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Case: IMO: Holtrachem Site, Riegelwood, NC

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U.S. ENVIRONMENTAL PROTECTION AGENCY

HOLTRACHEM SITE

RIEGELWOOD, NORTH CAROLINA

PUBLIC MEETING TO DISCUSS THE PROPOSED HOLTRACHEM SITE CLEANUP PLAN RIEGELWOOD, NC

REPORTED BY:

TAMARA A. VIOLETTE, Notary Public and Court Reporter

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TELEPHONE: 910-343-1035

DATE REPORTED: August 23, 2016

LOCATION: Riegelwood, N.C.

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4	For	the	EPA:	SAMANTHA		RT-FOSTER		
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	MISTORIA (CARLS STOLE)							Page 2

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1 (The Hearing commenced at 7:15 p.m.) 2 MR. TOLLIVER: Good evening, everyone. Welcome to 3 our proposed plan meeting, and I do want to thank you all for coming out, and I do want to say I really, really enjoy 4 5 being here in Wilmington. Very nice, very pleasant place. 6 But we're going to get ready to get started with a proposed 7 plan presentation with our project manager here, Samantha 8 Foster. So with our -- the purpose of this meeting is to 9 really highlight our plan for clean up in the Holtrachem 10 site. 11 So we want to make sure you guys understand where 12 we're coming from so we can get some input also from 13 community members as well. This is really an important 14 time, kind of get the ball rolling and get things started 15 with the clean up and also reuse of the site. 16 Samantha, the first slide here is from The Superfund 17 Process, and I'm sure most of you are familiar with it, but 18 we start out with kind of like the site investigation phase 19 is in the beginning, down there at the bottom; and then we 20 move on -- once you investigate a site you move on to 21 listing it on the National Priorities List. That way it 22 can get funded. 23 Then from there we move onto our remedial

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1	investigation. So we investigate the feasibility study,
2	seeing what all the resources that it's going to take to
3	actually clean it up to come up with the best plan to
4	plan of action, basically. That's where we're at now,
5	we're at a plan of action, or proposed plan. We want to
6	propose it to the community, and get some input and see how
7	it will impact the community and get some input or comments
8	so that we can take into consideration before we move onto
9	our record of decision; kind of like a finalizing document
10	that says, okay, this is what EPA is going to be
11	responsible in doing to clean up this site here,
12	Holtrachem.
13	So the rest of it will go into and Samantha is
14	going to really describe this, the options that she went
15	through, and also the one that we're going to recommend for
16	this site. So Samantha, do you want to just kind of
17	explain it?
18	MS. URQUHART-FOSTER: Hi, I'm Samantha
19	Urquhart-Foster for those of you that I haven't met yet.
20	I'm a remedial project manager for the EPA, particularly
21	for this site. We have got a huge team of people that are
22	working with us on this project, but the people that we
23	have here tonight are myself; Ron Tolliver, Community

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Involvement Coordinator; I have Dave Mattison with North
 Carolina; Prashant Gupta with Honeywell; Cynthia Draper and
 Walker Jones with Amec; and we have got a whole team of
 people back in the office that weren't able to come here
 tonite.

The site itself is located in Riegelwood. From where 6 7 we are now it's -- you shoot down through IP. You have to 8 drive through IP to get there. It's surrounded by 9 International Paper with the Cape Fear River on the other 10 border. The facility was developed in 1963, I believe, and 11 was constructed; they prepared -- manufactured, it was 12 chlor-alkali facility. They manufactured hydrochloric acid, chlorine dioxide and other chemicals to give to IP as 13 14 well as just to sell to other facilities. It operated 15 until 2000.

16 EPA has been involved with the site since 1999. 17 Before that, North Carolina RCRO was involved with the 18 In 1999 Hurricane Floyd came through and the EPA project. provided emergency response activities and then the 19 20 facility stopped operation in 2000. EPA came in and 21 oversaw the removal action that Honeywell's conducting in 22 2003 and 2004 then, again, in 2008 there was another 23 removal that was done.

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Hurricane Floyd came in and there were about 24 inches of rain that fell in that process and it caused the -- a breach of the stormwater retention basin. So the water that was contained on-site breached out of the basin and spilled into the Cape Fear River. It was about 2.2 million gallons of water that was released and a had a small amount of mercury in it.

Then in 2003 and 2004 EPA oversaw the removal action 8 that Honeywell and their contractors did. They tore down 9 10 the former mercury cell building, they containerized all 11 the waste that was on-site and transported it off-site. 12 There was, we were told, about 4 million pounds of waste 13 that was removed from the site. There was about 34,000 14 pounds of mercury, a lot of scrap metal; brass, mercury, 15 copper, titanium, as well as other hazardous materials that were transported off-site. So the majority of waste that 16 17 was at the site has already been removed. What we're 18 dealing with now is residual.

In 2008 we learned that back historically the waste water that was at Holtrachem was transferred to International Paper for treatment before it was disposed or released. International Paper did some sampling in the lagoon where they wanted to build another landfill cell in

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and it was found it was contaminated with PCBs. So after they discovered that and let us know, there was a removal action that was done and about 24,000 cubic yards of mercury -- I'm sorry, PCB contaminated soil, sludge was transferred over to the Holtrachem site for storage until we could get to their clean up plan.

7 The site has been divided in, like, three areas. 8 There's an upland process area, upland nonprocess area and 9 wooded bottomland area. The green is the bottomland area 10 which borders the Cape Fear River. Yellow is a processing 11 area and orange is the nonprocessing area.

12 So the scope and role to the remedial action is going to address any remaining contamination at the site. 13 Groundwater is contaminated but it's not of usable -- it's 14 15 not usable. So, I mean, our primarily -- our primary concern is to address the contaminated soil, sediment, 16 17 surface water and we're going to do groundwater monitoring. 18 The main risk at the site; land use is currently 19 industrial. We see it being industrial in the future. To 20 get there you have to drive through International Paper. 21 So we don't see any residential use in the future. It will either be industrial or wildlife habitat. Groundwater use 22 23 hadn't -- I mean, groundwater hasn't been used at the site

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ever. Groundwater has been -- drinking water's been
 provided by International Paper in the past and we see that
 proceeding into the future.

The exposed populations are industrial workers, 4 5 trespassers and wildlife. The human health risk associated 6 with the site include industrial work, construction workers 7 or trespassers onto the project. The site is fenced on 8 three sides. You can only get there is to drive through 9 International Paper and then the site's fenced. It's qot 10 people on-site managing the property. The only nonfenced 11 side is on the Cape Fear River and there's a huge drop off 12 between the site and the river. So it's like somebody 13 decided to drive their boat up and come up is really the 14 only way they could get access to it.

For the ecological risks, we did an ecological risk assessment. We found the primary receptors that were at harm were the green, Blue Heron, the Carolina Red and amphibian and micro invertebrates, based on toxicity testing.

This is the conceptual site model. The areas in purple are the areas that are primarily contaminated with mercury and PCBs. And as you can see, some of the buildings that are shown in purple. So this building here

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by the arrow in purple no longer exists. It was the former mercury cell building. That's been dismantled. The rest of the contamination are the areas in purple.

So our remedial action objectives are primarily
cleaning up the site so it's safe for human -- human use
and wildlife. The main contaminants are mercury and
Araclor 1268 which is a PCB.

8 We developed remediation goals based on human health 9 and ecological risk assessments. So we came out with these 10 clean up levels. We had concentrations of PCBs or Araclor 11 1268, for example, in the upland area up to 2700 micrograms 12 per kilogram. We're proposing 11 milligrams per kilogram, 13 so clean up level. We have other mercury clean up level 14 we're proposing is 536 and that's all based on risk 15 assessments, assuming that it's going to be industrial use 16 at the site.

The wooded bottomland area is slightly different. That area there's a lot of wildlife down there; and our goal is to protect the wildlife in that area. So we have lower clean up goals for that. In the wooded bottomland area, for example, we have 3 milligrams per kilogram to clean up for mercury versus 500 something in the upland area.

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1 During the feasibility study of this process the 2 contractors consulted and they looked at different areas 3 and different alternatives and came up with 6 different 4 alternatives for the majority of the site, and I'm just 5 going to hit on the key ones. Our preferred remedy is 6 Alternative 3 and the rest of the alternatives are included 7 in the proposed plan. I don't know if you have a copy of 8 that. If you don't we can give one to you.

9 So the 6 alternatives for the soil and sediment for 10 the majority of the site include no action, which we have 11 to do as a matter of the National Contingency Plan requires 12 us to look at no action. That's obviously not going to be 13 for this site because of the contamination of the site and 14 that we're not comfortable with.

Alternative 2 is capping with limited excavation with
off-site disposal or on-site treatment. Institutional
controls and engineering controls.

18 Alternative 3, which is our preferred remedy, is a 19 combination of capping, excavation, on-site disposal and 20 institutional controls; and A4 is similar but it's, you 21 know, different areas of capping.

A5, excavation and on-site disposal. A6 is excavation
with off-site disposal. I'll go into a little more detail

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1 in each of these.

2	There are two areas at the site which are different
3	than everyone else, F and G; and those have separate
4	alternatives. There's no action for Al or S1, which we
5	don't agree with. Our preferred alternative is S3, which
6	is capping within in-situ stabilization, solidification and
7	capping and ICs, Institution Controls.

8 So the common elements, all 6 of the alternatives 9 include capping and erosion control along the berm in the 10 upland nonprocess area. There's one area that needs to be 11 capped. They all include clean out and closing stormwater 12 conveyance system, dewatering and off-site disposal of the 13 materials from the stormwater system; decommissioning the 14 stormwater treatment system; operation and maintenance is 15 substantially controls, engineering controls and five year 16 reviews.

Again, we looked at 6 alternatives. I'm just going to list or show us the one for what we propose. You can -but I have got other slides if you want to see what the other alternatives are. What we're proposing doing is Alternative A3 and that includes excavation and capping as well as containing the waste, any excavated waste on-site into a landfill. The plan is to create a chemical waste

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1 landfill on-site that's going to be equivalent with the 2 commercial chemical waste landfill. It includes excavating 3 about 15,000 cubic yards of contaminated soil, as well as 4 disposing of 39,000 cubic yards of contaminated soil, 5 sludges into the landfill. It will take about ten -- two 6 years to complete and about 13.3 million dollars.

For the more contaminated areas where the former mercury cell building was here at area G, we don't have a lot of data for that cell. Right now there is a top material on top of it and we're planning on capping it and solidifying the waste in place. As well, in area F where it was the former mercury cell building.

I might have that backwards. I'm sorry, F is where the retort pad area was and G is the former mercury cell building.

So to solidify that waste in place and cap it is gonna 16 17 be about 2.9 million dollars and take about a year or two. Again, we looked at 6 different alternatives for the upland 18 area and four different areas for F and G and we -- in the 19 National Contingency Plan we're supposed to look at 9 20 different criteria; and there's a trade off of which 21 22 alternatives are better than others. And so Alternative 1 23 is no action. That's not good for any of us.

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So, again, our preferred alternative is to excavate
 the contaminated area, the wooded bottomland areas; bring
 it up; construct an on-site chemical waste landfill; put
 the contamination from the wooded bottomland areas, as well
 as the soil that was excavated from International Paper,
 and put it into their chemical waste landfill on-site.

7 This is kind of a conceptual drawing of the actual 8 location, and the area may change during the remedial 9 design; but this is kind of a conceptual idea of what we 10 are planning on doing.

11 Community participation; we have established an 12 information repository at the public library just across 13 the street, and we're accepting public comments on this 14 until September 14th. So you probably just got a flyer in 15 the mail, which is like a two page summary. If you want to 16 see much more about the project, what's involved as far as 17 the feasibility study and the full proposed plan, it's 18 available in the library if you want to look at it. We're 19 accepting comments here tonite or you can Email them to me 20 or send them through regular mail.

David Mattison is here with North Carolina and part of the nine criteria in the National Contingency Plan is State acceptance.

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MR. MATTISON: The State has concurred with the
 proposed clean up plan.

3	MS. URQUHART-FOSTER: There are other community
4	involvement activities that we have in the Superfund
5	process. I'll let Ron speak to the groups, they can form
6	and request a technical assistance grant to hire technical
7	consultants to explain things better to the community if
8	community members have difficulty understanding the
9	technical content. Again, we have got the public record or
10	the majority of the documents that are gonna be supporting
11	this decision are in the library.
12	MR. TOLLIVER: Any questions? Y'all have any
13	questions, would you please say the question and just state
14	your name for the reporter and if you represent an
15	organization just let us know.
16	MS. SORG: I'm Lisa Sorg, S-o-r-g. I'm from NC
17	Policy Watch in Raleigh. I'm a reporter, and I had a
18	question about surface water in the Cape Fear and fish.
19	You know, is there a fish advisory? I'm wondering if
20	there's sediment issues in the Cape Fear outside the scope
21	of this, or how would that be addressed, if at all?
22	MS. URQUHART-FOSTER: Yeah, there are fish
23	
	advisories from the Cape Fear and we did collect sediment

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1 and surface water sampling, but we found that the 2 contamination that's in the river isn't coming from the 3 site. There is existing fish advisories, though. 4 MR. MATTISON: I believe the fish advisory is for 5 essentially everything east of 95. But that's not site 6 related. 7 MS. SORG: Okay, got you. 8 MR. TOLLIVER: Anyone else? 9 MS. SORG: I think in the documents, maybe it was 10 in one of the documents I read, there was a pipeline. 11 Where is that pipeline located? Is it still in existence? 12 Does it go, like, under --MS. URQUHART-FOSTER: Are you talking about the 13 14 pipe that went from Holtrachem to IP? 15 MS. SORG: I think that's it. It did some kind 16 of discharge. 17 MS. URQUHART-FOSTER: That was excavated in 2008 18 when we did the clean up at International Paper. I don't 19 know if we actually found the pipe. I know --20 MR. GUPTA: Remnants of it. 21 MS. SORG: Were there any problems when the 22 tornado hit? Of course, you guys remember Hurricane Floyd 23 did a lot of damage, but the tornado, it wasn't that far Page 15

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from here. That didn't have any effect at all? 1 MS. UROUHART-FOSTER: Well, the facility has an 2 ongoing Emergency Response Plan in place. So anytime they 3 know there's going to be a hurricane coming or tornado we 4 gear into action to prepare for that. There's been minor 5 damage throughout the years, but it's all been proactively 6 contained. 7 MS. SORG: I just have a couple more questions and 8 that was, how close on the landfill, since it's going to be 9 getting -- well possible waiver, how close to the 10 groundwater is that landfill? Can you tell me, like, from 11 the bottom of the landfill to kind of the water table, how 12 13 far that is? MS. URQUHART-FOSTER: The water table at the site 14 15 is about ten feet deep, but that water at that level is not It's not usable for drinking purposes. So they're usable. 16 going to put in a bottom drainage system and liner to get 17 to meet the equivalent for the TSCO Waiver. 18 MS. SORG: And the only thing -- maybe this is --19 20 did anyone ever follow the workers? When I was looking at the library today there were, I know, some workers back in 21 the late 90s had high levels or abnormal levels of mercury 22 23 in their urine. Was there any kind of study of -- health

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1	study	for	anybody?
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2	MS. URQUHART-FOSTER: I know there was a lawsuit.
3	I don't know beyond that. I could ask our ATSDR, Agency
4	for Toxic Substances and Disease to follow-up on that.
5	MS. SORG: Okay, great. Thank you.
6	MR. TOLLIVER: That the last question?
7	MS. FAIL: My name is Kim Fail. I'm with
8	International Paper. I had two questions. One of which I
9	have already asked of Walker, but we'd like to understand
10	the amount of leachate that's going to be generated from
11	the site and how it will be disposed of. So that's one
12	question that we had and I think he answered it for me.
13	MS. URQUHART-FOSTER: Good, because I can't
14	answer that. He may know.
15	MR. JONES: My name is Walker Jones. We don't
16	anticipate a significant amount of leachate from the
17	landfill. The bulk of it's going to be sort of should
18	be some saturation of soils, but we think we can manage
19	that without waste water treatment. So it will be more of
20	a collection than haul it off-site for disposal.
21	MS. FAIL: And my second question was about
22	the I know there was an underground drainage system
23	proposed as well, potentially proposed for this as well.
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1	So what are your thoughts on with, you know, the ground
2	water that pumps down? Where will that go?
3	MS. DRAPER: Cynthia Draper with Amec Foster
4	Wheeler. I want to make sure I understand. The
5	underground system that you're talking about, it goes
6	it's a it goes underneath the landfill and it's either a
7	dual liner system or a leachate collection system. It's an
8	extra safety feature should the groundwater, for any
9	reason, come up higher, you get higher than five feet, so
10	that it could come in contact with the landfill. We want
11	to avoid that. So this will not be something that would be
12	generated on a regular basis. And I'm sorry, tell me again
13	the question specifically?
14	MS. FAIL: Well, I mean, you're obviously going
15	to have to draw down the groundwater, right? To keep
16	you're saying no?
17	MS. DRAPER: No, we do not plan to continually
18	depress that groundwater. For one thing, once you get past
19	that top ten feet you're about 200 feet of very dense clay.
20	It's very permeating from your site. You probably know all
21	about that as well. So we do not plan to draw down the
22	groundwater any further and put an under drain system just

23 in the unlikely event it should rise up to the surface.

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1	MS. FAIL: Thank you.
	Mb. FAIL. IMAIK you.
2	MR. TOLLIVER: Any other questions?
3	MS. URQUHART-FOSTER: We appreciate you coming
4	out. Feel free to let your neighbors know about the
5	information. We encourage anyone to comment and provide us
6	feedback on the proposed clean up plan.
7	MR. TOLLIVER: September 14th, that's the end of
8	the comment period. So we move forward after that. If you
9	have any concerns please let one of us know and we'll
10	answer. That concludes our meeting. Thank you all for
11	coming and we look forward to hearing from you.
12	(The Hearing concluded at 7:45 p.m.)
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1	STATE OF NORTH CAROLINA)
2	COUNTY OF PENDER)
3	CERTIFICATION OF REPORTER
4	I, TAMARA A. VIOLETTE, Notary Public and Court
5	Reporter, have read the foregoing transcript, which was
6	taken down and transcribed by me for AURELIA RUFFIN &
7	ASSOCIATES, INC., and I find the contents of same to be
8	true and correct to the best of my knowledge and belief.
9	This the 2nd day of September, 2016.
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13	/s/
14	Notary Public, 20031180184
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1	STATE OF NORTH CAROLINA)
2	COUNTY OF NEW HANOVER)
3	CERTIFICATION
4	I, PETER BROWNE RUFFIN, III Notary Public, Court
5	Reporter and President of AURELIA RUFFIN & ASSOCIATES,
6	INC., do hereby certify that the foregoing transcript
7	constitutes a true and correct record of the testimony
8	given, the same having been taken down and transcribed by
9	TAMARA VIOLETTE, Notary Public and Court Reporter on the
10	date and at the place set forth in the record and before
11	those persons named therein;
12	FURTHER, that we are not related to and are not
13	employed by any of the parties to this action, save and
14	except for the explicit purpose of taking down the
15	testimony herein and transcribing same; and that we, in no
16	way, are interested in the outcome of said litigation;
17	FURTHER, that the original of this transcript will be
18	bound for filing with the Environmental Protection Agency
19	and will be forwarded to ANGELA R. MILLER, Environmental
20	Protection Agency, Region 4, 61 Forsyth Street, S.W., 11th
21	Floor, Atlanta, Georgia 30303.
22	
23	

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1	WITNESS my hand and notarial seal this the 7th day
2	of September, 2016.
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4	PEBRIE
5	VEDRME
6	Notary Public, #19971470080
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