

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NORTH CAROLINA
SOUTHERN DIVISION

IN RE:)
)
) Docket No.
) 7:23-CV-00897
CAMP LEJEUNE WATER LITIGATION)
)
)

TUESDAY, MARCH 25, 2025
TRANSCRIPT OF HEARING
BEFORE THE HONORABLE RICHARD E. MYERS II,
UNITED STATES CHIEF DISTRICT JUDGE

THE HONORABLE LOUISE W. FLANAGAN,
THE HONORABLE TERRENCE W. BOYLE,
THE HONORABLE JAMES C. DEVER III,
UNITED STATES DISTRICT JUDGE

APPEARANCES:

On Behalf of the Plaintiffs:

J. Edward Bell III, William M. Dowling,
James A. Roberts III, Zina Bush, Hugh R. Overholt,
Mona Lisa Wallace, Robin Greenwald,
Elizabeth Cabraser, Laura Baughman

On Behalf of the Government:

John A. Bain, Haroon Anwar, Allison M. O'Leary,
Giovanni Antonucci, Hanley Gibbons,
Bridget Bailey Lipscomb

JENNIFER C. CARROLL, RMR, CRR, CRC
Official Court Reporter
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Tuesday, March 25, 2025, at 1:04 p.m.

P R O C E E D I N G S

THE HONORABLE CHIEF JUDGE MYERS: All right. Good morning, everyone -- good afternoon, everyone. We're now in session in *in re: Camp Lejeune Water Litigation*. We have multiple individuals present here for the United States as well as for the defense -- I mean, as well as for the plaintiff. So if the plaintiff would please make their appearance.

MR. BELL: Good morning, Your Honors. Edward Bell for the plaintiffs.

MR. DOWLING: Good morning, Your Honor. Mike Dowling on behalf of plaintiffs.

MR. ROBERTS: Good morning. Jim Roberts on behalf of the plaintiffs.

MS. BASH: Good morning. Zina Bash on behalf of the plaintiffs.

THE HONORABLE CHIEF JUDGE MYERS: Thank you. And for the United States.

MR. BAIN: Good afternoon, Your Honor. Adam Bain for the United States.

MR. ANWAR: Good afternoon, Your Honor. Haroon Anwar for the United States.

MS. O'LEARY: Good afternoon. Allison O'Leary for the United States.

1 MR. ANTONUCCI: Good afternoon. Giovanni
2 Antonucci for the United States.

3 MR. GIBBONS: Good afternoon, Your Honor. Hanley
4 Gibbons for the United States.

5 THE HONORABLE CHIEF JUDGE MYERS: All right.
6 Thank you.

7 And welcome to everyone in the gallery. I know
8 this has generated some interest.

9 So we're here today because we're going to have
10 some presentations by the parties regarding water at Camp
11 Lejeune. The Court's intention is to listen to the
12 presentations by the parties and then resulting in some
13 questions from the bench. This litigation is somewhere in
14 its second year. We're working our way through both this
15 litigation process which is taking part in installments.
16 First, we're going to figure out water, then we're going to
17 figure out exposure. We're going to figure out causation
18 of various diseases in the tracked method, where those
19 diseases can be determined whether or not they're caused by
20 exposure to water at Camp Lejeune. And ultimately, we will
21 determine liability compensation.

22 The purpose of today's hearing, we're here to talk
23 about water, where it was, and how we're going to think
24 about that. And so with that in mind, we'll start with the
25 plaintiffs' presentation.

1 MR. BELL: Good afternoon, Your Honor.

2 Mr. Dowling is going to address that issue.

3 THE HONORABLE CHIEF JUDGE MYERS: Thank you, sir.

4 MR. DOWLING: Good morning, Your Honor. For
5 planning purposes, can -- this is a novel hearing for
6 myself. Can I assume that the 20 minutes is what I have
7 and I won't be rebutting the --

8 THE HONORABLE CHIEF JUDGE MYERS: I think the
9 anticipation is 20 minutes on your side, 20 minutes from
10 the United States, questions from the bench, which will
11 create a back and forth. So there may be some responsive
12 statements or questions that say, "How do you now respond
13 to that?", or vice versa. The United States, of course, by
14 going second has the benefit of being able to respond in
15 its presentation.

16 MR. DOWLING: Understood, Your Honor. Thank you
17 very much.

18 Your Honor, with the Court's permission I would
19 like to forecast plaintiffs' position on two key
20 substantive Phase I issues this afternoon. The two key
21 substantive issues are as follows: First, from the 1950s
22 to the mid-1980s, parts of Camp Lejeune's water
23 distribution systems were highly contaminated with
24 poisonous chemicals. And second, the federal government's
25 historical water modeling reconstructions, the reports

1 generated by the ATSDR that cataloged the mean monthly
2 concentration of the poisonous chemicals, are reliable.

3 Turning to the first issue, Your Honor: We are
4 here today because of the groundwater contamination that
5 occurred at Camp Lejeune from the early 1950s to the
6 mid-1980s, and -- because that contamination injured
7 thousands of Marines, their family members, and civil
8 employees that worked at the base. The contamination of
9 Camp Lejeune's water supply was so extensive and so total
10 that the base is still under remedial measures and EPA
11 Superfund institutional controls to this day. At this
12 moment, there are efforts -- ongoing efforts to remediate
13 the base.

14 So at this point, the contamination has been
15 present for over 70 years. And despite substantial time,
16 millions of dollars in expense, the contamination has still
17 not been eliminated. How did this environmental disaster
18 happen?

19 Your Honor, construction of Camp Lejeune began in
20 early 1941. And since the inception, the sole source of
21 drinking water at Camp Lejeune has been from the freshwater
22 aquifers beneath Camp Lejeune's sandy soil. Camp Lejeune
23 grew rapidly in the decades that follow and eventually was
24 supported by nine separate water distribution systems.

25 The three known contaminated water distribution

13:08:57 1 systems are indicated in Plaintiff's Exhibit 1 which is
13:08:59 2 before the Court. I hope Your Honors can all see
13:09:02 3 Plaintiff's Exhibit 1. And as Your Honors can see, this is
13:09:05 4 a chart from the ATSDR's historical water modeling. It
13:09:09 5 provides some context showing the base overall in the
13:09:12 6 bottom left-hand corner and then it zooms in on the three
13:09:14 7 water distribution systems that are at issue and that were
13:09:17 8 contaminated. Those water distribution systems include,
13:09:20 9 first, the Hadnot Point water treatment service area;
13:09:24 10 second, the Holcomb Boulevard water treatment service area;
13:09:28 11 and then third, the Tarawa Terrace water treatment service
13:09:31 12 area.

13:09:33 13 What were these locations? What kinds of
13:09:36 14 operations did they support? Well, Hadnot Point is the
13:09:44 15 nerve center of Camp Lejeune. This is the location where
13:09:48 16 most single enlisted Marines lived and worked in barracks.
13:09:52 17 Open squad bay or H-style barracks. Thousands upon
13:09:56 18 thousands of them.

13:09:56 19 This is the location, as our demonstrative exhibit
13:10:01 20 Plaintiff's Exhibit 2 demonstrates, of the main
13:10:02 21 headquarters building, where officers and others would
13:10:05 22 administer the business of the base. There was a brig at
13:10:08 23 Hadnot Point. There was an armory and various other
13:10:11 24 training facilities. There was substantial commercial
13:10:14 25 activity at Hadnot Point within the Hadnot Point water

1 treatment service areas. There was a main post exchange
2 where Marines and their family members could shop, get
3 groceries, clothing, whatever they may need. There were
4 social amenities -- movie theaters, gyms, bowling alleys.
5 There were locations where children spent a lot of time --
6 high schools, junior high schools. And there was a
7 hospital. The original Naval hospital was located at
8 Hospital Point, and it was where individuals, Marines,
9 their family members would come to receive medical
10 services.

11 Now, the Tarawa Terrace water distribution system,
12 which, again, is indicated on the screen, is in the
13 northwestern quadrant of the base, Your Honors. And Tarawa
14 Terrace is essentially a subdivision -- looks very much
15 like a subdivision at the base. It was primarily
16 residential housing units for enlisted Marines and their
17 families and their spouses and their children. However,
18 there were also -- there were also elementary schools and
19 other amenities that were present at Tarawa Terrace.

20 And then finally, Holcomb Boulevard, Your Honors.
21 I'm sorry to flip around on these, but once I lay the
22 groundwork, I think it will become clear.

23 Holcomb Boulevard is just to the north of Tarawa
24 Terrace in this area right here. Holcomb Boulevard was
25 primarily residential housing units for the Marines and

13:11:48 1 their families. There was a golf course at this location.
13:11:51 2 A new Naval hospital was opened in 1983, and so medical
13:11:54 3 services were provided at that location. And again, there
13:11:58 4 were elementary, middle, and junior high schools at Holcomb
13:12:01 5 Boulevard.

13:12:02 6 Your Honor, there have been estimates in media
13:12:05 7 reports that the base may have seen up to a million people
13:12:08 8 during the statutory time frame. Certainly, it's safe to
13:12:11 9 say that tens, if not hundreds, of thousands of folks
13:12:16 10 lived, worked, or otherwise received their water from these
13:12:19 11 three water treatment service areas.

13:12:22 12 So what happened? Well, during the early 1980s,
13:12:27 13 concentrations of -- high concentrations of volatile
13:12:31 14 organic compounds and solvents were discovered in supply
13:12:34 15 wells and the finished drinking water at Tarawa Terrace and
13:12:37 16 at Hadnot Point. Within the Tarawa Terrace water treatment
13:12:43 17 service area, investigation revealed that the source of
13:12:46 18 that contamination was a dry cleaners that was located just
13:12:51 19 north of the base, across from Highway 24. That dry
13:12:54 20 cleaners is indicated on Plaintiff's Exhibit 3, Your
13:12:56 21 Honors. And just for perspective, this is Highway 24
13:13:02 22 headed towards Swansboro, and ABC 1 Hour dry cleaners is
13:13:07 23 just on the other side of the base there. And the
13:13:09 24 investigation revealed that since the early 1950s, the
13:13:13 25 operators of ABC dry cleaners, they would dispose of a

1 chemical that was common in the dry-cleaning industry
2 called PCE, or tetrachloroethylene or perchloroethylene.

3 And the way they would dispose of this chemical
4 was they would walk outside and they would pour it in a
5 hole in the ground in the parking lot. Now, subsequent
6 investigation has revealed that that PCE filtered through
7 the sand into the groundwater below and then ultimately
8 formed a plume of toxic poison that was pooled with the
9 groundwater towards Tarawa Terrace. Unfortunately, there
10 were several supply wells that provided water to the Tarawa
11 Terrace water distribution system in this area, including
12 supply well TT-26, just a few hundred yards from ABC dry
13 cleaners. And over time, the poison was sucked up by
14 TT-26, provided to the larger water distribution system in
15 Tarawa Terrace, and provided to end users who lived or
16 otherwise obtained their water from Tarawa Terrace.

17 At Hadnot Point, there were several sources of
18 contamination. I'll detail some of them briefly. One of
19 them was a landfill located here to the north.
20 Investigation revealed that in the '40s and '50s and
21 otherwise, base operations involved dumping solvents and
22 chemicals at this landfill. They were placed in drums.
23 The drums leaked. The solvent seeped into the aquifer and
24 were pumped up by the supply wells, including supply well
25 HP-651. And as with Tarawa Terrace, they were pumped into

1 the Hadnot Point water distribution system.

2 Another source of the contamination, Your Honors,
3 was the Hadnot Point Industrial Area. The Hadnot Point
4 Industrial Area, as the name implies, is an area where
5 substantial industrial operations are occurring. This is
6 an area of warehouses. This is an area where heavy
7 equipment, tanks, vehicles, motors are stored, cleaned, and
8 maintained. And part of that maintenance and storage and
9 cleaning involve the use of poisonous solvents. And as the
10 investigation has revealed, those solvents made their way
11 into the aquifer. The supply wells pumped the poisons out
12 and distributed them out to the Hadnot Point water
13 treatment service area.

14 I want to give a little bit of additional context
15 to the Hadnot Point Industrial Area, Your Honors. This is
16 a picture of one of the Track 1 trial plaintiffs who is
17 before Your Honor.

18 Judge Flanagan, this is Mr. Gary McElheny. And
19 this picture, we believe, was taken in the early 1970s at
20 the industrial area at Hadnot Point.

21 Mr. McElheny, he's a 20-plus-year active duty
22 Marine. At this point in his life he was living at the
23 barracks -- the mainside barracks. He would be exposed to
24 the drinking water at the barracks, through water
25 fountains. He would take showers in the contaminated

13:16:18 1 water. He would eat chow at the chow hall at mainside. He
13:16:23 2 would march over to the industrial area where he would
13:16:25 3 maintain equipment and throughout the day hydrate himself
13:16:27 4 with poisonous water. And ultimately developed Parkinson's
13:16:33 5 disease several years later.

13:16:36 6 This is an additional picture of Mr. McElheny when
13:16:39 7 he was a little bit older, with his wife, Simone. And this
13:16:42 8 is just to give the Court some context about the kinds of
13:16:45 9 activities -- the nature of these activities that were
13:16:48 10 occurring at Hadnot Point. You can see a diesel motor
13:16:51 11 within the foreground, and then in the background you can
13:16:53 12 see some drums. Candidly, we're not sure what was in the
13:16:56 13 drums, but we don't believe that it was anything that was
13:16:59 14 safe to be in drinking water.

13:17:03 15 So the result of Camp Lejeune's poor chemical
13:17:07 16 management practices and the placement of the wells at
13:17:10 17 Hadnot Point and Tarawa Terrace was that Camp Lejeune's
13:17:13 18 drinking water contained hazardous levels of chemicals.

13:17:18 19 Your Honor, this Plaintiff's Exhibit 6 is a chart
13:17:21 20 from the Government's historical water modeling report
13:17:24 21 regarding Hadnot Point. And I want to walk the Court
13:17:27 22 through a couple of the points on here so the Court has a
13:17:29 23 better understanding of what we're looking at.

13:17:31 24 As I indicated, Your Honor, testing began --
13:17:36 25 actual testing of these solvents began in the 1980s. And

13:17:39 1 so where you see these squares and these circles, those are
13:17:44 2 actual test results for solvents that were in the drinking
13:17:47 3 water. The squiggly lines, reminiscent of an EKG, that is
13:17:56 4 the product of the ATSDR's historic water modeling. The
13:17:57 5 average mean -- I'm sorry, the monthly mean concentrations
13:17:59 6 of the various chemicals. And so, for instance, the pink
13:18:02 7 line reflects TCE -- the average monthly levels of TCE over
13:18:07 8 time from the 1950s all the way forward.

13:18:11 9 Your Honor, I want to point out this line right
13:18:13 10 here. This dotted line signifies the maximum contaminant
13:18:19 11 level, the MCL. And the maximum contaminant level, in
13:18:25 12 candor they did not exist for much of the time period that
13:18:27 13 was at issue in this base. But we now know, based on
13:18:30 14 science and research, the maximum contaminate level is what
13:18:32 15 the public health agencies deem is an acceptable level of
13:18:35 16 these chemicals in the water. And it's set at 5 micrograms
13:18:39 17 per liter for PCE, TCE, and benzene.

13:18:43 18 As you can see here, this May 1982 actual
13:18:49 19 measurement of TCE at Hadnot Point is over 280 times above
13:18:55 20 the MCL, the enforceable limit for TCE in drinking water.
13:19:03 21 And as you can see from the rest of the chart which details
13:19:06 22 the chemicals, they are all above what is acceptable and
13:19:09 23 what is safe for drinking water.

13:19:12 24 In 1989, Your Honors, Camp Lejeune was placed on
13:19:15 25 the EPA's National Priorities List. It was declared a

1 hazardous waste Superfund site. And as I mentioned before,
2 they are still attempting to fix the environmental damage
3 that has occurred here. But the bottom line on this first
4 issue, Your Honor -- and this is just a very high-level
5 forecast -- is that the groundwater and drinking water at
6 Camp Lejeune, at Hadnot Point, Holcomb Boulevard, and
7 Tarawa Terrace was highly contaminated.

8 I do want to clarify one thing I may have missed.
9 Holcomb Boulevard for much of the time period at issue
10 received its drinking water from Hadnot Point. It received
11 a separate water treatment system in June of 1972. But
12 before that time, drinking water that was provided by
13 Hadnot Point was provided to Holcomb Boulevard. And so you
14 will see in the ATSDR historical water modeling report that
15 the two -- Hadnot Point and Holcomb Boulevard -- are
16 treated as a joint -- a consolidated water model.

17 Now, as I mentioned earlier, turning to the second
18 issue, the ATSDR's historic water modeling, Marines and
19 scientists at the base first began testing the contaminants
20 in the 1980s. Determining the contamination levels before
21 that time period required the science of historical water
22 modeling. And historical water modeling was not conducted
23 by us. It was not conducted by the DOJ. It was conducted
24 by a government agency called the Agency for Toxic
25 Substances and Disease Registry. This was an agency that

1 was formed under the CERCLA legislation. It's a public
2 health agency.

3 And I want to stress to the Court: We are in a
4 really unique situation here. This expert report that we
5 are going to ask the Court to rely on as part of Phase I, I
6 respectfully submit this is unlike any expert report that
7 has been put before this Court and that a litigant is asked
8 to rely upon. We did not commission this report. We did
9 not pay for this report. This was a report of a government
10 agency. This was a report that was funded at great
11 taxpayer expense. And this was a report that is incredibly
12 thorough. This was a report that took years to produce.
13 And this was a report we're confident that the Court will
14 conclude is reliable and can be relied upon for purposes of
15 determining the average or the monthly mean levels of
16 contaminants in the water at Camp Lejeune.

17 Morris Maslia, a government engineer at ATSDR, was
18 the project lead at the agency at the time, and he oversaw
19 the historic water modeling. He has since retired. He is
20 a retained testifying expert for the plaintiffs. We have
21 disclosed his report.

22 Mr. Maslia at the outset in the early 2000s, when
23 he set about to create the historic water model, he brought
24 together a team of over 20 scientists from diverse subject
25 matter areas: hydrologists, geologists, engineers,

1 mathematicians. He sought their feedback. He incorporated
2 their feedback. He built a model. He used the data that
3 was available to him to create that model, and he ran using
4 statistical software and water simulation software these
5 historical water modeling simulations like the one in
6 Plaintiff's Exhibit 6.

7 I want to stress again: Why is this report so
8 unique? I submit to you, we have a report that has
9 actually been peer-reviewed. How many times in civil
10 litigation is an expert's report that's been retained by a
11 party has it been subject to peer review? And this report
12 has not been subject to peer review once. It's been
13 subject to peer review at multiple levels all along the
14 process. There were expert panels at the beginning that
15 helped provide input as to how to set up the historical
16 water modeling. When each report -- the Tarawa Terrace and
17 Hadnot Point reports were generated, they were then subject
18 to external peer review. These results were presented at
19 conferences. Feedback was obtained and it was incorporated
20 where appropriate. And these were published in two
21 peer-reviewed journals.

22 We are at the pinnacle of science. And at the
23 risk of sounding hyperbolic, I submit to you that the ATSDR
24 water modeling report truly is an engineering feat and it
25 is something to behold. And the Capstone to that, in 2015,

13:23:43 1 based on the work at the ATSDR, the work of Mr. Maslia and
13:23:47 2 his team, they were awarded the grand prize for Excellence
13:23:50 3 in Environmental Engineering and Science by the American
13:23:53 4 Academy of Environmental Engineers. It's not just that
13:23:58 5 it's been peer-reviewed. It's not just that it's been
13:24:00 6 thorough and no expense was spared. The Government right
13:24:04 7 now, the Department of Veterans Affairs, is relying at
13:24:07 8 least in part on this water model to make determinations
13:24:10 9 about was something service connected, who should receive
13:24:14 10 disability benefits. There's substantial reliance
13:24:18 11 interests baked into the ATSDR historic water modeling
13:24:21 12 report.

13:24:22 13 And so the bottom line, Your Honors, is the water
13:24:23 14 modeling is thorough. It's rigorous. It's multitime
13:24:27 15 peer-reviewed. It's award winning. It easily meets the
13:24:32 16 standard for admissibility, respectfully, under *Daubert*.
13:24:37 17 And we will ask the Court at the appropriate time -- and we
13:24:39 18 hope soon -- to use this as the baseline, as the
13:24:43 19 cornerstone and the foundation, to resolve these cases.

13:24:47 20 Now, my friends on the other side, they have no
13:24:49 21 alternative model. They don't have an alternative water
13:24:54 22 model. What they have done -- after the scientific
13:24:58 23 community passed upon the ATSDR, they have retained outside
13:25:02 24 experts who have lobbed various criticisms at the water
13:25:06 25 model. They're poking at the outset -- at the outside of

1 the water model attempting to undermine its reliability.
2 And in the appropriate forum, we have an answer for all of
3 their criticisms. But at the highest level, the most
4 fundamental premise is that much, if not all, of these
5 criticisms either were or could have been raised through
6 these multiple peer-review steps. And it's our submission,
7 Your Honor, that it's inappropriate for the Department of
8 Justice to come back after the fact and to substitute or
9 attempt to substitute its judgment on a scientific matter
10 the scientific community has so readily resolved and
11 accepted. That's what they're going to do. We are proud
12 to defend the reliability of the Government's water model
13 and we believe the Court should have great confidence in
14 that water model.

15 I do recognize -- and I won't have an opportunity
16 to address the Court on rebuttal -- or potentially won't.
17 I want to give an example of some of these criticisms that
18 may be brought up during the Government's presentation.

19 There is a chart in the Government's presentation
20 that shows these four graphs. And the purpose, we believe,
21 although I haven't heard their presentation, is that this
22 shows that the water model is biased high. That the
23 monthly mean concentrations, in their view, actually -- the
24 simulated line here is higher than the observed line.
25 You'll hear that, "It's biased high. It's biased high."

1 Again, these matters were considered during peer review.

2 But in any event, what they have not presented in
3 their slides is that these particular examples, the overall
4 contribution of these supply wells that supposedly were
5 biased high, are minuscule. The main contributor to the
6 finished water at Tarawa Terrace was TT-26, the well I
7 showed you just a few hundred feet from ABC dry cleaners.
8 It contributed far more finished water to the overall
9 Tarawa Terrace water treatment plant. And as you can see,
10 and we can explain this with scientists, that the model
11 rides right in the middle of these observed volatile
12 organic compound measurements. We wanted to make sure the
13 Court knew that because we believe this is going to be
14 presented.

15 And additionally, the Government's taken the
16 position that the ATSDR says you shouldn't use this report.
17 You should not use this report because the ATSDR has said
18 as much. And they have put before the Court a partial
19 quote from a 2007 water treatment plant -- water treatment
20 historical model. And in essence -- you can read it for
21 yourself, but it says the "ATSDR's exposure assessment
22 cannot be used to determine whether you, or your family,
23 suffered any health effects as a result of past exposure to
24 PCE-contaminated drinking water at Camp Lejeune."

25 This is not the last word from the ATSDR on this

13:28:09 1 matter. In a subsequent report in 2009, the ATSDR inserted
13:28:13 2 the word "alone" right there. This is not in the
13:28:17 3 Government's slides. But we want the Court to be aware of
13:28:20 4 it. And what the ATSDR has subsequently said in its last
13:28:23 5 word is, this is one tool that individuals can use as part
13:28:27 6 of a holistic analysis to determine whether their exposure
13:28:32 7 caused their disease. We don't want the Court to be left
13:28:35 8 with the missed impression that this was the last the ATSDR
13:28:38 9 ever had to say about this.

13:28:41 10 Your Honors, in conclusion, the evidence is
13:28:45 11 overwhelming that Camp Lejeune and the water at Tarawa
13:28:49 12 Terrace and Hadnot Point and Holcomb Boulevard was heavily
13:28:52 13 contaminated. The evidence is also overwhelming that the
13:28:56 14 ATSDR used reliable methods and tools to re-create the
13:28:59 15 historical monthly mean concentration of chemicals in the
13:29:02 16 water at Camp Lejeune. Those monthly mean concentrations
13:29:05 17 from the Government's own reports are reliable evidence
13:29:09 18 that this Court and the litigants in this case can and
13:29:14 19 should rely upon.

13:29:14 20 Your Honor, we appreciate the Court's willingness
13:29:17 21 to hold this hearing. As you indicated, it's generated a
13:29:19 22 lot of interest. We hope that this has been helpful to the
13:29:22 23 Court and we stand ready to answer any questions you may
13:29:24 24 have. And thank you very much.

13:29:26 25 THE HONORABLE CHIEF JUDGE MYERS: Thank you,

1 counsel.

2 Counsel for the United States.

3 MR. BAIN: May it please the Court, Adam Bain for
4 the United States.

5 Individual exposure is essential to the Camp
6 Lejeune Justice Act's causation requirement. This was
7 stated in the Court's order of June 5th, 2024. The
8 questions regarding water contamination are what was in the
9 water, where was it, and when was it there. These are
10 complex questions, and there are two factors that
11 contribute to the complexity.

12 First, only two of the nine water systems at Camp
13 Lejeune were supplied by contaminated wells, and the
14 primary contaminate was different in each of the two
15 systems.

16 Second, for most of the time covered by the Camp
17 Lejeune Justice Act there is no data at all about the
18 concentrations of contaminants in those systems. I would
19 like to cover each of those factors in turn in detail.

20 With respect to the contaminated water systems at
21 Camp Lejeune, it's important to know or to recognize that
22 Camp Lejeune is a very large geographic area. This map,
23 Government Exhibit 1, shows the relative size of Camp
24 Lejeune in comparison to the Raleigh metropolitan area. It
25 takes a long time to get from one part of Camp Lejeune to

1 another. People lived and worked at different areas on the
2 base and these areas can be quite distant from one another.
3 Some of the areas at Camp Lejeune were served at times by
4 contaminated water supply systems but others were not.

5 This map, Government Exhibit 2, depicts the nine
6 water supply systems that operated at different times
7 during the history of Camp Lejeune. The contaminants of
8 concern in this litigation, primarily perchloroethylene,
9 PCE, and trichloroethylene, TCE, were only detected in
10 wells that served the Hadnot Point and the Tarawa Terrace
11 systems. These contaminants have not been detected in the
12 wells that served the other water supply systems. In
13 particular, there are systems west of Tarawa Terrace -- and
14 you can see on this map Camp Johnson, Camp Geiger, Marine
15 Corps Air Station New River, rifle range -- that were not
16 contaminated with these chemicals. Some of the Track 1
17 trial plaintiffs spent most, if not all, of their time in
18 areas served by uncontaminated water systems. For example,
19 Plaintiff Badonna [phonetic] was only at Camp Johnson. If
20 an individual was stationed or lived in one of these areas,
21 the opportunity for exposure is much less than for those
22 who lived or worked at Tarawa Terrace and Hadnot Point. In
23 the areas west of Tarawa Terrace, such as Camp Geiger and
24 end pass New River, had their own mess halls. They had
25 their own amenities, such as stores or barbershops. They

1 had their own service clubs. They even had their own
2 recreational facilities, such as movie theaters and
3 bowling alleys.

4 To be exposed to contaminants, individuals in the
5 areas west of Tarawa Terrace would have had to travel from
6 where they lived or worked -- and in most instances, quite
7 a distance -- to the other side of the base. The
8 plaintiffs want you to believe that people were going from
9 these areas to Hadnot Point all the time. But to get to
10 Hadnot Point from the Air Station or from Camp Geiger, you
11 have to travel nearly 15 miles and go through the main
12 gate. And the rifle range is even further away.

13 Additionally, it's very unlikely that they had
14 contaminated water brought to them since they had their own
15 water systems. We anticipate calling historians in Phase I
16 to discuss the historical development of the different
17 water systems and what the historical record shows about
18 movement of individuals from one part of the base to the
19 other.

20 Now, a second complexity with respect to the
21 exposure issue is the lack of data regarding the
22 contamination of the Tarawa Terrace and Hadnot Point water
23 supply systems. Government Exhibit 3 shows that during
24 most of the period covered by the statute, there is no data
25 regarding the contamination. The only data is from the

1 1980s. There's no data from the '70s, the '60s, or the
2 '50s.

3 The plaintiffs, as you've heard, want the Courts
4 to rely on the ATSDR's water model to provide precise
5 chemical concentrations for individual exposures during the
6 periods where there's no data. But that wasn't the purpose
7 of the ATSDR's water model. The ATSDR specifically warned
8 the public not to use the model in this way. In *Daubert*,
9 the Court stated that an expert opinion must fit the issues
10 in the case. The Court stated a fit isn't always obvious
11 and that scientific validity for one purpose isn't
12 necessarily scientific validity for another purpose. So
13 it's important for the Court to consider the purpose of the
14 ATSDR's water model and whether it fits the individual
15 exposure issues in this case. That's the way the
16 plaintiffs are trying to use it.

17 The purpose of the ATSDR's water model wasn't to
18 provide precise exposure numbers for individuals to
19 determine what their exposure was and whether it was caused
20 by the contamination. And that's how the plaintiffs are
21 trying to use it. Instead, the ATSDR's water model was to
22 support the ATSDR's health studies. These studies looked
23 at relative exposure levels of different populations or
24 groups of individuals to evaluate the risk of disease.

25 Ultimately, the ATSDR's health studies, as

1 Mr. Dowling mentioned, supported the VA's presumptive
2 decision-making for disability determinations and for
3 healthcare costs for certain health conditions. Because
4 the ATSDR's model was to determine relative exposure levels
5 for groups, it did not need to be precise and accurate with
6 respect to individual exposure levels. And this is
7 particularly the case regarding when the contamination
8 began at Camp Lejeune and these different water systems.
9 In fact, the ATSDR's water model was based on many
10 assumptions and incorporated complex environmental models.
11 This makes it highly uncertain and unreliable for the
12 purpose the plaintiffs are seeking to use it in this case.

13 Government Exhibit 4, which is the map that
14 Mr. Dowling presented, shows some of the important features
15 that affected the modeling effort. The first important
16 feature is the source of the contamination. For Tarawa
17 Terrace, as you heard, the source was the ABC Cleaners
18 depicted by the red square at the top. For Hadnot Point,
19 as you heard, the sources are the landfill and the
20 industrial area depicted by the shaded areas in the middle
21 of the map.

22 The second important feature is the water supply
23 wells that are depicted by the blue dots on the map. You
24 see for Tarawa Terrace there were a few water supply wells
25 that are located in the central part of that area. For

1 Hadnot Point, there are several water supply wells located
2 throughout the area.

3 So to provide the relative group exposure
4 information for the ATSDR's epidemiologists and health
5 scientists, they needed to fill the decades-long data gap
6 for the years prior to the 1980s. They had to address
7 important questions about when the chemicals first got into
8 the environment, about how quickly the chemicals traveled
9 to the water systems, and about the general levels of
10 chemicals in the water systems over time.

11 What did they do? They performed several
12 different analyses to answer these questions.

13 First, they needed to determine when did the
14 contaminants enter the environment at the source areas.
15 This required making assumptions about events that occurred
16 decades earlier.

17 Second, they needed to determine how does
18 groundwater move at Camp Lejeune. This involved using a
19 complex groundwater model called MODFLOW.

20 Third, they needed to determine how were chemicals
21 transported through the groundwater. This involved using
22 yet another complex environmental model called MT3DMS.

23 Finally, they needed to make assumptions about how
24 the well supplied water to the treatment plants. Because
25 there were many wells and only a few of them were

1 contaminated. And all of these wells were not pumping all
2 the time. They were rotated in and out of service. Each
3 step that the ATSDR water modeling team did required them
4 to make assumptions, and each assumption adds an additional
5 layer of uncertainty with respect to the water model's
6 ability to reflect reality.

7 But the ATSDR water model was never intended to
8 reflect reality of individual exposure with accurate and
9 precise concentration levels. And to give you one example:
10 The ATSDR's water modeling did not try to determine how
11 much of the chemicals were lost when the water was
12 transported from the water supply wells to the tap.

13 The next exhibit shows how water moves from supply
14 wells to the tap. It goes first to a raw water reservoir.
15 It is then treated in spiractors, which are conical tanks
16 that soften water. It then goes through sand filters to
17 remove dirt. It is stored again in reservoirs and water
18 towers. And then it is distributed through pipes to the
19 tap. At each of these steps, contaminants are lost to the
20 atmosphere because these chemicals readily volatilize,
21 which means they disburse in vapor form when exposed to the
22 air. ATSDR's water modelers did not account for this loss,
23 which is what they would have done if they were trying to
24 determine precise and accurate individual exposure levels.

25 But that analysis was not necessary for

1 determining relative exposure levels for groups of
2 population for the epidemiology studies. As you can see in
3 Government's Exhibit 6, the ATSDR acknowledged the
4 uncertainties in the water model, uncertainties due to the
5 reconstructed inputs, that is, where the chemicals were
6 released, and uncertainties due to the pumping schedules
7 for the water supply wells.

8 Government Exhibit 7 shows -- and you saw this
9 before. But what it shows -- and it's several instances --
10 is the results of the models did not pick the few data
11 points available. The four graphs represent water supply
12 wells at Tarawa Terrace. The dots show the actual measured
13 concentrations of the chemicals and the lines show the
14 values produced by the model. As you can see, the model
15 results do not fit the measured concentrations.

16 The next exhibit, Government Exhibit 9 [sic],
17 shows how different assumptions about when the contaminants
18 entered the environment affects the results of the ATSDR
19 model. For Hadnot Point, no one knows when the releases
20 occurred. If you look at the black dots at the right of
21 the graph, you'll see those are the measured
22 concentrations. Those are the actual measured
23 concentrations that were taken.

24 Going back to the graph. If you see each line to
25 the right and went over -- I mean, excuse me. Starting at

1 the left and going over to the right, each line reflects a
2 different assume date when contamination entered the
3 environment at Hadnot Point. The ATSDR was here testing
4 the sensitivity of the model to the selection of different
5 release dates. The date the ATSDR selected was not based
6 on any historic information about when the release
7 occurred, but rather on an assumption about when storage
8 tanks would likely have started leaking. The date selected
9 does not make a big difference in the later years where you
10 see that the lines coalesce, which is during the period of
11 the epidemiological studies. However, it does make a big
12 difference in the earlier years which includes the period
13 covered by the Camp Lejeune Justice Act.

14 Given the lack of data and the level of complexity
15 built into the model, the chances of achieving a precise
16 and accurate historic exposure for any individual is about
17 the same as hitting a moving target in a hurricane. It
18 just can't be done. For example, you can't say based on
19 this graph that a person at Hadnot Point in 1970 was
20 exposed to ten parts per billion of TCE in the water. But
21 what you can say, and this model allows you to say, is that
22 the people drinking water at Hadnot Point in the 1980 to
23 1985 time frame likely had a higher relative exposure than
24 those drinking water in the 1970 to the 1973 time frame.
25 The relative exposure levels can be derived from the

1 results of the model to allow the ATSDR health scientists
2 to analyze whether a greater exposure to the chemical
3 results in a greater risk of disease by comparing, for
4 example, the incidence of disease for those who were there
5 between 1980 and 1985 to those who were there between 1970
6 and 1973.

7 Government Exhibit 9 shows that at the time the
8 ATSDR was clear that the model was not intended to produce
9 actual exposure levels for individuals.

10 Government Exhibit 10 shows that the ATSDR's
11 purpose here -- it was not to produce actual exposure
12 levels or the actual concentrations of contaminants in the
13 water, but to rank groups of individuals based on their
14 relative exposure levels. The ATSDR can use the results of
15 the water model to group individuals into exposure
16 categories based on when they were at Camp Lejeune
17 historically, where they lived or worked, and how long they
18 were there. They used the graphs that represented the
19 results of the model to make relative rankings of groups of
20 individuals for each chemical.

21 Government Exhibit 11 is the graph that the water
22 model produced for Tarawa Terrace. The most prevalent
23 contaminant of concern was PCE, represented by the red
24 line. The other chemicals are reflected in the other
25 lines.

1 Government Exhibit 12 is the graph that the water
2 model produced for Hadnot Point where the most prevalent
3 chemical concern was TCE, represented by the blue line.

4 Using this information, ATSDR's health scientists
5 were able to group individuals into categories of low,
6 medium, and high exposure and analyze the risk of disease
7 for relationships. In epidemiology, you're looking for a
8 dose-response relationship: Does the risk of disease
9 increase with greater levels of exposure? If it does, it
10 may support a conclusion that the chemical causes the
11 disease. If you don't see a relationship, it doesn't
12 support that conclusion.

13 Government Exhibit 13 shows one of the
14 dose-response analyses that the ATSDR health scientists
15 used to look for this relationship. There are dozens of
16 these analyses throughout the ATSDR's Camp Lejeune health
17 studies and you will hear about them in the general
18 causation phase. As you can see from this chart, there are
19 categories of low, medium, and high exposure groups that
20 were determined using the ATSDR's water model. Here, it
21 was for the cumulative exposures to all of the chemicals.

22 The HR, or the hazard ratio, which is the
23 left-hand column for each category, shows the risk of
24 disease in comparing Camp Lejeune to Camp Pendleton. If
25 you look at non-Hodgkin's lymphoma, for example, which is

1 the second line from the bottom, there is no dose-response
2 relationship because the risk decreases from the low to the
3 medium exposure group before increasing in the high
4 exposure group. So in this instance, it does not support
5 that non-Hodgkin's lymphoma is caused by these chemicals.

6 This is just one of many, many analyses that the
7 ATSDR did. This, this was the purpose of the ATSDR's water
8 model. Not to determine actual exposure levels for
9 individuals, which is how the plaintiffs are trying to use
10 it, but to see if the different exposure levels can say
11 anything about whether these chemicals cause disease. In
12 fact, the ATSDR repeatedly stated that it cannot be used
13 for this purpose.

14 And you saw the example, but here it is again,
15 Government Exhibit 14. This is just one example.

16 To quote *Daubert* again: The scientific validity
17 for one purpose is not necessarily scientific validity for
18 other unrelated purposes.

19 To be clear, we are not arguing that no plaintiff
20 can prove exposure in this case. The Fourth Circuit, in
21 the *Westbury* decision, set the standard. A plaintiff must
22 demonstrate the levels of exposure that are hazardous to
23 human beings generally as well as the plaintiff's actual
24 level of exposure. The Court there also recognized the
25 precise quantitation of exposure is often not available and

1 is not required. But in that case, the Court noted that
2 the plaintiff had produced some evidence of substantial
3 exposure.

4 The problem with reliance on the ATSDR's model for
5 exposure levels is it gives an appearance of individual
6 accuracy and precision which wasn't intended by the ATSDR.
7 Therefore, it is highly prejudicial, particularly for the
8 early years, when speculative assumptions can make a big
9 difference. For this reason, in Phase I, the United States
10 intends to call two environmental experts. One expert, a
11 water modeling expert, will testify regarding the
12 uncertainty and biased assumptions in the ATSDR's water
13 model that make it highly unreliable for determining
14 individual exposures. The other expert, a geochemist, will
15 testify based on environmental science, when the
16 contamination likely arrived at the different water systems
17 and what contamination was in the systems at different
18 times. The reliable scientific evidence will show that
19 contamination arrived at Tarawa Terrace sometime in the
20 1970s and at Hadnot Point water system sometime after 1972.

21 Plaintiffs at Camp Lejeune, beginning in the
22 1970s, may be able to prove substantial exposure based on
23 where they lived and worked at the base and how long they
24 were there. The model is not relevant to individual
25 exposure. We believe the Court will benefit from hearing

1 from those experts at an evidentiary hearing. Thank you.

2 THE HONORABLE CHIEF JUDGE MYERS: Thank you,
3 Mr. Bain.

4 I'm going to open it up to my colleagues to ask
5 questions. I have a couple. I'm going to abuse my rank
6 and ask a couple first.

7 I don't see confidence intervals anywhere in these
8 models, and there has to be for them to be scientifically
9 valid. What confidence intervals are we talking about
10 inside the models that says we have 10 percent confidence,
11 it's this; 90 percent confidence, it's this. What are the
12 ranges and what's the dispersion and is that accounted for
13 in the ATSDR or is the fact that the ATSDR is being used
14 for a different purpose mean that that was not necessary to
15 its modeling and, therefore, not included. I don't see
16 anything that looks like a confidence interval in the
17 materials that were presented.

18 And the second question is: When do we break in
19 that -- there's that set of exposure -- possible --
20 exposure possibilities that the model accounts for, that
21 says if we model it, it's this at this level of confidence
22 but it could go back this far and still -- if the latest
23 model -- or the least -- or the latest time of exposure
24 results in the same model relative to measurement, as a
25 party with the burden, why are we not looking at the party

1 with the burden's ability to prove anything greater than
2 that if that is sufficient to result in the model -- or for
3 the model to account for the actual known exposure.

4 And the other thing, whenever you're talking about
5 models of this kind: When the models themselves are
6 applied and they fail to account for the known
7 measurements, what does that say about the validity of the
8 model itself?

9 Those are some questions that I'm starting with
10 because we're operating for a significant period -- it
11 looks like our measure date is very late. Very late. And
12 now we've got to model it backwards. And so the question
13 is: As the party with the burden, what is the party with
14 the burden's responsibility for going beyond the least
15 permissible exposure to result in the ultimate observed
16 amount?

17 MR. DOWLING: Your Honor, we brought someone with
18 a law degree and who I understand is also -- or at one
19 point in her career was an engineer. And your question is
20 squarely in the heartland of something she is better suited
21 to answer, if the Court will indulge. Ms. Laura Baughman.

22 THE HONORABLE CHIEF JUDGE MYERS: Okay.

23 MS. BAUGHMAN: Your Honor, Laura Baughman for the
24 plaintiffs.

25 I don't know if I got all of your questions. I'll

1 try to address them. But definitely the ATSDR addressed
2 the issues that you have raised.

3 In terms of the confidence interval, what they did
4 is they did sensitivity analyses and uncertainty analyses
5 to make sure that the model is reliable. And at every
6 stage those were reviewed by the outside experts in the
7 panel and the individual chapters. So the sensitivity
8 analyses will look at how sensitive is the model to the
9 different parameters that the DOJ attorney, Mr. Bain,
10 raised.

11 In the uncertainty analysis, they did -- they did
12 do 2.5 to 97.5 percent, what were the levels, what were the
13 confidence intervals. That was done for Tarawa Terrace.
14 For Hadnot Point, there was an uncertainty analysis done
15 with respect to the pumping schedule, which is an issue
16 that was raised by the DOJ. And then there were
17 sensitivity analyses done for different parameters, which
18 is part of an uncertainty analysis. All of that is
19 addressed in the expert report -- in our expert reports and
20 based on what the ATSDR did backwards in time.

21 I'm not sure -- I think you raised some other
22 issues --

23 THE HONORABLE CHIEF JUDGE MYERS: So the question
24 becomes we have -- we say it could be -- it could have
25 started in 1952 and the model would account for the

1 ultimate observed number. It could have started in 1959
2 and the model would equally account for the same observed
3 number. It could have started in 1963 and the model would
4 account for the same observed number. As the party with
5 the burden, if the model accounts -- which of those do we
6 do? Do we say the one that results in the most liability,
7 the least liability, the observed liability relative to the
8 party with the burden of proof? We say, well, it could
9 equally be accounted for -- from having started in 1969,
10 shouldn't we discount to zero before 1969?

11 MS. BAUGHMAN: So let me answer that. There are,
12 obviously, two different models for two different areas and
13 there are two different types of -- there are different
14 ways -- sources, in other words, of contaminants.

15 THE HONORABLE CHIEF JUDGE MYERS: Right. I'm
16 looking --

17 MS. BAUGHMAN: So that's a very complicated
18 question. But if we go to Tarawa Terrace, which is the
19 easier one to talk about, we know that the source is --
20 uncontested, is the ABC 1 Hour dry cleaners. Right? And
21 we know there are some dispute about did they start
22 operating at the beginning of 1953 or the middle of 1954.
23 It turns out that that makes very little difference. So
24 even if, you know -- DOJ admits that they started operating
25 in the middle of 1954. We think it might have been

1 somewhat earlier by a year or so. It doesn't matter at the
2 end of the day in the analysis we've done -- we've done the
3 analysis to show that in our expert reports.

4 But the bottom line is we know it started then and
5 we know that within a couple of years that contamination
6 would hit the groundwater and start moving toward the
7 supply wells. So it's an easier answer to your question, I
8 think, in Tarawa Terrace.

9 In Hadnot Point, you have the industrial area and
10 then you have the landfill area. So there are different
11 sources there. Right? So in the landfill -- well, let me
12 talk about the -- in the industrial area, what you had were
13 multiple underground storage tanks. Okay. We don't know
14 for certain when any given underground storage tank leaked.
15 But what ATSDR relied upon is a study that was done by the
16 U.S. Environmental Protection Agency that looked at over a
17 hundred thousand different underground storage tanks around
18 the country and looked at how long does it take for the
19 underground storage tanks to leak. And they determined
20 that it takes -- a median number, I believe, was nine
21 years. So they used nine years as the estimate of when
22 there would be leaks from the underground storage tank.

23 Now, we know there were leaks. Right? We know
24 contaminants got to the water, and we know by the early
25 1980s it was in the water. But -- so that was a reasonable

13:55:57 1 assumption. Then they did -- since to the uncertainty
13:56:02 2 analysis, well, if it was -- if it was nine years before or
13:56:05 3 nine years after, how did that affect the analysis?

13:56:07 4 So this is a reliable methodology to answer your
13:56:10 5 question. But you're saying, well, how, then, do you know
13:56:13 6 for an individual person what was their exposure? So I
13:56:16 7 think that -- that's really a Phase II or a Phase III
13:56:20 8 question, not a Phase One question. Because -- because
13:56:23 9 you'll have a scientist, a medical doctor, come in --
13:56:27 10 assuming -- assuming general causation, that this person's
13:56:31 11 cancer could be caused by the chemical. Right? When you
13:56:33 12 get to specific causation, you would be looking at, well,
13:56:36 13 was it enough? You can look at the range. Right? And you
13:56:38 14 know at least the lowest number and you know what the
13:56:41 15 midpoint is. And then you'll have that expert say, well,
13:56:44 16 was that enough to cause the disease?

13:56:47 17 And we do have the burden of proof. I understand
13:56:49 18 that. But it's a -- it's an equipoise. Right? It's not
13:56:53 19 more likely than not or as likely as not. So you would
13:56:56 20 look at what the model generated. Right? And what those
13:56:59 21 ranges were, and compare it to what the science says about
13:57:02 22 how much do you need, and make a decision for that person.

13:57:04 23 So what I don't think you're going to get from
13:57:07 24 Phase I is a determination of these were the exact numbers.
13:57:11 25 What ATSDR said is this was the most likely number, and

1 then here is the range and here is how sensitive it is and
2 here is how uncertain it is. So it's a reliable
3 methodology under *Daubert*, but it has to be used in
4 context. And the medical experts will use it appropriately
5 in that context.

6 I didn't answer all of the -- like, there are
7 landfill sources as well, and they may -- ATSDR made
8 assumptions based on that because you had a landfill that
9 started when Hadnot Point opened in the early 1940s. They
10 didn't take any kind of precautions, which was normal at
11 the time, to make sure that those chemicals didn't seep
12 into the water. So they made an assumption of seven years.
13 It would take seven years from the time the landfill
14 started operating for those chemicals to leach into the
15 groundwater, which I think is a very conservative
16 assumption given the standards at the time, which was not
17 to have any kind of liner or containment to protect
18 those -- from those chemicals from reaching the
19 groundwater.

20 So I'm not sure if I've addressed all of your
21 questions. But those are the kinds of methodologies that
22 the ATSDR used. And again, each of those received
23 substantial peer review from outside of ATSDR before they
24 were finalized and put on the ATSDR's website and relied
25 upon.

1 THE HONORABLE CHIEF JUDGE MYERS: And we've used
2 the term "scientific community." There's no such thing.
3 It had to be particular individual scientists who actually
4 made a determination. And so I'll just say right now that
5 this judge is not going to be convinced by *scientific*
6 *community at large*. That's not a thing. There is no
7 such -- I can't go talk to the scientific community
8 anywhere. So I don't find that particularly persuasive.
9 So I want to know who they were, how they were selected,
10 why those decisions were made. Not just that broad, just,
11 position.

12 MS. BAUGHMAN: I can answer some of that now, but
13 that was --

14 THE HONORABLE CHIEF JUDGE MYERS: I don't think
15 it's for today's purpose. I think it's for as we're
16 putting together, what is this judge going to have to look
17 at and rely on. There are levels of specificity as opposed
18 to generality that will be significant to me in coming to
19 determination when I'm talking to the party with the
20 burden.

21 Did you want to respond, Mr. Bain?

22 MR. BAIN: I would ask our lawyer engineer to
23 respond to some of that as well. Your Honor, this is
24 Ally O'Leary.

25 MS. O'LEARY: Good afternoon, Your Honors. I want

1 merely to address the initial part of your question, which
2 is what are the confidence intervals on these -- on the
3 simulated numbers predicted by the ATSDR. And the answer
4 is we don't know. They don't exist. We do not know the
5 universe of possible solutions to how contamination entered
6 the environment and moved through the groundwater to arrive
7 at the wells that cause contamination in the water. The
8 number of ways that that could have occurred is infinite
9 and, more importantly, quite varied in time.

10 The ATSDR did do uncertainty analyses and
11 sensitivity analyses to try and assess some of the range of
12 what that confidence can be. But in their assessment
13 confidence intervals, they were using a limited range of
14 parameters which is smaller than what could have actually
15 happened at the site. So they just don't know.

16 What they do know from their sensitivity analyses
17 are that the time that contaminants entered the environment
18 and the timing and amount that the specific contaminated
19 wells pumped matter significantly for the outcome of their
20 models. And they do not know when those contaminants
21 entered the environment, particularly at Hadnot Point. And
22 they do not know when those wells were pumping,
23 historically, or even how much.

24 So the answer is, we do not know the confidence
25 intervals.

14:00:58 1 THE HONORABLE CHIEF JUDGE MYERS: Thank you.

14:00:58 2 I'll defer to my colleagues.

14:01:06 3 THE HONORABLE JUDGE FLANAGAN: Well, do you have a
14:01:07 4 plan for an alternative water model?

14:01:10 5 MR. BAIN: As I mentioned, Your Honor, we have
14:01:12 6 experts who will be able to say what can reliably be said
14:01:16 7 given what we know about when the contaminants arrived and
14:01:20 8 when -- and what -- generally what contaminants were there
14:01:25 9 over time. We don't have a alternative water model
14:01:29 10 because, frankly, given the lack of data, there is no way
14:01:33 11 reliably to determine these decades past what the actual
14:01:38 12 concentrations were. And it was not done for that purpose
14:01:41 13 by the ATSDR, as I mentioned.

14:01:50 14 THE HONORABLE CHIEF JUDGE MYERS: All right. I
14:01:52 15 think we've met the purpose of today's presentations, which
14:01:58 16 are really a forecast to help sharpen the issues. My
14:02:03 17 questions were designed to sort of forecast for the parties
14:02:07 18 where my interests are. I'm interested in knowing what the
14:02:12 19 limits are of the science. At some point you run out of
14:02:15 20 science because you've run out of data and you're into
14:02:18 21 speculation. And so I don't want us -- I don't want us to
14:02:24 22 spend too much time today on that except to know it's a
14:02:28 23 significant issue for this judge. My colleagues may view
14:02:32 24 this quite differently. I don't wish to speak for them.

14:02:35 25 But it does raise the question of ultimately,

1 after we've received the full presentations with the expert
2 reports and materials, is a hearing going to be necessary.
3 I think we will defer an answer to that question today. I
4 know it's a question that's been on the parties' mind.
5 Because we can't tell until we've seen everything and had a
6 chance to talk as the judges about where and -- where we
7 see the particular issues are. But we would try to focus
8 the parties if we're coming to a hearing, we want
9 additional information on a particular point.

10 This is very unusual because we are four District
11 judges who are hoping to establish something that becomes
12 reliable for the litigants about exposure, and we will seek
13 to work together to do that. But then we each have
14 individual diseases. We have individual cases, we have
15 individual exposure quantities. Because nobody had the
16 same experience while they were at Camp Lejeune. And so
17 this will very quickly devolve from a group dynamic, I
18 think, back to individual judges and individual cases.

19 We are going to rearrange the docket such that
20 causation as to individual diseases on Track 1 and then
21 again on Track 2 will be before an individual judge who
22 will be hearing and making appropriate determinations on
23 disease-by-disease causation so you're not having four
24 opinions as to whether or not bladder cancer is caused by
25 exposure to TCE. So we'll try and get those rearranged in

14:04:09 1 such a way that by the time we're into the tracks, you'll
14:04:13 2 be before a single judge as to a disease and then -- that
14:04:16 3 will get us general causation, and then we'll move forward
14:04:18 4 on specific causation, because those cases will be on a
14:04:21 5 single judge's docket.

14:04:22 6 The other thing that I'm going to say as the Court
14:04:29 7 is we appreciate the years of work that have gone into
14:04:33 8 this. I want to particularly note the presence of our
14:04:38 9 magistrate judges. Judge Jones and Judge Gates are here,
14:04:42 10 and they have been working very hard with the parties on
14:04:44 11 routine meetings. I'm trying to get the discovery done on
14:04:48 12 these issues so that we can bring this down to the issues
14:04:51 13 before the Court.

14:04:52 14 I know that there are family members out there of
14:04:54 15 people who are aging and some of whom are ill, and we are
14:04:58 16 not blind to that. Justice delayed can be justice denied,
14:05:03 17 and we fully intend to hear these in a way that gets the
14:05:07 18 most people's cases resolved in the most expeditious way
14:05:11 19 possible. So I'm very grateful to all of the judges of
14:05:14 20 this Court, and particularly to our magistrate judges who
14:05:17 21 are working so hard to get these cases properly litigated
14:05:22 22 and to get settlement proceedings working in such a way
14:05:25 23 that we can take care of the people who Congress wants
14:05:29 24 taken care of and make sure that resources go appropriately
14:05:32 25 to the people who deserve them and not otherwise.

1 We recognize that there are significant balancing
2 taking place amongst all of the people in the courtroom,
3 and I would like to commend the attorneys for working in
4 good faith. All the reports from the magistrate judges
5 have been that the Plaintiffs' Leadership Group is working
6 very hard, the United States is working very hard. And we
7 commend to the parties to continue working in good faith so
8 that we can get these issues resolved in a way that makes
9 sense.

10 Any of my colleagues like to make any further
11 comment?

12 THE HONORABLE JUDGE DEVER: I would echo the
13 Chief's comments about how hard all of y'all have been
14 working for the last two years, and we appreciate that hard
15 work. And we've tried to, obviously, set these things up
16 in tracks to maximize the number of cases that can get
17 resolved as expeditiously as we can.

18 And I also want to compliment the settlement
19 masters who the Court appointed to try to help facilitate
20 some resolution short of trial of tens of thousands of
21 cases, in terms of trying to come up with a matrix that is
22 acceptable, even if not perfect, to the multitude of folks
23 who have filed claims. Perfect is always the enemy of
24 better in most everything.

25 And so, again, I thank you for all of your hard

1 work and thank the settlement masters again for their
2 continued efforts to try and come up with a framework for
3 the parties to potentially reach a resolution sooner rather
4 than later.

5 THE HONORABLE JUDGE BOYLE: I'm here as part of
6 the Court, and I'm looking forward to a day when we can say
7 that we've satisfactorily resolved these cases, either by
8 trial or by settlement or by dismissal, with whichever is
9 appropriate. I know that the Court and my colleagues are
10 dedicated to the administration of justice in this -- on
11 this issue, and I look forward to working with them in the
12 future.

13 THE HONORABLE JUDGE FLANAGAN: For those of you on
14 the periphery who may not have command of the master docket
15 but want very much to know more about what this Court's
16 been doing, I commend for your reading the docket entry
17 numbers 333, a notice that was provided by the judges
18 before this hearing in summary, and the settlement master's
19 most recent status report at docket entry number 340.

20 And we're all well aware how expensive this
21 litigation is. And with the august assembly in front of
22 us, I would personally regret if I didn't ask: Is there
23 anything else that if we talked about now where we all
24 share Rule One's mandate to look for just, speedy, and
25 inexpensive ways to resolve the cases before the Court, now

1 being very sensitive to this disagreement about the water
2 table, is there anything else, perhaps a significant
3 disagreement or maybe a shared determination, that if you
4 spoke very briefly about it now would be helpful to us in
5 our planning?

6 Is there anything else from the plaintiff's side
7 of the room you would like us to know?

8 MR. DOWLING: Your Honor, I think it's --
9 consistent with what the Court has said, we understand this
10 needs to proceed in an orderly fashion, and methodically
11 and in a thorough way. But I do believe that nothing
12 sharpens the mind and resolves disputes like a deadline,
13 like a trial date. And so as many of those as we can
14 foresee coming down the road.

15 I'll give you an example. We struggled to find
16 our footing on the stipulations for quite a while, didn't
17 really know where to begin. And I think -- I probably
18 speak for both of us. When we got the notice, the message
19 was loud and clear that we needed to get moving on that.
20 And I'm happy to report that we have traded some drafts of
21 substantial stipulations. And so even if it's not a trial
22 date, necessarily, deadlines from the Court do help push
23 the cases and discrete aspects of a case towards
24 resolution. So...

25 THE HONORABLE JUDGE FLANAGAN: Is there any

1 particular deadline you're asking us to set? We would be
2 happy to, I would think.

3 MR. DOWLING: We have a scheduling order that
4 we're satisfied with, Your Honor. But I did just want to
5 echo that sentiment. I know we've all looked at the
6 Hellerstein model, and I think that a critical component of
7 that model was holding the lawyers' feet to the fire with a
8 deadline at the end of it. Because, otherwise, you go
9 sideways. You don't -- you don't get to the end. And I
10 think we all crave finality. I think my friends on the
11 other side do as well. Certainly the Marines do. So...

12 THE HONORABLE JUDGE FLANAGAN: Is there anything
13 from your side of the room that you would like us to know
14 about now that might be helpful in our planning?

15 MR. BAIN: Your Honor, I would echo what
16 Mr. Dowling said. I think that the way the Court has set
17 up the case management structure and the deadlines that are
18 coming in the future have been helpful to focus the
19 parties' attention on trying to make progress. As we
20 approach each status conference, we tend to resolve our
21 discovery disputes right before the conference. So that's
22 helpful.

23 I will say that we are fully dedicated to the
24 global resolution process with the settlement masters.
25 From our side, our mantra is essentially to be fair to the

1 claimants, be faithful to the statute, and be accountable
2 to the taxpayers. And that's what we're trying to do. It
3 takes some time. We want to make sure that the settlement
4 has integrity, that it compensates those people who are
5 deservant of compensation under the statute but that it
6 doesn't do any shortcuts and not do what the taxpayers
7 would expect us to do.

8 THE HONORABLE JUDGE FLANAGAN: Thank you.

9 THE HONORABLE CHIEF JUDGE MYERS: All right. With
10 that in mind, we will be adjourned for the day. Thank you.

11 (The proceedings concluded at 2:12 p.m.)

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1 UNITED STATES DISTRICT COURT
2 EASTERN DISTRICT OF NORTH CAROLINA
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5 CERTIFICATE OF OFFICIAL REPORTER
6

7 I, Jennifer C. Carroll, RMR, CRR, CRC,
8 Federal Official Court Reporter, in and for the United
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19 Dated this 26th day of March, 2025.
20

21 

22 /s/ Jennifer C. Carroll
23 Jennifer C. Carroll, RMR, CRR, CRC
24 U.S. Official Court Reporter
25