

POLLUTION CONTROL HEARINGS BOARD
STATE OF WASHINGTON

WASHINGTON STATE DAIRY FEDERATION,)
the WASHINGTON FARM BUREAU, PUGET)
SOUNDKEEPER ALLIANCE, COMMUNITY)
ASSOCIATION FOR RESTORATION OF THE)
ENVIRONMENT (CARE), FRIENDS OF) PCHB No. 17-016(c)
TOPPENISH CREEK, SIERRA CLUB,)
WATERKEEPER ALLIANCE, CENTER FOR)
FOOD SAFETY, and RESOURCES FOR)
SUSTAINABLE COMMUNITIES,)
)
Appellants,)
)
vs.)
)
STATE OF WASHINGTON, DEPARTMENT OF)
ECOLOGY,)
)
Respondent.)

HEARING
VOLUME VIII
June 7, 2018
Olympia, Washington
Pages 1513 through 1610

Taken Before:

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1 BE IT REMEMBERED that on Thursday,
2 June 7, 2018, at 1111 Israel Road SW, Olympia,
3 Washington, at 9:00 a.m., before ANDREA L. CLEVINGER,
4 CCR, RPR, the following proceedings were had, to wit:

5

6 <<<<<< >>>>>>

7

8 JUDGE FRANCKS: Good morning. Have a
9 seat. Let's go on the record. We are here, Day 8 of
10 PCHB 17-016C, and I've got a couple of preliminary
11 matters.

12 I've been asked to reconsider my decision about
13 allowing videography of the closing arguments, and I've
14 considered the argument, and my decision remains the
15 same.

16 So what I have done is, I've allowed the one video
17 camera, and I've also allowed two still photographers to
18 take pictures during the argument in a nondisruptive and
19 low-key way.

20 As I read our rules, my jurisdiction doesn't extend
21 to controlling the dissemination of the video and the
22 photos, and I'm just not going to get involved in that at
23 all because I don't think I have -- I don't think I have
24 the jurisdiction to that.

25 So that's something for someone else to decide.

1 Okay. So that is that.

2 MS. HOWARD: Your Honor, if I may, are
3 you going to be issuing a written order that describes
4 the parameters under which the video can be taken and are
5 you going to address at all the issues that you asked us
6 about yesterday as far as sharing the video and
7 confirming how the video can be used?

8 JUDGE FRANCKS: I'm not because I've
9 determined that that's outside of my jurisdiction.

10 The conditions that I've imposed are that the camera
11 stays where it is. It focuses on the attorneys during
12 closing arguments. It can pan the board once.

13 So those are the conditions that I've imposed.

14 MS. HOWARD: Okay.

15 JUDGE FRANCKS: Turning to
16 Mr. Tebbutt's renewed motion on the question of AKART for
17 existing lagoons, the board has considered that and
18 denies the motion, consistent with its prior ruling.

19 So with that, are we ready to proceed with closing
20 arguments?

21 MR. TEBBUTT: We are.

22 JUDGE FRANCKS: Okay.

23 MR. TEBBUTT: Good morning, board
24 members. On behalf of the tens of thousands of people
25 that I represent, environmental appellants in this case,

1 this board has a chance to right the wrongs that have
2 been created by three Ecology directors, Jay Manning, Ted
3 Sturdevant, and now Maia Bellon, and the prior iteration
4 of this board that decided the 2006 permit appeal.

5 Ecology scientists have recognized the problems
6 since at least 2004, but they're politically appointed
7 bosses have overridden them.

8 All failed to protect the people of Washington,
9 despite overwhelming evidence of continuing threats to
10 the health and welfare of the people of Washington.

11 Ecology has fiddled while Washington burns with
12 manure contamination. As I said in my opening, common
13 sense, logic, science, and the proper application of law
14 are all that is needed.

15 Justice demands a decision that compels Ecology to
16 stop the known discharges of contaminants that continue
17 to devastate the Lower Yakima Valley and Whatcom County
18 aquifers, those that are depicted right here on I-10,
19 Figure 5, including the closed shellfish beds in Portage
20 Bay and the larger Salish Sea that I confirmed this
21 morning, still 895 acres of closed shellfish beds due to
22 bacteria contamination, the predominant source of which
23 is the dairies.

24 And these shellfish bed closures prevent the first
25 nations from practicing their millenniums long practices.

1 These areas, not coincidentally, have the highest
2 concentration of dairy CAFOs in the state.

3 As I-10, Figure 5, Page 6, shows -- the industry's
4 own picture -- again, the highest concentrations of
5 dairies are up in that left corner Whatcom County.

6 You can't see them all, but if you were to expand on
7 those, you would see that there's a huge number of CAFOs
8 in that cluster in the upper left-hand corner, and all
9 those big dots to the right are the big CAFOs over in the
10 Yakima Valley area.

11 And those are the areas that we know about because
12 they've been extensively documented and recognized by
13 Ecology EPA and further supported by the most extensive
14 set of data of CAFO contamination ever compiled in the
15 United States.

16 And that's the data on the cluster dairies, Cow
17 Palace, Bosma, and DeRuyter.

18 Some 40 square miles of groundwater around the
19 cluster dairies have been contaminated by dairy manure.
20 That documentation has not been rebutted whatsoever in
21 this case.

22 This is common sense. The largest sources of manure
23 produce the worst pollution. Common sense, logic, and
24 basic principles of science that we learned in first
25 grade, Newton's law of gravity dictate that water runs

1 downhill and down into groundwater.

2 Ecology's permit fails to address lagoons known to
3 leak allows application -- overapplication of manure to
4 fields and ignores compost areas in animal pens that all
5 are known sources of contamination to groundwater.

6 Environmental appellants' trial brief lays out the
7 law, but here's a summary of the points by issue: Issue
8 No. 2, whether the permits violate the Federal Clean
9 Water Act, Washington water pollution control laws,
10 including but not limited to RCW 90.48 and 90.64, and
11 implementing regulations by failing to require adequate
12 surface water monitoring by permittees.

13 Let's start with the tile drains. John Jennings
14 admitted the tile drains are point sources and that the
15 permit fails to monitor them. These are demonstrated by
16 Exhibits A-50, which was a picture of a tile drain and a
17 representative one and then actively discharging tile
18 drain, A-29, whose data about what was contained in that
19 tile drain was not admitted in this case.

20 We also have hydrologically connected groundwater to
21 surface water. All of the -- these hydrological
22 connections call for surface water monitoring, and I'll
23 get to that more in a minute.

24 We have emergency applications. Those are a
25 problem. They're excessive. They happen when fields are

1 saturated. You heard somebody try to say that we want
2 them to apply to dry fields, you know, in emergency
3 situations.

4 There's no such thing as a dry field in those
5 situations. It's because of the rain that we have those
6 problems.

7 So saturated fields will then flow to surface waters
8 and percolate to groundwater. And A-33 and A-43 are
9 examples of that.

10 We also have RFA 47 where they admit that
11 phosphorous loadings are not covered by the permit, so
12 excessive phosphorous and nitrogen applications will
13 cause surface water contamination.

14 The law: Ecology's permitting regulations require
15 the imposition of reasonable monitoring requirements
16 whenever a general permit authorizes the discharge of
17 pollutants to waters of the State, and that's
18 WAC 173-226-090, parentheses, 1.

19 As Ecology has stated, monitoring is truly the
20 cornerstone of the NPDES program. It is the primary
21 means of ensuring that the permit limitations are met.
22 It is also the basis for enforcement actions against
23 permittees who are in violation of their permit limits.
24 This comes directly from Ecology's permit writer's
25 manual.

1 Without surface water monitoring, Ecology will not
2 be able to enforce the permits effluent limitation, which
3 do not cause or contribute -- those are very important
4 words, cause or contribute -- to water quality
5 violations.

6 Ecology readily admits tile drains are point source
7 discharges, but fails to control or monitor them in any
8 way in the permits. The same is true for emergency
9 winter field applications and excessive manure
10 applications.

11 Point 3 -- Issue 3, rather: whether the permits
12 fail to control discharges to groundwater in violation of
13 the Federal Clean Water Act and Washington water
14 pollution control laws including, but not limited to,
15 RCW 90.48 and 90.64 in implementing regulations.

16 Lagoons are known to leak and discharge to
17 groundwater. Board doesn't have to rely upon
18 environmental appellant's words, but can rely on those of
19 Ecology itself.

20 Melanie Redding's testimony, R-4, Page 26 through
21 28. The research collected by Melanie Redding shows that
22 virtually all lagoons leak and discharge to groundwater.

23 R-4, Page 36, and I quote, Numerous studies have
24 documented leakage from manure lagoons, and some have
25 documented impacts to groundwater from nitrate ammonium,

1 veterinary pharmaceuticals, chloride, TDS, and bacteria.

2 The EPA report did that in the Yakima Valley.

3 Mr. Erickson's reports that he talked about extensively
4 that the dairies are doing on the cluster dairies
5 supports that in spades.

6 A-11, Page 5, the preliminary draft permit -- and,
7 again, this is Ms. Redding's words -- "A lagoon without a
8 double geomembrane liner with leak detection is
9 discharging to groundwater." Ms. Redding agreed with
10 that.

11 Throughout the documents admitted, there are
12 statements made even by industry witnesses that testified
13 here that you can't tell how groundwater quality is
14 impacted without groundwater monitoring. Simple
15 principles. Even Dr. Harrison admitted that.

16 This is a general permit. And John Jennings
17 testified that it covers, quote, similar activities.

18 That is why all of the Cow Palace, Bosma,
19 DeRuyter -- A-24 not admitted and many other documents
20 not admitted -- why all that data, all that discharge
21 data and noncompliance information from other facilities
22 is critically relevant to this case.

23 It's quality assured data ignored by Ecology in
24 writing the permit.

25 Ecology admits that the permit authorizes discharges

1 to groundwater, and John Jennings admitted that there is,
2 quote, some seepage from manure lagoons. This admission
3 alone triggers the need for groundwater monitoring.

4 And as Mr. Moore testified yesterday, and I quote,
5 Earthen-lined lagoons do leak or seep, and in the vast
6 majority of cases, that seepage will end up getting to
7 groundwater.

8 End of case. That should be enough. Issue over.

9 But if that's not enough, let's take a look at R-4,
10 Page 125, the second to last paragraph, quote, There is
11 no requirement to monitor groundwater in the expired
12 general permit, even when there are indications of
13 groundwater impacts. Therefore, determining a discharge
14 to groundwater, which is a water of the State, has been
15 problematic.

16 If a CAFO is not managing its manure properly, if
17 manure is overapplied, if manure is applied at the wrong
18 time, or if manure is stored in the lagoon not
19 constructed to a recognized standard, then groundwater
20 quality is likely impacted.

21 Up to this point, CAFOs generally have not had to
22 demonstrate compliance with groundwater quality
23 standards. That's Ecology in 2006.

24 And they still don't. They still do nothing. And
25 this is the Redding testimony. Even the Lindsey

1 testimony and the Erickson testimony all support these
2 propositions.

3 Ecology admits that soil applications above certain
4 limits will result in discharges, Redding testimony,
5 Keeney testimony, Erickson testimony.

6 So from a scientific perspective -- and this was a
7 question to Ms. Redding on 5/23, and I quote, So from a
8 scientific perspective, it's far more likely than not
9 that the water that is in the vadose zone is going to
10 reach groundwater at some point; right?

11 Answer: If it moves below the root zone, yes.

12 Cow Palace, Bosma, and DeRuyter composting numbers,
13 all of that information about the compost areas,
14 un rebutted. Compost areas are not accounted for at all
15 in the permit for their discharges to groundwater.

16 Animal pens are a contributing source, un rebutted.
17 Ms. Redding didn't take issue with Mr. Erickson's
18 findings. She just ignored them.

19 Piping infrastructure is another of the five areas
20 where contamination comes from. Piping infrastructure is
21 not required to be properly inspected. Mr. Erickson
22 discussed that.

23 There's no requirement to test the underground
24 piping that moves liquid slurry around CAFOs. You can't
25 simply look on the surface to test underground.

1 And the law. The permits authorize unmonitored
2 discharges of manure pollutants to groundwater of unknown
3 quality, meaning Ecology will never know whether such
4 discharges are violating WAC 173-200. And I point you to
5 our trial brief at Pages 3 through 5 for further legal
6 issues.

7 In practice, this means that the groundwater
8 effluent limitation is unenforceable. Ecology will never
9 know if any permittee is exceeding the groundwater
10 quality standards without having real information about
11 existing groundwater quality and about the effluent
12 concentrations being discharged from a permittee's
13 facility. These permits fail to meet the legal
14 requirements.

15 Issue 4, whether the permit soil monitoring
16 requirements and standards are invalid under the Federal
17 Clean Water Act and Washington water pollution control
18 laws, including, but not limited to, RCW 90.48 and 90.64
19 in implementing regulations.

20 Ecology admitted that application levels may
21 continue despite known impacts to groundwater. That's
22 R-4, Page 88, and the Redding testimony and the Erickson
23 testimony backs that up.

24 A-20 says, "Soil should be tested all the way
25 through the soil column." That's Ms. Redding's own

1 document, but it's not present in the permit.

2 Dr. Keeney said three-foot soil samples should be
3 universally required at a minimum to monitor the degree
4 to which excess nitrate is moving past crop root zones.

5 Once nitrate moves past a crop's root zone, as
6 Melanie Redding testified and agreed, it is destined to
7 reach groundwater.

8 R-17, land treatment on Page 3, "Soil nitrogen that
9 moves below the root zone will eventually leach to the
10 groundwater as nitrate."

11 Yet again. Even more important, when the
12 permittee's soil levels are in the high or very high
13 range, both levels are not protective of groundwater
14 quality.

15 Permittee should always be applying manure at times
16 and rates when uptake is maximized to minimize the
17 environmental harm.

18 Issue 7, whether the permits fail to require
19 permittees to install and implement all known available
20 and reasonable methods of preventing, controlling, and
21 treating pollutants prior to discharge as required under
22 the Washington water pollution control laws with respect
23 to, A, composting; B, land application manure; C, manure
24 storage; D, animal pens and corrals.

25 Everyone here agrees that AKART is a requirement

1 that cannot be ignored in the permits. AKART must be
2 applied to contaminants and waste prior to entry.

3 For instance, RCW 90.52.040, the Pollution
4 Disclosure Act, except as provided in RCW 90.54.0203B, in
5 the administration of the provisions of this chapter,
6 90.48 RCW, the director of the Department of Ecology
7 shall, regardless of the quality of water of the State to
8 which wastes are discharged or proposed for discharge and
9 regardless of the minimum water quality standards
10 established by the director for said waste, require
11 wastes to be provided with all known available and
12 reasonable methods of treatment prior to their discharge
13 or entry into waters of the State.

14 RCW 90.54.0203B -- that's the Water Pollution
15 Control Act of 1971 here in this state -- "Waters of the
16 State shall be of high quality. Regardless of the
17 quality of the waters of the State, all wastes and other
18 materials and substances proposed for entry into said
19 waters shall be provided with all known available and
20 reasonable methods of treatment prior to entry."

21 Lagoons are leaking by design and contaminating the
22 drinking water of tens of thousands of people as we speak
23 with no relief in sight. Ecology fiddles while Rome
24 burns.

25 WAC 173-200-0302C ii, the State groundwater quality

1 standard regulations, antidegradation policy, "All
2 contaminants proposed for entry into said groundwaters
3 shall be provided with AKART prior to entry."

4 Exhibit R-5, Page 27, Section 4.2.1.5, is also
5 supportive.

6 The law under which Ecology operates requires the
7 department to apply AKART to all wastes prior to entry.
8 Here we have undisputed testimony that the permits, A, do
9 not apply AKART to perhaps the greatest source of
10 groundwater contamination, the hundreds if not thousands
11 of manure lagoons that discharge waste to the groundwater
12 and are doing so, as we speak.

13 No prevention. No treatment. No control. No
14 AKART. Melanie Redding admitted there's no AKART for
15 existing lagoons, and Ecology did not try to change her
16 testimony.

17 The permits are unlawful. This is not a close
18 question. Lagoon assessment that is in the permits is
19 like assessing a broken glass to determine that it's
20 broken when you already know that it's broken.

21 Ecology permits allow discharges for at least
22 another permit cycle when lagoons built to NRCS standards
23 are known dischargers impacting groundwater quality in
24 violation of the law.

25 R-10, Tech Note 23, all the NRCS guidance are --

1 guidance, remember, not regulations or rules -- are
2 outdated, bad science, and, therefore, they are
3 irrelevant in this proceeding.

4 The NRCS guidance done by an agency charged with
5 helping agriculture, not protecting the environment, as
6 Board Member Marchioro pointed out, have been determined
7 by a federal court after two years of litigation and
8 extensive discovery in the Cow Palace case to be leaking
9 more than 3 million gallons of polluted water per year.

10 That constitutes contribution to groundwater
11 contamination above safe drinking water standards. And
12 that was assuming that the lagoons are operating at a one
13 time ten to the minus seven permeability, which, in a
14 perfect world, is the best that they can achieve. When
15 in reality, they're not even close to attaining those
16 standards as Mr. Erickson testified unrebutted.

17 According to Ecology, AKART for new or expanded
18 lagoons and other liquid storage structures requires a
19 liner with a permeability of one times ten to the minus
20 six centimeters per second and two feet of vertical
21 separation between the bottom of the lagoon and the water
22 table.

23 Both have been proven to cause or contribute to
24 water quality standard violations. The -- even that two
25 feet of separation only deals with pathogens -- and even

1 Ecology admits -- ineffectively. But it doesn't deal
2 with nitrate at all.

3 Mounding will cause virtually every lagoon with two
4 feet of built separation to violate that standard under
5 normal operating conditions.

6 As Mr. Moore said, the reasonableness of AKART is
7 only as applied to the permittee. Nowhere in the law
8 does it say that. Nowhere.

9 Synthetic liner technology has been around and used
10 by all other industries for decades. California,
11 Washington, Wisconsin, and other states have dairies that
12 use synthetic liners.

13 This information was provided to Ecology by us, the
14 environmental appellants, in the most extensive set of
15 comments submitted with actual scientific backup, not
16 just simple rhetoric, and was ignored by Ecology.

17 Beyond lagoons, other areas where AKART is not
18 present or insufficient, B, it does not limit
19 applications properly because it allows too much
20 application of both nitrate and phosphorous.

21 For instance, it allows winter applications in
22 emergency situations without regard to surface and
23 groundwater impacts and doesn't even deal with the
24 federal requirements for storage capacity for those
25 emergency situations that Mr. Moore discussed yesterday.

1 Facilities have to be designed to handle that, and
2 if they're not, they're in violation of the law. No
3 AKART for composting areas. Just a general provision
4 about keeping stormwater away.

5 The mountain of compost at Cow Palace as compared to
6 a full-size pickup truck and the windrows of compost that
7 went off into the horizon with the numbers of ammonia and
8 nitrate reaching down 18 feet and that's -- because
9 that's as far as we could go under that compost pile
10 under court order.

11 AKART for composting was not even evaluated by
12 Ecology, and the board should direct the permits to be
13 rewritten to account for compost discharges.

14 D, no AKART for pens. Mr. Erickson agreed that the
15 black organic seal was present in the pens, but through
16 his subsurface investigations -- and, again, this is the
17 only evidence in the record about what occurs under
18 pens -- discovered there to be significant pollution
19 contributions from animal pens.

20 As he testified, part of this is because manure and
21 urine accumulates in pens faster than it can be removed.

22 And, E, no AKART for application fields. The levels
23 are too high. Melanie Redding agreed that high levels
24 lead to groundwater discharges as corroborated by
25 Dr. Keeney.

1 And the table that we discussed shows that even at
2 small levels of excessive nitrogen, that nitrate will
3 reach groundwater at levels that exceed the maximum
4 contaminant level and contaminate people.

5 Issue 8, whether the permits fail to establish
6 technology-based effluent limitations and standards as
7 required under the Federal Clean Water Act with respect
8 to A, composting; B, land application of manure; C,
9 manure storage; D, animal pens and corrals.

10 We just heard a whole bunch about that, but just
11 like the AKART analysis, there are no technology-based
12 effluent limitations for existing manure storage lagoons,
13 compost areas, and pens.

14 Issue 9, whether Ecology illegally relied upon an
15 adaptive management approach that authorizes residual
16 nitrate and phosphorous levels in the soil that are known
17 to result in discharges to waters of the state and fails
18 to sanction permittees for violating the permit terms of
19 the permit by applying manure in excess of agronomic
20 rates for nitrogen and phosphorous. These are all the
21 same as Issue 4 as we laid out previously.

22 Issue 10, whether the permits authorize discharges
23 of pollutants to surface and groundwaters in the state of
24 Washington in violation of the Federal Clean Water Act,
25 Washington water pollution control laws including, but

1 not limited to, RCW 90.48 and RCW 90.64 in the applicable
2 implementing regulations.

3 Recent case from the 9th Circuit, which is cited in
4 our briefs, Hawaii Wildlife Fund versus County of Maui,
5 found that there was liability under the Clean Water Act
6 because it encompasses discharges to surface water
7 through hydrologically connected groundwater.

8 That's what we have here. Discharges from point
9 sources to groundwater hydrologically connected to
10 surface water are unlawful under the Federal Clean Water
11 Act and under Washington laws.

12 And the Postema versus PCHB case from 2000 cited in
13 our briefs also supports that where the Washington
14 legislature has recognized the scientific fact of, quote,
15 hydraulic continuity between ground and surface waters,
16 end quote, and the groundwater code and the Water
17 Resources Act of 1971.

18 And, again, I quote, Existing and beneficial uses
19 shall be maintained and protected, and degradation of
20 groundwater quality that would interfere with or become
21 injurious to beneficial uses shall not be allowed.

22 And that's WAC 173-200-030, and it doesn't say we
23 have an exception for CAFOs.

24 The enforcement limit is a value assigned to any
25 contaminant for the purposes of regulating that

1 contaminant to protect existing groundwater quality and
2 to protect groundwater pollution. And that's
3 WAC 173-200-050.

4 And also WAC 173-200-0503 A, establishing the
5 criteria that Ecology must consider when setting
6 enforcement limits.

7 The starting point for any enforcement limit for a
8 particular contaminant, such as nitrate, is the water
9 quality standard criteria found in Appendix A of
10 WAC 173-200-040.

11 I would also point you to R-5, and that's PDF
12 Page 40. The actual page is 28. However, when the
13 background groundwater quality exceeds criterion, the
14 enforcement limit at the point of compliance shall not
15 exceed the groundwater quality criteria. The groundwater
16 quality for that criterion -- pardon me -- that's
17 WAC 173-200-0503B2.

18 And importantly and, again, I quote from law,
19 Enforcement limits based on elevated background
20 groundwater quality shall in no way be construed to allow
21 continued pollution of the receiving groundwater.

22 Enforcement limits are intended to be at the point
23 of compliance. Compliance with the enforcement limits
24 shall be maintained throughout the site from the
25 uppermost level of the saturated zone extending

1 vertically to the lowest depth that could potentially
2 be affected by an activity. And that's
3 WAC 173-200-060(1)(b).

4 Ecology cannot claim that the permits are in
5 compliance with the antidegradation requirement without
6 knowing, A, what groundwater quality is under a facility,
7 and, B, what the effluent concentrations of the
8 discharges are from the facility.

9 Unrebutted admissions that groundwater monitoring is
10 the only way to know are pervasive throughout this
11 hearing.

12 Issue 16, whether the permits violate the Federal
13 Clean Water Act, Washington water pollution control laws
14 including, but not limited to, RCW 90.48 and RCW 90.64
15 and applicable implementing regulations for nutrient
16 management plans, the Manure Pollution Prevention Plan in
17 the permit.

18 Again, we start with a proposition everyone agrees
19 on. The code of regulations sets the minimum
20 requirements that permits must comply with the Clean
21 Water Act.

22 The CFR has three main requirements relevant to
23 these permits. That's 40 CFR 122.23(h)(1) and
24 CFR 122.21(i)(1)(X). Both require a nutrient management
25 plan to be submitted with a notice of intent for coverage

1 under a general Clean Water Act CAFO permit.

2 40 CFR 122.23(h)(1) makes clear that the MMP must be
3 publicly available for comment and approved by the agency
4 prior to permit issuance.

5 If the director makes a preliminary determination --
6 this is, again, a quote -- that the notice of intent
7 meets the requirements of 122.21(i)(1) -- IL -- (i)(1),
8 rather, and 122.42(e), the director must notify the
9 public of the director's proposal to grant coverage under
10 the permit to the CAFO and make available for public
11 review and comment the notice of intent submitted by the
12 CAFO including the CAFO's nutrient management plan and
13 the draft terms of the nutrient management plan to be
14 incorporated into the permit.

15 Bill Moore admitted on the stand yesterday that
16 doesn't happen here. 40 CFR 122.22(e)(1) and (e)(5)
17 spell out the federal requirements for an MMP.

18 And I'm not going to go into two pages of citations
19 to the CFR because it's so obvious, but, just to
20 summarize, that's 42 E16, identify appropriate
21 site-specific conservation practices to be implemented;
22 E18, establish protocols to land applied manure, litter,
23 or process wastewater in accordance with site-specific
24 nutrient management practices.

25 And E5 has many of the same things. Then says,

1 "must include the fields available for land application,
2 field specific rates of application properly developed"
3 and a whole lot more.

4 And finally 122.42(e)(6) also requires these MMPs,
5 which Ecology is calling MPPPs, to be made publicly
6 available if substantial changes are made such that the
7 public can comment again.

8 This means that they had to be publicly available to
9 start with, which John Jennings and Bill Moore both
10 admitted they are not.

11 So applied here, the Ecology testimony and discovery
12 makes clear that MPPPs contain the site-specific
13 information contemplated by 40 CFR 122.42(e). Ecology
14 admits that the MPPPs contain field-specific information,
15 including how the permittee will actually in practice
16 satisfy the requirements of the permit.

17 Exhibit R-1 -- the permits make this clear --
18 Section S4Q requires the MPPP must include a description
19 of how the permittee is meeting each of the performance
20 objectives and specific conditions and special
21 conditions, S4A through S4Q on-site.

22 The description provided by the permittee must
23 include a narrative and, if applicable, drawings or
24 diagrams. The narrative must clearly describe the basis
25 the pollution prevention decisions the permittee has

1 made.

2 R-1, the permits and Ecology testimony show that
3 updates do not go through public comment.

4 Thus the MPPP runs afoul of the CFR, as we
5 discussed, because CFRs dictate that info is reviewed by
6 the department and the public prior to issuance. That
7 doesn't happen here.

8 So what does this all mean? If the industry is
9 losing money, then do you just allow them to keep
10 polluting as they've been doing for decades?

11 No. Law doesn't allow that. The law doesn't have
12 an exception for CAFOs. It doesn't say thou may
13 discharge to groundwater and contaminate the waters of
14 the state. It says "thou shalt not."

15 Industry and Ecology are focused on cost to the
16 dairy farmers, but what about the cost to the public for
17 having to deal with the cleanup and getting alternative
18 water? A lot of that evidence wasn't allowed in here.

19 These costs were never assessed by Ecology or
20 industry, yet Ecology admits and Mr. Erickson testified
21 unrebuted the costs of remediation are orders of
22 magnitude higher than requiring measures for prevention.

23 Where is the reasonableness there? Industry
24 externalizes its costs at the back end of the production
25 process on the people of this great state.

1 Public employees sit here for two weeks on the
2 taxpayer dime, defending the dairy industry while
3 ignoring the impacts to people in the environment.

4 Where are the public employees supporting the
5 public?

6 Forty square miles of known contamination in the
7 Yakima Valley. That's depicted in Mr. Erickson's map and
8 as he testified to. And tens or hundreds of other square
9 miles in the Yakima Valley are contaminated, but the full
10 extent of the problem has not been close to fully
11 documented.

12 The people, CARE in this case, has done the lion's
13 share of the work, while Ecology takes years beyond the
14 expiration of the prior ineffective permit that only
15 about a dozen of more than 400 CAFOs in Washington were
16 covered by. It fiddles while Rome burns.

17 While environmental appellants have not been allowed
18 to put on their full case, we have put on Ecology's own
19 words, and those are the most experienced person with
20 CAFO contamination in the state of Washington and I would
21 argue in the United States, that of Mr. Erickson.

22 Don't trust our words. Use those of Ecology's own
23 Melanie Redding, Exhibit R-4, Page 95. Research in both
24 the Lower Yakima Valley and the Sumas-Blaine Aquifer
25 identify manure as a predominant source of nitrogen

1 loading in these areas.

2 I'll propose to you that, if you look at all the
3 studies carefully, they say that the predominant source
4 is from manure lagoons.

5 CARE has been the leader in trying to protect the
6 people of Washington for more than two decades. CARE has
7 provided 100 homes with clean water. Thousands more
8 homes need help. Where is Ecology? They haven't
9 provided a single home with clean water.

10 Time and time again, CARE has enforced our nation's
11 laws and shown that the so-called industry leaders are,
12 in fact, community polluters.

13 Two federal judges have made these findings based on
14 extensive uncontroverted facts. This is the Faria dairy
15 in Grant County and the cluster dairies that you've heard
16 a whole lot about in the Yakima County.

17 Ecology has utterly failed the people of Washington.
18 Maia Bellon hid behind the motion to quash her testimony
19 granted by this board. She had a big enough stick to
20 stop this injustice and she dropped it. She didn't have
21 the guts to testify.

22 As I said in my opening remarks, if this board
23 allowed my clients to present their case and we did not
24 convince you that this permit is not protective of human
25 health of the environment, then shame on us.

1 Despite numerous rulings against us, we have shown
2 Ecology's own words, the essence of which has not been
3 rebutted, and we accomplished our job.

4 Shame on Ecology for not protecting the people of
5 this state as is their trust obligation and legal
6 obligation to do.

7 This board now has the chance to rectify decades of
8 gross injustice and remand this permit to Ecology to get
9 on the right track, rather than continuing to allow
10 Ecology to, quote, kick the can down the road further as
11 Ecology's Tom Tebb stated in 2009 after the last permit.

12 Flint, Michigan; Love Canal in New York; Selma,
13 Alabama, to name just a few, are examples of travesties
14 of social injustice. Don't let this situation continue
15 to heap social injustice on the poor people of the Yakima
16 Valley, on the people of Whatcom County, on the first
17 nations who suffer from this damage.

18 It's your job to stop it now, and you have the
19 opportunity to do it, and we ask you to do it forcefully.

20 Thank you.

21 And I saved three minutes for rebuttal.

22 JUDGE FRANCKS: Okay. Thank you.

23 Ms. Howard.

24 MS. HOWARD: Good morning. Elizabeth
25 Howard, again, on behalf of the Washington State Dairy

1 Federation and the Washington Farm Bureau. And myself
2 and my co-counsel, Ms. Nicholson, thank you for your time
3 over the past seven days.

4 This is a complex case with a lot of testimony, and
5 I'm going to do -- take some time this morning to try to
6 summarize the issues that we presented to the board.

7 Before I do that, I want to talk a little bit about
8 our clients and what you've heard about dairy farmers
9 over the past seven days.

10 First, you have heard about dairy farmers being
11 proactive. You heard about the Dairy Nutrient Management
12 Act and how the dairy industry went to the State
13 legislature and looked for an opportunity to work with
14 the State legislature and the State agencies to regulate
15 the industry, to address some of the concerns that have
16 been raised during this proceeding.

17 You've also heard about dairy farmers being
18 proactive. We talked about some of the new technologies
19 they're working on even now and that are being
20 implemented within this state, specifically some of the
21 technologies we heard about related specifically to
22 lagoons and being able to determine whether they are
23 technically sound or not. And even today those
24 technologies are being implemented here in Washington.

25 You also heard testimony about a new methodology

1 that's being implemented called the ARM, Applied Resource
2 Management. It's a methodology that we have seen is very
3 protective of both groundwater and surface water.

4 And it's a methodology that the dairy industry is
5 coming to this board and talking about because it
6 actually thinks it will be more protective than the terms
7 that are currently in the permit.

8 So we've heard that dairies are proactive. We've
9 also heard that dairies are highly regulated. There are
10 federal and state water quality laws that apply to
11 dairies and CAFOs.

12 We've talked about, again, the Dairy Nutrient
13 Management Act, which is a comprehensive statute that
14 applies to dairies, applies to their activities, and
15 addresses their compliance with water quality laws.

16 We have heard about, again, the state and water --
17 state and federal water quality standards. Those are
18 enforced.

19 We heard from Puget Soundkeeper and about community
20 activists that are regularly scrutinizing dairies,
21 reporting, and we saw in evidence that both the
22 Department of Ecology and Department of Agriculture are
23 responding to and reviewing those reports.

24 We also heard testimony that many of those reports
25 didn't demonstrate that there was a violation, but we did

1 hear testimony that there's a great deal of scrutiny and
2 also heard about the responses to those.

3 So, again, it's a very highly regulated industry.
4 We also heard that this industry has been under
5 decades-long litigation. That was testified to by Puget
6 Soundkeepers and their witnesses, and that there has been
7 extensive litigation against this industry for a long
8 period of time and that they have been dealing with that
9 for a long period of time.

10 One of the other things we heard about dairies is
11 that they are recyclers. They're recyclers of nutrients.
12 We talked about how a dairy operates and that a dairy has
13 livestock.

14 Those livestock do produce manure. That manure is
15 separated into different types of products. Some of it
16 goes into the lagoon. It's pulled out of the lagoon. It
17 is applied to the fields where it is -- those nutrients
18 are recycled as the crops are grown. Those crops are
19 then fed to livestock. Some of the manure is also used
20 for other useful products, like bedding and compost.

21 So in a state where we value recycling, dairy
22 farmers are an example of living, breathing recycling
23 cycle. They recycle nutrients. They use and reuse them.

24 We also heard that dairy farmers are under immense
25 economic pressures, and that is a fact. That is

1 something that they don't have a lot of control over.

2 Many dairy farmers are operating at no profit margin
3 or, in today's prices for milk, a negative profit margin.
4 That has real consequences for dairy farmers.

5 One of the things we heard about is that they are
6 unable to finance large projects as a result. They just
7 aren't able to go to the banks to find financing for
8 projects like lagoon retrofitting.

9 And there are limited federal and other funds
10 available. Even though there are some grants available,
11 those grants are capped by year, and they are capped by
12 dairy farmer.

13 And all of these things taken together are part of
14 the reason why we see such a significant reduction in the
15 number of dairies in this state and also desire to ensure
16 that that industry does not -- does not leave this state.

17 So for those dairies that are left, as we spoke
18 about in our opening comments, this permit or these
19 permits are seen as an important tool.

20 And the dairy industry came to this state to work
21 alongside them to try to develop a permit that's workable
22 on the ground but that also provides the protections to
23 both surface and groundwater.

24 And while there are many aspects of the permit that
25 accomplish that, there are a few that do not, and those

1 are the issues that we have raised in our appeal and that
2 we've put testimony on about before this board.

3 Before I talk about those issues, I do want to just
4 take a brief moment to talk again about the legal
5 standards.

6 We did brief this extensively in our opening
7 brief -- or excuse me -- in our trial brief, but let me
8 just touch on a few highlights.

9 So, first, this board's review obviously is de novo,
10 and the agency, while it does receive some deference
11 under the review, there are a few areas where they may
12 not.

13 One is if their interpretation of the statute is in
14 conflict with the plain wording of the statute and the
15 regulation.

16 And another -- the board can defer to Ecology's
17 technical judgments but only when the board finds that
18 the agency has specialized knowledge and expertise that
19 supports those technical judgments.

20 And here, as I'll talk about further, that's missing
21 in a few key places. We've talked a lot about AKART over
22 the last seven days.

23 Ecology must require the use of all known available
24 and reasonable methods by industries and others to
25 prevent and control the pollution of waters of the state

1 of Washington.

2 As we've talked about each of those known available
3 and reasonable components have some -- sort of subfactors
4 within them, and the reasonableness, in particular, has
5 an economic component to it.

6 That's critical here. For understanding whether or
7 not the methods that were chosen by Ecology as terms in
8 the permit actually meet the reasonableness standard, we
9 have to look at the economics of those methods as well.

10 And state law also requires that if there is --
11 while we can -- while we are looking at the protection of
12 water, we also need to be looking at protecting
13 industries, and that has to be a component in how Ecology
14 looks at and evaluates the terms in its permit.

15 So I spoke just for a moment about the
16 reasonableness element of AKART. We pointed out some
17 case law in our trial brief that speaks to this in a
18 little bit more detail.

19 The reasonableness element requires that any Ecology
20 imposed standard be both economically and technologically
21 feasible, and Ecology cannot require a system or a method
22 that would impose an unreasonable financial burden on the
23 applicant, either because of excessive initial outlay of
24 costs or because of annual operating costs.

25 And that's the Weyerhaeuser case that we cited to in

1 our trial brief.

2 There's also as a component of the known subfactor
3 of AKART. Ecology cannot experiment in permits. They
4 are required to use methodologies and conditions that
5 have been tested and found to control pollution
6 effectively and efficiently.

7 It cannot require as yet untried control
8 technologies under AKART. This is also the Weyerhaeuser
9 case.

10 And in all things that they do under AKART, their
11 analysis has to be conditioned by a judgment of
12 reasonableness, as I spoke about before.

13 There's one other key legal standard that I want to
14 just point out before I dive in a little deeper into the
15 issues, and that is, by law, Ecology is required to give
16 notice and a meaningful opportunity for the public to
17 participate in its general permit decisions.

18 And here, as we've pointed out specifically with
19 regards to the lagoon standard, that did not occur.

20 That requirement also spans from the Clean Water Act
21 and the federal APA, Administrative Procedures Act, and
22 state Administrative Procedures Act as well.

23 So before I dive into the three issues, Issue 5, 6,
24 and 19 that are our three issues on appeal -- that remain
25 on appeal, I want to talk just a little bit about the

1 witnesses that were presented in this case.

2 First about Puget Soundkeepers' witnesses, and I
3 just want to focus on Mr. Erickson and Mr. Keeney.

4 Mr. Erickson, as we heard, is not licensed in
5 Washington, and while he has had some limited experience
6 in Washington, it is just that. It is limited.

7 As we demonstrated through both our
8 cross-examination of Mr. Erickson and our own witnesses,
9 the modeling that he used was used in a way that is not
10 normally used.

11 The data that he relied on wasn't sufficient to
12 demonstrate an actual connection between the
13 methodologies that are being applied at those dairies and
14 groundwater contamination.

15 We also explained, both in cross and direct, that --
16 that -- that the -- and actually, this was in cross --
17 that while there are claims that these lagoons and the
18 cluster dairy were NRCS-designed lagoons, they, in fact,
19 were not. Mr. Erickson could not testify to that.

20 So we cannot hold out the cluster dairies, if you
21 will, as an example of an NRCS-designed lagoon. As I'm
22 sure Ecology will address as well, we cannot hold out the
23 cluster dairies as being an example of the types of
24 methods that are required under the permit.

25 And so while we had a lot of testimony through

1 Mr. Erickson, what we didn't get is testimony and
2 evidence as it directly relates to the terms of this
3 permit and as it directly relates to whether or not those
4 permit terms are protective or not.

5 We also heard from Mr. Keeney -- Dr. Keeney, who is
6 from the Midwest, similarly has no experience in
7 Washington.

8 Let me turn now to the Ecology witnesses who are
9 public servants and I understand put an immense amount of
10 time into this permit.

11 But what we didn't hear is, they have this
12 specialized knowledge and expertise to inform the terms
13 of this permit in some key aspects, not all, but in some
14 key aspects.

15 We heard from Ms. Redding that she is not an
16 agronomist. We also heard she is not a microbiologist.
17 While she did a literature review, that literature review
18 was not solely focused on what occurs in the Pacific
19 Northwest.

20 It was a nationally based literature review, so it
21 wasn't really fine-tuned and very specific to what
22 happens in Washington.

23 And beyond that, we didn't hear that she had this
24 sort of on-the-ground specialized expertise that the
25 witnesses that I will speak about next do have.

1 And, again, Mr. Moore and Mr. Jennings, also
2 obviously long-term Ecology staff, but just didn't have
3 the technical expertise and specialized experience and
4 knowledge for the permit terms that are at issue here.

5 In contrast, we've presented testimony from
6 Dr. Lindsey, who is a hydrogeologist certified in
7 Washington with extensive experience in Washington.

8 He went into in-depth technological -- or
9 technical -- excuse me -- testimony regarding seepage
10 rates, regarding the vadose zone, what happens there, how
11 different factors affect seepage rate, what actually
12 impacts loading, and whether you do have contaminants of
13 groundwater or not.

14 He provided testimony about the fact that lagoons
15 actually, while they seep, because of the way that the
16 vadose zone works, you can actually have that seepage
17 retract back into the lagoon liner.

18 So extensive technical testimony from a doctor who
19 is a hydrogeologist certified to do work and has done
20 extensive work in Washington.

21 We also presented the deposition testimony of Bill
22 Reck, who is the national technical expert on manure
23 lagoon design.

24 He, above any other witness in this case, has that
25 expertise, and that's based upon 30 years of experience,

1 working with NRCS, and it's based upon extensive research
2 done by NRCS, literature, lagoon failures,
3 experimentation, and implementation of the manure lagoon
4 standards across the U.S. and in other nations.

5 So that testimony is really critical for
6 understanding what type of standard needs to be imposed
7 in order to be protective of groundwater.

8 Dr. Joseph Harrison, also 30 years of experience.
9 He's done extensive research, focusing on dairy nutrients
10 and management of manure.

11 He's been involved in research and studies that were
12 discussed in front of this board and presented as
13 evidence in front of this board, including the Karen
14 Harrison report, and then also he spoke about his
15 involvement in the soil nitrate Sullivan and Cogger
16 bulletin, which was heavily relied upon by Ecology in
17 this case.

18 He's also had experience working with producers and
19 the agency in implementing CAFO permit terms. So, again,
20 highly experienced, extensive research, in-depth
21 knowledge about the specific issues that are presented
22 with regards to the permit and the terms.

23 David Haggith, also decades of experience on the
24 ground, and I would submit to you that there was no other
25 witness that came before this board who had the type of

1 on-the-ground experience on dairies and working with
2 dairies as David Haggith.

3 Maybe Dr. Harrison would be equivalent, but clearly
4 good boots on the ground, practical experience, observing
5 dairies and how they work, and also an expert agronomist.

6 He's been working on field nutrient budgets, working
7 with dairies on implementing those in compliance with the
8 Dairy Nutrient Management Act, but also just working with
9 dairies to ensure that they are able to grow their crops
10 and also able to comply with state statutes as well.

11 And then finally, Dr. Shannon Neiberger, who is a
12 professor, an expert in agronomist economics and
13 specifically as it relates to dairies.

14 And not only does he have that expertise, but he
15 also worked for farm credit services, so he has insider
16 knowledge of how banks view dairies and the ability to
17 loan on dairies.

18 So when we're talking about specialized knowledge
19 and expertise, I would submit to the board that each of
20 the individuals that we presented as witnesses do,
21 without question, have the type of specialized knowledge
22 and expertise that is very relevant to the CAFO permit
23 terms, how they work on the ground, but also how they are
24 protective of ground and surface water.

25 And I do think that that stands in stark contrast to

1 the other witnesses that were presented to the board.

2 So our three issues are Issues 5, 6, and 9. Those
3 are the three remaining issues that were heard by the
4 board.

5 Issue No. 5 relates to soil sampling, and the permit
6 term is S41. It's the same in both of the permits.

7 We talked first about the spring soil sampling
8 requirement, and the concern there is that the spring
9 soil sampling is looking solely at mineralization.

10 And as you heard in testimony, mineralization is
11 already accounted for in the field nutrient budgets.

12 And, again, these field nutrient budgets are based upon
13 information about the field, information about the crops,
14 longstanding understanding of how crops grow, the types
15 of nutrients that they need, and, again, specific
16 information about each field as applied to that.

17 So these field nutrient budgets, which were
18 developed usually in the fall, already account for the
19 mineralization that's going to occur throughout the year.

20 So in other words, this is not new -- this is not
21 information that's not already accounted for in the field
22 budget. Ecology is asking nonetheless that spring
23 samples be collected.

24 We saw evidence and we presented the chart and some
25 information also from the Carey and Harrison report as

1 well as information from the soil samples by David
2 Haggith and his extensive experience for decades on this,
3 that spring soil samples are pretty predictable.

4 We know what we're going to get on a pretty
5 consistent basis, and, again, that's because we
6 understand that mineralization is occurring.

7 And on a consistent basis, we're seeing spring soil
8 samples in the 15 parts per million, maybe as high as
9 20 parts per million, sometimes less, but just right in
10 that sort of normalized window.

11 So we're not getting new information when we take
12 spring soil samples. We're getting the same information
13 over and over again and information that's already been
14 accounted for in the field nutrient budgets, so
15 information that's already being accounted for when we're
16 looking at land applications to ensure that they are
17 protective of ground and surface water.

18 All the spring soil samples are under this scenario
19 is an added expense. They're not giving us new
20 information.

21 And so, by definition, spring soil samples, at least
22 as construed under the current permit terms, do not meet
23 the AKART standard. They're not a reasonable term.

24 And we saw that there's maybe some confusion from
25 Ecology between what is a spring soil test and the PSNT.

1 If you'll recall, the Pre-Sidedress Nitrate Test,
2 which can be a useful tool, but it is taken later in the
3 year in June, and it is used specifically for corn, but
4 that is not the sample that's being required by this
5 permit. It is the spring soil sample that's being
6 required.

7 So for all the reasons that I just explained, the
8 spring soil samples don't meet the reasonableness
9 threshold. They're simply an extra expense that's not
10 either generating useful information to the permittee or
11 to Ecology.

12 The other issue we raised with regard to samples is
13 the fall soil sample. We talked a lot about the Sullivan
14 and Cogger bulletin from the universities, and let me
15 just read -- well, I'll paraphrase for you what that says
16 with regards to fall soil samples.

17 It says, "Sample zero to 12 inch depth for the post
18 harvest test." So the first foot. "This sampling depth
19 is a good predictor of nitrate in the rest of the soil
20 profile when in season irrigation is not excessive" --
21 that's an issue that's addressed in the permit -- "and
22 samples are taken prior to heavy rains in the fall."

23 We agree that it is important to have a fall soil
24 nitrate test. The concern that we've raised is with the
25 October 1st date, which is an arbitrary date.

1 The October 1st date is not tied directly to heavy
2 rains, and it certainly does not reflect a post harvest
3 test, and the reason for that is because there is great
4 variability in when heavy rains occur.

5 Again, if you look at Sullivan and Cogger, which was
6 Exhibit R-12, Table 1, and then also in the paragraph
7 below that, it's clear that you can have heavy rains in
8 September. You can have them in November. You can have
9 them in beginning of October, middle of October, the end
10 of October. So there's variability as to when heavy
11 rains occur.

12 The October 1st date is referenced in Sullivan and
13 Cogger, but it says use that whenever possible. And,
14 again, the concern is that, by using that specific date,
15 we're not actually accounting for when heavy rains are
16 going to occur.

17 They might occur prior to October 1st, but
18 oftentimes, as we demonstrated, they occur after
19 October 1st. And the concern is, if you still have a
20 crop in the field -- if you're trying to hit that
21 October 1st date, you still have a crop in the field,
22 you're not actually getting an accurate test because
23 you're not getting a test that reflects the end of
24 harvest, what has occurred throughout that time frame.
25 So you're not gathering the information that actually

1 reflects the nitrates that would be left post harvest.

2 We also talked about the challenge of trying to get
3 into, for example, a corn field, which is full of corn,
4 which is quite tall, and trying to make your way through
5 a field in order to take a test prior to October 1st when
6 you still have a crop in the field. Not only will you
7 get inaccurate or unhelpful information, but it's just
8 physically difficult to do.

9 And so the proposal that we made and continue to
10 make is not that we don't have fall soil nitrate tests,
11 but that we have a fall soil nitrate test that follows
12 this guidance, that follows the Sullivan and Cogger
13 guidance, that guidance that Ecology is relying upon and
14 that producers and universities have relied on for more
15 than a decade and tie the fall soil nitrate test to the
16 date when you do have heavy rain, not a set date in the
17 permit, but require that the tests be taken prior to
18 heavy rains.

19 This is not difficult to do, as we heard testimony.
20 You can watch the weather. You'll know when that occurs,
21 and most of the time, for producers, their crop will be
22 off by that heavy rainfall. They want it off because
23 after that heavy rainfall, it's difficult to remove the
24 crop.

25 For those farmers that miss that date, you heard

1 testimony from David Haggith that we don't disagree that
2 at that point, if you do have heavy rain, it does make
3 sense to go deeper than a foot.

4 But prior to that heavy rain, as Sullivan and Cogger
5 explains, that first foot sample is sufficient to give
6 the information about predicting nitrate that's in the
7 soil profile.

8 So, again, the concern here is with reasonableness
9 and with following a known method. So Sullivan and
10 Cogger is an established well-known method. It, in fact,
11 is the document that was relied upon by Ecology most
12 heavily in order to establish the fall soil nitrate test.

13 And we agree with Ecology that it is important to
14 have that fall soil nitrate test. We just need to have
15 it be based upon reality, what's going on in the field,
16 upon when heavy rains actually do hit.

17 And until we get to that point, we don't have a
18 permit term that's reasonable, nor do we have a permit
19 term that's actually accomplishing the goals that Ecology
20 is setting out to accomplish under the permit terms.

21 And I won't go into the details here, but I just
22 wanted to point out that we also did provide testimony
23 about the challenges of taking those deeper soil samples
24 when you are still in a drier period.

25 And we had testimony from John Jennings, confirming

1 that if you do take the sample in the first foot and that
2 gives you the information that you need, that is
3 sufficient to be protective, and we agree with that.

4 And that is indeed what Sullivan and Cogger say, so
5 requiring the deeper soil samples also does not meet the
6 AKART standard.

7 Then the last thing we referenced with regards to
8 this particular permit provision and soil samples related
9 to T-sum 200, and, as I said in my opening comments, this
10 is a place where we talked about ARM, the Applied
11 Resource Management, approach.

12 And I would submit to you that it's probably not
13 very usual for an industry to come to the board and ask
14 for a more protective standard, but, here, that is
15 exactly what we are asking for, particularly with regard
16 to Western Washington.

17 And one of the reasons for that is that we've seen
18 it borne out in data and testing by both Ecology and by
19 Whatcom County Public Works, that ARM works.

20 We are seeing improvements in both surface and
21 groundwater in Whatcom County and in regards to the
22 aquifer and surface water as a result of the application
23 of ARM.

24 The reason for that, as David Haggith testified to,
25 is that it's a much more thoughtful, if you will,

1 approach. It doesn't just look at temperature, which is
2 what T-sum 200 does. It also looks at slopes. It looks
3 at soil type. It looks at soil saturation. It does look
4 at weather. It looks at potential for rainfall. All of
5 those things are taken into account when we look at
6 whether or not to land apply under ARM.

7 T-sum 200 doesn't account for most of those factors.
8 The only thing it takes into account is weather.

9 So, again, as we testified to, ARM, A-R-M, is a much
10 better technology and is much more protective of surface
11 and groundwater, and particularly it's been shown to be
12 very effective in Western Washington.

13 And AKART requires, again, that Ecology does use all
14 known reasonable and available methods, and here again we
15 think this is a method that is more reasonable, given the
16 way that it's performing on the ground.

17 Next, Issue 6. Let me move on to Issue 6. So
18 this -- this issue focuses in particular on Table 3. And
19 you heard testimony from us again related to the concerns
20 with Table 3 relating to how the nitrate ranges and the
21 categorization of nitrates actually relates or does not
22 relate to what's going on on the ground with regards to
23 crops and how they're using nitrates.

24 So Table 3, as we heard from Ecology, is based
25 primarily on the Sullivan and Cogger. Again, this is

1 Exhibit R-12.

2 And Sullivan and Cogger actually breaks out nitrate
3 ranges and adaptive managements that should occur based
4 upon nitrate ranges based upon perennial crops and annual
5 crops.

6 So perennial crop, again, is a crop that's in the
7 ground year-round, and annual crop is just grown for a
8 particular season and then it's harvested.

9 And that's really critical because, as we heard in
10 testimony, annual crops like corn, which is a predominant
11 annual grown by the dairy industry, has different
12 nutrient needs. It has different times as to when it
13 requires nutrients.

14 And so, as a result, you can see different levels of
15 nutrients that will be uptaken by that crop than, say,
16 for example, a grass crop, which is growing at a
17 different rate throughout the year and will uptake
18 nitrogen differently as a result, and that's accounted
19 for in the field budgets.

20 But it's not accounted for in Table 3, and the
21 reason for that is because Ecology took the two different
22 tables in Sullivan and Cogger that are specific to annual
23 and perennial crops and mushed them together into
24 Table 3.

25 So it doesn't actually comport with how crops grow

1 and how they use nitrogen and how they are if land
2 applications are properly made do protect groundwater.

3 Table 3 also doesn't account for the benefits of
4 double cropping. So we heard that many dairy farmers
5 will plant corn during the summer and then they will
6 plant triticale or grain crop during the winter. That's
7 called a cover crop or a double crop.

8 And when they do that, that triticale or that grain
9 will also suck up nitrogen starting in the fall and going
10 throughout the winter. And, unfortunately, Table 3,
11 which isn't up today, but Table 3 doesn't account for
12 that.

13 So as we heard testimony, you can have fall soil
14 nitrate tests that can be in the high category or even
15 the very high category, and if you're bringing on a crop
16 right after that, it can use the nitrates that are
17 remaining in the soil and use those nitrates up
18 throughout the winter.

19 We talked about in our opening papers filed with
20 this board and the doom loop, and this is the concern,
21 that Table 3 does create a doom loop in the sense that it
22 doesn't allow crops to be grown at their productive level
23 because of the constraints on the nitrate ranges.

24 And the result of that is that you have a crop
25 that's not actually able to perform what we would like to

1 see it performing here, what Ecology would like to see it
2 performing, which is to be healthy enough to take up the
3 maximum amount of nitrogen.

4 And Table, 3 unfortunately, creates that effect.
5 So, again, the dairy industry -- dairy farmers are not
6 against nutrient budgets or against agronomic
7 application.

8 In fact, we support that because that is protective
9 of soil, and that is protective of surface and
10 groundwater, but we need to have a tool in the permit
11 that actually comports with that goal.

12 And, as developed, Table 3 and the adaptive
13 management requirements that fall from those specific
14 nitrate ranges doesn't accomplish that.

15 So -- and it does create economic effects as well,
16 right. I mean, that is part of one of the considerations
17 that Ecology has to take into account as it's developing
18 the permit terms.

19 And when you have a table and restriction that, on
20 one hand, doesn't provide the best protection for surface
21 and groundwater because it's not comporting with how
22 crops actually perform that function by uptaking nitrates
23 and nitrogen, it also puts constraints on the ability of
24 a farmer to grow the crops they need in order to feed
25 their livestock.

1 And so there are a myriad of negative impact. And,
2 again, Table 3 that's constructed that makes sense with
3 what's happening on the ground with regards to annual and
4 perennial crops and double cropping will be protective of
5 groundwater and surface water and the industry supports
6 that.

7 But unfortunately, as Table 3 was constructed,
8 because it was sort of compiled in the way that it was
9 and didn't account for double cropping, doesn't meet that
10 goal.

11 So last issue, 19. Issue 19 relates to the
12 lagoon -- what I'm going to call the lagoon standard, and
13 the concern raised by the industry related to sort of the
14 surprise addition of the parenthetical in the permit at
15 the last moment related to where you measure vertical
16 separation from, from the outside of the earthen liner.

17 And you heard the testimony from the executive
18 director of the dairy federation that indeed it was such
19 a surprise that the industry thought it was a mistake at
20 first.

21 So while we heard testimony about it being, on one
22 hand, a longstanding policy, I would submit to you that a
23 longstanding policy shouldn't come -- is not the same as
24 a surprise in the final draft.

25 Part of the concern that you also heard is that that

1 terminology was not presented at any of the draft
2 permits, and industry and the public did not have the
3 opportunity to actually comment on that.

4 And I submit to you that, if they would have, we
5 might have ended up with a very different permit term
6 because of the concerns raised.

7 So on one hand, with regards to the lagoon standard,
8 we have an existing standard. We have NRCS standard, and
9 there's been debate about whether it's a guideline or a
10 standard or a regulation, and I understand that.

11 But it is an existing standard. It's a standard
12 that was used by Ecology in the 2006 CAFO permit. It's a
13 standard that is currently being used by Washington State
14 Department of Agriculture in the implementation of the
15 Dairy Nutrient Management Act, and it is a standard that
16 has been used by NRCS not only in this state, but also in
17 states across the U.S.

18 It's a standard that has been proven based upon
19 decades of research, based upon experimentation, if you
20 will, with lagoons that haven't worked, and an evaluation
21 of why they haven't worked, an incorporation of changes
22 as a result of that failure into the standard.

23 And there's also been sort of a negative
24 connotation, if you will, cast upon NRCS, and I think if
25 Mr. Reck had been able to be here, he would have been

1 quite concerned with that.

2 But what he testified to in his deposition -- and
3 it's obvious by the name of NRCS is that it is the
4 Natural Resource Conservation Service.

5 And the standards that NRCS design are conservation
6 practice standards. And as Mr. Reck testified to, their
7 practices are designed intentionally to be protective of
8 natural resources.

9 So, yes, they're not the EPA, but that does not mean
10 that their goal is to pollute. Their goal is to design
11 standards that are workable for folks on the ground but
12 also are protective of natural resources.

13 And, in fact, based upon, again, decades of
14 experience and research, they have demonstrated
15 repeatedly -- and you can see this in Appendix 10 D; it's
16 talked about there -- the limitations on seepage and what
17 they do, what the liner does.

18 And you can also see this in the deposition
19 transcript from Mr. Reck, that a lagoon that is designed
20 to NRCS standards is protective of groundwater, not just
21 with regards or the nitrates, but also with regards to
22 both viruses and pathogens.

23 And as is explained -- and we sort of were starting
24 to touch on this a bit yesterday as well -- it's not the
25 vertical separation beneath the lagoon or wherever you

1 measure it from that performs that, it is the liner that
2 performs that function.

3 I'll talk about that more in just a minute, but the
4 concern here is that, rather than using a tested and
5 tried and known standard here, Ecology departed from that
6 NRCS standard. They departed from what Washington State
7 Department of Ag is doing, and they had departed from
8 what they had done previously.

9 And they did it without providing notice and
10 opportunity for the public to comment on that departure.
11 The basis that we've heard for that departure is -- has
12 been narrowed down to concern about viruses.

13 We heard testimony from Ms. Redding that that is
14 the -- that is the concern. We -- we've confirmed that
15 at least Ecology agrees that the liner can be addressing
16 nitrates and addresses bacteria.

17 But the one issue that Ecology raised during
18 testimony is viruses, but we also heard the testimony
19 from Ecology that viruses -- Ecology, specifically
20 Ms. Redding, wasn't sure whether viruses in the lagoon
21 would actually pose a risk to humans.

22 So I would propose to you that the basis for this
23 additional two-foot -- or this additional vertical
24 separation that's required in the permit is based upon
25 assumption but not actual knowledge about a risk.

1 And if you look at the literature review, we can see
2 that this additional vertical separation requirement is
3 based upon information and literature related to human
4 septic systems.

5 Well, there, you would probably have a concern about
6 risk of viruses that would be transferable to humans, but
7 this is not a human system. This is a manure lagoon.

8 And as we heard from Dr. Harrison, the -- if there
9 are viruses in the manure lagoons, they do not pose a
10 risk to humans because, again, if there are viruses in
11 the manure lagoon, they are not the types of viruses that
12 would be transferable to humans.

13 So, again, the sole basis for Ecology adding this
14 additional vertical separation is viruses, but it's
15 without foundation because the very concern about viruses
16 is based upon a lack of understanding or a lack of
17 knowledge about whether those viruses would actually
18 pose, even pose a risk to humans.

19 Then there's also some confusion around -- around
20 the two-foot vertical separation and wouldn't that put us
21 into groundwater, and just may be a misunderstanding of
22 what the NRCS standard actually does.

23 As you can see in the NRCS standard itself and in
24 the testimony from Bill Reck and even in the testimony
25 from Ms. Redding, you cannot build an NRCS lagoon into

1 groundwater. That is prohibited. That is not allowed by
2 the standard.

3 So whether you have a one-foot liner or you have a
4 two-foot liner, what's happening within that liner is the
5 treatment of the nitrates prevention of viruses and
6 bacteria, and you have a -- again, a proven technology to
7 provide those benefits.

8 And, again, I think part of the concern here stems
9 from the fact that, if we go back to the specialized
10 knowledge and expertise of Ecology, Ms. Redding was
11 basing, again, this vertical separation on -- primarily
12 on a literature review.

13 She has not had on-the-ground experience or the type
14 of experience that NRCS has had with manure lagoons, how
15 they operate, and the type of protection that they
16 provide.

17 And as Mr. Reck testified, indeed manure lagoons are
18 proven to provide protection to groundwater to provide --
19 to prevent contamination of groundwater from any of those
20 sources.

21 And that testimony was further supported by the
22 testimony of Dr. Lindsey who talked about the vadose
23 zone, about how the vadose zone works, about the fact
24 that manure lagoons don't always leak.

25 And Mr. Reck's testimony was similar, that there is

1 variation in how -- in the seepage and the seepage rates
2 based upon what's going on with the head. And, again,
3 these liners are designed to be protective.

4 And Dr. Lindsey also pointed out another sort of
5 foundational issue with regards to Ecology's assumptions
6 about lagoons.

7 When we talked about the equation that was used by
8 Ecology to evaluate the extent of seepage and Ecology did
9 admit on the record that they had -- had not used the
10 correct equation to evaluate that.

11 So, again, back to the public comment concern, sort
12 of have to take on faith, if you will, Ecology's position
13 that this is sort of a longstanding view because we heard
14 from Mr. Moore that it's never been implemented in
15 another permit. It hasn't been enforced, and we haven't
16 seen it show up in any documentation prior to the final
17 permit.

18 And, again, that is why --I think you heard from the
19 industry that it was believed to be a mistake when they
20 saw the final document.

21 And the concern is that, without having that public
22 comment on notice, that's a procedural error, opportunity
23 for public comment and notice, but it also created a
24 substantive issue here because Ecology did not have the
25 opportunity to hear and understand either the economic

1 impact of that requirement, which, as we heard, will
2 require reconstruction, redesign, at very expense -- high
3 expense to the industry.

4 And Ecology also didn't have the opportunity, if you
5 will, to go back and have the follow-up conversations
6 with NRCS to understand how its lagoon design works and
7 what it does.

8 And we didn't hear testimony that Ecology even
9 discussed that with Washington State Department of
10 Agriculture, which is implementing the same standard.

11 So while this was a procedural error, it also
12 resulted in a significant substantive issue as well. So
13 I would submit to you that all of these issues equate to
14 a non-AKART standard.

15 The lagoon standard that was submitted that is part
16 of the permit does not at least meet the reasonableness
17 requirement for AKART both because Ecology couldn't
18 account for the economics because it didn't put this out
19 for public review, but it also doesn't meet the known
20 methodology requirements.

21 Here we have a permit term that is showing up for
22 the first time in this permit. It's never been imposed
23 before. We don't have any research demonstrating that it
24 is a more protective standard than the NRCS standard
25 because it's a newly constructed standard.

1 MR. TEBBUTT: Ms. Francks, I have to
2 interrupt. I mean, you told us we only had 40 minutes.

3 MS. HOWARD: I have two more minutes.

4 MR. TEBBUTT: She's eight minutes
5 over, nine minutes over.

6 JUDGE FRANCKS: According to what?

7 MR. TEBBUTT: According to what you
8 said.

9 JUDGE FRANCKS: No. But what are
10 you --

11 MR. TEBBUTT: She started at 9:40.

12 JUDGE FRANCKS: Where's the chess
13 clock?

14 MR. TEBBUTT: She started at 9:40.
15 It's now 10:30.

16 MS. NICHOLSON: She started a 9:42. I
17 wrote it down.

18 MR. TEBBUTT: All right. Seven
19 minutes over.

20 MS. HOWARD: I'm almost done.

21 MS. NICHOLSON: She is two minutes.

22 JUDGE FRANCKS: I didn't pay
23 attention, so -- yes. Wrap it up. And I'll give you
24 extra time.

25 MS. HOWARD: Thank you.

1 In conclusion, the three issues that we raised here
2 are Issue 5, 6, and 9.

3 And in each of these instances, we've demonstrated
4 through testimony and evidence that's been submitted to
5 the board that Ecology has not met the AKART standard.

6 It has not met it with regards to soil samples, with
7 regards to the nutrient ranges in Table 3 or with regard
8 to the lagoon liner standards.

9 The permit terms are not economic. So, therefore,
10 they do not meet the reasonableness standard. They're
11 not based on tried and known methods that are protective
12 of groundwater and surface water, and they, therefore, do
13 not meet AKART.

14 By definition, because they do not meet AKART, they
15 are not lawful, and, therefore, we ask that the board
16 remand the permit to Ecology to address each of those
17 terms and to produce a permit that will comport both with
18 methods and standards that are protective of the
19 environment but are also workable on the ground for dairy
20 farmers.

21 Thank you.

22 JUDGE FRANCKS: Thank you.

23 So what's the total time that Ms. Howard used?

24 MS. NICHOLSON: She used three extra
25 minutes of -- she used four extra minutes.

1 MR. TEBBUTT: That's just bad math.

2 It's -- 49 minutes she was up there.

3 MS. NICHOLSON: No, she wasn't.

4 JUDGE FRANCKS: Okay. Well,

5 Mr. Tebbutt --

6 MR. TEBBUTT: 18 and 31 equals 49 in

7 my book.

8 JUDGE FRANCKS: Let's take a
9 ten-minute break, and then we'll have Ms. Barney's
10 closing.

11 So we're off the record. We'll be back at 10:45.

12 (Pause in the proceedings.)

13 JUDGE FRANCKS: Have a seat. Let's go
14 back on the record. And we have Ms. Barney's closing
15 argument.

16 MS. BARNEY: Good morning. Phyllis
17 Barney, Assistant Attorney General, representing the
18 Department of Ecology.

19 Department of Ecology has written CAFO permits that
20 contain reasonable effective steps for concentrated
21 animal feeding operations to take to protect water
22 quality.

23 The permits meaningfully address the risk to water
24 quality posed by CAFOs in a variety of ways and require
25 operators to apply effluent limitations for the

1 protection of water quality of their facilities.

2 These effluent limitations and requirements result
3 in permits that are more stringent than the prior 2006
4 CAFO permit.

5 Appellants here have the burden of proof in this
6 appeal. They must show that Ecology acted unlawfully,
7 outside its legal authority or exercises discretion
8 arbitrarily and capriciously.

9 The board gives deference to Ecology's expertise in
10 administering water quality laws, and the board also
11 gives deference to Ecology's technical judgment,
12 especially where that judgment involves complex
13 scientific issues as this case involves.

14 Because the CAFO permits are consistent with state
15 and federal law, contain reasonable conditions, and are
16 protective of water quality, they're based in the sound
17 review of relevant science, and the appellants here
18 cannot meet their burden.

19 In the discussion of nutrient management plans, the
20 Waterkeeper decision, which examined EPA's CAFO rules,
21 states that the terms in the nutrient management plans
22 become effluent limitations in the permit.

23 Ecology agrees with that. And, in fact, Ecology
24 agrees to the extent that it decided to, in effect, stop
25 depending on each individual producer to write their own

1 effluent limitations that are then sort of, in a
2 backwards looking way, incorporated into the permit and,
3 instead, decided to take those effluent limitations,
4 develop effluent limitations for those requirements, and
5 include those in the permit as permit conditions
6 themselves.

7 So 40 CFR 12242(e) would have a facility identify
8 protocols for appropriate testing of manure and soil.
9 The permit does that. Ecology put those requirements in
10 the permit and is not waiting for a producer or facility
11 to write those and then submit them.

12 And rather than having a facility establish
13 protocols for land application, the permits sets out not
14 only land application requirements and limitations, but
15 implements requirements, certain best management
16 practices, and requires implementation of other best
17 management practices to meet land application performance
18 standards that are in the permits.

19 And so on down all the factors that are in the
20 federal regulations, as our demonstrative exhibit showed
21 in that same table is also in our summary judgment
22 briefing for your reference, all of those requirements
23 from the federal regs are in the permit as enforceable
24 permit conditions.

25 Technology-based effluent limitations for CAFOs are

1 set in the federal regulations in 40 CFR 412. These
2 limitations are incorporated into the CAFO permits as
3 well as are additional limitations as determined by
4 Ecology.

5 Together, these enforceable limitations are the
6 performance standards for the permit, which is what
7 Waterkeeper decision and federal law requires.

8 Equating the nutrient management plans in the --
9 requirements in the federal CAFO rules to the Manure
10 Pollution Prevention Plan means you're looking in the
11 wrong place.

12 The effluent limitations are in the permit. The
13 MPPPs are where an individual facility shows their work.
14 It's the "how" to the permit limitations, and the permit
15 limitations are the limitations, the "what."

16 The manure plan must be developed and implemented.
17 If it is not, that's a permit violation.

18 Additionally, the manure plan must be effective. If
19 it's not, the performance standards are not met, and that
20 also is a permit violation.

21 Ultimately, if EPA disagreed with Ecology's decision
22 to include the effluent limitations required by the CAFO
23 rule in the permit itself, EPA would have exercised its
24 option and not approved the CAFO permits, but EPA did not
25 do that.

1 And, again, we continue to hear a lot in our
2 discussion about what is AKART. Again, AKART, all known
3 available and reasonable methods of prevention,
4 treatment, and control of pollutants.

5 AKART for CAFOs is the full implementation and
6 compliance with the permits as a whole. This includes
7 permit conditions as well -- permit conditions for
8 composting pens and facilities as well as those
9 addressing land application areas and lagoons.

10 To meet the AKART requirement, you can't pick apart
11 and view one or another permit condition in isolation.
12 Soil testing and lagoon standards are integrated with
13 field budgets and must be implemented together with field
14 application rates which also must consider land
15 application practices as well as best management
16 practices in the manure prevention plans.

17 The permit conditions are knit together, and you
18 can't tease one separately and then try to do a separate
19 individualized AKART analysis on those. They all work
20 together.

21 Soundkeeper argues that synthetic liners are
22 required in order for the permits to be AKART, but while
23 synthetic liners may be used in other industries, they're
24 not utilized across CAFOs and not across CAFOs in
25 Washington, as Soundkeeper's expert testified.

1 And, in fact, Mr. Erickson testified that he does
2 not believe the double lined with leak detection
3 synthetic liners for CAFO lagoons are necessary at other
4 facilities, other than the CAFO dairy cluster in Yakima.

5 For newly constructed or significantly refurbished
6 lagoons, the permit requires them to meet the performance
7 standard of the one times ten to the minus six
8 permeability.

9 Ecology does not assume, as Soundkeeper does, that
10 all lagoons in Washington are failing. This is why the
11 permits in this cycle recall -- require an evaluation of
12 lagoon construction which will provide data to begin to
13 provide some insight in a systematic way that will assist
14 assessing lagoons risk to groundwater.

15 If a specific lagoon ends up in a higher risk
16 category, the facility must develop a plan to address
17 that risk.

18 And also related to lagoons, the dairy federation
19 stated that Ecology has changed its definition of what a
20 two-foot separation means. It did not.

21 Ecology's interpretation of how to measure a
22 two-foot separation between the lagoon and the water
23 table has not changed.

24 The permit is merely -- merely clarify Ecology's
25 longstanding view that the proper measurement is from the

1 bottom of the liner, not the top of the liner.

2 Specifying that measurement in the permits was
3 Ecology's response to indications it was hearing with
4 regard around the hearings around the CAFO permit that
5 there was confusion on that point.

6 While the permits merely specify the language, that
7 language was added to clarify Ecology's interpretation
8 and is not a change in position.

9 In Mr. Reck's deposition on Page 6, after he
10 confirms that the NRCS standards are not federal
11 regulations, he testified that the purpose of -- that
12 NRCS has for the two-foot vertical separation is for
13 structural integrity of the liner, a decrease in seepage
14 rate, and the constructability of the liner.

15 But Ecology imposes that two-foot vertical
16 separation for treatment and an activation of pathogens.
17 That's Ecology's longstanding position across waste
18 treatment programs.

19 Dr. Harrison opined on research work related to the
20 manure digesters that apparently had a component related
21 to pathogens and reported no pathogens found in those
22 instances.

23 The board should give the report of that research
24 very little weight. That testimony was introduced to
25 illustrate Dr. Harrison's -- the breadth of his expert

1 work as part as an employee of Washington State
2 University and as part of his background experience.

3 The board has neither seen nor had the opportunity
4 to evaluate any of that research and was not -- it was
5 not addressed directly in testimony other than as the
6 background to his experience.

7 The results he reported are not sufficient to
8 support a blanket finding that treatment of pathogens
9 should not be of concern to Ecology, particularly where
10 this board hasn't had the chance to examine that research
11 itself.

12 Dr. Harrison is not a microbiologist as Ms. Howard
13 stated. He is a specialist in nutrient management. He's
14 worked on the Sullivan and Cogger paper, and he works
15 with producers.

16 And, granted, Melanie Redding testified she's not a
17 microbiologist, but she has worked specifically on
18 viruses in groundwater and provided testimony on the
19 concerns Ecology has with regard to their infectious
20 nature and how long they remain viable in groundwater.

21 Ms. Redding's testimony did discuss bacteria but did
22 not eliminate bacteria from concern. While she agreed
23 that it might be possible that through the lagoon liner
24 bacteria would be filtered out of what then is discharged
25 below the liner level, that doesn't mean that Ecology is

1 discounting the possibility of bacterial pathogens that
2 would seep through a liner.

3 In discussing surface water monitoring, it seems
4 that at times we have muddied exactly, what are we
5 talking about when we talk about surface water
6 monitoring?

7 As Mr. Moore testified, he considers that the permit
8 requires monitoring for surface waters in the way that it
9 requires visual monitoring of a facility to detect
10 surface discharges, and such discharges would be permit
11 violations.

12 If surface water monitoring refers to analytical
13 laboratory analysis, classically in the NPDES program,
14 that means that you are measuring pollutants that are in
15 a water sample that is coming off of a facility either
16 being discharged through a pipe or some other conveyance.

17 The combined permit only authorizes a discharge to
18 surface waters during a 25-year 24-hour storm event, and
19 the State-only permit does not even authorize that.

20 Outside of the specific event, there is not a
21 discharge authorized to surface water from that -- that
22 the permit authorizes, so how could monitoring of surface
23 water discharges reasonably be required?

24 Soundkeeper also argued for receiving water
25 monitoring. That is not a sample from a site discharge,

1 but setting up a program to sample water quality above
2 and below a facility in order to assess whether or not a
3 discharge to surface water has occurred.

4 Setting up such a program certainly can be done, but
5 it's not necessarily simple and not necessary at every
6 single facility that has potential to be covered by the
7 CAFO general permit.

8 As Soundkeeper's expert, Dr. Keeney testified, in
9 order to eliminate other sources other than the CAFO that
10 is under permit, other properties would also have to be
11 sampled, and additionally there are technical challenges
12 to ensuring relevant and representative sample taking,
13 given the nature of storms and stormwater and the nature
14 of intermittent discharges.

15 But even more fundamentally, Soundkeeper's arguments
16 that the permit should require surface water monitoring
17 rely, at least in part, on documentation of practices at
18 facilities that are not under the 2017 permits and
19 facilities where there have been a history of practices
20 that likely would be permit violations if those
21 facilities were permitted.

22 It is the permit conditions that are under appeal
23 here, not past practices or current practices at
24 facilities that have not even been shown to be attempting
25 to comply with permit terms.

1 As it relates to groundwater monitoring, yes, in
2 order to know what's in the groundwater, you have to
3 sample it and have it analyzed.

4 But as Mr. Erickson testified, once nitrate reaches
5 groundwater, you can't trace that nitrate back to a
6 particular practice at a CAFO.

7 You have to address areas at a CAFO based on their
8 risk level, and risk management is exactly what the CAFO
9 permits do.

10 Ms. Redding testified that land application areas at
11 a CAFO pose the greatest risk to groundwater. The
12 permits contain requirements for field budgets,
13 appropriate application rates that provide for the
14 maximum plant uptake of nitrate from the soils.

15 Then at the end of the growing season, the adaptive
16 management requirements of Table 3 is the -- those are
17 the checks and balances of how the field budgets and
18 application rates performed.

19 The fall soil sampling allows for a year-to-year
20 feedback loop with specific responses to high residual
21 nitrates baked into the table itself.

22 This feedback and requirement adaptive management
23 was not part of the 2006 CAFO permit and makes the 2017
24 permits far more protective of groundwater.

25 We have heard setting up a groundwater monitoring

1 plan is not a simple matter. Sink wells and sampling
2 costs money.

3 EPA had installed approximately 30 to 40 monitoring
4 wells at the Yakima cluster dairies, and yet even 12 more
5 wells had to be installed.

6 Groundwater monitoring around land application areas
7 is also complicated by the trading and swapping of fields
8 that occur -- that we've heard occurs year to year.

9 Groundwater monitoring around lagoons compost areas
10 and animal pens have similar technical challenges.

11 Ecology determined that the performance standards
12 contained in the permits for these areas are protective
13 of groundwater quality. The permits do require
14 groundwater monitoring in specific instances that you
15 have heard about.

16 Those places are the high trending portion of the
17 Table 3 adaptive management and where there's
18 insufficient separation of lagoon bottom from the
19 groundwater table.

20 As to soil monitoring, the permits require spring
21 and fall soil monitoring. Both are necessary because
22 they serve a different purpose. Fall sampling is the
23 report card that triggers adaptive management for the
24 coming year.

25 The spring sampling allows a producer to know what

1 the level of nitrate in their soil is in order to
2 calculate proper forward looking field-specific budgets.

3 Dr. Harrison and Mr. Haggith both testified that the
4 spring sampling is not useful, but it is difficult to
5 ignore. The presence of the small but significant amount
6 of nitrate that their own work found present and
7 variable -- highly variable in spring soils.

8 The result of ignoring that -- the presence of
9 nitrate that is available and testable in spring soil is
10 the danger of overapplication of nutrients to the field,
11 and that presents the risk to groundwater.

12 And ultimately Dr. Neibergs testified that the cost
13 of the soil sampling regime in the permit could be
14 managed and incorporated by dairies.

15 Both Dr. Harrison and Mr. Haggith argue that the
16 October 1st deadline for soil monitoring is unattainable,
17 but their arguments fall into the trap of reading that
18 single permit provision to the exclusion of other
19 provisions in the permit.

20 A CAFO can collect a fall sample after October 1st.
21 It's just that additional conditions apply. Other
22 conditions in the permit address the idea of
23 overwintering crops, perennial crops, and cover crops.
24 It just means that a new fall nutrient budget has to be
25 calculated for those cover crops.

1 For -- it's kind of ironic for the date of
2 October 1st, Ecology relies on the Sullivan and Cogger
3 reference, which everybody else relies on for absolutely
4 everything else except for the fact that Sullivan and
5 Cogger says, collect the sample. It's best if you can do
6 it by October 1st, if possible. Everyone would like to
7 ignore that, bottom of Page 2, right column.

8 But what's even more important is that Ecology
9 didn't rely on one single reference here to determine
10 that date.

11 The literature review reviewed scientific
12 peer-reviewed journal papers and found that that date
13 falls well within the range of the expected dates for
14 correct fall sampling that appears in the literature.

15 The origin story that we heard for the adaptive
16 management table here this morning is incorrect. As
17 Mr. Jennings testified on the first day of this hearing,
18 Ecology looked at a table that was being used by the
19 Washington State Department of Agriculture and that had
20 benchmarks that appeared to be used and familiar to
21 producers in the field and then set about to truth check
22 the nitrogen -- the nitrate level benchmarks that are in
23 the adaptive management table with the literature review,
24 and that work was done.

25 Table 3 sets out reasonable responses and is

1 actually responsive to two conditions in the field for
2 CAFOs, but there are two different columns, one of which
3 addresses the year-to-year change that we've heard can
4 happen and be extremely dramatic, given crop failures or
5 other climate -- climate issues that may have happened in
6 any given year, as well as the trend column, which
7 addresses the long-term -- longer-term management
8 practices, how the facility is doing over a greater
9 period of time.

10 Those two columns lead to actually a very
11 sophisticated response. If you have a single year, the
12 permit allows you to take adaptive -- adaptive measures,
13 but also allows that it could possibly be that the next
14 year you'll be back at compliance or back at a benchmark
15 level that actually has you in the low or moderate level.

16 As the adaptive management table gets to the end
17 toward the very high category, the response is more
18 aggressive.

19 The benchmarks that define these levels are well
20 within the ranges that are available in the literature
21 for different cutoffs of when there is a moderate risk, a
22 high risk, and a very high risk.

23 While Soundkeeper calls for numeric limits for
24 nitrate and phosphate, the effluent limitations contained
25 in the permit are protective of water quality.

1 Nitrate amounts are regulated by the performance
2 standards in the permit. Phosphorous is also regulated.
3 Phosphorous is required to be tested for and is a
4 component of the required field budget.

5 If a CAFO reaches their calculated budget for
6 phosphorous before they reach their limit on nitrate,
7 they're required to stop application.

8 And if they need further nitrate for the field, they
9 have to find it in fertilizer that does not contain
10 phosphorous, and they must stop using nutrients.

11 Additionally, because the permits essentially
12 prohibit discharges to surface water, Ecology determined
13 that because phosphorous binds to the soil, it is
14 uncommon in groundwater, and no numeric limit is
15 necessary.

16 Soundkeeper relies heavily on CARE's Yakima dairy
17 litigation, both the Eastern District's decision and on
18 the investigative work it conducts there. But, again,
19 that case was prosecuted under RCRA, not under the Clean
20 Water Act, nor RCW 90.48.

21 The standard the Court was applying there was that
22 the Cow Palace dairy operations contributed or are
23 contributing to disposal of solid waste, which may be
24 posing a serious threat to the public.

25 The Court was also very clear that its decision was

1 specific to the dairy clusters. The sampling done at the
2 dairy demonstrated that the dairy's lagoons were leaking.

3 The evidence showed that the dairy had excessively
4 overapplied manure to the agricultural fields in complete
5 disregard of its nutrient management plan.

6 In fact, EPA in 2010 identified those very same
7 dairies as a problem. So this is no surprise.

8 But these site-specific findings do not provide a
9 basis on which to evaluate the 2017 CAFO permit
10 conditions and their protectiveness of water quality.

11 The permit conditions were never applied at those
12 facilities in their 40 years' worth of operations.
13 Similarly, assuming that facilities under one of the
14 permits will violate permit conditions is not a basis on
15 which to challenge permit conditions.

16 Ecology's permits, when complied with, are
17 protective of water quality. The result of a violation
18 of those -- the result of the violation of those
19 conditions is enforcement, not a change of the permit
20 conditions.

21 The dairy federation asked Ecology to include in the
22 permits a tool to provide certainty for when spring
23 applications can begin, rather than the term "green up."

24 Well, now the dairy federation is asking Ecology to
25 use "first heavy rain" as a standard as opposed to the

1 October 1st certainty -- date certain in the permit for
2 collecting samples.

3 But what the dairy federation suggested in place of
4 "spring green up," as it relates to land applications,
5 was T-sum 200.

6 Ecology in the literature review looked at using
7 T-sum 200 using other tools based on rainfall and looked
8 at the application risk management system, the ARM system
9 that we've heard about, but recently chose to use T-sum
10 as a tool for operators.

11 And once again, it's important to remember that
12 T-sum 200 doesn't operate in a vacuum. None of the
13 permit terms do. The benefit of Mr. Haggith sees with
14 ARM, the requirement is to go out. Look at your fields.
15 Know where the water table is. Don't apply when rain is
16 forecast.

17 And all the rest that are components of ARM are good
18 management practices. They are applied in addition to
19 the T-sum, which looks not necessarily at weather, per
20 se, but actually looks at temperature. And waiting until
21 the cumulative temperature of soil is sufficiently high
22 that the soil is warm enough to facilitate mineralization
23 and crop growth means that nutrients land applied will be
24 taken up by those crops.

25 This protects groundwater. This is the treatment of

1 nutrients by land application, and this is the goal of
2 the permit.

3 It is true that either sets of appellants here will
4 likely have written the permits differently. Ecology
5 evaluated the science, met with stakeholders and the
6 regulated community, utilized its extensive regulatory
7 and permitting experience, and developed permits that are
8 protective of water quality.

9 Ecology respectfully requests that the board affirms
10 the 2017 CAFO permits in full.

11 Thank you.

12 JUDGE FRANCKS: Thank you.

13 Mr. Tebbutt, according to my calculations,
14 Ms. Howard went over no more than six minutes, so I'm
15 going to give you nine minutes, but feel free to use
16 less.

17 MR. TEBBUTT: I certainly will. And
18 it does remind me of a Saturday Night Live skit with
19 Chevy Chase, "There will be no math" in relation to the
20 Gerald Ford debate with Jimmy Carter.

21 Industry's counsel misrepresented the science and
22 the testimony in this case with regard to -- I'm not
23 going to go into how many, but I'll just give you an
24 example.

25 The lagoon liners, regardless -- I mean, we know

1 that NRCS is irrelevant here, but still the lagoon liners
2 only deal with pathogens, not with nitrate. Everyone
3 testified to that.

4 The record contradicts on many of those points, and
5 I'm not going to continue here on all of those things
6 because the record does reflect that.

7 And, again, I can't resist one. The doom loop isn't
8 the problem here. It's the doo doom loop. There's way
9 too much manure to handle here.

10 The laws are strong, but they're not being applied
11 in any meaningful way to stop the known ongoing
12 pollution. That's the main point here.

13 Two federal judges found that inspections done by
14 the Washington State Department of Agriculture on the Cow
15 Palace and Faria properties, two separate judges, were
16 that WSDA inspection said, "Great attention to nitrates."

17 Those facilities, the same time those reports were
18 going on, were polluting the groundwater of the
19 communities around them.

20 I ask this panel to read carefully the judge's
21 decisions in CARE versus Faria and CARE versus Cow
22 Palace. I don't know how you can come to a different
23 conclusion.

24 Just a couple other points. Mr. Erickson's model
25 that Ms. Howard talked about was just to show this board

1 how the contamination reaches groundwater.

2 The 32 monitoring wells -- and, by the way, they
3 didn't all have to be put in to show that contamination
4 was happening, but have been put in to show the extent of
5 the contamination and have shown it.

6 Again, the model was not shown to this board just to
7 prove the discharge, but to demonstrate how it gets
8 there. Those 32 monitoring wells prove that these
9 communities are being manured upon at great length.

10 The 32 monitoring wells, the samples from, I think,
11 around 20 fields, three compost areas and three animal
12 pens, show the real impacts.

13 All of that -- and there's discussion about how Cow
14 Palace is different. If you went to Cow Palace, you
15 would see that Cow Palace looks better than any other
16 dairy you'd probably ever go to in the state.

17 But all the rest of them are worse. DeRuyter is
18 five times worse. Mr. Haggith, his partner, a contractor
19 for the dairy federation, they're boys.

20 If allowed, Mr. Haggith worked for DeRuyter dairies.
21 One of the five -- and he was the one there at the time
22 that DeRuyter was causing the problems before the EPA
23 study and during -- in early parts of the study, that
24 show the facility is five times worse than Cow Palace,
25 and he was the one making recommendations to DeRuyter.

1 MS. HOWARD: Your Honor, I'm going to
2 object. That was not in testimony in this case.

3 MR. TEBBUTT: That's an offer of proof
4 that we made.

5 JUDGE FRANCKS: Mr. Tebbutt, let's
6 limit to ourselves to what's happened in our hearing and
7 issues before the board.

8 MR. TEBBUTT: These are issues before
9 the board because that's why we made our offers of proof.
10 If we were allowed to get all our testimony in, we would
11 have proved that too.

12 Remember, Judge Rice found that DeRuyter -- Cow
13 Palace was causing or contributing to an imminent
14 substantial threat to human health in the environment,
15 and DeRuyter is five times worse.

16 No other industry would be allowed to continue to
17 pollute at the levels that this industry has done without
18 an actual plan to stop the discharges and to clean up the
19 damage.

20 Ms. Barney talked about technical expertise. Well,
21 you can't contravene the law. The law says, "Thou shalt
22 not discharge to groundwater and contaminate it."

23 That's exactly what's happening. Ecology says, Look
24 at the whole. Look at the whole, w-h-o-l-e, and it shows
25 the holes, h-o-l-e-s, that allow contamination to surface

1 and groundwaters, putting tens of thousands of people at
2 risk every day.

3 Even assuming that the lagoons meet NRCS
4 standards -- and they talked about whether you can prove
5 that they weren't or not -- it doesn't matter because
6 they cause groundwater contamination. That's proven.
7 Accepted by federal judges. Proven by very basic
8 science.

9 Ms. Barney also argues that Cow Palace case is
10 irrelevant because RCRA was the case, not the Clean Water
11 Act. Well, RCRA governs groundwater contamination.

12 The State has an obligation to protect groundwater,
13 so they are similar. They're exactly the same thing.
14 Washington law requires the protection of groundwater.

15 1970, the radical environmentalist Richard Milhous
16 Nixon said in the State of the Union address, "It's the
17 right of everyone to have clean air and clean water."
18 1970.

19 We don't have it today. We don't have a permit
20 that's protecting the people of the state of Washington.

21 We know you give deference to the agency. That's
22 what this board is set up to do, but not where the
23 violations of the law are so clear.

24 State of Washington attorney general's office has an
25 obligation to, first and foremost, protect the people of

1 the State of Washington, as does Ecology.

2 Tens of thousands of people are at risk, as we sit
3 here today, and have been. CARE has put this in front of
4 this board before.

5 You three, Mr. Wise, Ms. Brown, Ms. Marchioro, have
6 the ability and opportunity and responsibility to require
7 Ecology to do the right thing. You have the opportunity
8 to be on the right side of history.

9 History has shown -- is showing, as we sit here
10 today, that tens of thousands of people are at risk, and
11 it's ongoing and it's unabated, and this permit does not
12 address the fundamental factors that cause that
13 contamination.

14 We hope you are on the right side of history and
15 thank you for your time.

16 JUDGE FRANCK: Thank you. So we have
17 concluded the hearing, and I'm adjourning the hearing
18 right now.

19 I'm going to let -- excuse the board.

20 And the one last procedural thing I need to do is, I
21 want to walk through the exhibits and make sure that my
22 records fit with your records as to what's been admitted,
23 etc.

24 So with that, we'll go off the record, and then
25 we'll go back on.

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(Board members exit.)

JUDGE FRANCKS: Okay. I'm just going to go back on my -- let's go back on the record.

I'm just going to go down my charts, and if you think I'm missing something or I'm -- I've got something wrong, let me know, and then we'll figure out where we stand.

Okay. So starting with A, A-1 admitted.

A-2, A-3, A-4, A-5 all admitted.

A-6, 7, 8, 9 are all admitted.

I have nothing for A-10.

A-11 is admitted.

A-12 was not.

Then I have nothing for A-13, 14, and 15.

A-16 was admitted.

I have nothing for 17.

A-18, 19, 20, 21, and 22 were all admitted.

I have nothing for 23, 24, 25, 26, 27, and 28.

MR. TEBBUTT: Your Honor, if I may just stop for a second. When you say you have nothing, I mean, some of these were offered but not allowed.

JUDGE FRANCKS: Okay. Then tell me that.

MS. KINN: Exhibit A-24 was offered twice and not admitted.

1 JUDGE FRANCKS: Okay.

2 MS. KINN: And Exhibit A-27 was
3 offered and also not admitted.

4 JUDGE FRANCKS: Okay. And does anyone
5 have a different --

6 MS. ROSE-JOHNSTON: That's what my
7 notes reflect as well.

8 JUDGE FRANCKS: All right. So we're
9 up to A-29? Did I miss anything else?

10 MS. KINN: That's it.

11 JUDGE FRANCKS: Okay. That's exactly
12 what I'm looking for.

13 Okay. I have nothing for 30, 31, 32.

14 A-33 was admitted.

15 Then I have nothing for 34, 35, 36, and 37.

16 I have A-38 was not admitted.

17 And A-39 as well; right?

18 MS. ROSE-JOHNSTON: Right.

19 JUDGE FRANCKS: My notes are a little
20 messy.

21 A-40, I have nothing.

22 A-41 was not admitted.

23 A-42, I have nothing.

24 A-43 was admitted.

25 A-44, I have nothing.

1 A-45, 46, and 47 were all admitted.

2 A-48, 49, and 50, I have nothing.

3 MS. KINN: A-50 was admitted.

4 JUDGE FRANCKS: A-50 was admitted.

5 MS. NICHOLSON: We don't have that.

6 MS. ROSE-JOHNSTON: My note reflects
7 for illustrative purposes only for A-50.

8 MS. NICHOLSON: We don't have that as
9 admitted.

10 MS. KINN: I believe that's correct.
11 I have that it was admitted at 2:03 p.m. on May 23rd,
12 during my direct examination of Ms. Joerger.

13 JUDGE FRANCKS: Okay. And I don't
14 have all my notes here, so I have a question about A-50.

15 So I'm going to look at that as soon as we're done
16 with the rest of this, and we'll resolve it.

17 Okay. May 23, you said?

18 MS. KINN: Yes.

19 JUDGE FRANCKS: All right. Moving on.

20 So let's do it this way: The next one I have
21 admitted is A-53 and then A-59.

22 MS. KINN: A-54 was admitted, Your
23 Honor.

24 JUDGE FRANCKS: Okay. And does
25 that --

1 MS. NICHOLSON: We agree.

2 MS. BARNEY: Yes.

3 JUDGE FRANCKS: Okay. A-54.

4 All right. The next one I have admitted is A-67.

5 MS. KINN: Your Honor, you said A-59
6 was admitted; right?

7 JUDGE FRANCKS: I did. Or at least I
8 meant to.

9 Okay. So A-68 is not admitted.

10 MS. KINN: I have A-68 admitted, Your
11 Honor.

12 MS. ROSE-JOHNSTON: I have originally
13 not admitted and then admitted.

14 MS. KINN: And also A-67 was admitted.

15 JUDGE FRANCKS: Right. I think that's
16 what I said.

17 Okay. Admitted, A-69 and 70.

18 71, 72, 73, 74, all admitted.

19 I don't have anything about 75.

20 Okay. And then A-76 is admitted.

21 And I don't have anything for 77, 78, 79, and 80.

22 MS. KINN: I have 77, 78, and 79 were
23 admitted over objections on yesterday.

24 JUDGE FRANCKS: That sounds familiar.
25 I think I wasn't up to date.

1 MS. BARNEY: And 80 is not admitted.

2 JUDGE FRANCKS: Right. 80 was not
3 admitted.

4 And then we have 81, which was also not admitted.
5 That was the one that I marked yesterday; right?

6 MS. KINN: Correct.

7 JUDGE FRANCKS: Okay.

8 MS. KINN: And also 82.

9 JUDGE FRANCKS: Oh, right.

10 MR. TEBBUTT: And if I just -- again,
11 just to clarify this record, when you say "not admitted,"
12 it was offered but not admitted?

13 JUDGE FRANCKS: Right.

14 MR. TEBBUTT: Okay.

15 JUDGE FRANCKS: Yeah. I don't say not
16 admitted unless somebody offers it.

17 Okay. So that -- so I just need to figure out A-50.
18 And, otherwise, we're good on those exhibits.

19 All right. Next let's do dairy federation. So I
20 feel like this is not up to date. All right. Let's skip
21 that for a minute.

22 Let's go to R. Okay. I have R-1 through R-9
23 admitted, but then I don't say anything about R-10.

24 What do we have?

25 MS. KINN: I show R-10 as being

1 admitted.

2 MS. NICHOLSON: I do as well.

3 JUDGE FRANCKS: Okay. So R-10, R-11

4 admitted.

5 R-12, admitted.

6 R-13?

7 MS. BARNEY: Nothing.

8 JUDGE FRANCKS: Nothing. Okay.

9 R-14, admitted.

10 R-15, 16, 17, and 18, all admitted.

11 MS. BARNEY: Correct.

12 JUDGE FRANCKS: Okay. What about

13 R-19? Not offered.

14 R-20, admitted.

15 And I don't have anything for R-21, 22, or 23.

16 Okay. Then we have R-24 admitted.

17 R-25, admitted.

18 R-26, admitted.

19 R-28, admitted, which was the new one which is the

20 previous version?

21 MS. BARNEY: Correct.

22 JUDGE FRANCKS: Okay. And that was

23 admitted. Okay. So that's good.

24 I do not have my up-to-date list on the dairy, so

25 I'm wondering if we can have dairy tell us what they

1 think were admitted, and everybody else check them.

2 MS. NICHOLSON: Sure.

3 JUDGE FRANCK: Okay.

4 MS. BARNEY: Are we still being
5 recorded?

6 JUDGE FRANCK: We shouldn't be
7 recorded.

8 MS. HOWARD: Okay.

9 JUDGE FRANCK: Should have been only
10 closing arguments.

11 MS. NICHOLSON: Okay. So we have
12 Exhibits I-1 through I-16 as admitted.

13 JUDGE FRANCK: Does everyone agree
14 with that?

15 MS. ROSE-JOHNSTON: I don't have any
16 notes reflecting I-12 being admitted.

17 MS. KINN: We don't either.

18 MS. NICHOLSON: That was part of Bill
19 Reck exhibits, and it was admitted.

20 JUDGE FRANCK: Okay. So was it part
21 of his deposition transcript?

22 MS. NICHOLSON: Yes.

23 MS. HOWARD: Yeah. And when we went
24 through all those exhibits, it was one of those.

25 JUDGE FRANCK: Okay. All right.

1 MS. NICHOLSON: I-17.
2 JUDGE FRANCK: So 1 through 16.
3 MS. NICHOLSON: 1 through 16.
4 I-17, I-18, and I-19 as admitted.
5 JUDGE FRANCK: Okay.
6 MS. NICHOLSON: I-37, I-38, I-39,
7 admitted.
8 JUDGE FRANCK: Okay. So we skipped
9 from 19 to 37?
10 MS. NICHOLSON: Yes.
11 JUDGE FRANCK: Okay. So 37. Keep
12 going.
13 MS. NICHOLSON: I-45, I-46, I-47,
14 I-48, I-49, I-50, and I-51 admitted.
15 MR. TEBBUTT: We don't have I-46
16 admitted.
17 MS. HOWARD: We did.
18 MS. ROSE-JOHNSTON: Ecology's notes
19 reflected admitted for I-46.
20 JUDGE FRANCK: Okay. So I'm sorry.
21 I'm losing track here.
22 MS. NICHOLSON: Do you want me to give
23 you the range again?
24 JUDGE FRANCK: Yes. Give me the
25 range.

1 MS. NICHOLSON: Okay. So I said the
2 range from I-45 through I-51 admitted.

3 JUDGE FRANCK: And before that, we
4 had 37?

5 MS. NICHOLSON: Oh, yeah. And before
6 that, we had 37 through 39.

7 JUDGE FRANCK: Okay. And then after
8 51?

9 MS. NICHOLSON: Okay. 55, 56, and
10 that was it.

11 JUDGE FRANCK: Okay.

12 MS. HOWARD: We had I-60, Your Honor,
13 was the findings of fact, conclusions of law which you
14 indicated you would take judicial notice of.

15 JUDGE FRANCK: Yeah. I don't think
16 we need that.

17 MS. HOWARD: Okay.

18 JUDGE FRANCK: We -- we definitely
19 know where it is.

20 Okay. So I'm going to go back and I'm going to find
21 my notes about A-50, and then I'm going to come back, so
22 give me five minutes.

23 MR. TEBBUTT: I don't think there's
24 disagreement that it's admitted for demonstrative
25 purposes only; right?

1 MS. HOWARD: No. That's not what our
2 notes are --

3 MS. BARNEY: That's what our notes
4 are.

5 MR. TEBBUTT: So no disagreement about
6 that, if that expedites that a little.

7 JUDGE FRANCK: Okay. Great. All
8 right. That is all I need.

9 Anything else? Thank you all. I appreciate the
10 long process that this has been. I appreciate everyone's
11 cooperation. We can go off the record.

12 (Proceedings concluded at
13 11:30 a.m.)

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C E R T I F I C A T E

I, ANDREA L. CLEVINGER, a Certified Court Reporter in and for the State of Washington, residing at Olympia, authorized to administer oaths and affirmations pursuant to RCW 5.28.010, do hereby certify;

That the foregoing proceedings were taken stenographically before me and thereafter reduced to a typed format under my direction; that the transcript is a full, true and complete transcript of said proceedings consisting of Pages 1513 through 1610;

That I am not a relative, employee, attorney or counsel of any party to this action, or relative or employee of any such attorney or counsel, and I am not financially interested in the said action or the outcome thereof;

That upon completion of signature, if required, the original transcript will be securely sealed and the same served upon the appropriate party.

IN WITNESS WHEREOF, I have hereunto set my hand this 27th day of June, 2018.

Andrea L. Clevinger
(Court Reporter, CCR No. 3041)

