbottoms, even if they weren't brought to the site but that had an operation that would have generated stillbottoms? A. Ashland Chemical had an operation 	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 and I can tell you how many gallons. Twenty-five thousand gallons in one cell. A. What kind of industry? Q. We don't know. Would that ring any bells with you? A. No. Does it have a waste number, code number on it? Q. No. A. What time frame are you talking about? Q. 1977. It was before you were there. A. 1977. Okay, so it's not the ash from the coal reclamation. Q. Why do you say that? A. Because that was after that. Q. Do you remember ash water coming
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 couple of generators that provided their own transportation. Q. Do you remember which ones? A. No. Q. Do you remember any generators that generated stillbottoms during the time that you were there? A. No. I don't remember getting stillbottoms when I was there. Q. Are you aware of any companies that generated any waste at the site that would have generated stillbottoms, even if they weren't brought to the site but that had an operation that would have generated stillbottoms? A. Ashland Chemical had an operation where they generated some stillbottoms from a 	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 and I can tell you how many gallons. Twenty-five thousand gallons in one cell. A. What kind of industry? Q. We don't know. Would that ring any bells with you? A. No. Does it have a waste number, code number on it? Q. No. A. What time frame are you talking about? Q. 1977. It was before you were there. A. 1977. Okay, so it's not the ash from the coal reclamation. Q. Why do you say that? A. Because that was after that.
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 couple of generators that provided their own transportation. Q. Do you remember which ones? A. No. Q. Do you remember any generators that generated stillbottoms during the time that you were there? A. No. I don't remember getting stillbottoms when I was there. Q. Are you aware of any companies that generated any waste at the site that would have generated stillbottoms, even if they weren't brought to the site but that had an operation that would have generated stillbottoms? A. Ashland Chemical had an operation 	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 and I can tell you how many gallons. Twenty-five thousand gallons in one cell. A. What kind of industry? Q. We don't know. Would that ring any bells with you? A. No. Does it have a waste number, code number on it? Q. No. A. What time frame are you talking about? Q. 1977. It was before you were there. A. 1977. Okay, so it's not the ash from the coal reclamation. Q. Why do you say that? A. Because that was after that. Q. Do you remember ash water coming into the site from that generator while you

30 (Pages 114 to 117)

1			
	Page 118		Page 120
	water but it was essentially the solid residual	1	A. On occasion, yes. I would either
2	from making the synthetic oil and it was	2	meet with them at our site or go to their site
3	similar to fly ash type material.	3	for various reasons, basically to support the
4	Q. So is it something that might have	4	sales folks if they had particular questions or
5	been wetted down with water and then came into	5	problems or needed help with something.
6	the site in that wet form?	6	Q. Would these be questions or
7	A. That's what it sounds like. I	7	problems pertaining to the specific type of
8	don't know. It could have been a wet fly ash	8	waste they were looking to dispose of?
9	from a power plant or something like that. Or	9	A. Could be toward the type of waste
10	out of a scrubber. I don't know.	10	or it could be we found something when we did
11	Q. Do you recall any bulk latex being	11	the analysis that they didn't know about it or
12	disposed of in the barrelfill?	12	questioned and so you would have to go back and
13	A. Not in the barrelfill. I do	13	help them figure out why they ended up with
14	remember a bulk latex that came in a in a	14	something I remember a customer there in
15	tank that was buried in the sanitary landfill	15	Springfield that wanted to ship us oil, we
16	and that was I don't remember the generator,	16	checked it and found a lot of chlorinated
17	but this material had solidified inside of the	17	solvent in it and they immediately said we
18	tank so they picked up the whole tank with a	18	don't have any chlorinated solvent in our whole
19	crane and shipped it over and they dug a big	19	plant so it can't be, your test is wrong, and
20	hole and rolled the tank into it and buried it.	20	we took other samples and checked it again and
21	Q. So is it possible that bulk	21	no, it's chlorinated solvent, can't take your
22	materials that were buried in underground tanks	22	oil, and after a couple of those they said you
23	were reported on the same cell logs as the cell	23	come out to the plant and show us where this
24	materials?	24	chlorinated solvent is coming from and the
25	A. No, I don't think so because	25	salesmen and I went and went through the plant,
	Page 119		
1	these I remember that are I if it is it		Page 121
1	those I remember that one I think that's	1	found the degreasing operation and explained to
2	those I remember that one I think that's the only tank that I can remember that came in	2	found the degreasing operation and explained to them that even though they bought it as white
2 3	those I remember that one I think that's the only tank that I can remember that came in and that was put in the sanitary part, not into	2 3	found the degreasing operation and explained to them that even though they bought it as white solvent, it was really chlorinated solvent and
2 3 4	those I remember that one I think that's the only tank that I can remember that came in and that was put in the sanitary part, not into the cell or the drumfill.	2 3 4	found the degreasing operation and explained to them that even though they bought it as white solvent, it was really chlorinated solvent and they were dumping it into their oil tank so
2 3 4 5	those I remember that one I think that's the only tank that I can remember that came in and that was put in the sanitary part, not into the cell or the drumfill. Q. Is it possible that any drummed	2 3 4 5	found the degreasing operation and explained to them that even though they bought it as white solvent, it was really chlorinated solvent and they were dumping it into their oil tank so they didn't know they had chlorinated solvent.
2 3 4 5 6	those I remember that one I think that's the only tank that I can remember that came in and that was put in the sanitary part, not into the cell or the drumfill. Q. Is it possible that any drummed material that was destined for disposal in the	2 3 4 5 6	found the degreasing operation and explained to them that even though they bought it as white solvent, it was really chlorinated solvent and they were dumping it into their oil tank so they didn't know they had chlorinated solvent. They switched to something else and eventually
2 3 4 5 6 7	those I remember that one I think that's the only tank that I can remember that came in and that was put in the sanitary part, not into the cell or the drumfill. Q. Is it possible that any drummed material that was destined for disposal in the cell was emptied out of the drums before it	2 3 4 5 6 7	found the degreasing operation and explained to them that even though they bought it as white solvent, it was really chlorinated solvent and they were dumping it into their oil tank so they didn't know they had chlorinated solvent. They switched to something else and eventually we got a customer out of it.
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	Page 122		Page 124
1	A. Yes.	1	in my notes. Gary Karas and Vaughn Arthur,
2	Q. Who conveyed the test or the	2	when did those people actually work in the lab,
3	sample for the solvents to the generators, did	3	were they there before you?
4	that go from you directly to them or did that	4	A. They were there when I came and we
5	go through a salesperson?	5	all left together.
6	A. That typically went through	6	
7	salespeople. The analysis would be done, the		Q. Do you know how long before you
8	lab manager would double shark would be unle, the	7	came they had started?
	lab manager would double-check everything, make	8	 No, I don't know how long before.
9	sure it looked like it made sense to him, he	9	MS. JALICS: That's all I have,
10	would sign off on it, it would come back to me	10	Thank you.
11	and I would review it, make recommendations for	11	MS. WOLFE: That concludes our
12	what we could do with the material, that would	12	deposition for today. The court reporter that's
13	go back to the salesman who would then contact	13	been taking down your testimony today will prepare
14	the customer.	14	a written bard conv of a transprint from to doub
15	Q. And I think you have already	15	a written hard copy of a transcript from today's
16	answered my question, but the generators then		deposition and you will have an opportunity, if
17	Would sometimes call if they did have available	16	you want, to read it and make any corrections to
18	would sometimes call if they did have questions	17	form or substance that you feel are necessary and
	and you would be the person to speak to them or	18	then sign it and return it to the court reporter.
19	explain the situation?	19	Or if you choose, you can waive that opportunity
20	A. Well, normally they would talk to	20	if you feel that it's not necessary and then just
21	the salesman and the salesman, if he could	21	it will go into the record as it is.
22	answer, would take care of it. If it was	22	THE WITNESS: I probably ought to
23	technical in nature or something that he didn't	23	look at it. I don't know how awake I am today.
24	have an answer to, then he would typically get	24	MS. WOLFE: Then it will be sent to
25	me involved in it.	25	Volt within a couple weeks and you say to be
		25	you within a couple weeks and you can talk to your
	Page 123		Page 125
1	Q. And I had a question in my notes	1	attorney about getting it signed and returned to
2	that I just wanted to clarify. If the salesmen	2	the court reporter.
3	themselves bring the samples to the lab, those	3	(Thereupon, the deposition was
4	were collected from the generator?	4	concluded at 12:27 p.m.)
5	A. Most of the time the salesmen went	5	concluded at 12.27 p.m.)
6	out to the customer, got the sample. We had a		
7	form for them to fill out, what kind of	6	
8	material is it, how much de use to the fi	7	
	material is it, how much do you have, how often	8	
9	you going to ship it, what form, all that.	9	
10	That came back with the sample, went to the lab	10	
11	for analysis and then back through the system.	11	
12	Occasionally a customer, especially an ongoing	12	
13	customer, rather than wait for a salesman to	13	
14	come out would just send in a sample with the	14	
15	information and we would go through it that	15	
16	way.	16	
17	Q. Okay. So then they would still	17	
18	have contact eventually at the back end with a		
19	salesman or was that	18	
20		19	
20	A. Well, that was generally an	20	
	ongoing customer that already had a contact but	21	
22	he's got a new waste stream that he wants to do	22	
23	something with.	23	
24	Q. Okay. And I just wanted to	24	
25	clarify one thing that I had a question about	25	
		25	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Page 126 I, WAID NELSON WALLIS, do hereby certify that the foregoing is a true and accurate transcription of my testimony. Dated	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Page 127 STATE OF OHIO) COUNTY OF MONTGOMERY) SS: CERTIFICATE I, Mary Jo Stevens, a Notary Public within and for the State of Ohio, duly commissioned and qualified, DO HEREBY CERTIFY that the above-named WAID NELSON WALLIS, was by me first duly swom to testify the truth, the whole truth and nothing but the truth; that said testimony was reduced to writing by me stenographically in the presence of the witness and thereafter reduced to typewriting. I FURTHER CERTIFY that I am not a relative or Attorney of either party nor in any manner interested in the event of this action. IN WITNESS WHEREOF, I have hereunto set my hand and seal of office at Dayton, Ohio, on this day of, 2005. MARY JO STEVENS NOTARY PUBLIC, STATE OF OHIO My commission expires 9-10-2006	

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type 23:11 24:5 35:23	V	13:7,9 14:9 15:14,14	124:25	worked 6:2 10:23 11:9
38:8 47:19 61:9	vacuum 90:19 92:20	15:17,20 16:6 17:9	weight 112:15	12:2,8,14,16,25 13:4
63:24 67:6 79:21	93:1	19:23 20:13,25 21:11	went 11:1,18,20 12:18	14:2 26:12,17 27:7,8
86:18 118:3 120:7,9	vacuumed 89:20 90:19	21:15,24,25 22:14,25	15:7 16:18 22:3 24:3	27:10,11 29:6,16
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types 45:15 47:13,18	93:6	29:24 33:25 34:20	45:16 47:17,18,25	worker 30:18
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			 Page 12
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2005 1:19 127:17			
2008 106:22			
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Mike Mobley Reporting 937-222-2259

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Attachment 2

Re: Clark Cr :y German Downship Application for A Chemical Landfill for Disposal of Various Solids and Chemical Sludges Received April 1, 1976 From I.W.D. Liquid Waste, Inc.

James A. Rhodes August 4, 1976 Governor Ned E. Williams, P.E. Director

RECEIVED

I.W.D. Liquid Waste, Inc. 3975 Wagner Ford Road 5 AN 3 42 Dayton, Ohio 4541400 5 AN 3 42





Gentlemen:

Enclosed is the Ohio EPA Permit To Install which will allow you to install the described source in the manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

As indicated on the permit, you are required to pay a permit fee as provided for in Ohio EPA regulation EP-39-02. The exact amount of this fee is indicated on page 1 of the Permit To Install. This amount must be remitted within fifteen (15) days of the effective date of the Permit To Install. Checks should be made payable to: Treasurer, State of Ohio and sent to Ohio EPA, New Source Permit Records Section, 361 East Broad Street, Columbus, Ohio 43215.

Under Ohio Revised Code, Chapters 119 and 3734, this permit will take effect on the date indicated unless you or an objector requests an adjudication hearing within thirty (30) days of the date of issuance, as provided for by Ohio Environmental Protection Agency regulation EP-40-13. At an adjudication hearing you may appear in person, or be represented by your attorney, or by such other representative as is permitted to practice before this agency, or you may present your position, arguments, or contentions in writing. At the hearing you may present evidence and examine witnesses appearing for and against you. Requests for hearing shall be in writing and shall specify the issues of fact and law to be contested. Requests for hearing should be sent to the Hearing Clerk, Box 1049, 361 East Broad Street, Columbus, Ohio 43215.

The agency may withdraw this permit at any time before it takes effect.

I.W.D. Liquid Maste, Inc. August 4, 19; Page 2

If you have any questions, please contact the Ohio EPA District Office or local air pollution control agency to whom you submitted your application.

Very truly yours,

eline J. Thisbaum

Jacqueline J. Nusbaum, Chief New Source Permit Records Section

JJN/bs

Copy to Mr. John C. Wright

" " Clark County Health Department

" " System Technology Corporation

" " Southwest District Office, Public Wastewater

OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install

Application No. 05-139

Applicants Name: I.W.D. Liquid Waste, Inc. Permit Fee: \$ None

Address: 3975 Wagner Ford Road

City: Dayton State: Ohio 45414

Telephone: (513) 323-9382

Description of Proposed Source: A chemical landfill for disposal of various solids and chemical sludges, German Township, Clark County

Issuance Date: August 4, 1976

Effective Date: September 20, 1976

The above named entity is hereby granted a permit to install for the above described source pursuant to Chapter EP-30 of the regulations of the Ohio Environmental Protection Agency. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described source of pollutants will be granted the necessary operating permits. This permit is granted subject to the following conditions attached hereto:

Ohio Environmental Protection Agency

Ned E. Williams, P.E. Director 361 East Broad Street Columbus, Ohio 43215 I.W.D. Liquid Waste, 2. August 4, 1976 -Page 2

Substantial construction for installation must take place within eighteen months of the effective date of this permit. This deadline may be extended by up to twelve months, if application is made to the Director no less than sixty days before the expiration of this permit and the party shows good cause for any such extension.

The proposed source shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, examining records or reports pertaining to the construction, modification or installation of the above described source of environmental pollutants.

A permit fee specified above must be remitted within 15 days of the effective date of this permit to install, to the Treasurer, State of Ohio.

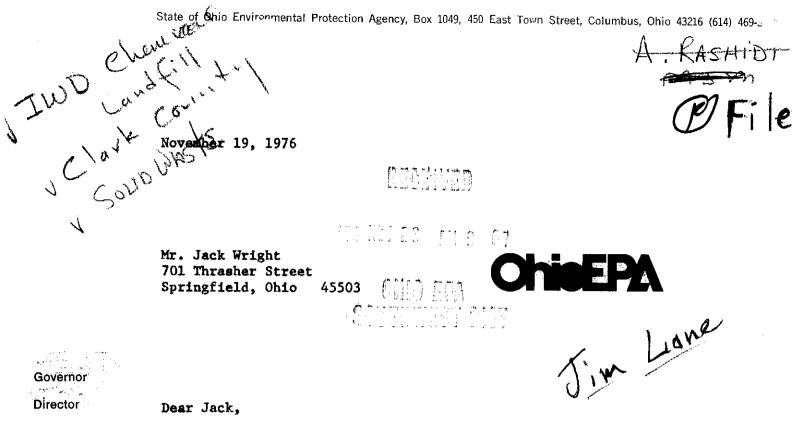
This permit shall apply only to the source shown on the plans approved by the Ohio Environmental Protection Agency.

A report, which provides a technical appraisal of the results obtained during normal operating conditions of the new facilities shall be submitted to the appropriate District Office of the Ohio Environmental Protection Agency no later than three months after the new facilities are placed into operation.

Daily records of operation shall be maintained and submitted to the Ohio Environmental Protection Agency at the end of each month.

Monitor wells shall be installed by the owner or operator. Locations, depths, and other characteristics of such wells shall be as required by the Ohio Environmental Protection Agency.

The solid waste disposal site or facility shall be completed and ready for operation before the acceptance of solid wastes. Notification that this condition has been met, shall be submitted in writing, to the appropriate Ohio Environmental Protection Agency District Office at least thirty (30) days prior to the acceptance of any solid wastes.



Dear Jack.

I finally received the leachate data on the IWD sample IWD 083076 from Howard Laboratories on November 17, 1976. Abduhl Rashidi and I are agreed that this plastic waste from Monsanto should not be placed in your chemical waste landfill because of the high content of soluble phenol in the waste.

We cannot agree with the recommendation of your operational panel to dispose of the Monsanto plastic waste #IWD 083076 in your chemical waste landfill at Tremont City, Ohio. Phenol is one of the more toxic industrial organic chemicals. For example the standard for drinking water is less than 0.001 ppm. It is also soluble in water and mobile through soils. For this reason it is not a candidate for landfilling unless the soils under the site are very impermeable and there is sufficient biological activity in the landfill to metabolize the phenol. The permeability of soils under your landfill are from 30 to 70 times greater than that desired for a hazardous waste facility. Also, no one can really say what microbiological activity might develop in your chemical waste landfill since it is quite different from conventional landfills.

I would now like to list the items I verbally approved in the November 16, 1976 meeting between myself and your operational panel. As time permits. I will be writing another draft of Dr. Howard's report so you will have a better idea of the kinds of information your operational should put together for review by OEPA. I gave verbal approval to the following wastes in our November 16 meeting:

C0004	H0021	F0016	J0030		
E0006	J0025	J0031	Q0049		
F0013	T0052	J0026	P0042	thru	P0048
G0019	U0053	J0027			

Mr. Jack Wright November 19, 1976 Page Two

You will also recall that N0041 and V0054 were to be buried by themselves and that waste of unknown composition will not be accepted from University laboratories in the future. Abduhl cannot make a November 30, 1976 meeting. He will set up a meeting as soon as possible.

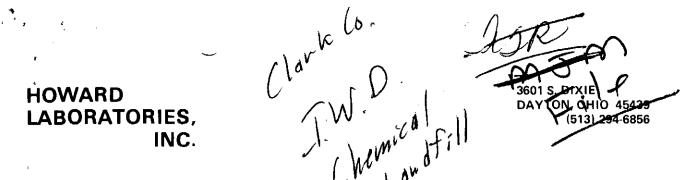
Sincerely,

Robert 2 Summer

Robert E. Brown Public Health Engineer Office of Land Pellution Control

REB/pam

cc: Abduhl Rashidi cc: Don Day/file



November 15, 1976

REVIEW OF MATERIAL AWAITING DISPOSAL

On November 10, 1976, a meeting was held for the <u>IWD Chemical Landfill</u>. Operational Panel at the offices of the Ohio Environmental Protection Agency, 7 East Fourth Street, Dayton, Ohio, to discuss and describe the precedences in which certain waste materials will be placed in the IWD Chemical landfill disposal cell near Springfield, Ohio.

A list of the 54 different items were proposed for disposal by IWD. After some discussion it was agreed by the Ohio EPA and IWD that Howard Laboratories, Inc. would prepare in writing a list of materials from those 54 items for disposal and action necessary, if any, to investigate and describe more thoroughly the composition of the remaining items in question.

It was further agreed that this report should establish priorities listing those materials which could be disposed of without further investigation and in addition include particular questions which may be raised for the remaining items prior to their disposal.

In order to prepare a list of this nature, we have used the following criteria:

1. Material presently in the disposal cell.

- a. Safety
- b. Potential chemical reactions

2. Immediate hazards of material to be added.

- a. Individual safety
- b. Toxicity of wastes
- c. Immediate chemical reactions
- 3. Prolonged and potential hazards
 - a. Delayed chemical reactions
 - b. Physical and chemical characteristics of reactant products
 - c. Safety

Each heading and subheading of the above criteria is further broken down in order to fully investigate the potential hazards which may exist. These latter criteria, however, are not established in a formal format for it is assumed that the individuals reviewing this report are sufficiently aware of the many questions raised under each heading. After careful review of the waste material contained in the individual drums and indicated as a "material number" on the IWD material data sheet, we have determined that the following material numbers may be readily disposed of in the landfill cell without posing any serious or hazardous problems:

circled OK

A-0002
(C-0004)
(E-0006)
F-0010
(F-0013)
F-0016
G-0019
H-0020
(H-002D)
H-0023
J-0025
J-0026
J-0027
J-0028
1-0029
V ++=+
J-0030
J-0031

M-0037 M-0038 M-0040	by relf
N-004D buried	59 - 211
P-0042	
P-0043	
P-0044	
P-0045	
P-0046	
P-0047	
P-0048	
Q-0049	
R-0051	
<1-0052	
(V-0054) Duried	by self
W-0055	•

Statements for approving material for disposal are indicated as follows:

A-0002

This material is partially degraded cellulose and polyelectrolytes. The polyelectrolytes are now being used extensively in waste treatment and in agricultural applications with no adverse effects.

C -0004	H-0021
E-0006	J-0025
F-0013	T-0052
G-0019	U-0053

Paint sludges typically contain zinc, chromium, and a few other metals. However, in view of the polymerized and stable vinyl compounds, the percentage of free metals in such material is negligible. Further, these stable vinyl compounds have a tendency to bind many other metals and compounds which prevent such materials from leaching rapidly.

F-0010 M-0040 W-0055

Some ink wastes contain a good deal of lead, chromium, and zinc, but due to the high percentage of carbon black in such compounds, the metals are of little concern. In addition, almost all ink wastes contain a small quantity of organic material used as a solubilizer and these materials tend to chelate the metals.

F-0016 J-0031

Heavy oils and greases by their very chemical nature are slowly degraded by bacteria by the process of alpha, beta, and gamma oxidation. The process proceeds so slowly that no problems should exist in a landfill.

H-0020

Polyurethanes of this type are quite safe in such landfills. During the polymerization reaction, however, a few toxic chemicals may be driven off depending upon the particular reaction employed. For all practical purposes, these by-products have been released and are below toxic levels.

H-0023 J-0028 J-0029

Such material when exposed to free oxygen will polymerize upon volatilization of a low molecular weight hydrocarbon and in some cases, depending upon the manufacturer, many produce organic chemicals during the polymerization reaction. Such chemicals as acetic acid, however, pose no problems.

MI-0038

Ethyl cellulose may also be placed in the same category as A-0002 because of its recalcitrant characteristics. The material may contain small quantities of ketones which should pose no problems because of the low quantities.



These materials are in bulk and should be used to cover the drums which have been placed within the cell. The polyols, the polyethylenes, and the asbestos will not produce any hazardous chemical reactions nor will such materials tend to leach and may well be used as a sealant around the drums.

N-0041 V-0054

These materials would pose the most critical questions in trying to understand the chemical composition. However, since they are incapsulated in concrete, no problems should exist.

REVIEW OF MATERIAL

P-0042 thru P-0048)

These materials are organic in nature, that is, they are chelated fatty acids in some cases containing a relatively inert solid which is used as an abrasive. Since they are organic fatty acids, they will in time produce large quantities of methane gas. The release of such methane gas would be relatively constant and should pose no explosive threats.

M-0037 R-0051

Heavy metal sludges, in bulk, could be either mixed or placed on the surface of bulk asbestos, polyols, etc. Such a procedure will allow the polyols and other metals to better seal air pockets around the drums. Such bulk metals should not be placed around the drums exclusively and for this reason we will recommend that the bulk heavy metals be placed in this particular cell along with the asbestos and bulk polyols.

It is our understanding that the metals are to be placed in a separate cell and with a few exceptions this material should pose no problems for immediate disposal. Because of the cation effect, such metals do not leach readily. We would recommend that the following material numbers be included in this group:

B-0003	
D-0005	
F-0008	
H-0022	
K-0033	

With reference to No. F-0008, the barium hydroxide sludge, some question may arise as to the safety of disposing of barium in this manner. It should be kept in mind that natural deposits of barium within central and western Ohio do exist. However, solubility of barium is dependent, among other factors, upon the pH of the aqueous medium. With this factor in mind, we should have no question about the disposal of barium hydroxide sludge in such a landfill.

F-0011

Heavy metal chlorides are extremely soluble in water and because of the very toxic nature of cadmium, we would recommend this material not be disposed of in this particular landfill unless it is encased in concrete.

F-0015

This material should not be disposed of in this landfill until the quantity of chlorinated solvents has been determined.

REVIEW OF MATERIAL

Similarly we are recommending that the following material numbers be sampled and analyzed for the compound indicated prior to approval for disposal:

<u>Material No.</u>	Compound in Question
A-0001 E-0007 F-0009 F-0012 F-0014 G-0017 F-0018 H-0024	Volatile Hydrocarbons Phenols Cyanide and phenols Cyanide Cyanide and phenols Percent Chlorinated Solvents Volatile Hydrocarbons
J-0032 L-0034 L-0035	""" (Phenols test completed.) Volatile Hydrocarbons PCB's
L-0036 M-0039 Q-0050	Cyanide Silica Dioxide Phenols and Cyanide

The concentration of each of the components listed in a particular sample should be determined. Since the chemistry employed in the production of those materials is so complex, there exists the potential for high concentrations of a number of toxic compounds. It may well be that the chemistry is not so involved and that the products produced and the by-products so formed may be harmless. However, we recommend as a matter of safety that the compound be investigated at the present time.

It is our recommendation that additional materials upon which approval is being requested for disposal in any particular landfill cell should be investigated for compatability with those materials presently in that cell. Our recommendations for disposal have considered such compatability.

It must also be kept in mind that absolute control upon selectively compiling material by the generator cannot be achieved. For this reason we must always maintain a margin of safety in accepting materials for disposal.

This report is respectfully submitted.

Howard Ph.D.

David L. Hóward Ph.D. President

DLH:jo

IWD Chemical Landfill Operational Panel Meeting November 10, 1976

Abdul Rashidi Bob Brown David L. Howard, PhD Bob Wright Clyde E. Hill, Jr.

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Ohio EPA Ohio EPA Howard Laboratories, Inc. IWD Liquid Waste IWD Liquid Waste

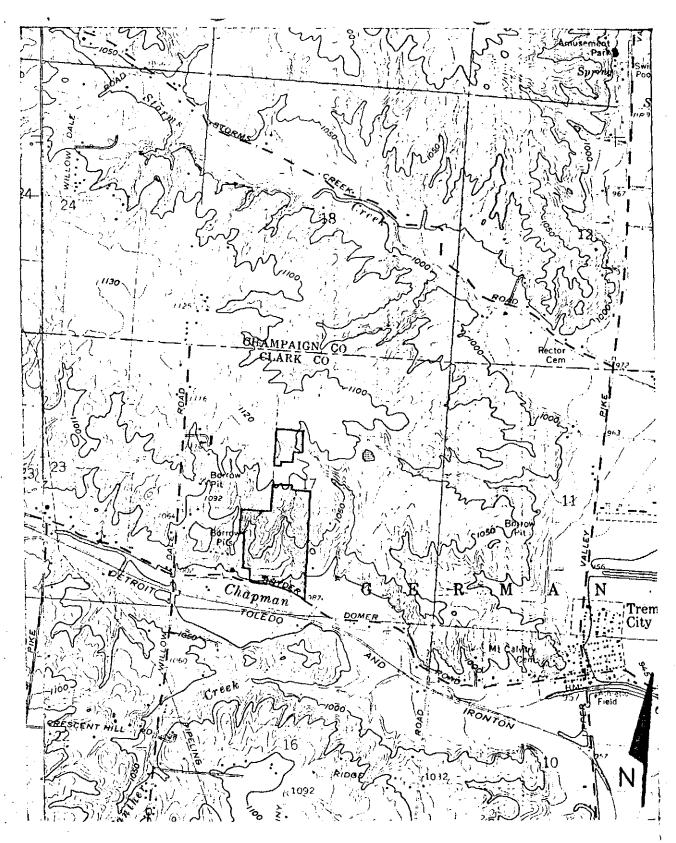
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Mr. Dama Trenant Jan Affell Talk in the Strappell) mber Schnedt 1969 October - aproved ende Dept of Health Hend Eagen Sates factory site based on geology No monitoring was required Informational Akceling Ma Damis Dr. - Monitoring ! Miles Schmidt - Public pressure to get monitoring - Landfill would not nelease the date a monitoring wells and water chemitry Themont Shares daily wy EPA ? Jocater of Site Hertony > "Inviting wells + Detailed report in the Landfil Herb Eagen -Banul fill GW-SW Chapmanert " Monidour welle 11/4 Poc pipe Base of landfell set on interfedded sand sett and clay layer. Groundwath movement toward the Chapman creek Underbying sand outcropsints the creek is descharge Groundwater deschanges into the Stream via the dand + gravel Census Brid Valley Underlying the dets & defens to the East

"Piperie and las will be a loss apartur fille site "> it is most known if the represence is in the saturated gove

Need elevation of water lable Apparently down gradient flow to lower bedrock againfu Bard lerves 981 clev P Lincites

Herb 1st impression - Serie and Sompling Continue the monitor Recidential well



SCALE 1" = 2000'

Figure 1. General Location Map

File Clark l Landfill IWD



245 North Valley Road

Xenia, Ohio 45385 Area Code 513/372-8077

6 October 1976

NGCE Specialists in environmental technology SYSTEMS TECHNOLOGY CORPORATION

AT 10 17

Ohio Environmental Protection Agency Chief Land Pollution Control Section 7 East 4th Street Dayton, Ohio 45402

ATTN: Mr. Abdul Rashidi

Dear Abdul,

This letter is to inform you that Systems Technology Corporation is withdrawing further participation and do not wish to be listed as the engineer of record for the chemical storage landfill of I.W.D. Liquid Waste Incorporated, Springfield, Ohio. This decision was based upon a mutual agreement between I.W.D. and Systems Technology Corporation.

.776 CCT

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Very Truly Yours,

SYSTEMS TECHNOLOGY CORPORATION

Melvin C. Eifert Vice-President of Engineering

MCE/map

A Subsidiary of Systems Research Laboratories, Inc.



I.W.D. LIQUID WASTE, INC.

3975 Wagoner Ford Rd. P. O. Box 1458 Dayton, Ohio 45414 (513) 278-0821 701 Thrasher St. Springfield, Ohio 45503 (513) 323-9382

RECEIPED

September 20, 1976

Abdul S. Rashidi, P.E. Chief, Land Pollution Control Southwest District Office ... 7 East Fourth Street Dayton, Ohio 45402

Dear Mr. Rashidi:

I.W.D. Liquid Waste, Inc., will begin work on the new Chemical Landfill on Snyder-Domer Road in German Township, Clark County, on September 20, 1976. We would expect a 2-3 week construction period and we will inform you when we are ready for an inspection.

Regarding Mr. Bob Brown's inter-office communication dated June 25, 1976, I am enclosing our comments and answers to his questions of that day. I believe these will be self-explanatory and I am, of course, available for any further discussion regarding his communication.

A. Highly Toxic Waste:

It is our opinion that a definition for a "highly toxic waste" would not be beneficial for the program. You can ask for a definition of highly toxic wastes in the application from 50 different sources and obtain 50 different definitions. We believe that with the checks we have on the material to be landfilled (operation panel), and the final approval of waste by OEPA, that a definition for highly toxic waste is not necessary. We agree that all the materials to be placed in the landfill should be placed in a manner "to protect the landfill employees, nearby residents, and the environment from injury during the process of placing the waste in the landfill."

B. Monitoring:

The point that water movement through the cell might dissolve some of the wastes is well taken. However, it



I.W.D. LIQUID WASTE, INC.

3975 Wagoner Ford Rd. P. O. Box 1458 Dayton, Ohio 45414 (513) 278-0821 701 Thrasher St. Springfield, Ohio 45503 (513) 323-9382

is our opinion that there will be little water movement in the area of the cells based on the following reasons.

- 1. The site is near the top of the hill so that there are no large areas above the site from which infiltrated water will flow laterally.
- 2. Since the permeability of the soil is low the infiltration rate is low. Therefore, only a very small portion of the rain moves vertically through the soil to become groundwater.
- 3. All surface water will be diverted around the site to reduce the amount of water available for infiltration.
- 4. The open cells will be pumped before disposal is started and will be diked to prevent the surface rain runoff from flowing in.
- 5. The water table is so far below (>100 feet) the bottom of the cells that it would not rise to the bottom of the cells even in the wettest seasons.
- 6. The water bearing highly permeable soils that appeared in the soil borings are only lenses or small channels which contain trapped water. In the plans it is stated that if these soils are encountered during the excavation of the cells the lense or channel shall be sealed with compacted earth.

We agree with the analysis for trace organics and metals. This is mentioned in the plans to be done quarterly.

As for the piezometers, the water gradient development (if any) can be monitored by the suction lysimeter wells. We would recommend this approach.

The analysis of soil cores, every 3 to 4 years to determine the extent of movement (if any) of the wastes will be performed.

C. We agree that erosion control is important but we do not believe that the soil testing is required immediately.



I.W.D. LIQUID WASTE, INC.

3975 Wagoner Ford Rd. P.O. Box 1458 Dayton, Ohio 45414 (513) 278-0821

701 Thrasher St. Springfield, Ohio 45503 (513) 323-9382

It is required by the operation plans to cover each cell. with 5 feet of cover and seed immediately for erosion control. If the grass and plant cover does not develop then the soil test would be appropriate.

Sub-paragraph 2 on page 15a should read: D.

The Southwest District office of the Ohio EPA will respond in writing within ten days with either a decision regarding the acceptability of the waste stream or a request for more information regarding specific properties of the waste stream. If more information is requested the Southwest District Office of the Ohio EPA will respond with a decision in writing within 10 days after all requested information is supplied. This procedure will be used for all those materials that do not fall into the classifications set forth in attachment 3 of this proposal.

E. Encapsulation

The only encapsulation method being employed initially is the encapsulation of some of the wastes in barrels. This is only a temporary encapsulation unless the bulk sludges that surround the barrels prevent the barrels from rusting.

F. Non-Compatible Waste

Waste will be segregated at the site into classes in order to prevent the following reactions in the disposal cell:

- Liberation of enough heat to cause fire. 1.
- Generation of explosive pressure. Liberation of toxic gasses. 2.
- 3.
- Reaction which would tend to reverse pretreatments and increase the hazards of the waste after it is placed in the disposal cell.

G. A building exists at the sanitary landfill. Materials received in bulk form will be taken directly to the cells on constructed roads. We have never encountered a scrious problem with blown dust from stock piled dirt. If however a problem occurs, screens or other appropriate techniques will be implemented to resolve the problem.

Springfield Facility н. The Springfield Facility is not an essential part of the



I.W.D. LIQUID WASTE, INC.

3975 Wagoner Ford Rd. P. O. Box 1458 Dayton, Ohio 45414 (513) 278-0821 701 Thrasher St. Springfield, Ohio 45503 (513) 323-9382

operation.

I. The paragraph on winter operation (p.13) should read:

" All traveled roads and the disposal site will be clear and well maintained during the winter by plowing with the use of on-site equipment including road graders and dozers."

J. Spills

Since wastes are of relatively low volume and high viscosity they would not flow fast or far. The on-site equipment could then be used to clean up the spill and place it in the cells.

I will be in close contact with your office as the construction proceeds, and hopefully we'll be in operation during the first half of October.

Sincerely,

Jack Wright, Vice President - General Manager I.W.D. Liquid Waste, Inc.

JCW:mrf

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I have reviewed the plans and find that for the most part they are satisfactory. Therefore, the plan approval red tape will be initiated. However, there are some additional points which should be added to the plans as outlined below. Also, I have some questions which I would like IWD to comment on. Hopefully, this can all be handled by letters from IWD which can be attached to the plans as a part thereof.

Additions to the plans

A. Highly toxic waste. Page 15 of the plan report indicates that no highly toxic waste will be accepted; however, many would consider asbestoes as highly toxic. Therefore, there is a need for IWD and OEPA to come to an agreement at this time as to the meaning of the phrase "highly toxic". A working definition of highly toxic should be added to the plans. A definition for consideration might be the following:

"A highly toxic waste is a material which must be containerized in some fashion in order to protect the landfill employees, nearby residents, and the environment from injury during the process of placing the waste in the landfill. Also, because of the porisity of the soil and the existence of saturated soil conditions above the cell bottom during a portion of the year (pg. 45 of report) this additional restriction is required. The waste must not contain toxic components which are soluble enough in water to leach from the site in a quantity sufficient to threaten the quality of water in nearby wells or surface waters."

Monitoring. Contrary to the arguments presented in the report, in my **B**. judgement there is a significant potential for leachate problems. I agree, that the polyol and other viscous materials would leach very slowly; however, the important factor is the rate of water movement through the cell and what might be dissolved by this water. Therefore, it is recommended that the analysis of leachate be expanded to include analysis for solvents and other organics which might be dissolved from paint sludges, glues, and adhesives. Often only small quantities of such organics need be dissolved to adversely affect the taste of water and to have toxic effect on aquatic life. Secondly, it is recommended that a system of piezometers be placed in the initial cells, as they are completed so that we can observe the development (if any) of a hydraulic gradient across the cells. Such a system would provide very useful information when it is time to consider additions to the last of waste to be received at this site and also when liquid wastes and sludges are placed in the cell. It is also recommended that a few soil cores be taken every three or four years to determine the extent of movement (if any) of metals from plating waste and the more viscous materials through the cell walls. The soil cores would be analyzed for such materials. Again this information will be useful in acessing the full potential of the site when consideration is given to adding items to the list of acceptable wastes.

C. Abandonment. It is quite important to spell out in detail how vegetation will be established on the site. Certainly this is as important as any item in determining the long term security of the site. Therefore, it is recommended that the plans require a soil test for fertilizer and lime requirements of the final cover. This analysis can be performed for a nominal fee by the soil testing laboratory of the Ohio State University College of Agriculture. Lime and fertilizer will then be worked into the surface to six to twelve inches of final cover in accordance with application rates and methods as recommended by the Cooperative Extension Service of the Ohio State University. Tall fescue or a grass equivalent in hardiness and erosion control will be planted and if necessary replanted until a dense plant cover is obtained. This will protect the solid until that time that the land reverts back to forest or is brought into agricultural production with appropriate erosion control practices.

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D. Additions to the list of accepted waste. The sub-paragraph 2 on page 15a should be rewritten. The current draft states "SWDO will determine acceptability of waste stream and will notify IWD in writing within 10 days of its decision." There will be times when not enough information is available for a decision Therefore it is recommended the paragraph be revised as follows:

"The Southwest District Office of the Ohio EPA will respond in writing within ten days with either a decision regarding the acceptability of the waste stream or a request for more information regarding specific properties of the waste stream, etc."

- E. A brief description of the encapsulation methods to be employed should be added to the plans so there will be no misunderstanding in the future.
- F. Non-compatible waste. This phrase should be defined in more detail on page 12. The following language is recommended; waste will be segregated at the site into classes in order to prevent the following reactions in the disposal cell;
 - 1. liberation of enough heat to cause fire
 - 2. generation of explosive pressures
 - 3. liberation of toxic gases
 - 4. reactions which would tend to reverse pretreatments and increase the hazards of the waste after it is placed in the disposal cell.

Questions for IWD

- A. How did you decide that you do not need a building for storage on the disposal site. I don't understand why rainfall would not cause handling problems for materials received in bulk form. Likewise would wind blown dust from stock piles would be a problem.
- B. Is your storage facility in Springfield going to be an "essential" part of the operation of the chemical waste disposal facility. If so, a brief description of this building should be attached to the plans and comments should be made on how you can prevent the escape of waste from this facility in the event of spills, accidents, fires, etc.

•. The paragraph on winter operation on page 13 is not clear to me.

D. Is there a possibility that a spill might escape from the site via the small creek of intermittent flow on the northeast section (page 15)? I question whether or not a prohibition of not filling within 60 feet of the streams protects you in case of a spill.

REB/pam

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IW	Bodul Rashidi and Steve Severyn	MMUNIC TION May 6, 1976 DATE May 6, 1976
···	Jeff Hosler	DATE
SUBJECT:	IWD Liquid Waste Inc. proposed ch	emical waste disposal facility,
	Clark County	

I have completed review of the final submission of detail plans for reference facility and have the following comments.

- 1. The geology as described in the plans is generally suitable for this type of facility.
- 2. The quality of ground water in reference area is adequately protected by the existing geology and by the precautions that will be taken by IWD Liquid Waste Inc.
- 3. The ground water monitoring program proposed in the detail plans is adequate to identify movement of waste materials through the site and to provide sufficient time for corrective measures to be taken should a significant problem of this type develop.
- 4. Given the types of waste for disposal, especially bulk wastes, it is questionable whether monthly analyses of lysimeters samples for conductivity, chlorides, and nitrates will be relevant. It may be more suitable to monitor COD, TOC, or some other parameter more closely related to the waste materials.

SUMMARY REPORT ON THE PROPOSED I.W.D. CHEMICAL LANDFILL, GERMAN TOWNSHIP, CLARK COUNTY.

Detail plans and an Application for Permit to Install were received on April 1, 1976. Additional information was received on May 10, 1976. Information pertaining to hydrogeology of the proposed site has been evaluated by Jeff Hosler of this office. He has indicated that the geology of the site is suitable for this type of facility and that the groundwater is adequately protected by the existing geology and by the precautions that will be taken by I.W.D. Liquid Waste Inc.

Clark County Health Department has reviewed the proposed plans and made no adverse comments. Clark County Regional Planning Commission also reviewed the proposed plan and has indicated that the German Township is not zoned, therefore, they have no control over approving or disapproving this project.

Concerning the need for this project, we feel there is a definite need for such facility in this area. At present there is no licensed chemical landfill in this area. Most of the chemical wastes generated end up in unauthorized landfills. Page 2 - Summary Report on the Proposed I.W.D. Chemical Landfill, German Township, Clark County.

In summary, from a technical and environmental point of view, the project is acceptable and insofar as public acceptance of the site is concerned, we have received no objections from either the public officials or private citizens to this proposal.

> Abdul S. Rashidi, P.E. Public Wastewater Group

/ REPORT ON DETAIL PLANS OF PROPOSED I.W.D. LIQUID WASTE, INC. CHEMICAL LANDFILL, GERMAN TOWNSHIP, CLARK COUNTY.

Detail plans for the proposed I.W.D. Liquid Waste, Inc. chemical landfill, German Township, Clark County, were received on April 1, 1976 from John C. Wright, Vice President-General Manager, I.W.D. Liquid Wastes, Inc. The plans were prepared by Systems Technology Corporation, subsidiary of Systems Research Laboratories, Inc.

The plans detail the development of a landfill for the disposal of liquid chemical wastes. The chemical landfill will be located adjacent to the existing North Sanitary Landfill, operated by I.W.D. Initially, the wastes to be accepted will consist of metal sludges, asbestos, paint sludges, polyol, glues and adhesives. Polyol and asbestos will be in bulk form; the other materials will be in 55 gallon drums.

The plans for the chemical landfill are satisfactory and it is recommended that they be approved.

Stephen A. Severyn Southwest District Office

Abdul S. Rashidi, P.E. Public Wastewater Group Page 2 - Report on Detail Plans of Proposed I.W.D. Liquid Waste, Inc. Chemical Landfill, German Township, Clark County.

Location

The existing North Sanitary Landfill is located in northern Clark County, one mile west of Tremont City, on the north side of Snyder-Domer Road. The proposed chemical landfill will be located immediately north of the existing sanitary landfill.

Site

The site consists of 14 acres located at the top of a hill. Because of that location, the only surface drainage problems will be those due to rainfall on the immediate site. The immediate topography slopes to the east. A small intermittent drainage course traverses the northeast corner of the site. No special precautions will be taken in that area, since no disposal will occur within 60' of the drainage course.

Design Basis

Attachment 3 of the Application for Permit to Install lists the types and quantities of wastes to be initially accepted:

<u></u>	aste	Quantity	Disposal Method
Me	etal Sludges	10,000 gal/mo.	encapsulated
As	sbestos	20,000 gal/mo.	bulk
Pa	aint sludges	25,000 gal/mo.	encapsulated
Po	olyol	6,000 gal/mo.	bulk
G	lues and adhesives	35,000 gal/mo.	encapsulated

The anticipated lifetime of the project is estimated at 15-20 years. It is expected, however, that additional types of wastes will be Page 3 - Report on Detail Plans of Proposed I.W.D. Liquid Waste, Inc. Chemical Landfill, German Township, Clark County.

accepted in the future. Because no such facility as this now exists in the area, it will be difficult to accurately forecast volumes of wastes. Naturally, the life of the landfill will be dependent on that factor.

Subsurface Geology

Five boreholes were drilled in and near the site of the proposed chemical landfill. The borings were made by Bowser-Morner Testing Laboratories, Inc., with evaluation and recommendations provided by Mr. Harlan H. Roepke, Geologist. In addition, Mr. Roepke has provided information in accordance with the Southwest District Office form, <u>Hydrogeologic Report of Proposed Waste Disposal Facilities</u>. The above mentioned information was evaluated by Jeff Hosler (SWDO Geologist). He has indicated that the geology of the proposed site is generally suitable for the proposed facility and that the ground water in this area will be adequately protected by the existing geology and by the precautionary measures proposed in the plans by I.W.D. Liquid Waste Inc.

Surface Water Control

Surface runoff from the site is to the east into a small intermittent creek located east of the proposed site. To control the surface runoff that originates from an area west of the site into and through the proposed site, the final grade along the west end of the site will be several feet above the existing grade. The Page 4 - Report on Detail Plans of Proposed I.W.D. Liquid Waste, Inc. Chemical Landfill, German Township, Clark County.

general slope of the final grade will be from west to east into the existing creek.

A temporary storage lagoon is also provided in the vicinity of the waste storage area. This lagoon will receive any surface runoff that results from the storage area. The wastewater collected in the lagoon will be pumped out and hauled away from the proposed site.

Leachate Control and Monitoring System

In general, formation of leachate will be minimal due to diversion of surface drainage and the combination of low permeable soils and high viscus waste. To monitor the surface and groundwater quality a network of monitoring wells is proposed. Groundwater quality monitoring will be accomplsihed by one deep well located in the southwest corner of the site. It is doubtful if groundwater contamination will occur in view of the fact that the maximum groundwater elevation is approximately 1,000 feet and the minimum cell elevation is 1085', providing about 85' of separation with many layers of clay in the separating stratum.

Horizontal migration of leachate through the soil, if occured, may effect surface water quality. In order to monitor this movement suction lysimeter observation wells will be installed. This will consist of early warning wells around the perimeter of this first set of cells and the long term monitoring wells around the perimeter of the landfill site. Page 5 - Report on Detail Plans of Proposed I.W.D. Liquid Waste, Inc. Chemical Landfill, German Township, Clark County.

Baseline samples will be taken and analyzed from all of the proposed wells. The parameters for which baseline analysis is to be performed will depend on the type of the waste material placed in the cells.

Monthly analysis for samples from the suction lysimeters and quarterly analysis for samples from the deep well for conductivity, chlorides and nitrates will be performed. Additional parameters may be analyzed for, if deemed necessary.

Access and On-Site Roadway

The main access to the site will be the existing two lane roadway from Snyder Domer Road to the sanitary landfill. Because of a limited traffic condition to the proposed sites, a one lane roadway will connect the main access roadway to the holding area. On-site roadways will also be one lane. These will be all-weather roads and be maintained during the winter by plowing with the use of on-site equipment.

Inclement Weather Operation

All incoming waste during the inclement weather will be stockpiled in the storage areas except for the bulk waste hauled by waste vehicles, owned and operated by I.W.D. which will take the waste material directly to the cell area. However, if weather conditions are very severe and do not permit on-site operation, the bulk waste will be temporarily stored at the I.W.D. liquid waste storage facility in Springfield. Page 6 - Report on Detail Plans of Proposed I.W.D. Liquid Waste, Inc. Chemical Landfill, German Township, Clark County.

Method of Operation

In general, method of operation will be that of a trench fill operation. Two to three cells will be opened at any one time to segregate the non-compatible waste. Each cell will be 40' x 40' and approximately 22' deep. Cell walls will be sloped to prevent landsliding. Also, wooden pallets will be placed on the bottom and sides of the cells so barrels will be encapsulated by bulk wastes. The barrels will then be placed in the cell in an organized manner and the voids between the barrels will be filled with the bulk waste. No intermediate cover material will be used between the successive barrel layers, however, a final cover layer of a minimum of 5.0' of clay material will be placed on the cell. The final cover will then be graded in accordance with the detail plans and will be seeded immediately. If a sand seam is encountered during the construction of the cell, the seam will either be removed totally, or removed so that it can be plugged with clay material available from the excavation of the cell. Total capacity of the landfill is estimated to be 100,000 cu. yd.

The equipment that will be available for preparing the site, the cell and operation and maintenance of this facility include: one 1 1/2 cu. yd Hydraulic Backhoe, one Fork Lift, and one D-8 Cat Dozer. Standby equipment will also be available at the adjacent sanitary landfill. Page 7 - Report on Detail Plans of Proposed I.W.D. Liquid Waste, Inc. Chemical Landfill, German Township, Clark County.

Future Use of the Site

The intended future use of the site is not known at this time. The site, however, will be graded to the final contour in accordance with the approved detail plans and will be seeded with grass and other shallow rooting vegetation to prevent erosion. As final cover will be a minimum of five feet layer of the topsoil and other material excavated, the site therefore could be used for agricultural purposes. If ponding of water or cracking of the cover occurs within five years after completion of landfill operation, the site will be regraded and/or additional cover material will be brought to the site to repair the undesired condition.

Safety Measures

First aid equipment will be available on site. Chemicals for fire fighting equipment will also be available on-site. Loose dirt, chemicals, and the water from the deep monitoring well will be used for fire protection. Fire is not anticipated to be a problem as most of the waste material will be encapsulated in steel drums and are not highly combustible. Additional safety measures include a permanent fence enclosing the storage area, a temporary fence enclosing the open cells, and a permanent 3' fence enclosing the entire proposed site.

Operations Panel

Prior to the commencement of the operation, an operational panel will be formed. Members of this panel will include representatives of I.W.D. and their consulting engineer. Ohio EPA will also be Page 8 - Report on Detail Plans of Proposed I.W.D. Liquid Waste, Inc. Chemical Landfill, German Township, Clark County.

invited on an informal basis. The panel will meet semi-monthly. The major functions of the panel include screening the waste material to determine their suitability for disposal at this site; establishing material logging and reporting requirements, preparing contingency plant for site defects, etc.

No material other than those stated previously, will be accepted at this site without prior consultation with the Southwest District of the Ohio EPA, in accordance with the following procedure:

- 1. I.W.D. will notify in writing, the Ohio EPA of the material to be disposed and the method of disposal.
- 2. The Southwest District Office of the Ohio EPA, will determine the acceptability of the waste stream and will notify I.W.D. in writing within 10 days of its decision for the disposal of the waste stream. This procedure will be used for all those materials that do not fall into the classifications set forth in Attachment 3 of this proposal.

Chemical Waste Storage

Chemical waste will be stored in segregated storage areas until sufficient quantities have accumulated or during inclement weather. These areas will be diked and enclosed by a fence. When sufficient quantities of waste have accumulated they will be taken to the landfill for final disposal during dry weather. Page 9 - Report on Detail Plans of Proposed I.W.D. Liquid Waste, Inc. Chemical Landfill, German Township, Clark County.

Building and Utility Facilities

The trailer office for the sanitary landfill will also be used for the proposed facility. A septic tank-leaching system, well water, electricity and telephone will also be available.

Estimated Cost

\$400,000

IWD North Sanitary Sanitary Landfill Meeting

January 26, 1976

Abdul Rashidi Melvin Eifert John D. Gedart John C. Wright Wndelll McElwee Dave Sharp Joe Moore Jeff Hosler Ohio EPA - SWDO Systech IWD IWD Ohio EPA - Cols. Ohio EPA - Cols. Ohio EPA - SWDO Ohio EPA - SWDO Mr. Melvin Eiffert Systems Technology Corp. 245 North Valley Road Xenia, Ohio 45385

Dear Mel,

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The following comments are keyed to the form "Hydrogeologic Characteristics of Proposed Waste Disposal Facilities" you sent me several weeks ago.

Page 1: paragraph 9: I believe that I.W.D. can furnish a more accurate map of their excavations than I can. The topographic map notes 3 other sites of excavation within 1 mile of the proposed site. Two pits are noted in the SW $\frac{1}{4}$ of Section 17, and a third is about $\frac{1}{4}$ mile northwest of Tremont City. Whether additional excavation has occurred in the vicinity, since the map was field checked in 1961, I have not determined. It would probably be easier to obtain verification from Ohio Division of Mines than for me to spend a day over there combing the hills & valleys for other excavations. I will do so, however, if you wish. I cannot swear to the extent or kind of quarrying in Clark Co. on the basis of my previous visits.

Page 1, paragraph 10: On the basis of what I have seen on the site, found on topographic and soils maps, and read in water well records, there are probably no rock outcrops within 1 mile of the I.W.D. site in Clark Co. Verification of this would require more waterwell records and/or field work.

Page 2, SUBSURFACE GEOLOGY

Paragraph 1 - United Soils Classification notation of the silt loam is ML or CL, probably ML. The sand in BH-2 and BH-3, the upper sand (at 15') in BH-4, and the lower sand (at 34') in BH-5 are SP. The lower sand in BH-4 (28.5 - 34") and the upper sand (5'-12') in BH-5 are SM. To be sure that the silt loam is in fact ML would require performing Atterburg Limit tests on the samples taken by Bowser & Morner. The appropriate notations added to the drilling logs (see an losson)

Paragraph 2-5: These properties were described in the drilling logs submitted 14 January 1976.

Paragraphs 6,7: The water well records indicate that bedrock is fractured limestone lying at elevations of about 915' to 930', i.e. at depths on the order of 150-200' below the site.

Paragraphs 8,9: I cannot answer these questions; to do so would require excavation of considerable magnitude or conjecture based on outcrops seen some 6-8 miles to the south. These latter, along US 40, show thin to medium bedded carbonate rocks, with vertical joints in several directions spaced at a few inches to 3 or 4 feet, and weathered noticeably to depths of 6 feet or less.

C. CROUND WATER GEOLOGY

Paragraph 1: Several water - bearing strata; moderately rapid to rapid in permiability, were intersected during drilling on the site. Clean, sorted sand at 8-10 feet in HH-3, and 5-12' in HH-5 may be related to the sandy mud at 7-12' in HH-1. These three bore-holes define a line trending NE-SW. HH-2 to the NW of this line, and HH-4,. We the southeast of the line, do not have clean sand in this interval, suggesting a HH-3W trending stream channel or two separate lenses of sand. These thin shallow may be the causes of seasonal seeps in nearby gullies, but do not appear to be part of significant aquifers.

Similar sand at 30-31 feet in EH-2 and 29 to 34 feet in EH-4 may also be part of a linear sand body, trending NW-SE, or may be isolated sand lenses. Again, these sand bodies may be the sources of seeps in nearby gullies, but are not significiant equifers. There are no bore-hold data on the site below 40 feet. Nearby water well records dicate one or two thin sand beds in the upper 50 feet or so of glacial till, but lidrillers bypass these in favor of gravel-rich beds or fractural limestone bedrock depth of 70 feet or more, which are capable of yielding adequate water for houseid use.

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Paragraph 2. The shallow sand beds are variable in thickness and depth. Borebld data indicate the shallowest sand may be intersected at depths ranging from 5'(EH-5) b 40+' (EH-1). These sand occurrences are overlain by glacial till. The bll is a mixture of all sizes of particles, with silt (.0625 to .0039 mm) dominant, and is not very permiable(laboratory measurements of permiability yield values between b and 10 cm/sec.). The first sand is separated by as little as 12' and by as uch as 28' + feet from still deeper sand layers. The material below the first and is also glacial till, silt loam in texture and generally less permiable than the weathered till near the surface.

Paragraph 3. Piezometric surfaces occur at three or more levels. Bore-holes to 0 feet show standing water at elevations near 1090!. Three water wells completed earby in gravels at 120-150' depths show water elevations between 930' and 1000'. No wells completed in limestone bedrock along Chapman Creek have water levels between 968' - 975'. The deep gravel and the limestone aquifers may well be interconnected. There are insufficient data to map a piezometric surface for these aquifers.

Paragraph 4. Water levels noted when the 40' boreholes were completed were recorded by the Bowser & Morner drill crew, and should appear in their report to you. These levels do not meet the requirement that the hole be open ..."a sufficient amount of time to allow water level to stabilize". The holes were plugged by the drilling crew, as required by their company policy, so there is no way to check the levels now. I believe that records of present water levels, no matter how precise, are measures of transient values, at least in the vadose zone (the brown, oxidized, upper 10-12 feet). Monitoring wells peripheral to the land fill trenches would be good in surance; not be much for recording water table fluctuations as for sampling the quality of the pround water. They could even be rigged with simple ohmmeters to detect variations in resistance, generally correlative with dissolved salt content and therefore with pollution.

Paragraph 5. This requirement is met with the drilling logs.

Paragraph 6. Directions of groundwater flow may be surmised from the slope of the water table and by the presence of seeps and springs. If the watertable corresponds to the contact between brown, oxidized till and underlying gray, unoxidized till, as believe it does, then the flow gradient in the upper 40+feet of the till is very low. less than 1 foot vertical to 10 horizontal, on the site. The gully on the east tide of the site has cut down below the water table and meager seeps along it indicate roundwater movement from the upland areas of the site eastward toward the gully.

A spring in the valley leading south of T-1 and T-2 has been mentioned by Skip ackel (Sp?), the I.W.D. landfill supervisor, which indicates groundwater movement to the south as well as east.

Plow directions in the deeper aquifers are unknown but it would be reasonable expect them to be toward Chapman Creek also.

These observations are based on the limited data in hand. Where more detailed more specific information are required it may be necessary to spend more time in the field. If piezometric maps are required it would be useful to have the people appropriate the "Hydrogeologic Characteristics of Proposed Waste Disposal Facilities" appr spell out very precisely just what kind of data are acceptable for purposes of metructing such a map.

I hope these comments are useful. If they need to be restated in a more formal for-

Regards.

Harlan H. Roepke Geologist 44

- TO: Thomas J. Whittman, President Systems Technology Corporation Dayton, Ohio
- FROM: Harlan H. Roepke, Geologist 4504 University Avenue West Muncie, Indiana

REPORT OF BOREHOLE INVESTIGATIONS, I.W.D. CORP. WASTE DISPOSAL SITE. CLARK COUNTY, OHIO 12 January 1976

Purpose of investigations: The investigations reported here were undertaken to supplement the investigations reported earlier (28 December 1975), on the suitability of the site for burial of certain industrial wastes.

Location: See map, Figure 1.

Topography: See site map. Figure 2.

Method of investigation: Bore holes 6 inches in diameter were drilled to a depth of 40.5 feet with a truck-mounted, continuous-flight auger owned and operated by Bowser and Morner Testing Laboratories, Toledo and Dayton. Samples were taken by split-spoon samplers driven, according to standard penetration test specifications, inside the hollow core of the auger.

Observations: The strata observed in the boreholes are recorded on the attached Drilling Logs. The sequence of brown oxidized glacial till, about 10 feet thick. overlying gray unoxidized glacial till which was found in the four back-hoe trenches described in the earlier report, holds true in a general way for the boreholes as well. In the boreholes, however, sand beds of relatively high permiability were recognized in two distinct depth zones.

Borehole #5 shows muddy coarse sand between 5 and 12 feet. At BH-3 an interval of brown medium sand lies between 8 and 10 feet depth. The brown sandy loam between 7 and 11 feet in BH-1 (which lies midway between BH-3 and BH-5) may be related to both of these.

Similarly, the lower gray till contains intervals of sand at 30-31 feet in BH-2, 28.5-34 feet in BH-4, and a 3 inch bed at about 40 feet in BH-5. This last is overlain by about 13 feet of dark brown silt loam.

Laboratory analyses: Three samples, taken during the preliminary investigations from Trenches T-3 and T-4, were analyzed for their particle size distribution. The results, figure 3, show that the upper and lower till samples from T-4 have similar particle size distributions; about 20% clay, 30-40% silt, 40-30% sand, and less than 10% gravel. The sample of upper till from T-3 shows 28% clay, 50% silt, 20% sand, and 2% gravel. While too few to define the range of sediment types present. these samples indicate that the till is well graded and contains significant amounts of clay minerals.

Interpretation: Cuttings and samples from the boreholes indicate the presence of a darker, slightly coarses till below 31' (elevation 1076') in BH-2, and below 25' (Elev. 1074') in BH-3. This is separated from the overlying grey till by a foot of sand at BH-2 and a possible sand layer at BH-3. At BH-4 brown sand occurs at 1069-1072*. And at BH-5 brown silt leam in the interval 1064-1076* elevation, with a thin sand bed at its base. The inference of these data is that a permiable sand and/or moderately slowly permiable silt loam lies in this elevation range, with the sand occupying a NW-SE trending zone that may extend to the flanks of the southeast-flowing gully near the southeast corner of the area studied.

A shallower sand bed about 3' thick occurs in BH-3,1089-1092' elevation; a sandy loam interval was found at about the same elevations, 1090-1094', in BH-1; and 7' of sand lies at 1091-1098' in BH-5. The absence of similar beds in BH-2 and BH-4 seems to constrain the sand to a NE-SW trend, thickening toward the SW.

Neither the lateral limits nor, for that matter, the continuity between boreholes for either of the two sandy zones can be determined from the data in hand. Both could potentially carry leachate toward surface seeps, springs, or gullies if they became contaminated.

Recommendations: Initial trenching might best be started in the northwest part of the area, in the general vicinity of BH-2 and T-4, where shallow sand beds were not observed. Successive trenches might be prepared farther southeast, perhaps eventually as far as BH-4, but the thick sand at 5 to 12 feet in BH-5 is good reason to approach the SW part of the area with extreme caution. As excavation progresses care must be taken to seal off with compacted earth any occurrences of the shallow sand bed that might be exposed.

If excavations go no lower than an elevation of about 1085', there is little likelyhood of contaminating the lower sand, or any surface springs or wells that might intersect that sand.

Harlan H. Roepke, Geologist

James A. Rhodes Governor Ned E. Williams, P.E. Director

	Inter-Office Communication
to	Abduhl Rashidi, Southwest District Office
from	Bob Brown, Office of Land Pollution Control, CO
date	11/9/76
subject:	The IWD Chemical Waste Landfill

As you will recall in my IOC of June 25, 1976 and during our meeting of July 12, 1976 with Jack Wright and Mel Eiffert, I suggested that a more precise definition be included in the plans for the IWD Chemical Waste Landfill for the wastes which would be received. Because of a breakdown in communications with Jack Wright this detail was not taken care of but no damage was done since we approve each individual waste received at the landfill. In this IOC I would like to state the position of the central office regarding the general types of wastes which should be accepted at IWD's Chemical Waste Landfill.

Director Williams has approved the general content of the criteria for hazardous waste landfills in my June 26, 1976 draft policy statement. In particular he urged us not to reduce the requirements. Therefore, the permeability limit of less than 10⁻⁷ cm/sec will be cutoff for sites which are to receive hazardous waste. The permeability of the IWD site was from 33 to 70 times greater than 10⁻⁷ cm per sec and it is therefore not suitable for hazardous waste. The definitions of hazardous waste of the June 26 policy statement will be employed for evaluating the waste which IWD would want to landfill. They will only be permitted to receive non-hazardous waste with a few rare exceptions such as the asbestoes waste.

BB/pam

November 30, 1977

Mr. Clyde Hill Analytical Chemist IWD Chemical Disposal Co. 3106 Snyder-Domer Road Springfield, Ohio 45502

Dear Mr. Hill:

We have reviewed your request for the disposal of approximately 40 drums of Phenol Formaldehyde Polyol and 500 drums of polyester xylene resin. These materials are judged to be acceptable for disposal in your chemical land-fill.

Solid Waste Clark County

IWD Chemical Landfij

Re:

The Polyol has small amounts of Phenol, Formaldehyde and Triethylamine. The acceptance of the Polyol material should not be interpreted to mean that Phenols, Formaldehyde, Triethylamine, and other substances containing these chemicals have an open approval. New waste materials that contain these chemicals must receive formal approval through our Columbus, Central Office, Hazardous Waste review committee.

Please record the cell used for the disposal of these materials and include it in the monthly reports sent to this office. Thank you again for your cooperation in determining the safe disposal of various industrial wastes.

Sincerely yours,

M. Joe Moore District Sanitarian

MJM:sjs

cc: Clark County Health Department cc: Dan Redman, Joe Speakman, Ohio EPA



Chemical Disposal Co., Inc. of Ohio

3106 Snyder-Domer Road, Springfield, Ohio 45502 • (513) 969-8346

November 18, 1977

Mr. Joe Moore OHIO ENVIRONMENTAL PROTECTION AGENCY Southwest District Office 7 E. Fourth Street Dayton, Ohio 45402

RECEIVED NOV 21 1977 OHIO ENVIRONMENTAL PRCTECTION ACCINCY

Dear Joe:

Koppers Chemical has approximately -500- drums of resin that has set-up. It is a polyester xylene resin containing less than 6% uncombined or free xylene and styrene, has a viscosity of 50,000 to 300,000 centipoise which is greater than the polyol from Inland. The material cannot be poured from the drums; I was able to burn a piece of the resin, it smokes and goes out when flame is removed.

Is this material exceptable or how should it be disposed of?

Sincerely yours,

Clyde Hill, Analytical Chemist IWD Chemical Disposal - Ohio

CEH:mrf





Chemical Disposal Co., Inc. of Ohio

3106 Snyder-Domer Road, Springfield, Ohio 45502 • (513) 969-8346

November 17, 1977

Mr. Joe Moore OHIO ENVIRONMENTAL PROTECTION AGENCY Southwest District Office 7 East Fourth Street Dayton, Ohio 45402

RECEIVED

NOV 1 8 1977

OHIO ENVIFONMENTAL PROTECTION AGENCY SOUTH WEST DISTRICT

Dear Joe:

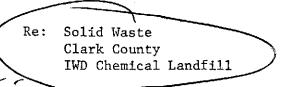
Owens-Corning has approximately -40- drums of Phenol Formaldehyde Polyol that has an outdated shelf life. It contains less than 1% free Phenol, Formaldehyde and Triethylamine, the viscosity is greater than 5,000 centipoise. This is similar to the polyol we are presently putting in the Chemical Landfill now, except it's clear in color. Is this material exceptable or how should it be disposed of?

Sincerely yours,

nRF

Clyde Hill ' Analytical Chemist IWD Chemical Disposal - Ohio

CH:mf



November 8, 1977

Mr. Clyde Hill Chemical Engineer IWD Chemical Disposal Co. 3106 Snyder-Domer Road Springfield, Ohio 45502

Dear Mr. Hill:

We have reviewed your request for the disposal of resorcinol-formoldehydelatex (a textile adhesive) in the IWD Chemical Landfill. This material is judged to be within the resin and latex classification of wastes approved for disposal in your special chemical landfill. The material is not extremely toxic or hazardous and is therefore acceptable for disposal in your chemical landfill.

If you have further questions, please call me at (513) 461-4670.

Sincerely yours,

M. Joe Moore District Sanitarian

MJM:sjs

cc: Clark County Health Departmentcc: Dan Redman, Joe Speakman, Ohio EPA



Chemical Disposal Co., Inc. of Ohio

3106 Snyder-Domer Road, Springfield, Ohio 45502 • (513) 969-8346

REGENCED

October 25. 197777 007 27 FH I IS

Mr. Joe Moore OHIO ENVIRONMENTAL PROTECTION AGENCY Southwest District Office 7 East Fourth Street Dayton, Ohio 45402

onio era souteursterst

Dear Joe:

We would like permission to bury in our Chemical Landfill, a material similar to the laytex we are presently permitted to dispose of.

I am enclosing a copy of Uniroyal's analysis, which compares with ours. I have coagulated samples of the material and it behaves as they said. It will be coagulated and put in drums, they have found a polymer that will do the job without lowering the pH below 7.5. They estimate approximately 40 drums a week. Could you send me a letter of approval or your recommendation for disposal.

Sincerely,

Clipte Hel : MRF

Clyde Hill, Chemical Engineer I.W.D. Chemical Disposal - Ohio

CH:mf

Enclosure



UNIROYAL INDUSTRIAL PRODUCTS Division of UNIROYAL, Inc. P.O. Box L Port Clinton, Ohio 43452

419-635-2191

August 15, 1977

Mr. Clyde Hill IWD Liquid Waste 3106 Snyder-Domer Road Springfield, OH 45502

Dear Mr. Hill:

GNIO EPA SEUTIMIEST PIST

Under separate cover (UPS) we are sending you material representative of our liquid waste. It is basically a latex waste. This material I sent you is actually a sample of the actual resorcinol-formaldehydelatex dip. Our waste material would differ from this in that the waste material which we would send you would typically have only one-half the solid content (10% normally versus 22% for what we sent you). If you dilute this material 1:1 with water you will have material typical of our waste.

This material is a textile adhesive system which is known in the rubber industry as a resorcinol-formaldehyde-latex (RFL) treatment. Our waste consists of this plus water from washing out equipment with which this adhesive comes in contact. It is not explosive. The flammability is quite low because of its high water content. Its low degree of flammability can be illustrated by the fact that in our process fabric saturated with this material is dried in a direct fired (open flame) oven at $300^{\circ}-400^{\circ}$ F. with no problems due to ignition of the treatment.

In addition to the components of this RFL adhesive system, the waste material may contain a small amount of threads of nylon and polyester fabric. Some of this material may contain some dried material which will appear to be a hard dark resin. This is just dried adhesive. When the adhesive dries it becomes hard, brittle, and difficult to re-dissolve.

At times this latex material will coagulate and separate into a water layer and a rubber plus resin layer. This is a normal occurrence for this material and it basically is not a exothermic process (that is there is no appreciable amount of heat given off when this happens). The change is quite noticeable since the material changes from a waterlike material to a material which flows similarly to mayonnaise or catsup. Common things which cause this phenomenon are a pH below about 6.0, freezing, and the presence of inorganic salts (particularly polyvalent inorganic salts). Once this coagulation takes place, it cannot normally be reversed. Coagulated adhesive, depending on the rapidity with which it is dewatered, eventually drys out and forms a resinous material which is difficult to dissolve. It is quite easy to ensure that the adhesive does not coagulate during shipment. This can be done simply by adding more ammonia water.

I have enclosed what I feel will be the range of the composition of our liquid waste together with what I would estimate to be its typical composition. I have listed resorcinol as an ingredient. I personally doubt whether there is any present since it reacts with formaldehyde to form a resin; however, I cannot exclude it from the list since it is conceivable that under some conditions it may be present.

Our procedure for making up the adhesive treatment is as follows: Formaldehyde (37% in water with some methanol) is diluted with water to make solution A which has a formaldehyde content of about 95%. Concentrated (28%) ammonia in water is mixed with Kopper's resorcinolformaldehyde resin (R-2200 which is typically 30% water, 14% free resorcinol, and 56% resorcinol-formaldehyde resins) and water to give a solution (solution B) containing about 2% ammonia and 17% resorcinol and resorcinol resins. Solution A, solution B, Pyratex J-1904 (a latex consisting of 40% styrene-butadiene-vinyl pyridine terpolymer and 60% water plus some soaps and surface-active agents as stabilizers), and water is mixed to give the final adhesive.

I have attempted to describe the properties of this material as fully as possible. I would be happy to answer any questions you might have concerning this waste material.

At present, I would estimate that we would dispose of 1000-2000 gallons qpp^{rok} 40 of this material per week (the actual amount produced is too variable to predict with certainty). We can ship it to you either in bulk or in drums.

We would like you to notify us as soon as possible if you can handle this material, and also when we could start shipping to you. We would also need to have a quote of the cost per gallon of disposing of this waste.

2

Sincerely yours,

Kill

J. KELLGREN Technical Superintendent

JK:lc

1 Incl.

August 16, 1977

Approximate Percentages for the Various Components in our Liquid Waste

	Range	Typical
	78-96	90
Styrene-butadiene-vinyl pyridine terpolymer		
rubber (dry weight) **, ***	3.5-22	· · 8 · · ·
Ammonia (pure gas) *	near 0-0.3	0.2
Resorcinol-formaldehyde resin	0.5-4.5	1.4
Formaldehyde (as pure material)	0-1.8	0.2
Methanol	near 0-1.5	0.3
Soaps and surface-active agents **	near 0-0.6	0.1
Resorcinol	0-0.9	0

* If calculated as the normal concentrated ammonia solution (28% in water) the values would be near 0-1.1 and 0.7% for the range and typical values, respectively.

** From latex.

*** If calculated on the basis of latex used, this is 9-55% and 20% for the range and typical values respectively. The value for the water is now reduced to 90-45% and 78% for the range and typical values, respectively. The latex is typically 40% by weight of dry rubber and 60% by weight of water.

pH for uncoagulated waste is 8-10 (lower values are possible but the limitation is pH 5.5-6.0 where the latex coagulates).

	Inter-Office Communica		CLIDEPA
to	Robert Brown		<u> </u>
from	Robert Brown M. Joe Moore & M	-1/0:) old Wiste
date	June 22, 1977	"he	Clark Co

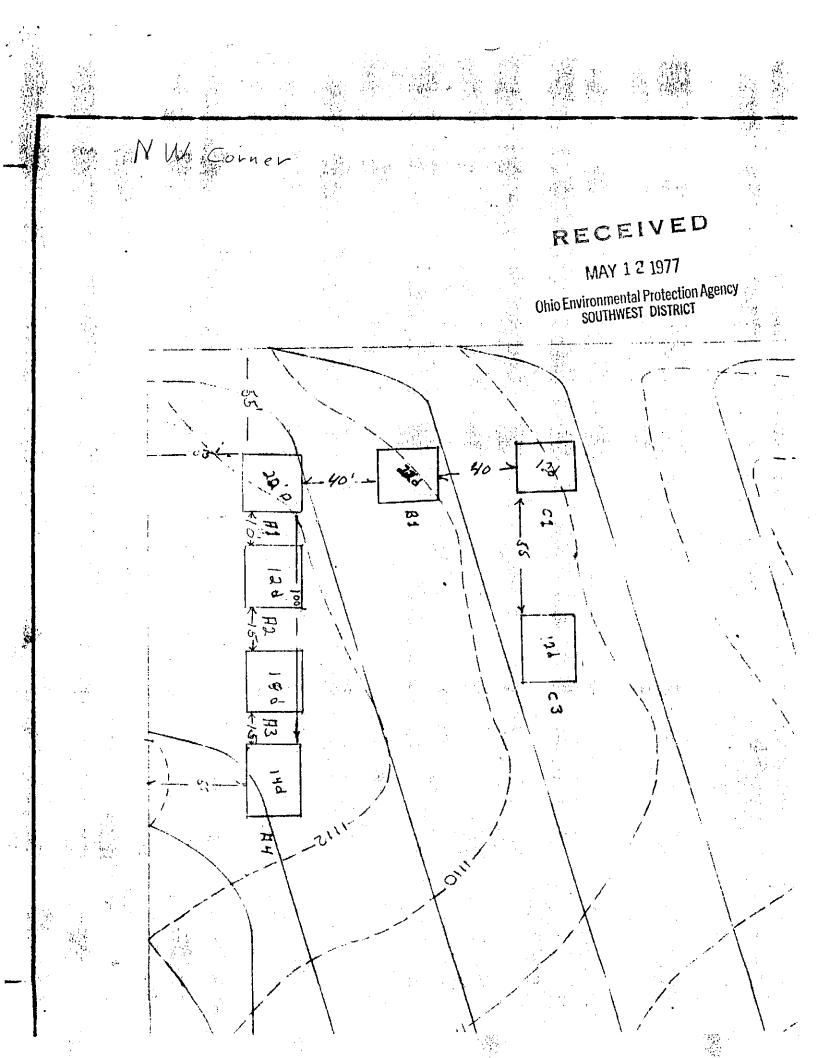
Thank you for the list of waste classes approved for disposal at this special landfill.

I have reviewed Mr. Wright's monthly reports of materials disposed on the site. They are in agreement except for one item - W0056 Systech -Still Bottoms 120 cu yds. This material was disposed bulk in Cell B-2. What is the status of this material? Is it acceptable for disposal in the chemical landfill? Please contact Mr. Wright directly if you need further specific information about the waste - (513) 969-8346.

m]k

James A. Rhodes Governor Ned E. Williams Director

100% Recycled Peper



ATTACHMENT 3

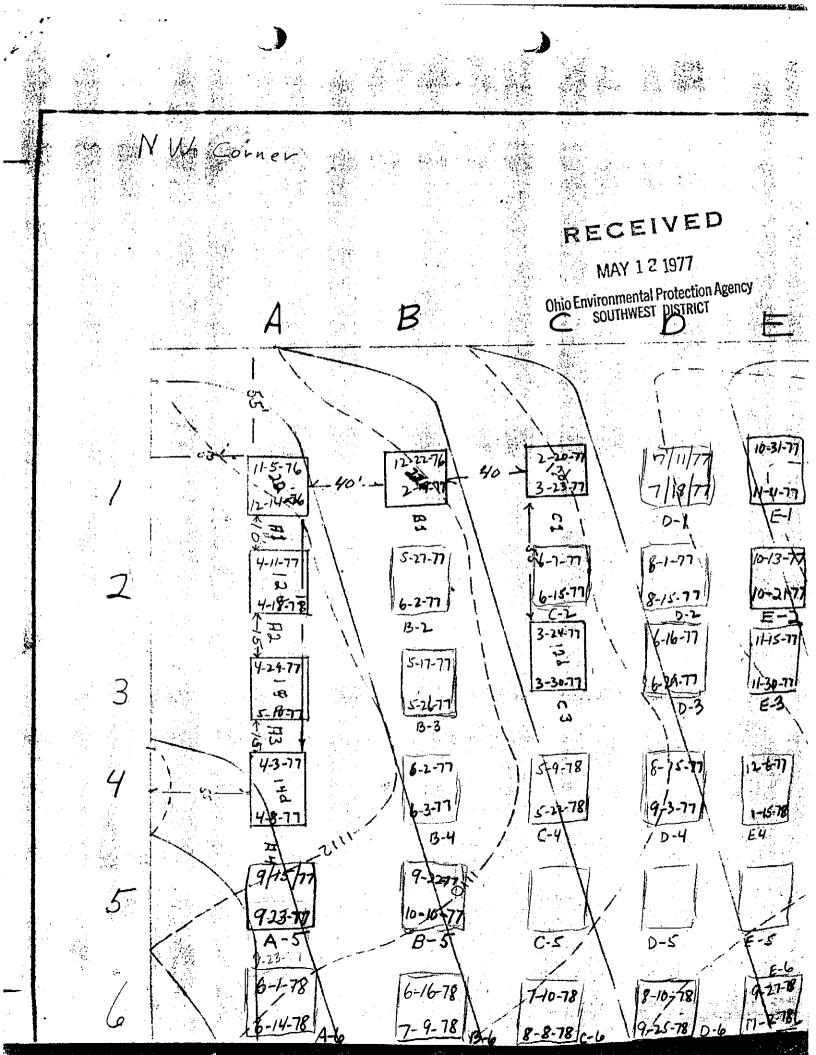
TYPES OF WASTE

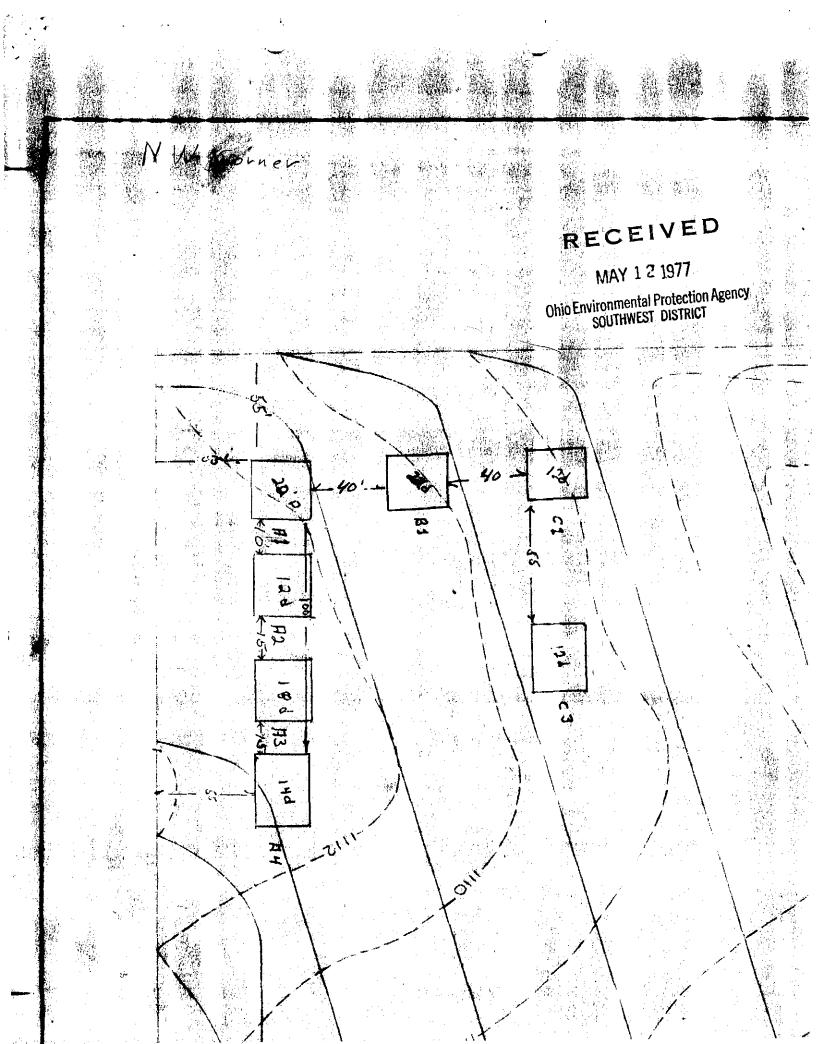
An estimate of the amount of waste liquid to be landfilled on a monthly basis are the following:

- GROUP 1 Encapsulated Metal Sludges
 - Approximately 10,000 gal/month
 Residual sludges resulting from the pretreatment required from the proper disposal of industrial solutions such as plating solutions, acids, and precipitated salts resulting from the removal of pollutants from these solutions.
- GROUP 2 Bulk Asbestos And Water
 - Approximately 20,000 gal/month
 - Asbestos obtained from air cleaning systems mixed with water for safety and handling purposes.

- Polyol

- Approximately 6,000 gal/month
- A high viscous (molasses) long chain polyfunctional alcohol produced as a by-product in the manufacture of urethane foams.
- GROUP 3 Encapsulated Paint Sludges
 - Approximately 25,000 gal/month
 - Encapsulated glues and adhesives
 Approximately 35,000 gal/month
 - Above materials are sludges derived from the use and manufacture of paints and coatings, glues, and adhesives. Typically they will include waste paints, adhesives, and inks; paint spray booth skimmings; surplus unusable paint, glues and adhesives; and sludges from the reclamation of solutions used in the application and manufacture of paints, inks, glues, and adhesives.





" Clas TWD Che ad Loudfill, Clark	Lou n t	
ChieEPA Inter-Office Commun	ication	
TO: Joe Moore, Southwest District Office	DATE: _	May 12, 1977
FROM: Bob Brown, Office of Land Pollution Control, CO		
SUBJECT: Disposal of paint sludge and diatomaceous earth by	y Systech	

1 N . 1

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I received a letter from Bob Reitz (Systech Corporation), requesting permission to dispose of oil base paint sludge and diatomaceous earth, vegetable oil sludge at the IWD Chemical Waste landfill. Bob Reitz also visited my office to discuss the problem.

The diatomaceous earth sludge is divided into two batches. One is simply diatomaceous earth used by P & G to filter soybean oil. The second batch is the same except for contamination with some metal oxide sludge. The analysis Bob Reitz supplied to me shows that the heavy metal is relatively low. The sludge is presently in holding tanks under water which Bob Reitz states is necessary to hold down severe odors. In my opinion, this sludge could go to any well managed landfill in a good geologic location provided the excess water is drained from the sludge. Bob Reitz stated that they can drain this water easily. The sample Bob Reitz showed me was a stiff solid under a water layer. I would like for you to check this sludge after it is drained and prior to transport to IWD's site. Bob Reitz also mentioned that they may take this sludge to the CER landfill. The metal contaminated sludge would go in the hazardous waste section since this is CER's preference. The remainder could go to the conventional portion of CER.

The oil base paint sludge is more of a problem. The pigment and metal content are not hazardous but the solvent could present a fire hazard and leachate hazard. Bob Reitz assures me that most of this material is dried in the storage drums and is a solid or a jell. Reitz proposes to remove the solid and jell material from drums and take it to IWD as a solid waste. This should be acceptable since the solvent will have evaporated if the material is a solid or jell. I requested that Bob set aside the drums which contain more fluid material. These drums would be handled when a long range solution is developed for the disposal of the approximately 10 cu. yds. of this material which is generated every two weeks. Thus, we must make it clear to Jack Wright of IWD that OEPA has only approved the portion of Systech's paint sludge waste which is a jell or solid.

As a long term solution I suggested that this paint sludge waste be handled in bulk form and spread on a well managed conventional landfill. Hopefully this would result in metabolism of the small amount of solvent in the waste by the landfill organism. However, Dan Redman felt that this waste is a significant fire hazard in the conventional landfill. Dan recommends that Systech incinerate the waste prior to disposal. These points will have to be evaluated more carefully when Systech comes back to us requesting approval of their long term disposal plan.

REB/pam

Colled Jack Wright 5/20/119 on to him. 5/20/119 information on to him. Passed this information

- Call Joe Morie



specialists in environmental technology SYSTEMS TECHNOLOGY CORPORATION

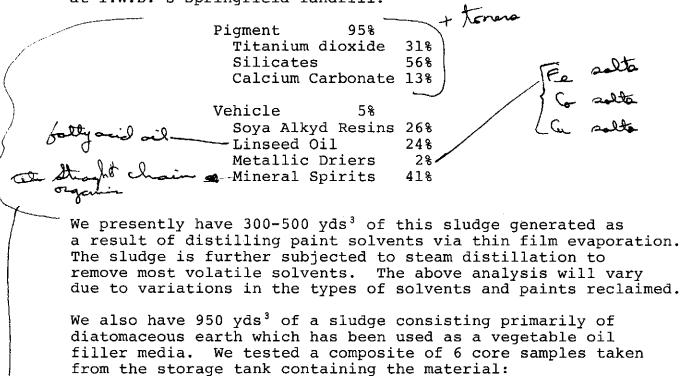
> 245 North Valley Road Xenia, Ohio 45385 Area Code 513/372-8077

Mr. Bob Brown Ohio EPA Office of Land Pollution Control P.O. Box 1049 Columbus, Ohio 43216

Dear Mr. Brown:

10 May 1977

Per our phone conversation of 9 May 1977, we would like to request your permission to dispose of the following sludges at I.W.D.'s Springfield landfill:



~ 10 yds per two weeks. Material on hand is langely solids It would be a removed from drume and handled in bulk.

A Subsidiary of Systems Research Laboratories, Inc.

Solids (wt). Fe* (total)	49.6% 108 mg/1
Cr* (total)	223 mg/l
Cr ⁺⁶	-0-
Cd**	25 mg/l
Zn**	98 mg/l
Pb**	42 mg/l
Ni**	5 mg/l

*Present as M(OH)₃ **Present as M(OH)₂

We do not anticipate generating this material again.

We would appreciate a speedy reply on this matter.

Sincerely,

SYSTECH WASTE TREATMENT CENTERS

Paket 1

Robert D. Reitz 3 Technical Representative

RDR/hbs

Re: IWD Chemical Landfill Clark County - German Twp. Solid Waste

April 25, 1977

Mr. George Degenhart 3035 Columbus Avenue Springfield, Ohio 45503

Dear Mr. Degenhart:

Enclosed please find the information that you requested per our telephone conversation.

According to my telephone discussion with Bob Brown on April 25, 1977, no new substances have been approved for disposal at this site since the original plan approval.

Should you have any questions or comments, please feel free to contact this office.

Sincerely,

ain Mr. Brankle

Gary M. Bramble, P.E. Industrial Wastewater Group

GMB/sjg

Enclosures

James A. Rhodes, Governor Ned E. Williams, P.E., Director

April 4, 1977

Industrial Waste, 3112 Snyder Domer Road, Tremont City, Chio

Mr. Menda:

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Find enclosed the inspection report of the Landfill facility, located at 3112 Snyder Domer Road, Clark County, Springfield, Ohio.

This is not a letter of reprimend, but to caution you against bad operating procedures and if not corrected grave problems could arise.

Your co-operation would be appreciated in correcting these violations.

Sincerely, Mrs. Mary Mitch, R. N., Acting Health Commissioner

Howard Leist, Sanitarian HL/mmc



I.W.D. LIQUID WASTE, INC.

3975 Wagoner Ford Rd. P. O. Box 1458 Dayton, Ohio 45414 (513) 278-0821 701 Thrasher St. Springfield, Ohio 45503 (513) 323-9382

177 JEH 24 101 8 27

Joe Here is a copy of the data Sheet We have the new customers fill out on New waste material, as per our discussion on the 18 Jun 77. Additions comments on this form Will be appreciated.

Thanks Again Clyde Will

Attachment 4

Clyde E Hill, Jr.

RESA v. Waste Management, Inc., et al.

Page 1 IN THE UNITED STATES DISTRICT COURT 1 FOR THE SOUTHERN DISTRICT OF OHIO 2 3 * * * RESA, 4 Plaintiff, 5 CASE NO. 1:04-CV-013 6 vs. 7 WASTE MANAGEMENT, INC., 8 et al., 9 Defendants. 10 + 11 Deposition of CLYDE E. HILL, JR., Witness herein, called by the Plaintiff for 12 13 cross-examination pursuant to the Rules of Civil 14 Procedure, taken before me, Mary Jo Stevens, a 15 Notary Public in and for the State of Ohio, at 16 Thompson Hine, 2000 Courthouse Plaza, 10 West 17 Second Street, Dayton, Ohio, on Friday, the 16th 18 day of December, 2005, at 1:21 p.m. 19 20 21 22 23 24 25

1 EXAMINATIONS CONDUCTED PAGE 1 CLYDE E. HILL, JR. 2 BY MS. WOLFE: 4 of lawful age, Witness herein, having been first 3 BY MS. WOLFE: 149 of lawful age, Witness herein, having been first 4 BY MS. WOLFE: 149 of lawful age, Witness herein, having been first 5 CROSS-EXAMINATION BY MS. WOLFE: CROSS-EXAMINATION 6 EXHIBITS MARKED 6 BY MS. WOLFE: CROSS-EXAMINATION 6 EXHIBITS MARKED 6 BY MS. WOLFE: Q. Would you please state your full 7 (Thereupon, Plaintiff's Exhibit 1 27 7 Q. Would you please state your full 11 was marked for purposes of 11 12 before. I'm the atomey for the plaintiff in 13 (Thereupon, Plaintiff's Exhibit 4 55 16 Q. Did you receive a subpoena telling 16 (Thereupon, Plaintiff's Exhibit 5 55 16 You to be here today? 1 see you're youlling it 18 identification.)							Page 4
2 BY MS. WOLFE:	1	FXAMINATIONS CONDUCTED			1	CLYDE E. HTUL, 1R.	Page 4
3 BY MR. BROWN:						•	
4 BY MS, WOLFE: 149 4 certified, was examined and said as follows: CROSS-EXAMINATION 5 EXHIBITS MARKED 5 CROSS-EXAMINATION 6 EXHIBITS MARKED 6 BY MS. WOLFE: 7 7 (Thereupon, Plaintiffs Exhibit 2 39 0 . Would you please state your full ame for the record and spell your last name? 9 identification, 10 Q. Good afternoon, Mr. Hill. My name 11 identification, 11 is Leslie Wolfe and you and I had spoken 12 identification, 11 is Leslie Wolfe and you and I had spoken 12 identification, 11 is Leslie Wolfe and you and that you're 14 was marked for purposes of 11 is loantiffs Exhibit 5 15 16 (Thereupon, Plaintiffs Exhibit 5 55 16 Q. So you did receive the subpoena? 11 identification, 7 20 Q. And you receive the subpoena? 11 identification, 7 22 Q. And you receive the subpoena? 21 APPEADANCES: 7 Q. So you did receive the subpoena? 24 identififeation, 24<					_		
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6 EXHIBITS MARKED 6 BY MS. WOLFE: Q. Would you please state your full 7 (Thereupon, Plaintiff's Exhibit 1 27 7 Q. Would you please state your full 9 identification.)					•		
7 (Thereupon, Plaintiff's Exhibit 1 27 7 Q. Would you please state your full 8 was marked for purposes of 9 A. Clyde Ewing Hill, Jr., H I L L 10 (Thereupon, Plaintiff's Exhibit 2 39 10 Q. Good aftermoon, Mr. Hill. My name 12 identification.)		EXHIBITS MARKED			_		
8 was marked for purposes of 9 A. Clyde Ewing Hill, Jr., H I L L. 9 (Thereupon, Plaintiff's Exhibit 2 39 10 Q. Good afternoon, Mr. Hill. My name 11 was marked for purposes of 11 is Leslie Wolfe and you and I had spoken 12 identification.)			27		-		
9 A. Clyde Ewnon, Maintiffs Exhibit 2 39 10 (Thereupon, Plaintiffs Exhibit 2 39 11 (addition)				l			
10 (Thereupon, Plaintiff's Exhibit 2 39 10 Q. Good afternoon, Mr. Hill. My name 11 was marked for purposes of 11 is Leslie Wolfe and you and I had spoken 13 (Thereupon, Plaintiff's Exhibit 3 53 13 this case and do you understand that you're 14 was marked for purposes of 13 this case and do you understand that you're 14 was marked for purposes of 14 here for a deposition today? 15 A. Yes. 16 Q. Did you receive a subpoena telling 17 was marked for purposes of 10 Q. So you did receive the subpoena? 18 identification.)							
11 was marked for purposes of 11 is Leslie Wolfe and you and I had spoken 12 identification.)			39				
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14 was marked for purposes of identification.)			53				
15 identification.)							
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18 identification.)		· · ·	00				
19 (Thereupon, Plaintiff's Exhibit 5 65 20 was marked for purposes of 20 Q. So you did receive the subpoena? 21 identification.) 21 A. Yes. 22 (Thereupon, Plaintiff's Exhibit 6 74 22 Q. And you received the check with 23 was marked for purposes of 21 A. Yes. 22 Q. And you received the check with 24 identification.) 23 that? 24 A. Yes. 25 20 D. And thank you for coming today. 24 A. Yes. 25 20 And thank you for coming today. 24 A. Yes. 26 On behalf of the Plaintiff: 24 A. Yes. 25 20 3 Mater & Haverfield LP 3 that you did in the late '70s at the remont 4 1andfill Superfund site in Clark County? 4 By: Lesile G. Wolfe 3 that you did in the late '70s. 4 I ade '70s. 7 On behalf of the Defendant Waste Management, 1 10 left and went to Greene Memorial Hospital. 10 left and went to Greene Memorial Hospital. 9 A. No. It was May of '75 is when							
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21 identification.) 21 A. Yes. 22 Q. And you received the check with 23 was marked for purposes of 23 24 identification.) 23 that? 25 25 Q. And you received the check with 26 20 And thank you for coming today. 26 20 And thank you for coming today. 27 On behalf of the Plaintiff: 24 3 Waker & Haveffield LLP 25 4 By: Leslie G. Wolfe 3 Attorney at Law 130 tast Ninth Street 5 5 The Tower at Eriview 5 A. I guess. I wasn't there in the 10 Stict 3500 6 late '70s. 7 Q. You were not there in the late 7 9 Tucker Ellis & West LLP 9 A. No. It was May of '75 is when I 10 By: Courtenay Y. Jalics 11 Q. You were not there from any 11 1150 Huntington Building 12 12 92 Caveland, Ohio 44115-1475 13 the site? 13 Dhealf of the Defendant Sys			00				
22(Thereupon, Plaintiff's Exhibit 67422Q. And you received the check with23was marked for purposes of24that?24A. Yes.25Q. And thank you for coming today.2526Q. And thank you for coming today.260n behaff of the Plaintiff:263Walter & Haverfield LLP274By: Lesle G. Wolfe34By: Lesle G. Wolfe34By: Lesle G. Wolfe45The Tower at Ereview310Bast Nith Street56Suite 35007Cleveland, Ohio 44114-18217On behaff of the Defendant Waste Management,8'Tocker Ellis & West LLP10By: Courtenay Y, Jalkics4Frost Brown Todd LLC13On behaff of the Defendant Systech:14Frost Brown Todd LLC15By: Brown161300 North Main Street17Middletown, Ohio 45042-191918300							
23 was marked for purposes of 23 that? 24 identification.) 24 A. Yes. 25 Q. And thank you for coming today. 26 On behalf of the Plaintiff: 24 A. Yes. 25 Q. And thank you for coming today. 1 APPEARANCES: 1 Are you do you understand that you're here 2 On behalf of the Plaintiff: 4 Inc. 5 3 Watter & Haverifel LLP 4 Iandfill Superfund site in Clark County? 5 The Tower at Ereview 5 A. I guess. I wasn't there in the 6 Suite 3500 6 Iate '70s. 7 On behalf of the Defendant Waste Management, 7 Q. You were not there in the late 8 Inc.: 9 A. No. It was May of '75 is when I 9 Tucker Elis & West LLP 9 A. No. It was May of '75 is when I 10 By: Courtenay '1, Jaiks 11 12 Cleveland, Ohio 44115-1475 13 On behalf of the Defendant Systech: 14 A. Yes, they were yeah, they had 14 Frost Brown Todd LLC 15 had, what,			74				
24 identification.) 24 A. Yes. 25 Q. And thank you for coming today. 25 Q. And thank you for coming today. 26 On behalf of the Plaintiff: 3 Water & Haverfield LLP 4 By: Lesie G. Wofe Attorney at Law 1 5 The Tower at Erieview 1301 East Ninth Street 5 6 Suite 3500 Cleveland, Ohio 44114-1821 7 On behalf of the Defendant Waste Management, 8 Inc.: 9 Tucker Elis & West LLP 10 By: Courtenay Y, Jalics Attorney at Law 11 11 150 Huntington Building 925 Euclid Avenue 11 12 Cleveland, Ohio 44115-1475 13 On behalf of the Defendant Systech: 14 Frost Brown Todd LLC 15 By: Daniel A. Brown Attorney at Law 16 16 300 North Main Street 5 Suite 200 17 Middletown, Ohio 45042-1919 18			,,				
25 25 Q. And thank you for coming today. 1 APPEARANCES: Page 3 2 On behalf of the Plaintiff: For a deposition in connection with the work 3 Water & Haverfield LLP 1 4 By: Leslie G. Wolfe 3 Attorney at Law 5 The Tower at Erieview 101 East Ninth Street 6 6 Suite 3500 Cleveland, Ohio 44114-1821 7 On behalf of the Defendant Waste Management, 7 9 Tucker Ellis & West LLP 5 10 By: Courtenay Y. Jalics 7 Attorney at Law 11 0. You were not there in the late 11 Tis By: Courtenay Y. Jalics 7 11 Attorney at Law 11 12 Cleveland, Ohio 44115-1475 10 13 On behalf of the Defendant Systech: 11 14 Frost Brown Todd LLC 14 15 By: Daniel A. Brown 15 Attorney at Law 16 300 North Main Street 16 300 North Main Street 14 18 Q. So what year do you think							
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	18	* * *					
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2223started doing it. They had enough drums on2324hand to start doing something with. They were							`
24 Traine to start doing something with. They were 25 held up for permits for quite a while.							-
	25				[the option pointer for quice a miller	

Mike Mobley Reporting 937-222-2259 2 (Pages 2 to 5)

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		Page 6	4	Page 8
	Q. Well, we're going to talk about		1	coffee and water available in the room for you
2	that a little bit more, but first before we get		2	to help yourself to at any time.
3	started I'm just going to go through a few		3	A. Okay.
4	preliminary matters. Have you ever had your		4	Q. Did you review any documents to
5	deposition taken before?		5	prepare for your deposition today?
6	A. On this?		6	A. No.
7	Q. On anything.		7	Q. Did you talk to anyone to prepare
8	A. Yes.		8	for your deposition today?
9	Q. What was that in connection to?		9	A. Just you.
10	A. It was an injury at Greene		10	Q. Are you represented by counsel
11	Memorial Hospital. One of the employees got		11	today?
12	shot and he worked in the hospital and so they		12	
13				
	were finding out what he did and if he knew		13	opportunity for that, but
14	anybody that disliked him or anything at the		14	Q. Right. I said that you had an
15	hospital.		15	opportunity for that and I think I probably
16	Q. How long ago was that?		16	told you that the attorney representing Waste
17	A. It was about '78.		17	Management which is a primary defendant in this
18	Q. So that was quite a while ago?		18	case, Waste Management and Chemical Waste
19	A. Yes.		19	Management, was representing some of the former
20	Q. Well, the rules that applied to		20	IWD employees but I wasn't sure which ones and
21	that deposition are probably the same rules		21	as it turns out I think that they based on
22	that apply now, but I'm going to go over them		22	the dates of your employment that they
23	to make sure that we are on the same page.		23	determined that they would not offer
24	Most important thing is to give me verbal		24	representation to you. If Miss Jalics wants to
25	responses to the questions and that way the		25	say anything further about that, she can do so.
25			25	
		Page 7		Page 9
1	court reporter can take down your answers	Page 7		Page 9 A They hadn't bought the company at
1	court reporter can take down your answers.	Page 7	1	A. They hadn't bought the company at
2	A. She can't see me nodding my head.	Page 7	2	A. They hadn't bought the company at that time. They were negotiating when I left.
2 3	A. She can't see me nodding my head. Hear that.	Page 7	2 3	A. They hadn't bought the company at that time. They were negotiating when I left.Q. And you represented to me that you
2 3 4	A. She can't see me nodding my head.Hear that.Q. Right, she can't see you nodding	Page 7	2 3 4	 A. They hadn't bought the company at that time. They were negotiating when I left. Q. And you represented to me that you were never employed by Waste Management, Inc.
2 3 4 5	 A. She can't see me nodding my head. Hear that. Q. Right, she can't see you nodding your head and it will also make it easier for 	Page 7	2 3 4 5	 A. They hadn't bought the company at that time. They were negotiating when I left. Q. And you represented to me that you were never employed by Waste Management, Inc. or Chemical Waste Management, Inc.?
2 3 4 5 6	 A. She can't see me nodding my head. Hear that. Q. Right, she can't see you nodding your head and it will also make it easier for the court reporter if you wait until I ask the 	Page 7	2 3 4 5 6	 A. They hadn't bought the company at that time. They were negotiating when I left. Q. And you represented to me that you were never employed by Waste Management, Inc. or Chemical Waste Management, Inc.? A. No, just IWD, Industrial Liquid
2 3 4 5 6 7	 A. She can't see me nodding my head. Hear that. Q. Right, she can't see you nodding your head and it will also make it easier for the court reporter if you wait until I ask the question before you give an answer and I'll 	-	2 3 4 5 6 7	 A. They hadn't bought the company at that time. They were negotiating when I left. Q. And you represented to me that you were never employed by Waste Management, Inc. or Chemical Waste Management, Inc.? A. No, just IWD, Industrial Liquid Waste or Liquid Waste.
2 3 4 5 6 7 8	 A. She can't see me nodding my head. Hear that. Q. Right, she can't see you nodding your head and it will also make it easier for the court reporter if you wait until I ask the question before you give an answer and I'll wait for you to give a complete answer before I 	-	2 3 4 5 6 7 8	 A. They hadn't bought the company at that time. They were negotiating when I left. Q. And you represented to me that you were never employed by Waste Management, Inc. or Chemical Waste Management, Inc.? A. No, just IWD, Industrial Liquid Waste or Liquid Waste. MS. JALICS: And as far as I know,
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3 (Pages 6 to 9)

4 (Pages 10 to 13)

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	Page	0	Page 12
1	A. No, I don't.	1	Q. What years were you in the Air
2	Q. Who do you live with?	2	Force?
3	A. My wife.	3	A. From April of '62 to June of '67.
4	Q. And, Mr. Hill, what is your date	4	Q. Where were you stationed?
5	of birth?	5	A. First was Lackland and then I went
6	A. It's 5 August of '39.	6	to tech school at Keesler. Then I went to
7	Q. Where did you go to high school,	7	Iwakuni, Japan and then was transferred to Fuji
8	Mr. Hill?	8	Air Base in Japan. Then I came back to Offutt
9	A. I went to Central High School in	9	•
10		1 -	Air Force Base, got my final semester TDY where
	Oklahoma City, Oklahoma.	10	the Air Force sent me back to get my last
11	Q. Did you go to college after that?	11	semester of college in Oklahoma City at Edmund
12	A. Yes, I did.	12	and then went back to Offutt and then was
13	Q. And did you graduate from high	13	assigned six months in Vietnam, came back to
14	school?	14	Offutt and was discharged there.
15	A. Yes.	15	Q. So you were discharged in June of
16	Q. Where did you go to college?	16	'67?
17	A. I started at Central State	17	A. Right.
18	University and when I graduated it was the	18	Q. And at that point you had received
19	well, it was Central State College and when I	19	your undergraduate degree?
20	graduated it was University of Central	20	A. Yes.
21	Oklahoma.	21	Q. And what did you do at that time
22	Q. What year did you graduate?	22	when you were discharged, what did you do next?
23	A. 1965.	23	A. I went to work for Systems
24	Q. Did you go on to postgraduate	23	
25	school?	25	5 1
25	SCHOOL	25	electronic engineer. But yeah. No, wait.
	D		D
1	Page		Page 13
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2	A. I did some, let's see, courses at Wright State.	1 2	I was I started at SRL. We had a one year contract doing neutron activation analysis out
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1	working for Systech in the late '70s and	1	Liquid Waste, had that company just come into	
2	working for Systems Research Lab in the late	2	existence or had it been around for a while?	
3	'60s when you worked for IWD? When did you	3	A. IWD Liquid Waste was probably	
4	work for IWD?	4	three or four months old and they were bringing	
5	A. About it was about '73 to April	5	waste to Systech down at the Franklin, Ohio	
6	of '75, best that I remember.	6	plant and Jack Wright well, when they were	
7	Q. And where	7	bringing their waste in, he was just getting	
8	•	8	started picking up, mostly oil/water waste and	
	A. There was five years at Isotech	-		
9	I don't mean Isotech. I mean SRL.	9	stuff and was coming in and dumping it there	
10	Q. Five years total at Systems	10	and he told me that they had plans and that	
11	Research?	11	they would like for me to consider coming to	
12	A. Right. And when the government	12	work for them.	
13	contracts quit, then I shifted over and went to	13	Q. And those plans were related to	
14	work at Systech for about a year and a half, I	14	the Tremont operation?	
15	guess.	15	A. Yeah, Tremont where they were	
16	Q. And then after that year and a	16	going to expand and start treating more things,	
17	half, where did you go?	17	disposing of more waste.	
18	A. To IWD Liquid Waste.	18	Q. Were you involved in any of the	
19	Q. And you're fairly sure that that	19	permit application processes for the Tremont	
20	was about 1973 when you started at IWD?	20	barrelfill?	
21	A. '73, '74, around there. They were	21	A. No, other than asking you know,	
22		22	they would ask me what I thought of the plan	
	on Lagonda, the plant over just off of Lagonda			
23	is where I first started until they had moved	23	and it looked like the same, like it was legal,	
24	to Tremont. Whatever date they moved up there	24	what they wanted to do.	
25	is	25	Q. What aspects of the plan did they	
_				-
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	Page 15		· Page	e 17
1	Q. So what was the actual company	1	consult with you on?	e 17
2	Q. So what was the actual company name that hired you when you worked at Lagonda	2	consult with you on? A. What tests they would need to do	e 17
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Mike Mobley Reporting 937-222-2259

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1	Q. When you refer to the plant, what	1	moved from Lagonda to Tremont? You said they
2	plant are you talking about?	2	were doing the oil separation process at the
3	A. The one on Tremont. They had a	3	Lagonda site?
4	plant that they would a garage for the	4	A. Right.
5	trucks and oil/water separation and bulk	5	Q. And then they transferred all of
6	storage tanks set up to handle the large	6	that equipment and the facility over to the
7	volumes of liquid waste and they processed the	7	Tremont site?
8	oil/water waste where it split the oil out and	8	A. Right.
9	recovered that to make cold spray and treat the	9	Q. So can you estimate about the time
10	water. The only problem they wound up with was	10	that that move to Tremont happened? Was it
11	the water was loaded with a lot of organics	11	about six to eight months after you started you
12	that wouldn't come out of it that were	12	said; is that correct?
13	biodegradable so if you didn't treat it it	13	A. Yes. Probably in they built
14	would smell and they were still having to	14	the garage and were storing the trucks out
15	dispose of that.	15	there, the vacuum trucks and you know, the
16	Q. Were they chlorinated organics?	16	vacuum trucks, and then they had some tank
17	A. No. Chlorinated organics wouldn't	17	trucks that were vacuum trucks that they
18	dissolve, I mean, they won't biodegrade very	18	usually moved waste or vacuum so that you could
19	good.	19	pump drums or tanks or whatever and put it in
20	-	20	the six thousand gallon trailer where you can
21	Q. When did that oil/water separation	20	haul it.
22	process begin at the Tremont site, if you know? A. It was within three or four months	22	
22			The waste is not dean and they
	after they moved everything up there from the	23	throw rags and stuff and the suction will
24 25	Lagonda site. It was being done over off of	24	usually pull just about everything. It's like
25	Lagonda. There's a side street where the	25	a vacuum cleaner, it will suck everything out
			Dec. 21
	Page 19	Γ.	Page 21
1	hardware store is where they were doing the	1	of there and then you have to figure out how to
2	hardware store is where they were doing the oil/water separations and then they moved that	2	of there and then you have to figure out how to get the sludge out of your truck later.
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6 (Pages 18 to 21)

RESA v. Waste Management, Inc., et al.

7 (Pages 22 to 25)

	Page 22		Page 24
1	waste.	1	A. Well, define you mean a meeting
2	Q. So there was a small two hundred	2	where it was other than Jack Wright and myself?
3	gallon tank on a trailer that was	3	Q. Yes.
4	A. On the back.	4	A. Just discussing things, no.
1		5	Q. Were you ever involved in a
5	Q. Let me finish asking the question	-	
6	just so we can make it easier for the court	6	meeting with anyone from Ohio EPA to discuss
7	reporter. You're talking about a vehicle with	7	the proposed barrelfill?
8	a trailer and a tank that would go to the	8	A. The people I met from Ohio EPA, I
9	generators and pick up waste and suck it out of	9	met them and talked to them but I was never in
10	whatever container it was in at the generator's	10	a meeting with them.
11	facility?	11	Q. Do you know who John Gedart was,
12	A. Yes. It was mounted on the back	12	GEDART?
13	of the tractor and the tractor could hook up,	13	A. The name sounds familiar but I'm
14	depending on what kind of waste you're getting,	14	not I don't have any idea what he looks
15	to a stainless steel tank, or if you're getting	15	like.
16	oil/water, you can put an iron tanker on there,	16	Q. Were you involved in any meetings
17		17	
	or if you're picking up acid waste, you use a		with anyone from Systech to discuss the Tremont
18	stainless steel.	18	barrelfill before it began operation?
19	Q. Are you describing a process that	19	A. No. I didn't realize that they
20	went on once the Tremont operation was up and	20	were doing that.
21	running?	21	Q. I'm trying to focus in on the time
22	A. Correct.	22	frame that you began work at Tremont because my
23	Q. Are you describing a process that	23	records show that it was more it started in
24	took place with respect to oil/water waste that	24	'76 and closed in '79 and that doesn't agree
25	went into the Tremont oil recovery plant?	25	with some of your earlier testimony about your
			· · · ·
	Page 23		Page 25
1	Page 23 A. Yes. That was one of the most	1	Page 25 employment history.
1	A. Yes. That was one of the most	1	employment history.
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	Page 26		Page 28
1	Q. And when you first moved over to	1	A. Okay. Maybe maybe that was
2	Tremont, did you have an office there?	2	I worked part-time at the hospital for a while.
3	A. Eventually. I was in the boiler	3	I started okay. I started part-time in '75.
4	room where they had the coalescers and where	4	Q. Now, let's go through this. This
5	the water from the oil/water separation.	5	was dated this document is dated November
6	Q. At some point was there a	6	30th, 1977, correct?
7	laboratory on site?	7	A. So I was still working there,
8	A. Eventually they got one of B.G.	8	yeah.
9	Danis' construction trailers and set it up out	9	Q. And this is addressed to you from
10	beside the building and started wanting to set	10	Ohio EPA?
11	up a lab where you could analyze things.	11	A. Yeah, Joe Moore, I remember him.
12	Q. And did you work in the lab?	12	Q. And it says Mr. Clyde Hill,
13	A. Some.	13	analytical chemist, IWD Chemical Disposal
14	Q. Where else did you work?	14	Company, so does that refresh your recollection
15	A. Mostly sorting the drums to make	15	as to the date that you worked or at least to
16	sure what they said was in there.	16	the time period that you worked at the Tremont
17	Q. You mentioned sorting the drums	17	site in 1977?
18	earlier at the Lagonda Avenue location. Were	18	A. Yeah. I was working part I
19	those drums destined for disposal at the	19	have forgotten how long I was working part-time
20	Tremont barrelfill?	20	at the hospital before I started full-time.
21	A. The ones that we didn't process.	21	Yeah, I think I remember talking to Joe about
22	Some of them, if it had TDI, which is toluene	22	this stuff.
23	diisocyanate, catalyst for polyol for making	23	Q. So this letter appears to be a
24	urethane foam, they would kill it with water	24	letter from Joe Moore of Ohio EPA?
25	and then it was a cyanide waste that we had to	25	A. Right.
25		25	A. Nght.
	Page 27		Page 29
1	Page 27 take up to Michigan, Bay City, Michigan to get	1	Page 29 O. That is communicating to you that
1	take up to Michigan, Bay City, Michigan to get	1	Q. That is communicating to you that
2	take up to Michigan, Bay City, Michigan to get that treated with chlorine.	2	Q. That is communicating to you that certain materials have been acceptable to be
2 3	take up to Michigan, Bay City, Michigan to get that treated with chlorine. Q. What do you mean by kill it with	2 3	Q. That is communicating to you that certain materials have been acceptable to be disposed in the chemical landfill?
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8 (Pages 26 to 29)

	Page 30		Pa	age 32
1	hospital when you started working at IWD?	1	Q. So you were there from the very	
2	A. I was working for IWD before I	2	first cell?	
3	started working at the hospital. I was working	3	A. Yes.	
4	there evenings and boy.	4	Q. So at least we know you were there	
5	Q. Let me ask you this: We know that	5	from the beginning up until at least March or	
6	you were working for IWD in 1977?	6	April of '79?	
7	A. Yes.	7	A. Yes.	
8	Q. And you left before Chemical Waste	8		
9				
	took over?	9	first cell was completed in 1976 at the end	
10	A. That's correct.	10	of 1976, does that sound about right?	
11	Q. How many months or years did you	11	A. That sounds right, yeah.	
12	leave before Chemical Waste took over? Was	12	Q. So then that would mean that you	
13	it do you think it was less than six months	13	were there about a little over two years total.	
14	before Chemical Waste purchased the company?	14	Does that sound about right?	1
15	A. Let's see. I left before they had	15	A. Two yeah. It wasn't two,	
16	decided, but they were pretty sure that Waste	16	two and a half, something like that.	
17	Management was interested in definitely buying	17	Q. So late '76 until early '79?	
18	the company. I'm guessing that it must have	18	A. Yeah.	
19	been roughly years that I worked part-time at	19	Q. You were there for almost the	
20	the hospital so probably '78. Let's see,	20	entire operating period of the barrelfill then?	
21	'85	21	A. Well, they had they only had	1
22		22	three cells that had they had two cells open	
	Q. How about this, let me ask you			
23	this question: You remember Nelson Wallis?	23	and were yeah, they didn't have three cells	
24	A. He had started, was doing he	24	filled. I don't know how many cells they wound	
25	was setting up the atomic absorption unit and	25	up with.	
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	Page 31		P	Page 33
1	Page 31 had it pretty much running before I left.	1	P. Q. You mean when you left or what	Page 33
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10 (Pages 34 to 37)

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	Page 34		Page 36
	then he would go back for another load of drums	1	change at any point?
2	and they had one guy that was running the	2	A. I didn't see any change.
3	backhoe that had a framework on there with	3	Q. So the whole time you were there
4	angle iron and you would take the drums that	4	your recollection is that they were always
5	are going in the cell and make sure the number	5	placed lying down in the cells?
6	that was on the drum and they would tip them	6	A. Correct.
7	off and then the guy would pick it up and set	7	Q. And they were not stacked?
8	it down.	8	A. That's right, because they
9	Q. Let me stop you right there.	9	wouldn't stack. You start stacking them up and
10	You're motioning with your arms sort of like a	10	they would fall over. You got one drum sitting
11	forklift. Are you saying they used a forklift?	11	this way tilted (indicating) and then you got
12	A. No, it was a backhoe.	12	another one sitting on a dirt dod and it's
13	Q. To lift the drums from the yard	13	tilted the other way and you can't stack on top
14	over to the cell?	14	of that, it falls over, so they wound up being
15	A. Right, pick it up and set them	15	placed horizontally.
16	down in the hole and then tip it and they would	16	Q. Do you remember whether there was
17	roll off in the correct location.	17	more than one level of drums in any given cell?
18	Q. So that the backhoe picked them up	18	A. Oh, yes. There was probably four
19	horizontally and carried them over and rolled	19	or five levels in there.
20	them off in a horizontal direction.	20	Q. And did that depend on the size of
21		20	the cell?
22	A. Correct, all the drums are horizontal.	22	A. The cells they had open were of
22			the same dimension. I don't remember exactly
	Q. Was there a man actually in the	23	•
24	cell straightening the drums?	24 25	what that dimension was, but it was enough to
25	A. Sometimes.	25	one layer let's see. Probably ten or eleven
	Dece 35		Page 37
1	Page 35	1	Page 37
	Q. How else would they line the drums	1	drums because a lot of times there was odd
2	Q. How else would they line the drums up vertically?	2	drums because a lot of times there was odd shaped and you use a shorter drum, it wouldn't
2	Q. How else would they line the drums up vertically? A. They didn't.	2 3	drums because a lot of times there was odd shaped and you use a shorter drum, it wouldn't make a full row or some dirt caved in and you
2 3 4	Q. How else would they line the drums up vertically?A. They didn't.Q. Oh, they left them horizontal?	2 3 4	drums because a lot of times there was odd shaped and you use a shorter drum, it wouldn't make a full row or some dirt caved in and you would have a vacant spot that would have held a
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			·	
	Page 38		Page	e 40
1	its own row where it belonged, then you would	1	Q. Put a TR for truck maintenance	
2	be wading in polyol so they got it up to where	2	building.	
3	it was full or, you know, full enough that you	3	A. And this is where the boiler room	
4	could walk around on the drums without stepping	4	and the water coalescing	
5	in anything.	5	Q. Why don't you put a BR for boiler	
6	Q. So would they pour the polyol	6	room.	
7	along the edges so it wasn't actually on top of	7	A. (Indicating.) And right here is	
8	the drum?	8	the lab (indicating).	
9	A. Oh, yeah, it would flow. Usually	9	Q. Why don't you just write lab	
10	get I imagine it came pretty much over.	10	there. Was that a trailer?	
11	Some of the polyol was almost set up and	11	A. Yes.	
12	Q. Do you mean almost solidified?	12	Q. So is it behind the boiler room	
13	A. It was real thick and wouldn't	13	building?	
14	flow very good.	14	A. That's correct.	
15	Q. Was this done with the polyol from	15	Q. You can't really see it in that	
16	the very first cell?	16	picture?	
17	A. Yes.	17	A. No, you can't, because it was	
18	Q. Was it done with every cell?	18	beside the building and the building is kind of	
19	A. Two of them I know.	19	hiding it. This is the oil/water separation	
20		20		
	Q. Do you know which two?		(indicating).	
21	A. The first two. In the northwest	21	Q. Why don't you put oil slash water.	
22	corner was the first cell and the then the next	22	So the building right above the word oil/water	
23	cell was right next to it. Here, I can show	23	is that facility?	
24	you on that picture.	24	A. Yeah, that's the see, these are	
25	MS. WOLFE: Who don't we mark this as	25	the roll-ons that there was about six of them	
			······································	
	Page 39		-	ge 41
1	Exhibit 2.	1	they processed the water. The waste would come	je 41
1 2		1 2	-	je 41
	Exhibit 2. (Thereupon, Plaintiff's Exhibit 2 was	1	they processed the water. The waste would come in here (indicating) and we would dump it in a	je 41
2	Exhibit 2. . (Thereupon, Plaintiff's Exhibit 2 was marked for purposes of identification.)	2	they processed the water. The waste would come in here (indicating) and we would dump it in a tank to get the sludge and rags and all that	je 41
2 3	Exhibit 2. (Thereupon, Plaintiff's Exhibit 2 was marked for purposes of identification.) Q. Handing you what has just been	2 3 4	they processed the water. The waste would come in here (indicating) and we would dump it in a tank to get the sludge and rags and all that stuff out of it and then we would pump the	ge 41
2 3 4 5	Exhibit 2. (Thereupon, Plaintiff's Exhibit 2 was marked for purposes of identification.) Q. Handing you what has just been marked as Exhibit 2, would you take this blue	2 3 4 5	they processed the water. The waste would come in here (indicating) and we would dump it in a tank to get the sludge and rags and all that stuff out of it and then we would pump the oil/water into these process tanks.	ge 41
2 3 4 5 6	Exhibit 2. (Thereupon, Plaintiff's Exhibit 2 was marked for purposes of identification.) Q. Handing you what has just been marked as Exhibit 2, would you take this blue pen or that green pen is just fine and	2 3 4 5 6	they processed the water. The waste would come in here (indicating) and we would dump it in a tank to get the sludge and rags and all that stuff out of it and then we would pump the oil/water into these process tanks. Q. Let's save that for a little bit	ge 41
2 3 4 5 6 7	Exhibit 2. (Thereupon, Plaintiff's Exhibit 2 was marked for purposes of identification.) Q. Handing you what has just been marked as Exhibit 2, would you take this blue pen or that green pen is just fine and circle well, first of all, tell me what you	2 3 4 5 6 7	they processed the water. The waste would come in here (indicating) and we would dump it in a tank to get the sludge and rags and all that stuff out of it and then we would pump the oil/water into these process tanks. Q. Let's save that for a little bit later on because there's so many more things I	ge 41
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Exhibit 2. (Thereupon, Plaintiff's Exhibit 2 was marked for purposes of identification.) Q. Handing you what has just been marked as Exhibit 2, would you take this blue pen or that green pen is just fine and circle well, first of all, tell me what you recognize. A. Yes. Q. What does this photograph depict? A. This is the maintenance (indicating) Q. The whole thing. A. The whole thing is the IWD Liquid Waste part of the landfill. Q. Can you tell whether this photo and this is a photograph of a photo. Can you tell whether this was taken while the barrelfill was in operation or not?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	they processed the water. The waste would come in here (indicating) and we would dump it in a tank to get the sludge and rags and all that stuff out of it and then we would pump the oil/water into these process tanks. Q. Let's save that for a little bit later on because there's so many more things I want to ask you about this polyol first. Can you identify on this picture where the cells were located? A. Right up starting up here (indicating), about approximately twenty feet from the edge is where the first cell was. Q. Why don't you put a one where you think the first cell was. A. (Indicating.) Q. And then do you know what direction they went from there on after the first cell? I see you're putting another box	ge 41
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Exhibit 2. (Thereupon, Plaintiff's Exhibit 2 was marked for purposes of identification.) Q. Handing you what has just been marked as Exhibit 2, would you take this blue pen or that green pen is just fine and circle well, first of all, tell me what you recognize. A. Yes. Q. What does this photograph depict? A. This is the maintenance (indicating) Q. The whole thing. A. The whole thing is the IWD Liquid Waste part of the landfill. Q. Can you tell whether this photo and this is a photograph of a photo. Can you tell whether this was taken while the barrelfill was in operation or not? A. Can't tell. This is the drum	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	they processed the water. The waste would come in here (indicating) and we would dump it in a tank to get the sludge and rags and all that stuff out of it and then we would pump the oil/water into these process tanks. Q. Let's save that for a little bit later on because there's so many more things I want to ask you about this polyol first. Can you identify on this picture where the cells were located? A. Right up starting up here (indicating), about approximately twenty feet from the edge is where the first cell was. Q. Why don't you put a one where you think the first cell was. A. (Indicating.) Q. And then do you know what direction they went from there on after the first cell? I see you're putting another box and that's got a two in it.	ge 41
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11 (Pages 38 to 41)

1	Page 42		Page 44
1	north end is where they started. Now, this	1	sort it and quit mixing them up, then it's
2	drum sorting area is where you would	2	yours, we're not going to touch it.
3	whenever there was enough drums to make it	3	Q. Do you remember what generators
4			
	worthwhile, then they would pick up that area	4	didn't do a good job sorting it?
5	and transport them on this trailer here.	5	A. Well, Inland at first. They had a
6	Q. Were you involved in I'm sorry.	6	whole bunch of drums at the downtown main plant
7	A. They would put about twenty drums	7	and a few at the Vandalia plant that's just
8	on this trailer and then the forklift would	8	sitting there. You got a drum and open it up.
9	take them up here (indicating) and unload them	9	Q. You told me on the phone you went
10	along	10	out there and actually had to go through each
11	Q. Why don't you put an arrow where	11	drum?
12	the truck starts and where it unloads.	12	A. Yeah. And it took almost three
13	A. Okay. They take the trailer in	13	weeks to sort out.
14	here and load the drums on with the forklift,	14	Q. Did you do that before the first
15	take them up here (indicating).	15	cell was dug?
16	Q. Just draw with your pen an arrow.	16	A. Yes. Yes.
17	A. (Indicating.)	17	Q. So was that one of the first
18	Q. So that's the direction where the	18	things you did in connection with the Tremont
19	truck goes to unload the drums?	19	site?
.20	A. Right. The barrel trailer or	20	A. Right.
21	whatever.	21	Q. Did anyone go with you?
22	Q. So the beginning of that arrow is	22	A. Usually the guy with the pumper
23	where the drum yard would be where they stored	23	truck, and then we had another guy, I would get
24	the drums?	24	some sorted out that was paint sludge, polyol
25	A. Right yeah, right in here	25	or something that wasn't going to handle bulk,
	Dara 43		Dec. 45
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 43 (indicating). And they would sort them by what they were. Q. Why don't you put a circle around where the drum yard was. A. (Indicating.) Q. And they would also do the sorting within that area? A. Right. When the truck, trailer, truck, whatever they came in on, they would come up here (indicating), and then we would check to see what they were and put them in the correct location so that but we had to check every drum because if it's waste that means whatever I throw in there doesn't make any difference and that was the hardest thing was trying to get your customers to sort it because then they give you a conglomeration of mess you can't do anything with except incinerate the whole drum and that's	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 45 mainly we were going through and getting the oil/water out of it because that was the biggest amounts of waste and we would set the other drums aside. And when I would get a load, then the barrel truck would come down there and they would load the drums on it and take them out and put them in the storage area. Q. Are you still talking about that three week period in the beginning? A. Yes. The drum truck wasn't there every day but the bulk truck was. I would sort and then when the drum truck had time from doing his other runs, they would come down there and I would have all the rolled water over here stacked up and then they would take them down because they had to operate the forklift and then we would suck the oil/water out. Q. So those drums were at Inland?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 (indicating). And they would sort them by what they were. Q. Why don't you put a circle around where the drum yard was. A. (Indicating.) Q. And they would also do the sorting within that area? A. Right. When the truck, trailer, truck, whatever they came in on, they would come up here (indicating), and then we would check to see what they were and put them in the correct location so that but we had to check every drum because if it's waste that means whatever I throw in there doesn't make any difference and that was the hardest thing was trying to get your customers to sort it because then they give you a conglomeration of mess you can't do anything with except incinerate the whole drum and that's Q. Was that a big problem in the beginning? A. Oh, yeah. Q. And then did it become less of a 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 mainly we were going through and getting the oil/water out of it because that was the biggest amounts of waste and we would set the other drums aside. And when I would get a load, then the barrel truck would come down there and they would load the drums on it and take them out and put them in the storage area. Q. Are you still talking about that three week period in the beginning? A. Yes. The drum truck wasn't there every day but the bulk truck was. I would sort and then when the drum truck had time from doing his other runs, they would come down there and I would have all the rolled water over here stacked up and then they would take them down because they had to operate the forklift and then we would suck the oil/water out. Q. So those drums were at Inland? A. Yeah. Q. And after you sort them, were they taken in the drums to the waste taken in the drums to the waste taken in the drums to Tremont?

12 (Pages 42 to 45)

	Page 46		Page 48
1	drums, yes, chlorinated solvent was another	1	there, Trichlor or 111 trichloroethane, if I
2	one. They were mixing chlorinated solvents and	2	could smell any of that, then I called it
3	toluene and acetone, flammable and nonflammable	3	chlorinated solvent.
		-	
4	together so we couldn't treat that so it had to	4	Q. So it might have had some portion
5	go to Bay City and they made an expensive run,	5	of a chlorinated solvent and something else
6	and we finally got them to put the toluene and	6	mixed together because you would consider it
7	acetone in separate drums so they could be	7	all to be chlorinated solvent?
8	incinerated bulk but we had to work with them	8	A. Right. That's the worst case.
9	to get them to sort out their waste to where it	9	Q. Describe the spot checking process
10	could be handled efficiently.	10	to me.
11	Q. So which waste was pumped out of	11	A. Okay. When we got back to the
12	drums at Inland into a tanker truck and hauled	12	lab, we would take a sample of some of them and
13	back to Tremont?	13	run a GC to see what else is in there.
14	A. The oil/water.	14	Q. What's a GC?
15	Q. Only the oil/water?	15	A. Gas chromatograph. And you can
16	A. Right, at first. Because the	16	see your different solvent beads come in. It's
17	others, if it was a solvent they just threw it	17	the same thing you see on CSI when they get the
18	in the same drum and you can't process	18	little pieces. It's the same instrument and
19	flammable solvents and chlorinated solvents the	19	you can identify your different solvents and as
20	same way.	20	long as it was pretty much what we thought it
21	Q. After you finished that three week	21	was, there wasn't anything that would mess it
22	process of sorting and identifying all of that	22	up and make it hard to process, wouldn't get
23	waste, did they continue to did Inland	23	treated like that. A lot of times there would
24	continue to mix their waste types or did they	24	be very much chlorinated but there's some and
25	stop doing that?	25	the chlorinated solvent won't burn and if you
	F		···· , ·· , ··· , ··· , ·· , ··· , ··· , ··· , ··· , ··· , ··· , · , ·· , · , · , ·· , · , · , ·· , · ,
\vdash	Page 47		Page 49
	Page 47		Page 49
1	A. They almost all because we have	1	pump that into an incinerator it would shut it
2	A. They almost all because we have got a difference of twenty dollars a drum or a	2	pump that into an incinerator it would shut it off, so it had to be disposed of as a
2 3	A. They almost all because we have got a difference of twenty dollars a drum or a hundred and fifty dollars a drum and they	2 3	pump that into an incinerator it would shut it off, so it had to be disposed of as a chlorinated solvent.
2 3 4	A. They almost all because we have got a difference of twenty dollars a drum or a hundred and fifty dollars a drum and they decided that it would be easier to retrain	2 3 4	pump that into an incinerator it would shut it off, so it had to be disposed of as a chlorinated solvent. Q. What did you do with the
2 3 4 5	A. They almost all because we have got a difference of twenty dollars a drum or a hundred and fifty dollars a drum and they decided that it would be easier to retrain their people to sort stuff out and then quit	2 3 4 5	pump that into an incinerator it would shut it off, so it had to be disposed of as a chlorinated solvent. Q. What did you do with the chlorinated solvent from Inland or from other
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2 3 4 5 6 7 8 9 10 11 12 13	 A. They almost all because we have got a difference of twenty dollars a drum or a hundred and fifty dollars a drum and they decided that it would be easier to retrain their people to sort stuff out and then quit just throwing it away in whatever drum was handy and they eventually but occasionally somebody would pour some acetone in a chlorinated solvent drum or vice versa and then the whole drum was messed up and you had to use chlorinated solvent. Q. Did you test every single drum that was at Inland during that period? A. We would do spot tests and then 	2 3 4 5 6 7 8 9 10 11 12 13	 pump that into an incinerator it would shut it off, so it had to be disposed of as a chlorinated solvent. Q. What did you do with the chlorinated solvent from Inland or from other generators? A. They went up to Bay City. The cyanide waste and the chlorinated solvents would go to Bay City, Michigan. Some of the first ones that were mostly flammable went up to Fremont to be injected in the deep wells and then we were getting too much flammable solvents in so they had to go to Bay City and
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13 (Pages 46 to 49)

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	Page 50		Page 52
1	got that. I don't remember if it was DP&L or	1	landfill.
2	somebody had some transformer oil and we sent	2	Q. Do you remember going out to any
3	that to Bay City because it had PCB's.	3	other generators to examine waste?
4	Q. Getting back to your three weeks	4	A. I started going with the salesmen
5	that you spent at Inland at the beginning of	5	to new customers to see what they had in the
6	the barrelfill operation, was did you	6	way of waste stream and how they were
7	continue to visit Inland after the barrelfill	7	separating it and explaining to them that you
8	got underway to examine their waste?	8	have got all these mixed drums that we can't do
9	A. Most of the time after we caught	9	anything with and you will have to sort this in
10	up they had the reason I went down there was	10	one drum, this in another drum, this in another
11	they had a whole parking lot full of drums	11	drum and label them and then we will take them.
12	because IWD, Industrial Waste had cut them off	12	Q. Was this also before the
13	because they had been just loading all their	13	barrelfill began operating or after it had
14	waste in a roll-on, take it out to the landfill	14	begun operating, if you remember?
15	and just dump it.	15	A. Okay. This is I don't think
16	Q. In the solid waste landfill?	16	they were at first they weren't burying
17	A. Yes. And they ran over the	17	drums just, you know, because we didn't have
18	terracks (phonetic) that they push the dirt	18	enough to get a cell pretty full and if you
19	around and level out the trash, ran over one of	19	
20	these drums of acetone and toluene and it	20	leave it open for months and months and months,
21	caught on fire and burned up their hundred and	20	then it's going to get rainwater in there and
22	*	22	then you have got something that will leach and
23	fifty thousand dollar terracks so they said no		so they would wait until they had enough drums
24	more. So they were just stacking up their	23	in the yard to get it pretty much full and then
25	waste until IWD Liquid Waste got set up where	24 25	they would start they would dig a cell out
25	they could handle it and start bringing the	25	and start burying drums so it wouldn't be
	Page 51		Page 53
1	drums, but there were so many drums that it was	1	sitting open.
2	easier to sort them down there and pump the	2	Q. Do you remember how they
3	ones that you could, because, oh, gosh, you get	3	identified each cell?
4	about a hundred and twenty drums of oil and	4	A. Some kind of a numbering system.
5	water and we could put those all in a tank	5	Q. Do you remember there being
6	truck and leave the drums there and let them	6	letters and numbers like A-1, A-2, A-3?
	worry with cleaning them up and disposing of	7	A. Okay, yeah, the numbers were going
8	them.	8	across the north side on numbers run from
9	But the ones, the open-head drums	9	west to east and the letters run from north to
10	that they would shovel out, paint sludge from	10	south. That's the way they said they were
11	the paint and spray booth had like a wall of	11	going to do it anyway.
12	water coming down and overspray hits that and	12	MS. WOLFE: Will you mark this?
13	goes down and then they have this big sump that	13	THE WITNESS: I don't know if they
13	they shovel out and fill up the drum, and that	14	continued.
14	was kind of a slurry and they didn't want that	14	
16			(Thereupon, Plaintiff's Exhibit 3 was
	in the landfill, because if you dump that, then	16	marked for purposes of identification.)
17	you got this gooey mess that you're driving	17	Q. Showing you what has just been
18	5	18	marked for identification purposes as Hill
19		19	Exhibit 3, would you take a look at that single
20		20	page document and tell me if you have seen it
21		21	before?
22		22	(Pause in proceedings.) THE WITNESS: I haven't seen all
24		23	those.
25		24	Q. You have not seen it before,
123	just things that are hard to handle in a	125	

14 (Pages 50 to 53)

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	Page 54		Page 56
1	but	1	to fill it because we had the drum yard was
2	A. No. No.	2	full of all these drums. We had enough to
3	Q. I'll represent to you this is a	3	pretty much fill a cell with what we had on
4	representative depiction of the location of	4	hand.
5	each cell at the barrelfill which is not to	5	
			Q. Well, if the first cell was begun
6	scale but generally attempts to show where the	6	November 5, 1976, then can you estimate how
7	different rows are located.	7	much time was spent prior to that collecting
8	A. Okay. It looks	8	drums so there would be enough for this cell?
9	Q. You do recognize the layout based	9	If you don't know, that's okay.
10	on what this shows?	10	A. I'm guessing it was probably over
11	A. Yeah, it would be I can't	11	a year that we were or close to a year.
12	imagine those down here okay. Evidently	12	Q. So you probably spent most of 1976
13	they decided to this, I'm pretty sure, is	13	preparing for the first cell?
14	probably the northwest corner (indicating).	14	A. Yes. Yes. I'm not sure that they
15	Q. It doesn't actually say northwest	15	
			had the permit to put drums in the ground
16	corner at the bottom of the drawing. It's hard	16	because they we were storing and sorting
17	to read.	17	drums and, man, there was a bunch of drums.
18	A. Okay.	18	This yard was really full and they finally did
19	Q. You're pointing at the corner	19	get the okay and then they dug that cell and
20	where A-1 is?	20	then we tried to get it full so we wouldn't
21	Yes, that's the first cell.	21	have a lot of rainwater in there because that
22	Q. A-1 was the first cell.	22	would be bad. If you have got rainwater, then
23	A. Yes, and B-1 was the second cell.	23	you have got something that will leach out. In
24	Q. I'm going to ask the court	24	the paint sludge you got a little bit of water
25	reporter to mark another exhibit while you look	25	that didn't drain away. It was mostly water
25	reporter to mark another exhibit while you look	25	that thun t than away. It was mostly water
		1	
	Page 55		Page 5
1	at this.	1	and dry paint.
2	at this. A. This was first	2	and dry paint. Q. Did you have any responsibility
2 3	at this. A. This was first MS. WOLFE: Let's give the court	2 3	and dry paint. Q. Did you have any responsibility for preparing these cell reports?
2 3 4	at this. A. This was first MS. WOLFE: Let's give the court reporter a chance to mark this.	2 3 4	and dry paint. Q. Did you have any responsibility for preparing these cell reports? A. No, other than I see what you were
2 3 4 5	at this. A. This was first MS. WOLFE: Let's give the court reporter a chance to mark this. (Thereupon, Plaintiff's Exhibit 4 was	2 3 4 5	 and dry paint. Q. Did you have any responsibility for preparing these cell reports? A. No, other than I see what you were talking about that they coded it the guys
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	at this. A. This was first MS. WOLFE: Let's give the court reporter a chance to mark this. (Thereupon, Plaintiff's Exhibit 4 was marked for purposes of identification.) Q. Handing you what has just been marked at Hill Exhibit 4, I'll represent that this is the cell report for cell A-1. Would you take a look at it and tell me if you have seen this before? A. It looks like yeah. This is a report of the first yeah, it's the first cell because I remember it had Inland drums in it. Q. What is the date that it says the cell was completed? A. Completed in December 14th of 1976.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	and dry paint. Q. Did you have any responsibility for preparing these cell reports? A. No, other than I see what you were talking about that they coded it the guys burying the drums couldn't spell the chemical name so they gave them a sheet and down here we sorted the drums and put this number on the drum so they would know what it was when they buried it and they were just keeping count and they had to a similar, well, it was a big piece of paper and they would Q. If you flip that over, I think you might see the document you're talking about which I think you're referring as to the barrel log; is that correct? A. Yes. Q. You're looking at the third page of the exhibit now?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	at this. A. This was first MS. WOLFE: Let's give the court reporter a chance to mark this. (Thereupon, Plaintiff's Exhibit 4 was marked for purposes of identification.) Q. Handing you what has just been marked at Hill Exhibit 4, I'll represent that this is the cell report for cell A-1. Would you take a look at it and tell me if you have seen this before? A. It looks like yeah. This is a report of the first yeah, it's the first cell because I remember it had Inland drums in it. Q. What is the date that it says the cell was completed? A. Completed in December 14th of 1976. Q. And it says it was started	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 and dry paint. Q. Did you have any responsibility for preparing these cell reports? A. No, other than I see what you were talking about that they coded it the guys burying the drums couldn't spell the chemical name so they gave them a sheet and down here we sorted the drums and put this number on the drum so they would know what it was when they buried it and they were just keeping count and they had to a similar, well, it was a big piece of paper and they would Q. If you flip that over, I think you might see the document you're talking about which I think you're referring as to the barrel log; is that correct? A. Yes. Q. You're looking at the third page of the exhibit now? A. Okay, yes, that's it. And they were the one they were working with they did
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	at this. A. This was first MS. WOLFE: Let's give the court reporter a chance to mark this. (Thereupon, Plaintiff's Exhibit 4 was marked for purposes of identification.) Q. Handing you what has just been marked at Hill Exhibit 4, I'll represent that this is the cell report for cell A-1. Would you take a look at it and tell me if you have seen this before? A. It looks like yeah. This is a report of the first yeah, it's the first cell because I remember it had Inland drums in it. Q. What is the date that it says the cell was completed? A. Completed in December 14th of 1976. Q. And it says it was started November 5th, 1976? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	and dry paint. Q. Did you have any responsibility for preparing these cell reports? A. No, other than I see what you were talking about that they coded it the guys burying the drums couldn't spell the chemical name so they gave them a sheet and down here we sorted the drums and put this number on the drum so they would know what it was when they buried it and they were just keeping count and they had to a similar, well, it was a big piece of paper and they would Q. If you flip that over, I think you might see the document you're talking about which I think you're referring as to the barrel log; is that correct? A. Yes. Q. You're looking at the third page of the exhibit now? A. Okay, yes, that's it. And they were the one they were working with they did like Roman numerals. They would put I, II,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	at this. A. This was first MS. WOLFE: Let's give the court reporter a chance to mark this. (Thereupon, Plaintiff's Exhibit 4 was marked for purposes of identification.) Q. Handing you what has just been marked at Hill Exhibit 4, I'll represent that this is the cell report for cell A-1. Would you take a look at it and tell me if you have seen this before? A. It looks like yeah. This is a report of the first yeah, it's the first cell because I remember it had Inland drums in it. Q. What is the date that it says the cell was completed? A. Completed in December 14th of 1976. Q. And it says it was started November 5th, 1976? A. Yes. Q. Does that sound about right to you	2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 and dry paint. Q. Did you have any responsibility for preparing these cell reports? A. No, other than I see what you were talking about that they coded it the guys burying the drums couldn't spell the chemical name so they gave them a sheet and down here we sorted the drums and put this number on the drum so they would know what it was when they buried it and they were just keeping count and they had to a similar, well, it was a big piece of paper and they would Q. If you flip that over, I think you might see the document you're talking about which I think you're referring as to the barrel log; is that correct? A. Yes. Q. You're looking at the third page of the exhibit now? A. Okay, yes, that's it. And they were the one they were working with they did like Roman numerals. They would put I, II, III, IV, V.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	at this. A. This was first MS. WOLFE: Let's give the court reporter a chance to mark this. (Thereupon, Plaintiff's Exhibit 4 was marked for purposes of identification.) Q. Handing you what has just been marked at Hill Exhibit 4, I'll represent that this is the cell report for cell A-1. Would you take a look at it and tell me if you have seen this before? A. It looks like yeah. This is a report of the first yeah, it's the first cell because I remember it had Inland drums in it. Q. What is the date that it says the cell was completed? A. Completed in December 14th of 1976. Q. And it says it was started November 5th, 1976? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 and dry paint. Q. Did you have any responsibility for preparing these cell reports? A. No, other than I see what you were talking about that they coded it the guys burying the drums couldn't spell the chemical name so they gave them a sheet and down here we sorted the drums and put this number on the drum so they would know what it was when they buried it and they were just keeping count and they had to a similar, well, it was a big piece of paper and they would Q. If you flip that over, I think you might see the document you're talking about which I think you're referring as to the barrel log; is that correct? A. Yes. Q. You're looking at the third page of the exhibit now? A. Okay, yes, that's it. And they were the one they were working with they did like Roman numerals. They would put I, II, III, IV, V, I, II, III, IV, V. Q. Just a tick mark sometimes or

15 (Pages 54 to 57)

RESA v. Waste Management, Inc., et al.

	Page 58	4	Page 60 X's?
12	the row of numbers? A. Well, instead of fifteen of this	1 2	A. Roman numerals.
3	compound, they would go I, II, III, IV, V in	3	Q. Do you know whether after the log
4	this box and after they got that they would	4	was initially filled out, whether it was
5	convert them to real numbers, but they was on a	5	usually copied over to make it neater?
6	clipboard up there and as they would put it in	6	A. Well, this one was.
7	they would mark it.	7	Q. You're referring to the third
8	Q. How about if you look at the I	8	page. That looks like a summary where somebody
9	don't have any another copy of this so I'm	9	totaled it up.
10	sorry I have to reach over, but if you look at	10	A. Right.
11	the third page	11	Q. And it looks like they totaled up
12	MS. WOLFE: I'm sorry, I don't have	12	all the pages underneath?
13	copies of this one, but we can copy it later.	13	A. Okay. And apparently this is just
14	Q. Does this look familiar?	14	one level and he's keeping track, but it
15	A. Yeah. I	15	doesn't indicate which corner because he
16	Q. Do you know who filled this out?	16	started across there and then he would they
17	This was the first cell.	17	would start with one kind of waste and load a
18	A. Charlie Goings probably. He was	18	whole row with it and then start with the next
19	running the backhoe and who was helping him?	19	row over and start loading until he got done
20	Q. Does Lester Slaughter ring a bell,	20	with the rest of it. But this looks like it
21	Butch Slaughter or one of Charlie's sons	21	kind of made it the other one would get goo
22	perhaps?	22	from your gloves and stuff on it. But that's
23	A. Yeah, it was one of his sons was	23	what it looks like, he's indicating that but
24	helping. He was unloading the trucks down in	24	I'm assuming that this is probably the
25	the barrel sorting area.	25	northwest corner (indicating).
 		 	
	Page 59		Dage 61
	l uge 55		Page 61
1	Q. Do you know if that was Shorty or	1	Q. You're marking on there NW?
2	Q. Do you know if that was Shorty or Rick?	2	Q. You're marking on there NW?A. This was the first the
	Q. Do you know if that was Shorty or Rick? A. I'm guessing it was Rick.	2 3	Q. You're marking on there NW? A. This was the first the northwest corner is the way that these were
2 3 4	 Q. Do you know if that was Shorty or Rick? A. I'm guessing it was Rick. Q. Do you remember Shorty and Rick? 	2 3 4	Q. You're marking on there NW? A. This was the first the northwest corner is the way that these were laid out.
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2 3 4 5 6	 Q. Do you know if that was Shorty or Rick? A. I'm guessing it was Rick. Q. Do you remember Shorty and Rick? A. Yeah. Q. Do you know whether Rick worked 	2 3 4 5 6	 Q. You're marking on there NW? A. This was the first the northwest corner is the way that these were laid out. Q. So that was the northwest corner of that particular cell?
2 3 4 5 6 7	 Q. Do you know if that was Shorty or Rick? A. I'm guessing it was Rick. Q. Do you remember Shorty and Rick? A. Yeah. Q. Do you know whether Rick worked with Charlie at the cells more than Shorty did? 	2 3 4 5 6 7	 Q. You're marking on there NW? A. This was the first the northwest corner is the way that these were laid out. Q. So that was the northwest corner of that particular cell? A. Right.
2 3 4 5 6 7 8	 Q. Do you know if that was Shorty or Rick? A. I'm guessing it was Rick. Q. Do you remember Shorty and Rick? A. Yeah. Q. Do you know whether Rick worked with Charlie at the cells more than Shorty did? A. Yeah, I think so. 	2 3 4 5 6 7 8	 Q. You're marking on there NW? A. This was the first the northwest corner is the way that these were laid out. Q. So that was the northwest corner of that particular cell? A. Right. Q. Were the cells square?
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Mike Mobley Reporting 937-222-2259 16 (Pages 58 to 61)

		ige 62		Page 64
1	the cell?	1	1	A. Yeah.
2	A. Yes.		2	Q. Do you know if that ever happened
3	Q. And you think that was the second		3	at any other times with paint sludge?
4	cell that they filled?		4	A. I don't remember another batch
5	A. That they wound up with paint		5	being that bad.
6	sludge in it because what was it, it was		6	Q. I would like to figure out exactly
7	gosh. The plant up in Troy, they had a bunch		7	which cell it was based on the
8	of drums that they had sitting out behind their	1	8	A. Okay. I didn't
9	plant that they had been putting paint sludge		9	Q photograph let me just
10	in.	1	10	finish the question. Let me just ask you a
11	Q. What company was that?		11	question and then you can answer it for me. We
12	A. Gosh.		12	agreed that the northwest corner of the diagram
13	Q. Was it a big company or small		13	which is Exhibit 3 is where you wrote the words
14	company?		14	first cell with a little arrow here?
15	A. It was a pretty good sized		15	A. Yeah.
16	building. It was across Copeland was on the		16	
17				Q. And then we agreed that the corner
	east side of the highway and it was off on		17	of the property that's at the northwest corner
18	back about a couple of blocks off of 75.		18	is where you have the little one on Exhibit 2?
19	Trying to think. Stolle. Stolle Corporation.		19	A. Um-hum. And the second
20	Stolle. Stolle.		20	Q. Then would you say the second
21	Q. Stolle?		21	one
22	A. Yeah. And they had a bunch of	1	22	A. Was right next to it.
23	paint sludge that they had cleaned out and put		23	Q which is right next to it would
24	in drums and just because we had looked at		24	have been this one that I'm pointing to here
25	them a year earlier and they didn't want to pay		25	that has this as B-1 on the diagram?
	P	age 63		Page 6!
1	the price. They said well, we'll see somebody		1	A. Correct.
2	else that will dispose of them cheaper and they		2	Q. Let me put a little star there
3	just set out there until they got rusty and		3	where that one is. So it looks as though it
4	started leaking so		4	would have gone A-1, B-1, C-1, D-1, E-1?
5	Q. How many drums were there if you		5	
6				A. That was the plan.
1 0	can estimate? Was it more than			A. That was the plan.O. Is that what you remember?
	can estimate? Was it more than A, I would say probably eighty drums		6	Q. Is that what you remember?
7	A. I would say probably eighty drums		6 7	Q. Is that what you remember? A. Yes.
7 8	A. I would say probably eighty drums maybe because there was two truckloads that		6 7 8	Q. Is that what you remember?A. Yes.Q. So this way (indicating). Okay.
7 8 9	A. I would say probably eighty drums maybe because there was two truckloads that they picked up, Stolle Corporation.		6 7	Q. Is that what you remember?A. Yes.Q. So this way (indicating). Okay.So then that second cell where you recalled the
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1 A. Yes. 2 Q. And you believe that was the second cell to be	r				
2Q. And you believe that was the 32that paint sludge.3second cell to be 4A. Right.3Q. And so where it says ten thousand 1atex, that was the paint sludge.4A. Right	1	Page 66		Page	e 68
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24 other cells? 24 matches up.					
1/5 A UNION SEPARATION ADVINTED ADVINTED 175 DULING VIOLINGENDAR VIOLATION OF			147		
	25	A. I didn't see any put in any other	25	Q. Do you remember what kind of	

18 (Pages 66 to 69)

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	Page 70		Page 72
1	paperwork was used to keep track of bulk	1	down and we wouldn't pick it up until we were
2	material that came in in tankers?	2	ready to dump it because we didn't have any
3	A. Other than it would have had to	3	place to store that stuff. Once you got it out
4	have been each driver would make a log of what	4	it would settle and then you couldn't pump it
5	he had picked up from the customer and he'd	5	or anything.
6	give that gosh, can't think of the kid's	6	Q. So how many occasions do you
7	name that was the accountant, but he would log	7	remember doing this? Was it a regular thing?
8	it down that he picked up so many gallons of	8	A. I'm not for sure how long it took
9	whatever from the customer and then they would	9	to fill up the hopper over there, depending on
10	figure out, you know, he would look and see	10	what their production schedule is, how much
11	what the charge was and write out the billing	11	they were running, but it was it was like
12	and whatever was done with it, if it was sent	12	every two or three weeks they would seems to
13	to Bay City or put in the drum storage area	13	me, or two weeks to a month to get it full and
14	he had a spreadsheet that he listed what had	14	then we would pick it up when we had enough
15	come in on this truckload and from what	15	drums in the cell to where they could just dump
16	customer.	16	it in without because if it floods up over
17	Q. That was the accountant that kept	17	the top of the cell, you can't finish filling
18	track of it?	18	it.
19	A. Yes.	19	
20			Q. Do you remember what size truck
	Q. He was an on-site accountant?	20	was used to pick it up?
21	A. Yeah. He did he didn't do	21	A. About a six thousand gallon
22	the well, he filled out timecards on the	22	tanker, vacuum truck.
23	hourly people and turned them in to Danis which	23	Q. Do you remember any other bulk
24	cut the checks and he kept track of the stuff	24	waste that was picked up in a tanker and then
25	to send in for billing to bill the customers.	25	brought directly to the site and poured into
		1	
1	Page 71 Q. Mr. Hill, do you want to take a	1	Page 73 the cells like the asbestos water?
2	break for a few minutes? We've been going for	2	A. No, because they were putting the
3	a while now.	$\frac{2}{3}$	
4		4	polyol in drums.
	A. Well, if you do, then I'll have to		Q. The polyol was never handled in
5	leave shortly. I have got to be back in Xenia about 4:00.	5	that fashion?
6		6	A. No, it was never bulk because it would take them several days to fill drums.
8	Q. I'm not sure we're going to be done by then. But we won't take a break then.	8	When they are making the foam cushions, you
9	We'll just keep going and see, but I can't	9	have polyol and TDI in the machine and at the
10	guarantee that we will be done.	10	end of their shift whatever four or five
11	So you said earlier that you	11	
1 + +			dallons of whatever it was not dumped out of
112			gallons of whatever it was got dumped out of
12	remember asbestos water being picked up from	12	the machine into the drum. The TDI they would
13	remember asbestos water being picked up from Inland?	12 13	the machine into the drum. The TDI they would put in a drum and rinse everything out and that
13 14	remember asbestos water being picked up from Inland? A. Right, or Vandalia.	12 13 14	the machine into the drum. The TDI they would put in a drum and rinse everything out and that went in the drum and then the polyol.
13 14 15	remember asbestos water being picked up from Inland? A. Right, or Vandalia. Q. Do you remember any other	12 13 14 15	the machine into the drum. The TDI they would put in a drum and rinse everything out and that went in the drum and then the polyol. Q. So when polyol was poured from the
13 14 15 16	remember asbestos water being picked up from Inland? A. Right, or Vandalia. Q. Do you remember any other generators of asbestos water?	12 13 14 15 16	the machine into the drum. The TDI they would put in a drum and rinse everything out and that went in the drum and then the polyol. Q. So when polyol was poured from the drums into the cells in those early cells, how
13 14 15 16 17	remember asbestos water being picked up from Inland? A. Right, or Vandalia. Q. Do you remember any other generators of asbestos water? A. No, nobody else made it's just	12 13 14 15 16 17	the machine into the drum. The TDI they would put in a drum and rinse everything out and that went in the drum and then the polyol. Q. So when polyol was poured from the drums into the cells in those early cells, how many gallons would be treated in that fashion?
13 14 15 16 17 18	remember asbestos water being picked up from Inland? A. Right, or Vandalia. Q. Do you remember any other generators of asbestos water? A. No, nobody else made it's just the scrubber waste from it used to be dry	12 13 14 15 16 17 18	the machine into the drum. The TDI they would put in a drum and rinse everything out and that went in the drum and then the polyol. Q. So when polyol was poured from the drums into the cells in those early cells, how many gallons would be treated in that fashion? A. Gosh, there would be over two
13 14 15 16 17 18 19	remember asbestos water being picked up from Inland? A. Right, or Vandalia. Q. Do you remember any other generators of asbestos water? A. No, nobody else made it's just the scrubber waste from it used to be dry and they would just dump it in a landfill and	12 13 14 15 16 17 18 19	the machine into the drum. The TDI they would put in a drum and rinse everything out and that went in the drum and then the polyol. Q. So when polyol was poured from the drums into the cells in those early cells, how many gallons would be treated in that fashion? A. Gosh, there would be over two hundred barrels.
13 14 15 16 17 18 19 20	remember asbestos water being picked up from Inland? A. Right, or Vandalia. Q. Do you remember any other generators of asbestos water? A. No, nobody else made it's just the scrubber waste from it used to be dry and they would just dump it in a landfill and bury it, but that's pretty hazardous because it	12 13 14 15 16 17 18 19 20	the machine into the drum. The TDI they would put in a drum and rinse everything out and that went in the drum and then the polyol. Q. So when polyol was poured from the drums into the cells in those early cells, how many gallons would be treated in that fashion? A. Gosh, there would be over two hundred barrels. Q. You mean empty barrels at the end
13 14 15 16 17 18 19 20 21	remember asbestos water being picked up from Inland? A. Right, or Vandalia. Q. Do you remember any other generators of asbestos water? A. No, nobody else made it's just the scrubber waste from it used to be dry and they would just dump it in a landfill and bury it, but that's pretty hazardous because it will blow around and everything and so they	12 13 14 15 16 17 18 19 20 21	the machine into the drum. The TDI they would put in a drum and rinse everything out and that went in the drum and then the polyol. Q. So when polyol was poured from the drums into the cells in those early cells, how many gallons would be treated in that fashion? A. Gosh, there would be over two hundred barrels. Q. You mean empty barrels at the end to dispose of?
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13 14 15 16 17 18 19 20 21 22 23 24	remember asbestos water being picked up from Inland? A. Right, or Vandalia. Q. Do you remember any other generators of asbestos water? A. No, nobody else made it's just the scrubber waste from it used to be dry and they would just dump it in a landfill and bury it, but that's pretty hazardous because it will blow around and everything and so they started using a water scrubber and then we would pick up the slurry in covered roll-ons and a vacuum truck. We would come up and open	12 13 14 15 16 17 18 19 20 21 22 23 24	the machine into the drum. The TDI they would put in a drum and rinse everything out and that went in the drum and then the polyol. Q. So when polyol was poured from the drums into the cells in those early cells, how many gallons would be treated in that fashion? A. Gosh, there would be over two hundred barrels. Q. You mean empty barrels at the end to dispose of? A. Yeah, because they would have to put them let's see. This is the pond (indicating) just southeast of the drum storage
13 14 15 16 17 18 19 20 21 22 23	remember asbestos water being picked up from Inland? A. Right, or Vandalia. Q. Do you remember any other generators of asbestos water? A. No, nobody else made it's just the scrubber waste from it used to be dry and they would just dump it in a landfill and bury it, but that's pretty hazardous because it will blow around and everything and so they started using a water scrubber and then we would pick up the slurry in covered roll-ons	12 13 14 15 16 17 18 19 20 21 22 23	the machine into the drum. The TDI they would put in a drum and rinse everything out and that went in the drum and then the polyol. Q. So when polyol was poured from the drums into the cells in those early cells, how many gallons would be treated in that fashion? A. Gosh, there would be over two hundred barrels. Q. You mean empty barrels at the end to dispose of? A. Yeah, because they would have to put them let's see. This is the pond

19 (Pages 70 to 73)

	Page 74		Page 76
1	of south of the boiler room they would wind up	1	figures indicate?
2	stacking all these drums, empty ones for	2	A. No.
3	Cincinnati Barrel to pick up. They would take	3	Q. Do you remember any cell where
4	most of the drums that they could clean up that	4	that amount of polyol was dumped in bulk in the
5	were check them over and if they didn't have	5	cell?
6	any holes or things that they could clean up,	6	A. That's there wouldn't be any
7	they would take them back down to Cincinnati to	7	room for drums. They couldn't have put ten
8	reprocess and the bad ones had to be smashed	8	thousand gallons of sludge in each layer. It
9	and put in the landfill.	9	would have filled up and spilled out. There's
10	Q. In the barrelfill or in the solid	10	not that much volume. I think we figured
11	waste landfill?	11	somewhere between twenty and twenty-five
12	A. I'm not sure. Because there was a	12	gallons should have pretty much filled it up.
13	stack of them down there. I'm not sure if they	13	If you had all the drums in there, you didn't
14	laid them on top or put them in the other	14	have enough volume to put a hundred thousand
15	landfill. I really don't remember. There was	15	gallons of sludge in there.
16	a whole bunch of empty drums when I left.	16	
			Q. You figured that the most bulk you
17	MS. WOLFE: I'm just going to take a	17	would put in between the drums was twenty
18	minute to ask the reporter to mark another	18	thousand to twenty-five thousand gallons, is
19	exhibit.	19	that what you're saying, if you know? You
20	(Thereupon, Plaintiff's Exhibit 6 was	20	don't have to guess.
21	marked for purposes of identification.)	21	A. Well, I would have to because
22	Q. I'm handing you what has just been	22	the first cell according to the log sheet, it
23	marked as Hill Exhibit 6 for identification	23	looked like there was about thirty thousand
24	purposes and this is the solid report for cell	24	gallons. No, that was the second cell. And it
25	A-2. Have you seen this before?	25	was up it was up to at least the third or
_	····		·····
1	Page 75		Page 77
	Page 75	1	Page 77 second from the top layer of drums, the best I
1	A. I'm not sure of that one.	1	second from the top layer of drums, the best I
2	A. I'm not sure of that one.Q. If you turn to the fourth page of	2	second from the top layer of drums, the best I remember.
2	 A. I'm not sure of that one. Q. If you turn to the fourth page of the exhibit, at the top right where it says 	2 3	second from the top layer of drums, the best I remember. Q. You're talking about cell B-1 that
2 3 4	 A. I'm not sure of that one. Q. If you turn to the fourth page of the exhibit, at the top right where it says bulk sludges 	2 3 4	second from the top layer of drums, the best I remember. Q. You're talking about cell B-1 that had one thousand nine hundred and eighty drums?
2 3 4 5	 A. I'm not sure of that one. Q. If you turn to the fourth page of the exhibit, at the top right where it says bulk sludges A. Must have gone too far again. 	2 3 4 5	second from the top layer of drums, the best I remember. Q. You're talking about cell B-1 that had one thousand nine hundred and eighty drums? A. Yes.
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2 3 4 5 6 7 8 9 10 11	 A. I'm not sure of that one. Q. If you turn to the fourth page of the exhibit, at the top right where it says bulk sludges A. Must have gone too far again. Q. Right there (indicating). Do you see some handwriting there? A. Yes. Q. Where it says it looks like it says ten thousand? A. Ten thousand gallons. 	2 3 4 5 6 7 8 9 10	 second from the top layer of drums, the best I remember. Q. You're talking about cell B-1 that had one thousand nine hundred and eighty drums? A. Yes. Q. And if those were each fifty-five gallon drums, then that's a hundred and eight thousand nine hundred gallons, although they are in drums so there's going to be some empty space? A. Yeah, around it, but the first
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A. I'm not sure of that one. Q. If you turn to the fourth page of the exhibit, at the top right where it says bulk sludges A. Must have gone too far again. Q. Right there (indicating). Do you see some handwriting there? A. Yes. Q. Where it says it looks like it says ten thousand? A. Ten thousand gallons. Q. And if you continue to page through in the same area, you will see it says ten thousand dollars on the next page. A. Yes. Q. And then it says twelve. A. Twelve thousand. Q. And then it says ten thousand. A. Ten thousand, ten thousand and ten thousand. So we have seven pages, six of them 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 second from the top layer of drums, the best I remember. Q. You're talking about cell B-1 that had one thousand nine hundred and eighty drums? A. Yes. Q. And if those were each fifty-five gallon drums, then that's a hundred and eight thousand nine hundred gallons, although they are in drums so there's going to be some empty space? A. Yeah, around it, but the first cells, there wasn't a lot of now, if they didn't put as many drums and didn't get, you know if they had more room around there and didn't put as many drums in it, then you could put more bulk. Q. Do you remember with those early cells whether the drums were packed tightly together? A. Pretty much. Q. How much space would there be from
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20 (Pages 74 to 77)

21 (Pages 78 to 81)

r			
	Page 78		Page 80
1	Q. Half a foot, ten inches?	1	it legible.
2	A. Yeah, maybe that much. It was	2	Q. So you actually saw those
3	almost against the sides. We were trying to	3	initial
4	get as many drums in there as we could and he	4	A. Yeah.
5	dug the cell to as close in dimension as he	5	Q logs and you saw that they were
6	could and tried to get the walls straight and	6	smudged and dirty?
7	so there wasn't a lot of empty place to put	7	A. Right. And that's what I'm
8	anything.	8	wondering, you know, somebody made it legible
9	Q. But you remember being putting	9	and clean because when you're out there rolling
10	polyol in the first two cells in that narrow	10	drums off the stuff you get it was on a
11	space?	11	clipboard and they would get dog-eared.
12	A. Right.	12	Q. Was it always the same person
13	Q. Between the drums and the wall?	13	unloading the drums that would mark down on the
14	A. Right. And it was up at least to	14	clipboard the drum locations or was there ever
15	the third there's two layers of drums still	15	a different person doing it?
16	that weren't covered. We didn't run it up to	16	A. Okay. Charlie Goings started
17	the top.	17	doing that, but in running the backhoe he
18	Q. How many drums do you think it	18	couldn't verify you couldn't see the drum
19	took to empty to fill the space that remained	19	and so the guy on the ground, I think it was
20	in that cell after the drums were put in?	20	his son Rick that was helping him, would was
21	A. Let's see. Gosh, seemed to me	21	keeping the log and it was kept on a dipboard
22	like it was over two hundred, two hundred	22	and that's what I'm saying, he was marking them
23	twenty drums of polyol.	23	but now this one looks kind of close, that it
24		24	wasn't identified other than the row, the layer
25	(Pause in proceedings.) THE WITNESS: But the cells that are	24	
25		25	and it looks like see, something caved in
	Page 79		Page 81
1	filled up later, I don't know how close they got.	1	and it looks like those drums weren't there.
2	Q. So with regard to Exhibit 6, do	2	Q. You're looking at level four for
3	you think do you have any recollection of	3	Exhibit 6 which is cell A-2?
4	ten thousand gallons of polyol or of any bulk	4	A. Right. And this probably well,
5	waste being put in each level of a cell that	5	I don't know. That's a good question.
6	had seven levels?	6	Q. So when you count the number of
7	A. I tend to guess that because		horizontal marks across, is that actually the
8	they would fill the cell almost half full	8	number of drums in the row?
9	before we ever added when I was there before	9	A. Well, should be, but if the hole
	we added any bulk because otherwise you would	10	tapered, then this row would not exist and
10	be, you know, walking in the stuff and you	11	maybe this row didn't exist because of cave-ins
112	couldn't handle any drums if they skidded	12	or whatever (indicating).
13	around because I'm not sure if they meant that	13	Q. You mean maybe the first row would
	that's what they put in the cell or it just	14	have more drums in it than the subsequent
14			
15	doesn't make sense to have that much each	15	layers, the bottom layer would have the most
16	level. Now, if they came back later and did	16	drums or the least?
17	it that's a lot of bulk.	17	A. The least.
18	Q. Were the cell logs usually	18	Q. The least?
19	accurate?	19	A. If you do a super good job of
20	A. At well, that's what I was	20	square, then you would have the same number in
21	saying is what I remember seeing had smudges	21	every cell, but if you have a cave-in and you
22	and you know, when you're writing and you	22	have already got drums, you can't go digging
23	get stuff on, goo on your hands, and this looks	23	because you will hit the drums and break them,
24		24	so there would be places that there really
25	took his original copy and recopied it to make	25	they were going to put drums but they couldn't
1			

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1	Page 82	4	Page 84
1 2	because it wasn't big enough. O. Were there a lot of cave-ins?	12	remember
3	A. If you weren't careful where you	3	A. In fact, I don't remember them
4			burying anything out of five gallon buckets.
	unloaded the drums beside the cell, you would	4	Q. Do you remember what came in those
5	sit them down too close and you would cave in	5	five gallon buckets?
6	part of the wall.	6	A. We got some that had grease, wax,
7	Q. Now, did they use a dirt ramp to	7	some paint, paint sludge, used paint, paint
8	drive into the cell?	8	sludge.
9	A. No.	9	Q. Do you know where it came from?
10	Q. Did that happen later on at that	10	A. Paint sludge mostly was Inland.
11	time that you know of?	11	Worthington Cylinder had some paint sludge.
12	A. I didn't it was all set in	12	The Stolle Corporation had paint sludge. Those
13	there with the backhoe with this angle iron	13	were the bigger producers. Procter & Gamble a
14	framework that holds two drums at a time.	14	lot of times would have like you were talking
15	Q. How deep were the cells?	15	about, toothpaste, shampoo, their test samples,
16	A. Probably no more than twenty foot	16	they would be thrown in a five gallon bucket
17	because it's all that a backhoe could reach.	17	when the lab got done with them. They would
18	Q. So the backhoe had an arm that	18	pull one out for quality control and check it
19	could actually reach down twenty foot and lay	19	to do their test and then pitch it in a bucket
20	the drums down?	20	because we would usually dump them together
21	A. Right, fifteen, twenty foot, yeah.	21	into a five gallon drum.
22	Q. You don't remember any time that a	22	Q. Fifty-five gallon drum, you mean?
23	dirt ramp was used so they could drive the	23	A. Yeah, fifty-five gallon drum from
24	backhoe into the cell?	24	a five gallon.
25	A. No.	25	Q. Did that happen often that you
	Page 83		Page 85
1	Q. And throughout the time that you	1	would get that from Procter & Gamble?
2	worked there, did you always observe the	2	A. I'm guessing every four to six
3	placement of drums in the cells?	3	months they would send a state bed truck down
4	A. I would on my rounds checking on	4	there from the testing lab. It wasn't a large
5	the oil process, what the customer what they	5	quantity. They would have fabric softener,
6	are picking up, drivers are picking up, making	6	detergent, toothpaste, Crest, and shampoo.
	sure whether to unload it and stuff, I would go		Q. So would those buckets be filled
8	up there and see how they were coming, just	8	with a mixture of different miscellaneous
9	kind of make sure they were doing the safe way	9	substances?
10	and stuff, but I didn't there was nobody	10	
11	· · · · · ·	111	 A. No, they pretty much sorted it out.
11	except Charlie Goings and whoever was helping were picking up the drums and unloading them.	12	
	· • • •		Q. So there might be a bucket of
13	Q. Do you remember any waste in	13	toothpaste samples?
14	buckets being placed in the cells?	14	A. Toothpaste samples, another bucket
15	A. Occasionally we would get waste in	15	of shampoo, another bucket of fabric softener,
16	five gallon containers, but as far as I know	16	another bucket of detergent.
17	they didn't bury any of them.	17	Q. Is there any other generator that
18	Q. What did they do with them?	18	would send over five gallon buckets that you
19	A. Usually you put them together in a	19	recall?
20	drum.	20	
21	Q. Do you know whether the empty	21	Q. Do you remember any latex glue in
22	buckets might have been thrown in the cells?	22	bulk being disposed of in the cells?
23	A. I have no idea. I don't recall	23	A. When Inland makes their seat
24	that.	24	cushions, they will mold this piece and this
25	Q. The five gallon bucket that you	25	piece and then they put this latex glue to glue

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	Page 86		Page	88
1	the rounded piece to the straight pieces to	1	from Inland or not?	
2	make seats and that was normally in fifty-five	2	A. Inland and Roberts.	
3	gallon drums.	3	Q. It's okay if you don't remember.	
4	Q. Do you remember ever emptying	4	A. But it was yeah, it was in	
5	drums of latex glue in the same way you emptied	5	drums and it wasn't it was like a hundred	
6	drums of polyol into the cell?	6	and fifty, a hundred and sixty, something like	
7	A. I think so. I think so. It was	7	that, drums. It wasn't a huge amount.	
8	drummed over. I don't recall how many drums,	8		i
	• •		Q. Do you remember any bulk that	
9	but it was several that were poured in I think	9	would have been listed on the cell report as in	
10	the first or second cell.	10	tubs, tubs of some kind of bulk sludge? Do you	
11	Q. First cell was A-2 or the first	11	have any idea what tub would refer to?	
12	cell was A-1 and the second B-2. B-1 was the	12	A. I don't know if that's what they	
13	one where you said there was some paint from	13	are calling the it's like a thirty gallon	
14	the rusty drums?	14	it's about half a fifty-five gallon drum. Now,	
15	A. Yeah, and they poured some glues.	15	we've got some of those, but I don't	
16	Well, they say it was in drums.	16	remember I didn't know they buried any of	
17	Q. But this is the one we saw the	17	those because it would mess up your spacing.	
18	note in the corner that said ten thousand	18	Q. Where did those come from, those	
19				
	latex?	19	smaller tubs that you're talking about?	
20	A. That could have been I don't	20	A. It's just one customer.	
21	know.	21	Q. If I go through a list of	
22	Q. You testified it could have been	22	customers, do you think that would help you	
23	the paint from the rusty drums, but now you're	23	remember?	
24	saying it could have been glue?	24	A. It might.	
25	A. Well, they poured some glue. Man,	25	Q. Well, let's give it a try. Can't	
				_
	Page 87		-	e 89
1	I couldn't swear if it was the first or second	1	hurt, right?	e 89
2	I couldn't swear if it was the first or second cell. The latex from the paint was in the	2	hurt, right? A. It's been a day or two.	e 89
2 3	I couldn't swear if it was the first or second cell. The latex from the paint was in the second cell. I remember that. And they could	2 3	hurt, right? A. It's been a day or two. Q. Well, if you don't remember,	e 89
2 3 4	I couldn't swear if it was the first or second cell. The latex from the paint was in the second cell. I remember that. And they could have poured latex glue in with it if the volume	2 3 4	hurt, right? A. It's been a day or two. Q. Well, if you don't remember, that's perfectly fine. I don't want you to try	e 89
2 3 4 5	I couldn't swear if it was the first or second cell. The latex from the paint was in the second cell. I remember that. And they could	2 3	hurt, right? A. It's been a day or two. Q. Well, if you don't remember, that's perfectly fine. I don't want you to try to	e 89
2 3 4	I couldn't swear if it was the first or second cell. The latex from the paint was in the second cell. I remember that. And they could have poured latex glue in with it if the volume	2 3 4	hurt, right? A. It's been a day or two. Q. Well, if you don't remember, that's perfectly fine. I don't want you to try	e 89
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2 3 4 5 6	I couldn't swear if it was the first or second cell. The latex from the paint was in the second cell. I remember that. And they could have poured latex glue in with it if the volume adds up. Q. What would you expect the volume	2 3 4 5 6	 hurt, right? A. It's been a day or two. Q. Well, if you don't remember, that's perfectly fine. I don't want you to try to A. Yeah, just some of the little 	e 89
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23 (Pages 86 to 89)

24 (Pages 90 to 93)

	Page 90		Page 92
1	was Armco at the time in Newport, Kentucky,	1	the dried paint and everything. It was pretty
2	Inland Steel. We would get some of that	2	inert.
3	sometimes when Systech would get overloaded	3	Q. Was there more than one occasion
4	with too much acid waste and they would use	4	when stillbottoms were picked up from Systech
5	that to split the oil and water. I think that	5	and brought to Tremont?
6	was mostly the only thing we got from Systech.	6	A. I think so.
7	Q. Was there anything that you got	7	Q. You think it was more than five
8	from Systech that went into the barrelfill?	8	times while you were there?
9	A. Paint sludge when they were	9	A. Oh, no.
10	from their solvent reclamation process. They	10	Q. It was less than five times?
11	distilled the solvents out of the paint sludge	11	A. Yes.
12	and then we would water paint sludge. That's	12	Q. Do you think it was somewhere
13	the only thing I remember in barrels.	13	between one and five times?
14	Q. Is that what would be referred to	14	A. It may have been two because they
15	as stillbottoms?	15	would like I say, they would save it until
16		16	they had pretty close to a truckfull because
17	 A. Yes, that's the sludge that come out of the still. 	10	your pick up and delivery charge was the same
18	Q. Did that ever come in barrels?	18	whether you picked up one drum or fifteen so
19 20	A. Yes.	19 20	they would wait until they had pretty much a
	Q. Do you remember it ever coming in		truckfull. I wasn't aware of it being in boxes
21	anything that would be recorded as a box on the	21	though.
22	cell log?	22	Q. Do you know if it was ever picked
23	A. I don't know, unless they figured	23	up in lugger boxes or in roll-off boxes?
24	out later on figured out a way of driving it	24	A. I'm not aware of that. They
25	out where they could get the mostly just dry	25	probably could. I think there was well,
	D 01		Page 93
	Page 91		-
	sludge. It was little had some water in it,		they would have had to dumped it out of a still
2	but if they got if you do a real good job,	2	and poured it in there to get it in there.
3	then you opened up the bottom of the still and	3	Q. Did you ever go out to Systech to
	you get this big glob of goo out of there.	4	pick up waste?
5	Q. Do you remember any other	5	A. No.
6	generator of stillbottoms besides Systech?	6	Q. Do you know whether the waste, the
7	A. No, I don't remember anybody else	7	stillbottoms we're talking about, were dumped
8	reclaiming anything.	8	into drums at Systech?
9	Q. Do you remember how often you	9	A. Yes, that's the way that I
10	would get Systech stillbottoms?	10	remember it.
11	A. No, because they would kind of	11	Q. You remember it
12	save it up until they had a bunch of it or	12	A. You would get an open-head drum
13	something. That way they cut their costs so	13	that was sealed up.
14		14	Q. And what did the stillbottoms
15		15	consist of as far as their chemical component,
16		16	do you know?
17		17	A. Mostly dried paint. They would
18		18	cook it pretty good but if they put it in a
	A. It was I can't remember if they	19	roll-on and kept the roll-on covered, it
19			probably would day out to where it's not much
20	did it with the semi trailer truck or the small	20	probably would dry out to where it's not much
20 21	did it with the semi trailer truck or the small state bed truck about half as big as I I	21	of a sludge.
20	did it with the semi trailer truck or the small state bed truck about half as big as I I don't think it was a huge quantity. Came from		of a sludge. Q. Do you know whether that was done?
20 21 22 23	did it with the semi trailer truck or the small state bed truck about half as big as I I don't think it was a huge quantity. Came from the Franklin plant where they had the still and	21 22 23	of a sludge. Q. Do you know whether that was done? A. No. You said that they were
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l	Page 94		Page 9	6
1	Q. So that would make sense to you if	1	into well, it was a modified roll-on that	
2	they did do that?	2	was welded shut and then they would pump it,	
3	A. Yes. Because it's primarily dried	3	but they would check it to see what was in	
4	paint or glue. Whatever they were using the	4	there and try to leave let the trash sit out	
5	solvent for, it would be in there. There would	5	and make sure it was oil/water, not oil/water	
6	probably be some synthetic rubber if they were	6	solvent. If it was, then you had to pump it	8
7	reclaiming the toluene from Inland because they	7	back into the truck for incineration.	
8	used it to clean the neoprene off of motor	8	Q. Now, did it matter how much	
9	mounts and if they got a bad cast, they would	9	solvent was in with it as far as whether it	
10	cut the neoprene off and soak it in the toluene	10	would be acceptable or not acceptable?	
11	to get rid of all the rubber. And then once it	11	A. Well, if it was less than I would	
12	got pretty saturated, then they would dispose	12	say four or five percent, if it was less than	
13	of it. They called it neoprene solid and that	13	that, or it was just a little solid in there,	
14	would be taken to Systech and it was cheaper	14	then you could process if you had too much	
15	for them to recover it than for us to pay the	15	solvent, then your oil/water split won't work.	
16	incinerator. So I think that they were that	16	Q. So some oil/water waste with small	
17	neoprene solvent was taken to Systech for	17		
	• •		amounts of solvent were processed at the site?	
18	recovery. They were talking about doing that	18	A. Yeah.	
19	and I said that sounds like a good idea instead	19	Q. And can you quantify the	
20	of burning it, recover it and sell it back to	20	proportion of the oil/water processing that had	
21	Inland. Tony Cowen was he was pretty much	21	some solvents in it versus the waste that	
22	running that solid recovery.	22	didn't have solvents in it? Let me ask it a	
23	Q. At Systech?	23	different way. Was it very rare that that	
24	A. Yes. He was pretty successful at	24	would happen?	
25	it. He had the solvent recovery plant in	25	A. Yeah. Occasionally you would get	
		1		
				_
	Page 95		Page	97
1	Beavercreek, Patterson and Grange Hall. I	1	where somebody admits something else in there	97
2	Beavercreek, Patterson and Grange Hall. I called it a barrel factory but that's what it	2	where somebody admits something else in there but if you have got a chlorinated solvent in	97
2 3	Beavercreek, Patterson and Grange Hall. I called it a barrel factory but that's what it was doing, recovering solvent.	2 3	where somebody admits something else in there but if you have got a chlorinated solvent in there, it wouldn't all go away, you would still	97
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25 (Pages 94 to 97)

26 (Pages 98 to 101)

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	Page 98		Page 100
1	there, but most of the oil/water is from a	1	something you can't do something with. So
2	machining operation and it didn't have a lot of	2	usually you would process one. If it went
3	solvent but the small generators were the	3	fine, get it out of there, get the waste out of
4	biggest problem because here's a fifty-five	4	there and then put something else in there.
5	gallon drum and I got this two gallons of	5	You get in trouble when you start mixing things
6	stuff oh, here we go.	6	and assuming that they are all compatible and
7	Q. And they would just dump the	7	all this.
8	bucket or container, whatever it was, right	8	Q. So you processed each batch at a
9	into the drum?	9	time separately from the next batch?
10	A. Where they were dumping all their	10	A. Yes.
11	coolant from the tool machines and somebody had	11	Q. And did you have to clean out the
12	this bucket of solvent that he was cleaning	12	tanks or the boxes in between each batch?
13	something off and dump it in there.	13	A. Well, John
14	Q. Now, when oil/water was picked up	14	Q. Budding?
15	from generators, were vacuum trucks used to	15	A. Yeah. He was the one that did
16	pick up oil/water?	16	that.
17	A. Generally, yes.	17	Q. He cleaned out the tank?
18	Q. What other kind of trucks were	18	A. Yeah, he ran the oil/water
19	used?	19	separation. He was pretty conscientious and he
20	A. If it was in fifty-five gallon	20	always if he smelled something funny, he'd
21	drums, they normally get pumped out, it would	21	come and ask me what I thought it was before he
22	be in a four thousand or six thousand gallon	22	did something with it because these tanks up
23	vacuum truck. Or if there was a lot of it, it	23	here at thirty thousand gallons and you're
24	would be done with a semi that had the pumper	24	putting oil in there and if it doesn't smell
25	on the back of it and it would be blown into a	25	right or look right, then don't put it in there
1	gravity bottom tank where all the stuff	1	and ruin the whole thing so you made sure that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 would you just run it out into your holding tank to see what it was. Q. Now, if there were generators of smaller volumes of oil/water or of coolant waste or whatever with the end of their manufacturing process like you were just referring to, would that be picked up along with other oil/water waste from other generators and mixed together or were the generators' wastes kept separate? A. Normally it would be separate. I can't think if they ever I think normally they would just go to one generator and bring it back to the plant. Q. And once it was brought back to the plant and it was processed, would oil/water from different generators be mixed together in the process? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 anything funny or unusual, he would usually come down and ask me what I thought it was. Q. What kind of funny or unusual substances? A. Oh, it would change colors. Instead of being it would have a reddish color to it or kind of it wouldn't look like, you know, clear oil. Have a bluish color if it was motor oil. Motor oil you had to track with sodium hydroxide so you had to process that different than you would cutting oil. And the synthetics, that's something else. They are organics are not really boiled. It's a coolant. Q. So after the oil and water were separated and removed, was there something left that was a waste product at the end of the
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	Page 102		Page 104
1	in a drum.	1	Q. The trash from the
2	Q. So you're talking about the first	2	preprocessing
3	tank that it would be pumped into from the	3	A. Right.
4	truck?	4	Q step.
5	A. Right.	5	
6			A. I think it depended on what it
	Q. You're calling that the	6	was. If there were heavy metals in it that
7	preprocessing tank?	7	were soluble, then it had to be drummed up and
8	A. Right, where you find out what you	8	taken up to Bay City. They would have a
9	got and then decide what to do with it.	9	conveyor and they would lay the whole drum on
10	Q. So that trash or that leftover	10	there and it (indicating), went to the
11	material, what did that consist of?	11	incinerator.
12	A. It was usually rags, gloves, just	12	Q. At Tremont?
13	trash. Grease. It would be kind of a gooey,	13	A. No. No.
14	greasy mess, but it usually took several drums	14	Q. At Bay City?
15	before I mean, it would take quite a bit of	15	A. Yeah, Bay City, Michigan. They
16	time before you finally got a drum full of it.	16	would incinerate just about anything.
17	It was usually no more than three or four	17	
18			Q. So moving on from the
	gallons of sludge, junk, trash.	18	preprocessing tank that we've discussed, after
19	Q. And did you always put that in a	19	the oil/water was fully separated and had gone
20	drum?	20	through all stages of that process until the
21	A. Usually.	21	end, was there any by-product other than oil
22	Q. What else would you do with it	22	and water that had to be disposed of at the end
23	besides putting it in a drum?	23	of that process?
24	A. They had a they finally started	24	A. No. The well
25	putting it instead of a drum in a small like	25	(Thereupon, the Court Reporter
	Page 103		Page 105
1	dumpster, you know, maybe a six yard four to	1	interrupted the proceedings.)
2	dumpster, you know, maybe a six yard four to six yard dumpster because they could sit that	2	interrupted the proceedings.) (Pause in proceedings.)
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27 (Pages 102 to 105)

	Page 106		Page 108
1	to be incinerated.	1	A. Oh, boy. It was mostly trash,
2	Q. Was it tested for PCB's?	2	very little water because they kept it covered
3	A. Only the oil that we got that was	3	so it didn't get rainwater in it. And it
4	transformer oil was the only thing that we ever	4	was there was probably some grease and oil
5	checked on PCB's. When you run the GC for	5	that was mixed in with the trash, but for the
6	chlorinated solvents, PCB's would tend to show	6	most part it was just debris. You probably had
7	•	7	
	up a little later because it's a big heavy	-	some oil stick to it but it wasn't other than
8	molecule so it would come show up later but it	8	kind of greasy, gooey mess.
9	would show up as chlorinated solvents. If it	9	Q. Do you remember any other
10	had a lot of them but the only one that	10	generators of polyol besides Inland?
11	really had a lot of PCB's was the transformer	11	A. No. That was they were the
12	oil and they knew it was it was a PCB. It	12	big sponge rubber thing. Now, there was some
13	was aerocore or something they called it and	13	other companies that fabricated things with
14	it's chlorinated solvent so it's nonflammable.	14	sponge rubber but it was mostly what we got
15	Q. How long would it take to generate	15	from them was adhesives where they cut it up
16	enough of that sludge or solids in the hopper	16	and glued it together and that's what they
17		17	cleaned out of their machines and stuff.
	to have to remove it from the hopper?		
18	A. I would say it would take probably	18	Q. Was there any cyanide waste
19	four to six months before it would get full.	19	disposed of in that cell?
20	Q. Was that something that had to be	20	A. Oh, no, not that I know of.
21	scraped out or could you pump it out?	21	Cyanide you had to haul to Preston to have it
22	A. No, you couldn't pump it out. You	22	chlorinated.
23	had to dump it or pick it up and shovel it over	23	Q. Was there any waste that might
24	and take a hoe and scrape it into a drum.	24	have contained any amounts of cyanide, even
25	Q. Did you assist with that or you	25	trace amounts that was buried in the cells?
	Page 107		Page 109
1	Page 107	1	Page 109
1	just saw other people doing it?	1	A. If you would detect cyanide, if
2	just saw other people doing it? A. Yeah, just saw them. They would	2	A. If you would detect cyanide, if any of the TDI or toluene diisocyanate, if
2 3	just saw other people doing it? A. Yeah, just saw them. They would bring us a sample to test. About every so	2 3	A. If you would detect cyanide, if any of the TDI or toluene diisocyanate, if there was some of that that was mislabeled
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28 (Pages 106 to 109)

29 (Pages 110 to 113)

1	Page 110		Page 112
1	was labeled polyol and it was a load they got	1	them the heavier drums I helped them roll
2	the day before and they were going to add to it	2	them over onto the frame on the backhoe.
3	so I didn't have a chance to check the drums to	3	Q. You mean in the yard?
4	make sure.	4	A. Yeah. Well, at the cell we would
5	(Thereupon, the Court Reporter	5	take them off with a forklift and set them down
6	interrupted the proceedings.)	6	on the ground and then you had to dump them
7	Q. Do you remember any pallets being	7	over and if it was sitting on the dirt like
8	put in the cells with the drums?	8	this (indicating) and the frame is here,
9	A. The first cell they did, they	9	sometimes it's more than what one guy could do
10		10	so if I was up there checking to see how they
11	bottom trying to level it up so the drums would	11	were coming, I would help him roll them over
12		12	onto the backhoe to sit down in there to dump
13		13	them out.
14		14	Q. So it took actual men to get the
15		15	drums onto the backhoe?
16		16	A. Yes.
17	• •	17	Q. To get them down in there?
18		18	A. Yes.
19		10	
			Q. Were you as a chemist at the site,
20	- , ,	20	did you direct which cells or which drums were
21		21	going to go into which cells?
22		22	
23		23	Q. Did the
24		24	A. We sorted them out by what they
25	Q. If the barrel log said that	25	were and these are drums that you can put in
	Page 111		
			Page 113
1	Page 111 certain number of pallets were dumped in the		Page 113 the cell and these are drums you can't that
1	certain number of pallets were dumped in the	1	the cell and these are drums you can't that
2	certain number of pallets were dumped in the cells, what would that indicate to you? Why	1 2	the cell and these are drums you can't that we're going to have to haul off or process some
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	Page 114		Page 116
1	will repeat himself, but we will try to get to the	1	you put them in the cell?
2	last few questions as long as the equipment is	2	A. No, they would leak when you
3	working.	3	turned it over to put it on the backhoe and
4	Q. You were just saying, Mr. Hill,	4	then you would have to tighten it up to where
5	with how the drums were in the yard and they	5	it was not leaking.
6	would be taken to the cells?	6	Q. So then did that mean waste would
7	A. Right. It's my guess that you	7	collect in the backhoe that had to be washed
8	take the path of least resistance, so you come	8	out or scooped out?
9	in, get the first row, get them up there and	9	A. No, it was an angle iron frame and
10	then go down and go to the next row or actually	10	there's nothing to catch it except whatever
11	there's probably two or four rows of one thing	11	leaked on the metal. There was no bottom to it
12	and that's why the log has got different	12	or anything. It was just angle iron and then
13	things, depending on how many you have got	13	the drum was between the two pieces of angle
14	stacked up when you start burying them as to	14	iron and it had a small angle iron lip so it
15	how many you will have in that cell.	15	wouldn't roll off while you were lowering it
16	Q. So that's why the log shows	16	until you dumped it off.
17	certain types of wastes grouped together in	17	Q. So anything that leaked would just
18	rows?	18	leak onto the ground, is that correct?
19	A. Probably because that's where they	19	A. Yeah. Yeah. And usually it
20		20	•
	got them. If I was going down there I wouldn't		wasn't very much because, like I say, tighten
21	pick up one drum from here and then drive and	21	the drum the problem is when you sample it,
22	pick up a drum from here (indicating).	22	whoever sampled the drum to bring it in, a lot
23	Q. You would try to take them in	23	of times you would stick a clear plastic PVC
24	groups you're saying?	24	pipe and then put your thumb over it to bring
25	A. Right. Because that's the easier.	25	it up and drop it in a jar. And then you're
-	Desc 115		Page 117
	Page 115 You got a forklift. You pick the drum up and	1	supposed to tighten the drum back down tight
1	set it on a cart and go back and once you get		and that didn't always get done, so when you
		3	turn it you will notice something leaking and
3	that, you move over and you start picking up		
4	other drums and putting them on there.	4	you tighten it up and it quit.
5	Q. What type of drums do you remember	5	Q. What about drums that were sorted
6	being put in cells as far as material?	6	in the yard to be sent off site that couldn't
7	A. Drums of paint sludge	7	be buried in the cells, was there ever any
8	Q. Actually let me just interrupt	8	leaking from those drums?
9	you. Maybe I wasn't clear enough. I mean	9	A. The only time I recall anything
10	metal drums versus other types of drums. Do	10	ever spilling was when the guy putting the
11	you remember anything other than metal drums?	11	forklift, setting the drums in there and he
12		12	backs out and turns
13	• •	13	Q. Hits the drums?
14		14	A and hit a drum, and then we
15		15	would have a mess to dean up.
16		16	Q. Was that in the yard?
17	•	17	A. Yeah.
18		18	Q. How often did that happen?
19	• •	19	A. I would say two or three times a
20		20	year.
21	· -	21	Q. Do you remember what the
22		22	substances were that spilled?
23		23	A. One was was a paint thinner I
24		24	think of some sort, had acetone in it because
25	occasion where the drums would be leaking after	25	we had to shovel a bunch of dirt up to get that
		- F	

30 (Pages 114 to 117)

	Page 118		Page 120
1	all in a fifty-five gallon drum?	1	think that happened?
2	Q. Did the entire drum spill on that	2	A. If I can remember where they
3	occasion?	3	put the flammable solvents, he was not
4	A. Not the entire. He hit it about	4	messing with it. It was in a row and it was
5	this far off the ground (indicating) and it	5	just stored and it was probably it was in
6	shot out.	6	the first or second section, probably in here
7	Q. You're indicating about six inches	7	(indicating).
8	off the ground?	8	Q. Why don't you put an X. You're
9	A. Okay, yeah, about six inches off	9	marking a green X in the drum yard with a
10	the ground. When he was backing up the fork	10	circle around it where you think that happened?
11	hit the side of the drum and it come spraying	11	A. Yeah, because the flammables would
12	out and he jumped off the forklift, went over	12	have to be taken you can pull the tanker
13	and pushed it down so the hole was up and, I	13	truck in and get to them without having to get
14	don't know, maybe ten or fifteen gallons may	14	way back into the yard so you could pull it up
15	have sprayed out and he had to shovel up all	15	
			and pump them or generally they would save
16	that dirt and put it in an open-head drum to	16	them in the drums until they got enough to make
17	incinerate it.	17	a six thousand gallon tank load to Bay City or
18	Q. Does acetone contain solvents?	18	Fremont, Fremont? Yeah.
19	A. Acetone is a solvent.	19	Q. Do you know whether any dumping in
20	Q. So that's not something you would	20	the barrelfills took place at night?
21	want to leave on the ground?	21	A. If it did, it would be hard
22		22	because there were no lights. You would be
23		23	doing it with a flashlight and I wouldn't do it
24		24	standing over the hole in the dark.
25	it's mostly acetone and probably some alcohol,	25	Q. So you just recall it taking place
	Dece 110		Dogo 121
	Page 119	1	Page 121
1	ethanol or methanol.	1	during the day?
2	ethanol or methanol. Q. Do you recall any of the other	2	during the day? A. Right. Right. Because it would
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	Page 122		Page 124
1	next day, they would usually have somebody come	1	Q. So going back to the question of
2	back in and help him unload the truck so it	2	where sludge might have been generated on site,
3	would be ready to go the next day, but most of	3	can you think of anything?
4	the time they had several trucks and so they	4	A. Not generated, but picked up. In
5	could just drop the trailer and pick up an	5	the garage we had some square pans that they
6	empty trailer and go on. But there was only	6	put underneath if you went to a generator
7	two flatbed trailers so they had to have one	7	and sucked out a tank and it wound up that
8	unloading if they were going to use it the next	8	after driving back to the plant it settled out,
9	day, but most of the time the tank trucks and	9	this big round tank is flat on top and then the
10	stuff, if the driver came in with oil/water at	10	sides, it's like a cone that funnels down and
11	7:00, picked it up over in Indiana or	11	that's where your valve is, and the sludge
12	something, he would put it in the preprocessing	12	would get down in there and then you can't get
13	tank and then go park his truck so he would be	13	anything out and so you would have to put a
14	ready to go in the morning. But that's the	14	hose in through the lid, suck all the liquid
15	only activity I can recall at night.	15	out and then take the valve apart and dig the
16	MS. WOLFE: Let's just take a few	16	goo or whatever out into a pan and then put it
17	minutes off the record and then I'll come back on	17	in a drum.
18	and wrap it up.	18	Q. How often did those tanks have to
19	(Pause in proceedings.)	19	be cleaned out in that fashion?
20	Q. Mr. Hill, do you remember any	20	A. If a driver was careful when he
21	other process that might have taken place at	21	was sucking it out of the generator's tank, he
22	the site that would generate sludge that would	22	could feel the and know and pull it up
23	be dumped in the barrelfill cells?	23	higher.
24	A. I can't think of anything that	24	Q. Feel the pull from the gunk at the
25	would be dumped.	25	bottom starting to pull on the pump?
25	would be dumped.	25	bottom starting to pull on the pump:
	Page 123		Page 125
	Page 123 O Well why don't we start with	1	Page 125 A. Not the ounk in the bottom. The
1	Q. Well, why don't we start with	1	A. Not the gunk in the bottom. The
2	Q. Well, why don't we start with whether you can think of any sludge that was	2	A. Not the gunk in the bottom. The stuff he's sucking out of the tank, if he's
2 3	Q. Well, why don't we start with whether you can think of any sludge that was generated on site. I know we've talked about	2 3	A. Not the gunk in the bottom. The stuff he's sucking out of the tank, if he's getting a lot of well, it's like a vacuum
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2 3 4 5	Q. Well, why don't we start with whether you can think of any sludge that was generated on site. I know we've talked about the preprocess. A. The oil process, yeah.	2 3 4 5	A. Not the gunk in the bottom. The stuff he's sucking out of the tank, if he's getting a lot of well, it's like a vacuum cleaner. If you have got this hose going across there, as soon as it hits a piece of
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32 (Pages 122 to 125)

33 (Pages 126 to 129)

	Page 126		Page 128
1	or not.	1	A. Yeah. In fact two of the tanks
2	Q. Was it always tested?	2	that were we had two roll-ons at the Lagonda
3	A. As far as I know. They may or may	3	site where we were processing oil/water and
4	not have.	4	they built two new ones and got the boiler
5	Q. Was that your job?	5	going. Then they moved the two process tanks
6	A. No.	6	from Lagonda out there. They had IWD Solid
7	Q. Whose job was it?	7	Waste pick them up and carry them out there for
8	A. Well, okay, to test it, but I	8	us.
9	would test. When it would get real full, they		
10		9	Q. Do you know exactly when the oil
	would sample it and bring it down to the lab	10	separation process started at Tremont though,
11	and then we would check it. I don't they	11	was it do you remember if that had been
12	were supposed to kind of sample it, you know,	12	going on for a long time when you started there
13	not just this corner, but maybe this one and	13	or if it was a new process?
14	the middle to try to see what all is there and	14	A. No, it was new out there, but it
15	would generally check it for solvents and if it	15	was being done over on Lagonda site. They
16	was a good volatile solvent, but if it was	16	had were processing oil/water at the Lagonda
17	it would usually evaporate if there's any of	17	site man, that was at least I would say four
18	that, but the grease and oily mess, that	18	months before we started out at Tremont. They
19	usually stayed, but normally we didn't find	19	built the maintenance building and then they
20	any I can't even be sure if we have ever	20	started working on the pads to do the oil/water
21	found any metals in it.	21	process and that was while that was going on
22	Q. We were talking earlier about when	22	they were keeping the trucks out there and
23	you started at the Tremont site and we agreed	23	stuff and I was still over at the Lagonda until
24	that it was somewhere in 1976.	24	they moved the oil/water process from there
25	A. Yeah.	25	because we were still doing the lab tests on it
1		1	
		1	
	Page 127	1	Page 129
1	Page 127 Q. Does that sound about right?	1	Page 129 during the building. Then they moved the
2		1 2	during the building. Then they moved the process and John started going out there and
	Q. Does that sound about right?		during the building. Then they moved the process and John started going out there and then they I was I had set up a lab on the
2	Q. Does that sound about right? Well, you were there for	2	during the building. Then they moved the process and John started going out there and
2 3	Q. Does that sound about right? Well, you were there for A. I was there when I left when	2	during the building. Then they moved the process and John started going out there and then they I was I had set up a lab on the side of the boiler room building and where the boiler and coalescer tanks were.
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	Page 130		Dage 122
1	Q. And was that disposed of in the	1	Page 132 sludge?
2	barrelfill?	2	A. Yeah, so we didn't process any.
3	A. Don't know,	3	It was a good idea that you take a sulfuric
4	Q. You don't know?	4	acid waste and use it and then you take this
5	A. I know that they picked it up from	5	
6	Drackett,	6	sodium hydroxide waste, but when you put the
		7	two together all this sludge is created, this
8	Q. How about from Kiser Aluminum, do		iron oxide, aluminum oxide, aluminum carbonate.
	you remember that?	8	Q. Was that sludge disposed of at
9	A. That was sodium hydroxide.	9	Tremont?
10	Q. Aluminum hydroxide?	10	A. I think they put it in fifty-five
11	A. Okay. You take sodium hydroxide	11	gallon drums and I'm not sure where they hauled
12	and you stick aluminum down it in, it comes out	12	it to. Might have gone to Bay City or
13	shiny. Well, what it produces is aluminum	13	someplace else. Not real sure. It could have
14	hydroxide. That's the sludge that settles out.	14	been did it list it as being buried?
15	There was some of that and what they were doing	15	Q. Do you remember any copper chrome
16	with it, it was a to neutralize the sulfuric	16	carbonated sludge from Square D in Oxford?
17	acid from the oil/water split. We were adding	17	A. Yeah. It was from their plating
18	it to that and okay, that would be another	18	waste where have they plating, they did chrome
19	where you wound up with a lot of sludge but it	19	plating for switchboxes and things and it was
20	wasn't a process the sulfuric acid was	20	mostly copper sulfate. That went up to Fremont
21	loaded with iron oxide and the aluminum or the	21	to be deep welled. It wasn't really a sludge
22	sodium hydroxide was loaded with aluminum. In	22	so much as it was a kind of a liquid, but they
23	fact, they got it in a tank car.	23	were hauling it to up to Fremont for deep well
24	Q. Was that from Kiser Aluminum or	24	injection because it had heavy metals in it.
25	from Drackett that you're recalling now?	25	MS. WOLFE: Okay, Mr. Hill. I think
}	· · ·		
	Page 131		Page 133
	A. Okay, Drackett was dry sludge and		that will do it for now. I don't have any other
2	they would add enough water to where they could	2	questions for you right now. I don't know if any
3	pump it.	3	of the other attorneys do.
4	Q. And let's just talk about the	4	MR. BROWN: I have some follow-up.
5	Drackett material, the Drackett sludge. They	5	CROSS-EXAMINATION
6	would pump it and then bring it to Tremont?	6	BY MR. BROWN:
7	A. Yeah, and I think they transferred	7	Q. Mr. Hill, I'm Dan Brown and I'm
8	it to fifty-five gallon drums and let it dry	8	here on behalf of Systech Environmental
9	out again and then I'm not sure where it was	9	Corporation and so my interests really are
10	disposed of.	10	geared toward some of the things that you said
11	Q. Do you know whether any of that	11	regarding Systech, especially your previous
12	sludge was dumped in the cells in bulk?	12	employment at Systech or Systems one of the
13	A. I don't know for sure.	13	Systech companies, so I want to go back and see
14	Q. What was the waste that you	14	if I can get the timeline a little bit better
15	remember from Kiser Aluminum?	15	on when you worked for Systech. You said you
16	A. Okay. When you neutralize the	16	worked for Systems Research Lab from '66 to
17	sulfuric acid, all of a sudden all this rust	17	sometime in early '70s, is that right?
18	drops out of it and all the aluminum drops out	18	A. Right.
19	of the sulfuric acid and then you have got	19	Q. And you told us that you were
20	water.	20	working at the base on a couple different
21	Q. So those are metals that drop out?	21	contracts?
22	A. Right, they precipitate and you	22	A. Right. I started July of '67
23	got this solid sludge and you got a bunch of	23	or '67, and I was with Systech
24	it.	24	Q. You were with SRL from July of '67
25	Q. And there was a lot of that	25	
		1	

34 (Pages 130 to 133)

	Page 134		Page 136
1	A. It was summer when I switched to	1	urethane foam, but instead of being bubbles of
2	Systech. Do you know when Systech built their	2	carbon dioxide it was bubbles of hydrogen
3	building on Valley Road?	3	cyanide because they had pumped cyanide waste
4	Q. You just tell me what you can tell	4	in there and were trying to add TDI to it but
5			
	me.	5	that was a drum of polyol that was labeled TDI
6	A. Was that because right after I	6	and it wasn't so it got in there with the
7	started, they built that building.	7	catalyst and reacted.
8	Q. Right after you started with	8	Q. And that was a mislabeled drum
9	A. Systech. I switched from SRL to	9	from Inland, you say?
10	Systech, they built the office building on	10	A. All right.
11	Valley Road. And I was they didn't have a	11	Q. So that kind of explains what you
12	lab there so I was working out of the Franklin	12	were trying to say about the one time that you
13	plant. They had purchased the or leased the	13	saw
14		14	
	old waste treatment plant in Muskegon, Michigan		A. Right, a mix-up. That was labeled
15	and then shortly after that they had the waste	15	wrong.
16	treatment plant in Hillard or no, the other	16	Q. Now, can you ballpark how many
17	way around. They had the Hillard plant before	17	months or years after that incident occurred
18	they had the Muskegon plant. And about the	18	that you left Systech?
19	time I left they had just been putting in the	19	A. It was less than a year.
20	solvent distillation, the solvent recovery	20	Q. And then you went right from
21	building, so whatever they would probably	21	Systech to IWD Liquid?
22	know when those were. Tim Cates was the plant	22	A. IWD Liquid Waste, yes. And that
23	manager at Franklin.	23	was within, I would say three or four months of
24	O. Cates with a C or a K?	24	IWD Liquid Waste starting. Jack Wright was
25		25	
25	A. C, I believe. C A T E S.	25	driving the truck kind of with customers.
	Page 135		Page 137
	Page 135 O So you were at Franklin the entire	1	Page 137 O So you left Franklin and went to
1	Q. So you were at Franklin the entire	1	Q. So you left Franklin and went to
2	Q. So you were at Franklin the entire time?	2	Q. So you left Franklin and went to IWD Liquid at the what was the name of the
23	Q. So you were at Franklin the entire time? A. Except when Tony took me up to	2 3	Q. So you left Franklin and went to IWD Liquid at the what was the name of the street there, Lagonda location?
2 3 4	 Q. So you were at Franklin the entire time? A. Except when Tony took me up to Hillard to help them with the their 	2 3 4	 Q. So you left Franklin and went to IWD Liquid at the what was the name of the street there, Lagonda location? A. Yeah, it's dose to Lagonda.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q. So you were at Franklin the entire time? A. Except when Tony took me up to Hillard to help them with the their operation. Q. And you meant Tony Cowen. A. Cowen, right. Q. Earlier I think right as the computer was crashing you said that something had happened and Tony and that's when you stopped talking. So do you remember A. That was when Tony's son and his friend were killed cleaning that trailer out. Q. Were you working in Franklin when that accident occurred? A. Yes. You were working there at that time? A. Yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q. So you left Franklin and went to IWD Liquid at the what was the name of the street there, Lagonda location? A. Yeah, it's close to Lagonda. Q. Lagonda Road? A. Lagonda Avenue, I believe. It goes right by Robbins & Myers. We were on a little side street there right next door to Graff Hardware. Q. So when you said that you left near in time to when Systech started their solvent recovery process, did you take part in designing that process in any way? A. No. Tony did all that. Q. And you just kind of knew about it because you worked there? A. Right. Right. Q. Did you work in the wastewater treatment part of the Franklin facility?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. So you were at Franklin the entire time? A. Except when Tony took me up to Hillard to help them with the their operation. Q. And you meant Tony Cowen. A. Cowen, right. Q. Earlier I think right as the computer was crashing you said that something had happened and Tony and that's when you stopped talking. So do you remember A. That was when Tony's son and his friend were killed cleaning that trailer out. Q. Were you working in Franklin when that accident occurred? A. Yes. Q. Do you remember when that was? You were working there at that time? A. Yes. Q. And were you trying to explain something about the process that happened at 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. So you left Franklin and went to IWD Liquid at the what was the name of the street there, Lagonda location? A. Yeah, it's dose to Lagonda. Q. Lagonda Road? A. Lagonda Avenue, I believe. It goes right by Robbins & Myers. We were on a little side street there right next door to Graff Hardware. Q. So when you said that you left near in time to when Systech started their solvent recovery process, did you take part in designing that process in any way? A. No. Tony did all that. Q. And you just kind of knew about it because you worked there? A. Right. Right. Q. Did you work in the wastewater treatment part of the Franklin facility? A. Okay. Okay. What are you deeming the wastewater treatment? Because Franklin had
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. So you were at Franklin the entire time? A. Except when Tony took me up to Hillard to help them with the their operation. Q. And you meant Tony Cowen. A. Cowen, right. Q. Earlier I think right as the computer was crashing you said that something had happened and Tony and that's when you stopped talking. So do you remember A. That was when Tony's son and his friend were killed cleaning that trailer out. Q. Were you working in Franklin when that accident occurred? A. Yes. Q. Do you remember when that was? You were working there at that time? A. Yes. Q. And were you trying to explain something about the process that happened at time? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. So you left Franklin and went to IWD Liquid at the what was the name of the street there, Lagonda location? A. Yeah, it's dose to Lagonda. Q. Lagonda Road? A. Lagonda Avenue, I believe. It goes right by Robbins & Myers. We were on a little side street there right next door to Graff Hardware. Q. So when you said that you left near in time to when Systech started their solvent recovery process, did you take part in designing that process in any way? A. No. Tony did all that. Q. And you just kind of knew about it because you worked there? A. Right. Right. Q. Did you work in the wastewater treatment part of the Franklin facility? A. Okay. Okay. What are you deeming the wastewater plant across the road from us and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. So you were at Franklin the entire time? A. Except when Tony took me up to Hillard to help them with the their operation. Q. And you meant Tony Cowen. A. Cowen, right. Q. Earlier I think right as the computer was crashing you said that something had happened and Tony and that's when you stopped talking. So do you remember A. That was when Tony's son and his friend were killed cleaning that trailer out. Q. Were you working in Franklin when that accident occurred? A. Yes. Q. Do you remember when that was? You were working there at that time? A. Yes. Q. And were you trying to explain something about the process that happened at that time? A. Right. They had mixed up a drum 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. So you left Franklin and went to IWD Liquid at the what was the name of the street there, Lagonda location? A. Yeah, it's dose to Lagonda. Q. Lagonda Road? A. Lagonda Avenue, I believe. It goes right by Robbins & Myers. We were on a little side street there right next door to Graff Hardware. Q. So when you said that you left near in time to when Systech started their solvent recovery process, did you take part in designing that process in any way? A. No. Tony did all that. Q. And you just kind of knew about it because you worked there? A. Right. Right. Q. Did you work in the wastewater treatment part of the Franklin facility? A. Okay. Okay. What are you deeming the wastewater plant across the road from us and a a solid waste. What we were doing was
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 Q. So you were at Franklin the entire time? A. Except when Tony took me up to Hillard to help them with the their operation. Q. And you meant Tony Cowen. A. Cowen, right. Q. Earlier I think right as the computer was crashing you said that something had happened and Tony and that's when you stopped talking. So do you remember A. That was when Tony's son and his friend were killed cleaning that trailer out. Q. Were you working in Franklin when that accident occurred? A. Yes. Q. Do you remember when that was? You were working there at that time? A. Yes. Q. And were you trying to explain something about the process that happened at that time? A. Right. They had mixed up a drum of TDI that was labeled polyol and it got 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 Q. So you left Franklin and went to IWD Liquid at the what was the name of the street there, Lagonda location? A. Yeah, it's dose to Lagonda. Q. Lagonda Road? A. Lagonda Avenue, I believe. It goes right by Robbins & Myers. We were on a little side street there right next door to Graff Hardware. Q. So when you said that you left near in time to when Systech started their solvent recovery process, did you take part in designing that process in any way? A. No. Tony did all that. Q. And you just kind of knew about it because you worked there? A. Right. Right. Q. Did you work in the wastewater treatment part of the Franklin facility? A. Okay. Okay. What are you deeming the wastewater plant across the road from us and a a solid waste. What we were doing was processing the water from the waste and pumping
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. So you were at Franklin the entire time? A. Except when Tony took me up to Hillard to help them with the their operation. Q. And you meant Tony Cowen. A. Cowen, right. Q. Earlier I think right as the computer was crashing you said that something had happened and Tony and that's when you stopped talking. So do you remember A. That was when Tony's son and his friend were killed cleaning that trailer out. Q. Were you working in Franklin when that accident occurred? A. Yes. Q. Do you remember when that was? You were working there at that time? A. Yes. Q. And were you trying to explain something about the process that happened at that time? A. Right. They had mixed up a drum of TDI that was labeled polyol and it got 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. So you left Franklin and went to IWD Liquid at the what was the name of the street there, Lagonda location? A. Yeah, it's dose to Lagonda. Q. Lagonda Road? A. Lagonda Avenue, I believe. It goes right by Robbins & Myers. We were on a little side street there right next door to Graff Hardware. Q. So when you said that you left near in time to when Systech started their solvent recovery process, did you take part in designing that process in any way? A. No. Tony did all that. Q. And you just kind of knew about it because you worked there? A. Right. Right. Q. Did you work in the wastewater treatment part of the Franklin facility? A. Okay. Okay. What are you deeming the wastewater plant across the road from us and a a solid waste. What we were doing was

35 (Pages 134 to 137)

	Page 138		Page 140
1	part, not the Franklin Municipal Waste.	1	A. Um-hum.
2	Q. Right, I understand there were two	2	Q and the Exhibit Number 2, if we
3	separate facilities.	3	put these side-by-side, I just want to make
4	A. Right.	4	sure, are we looking at it the same way
5	Q. And do you remember a distinction	5	(indicating)?
6	between a company called Systems Technology	6	A. Exactly.
7	Corporation as opposed to Systech?	7	Q. And when I'm looking at
8			
	A. Tom and Mel had an engineering	8	Plaintiff's Exhibit Number 2, kind of in the
9	company where they did environmental	9	upper left corner would have been the northwest
10	engineering stuff and Systech was the waste	10	corner of the barrelfill site?
11	treatment process I thought. Is that	11	A. Right.
12	Q. Tom and Mel being do you know	12	Q. All right. And then the same
13	either of their full names?	13	thing on Plaintiff's Exhibit Number 3, at the
14	A. Tom Whitman and Mel is the	14	top left corner would be the northwest corner
15	vice-president. Gosh, I didn't see him very	15	of the site?
16	much. Tom was the one that pretty much Tom	16	A. If you're calling this the top
17	and Tony Cowen. Tony had got together with Tom	17	(indicating).
18	and promoted the idea of processing the waste.	18	Q. Top left.
19	Q. Now, earlier you said something	19	A. Numbers are getting
20			Q. But if I look at it this way
	about Tony Cowen and then you said something	20	• •
21	about Beavercreek?	21	(indicating)?
22	A. Okay, he	22	A. Yes, that's exactly right.
23	Q. I just want to be clear. Was the	23	Q. So cell number A-1 is in the
24	Beavercreek location you were talking about,	24	northwest corner, top left, as we look at it?
25	was that a Systech location or something else?	25	A. Right.
		 	
	Page 139		Page 143
1	A. No, absolutely not.	1	Page 143 Q. And it appears that the cells are
1	A. No, absolutely not.	1	Q. And it appears that the cells are
2	A. No, absolutely not.Q. Do you remember what that was?	2	Q. And it appears that the cells are numbered one, two, three I'm sorry, A, B, C,
2 3	A. No, absolutely not.Q. Do you remember what that was?A. It was Tony Cowen what did he	2 3	Q. And it appears that the cells are numbered one, two, three I'm sorry, A, B, C, D and E going east along the north boundary of
2 3 4	A. No, absolutely not.Q. Do you remember what that was?A. It was Tony Cowen what did he call it?	2 3 4	Q. And it appears that the cells are numbered one, two, three I'm sorry, A, B, C, D and E going east along the north boundary of the site, is that right?
2 3 4 5	 A. No, absolutely not. Q. Do you remember what that was? A. It was Tony Cowen what did he call it? Q. Lammers Barrel Factory. 	2 3 4 5	 Q. And it appears that the cells are numbered one, two, three I'm sorry, A, B, C, D and E going east along the north boundary of the site, is that right? A. That's correct.
2 3 4 5 6	 A. No, absolutely not. Q. Do you remember what that was? A. It was Tony Cowen what did he call it? Q. Lammers Barrel Factory. A. Yeah, and Lammers. They were 	2 3 4 5 6	 Q. And it appears that the cells are numbered one, two, three I'm sorry, A, B, C, D and E going east along the north boundary of the site, is that right? A. That's correct. Q. Any first question is why isn't
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2 3 4 5 6 7 8	 A. No, absolutely not. Q. Do you remember what that was? A. It was Tony Cowen what did he call it? Q. Lammers Barrel Factory. A. Yeah, and Lammers. They were doing solvent recovery there. Q. At Lammers? 	2 3 4 5 6 7 8	 Q. And it appears that the cells are numbered one, two, three I'm sorry, A, B, C, D and E going east along the north boundary of the site, is that right? A. That's correct. Q. Any first question is why isn't there an F cell here in the first row? A. I don't know if those are lagoons.
2 3 4 5 6 7 8 9	 A. No, absolutely not. Q. Do you remember what that was? A. It was Tony Cowen what did he call it? Q. Lammers Barrel Factory. A. Yeah, and Lammers. They were doing solvent recovery there. Q. At Lammers? A. Right. 	2 3 4 5 6 7 8 9	 Q. And it appears that the cells are numbered one, two, three I'm sorry, A, B, C, D and E going east along the north boundary of the site, is that right? A. That's correct. Q. Any first question is why isn't there an F cell here in the first row? A. I don't know if those are lagoons. When they dug it, instead of being clay it was
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2 3 4 5 6 7 8 9 10 11 12 13 14	 A. No, absolutely not. Q. Do you remember what that was? A. It was Tony Cowen what did he call it? Q. Lammers Barrel Factory. A. Yeah, and Lammers. They were doing solvent recovery there. Q. At Lammers? A. Right. Q. At Beavercreek? A. Right. Q. But that was not a Systech facility? A. Right. Had nothing to do with 	2 3 4 5 6 7 8 9 10 11 12 13 14	 Q. And it appears that the cells are numbered one, two, three I'm sorry, A, B, C, D and E going east along the north boundary of the site, is that right? A. That's correct. Q. Any first question is why isn't there an F cell here in the first row? A. I don't know if those are lagoons. When they dug it, instead of being clay it was sand or something. I really don't know why these are not just like this (indicating). This was on the plan that Jack Wright had originally had straight across. None of this stuff (indicating) that's funny shaped and
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 A. No, absolutely not. Q. Do you remember what that was? A. It was Tony Cowen what did he call it? Q. Lammers Barrel Factory. A. Yeah, and Lammers. They were doing solvent recovery there. Q. At Lammers? A. Right. Q. At Beavercreek? A. Right. Q. But that was not a Systech facility? A. Right. Had nothing to do with Systech. When that blew up, then they started talking to Systech about something Q. So his first connection with Systech would have been after the Lammers Barrel Factory fire? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q. And it appears that the cells are numbered one, two, three I'm sorry, A, B, C, D and E going east along the north boundary of the site, is that right? A. That's correct. Q. Any first question is why isn't there an F cell here in the first row? A. I don't know if those are lagoons. When they dug it, instead of being clay it was sand or something. I really don't know why these are not just like this (indicating). This was on the plan that Jack Wright had originally had straight across. None of this stuff (indicating) that's funny shaped and everything. It was all little squares. Q. If you look at the aerial photo and I think you had kind of outlined where you thought the barrelfill was located. Go ahead and put a square or a circle around the area
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A. No, absolutely not. Q. Do you remember what that was? A. It was Tony Cowen what did he call it? Q. Lammers Barrel Factory. A. Yeah, and Lammers. They were doing solvent recovery there. Q. At Lammers? A. Right. Q. At Beavercreek? A. Right. Q. But that was not a Systech facility? A. Right. Had nothing to do with Systech. When that blew up, then they started talking to Systech about something Q. So his first connection with Systech would have been after the Lammers Barrel Factory fire? A. Right. There wasn't any so he was still trying to get in waste disposal or solvents and so he worked out a deal with Tom Whitman. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. And it appears that the cells are numbered one, two, three I'm sorry, A, B, C, D and E going east along the north boundary of the site, is that right? A. That's correct. Q. Any first question is why isn't there an F cell here in the first row? A. I don't know if those are lagoons. When they dug it, instead of being clay it was sand or something. I really don't know why these are not just like this (indicating). This was on the plan that Jack Wright had originally had straight across. None of this stuff (indicating) that's funny shaped and everything. It was all little squares. Q. If you look at the aerial photo and I think you had kind of outlined where you thought the barrelfill was located. Go ahead and put a square or a circle around the area that you thought was the barrelfill. A. It was supposed to come down and then go across here (indicating).
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36 (Pages 138 to 141)

37 (Pages 142 to 145)

	Page 142		Page 144
1	had shown on the aerial photo, when you get to	1	cell. So let's just assume A-1 was the first
2	cell E-1, you're not close to the woods or	2	cell.
3	anything so are you just saying that was not a	3	A. Right.
4	suitable location to put a couple more cells?	4	Q. Was B-1 the second cell?
5	A. Apparently not. I don't know, I	5	A. Yes.
6	wasn't there when they were digging it, but	6	Q. And was C-1 the third cell dug in
7	they were starting up in here (indicating),	7	order chronologically?
8	starting to get a lot of cave-ins and stuff,	8	A. I'm thinking that's correct and
9	the sides would fall in because it wasn't as	9	then they come back here for some reason
1			
10	much this was all clay where they did the	10	(indicating). I don't remember if they were
11	PERC test (indicating), they took a fifty-five	11	having problems or something but they started
12	gallon drum, filled it up full of water, had a	12	back over here (indicating).
13	little graduated cylinder on it, filled it up	13	Q. Over here being row two?
14	full of water and let it set there for a week	14	A. B-2.
15	and seen how much soaked in so this was really	15	Q. This would be A-2, I believe?
16	packed solid clay, but apparently there could	16	A. Okay, A-2, that's right. But they
17	have been something out in here (indicating)	17	didn't keep on with their plan of just doing
18	because it's a landfill and I don't know how	18	like that I don't think.
19	much backfill they put on top of it, but if it	19	Q. My next question is if you look at
20	didn't pass the PERC test, they were supposed	20	the diagram, some cells are much larger than
21	to test each cell to make sure that it's	21	others, for example, A-1 is a little box. If
22	still	22	you look at the bottom of the diagram, there's
23	Q. All right. So on that first line	23	some huge cells.
24	along the northern boundary, there's just the	24	A. I have no idea.
25	five cells, A, B, C, D and E, and then they	25	Q. So you're really only familiar
25	The cells, A, D, C, D and L, and then they	25	Q. So you're really only farmial
	Page 142		
	Page 143		Page 145
1	didn't continue to go to the east, at least	1	with the cells
2	didn't continue to go to the east, at least according to this diagram?	2	with the cells A. The first five or six.
2 3	didn't continue to go to the east, at least according to this diagram? A. Yes.	2 3	with the cells A. The first five or six. Q. The cells in the northwest corner
2 3 4	didn't continue to go to the east, at least according to this diagram? A. Yes. Q. But on the second row, A, B, C, D,	2 3 4	with the cells A. The first five or six. Q. The cells in the northwest corner of the barrelfill?
2 3 4 5	didn't continue to go to the east, at leastaccording to this diagram?A. Yes.Q. But on the second row, A, B, C, D,E, F, G and H in the second row, right?	2 3 4 5	with the cells A. The first five or six. Q. The cells in the northwest corner of the barrelfill? A. That's correct. What they did
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	Page 146		Page 148
1	twenty-five feet and it would be a similar	1	level. And so the highest number would be at
2	length long because you're trying to make them	2	the top. If that changed later on, I don't
3	square, not rectangular?	3	know.
4	A. Right. Drums two and a half foot	4	Q. You said earlier there really was
5	in diameter, something like that.	5	like one let me back up. You said earlier
6	Q. When you said fifteen to twenty	6	that most of the operations happened during the
7	feet deep, I noticed that some of the cells had	7	day?
8	six or seven layers and one of them had up to	8	A. Right.
9	ten layers?	9	Q. So in wintertime it gets dark at
10	A. Yes. Eleven layers.	10	5:30, 6:00, so there wouldn't be any second
11	Q. So depending on how many layers	11	shift or third shift operations out at the
12	are in the cell report would tell you how deep	12	site?
13	the hole was?	13	A. No. There was usually in the
14	A. Yes. Yes, it would. Except you	14	wintertime there was a if you lost steam
15	have got a two and a half foot and then you sit	15	pressure, then the steam return lines would
16	a drum they are side-by-side and then when	16	freeze up and everything so they did have kind
17	you sit this other one, if they scoot any, then	17	of like he was a maintenance man and he would
18	it's not a full two and a half foot. It may be	18	be in the boiler room and kind of, you know,
19	only two foot so a cell could hold more drums	19	check periodically to make sure the boiler
20	depending on how they are arranged.	20	didn't shut down because when it froze up, it
21	Q. And would the depth of the cell	21	takes three days to dig up the pipes and get
22	depend on the soil that they were digging into?	22	them thawed out and everything. So they had
23	A. No.	23	him there he come in about 4:30 to 5:00 and
24	Q. What would determine the depth of	24	stayed to around 12:00 or 1:00, something like
25	the	25	that, and periodically check on the weekend and
20		122	and, and periodically check of the weekend and
-	Page 147		Page 140
	Page 147 A. The depth of the hole was	1	Page 149
1	A. The depth of the hole was	1	stuff to make sure that it didn't freeze up.
2	A. The depth of the hole was determined how deep the backhoe could reach in	2	stuff to make sure that it didn't freeze up. And then when the weather would get nicer, then
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2 3 4	 A. The depth of the hole was determined how deep the backhoe could reach in there and he went as deep as he could go. Q. What would be the reason for one 	2 3 4	stuff to make sure that it didn't freeze up. And then when the weather would get nicer, then he was back on the day shift, but they would occasionally do that when it really got cold
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 A. The depth of the hole was determined how deep the backhoe could reach in there and he went as deep as he could go. Q. What would be the reason for one cell only getting seven layers and another one being eleven layers? A. Let's say you're going down and you hit some sand or debris or rock that you can't move, these big rocks, and you have got a rock sitting there, then you have to put the drums around it, you can't Q. Can't go any deeper than what the rocks at the bottom? A. Right, rocks or sand or whatever it was in there when they backfilled it. Q. I was just curious. When we were talking about levels, let's say there were eleven levels in a cell. Is level one the bottom cell or the top cell? A. Should be the bottom. Q. So level eleven would be the top? A. Yes. That's the way they were originally supposed to be. Because you put them in and you write level one until you get 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	stuff to make sure that it didn't freeze up. And then when the weather would get nicer, then he was back on the day shift, but they would occasionally do that when it really got cold because the boiler wouldn't take care of itself. If it lost return and started freezing up, it would shut down. MR. BROWN: That's all the questions I have. FURTHER CROSS-EXAMINATION BY MS. WOLFE: Q. I just have a couple quick questions for you, Mr. Hill, to clarify the time frame when you were working at the site. If we could measure it against when Nelson Wallis was there, I just want to clarify whether you were there working at the same time that he was employed there or whether you left before he became employed there. A. No, he was working, I'm guessing maybe two three or four months before I left. Q. So if he was there if he began in earlier 1979, then that would mean that you were there until mid 1979?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A. The depth of the hole was determined how deep the backhoe could reach in there and he went as deep as he could go. Q. What would be the reason for one cell only getting seven layers and another one being eleven layers? A. Let's say you're going down and you hit some sand or debris or rock that you can't move, these big rocks, and you have got a rock sitting there, then you have to put the drums around it, you can't Q. Can't go any deeper than what the rocks at the bottom? A. Right, rocks or sand or whatever it was in there when they backfilled it. Q. I was just curious. When we were talking about levels, let's say there were eleven levels in a cell. Is level one the bottom cell or the top cell? A. Should be the bottom. Q. So level eleven would be the top? A. Yes. That's the way they were originally supposed to be. Because you put 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	stuff to make sure that it didn't freeze up. And then when the weather would get nicer, then he was back on the day shift, but they would occasionally do that when it really got cold because the boiler wouldn't take care of itself. If it lost return and started freezing up, it would shut down. MR. BROWN: That's all the questions I have. FURTHER CROSS-EXAMINATION BY MS. WOLFE: Q. I just have a couple quick questions for you, Mr. Hill, to clarify the time frame when you were working at the site. If we could measure it against when Nelson Wallis was there, I just want to clarify whether you were there working at the same time that he was employed there or whether you left before he became employed there. A. No, he was working, I'm guessing maybe two three or four months before I left. Q. So if he was there if he began in earlier 1979, then that would mean that you

	Page 150		Page 152
	Q. So whichever cells were dug during	1	bottom cells being so large?
2	the time frame from the beginning in '76	2	A. Well, it could be because they
3	through May or June, '79, those were dug while	3	were all like this (indicating), a cell and
4	you were there?	4	then they were separated by eight, ten feet
5	A. Yeah. Yeah.	5	between cells and they had test wells PVC pipe
6	Q. And how much time did you spend	6	stuck down in the ground down to the bottom of
7	actually at the cells themselves observing what	7	the cell and we periodically had samples if
8	was taking place there?	8	there was anything in there.
9	A. The first two or three, I was	9	MS. WOLFE: Okay. I have no further
10	there probably once or twice for maybe fifteen,	10	questions. Thank you very much, Mr. Hill, and
11	twenty minutes and then I got busier trying to	11	that will be all for now. I just want to explain
12	handle the samples were coming in too fast and	12	since you don't have an attorney here to explain
13	I would get up there oh, three or four times	13	this to you today, I want to explain to you what's
14	a week. Once I saw how they were doing it and	14	going to happen with the transcript of your
15	it looked like it was all they were doing it	15	deposition. The court reporter who has been
16	safe and everything, then I didn't bother to	16	taking down the deposition today will prepare a
17	walk way up there to see what they were doing.	17	written transcript and you can choose whether you
18	Q. So as they progressed with more	18	want to read that or whether you want to waive
19	and more rows of cells, you didn't always	19	that opportunity. If you choose to read the
20	observe the drum disposal every day?	20	transcript, the court reporter will send it to you
21	A. No, not usually I tried to get	21	and you can read it over and you can make any
22	up there at least once a day or every other	22	corrections that you feel are necessary in form or
23	day, depending on sometimes I was gone all day	23	substance and then you have to have it signed and
24	with the salesmen to Gallipolis or Galion to	24	notarized and returned back to the court reporter.
25	check on a new customer and then I would come	25	Or if you don't think that's necessary and you
	Page 151		Page 153
	back. What they did that day, I wasn't there		don't want to read the transcript, you can waive
2	at the plant, I didn't know.	2	that right. It's completely up to you. But if
3	Q. So would you agree that the	3	you choose not to read the transcript, then I
4	operation of the barrelfill closed in late	4	believe after thirty days the court reporter will
5	1979? Does that sound about right if you know?	5	sign it on your behalf. So either way, if you
6	A. Well, I don't see how they got all	6	have it sent to you, then at least you get the
7	these big cells. I never saw a big cell.	7	option of reading it. If you never send it back
8	Q. Well, I don't know how accurate	8	then the court reporter will go ahead and do it
9	the dimensions are in what's represented on	9	for you.
10	that exhibit, Exhibit 2. I can't	10	THE WITNESS: Probably because I can
11	A. I don't remember	11	dig up a resume and correct the dates that I've
12	Q. Exhibit 3 actually. I can't say	12	given you with more exact dates because I had
13	that those cells at the bottom are actually	13	dates of employment on my resume, but I haven't
14	that size	14	used that in twenty some odd years.
15	A. Okay.	15	MS. WOLFE: Well, if you make any
16	Q in comparison with the top	16	corrections to any part of the testimony that you
17	celis.	17	have given today, then the rules do require that
18	A. Okay. Because I don't remember	18	you give some kind of a reason why you're changing
19	anything being funny shaped like that and right	19 20	what your testimony is. THE WITNESS: It would be dates is
20	next to each other and stuff. They were like this (indicating).	20	what
22	Q. So when you testified earlier that	22	MS. WOLFE: Okay. If you want to do
22	you were only there for the first few cells, is	23	that, then you just prepare a list with what the
24	that because you don't recognize how these are	24	change is and what the error was and
25	depicted in the diagram with respect to the	25	THE WITNESS: Put them together and
1			

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	send them back. Okay. Yeah. (Thereupon, the deposition was concluded at 5:08 p.m.)	Page 154	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Page STATE OF OHIO) COUNTY OF MONTGOMERY) SS: CERTIFICATE I, Mary Jo Stevens, a Notary Public within and for the State of Ohio, duly commissioned and qualified, DO HEREBY CERTIFY that the above-named CLYDE E. HILL, JR., was by me first duly sworn to testify the truth, the whole truth and nothing but the truth; that said testimony was reduced to writing by me stenographically in the presence of the witness and thereafter reduced to typewriting. I FURTHER CERTIFY that I am not a relative or Attorney of either party nor in any manner interested in the event of this action. IN WITNESS WHEREOF, I have hereunto set my hand and seal of office at Dayton, Ohio, on this day of, 2005. MARY JO STEVENS NOTARY PUBLIC, STATE OF OHIO My commission expires 9-10-2006	ge 156
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	I, CLYDE E. HILL, JR., do hereby certify that the foregoing is a true and accurate transcription of my testimony.	Page 155			

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