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ALBUQUERQUE BERNALILLO COUNTY  
WATER UTILITY AUTHORITY  
WEDNESDAY, JUNE 20, 2012

ALBUQUERQUE BERNALILLO COUNTY GOVERNMENT CENTER  
ONE CIVIC PLAZA, NW  
ALBUQUERQUE, NM 87102

Before: Kelli A. Gallegos  
PAUL BACA PROFESSIONAL COURT REPORTERS  
500 Fourth Street, NW, Suite 105  
Albuquerque, New Mexico 87102

A P P E A R A N C E S

- COUNCILLOR KEN SANCHEZ, Chairman
- COMMISSIONER WAYNE A. JOHNSON, Vice Chairman
- MAYOR RICHARD BERRY, Member (Excused)
- COUNCILLOR REY GARDUNO, Member
- COMMISSIONER ART DE LA CRUZ, Member
- COUNCILLOR TRUDY E. JONES, Member
- COMMISSION MAGGIE HART STEBBINS, Member
- TRUSTEE PABLO RAEL, Ex-officio Member
- MR. ROB PERRY, Admin. Officer, Alternate Member

1           CHAIRMAN SANCHEZ: I will call the June 20, 2012  
2 meeting of the Albuquerque Bernalillo County Water  
3 Utility Authority to order. Let the record reflect  
4 that all members are present. Council President Jones  
5 will be a few minutes late.

6           We will begin with a silent invocation,  
7 followed by the Pledge of Allegiance, which will be  
8 lead by Trustee Rael.

9           (Whereupon, there was a moment of silence.)

10          (Whereupon, the Pledge of Allegiance was led  
11 by Trustee Pablo Rael.)

12          CHAIRMAN SANCHEZ: The next item on the agenda  
13 is the approval of the minutes. I make a motion to  
14 approve the May 23rd, 2012, minutes.

15          COMMISSIONER DE LA CRUZ: Second.

16          CHAIRMAN SANCHEZ: We have a motion, and a  
17 second by Commissioner De La Cruz.

18          Councillor Garduno.

19          COUNCILLOR GARDUNO: In reading through the  
20 minutes, I found that on Page 35, Line 6, there was a  
21 response by Executive Director Mark Sanchez to a  
22 question that was asked as to whether or not the water  
23 authority was doing anything, or something like that.  
24 And I think Mr. Sanchez thought that maybe I had asked  
25 that question. And in no way did I ask that question

1 and no way did I mean to impugn that the water  
2 authority has not done anything and would like to  
3 correct that. The report was correct; it's just the  
4 intent I think was wrong. And I certainly don't think  
5 that the water authority nor Mr. Sanchez has sat on  
6 his hands, and I wanted to correct that.

7 CHAIRMAN SANCHEZ: Okay. That has been -- the  
8 intent will be corrected in the motion. All those in  
9 favor, signify by saying yes.

10 ALL MEMBERS: Yes.

11 CHAIRMAN SANCHEZ: Opposed, no?

12 That carries unanimously.

13 (7-0 vote. Agenda Item 3 approved.)

14 CHAIRMAN SANCHEZ: We have no proclamations and  
15 awards this evening.

16 The next item on the agenda is public  
17 comment.

18 Ms. Jenkins, how many do we have signed up?

19 MS. JENKINS: We have 15.

20 CHAIRMAN SANCHEZ: Once your name has been  
21 called, you will be given two minutes. I shall call  
22 two names at a time. Once your name has been called,  
23 please come to the front and be prepared to speak.

24 Ms. Jenkins, would you please announce the  
25 first speaker.

1 MS. JENKINS: Max McCauley followed by Dwight  
2 Peterson (sic).

3 CHAIRMAN SANCHEZ: Mr. McCauley, welcome. Go  
4 ahead and proceed. Thank you.

5 MR. MCCAULEY: I just want to comment that I  
6 live out by the base and I've been a resident of a  
7 condo community there for about seven years now. It  
8 will be seven years after this coming 4th of July.

9 And I attended a couple meetings about this  
10 aviation fuel leak problem out there at the base. And  
11 one of the things than irritates me, as I do a morning  
12 walk, is the water waste that -- goes on in this town.  
13 There are lawns being watered -- as far as I'm  
14 concerned, I don't know understand why, since we live  
15 in a desert area, why we even have lawns. Green lawns  
16 are wasting our water. Because as the population of  
17 this area increases and the polluted water increases  
18 as well, you're going to run out of water for people  
19 to eat, drink and bake with.

20 So I'd like to see some kind of conservation  
21 measures enacted, where there's multi-family housing  
22 places and office parks and places like that that have  
23 green lawns, et cetera, are mandated to get rid of all  
24 of that and change over to ground cover that doesn't  
25 need any watering. I think over a period of time,

1 that's going to make a difference.

2 CHAIRMAN SANCHEZ: Thank you.

3 MS. JENKINS: Dwight Peterson (sic), followed by  
4 Willard Hunter.

5 CHAIRMAN SANCHEZ: Welcome, Mr. Peterson.

6 MR. PATTERSON: Thank you. That's good. I  
7 wanted to thank you for the opportunity to talk with  
8 you this evening, all the board members. And it's  
9 good to see Rey and Commissioner Stebbins here. We  
10 met briefly before.

11 My name is Dwight Patterson. I'm the  
12 president of Xitech Instruments, which is an  
13 environment manufacturing firm here in New Mexico.  
14 David McCoy of Citizen Action has asked me to come  
15 this evening in his stead because he was pulled out of  
16 town on family business. David has asked me to share  
17 with the board tonight three recent important  
18 developments regarding the Kirtland jet fuel spill.

19 The first development that I'll brief here  
20 has to do with a public meeting that occurred last  
21 week where the Air Force had a public meeting with  
22 regard to the jet fuel spill, and David had attended  
23 that. And the -- but he had just passed on to me an  
24 important piece of information he wanted me to share  
25 with you.

1           And that was that he had gotten up and asked  
2     the members of -- the people holding the meeting,  
3     which was the Air Force, if they believed that the EDB  
4     contamination plume would not or never impact the  
5     Ridgecrest wells. And the -- my understanding is that  
6     the impact would be, yes, it's going to impact the  
7     wells someday. It didn't talk about time.

8           The second one was was that David and I  
9     recently were contacted by CDC, which is the center  
10    for disease control prevention in Atlanta, to discuss  
11    and they were trying better understand what was going  
12    on with the spill.

13           The third development was in the Albuquerque  
14    Journal today, which talked about the idea of water  
15    containment.

16           And if I may just give this last point, and  
17    that was that they had talked about a possibility  
18    considering shutting down the Ridgecrest wells. What  
19    I'm asking you to consider is not to have that happen.  
20    We do not want the Ridgecrest wells shut down, because  
21    if we do shut them down --

22           CHAIRMAN SANCHEZ: Sir, thank you. You've used  
23    you extended time. Your time has expired.

24           MR. PATTERSON: Oh, okay. Thank you.

25           CHAIRMAN SANCHEZ: Thank you.

1 MS. JENKINS: Willard Hunter, followed by Janet  
2 Greenwald.

3 CHAIRMAN SANCHEZ: Welcome, Mr. Hunter.

4 MR. HUNTER: Okay, good.

5 Thank you. I wanted to show you this  
6 graphic to give you a little bit of an idea. Okay.  
7 The fuel spill 24 million gallons over roughly 40  
8 years is about 1640 gallons a day. That represents  
9 about one 29,000-gallon tank which this fuel would  
10 come in, roughly one every 18 days. The Air Force is  
11 talking about three forms of -- there's three areas of  
12 problems here. One is the vapor in the soil. The  
13 second is the liquid fuel on the top of the aquifer.  
14 The liquid fuel has kerosene, benzene, toluene,  
15 xylene, those kind of chemicals. The aquifer has  
16 ethylene dibromide and other additives from the fuel.

17 Right now the only thing that the Air Force  
18 is talking about in terms of remediation is soil vapor  
19 extraction. They have nothing serious about the  
20 liquid fuel and they have nothing serious proposed for  
21 the EDB. And this is just a serious problem. The Air  
22 Force talks about vapor -- soil vapor extraction and  
23 they've got to do more.

24 I mean, the Air Force says, "This is our  
25 problem." They say two things. One is "This is our

1 problem," and the second, "Trust us." They've said  
2 that for 15 years and they're still coming up with  
3 proposals. This body needs to do something.

4 Thank you.

5 CHAIRMAN SANCHEZ: Thank you.

6 MS. JENKINS: January Greenwald, followed by  
7 Judy Powell.

8 CHAIRMAN SANCHEZ: Again, once your name has  
9 been called, could you please come to the front and be  
10 prepared to speak.

11 MS. GREENWALD: Hi. I'm Janet Greenwald. I'm  
12 co-coordinator of citizens for alternatives to  
13 radioactive dumping, a member of AVAT and also a  
14 member of a group that was formed this year in  
15 Albuquerque called Our Endangered Aquifer Working  
16 Group. This group's focus is contamination from  
17 Kirtland Air Force Base and Sandia National  
18 Laboratories.

19 We believe that the nuclear age is fading  
20 into the age of water. And that water will become  
21 more preeminent in our thoughts and our actions. What  
22 we would like from this body is a very proactive  
23 attitude toward protecting the aquifer. We all know  
24 about the Kirtland spill, but there's also a spill  
25 from Tijeras Arroyo site at Sandia National Labs



1 that's only a quarter mile, full of carcinogens --  
2 that's only a quarter mile now from the Eubank well  
3 field. So our aquifer is really under siege.

4 And I just want to -- I know each person on  
5 this board is very conscientious. I want you each to  
6 think carefully about how you can protect this aquifer  
7 and the population. Throughout the United States now,  
8 community groups, city groups, county groups are a  
9 taking proactive stance as far as protecting water is  
10 concerned, because the EPA is behind in their regs.

11 Thank you very much our attention.

12 CHAIRMAN SANCHEZ: Thank you, Ms. Greenwald.

13 MS. JENKINS: Judy Powell, followed by John  
14 Holley.

15 MS. POWELL: Thank you so much for this  
16 opportunity and for your work. There's a new  
17 resolution by Rey Garduno for consideration that would  
18 -- in which this board would actively approach  
19 Kirtland Air Force and deal with them, because it's  
20 our city and it's our water. And I would like to say  
21 that actions speak louder than words.

22 Kirtland and to some extent Sandia have been  
23 talking since the last century and the actions haven't  
24 be there. Cleaning up fumes isn't getting to the  
25 point. And monitoring wells that are in the wrong

1 place isn't getting to the point.

2 So I would appreciate if you would defend us  
3 citizens and require the actions behind the words.

4 Thank you so much.

5 CHAIRMAN SANCHEZ: Thank you, Judy.

6 MS. JENKINS: John Holley followed by Tom  
7 Valdez.

8 MR. HOLLEY: Thank you very much for allowing me  
9 to make a couple of remarks. I'm John Holley. I'm an  
10 emeritus senior environmental geologist with the  
11 Office of State Geologist at New Mexico Tech, and I'm  
12 presently a senior hydrogeologist with the State Water  
13 Resources Research Institute, also a consulting  
14 geologist here.

15 This is not to point any fingers or  
16 anything. There is a very robust model of the aquifer  
17 system that was actually developed at the -- by the  
18 then water Albuquerque Public Works Department, Bob  
19 Gurule, Norm Cowan, John Stomp, through the years.  
20 And this is public a document available. It's been  
21 published since 1968. I personally was on site when  
22 Ridgecrest 5 was being drilled, were geologists John  
23 Schumacher & Associates, and when Kirtland Air Force  
24 Base 16 was being drilled.

25 And so there is a robust, like I say,

1 scientific model that in the plume activity as  
2 verified that model. And we're out there to offer  
3 public assistance pro bono if anybody ever asked for  
4 it.

5 CHAIRMAN SANCHEZ: Councillor Garduno.

6 Mr. Holley, Councillor Garduno would like to  
7 ask you a question.

8 COUNCILLOR GARDUNO: Mr. Holley, am I to  
9 understand that you think we have a good enough model  
10 that we can go off of without having to characterize  
11 and recharacterize the aquifer as it exists.

12 MR. HOLLEY: Basically yes.

13 COUNCILLOR GARDUNO: And so from that model --

14 MR. HOLLEY: But that doesn't mean we don't have  
15 to do a lot of work to characterize the actual area of  
16 the plume and that thing. Okay. Sorry.

17 COUNCILLOR GARDUNO: Well, that's all right.  
18 No. And I was just going to thank you for offering  
19 your services. I'm sure that there are many people  
20 who have different information, other information and  
21 we'd love to have your information. So if I could ask  
22 staff to contact you and if you would help us --

23 MR. HOLLEY: Well, this is -- I'm onboard with  
24 presently with John Stomp and his staff and with  
25 various private sectors, the ED, and they know where

1 the can find me.

2 COUNCILLOR GARDUNO: Wonderful. Thank you.

3 MR. HOLLEY: I live here, about two blocks north  
4 of your house.

5 CHAIRMAN SANCHEZ: Next speaker.

6 MS. JENKINS: Tom Valdez, followed by Reina  
7 Juarez.

8 CHAIRMAN SANCHEZ: Welcome, Mr. Valdez.

9 MR. VALDEZ: Thank you. Good evening,  
10 Commissioners. I live in the South San Pedro  
11 Neighborhood. I am a member of the South San Pedro  
12 Neighborhood Association. My concern, is the air  
13 force doing everything possible. In my opinion, no.  
14 The SVE, soil vapor extraction, is okay for the liquid  
15 plume, but the EDB is not a vapor or a liquid. Hoping  
16 some of it comes up with the vapor extraction is okay,  
17 but the risks that EDB can cause are greater.

18 The Air Force found this spill in 1997.  
19 Here we are 15 years later, still trying to fix this.  
20 In the SVE process, what is the time frame, 15, 25  
21 years from now to be complete?

22 My biggest concern is EDB, a carcinogen that  
23 can cause cancer when taken in higher level than the  
24 EPA standards. Other possibilities, cause liver,  
25 kidney, stomach damage, reproductive system damage,

1 can even cause death in higher concentrations.

2 The EPA standard for EDB is 0.00005  
3 milligrams per liter, almost zero. And I'll be  
4 quoting from the EPA website. EPA has set the level  
5 of protection based on the best available science to  
6 prevent potential health problems. The EPA has set an  
7 enforceable regulation for ethylene dibromide called a  
8 maximum contaminant level at what I just mentioned.

9 MCLs are set as close to the health goals as  
10 possible, considering cost benefits and the ability of  
11 public water systems to detect and remove contaminants  
12 using suitable treatment technologies.

13 EDB is released during the use, storage and  
14 transport of leaded gasoline. When soil and climate  
15 conditions are favorable, EDB may get into drinking  
16 water by runoff into surface water or by leaching into  
17 groundwater. When routine monitoring indicates that  
18 ethylene dibromide levels are above the MCL. Your  
19 supplier must take steps to reduce the amount of  
20 ethylene dibromide that is below the level.

21 CHAIRMAN SANCHEZ: Mr. Valdez, your time is  
22 expired. Thank you very much.

23 MR. VALDEZ: Okay. Thank you.

24 MS. JENKINS: Reina Juarez, followed by Marion  
25 Jordan.

1 MS. JUAREZ: Good evening. My name is Reina  
2 Juarez, and I am the president of South San Pedro  
3 Neighborhood Association. And forgive me, I get  
4 really nervous standing here talking to you guys. But  
5 I'm here, and I'm here because I had want to educate  
6 myself. I want to start doing what I have to do to  
7 educate myself and my community so that we can better  
8 advocate and help those of you who are trying to help  
9 deal with this problem.

10 Because I'm becoming more and more  
11 concerned. I go to the Kirtland meetings and I'm get  
12 increasingly worried about their attitude towards the  
13 problems that they've created. I hear -- like the  
14 last meeting that we went to, the main guy gets up and  
15 he says, "Well, I don't really care" -- you know, I  
16 care, I'm like dramatic, but, you know, we basically  
17 says, "I don't care how many gallons is down there."  
18 Because the question was asked, well, how much is  
19 there. Eightmillion to 24 million gallons; that's a  
20 huge disparity. And so he says, "Well, I don't really  
21 care. What I care is what's in there."

22 Well, to me, I'm not scientist, but  
23 logically, you know, 8 million gallons is going to  
24 contaminate a large area, but 24 million gallons, that  
25 extends the size of the plume. So it's seems to me

1 that they should care. You know, it's just logic.

2 And then one of the advisory board members  
3 at this other meeting, the citizen advisory board, the  
4 guy gets up and says, "Well, it's not that important  
5 to me because I'm going to be dead in a couple years."  
6 And it's like, you know what, what about the legacy  
7 that we're leaving to our children. The way I was  
8 raised, you're supposed to be concerned and the seven  
9 generations to come and what we're doing to our earth.

10 And so this nonchalant kind of attitude that  
11 I'm beginning to hear more and more is just very  
12 disturbing to me. And so I want to support -- I don't  
13 know if we're going to be around, but I want to  
14 support the resolution that Rey is putting forward.

15 And I want to ask also that you ask the  
16 Kirtland people to put monitoring wells closer to  
17 Ridgecrest well. They gave us -- they really didn't  
18 give us a reason why, they just said, "Oh, we're  
19 putting it here, and, you know, we're kind of chasing  
20 the plume to determine how far it extends."

21 So thank you.

22 CHAIRMAN SANCHEZ: Ms. Juarez, thank you for  
23 coming down, and you did well.

24 MS. JENKINS: Marion Jordan, followed Floy  
25 Baucet (sic).

1 MS. JORDAN: My name is Marion Jordan and I'm  
2 the president of Elder Homestead Neighborhood  
3 Association, and also the treasurer for District 6  
4 coalition.

5 I'm getting e-mails and phone calls every  
6 day from people that very worried, very concerned  
7 about the fuel spill. And we go to the meetings and  
8 we hear the same thing over and over, and usually,  
9 it's in technical terms. We'd like to have something  
10 that we can understand, that we -- so we'll know  
11 what's being done and when it's going to be done.

12 And I also would like to commend Rey Garduno  
13 for his work.

14 CHAIRMAN SANCHEZ: Thank you, Ms. Jordan.

15 Next speaker.

16 MS. JENKINS: Floy Baucet, followed by Leslie  
17 Weinstock.

18 Last name is Baucet, B-a-u-c-e-t (sic).

19 CHAIRMAN SANCHEZ: Next speaker.

20 MS. JENKINS: Leslie Weinstock, followed by  
21 Elaine Hebbard.

22 MS. WEINSTOCK: Hi. My name is Leslie  
23 Weinstock. I'm the coordinator of Aqua es Vida Action  
24 Team, and I'm like to ditto what Janet Greenwald said,  
25 and several other speakers, and support Councillor



1 Garduno's resolution and ask you and urge you to be  
2 more proactive, not only about the jet fuel spill but  
3 for the Sandia contamination plumes.

4 And also to bring up another issue that  
5 hasn't been brought up yet tonight, the aquifer  
6 storage and recovery project. And there are questions  
7 about the cost benefit, and since the water authority  
8 is great debt right now and they are critical  
9 infrastructure repairs that are needed, I would like  
10 to ask you to reconsider this project and put the  
11 money towards the critical infrastructure repairs.  
12 And perhaps this project is not as significant and  
13 maybe even frivolous compared to the critical  
14 infrastructure repairs.

15 There's also the issue of potential  
16 contamination of the aquifer by injecting treated  
17 river water in to the aquifer, since there are many  
18 outdated standards and less than 1 percent of the  
19 industrial chemicals are regulated by the EPA. So I  
20 just wanted to add that issue and reiterate what other  
21 speakers have said, to ask you to be proactive to  
22 protect our aquifer and to add the Sandia  
23 contamination plumes to the jet fuel spill for  
24 consideration and proactive work.

25 CHAIRMAN SANCHEZ: Thanks, Leslie.

1           Next speaker.

2           MS. JENKINS: Elaine Hebbard followed by Floy  
3 Barrett.

4           MS. HEBBARD: Good evening. My name is Elaine  
5 Hebbard. I have three comments. One is with regard  
6 to the rate increases on the agenda tonight. My fear  
7 is that they may not be enough. They only deal with  
8 closing the annual gap between the renewal spending  
9 and the infrastructure needs, and that gap right now  
10 is 35 million. So every year, in 3 million increments  
11 out to 2026, that will be closed. That doesn't deal  
12 with the current infrastructure backlog of 355  
13 million. What happens when more bonds are perhaps  
14 needed to be purchased in 2020, 2021. As the budget  
15 says, they are not on that slide that you will be  
16 presented later.

17           What about if water conservation reduces  
18 revenues substantially? What about climate variation  
19 and how is that going to be built into the budget? So  
20 I'm afraid that you might be revisiting this issue  
21 faster than you might otherwise think to be.

22           My second comment is regarding the computer  
23 version of the water budget, and I would requests that  
24 it be placed on the website, along with current and  
25 updated data for water quantity and water quality.

1 Policy M of the water resources management strategy  
2 says that: An informed public contributes to the  
3 successful implementation of water resources  
4 management solution. Is it the public that defines  
5 the values of the region upon which the policies are  
6 based.

7 So such a water budget could be used to help  
8 track the plumes and help people understand what's  
9 happening. It could be used for water conservation  
10 reductions and seeing how those might be implemented.  
11 It might be used for rate increases.

12 My third -- and also for looking at climate  
13 variation, my third one, very quickly, is that I would  
14 ask that the water utility have some sort of mechanism  
15 to get involved when actions such as paving over  
16 public lands or currently farmlands. And I'm thinking  
17 right now of a -- that's it, isn't it?

18 CHAIRMAN SANCHEZ: That's it, Elaine. Thank you  
19 very much.

20 MS. JENKINS: Floy Barrett.

21 CHAIRMAN SANCHEZ: Welcome, Ms. Barrett.

22 MS. BARRETT: My name is Floy Barrett and I just  
23 want to support Rey Garduno's opposition to take care  
24 of our water. Thank you.

25 CHAIRMAN SANCHEZ: Thank you very much. I've

1 got one individual that his hand up. Go ahead and  
2 come to the podium and state your name for the record,  
3 please. Welcome.

4 MR. CARTER: My name a Roland Carter. I'm  
5 retired Air Force. And I came here to Kirtland in  
6 1954. I retired from the Air Force. And then retired  
7 in '73 from the Air Force, and I keep hearing all this  
8 talk about all this contamination since 1950. And I  
9 was stationed here till 1972, when I retired from  
10 Civil Service, and right here at Kirtland, same spot.

11 We never had no contamination till now, and  
12 I never -- I got interested till somebody said that  
13 Kirtland was at fault for all this contamination. And  
14 I'd like to get into some of these meeting when they  
15 go to the storage section and when they restore that  
16 deal where the deal was broken, the lines were broken.  
17 We didn't have none of that here since -- in 1973 when  
18 I retired. Those weren't broken. I was here.

19 And I'd like to hear more information, get  
20 involved in it, now that we can. And that water  
21 that's contaminated and all that, like she said about  
22 cement, they won't be able to cement that till it's  
23 cleared, period, everything cleared out before they do  
24 anything to the water.

25 CHAIRMAN SANCHEZ: Well, thank you for coming

1 down, Mr. Carter, and for your service to this  
2 country. Appreciate your time.

3 That concludes our public comments. We will  
4 be move on to announcements and communications. The  
5 next scheduled meeting is August 22nd of 2012 at 5:00  
6 p.m. in the Vincent E. Griego Chambers.

7 The next item on the agenda is  
8 introductions. And it's the first read of  
9 legislation. It's WUR-12-13, authorizing and  
10 agreement with the Kirtland Air Force Base for water  
11 protection.

12 And, Commissioner De La Cruz.

13 COMMISSIONER DE LA CRUZ: Thank you, Mr.  
14 Chairman. I will first read the resolution for  
15 introduction -- introduction of the resolution, and  
16 then I will follow with come comments that I'd like to  
17 make in relation to why I think this particular  
18 resolution is important.

19 This resolution authorizing an agreement  
20 with the Kirtland Air Force Base for contingency plan  
21 coordination.

22 Whereas, the Albuquerque Bernalillo County  
23 Water Utility Authority was established to provide  
24 safe and sustainable water supply for the Albuquerque  
25 metropolitan area; and

1           Whereas, the water authority has worked  
2 diligently to conserve water usage and invested more  
3 than 500 million in the drinking water project to  
4 preserve and protect the aquifer and the regional  
5 water supply; and

6           Whereas, the Kirtland Air Force Base, KAFB,  
7 jet fuel plum represents a significant threat and may  
8 be the largest plume of this type in the history of  
9 the United States; and

10           Whereas, the jet fuel plume has and  
11 continues to migrate from the source towards existing  
12 water supply wells; and

13           Whereas, KAFB and water authority must  
14 cooperate to protect the water supply in conjunction  
15 with the New Mexico Environment Department; and

16           Whereas, KAFB is investigating and actively  
17 remediating a fuel spill originating from the base's  
18 former bulk fuel facility, which has entered the  
19 subsurface soil and aquifer below both the base and  
20 the City of Albuquerque; and

21           Whereas, the water authority has two  
22 drinking water production well fields within a mile of  
23 the currently known extent of the fuel plume; and

24           Whereas, the water authority, KAFB and the  
25 New Mexico Environment Department have been working

1 cooperatively and productively towards ensuring that  
2 the drinking water supply for the City of Albuquerque  
3 and Bernalillo County is safe for consumption; and

4           Whereas, the U.S. Air Force has pledged to  
5 fund contingency projects in the event a water well or  
6 wells are impacted by the fuel plume; and

7           Whereas, a water authority and KAFB have  
8 executed an existing memorandum of agreement providing  
9 the water authority the provision to receive  
10 reimbursements for costs related to additional well  
11 sampling, related to the KAFB bulk fuel facility  
12 spill.

13           Be it resolved by the water authority,  
14 Section 1, water authority will revise the memorandum  
15 of agreement with KAFB to include activities related  
16 to monitoring, contingency planning and implementation  
17 in the event that a water authority production well or  
18 wells are affected by the KAFB bulk fuel facility  
19 spill.

20           Section 2, water authority will work with  
21 KAFB on the placement of additional monitoring wells  
22 to assist with the protection of the dissolve phase  
23 plume towards the water utility's Ridgecrest well  
24 field.

25           Section 3, water authority will determine

1 the cost of wellhead treatment, well replacement and  
2 related infrastructure costs to be considered in the  
3 contingency and implementation plan.

4 Section 4, the executive director is  
5 authorized to revise the existing agreement with KAFB  
6 to provide funding by KAFB for costs related to  
7 contingency planning and implementation costs.

8 Mr. Chairman, this resolution I think is  
9 important for the reasons that are self-evident in the  
10 resolution itself, but I'd like to add and clarify  
11 that the mixed aviation gas and jet fuel spill at the  
12 Kirtland Air Force Base may be the largest spill in  
13 the country and it endangers the water supply in the  
14 region.

15 No contamination from the spill, including  
16 EDB, has been detected in any of the Ridgecrest wells  
17 to date. We need to work with KAFB and continue to  
18 monitor the situation. Water authority and Kirtland  
19 Air Force Base personnel have begun to work on  
20 individual contingency plans in the event a drinking  
21 water production well or wells are wells have  
22 contamination, and, in the alternative water supply  
23 has to be provided.

24 Kirtland Air Force Base has taken  
25 responsibility for the spill, appropriated \$50 million



1 to investigate and install a final cleanup system at  
2 the site, and ahs also pledged to fund the water  
3 authority's alternate water supply and event, as well  
4 as -- in the event the well is contaminated.

5 Contingency planning efforts between the  
6 water authority and the Kirtland Air Force Base need  
7 to be coordinated, and the roles and costs of the plan  
8 implementation need to be determined and assigned to  
9 Kirtland Air Force Base now. This resolution allows  
10 the water authority to amend an existing memorandum of  
11 agreement with Kirtland to cover the costs of  
12 contingency planning before it becomes an emergency  
13 situation and funding for the implementation at the  
14 time of need.

15 The point of this resolution is for the  
16 water authority to step up the contingency planning  
17 efforts and for KAFB to reimburse them for that work,  
18 because the rate payers should not be financially or  
19 otherwise burdened with the remediation effort.

20 Thank you, Mr. Chairman.

21 CHAIRMAN SANCHEZ: Thank you.

22 Are there any questions for Commissioner De  
23 La Cruz.

24 Councillor Garduno.

25 COUNCILLOR GARDUNO: Thank you, Mr. Chair. And

1 I guess this would go to Commissioner De La Cruz, but  
2 also to staff.

3 There are probably was an opportunity to  
4 look at both of these resolutions that have been moved  
5 forward both by Mr. De La Cruz and myself.

6 And I was wondering -- Mr. De La Cruz, I had  
7 not seen this resolution till just now, or with the  
8 packet. And I don't want to get into a dueling, you  
9 know, resolutions here. I want to get to the point  
10 where we get some work done. A lot of what was said  
11 in this was, I think, to the point that I want to  
12 make. The only problem I have that this a memorandum  
13 of -- MOU of understanding and it's not -- doesn't  
14 have, I don't think, the force that a resolution  
15 asking Kirtland Air Force Base to move forward and not  
16 put any limitation on the amount of money that would  
17 be expended, or that there would be any wells that are  
18 not identified as specific to what needs to be  
19 remediated, and that we make sure that we protect the  
20 water before we get back to the staff deciding whether  
21 or not that's happened.

22 So when I have the opportunity to read my  
23 resolution, I would like to have the board look at  
24 this and make sure that we understand what each one of  
25 the resolutions is trying to accomplish.

1           CHAIRMAN SANCHEZ: And, Councillor Garduno,  
2 these both bills are just for introduction tonight, so  
3 go ahead and proceed with your bill, WUA R-12-14.

4           COUNCILLOR GARDUNO: Thank you, Mr. Chair.

5           This resolution directs the water authority  
6 staff to immediately enter into negotiations with  
7 Kirtland Air Force Base for an agreement that will  
8 save Albuquerque's drinking water.

9           That's main thing.

10          The agreement shall include requirements for  
11 Kirtland Air Force Base to place groundwater  
12 monitoring equipment as close as possible to the  
13 Ridgcrest municipal wells. The agreement should  
14 include the requirement for Kirtland Air Force Base to  
15 begin the investigation for technologies and  
16 installation of water treatment facilities for the  
17 wells, including financial assurance and to halt the  
18 further movement of the liquid -- LNAPL -- or liquid  
19 jet fuel and to plan for and implement remediation  
20 technology to address the long term contamination or  
21 soils and aquifer.

22          I would hope that everybody has a copy of  
23 this. I don't know that it's to the best interest of  
24 everyone for me to sit here and read the whole thing,  
25 but I will if people need me to.

1           And resolution just states: Protecting  
2 Albuquerque's Drinking Water.

3           Whereas, Albuquerque has the largest  
4 underground contamination threatening any city's  
5 drinking water aquifer in the history of the U.S., now  
6 estimated at 24 million gallons, more than twice the  
7 Exxon Valdez spill; and

8           Whereas, Kirtland Air Force Base, New  
9 Mexico Environmental Department and other experts do  
10 not deny that a dissolve plume of the toxic chemical  
11 contamination from ethylene dibromide, EDB, may arrive  
12 at the Albuquerque Bernalillo County water utility  
13 Authority 5 -- Ridgecrest Well Number 5 within five  
14 years.

15           And that's been discussed in many venues.

16           And, whereas, the agency for toxic substance  
17 and disease registry characterizes ethylene dibromide  
18 broken down in groundwater as hardly at all; and

19           Whereas, a liquid plume of jet fuel, LNAPL,  
20 containing benzine tolulene, ethyl benzine, xylene and  
21 other toxic components is dissolving into groundwater  
22 and extends to a mile long and a half mile wide.

23           That is, completely under the three  
24 neighborhood associations that have been here to  
25 testify.

1           Whereas, a liquid plume of jet fuel  
2     containing benzine, toluene; and

3           Whereas, soil vapor extraction technology  
4     cannot remove the LNAPL to keep it from moving  
5     forward, again, towards the municipal drinking waters  
6     wells;

7           Whereas, although the Air Force recognized  
8     the spill in 1997, there is still only poor  
9     understanding of the size, depth and rate of the  
10    expansion of the plume and contamination;

11          Whereas, there is no approved containment  
12    plan, no remediation plan or ongoing effort to remove  
13    the liquid portion of the jet and the dissolve plume  
14    of EDB from Albuquerque's drinking water aquifer;

15          Whereas, the full size of the dissolved EDB  
16    plume is unknown, and there are no monitoring wells  
17    close to the city wells; and

18          Whereas, the City of Albuquerque and the  
19    County of Bernalillo through its water authority is  
20    the only government entity that can demand that the  
21    air force take action to implement treatment  
22    technology to save the city's highly productive  
23    Ridgecrest and other drinking water wells from the  
24    dissolved EDB plume.

25          Be it resolved by the water authority,

1 Section 1, that in order to protect the public health  
2 and environment the City of Albuquerque and Bernalillo  
3 County, through its water utility authority act  
4 immediately to enter into negotiations with the Air  
5 Force for emergency measures, A, to save Albuquerque's  
6 drinking water source; B, to place groundwater  
7 monitoring as close as possible to the Ridgecrest  
8 municipal wells; C, to begin the investigation for  
9 technologies and installation of water treatment  
10 facilities for the wells, including financial  
11 assurance, more than the 50 million that has been  
12 touted; D, to halt the further movement of the liquid  
13 NAPL jet fuel; and E, to plan for the implementation  
14 remediation technology to address the long term  
15 contamination of soils in the aquifer.

16 That is the resolution. Thank you, Mr.  
17 Chair.

18 CHAIRMAN SANCHEZ: Thank you. And I think that  
19 Commissioner Maggie Hart Stebbins has a question.

20 COMMISSIONER HART STEBBINS: And I just want to  
21 start by saying I think the intent of both of these is  
22 very good. I support them both.

23 I have a first about and first one, though.  
24 On the first page, Line 17, it refers to active  
25 remediation. To what does that refer? Is there

1 active remediation under way right now?

2 CHAIRMAN SANCHEZ: Commissioner De La Cruz.

3 COMMISSIONER DE LA CRUZ: Well, what we're  
4 talking about isn't actually the remediation in the  
5 sense that there's extraction of the fuel, but that --  
6 the understanding of what's happening in the  
7 subsurface is occurring actively now.

8 COMMISSIONER HART STEBBINS: Thank you. That  
9 answers my question.

10 CHAIRMAN SANCHEZ: Commissioner Johnson.

11 COMMISSIONER JOHNSON: Thank you, Mr. Chair.

12 I believe, and we have some folks from the  
13 Air Force here as well, and either that or water  
14 authority staff, I believe they're undertaking soil  
15 vapor extraction at this point, so that is a form of  
16 remediation. Even if it's not the solids and the  
17 liquids, it is a form of remediation that the Air  
18 Force has been engaged in for some time, I believe.

19 And there was a gap earlier this year that I  
20 understand took place, but they have since begun  
21 removing the vapors again. Thank you.

22 CHAIRMAN SANCHEZ: Councillor Garduno.

23 COUNCILLOR GARDUNO: Thank you, Mr. Chair. And,  
24 again, at the risk of sounding like we're having  
25 dueling resolution, I think the intent, and I'm sure

1 it's true of Commissioner De La Cruz, is that we move  
2 forward and forward as quickly as possible.

3           The concern I have is that the vapor soil  
4 extraction method has proven not to be very effective  
5 from the viewpoint of especially now that we are  
6 talking about 24 million gallons. And the numbers,  
7 are not mine, these are numbers that have been moved  
8 forward by Kirtland Air Force Base, is in the half a  
9 million gallons per year. That will be 48 years  
10 before anything gets done, even if that were the only  
11 way that that could be remediated. And it's not.

12           Not all of the contaminants will vaporize,  
13 will become a vapor source, and a lot of these things  
14 are moving in a way that I think will contaminate, by  
15 the estimation, again, of some of the folks that have  
16 been looking at this, in five years. We don't have  
17 that kind of time.

18           And I think what this -- my resolution was  
19 asking for is that we look at every possible, bar any  
20 kind of cost, any possible remediation that is out  
21 there or by someone else. And I think there are some  
22 folks who are ready to talk about that. Mr.  
23 Patterson, I believe -- Mr. Peterson, rather, and Mr.  
24 -- I can't remember the other gentleman, but there are  
25 plenty of folks around that I think are able to do



1 that kind of work, and I would like to encourage us to  
2 move forward as quickly as possible.

3 CHAIRMAN SANCHEZ: Thank you, Councillor  
4 Garduno.

5 Commissioner De La Cruz.

6 COMMISSIONER DE LA CRUZ: Thank you, Mr.  
7 Chairman. One of the areas that needs to be explored  
8 I think a little more vigorously, and neither of the  
9 resolutions really addresses it, and I appreciate that  
10 some of our federal delegation or Congressmen and  
11 Senators have visited the site and are aware of what's  
12 going on, but I really think it needs to be done more  
13 aggressively at our level to ensure that at a variety  
14 of levels, at the federal level, that there's  
15 awareness and that the appropriate appropriations  
16 start to occur.

17 Because the base has finite resources. It  
18 isn't that different from ourselves in the sense that  
19 it only has that capital to work with that it's  
20 allocated. But if we can get greater attention in  
21 Washington, I think that's going to be really where  
22 it's going to take place. Because we don't have the  
23 resources, obviously, the base, by itself, doesn't  
24 have any resources, and so it's really going to have  
25 to come from that higher federal level. And I think

1 we need to start heading in that direction, Mr.

2 Chairman. Thank you.

3 CHAIRMAN SANCHEZ: Thank you. And, myself, I  
4 support both resolutions. I think that both  
5 resolutions have some great merits in them. And I'm  
6 not sure if the two sponsors want to get together and  
7 come up with one resolution in working together. We  
8 have until August to this get done, so I would suggest  
9 that if you want to maybe get together and try to get  
10 that --

11 COUNCILLOR GARDUNO: Mr. Chair, I would be  
12 amenable to that. Not only that, but I would take to  
13 heart what Commissioner De La Cruz has just mentioned  
14 and not only take it to a federal level -- because  
15 they have in fact intimated that they would help or  
16 they would at least -- and are aware. They have  
17 written letters to the issue, and that we get more  
18 funding. And I think we can't say that the Air Force  
19 can't expend money for this, because -- and I don't  
20 know the numbers exactly, but I'm sure that a jet  
21 fighter is a lot more than \$50 million. So I know  
22 that there's resources somewhere. So I would like to  
23 be able to at least mention that in our resolution.

24 CHAIRMAN SANCHEZ: Thank you.

25 Let's go ahead and proceed. There are

1 consent agenda items this evening.

2           The next item on the approvals is approvals.  
3 That is Item A, WUA -- floor substitute O-12-1,  
4 amending the Albuquerque Bernalillo County Water  
5 Utility Authority water and sewer rate ordinance to to  
6 add a 5 percent rate adjustment for FY16 and '18,  
7 establish irrigation budget surcharges consistent with  
8 other accounts, establish consistency in the  
9 procedures for establishing irrigation budgets,  
10 changing definitions, add the utility expansion charge  
11 and water supply charges by Engineering News Report  
12 Index and clerical updates.

13           And to make that presentation will be  
14 Mr. Sanchez.

15           MR. SANCHEZ: Thank you, Mr. Chairman, Members  
16 of the Authority. This is the second reading. I went  
17 through this presentation at your last meet. I'll try  
18 to brief and answer any questions.

19           Very quickly, as you mentioned, it is  
20 proposed for 5 percent rate adjustment in fiscal year  
21 '16 and fiscal year '18, incrementally to increase  
22 capital spending by \$3 million annually, upgrade our  
23 reclamation facility and achieve our fund balance of  
24 one-twelfth of budgeted expenditures.

25           It also adjusts our utility expansion charge

1 by the Engineering News Report Index by 2.7 percent  
2 that's currently required by the ordinance.

3 It also reconciles the irrigation budget  
4 surcharges and procedures that occur in policy. There  
5 were some inconsistencies. As I mentioned at the last  
6 meeting, what it's really driving is the understanding  
7 and the dialogue with the city, the county and APS  
8 about large turf areas and irrigation budgets attached  
9 to those, to the point where we aggregate those and  
10 focus less on collecting surcharges and focus more on  
11 having them reinvest on upgrading the infrastructure  
12 to use water wisely and conserve.

13 It also adjusts dates and definitions. And  
14 the floor substitute simply represents additional  
15 clerical errors that were not caught previously.  
16 There are no substantive change in the floor  
17 substitute.

18 Specifically what's driving the need for  
19 these out-year rate adjustments, if we look at our  
20 current finance plan that was presented during the  
21 budget process, our goal and our target to get to  
22 one-twelfth reserves, you can tell the bottom line  
23 resources over expenditures, the yellow starts to show  
24 we're dipping far below the one-twelfth.

25 Additionally, Dave Price, in a previous

1 meeting, talked about our asset management plan, where  
2 over a two-year period we literally touched and  
3 evaluated over 200,000 assets that we own and operate.  
4 And what we found as we costed out there was there's  
5 \$355 million of backlog, literally of infrastructure  
6 that either needs to be rehabbed or replaced,  
7 including our reclamation facility.

8           So if we go on the path we're on, the  
9 backlog continues well beyond 2032. With the rate  
10 adjustments in 2016 and 2018, we're able to begin  
11 incrementally investing \$3 million a year in our  
12 capital program, get a reclamation facility ramped up  
13 sooner, and get our one-twelfth reserve where it needs  
14 to be.

15           Our backlog starts to look like this graph.  
16 What it's tells us is, with that investment plan, by  
17 2027, which is 15 years away, our backlog has  
18 disappeared, and going forward, we're able to maintain  
19 a spending level of \$76 million a year adjusted for  
20 inflation going forward, which will help us remain  
21 current.

22           Elaine Hebbard earlier mentioned that may  
23 not be enough, what if we have to borrow more. In  
24 fact, our projection is we do not, because of this  
25 graph. Our debt service is declining substantially,

1 and it's declining at about that same time. Around  
2 2027 and the out years, you can see that chart, and  
3 our debt literally is going down substantially to the  
4 point where I feel comfortable standing before you  
5 saying we feel very confident that after 2018, four or  
6 five years out, we'd don't see a need for a rate  
7 adjustment. And our finance plan does factor in  
8 nominal growth, 2 percent increase in expenses, mainly  
9 power and chemicals, and resources going up roughly  
10 about a half a percent. And conservation is built  
11 into that forecast.

12 Dave Price also mentioned in a previous  
13 presentation, if you look at all of our assets,  
14 they're valued at about \$5 million, if we had to  
15 replace them today, and that does not include water  
16 rights. You'd have to add about another billion and a  
17 half to that asset figure.

18 If you look at how our rate adjustments have  
19 compared to peers across the country in  
20 water/wastewater utilities, there's been about an 80  
21 percent increase in rates over the last 12 years. Our  
22 rates have gone up just about under 20 percent, so  
23 we're about one-fourth of the trend across the  
24 country.

25 In terms of how we compare for a low water

1 user, we're about in the middle. Santa Fe, Rio  
2 Rancho, and Colorado Springs are above us, Santa Fe  
3 being the highest and about just shy of \$80. And El  
4 Paso, Denver and Phoenix are below us.

5 If you go to a higher water user, we're  
6 about in the same thing; it just changes who is above  
7 us and who's below. Santa Fe is far above. Colorado  
8 Springs comes in second; Rio Rancho, third, and the  
9 order of Phoenix, Denver and El Paso switches as well.

10 In terms of the average impact to customers,  
11 we're currently at about \$45 for the average customer  
12 exclusive of solid waste charges. So that \$45 would  
13 go to about \$48 in 2014. With the proposal before  
14 you, in 2016 that \$48 would go to 51. And in 2018,  
15 the 51 would go to 54. And we feel very strongly that  
16 that we can sustain that for at least four to five  
17 years beyond 2018.

18 At this point, I'd be happy to answer any  
19 questions.

20 CHAIRMAN SANCHEZ: Let's go ahead and move the  
21 bill. I will move WUA floor substitute 0-12-1.

22 COMMISSIONER HART STEBBINS: Second.

23 CHAIRMAN SANCHEZ: We have a motion and  
24 three seconds. And let's open it up for discussion.  
25 Any questions for Mr. Sanchez?

1 COUNCILLOR GARDUNO: I have.

2 CHAIRMAN SANCHEZ: Councillor Garduno.

3 COUNCILLOR GARDUNO: One quick question. How  
4 are we looking at expansion? I know that there's been  
5 some folks that have come to us, the city council, for  
6 sure, and asked for special assessment districts,  
7 other areas that would like to grow. How are they  
8 factored in or can you even factor those things in, and  
9 how are we going to be able to afford a resource that  
10 has, you know, finiteness to it? How do we tell these  
11 folks, "Go ahead, just apply, and we'll go ahead on  
12 okay"?

13 MR. SANCHEZ: Mr. Chairman, Councillor Garduno,  
14 first, the policy that is adopted by this body with  
15 regard to growth is, if you are expanding outside of  
16 what we would consider the fully built area, the  
17 developer must pay 100 percent of all the  
18 infrastructure, any upgrades to our infrastructure  
19 required to serve it, and a water supply charge. So  
20 there is no subsidy built into the system.

21 In terms of water consumption, if that's  
22 your point, ironically and historically, we consume  
23 less water today than we did 20 years ago with a  
24 30 percent growth in our customer base. So with  
25 conservation, our consumption is actually going down.



1           COUNCILLOR GARDUNO: Mr. Chair, if I may.  
2           Mr. Sanchez, but we all know that  
3           conservation will take us to a place but will not  
4           answer all the questions that are coming up, such as,  
5           if we let our service area grow, we will exponentially  
6           start using more water, never mind the fact that  
7           people are being conscientious about conservation.  
8           When we have drought and we have to keep our trees  
9           alive, there's no way you can conserve to the level  
10          that if we had good rain or more of a moist climate.

11           So I'm concerned that we're not looking at  
12          those areas we're not tying land and water in a zoning  
13          sense, and we're going to find ourselves in real, real  
14          trouble real soon.

15           MR. SANCHEZ: Mr. Chairman, Councillor Garduno,  
16          the other policy I failed to mention is that growth is  
17          restricted to the consumption of 180 gallons per day  
18          per household, which is almost half of our target of  
19          150 per capita per day. And any subdivision, any  
20          residential development outside our service area must  
21          be certified to meet that standard by an engineer or  
22          someone with some certification, and we review those  
23          conservation plans. So that further guarantees a  
24          significantly reduced consumption.

25           Now, 50, a hundred years down the road,

1 climate change, droughts, certainly those are causes  
2 for concerns. And we are planning around that.  
3 Ms. Hebbard has talked exclusively about a water  
4 budget and a model; we're developing that. One of the  
5 reasons we talk about aquifer storage and recovery is,  
6 we should not send water down to Elephant Butte and  
7 let it evaporate. There's a much more efficient way  
8 of storing that water.

9 So we're looking at all those eventualities  
10 and trying to optimize any source we have access to.

11 COUNCILLOR GARDUNO: And, Mr. Chair.

12 Mr. Sanchez, climate change was not even a  
13 discussion five, seven years ago, yet today, although  
14 there's folks that agree and disagree, there's  
15 certainly a science that tells us that climate change  
16 is a reality and it's something that we're going to  
17 have to deal with. That, exponentially, will change  
18 things just by, as you described, as we grow, we  
19 are -- as someone said one time, humans are an  
20 invasive species, you know. We take over places that  
21 we don't belong in, and that's one thing that we've  
22 failed to factor into this whole system. So I'm  
23 concerned, I really am.

24 Thank you, Mr. Chair.

25 Thank you, Mr. Sanchez.

1 CHAIRMAN SANCHEZ: Thank you.

2 Any other questions?

3 I have one statement. Mr. Sanchez, there  
4 will not be a rate increase, and we've got to let the  
5 public know that, because people are in a panic that  
6 there's going to be another increase today. It's not  
7 going to be until 2014, and then 2016 with this new  
8 ordinance, then 2018; is that correct?

9 MR. SANCHEZ: Mr. Chairman, that's correct,  
10 however, that's fiscal year. So 2014 would actually  
11 be July of 2013, fiscal years '16 would be July  
12 of 2015, and fiscal year '18 would be July of 2017,  
13 but these rate increases would not take effect until  
14 that time.

15 CHAIRMAN SANCHEZ: Commissioner Johnson.

16 COMMISSIONER JOHNSON: Thank you.

17 Mr. Sanchez, you 2014 -- or 2013 for FY  
18 2014? We're only making changes to the FY 2016 and  
19 2018?

20 MR. SANCHEZ: That is correct.

21 COMMISSIONER JOHNSON: Okay. I thought I  
22 misunderstood you for a moment.

23 MR. SANCHEZ: But I should point out that the  
24 board has preapproved a rate judgment for 2014.

25 COMMISSIONER JOHNSON: Okay. Thank you very

1 much.

2 CHAIRMAN SANCHEZ: Any other questions?

3 We have a motion and a second on the floor  
4 to adopt WUA floor substitute O-12-1.

5 All those in favor, signify by saying yes.

6 SIX MEMBERS: Yes.

7 CHAIRMAN SANCHEZ: Opposed, no?

8 ONE MEMBER: No.

9 CHAIRMAN SANCHEZ: That passes on -- raise your  
10 hands. All those in favor, say yes.

11 SIX MEMBERS: Yes.

12 CHAIRMAN SANCHEZ: Passes on a 6-to-1 vote.

13 (6-1 vote. Agenda Item 9A approved, as  
14 amended, with Commissioner Johnson voting  
15 no.)

16 MR. SANCHEZ: Okay. Let's move on to the next  
17 bill. It's Item B, WUA C-12-9. That approving  
18 recommendation of award, water resources education,  
19 River Day programs, classroom presentation and public  
20 events.

21 I move a do pass.

22 COMMISSIONER DE LA CRUZ: Second.

23 CHAIRMAN SANCHEZ: We have a motion and a  
24 second.

25 To make that presentation will be Sharon

1 Sivinski.

2 MS. SIVINSKI: Thank you. I'm requesting that  
3 we continue providing education for the K through 12  
4 students in Albuquerque. The four-year contractor  
5 will provide in-class water resource education for  
6 approximately 600 K through 12 classrooms and full day  
7 field trips to the Rio Grande Nature Center and the  
8 Rio Grande for approximately 60 classes of fourth  
9 graders.

10 The fiscal impact would be 147,180, which is  
11 what we have been spending for the last your years.

12 CHAIRMAN SANCHEZ: Are there any questions?

13 Seeing none, we have a motion and a second  
14 on the floor. All those in favor, signify by saying  
15 yes.

16 ALL MEMBERS: Yes.

17 CHAIRMAN SANCHEZ: Opposed, no.

18 That carries unanimously.

19 (7-0 vote. Agenda Item 9B approved.)

20 CHAIRMAN SANCHEZ: Next item is Item C, WUA C-12  
21 -10, that is approving recommendation of award, media  
22 and public relations. And David Morris will be making  
23 that presentation.

24 MR. MORRIS: Mr. Chair, Members of the Board,  
25 David Morris, public affairs manager for the water

1 authority. We are recommending the award of our PR  
2 and media relations contract, which came up for  
3 renewal this year, to the incumbent agency, Cooney,  
4 Watson & Associates. They have a long track record  
5 with the water authority, have been in our corner for  
6 some time on such major initiatives and San Juan Chama  
7 public acceptance, the New Mexico Utilities  
8 acquisition, among a lot of other things. And we  
9 don't want to lost the background and experience that  
10 they bring to the table.

11 The contract amount is about \$450,000.  
12 We're still in negotiations on the final contract.  
13 About 75 percent of that sum is essentially  
14 pass-through money for hard costs such as TV and radio  
15 air time and outdoor advertising, mostly related to  
16 conservation. The budget in this area has remained  
17 steady over the last four years at least. And I would  
18 be happy answer any questions your might have.

19 CHAIRMAN SANCHEZ: Are there any questions?

20 Councillor Garduno.

21 COUNCILLOR GARDUNO: Thank you, Mr. Chair.

22 I was looking at the scoring of all of them,  
23 but primarily the two that came to the top. And  
24 Griffin & Associates had 2805 -- excuse me, 2891,  
25 Cooney, Watson & Associate had 2803, but then there

1 was a re- -- or an interview process where the  
2 positions were reversed, and in fact, one of the  
3 offerers, Griffin & Associates, dropped points.

4 How do you drop points.

5 MR. MORRIS: Mr. Chair, Councillor Garduno, the  
6 rescoring process starts from ground zero and it's a  
7 completely rescoring process once you rescore. After  
8 the initial printed proposal was submitted, we ask  
9 both of those offerers, the top two, to come in and  
10 give a formal, in-person presentation, and we scored  
11 -- we gave a new score based completely on that  
12 presentation, not the previous one.

13 COUNCILLOR GARDUNO: So the previous one was  
14 thrown out, not factored in at all.

15 MR. MORRIS: That's essentially correct. The  
16 new rescore is a completely new process in terms of  
17 the scoring.

18 COUNCILLOR GARDUNO: And based primarily on the  
19 interview or another process of scoring each  
20 individual area, as the first one was done.

21 MR. MORRIS: It's essentially the same areas of  
22 criteria are gone over again, but they are rescored  
23 during the in-person interview process.

24 COUNCILLOR GARDUNO: Because there was no -- at  
25 least from what I saw, none of the printed material

1 had that reprocess. It just talked about an  
2 interview. And I agree with you that history,  
3 corporate knowledge is important, but I was surprised  
4 to see that it would have that much sway over this  
5 interview.

6 MR. MORRIS: Yes, sir. And, in fact, we were so  
7 impressed with the other offerer that we are  
8 establishing another contract with them to share some  
9 of this work around, but the larger contract, which  
10 requires your approval, that has all of the media  
11 purchasing money in it is going to Cooney, Watson, and  
12 so that's why it requires your approval. The other  
13 one is a smaller contract.

14 COUNCILLOR GARDUNO: Well, Mr. Chair, just very  
15 -- not to belabor it, but just to make sure that I  
16 understand this.

17 The swing was, as I say, from 2891 to versus  
18 2803 top 2805 to 2848, which is a swing of about 142  
19 points. And that's a substantial swing when, to begin  
20 where, there was only like 60.

21 MR. MORRIS: Yes, sir. And, as I indicated,  
22 it's a completely fresh scoring process. And also,  
23 some of the variables change a little bit because of  
24 the percentage that is being allowed for the cost  
25 proposal, because there's only -- there are now only



1 two instead of four being analyzed.

2 COUNCILLOR GARDUNO: Thank you.

3 MR. MORRIS: Yes, sir.

4 COUNCILLOR GARDUNO: And thank you for that  
5 clarification.

6 CHAIRMAN SANCHEZ: Commissioner Johnson.

7 COMMISSIONER JOHNSON: Thank you, Mr. Chair.

8 And I'm kind of following down the same road  
9 as Councillor Garduno on this. Are we -- was there  
10 any presentation from any offerer prior to the rescore  
11 at all.

12 MR. MORRIS: When you -- Commissioner Johnson,  
13 Mr. Chair, when you say "presentation," no, there was  
14 no -- there was no in-person presentation given to the  
15 committee by anyone prior to that. It was all printed  
16 submission.

17 COMMISSIONER JOHNSON: It seems to me, and, you  
18 know, maybe I'm just a little crazy and new at this  
19 procurement stuff, and it is a little baffling from  
20 time to time, but it's seems a little odd to rescore  
21 as opposed to have the -- you know, you've got a  
22 cutoff and a contiguous store that would become  
23 cumulative over time. Because the rescoring process  
24 gives you an opportunity to play them against each  
25 other if there's a preferred vendor. And I think that

1 just kind of looks bad overall.

2           If there's a percentage of this that is  
3 based on a presentation and the top two offerers prior  
4 to that presentation come in to make their  
5 presentation, it seems more logical to me, and  
6 probably more fair, to not reset the score and then  
7 regrade the score going forward. It just seems like  
8 an odd way to approach this. Again, it's just looks  
9 like if you've got a preferred vendor in this, you can  
10 make the numbers dance and 2 between the end of the  
11 first process and the end of the presentation. So I  
12 would caution against that going forward.

13           Thank you, Mr. Chair.

14           CHAIRMAN SANCHEZ: And I have one question  
15 regarding the vendors that were not awarded the  
16 contract. Did any of those vendors file an official  
17 protest.

18           MR. MORRIS: Mr. Chair, I am not aware of the  
19 any official protests.

20           CHAIRMAN SANCHEZ: Thank you.

21           Any other questions? I will move approval  
22 OF WUA C-12-10.

23           COMMISSIONER HART STEBBINS: Second.

24           CHAIRMAN SANCHEZ: We have a motion and a  
25 second. All those in favor, signify by saying yes.

1 ALL MEMBERS: Yes.

2 CHAIRMAN SANCHEZ: Opposed, no?

3 That carries unanimously.

4 (6-0 vote. Agenda Item 9C approved.)

5 CHAIRMAN SANCHEZ: Next item is Item D, that's  
6 WUA C-12-11. That is approving recommendation of  
7 award, legal service.

8 Mr. Sanchez.

9 MR. SANCHEZ: Mr. Chairman, Members of the  
10 Authority, and RFP was issued for legal service,  
11 outside legal services. We had two respondents. The  
12 recommendation is the Stelzner, Winter firm. I'd be  
13 happy to answer any questions.

14 CHAIRMAN SANCHEZ: Are there any questions?

15 COUNCILLOR GARDUNO: I have.

16 CHAIRMAN SANCHEZ: Councillor Garduno.

17 COUNCILLOR GARDUNO: They've had a contract with  
18 us prior, haven't they.

19 MR. SANCHEZ: Mr. Chairman, Councillor Garduno,  
20 that's correct.

21 COUNCILLOR GARDUNO: And so this was, again,  
22 based on a criteria that --

23 MR. SANCHEZ: The contract expired. There is a  
24 requirement to RFP it out again.

25 COUNCILLOR GARDUNO: Okay. So and then you only

1 had the two --

2 MR. SANCHEZ: Correct.

3 COUNCILLOR GARDUNO: -- offers? Okay.

4 And what we see here is the scoring that  
5 ended up...

6 MR. SANCHEZ: Mr. Chairman, Councillor Garduno,  
7 that's correct. And you should have the score sheets  
8 and the committee members. There were three: Charles  
9 Kolberg, Stan Allred, and Tom Martinez.

10 COUNCILLOR GARDUNO: Okay. Thank you.

11 Thank you, Mr. Chair.

12 CHAIRMAN SANCHEZ: Thank you.

13 I move approval of WUA C-12-11.

14 COMMISSIONER DE LA CRUZ: Second.

15 CHAIRMAN SANCHEZ: We have a motion and a  
16 second. Any questions?

17 Seeing none, all those in favor, signify by  
18 saying yes.

19 ALL MEMBERS: Yes.

20 CHAIRMAN SANCHEZ: Opposed, no?

21 That carries unanimously.

22 (6-0 vote. Agenda Item 9D approved.)

23 CHAIRMAN SANCHEZ: Next item is Item E, WUA  
24 C-12-12. And making that presentation is Mr. Framel.

25 MR. FRAMEL: Mr. Chairman, Members of the Board,

1 we have a network and software that does video voice  
2 and data communications. This is an agreement with  
3 INX to help us start using those tools over the  
4 network and ensure that the network can handle the  
5 bandwidth in the future and just strategically plan  
6 for that.

7 CHAIRMAN SANCHEZ: Any questions?

8 I move approval WUA C-12-12.

9 COUNCILLOR JONES: Second.

10 CHAIRMAN SANCHEZ: We have a motion and a second  
11 by Council President Jones. Any questions?

12 Seeing none, all those in favor, signify by  
13 saying yes.

14 SIX MEMBERS: Yes.

15 CHAIRMAN SANCHEZ: Opposed, no?

16 That carries unanimously.

17 (6-0 vote. Agenda Item 9E approved.)

18 Commissioner Johnson not present.)

19 CHAIRMAN SANCHEZ: Next item is Item F, WUA  
20 C-12-13. Mr. Framel.

21 MR. FRAMEL: Yes. This agreement is -- at times  
22 we have emergency services we need for either software  
23 hardware or database. This agreement is approving it  
24 with TEKSystems, who is local here, so when we need  
25 those services -- and at times if it's billing or

1 something related, we need them right away, we can go  
2 to them and bring those services in where we don't  
3 have the expertise.

4 CHAIRMAN SANCHEZ: Are there any questions?

5 I move approval of WUA C-12-13.

6 COMMISSIONER JOHNSON: Second.

7 CHAIRMAN SANCHEZ: We have a motion and a second  
8 any questions.

9 CHAIRMAN SANCHEZ? Any questions? Seeing none,  
10 all those in favor, signify by saying yes.

11 ALL MEMBERS: Yes.

12 CHAIRMAN SANCHEZ: Opposed, no?

13 That carries unanimously.

14 (7-0 vote. Agenda Item 9F approved.)

15 CHAIRMAN SANCHEZ: We are now under other  
16 business. And the next item is New Mexico  
17 Environmental Department update on jet fuel spill.  
18 Dr. Jim Davis will be making that presentation.

19 Well, Doctor, and you may -- do you want to  
20 introduce your colleagues that are here with you also?

21 DR. DAVIS: Yes. Thank you, Mr. Chairman,  
22 Members of the Board. My name is Jim Davis. I'm  
23 director or the resource protection division with the  
24 New Mexico Environment Department.

25 With me tonight I John Keeling, who is

1 bureau chief of the hazardous waste bureau, which is  
2 the bureau that's overseeing this project for us. I  
3 also have Steve Roiter, who is a geologist and a  
4 manager in petroleum storage tank bureau here in our  
5 Albuquerque office.

6 I brought him and the petroleum storage tank  
7 bureau is involved in this because we have perhaps not  
8 -- it's not a good thing to state, but we have quite a  
9 bit of institutional experience dealing with petroleum  
10 contamination and the subsurface.

11 I appreciate the invitation tonight, Mr.  
12 Chairman, we were asked to talk to you, as I  
13 understand it, about our long term regulatory an  
14 compliance oversight of this fuel spill.

15 I did that correctly; that's pretty good.  
16 Our regulatory authority stems from Federal Resource  
17 Conservation Recovery Act and the New Mexico Hazardous  
18 Waste Act. This slide gives you a little bit of  
19 history of that regulatory statutory authority. The  
20 New Mexico Hazardous Waste Act was passed in 1978 by  
21 the legislature, and it includes requirements for  
22 corrective action, including releases extending beyond  
23 a facility's boundaries, which is the circumstance we  
24 have here. It was amended again in -- RCRA was  
25 amended in 1996 and grants administrative authority

1 for corrective action.

2           The permit that the Kirtland Air Force Base  
3 currently has was renewed on June 15th of 2010 and  
4 became effective July 16th of 2010. Part 6 of the  
5 permit contains extensive provisions for corrective  
6 action as required pursuant to the New Mexico  
7 administrative code, which incorporates the code of  
8 federal regulations, 40 CFR 264.101.

9           It is the primary driver for corrective  
10 action at the facility. It must protect human health  
11 and the environment for all releases of hazardous  
12 waste or constituents from any solid waste management  
13 unit at the facility.

14           Solid waste management unit is a term of  
15 art, Mr. Chairman, that encompasses the circumstances  
16 we're dealing with here.

17           It also includes schedules of compliance.  
18 And, again, as I indicated earlier, if the  
19 contamination extends beyond the boundaries of the  
20 facility, the facility is required to take corrective  
21 action.

22           So, collectively, what everyone refers to as  
23 the bulk fuels facility spill is made up of two solid  
24 waste management units, the bulk fuel facility former  
25 fuel offloading rack, itself, as well as what's



1 referred to a LNAPL, or light nonaqueous phase liquid  
2 plume. And these are listed in the permit as being is  
3 subject to this corrective action.

4 Many meetings, Mr. Chairman, we've been at.  
5 And, in fact, tonight you've heard reference to what  
6 are known to maximum contaminant levels, MCLs, and I  
7 want to go through these for the constituents that we  
8 know to be in this contaminant plume.

9 Ethylene dibromide, the EPA MCL is  
10 .05 micrograms per liter; that's parts were billion  
11 .05 parts were billion. The New Mexico Water Quality  
12 Control Commission standard is .1 micrograms per  
13 liter.

14 Accordingly, our regulatory oversight will  
15 require that EDB be remediated to the more stringent  
16 of these two numbers. In other words, .05 micrograms  
17 per liter.

18 Benzene, in a similar way, has different  
19 numbers adopted by EPA, 5 micrograms per liter. The  
20 New Mexico standard is 10 micrograms per liter.  
21 Accordingly, our regulatory oversight will require the  
22 Air Force to achieve the 5 micrograms per liter.

23 Toluene, 1 milligram per liter; that's  
24 parts per million. In this case, the New Mexico  
25 standard is more stringent, the New Mexico standard

1 will be met.

2 Total xylenes, the EPA MCL, 10 milligrams.  
3 The New Mexico WQCC, .62 milligrams. The more  
4 stringent requirement will be met.

5 Current status, it is not possible, Mr.  
6 Chairman, to determine or decide on a final remedy  
7 until the investigation of this circumstance is  
8 complete. But what's important to understand is that  
9 interim measures can and are being implemented right  
10 now. We know enough and in the presentation I believe  
11 that you'll see from the Air Force, they will  
12 demonstrate the level of knowledge they have that is  
13 sufficient to allow cleanup to begin. That doesn't  
14 mean that that level of understanding is sufficient  
15 for a final remedy. But it is sufficient to begin  
16 cleanup.

17 We have requested the Air Force to work on a  
18 remedial action plan as soon as possible in order to  
19 treat any groundwater that may be generated by what,  
20 again, I'm sure you have heard referred to as an LNAPL  
21 containment system. But, again, parenthetically on  
22 this slide, I'm indicating should that system be  
23 actually deployed.

24 Corrective measures evaluation report, CME,  
25 this is a regulatory requirement. It's required 180

1 days after we approve the site characterization.

2 Obviously this had not happened yet.

3 And then, to revise the remedial action plan  
4 to incorporate the final remedy, based on the  
5 corrective measures evaluation report and public  
6 input, we follow a public participation process.  
7 These actions will go out under public notice and it  
8 may be, if requested, that we will hold a public  
9 hearing.

10 Finally, we will approve a corrective  
11 measures implementation plan, and that will be  
12 implemented and complete the final remedy. I want to  
13 go back to the -- I want to spend a little bit more  
14 time on this slide, Mr. Chairman.

15 I apologize because this is at exactly the  
16 wrong distance for me to see it with my glasses on, so  
17 I have to take my glasses off to be able to read it.

18 In the public comment period tonight, and at  
19 public meetings that have been held over the last  
20 several months that I have participated in, we have  
21 focused on the technology known as soil vapor  
22 extraction. There's been a lot said tonight. I'm  
23 going to let the Air Force make their own  
24 presentation, but I want to make it clear, Mr.  
25 Chairman, to you and to the members of the board that

1 soil vapor extraction technology is only one tool in  
2 our tool kit. There are many technologies in addition  
3 to soil vapor extraction that can be used, and, quite  
4 frankly, most likely, will be used to remediate this  
5 plume, this contaminant plume.

6 Soil vapor extraction is the first  
7 technology that we're directing the Air Force to  
8 employ; is it not the only technology. We will do  
9 this in an iterative way. We will see what results we  
10 get as the soil vapor extraction process occurs over  
11 some period of months. And those data will inform the  
12 next step or series of steps in the process. We have  
13 in fact directed the Air Force to install an  
14 interceptor well -- my term, other people will call it  
15 different things -- at the toe of the -- well,  
16 approximately the toe of the BTEX plume right now in  
17 order to, if we feel it necessary, to achieve what's  
18 known as hydraulic control over the plume.

19 But one of the things we don't want to do is  
20 make this situation worse than it already is by taking  
21 action before we understand the consequences of those  
22 actions. We do have experience institutionally at  
23 other places in the state where it is possible by  
24 utilizing an inappropriate approach to literally cut a  
25 contaminant plume in two and make it much more

1 difficult to remediate. So one of the things I have  
2 said in previous public meetings, is we -- I point to  
3 the first principle of the Hippocratic Oath, which is  
4 first do not harm. What we want to do is have the Air  
5 Force move rapidly but thoughtfully in the remediation  
6 of this plume so that we actually achieve what we all  
7 want without running the potential of making the  
8 situation much worse than it already is.

9           That concludes my prepared remarks, Mr.  
10 Chairman. I'm happy to stand for questions now at the  
11 pleasure of the board. I would make a suggestion that  
12 perhaps it would be better to let the Air Force make  
13 their presentation and then we can both be available  
14 for questions and answers, but it is the pleasure of  
15 the board.

16           COUNCILLOR GARDUNO: I have one question I'd  
17 like to ask.

18           CHAIRMAN SANCHEZ: Well, do you want to wait  
19 until the next presentation is made, or does it -- go  
20 ahead and proceed, Councillor Garduno.

21           COUNCILLOR GARDUNO: Thank you, Mr. Chair.

22           I just have this one question. You  
23 mentioned at the very outset that NMED has dealt with  
24 a lot of fuel spills throughout the state, I assume.  
25 What is the largest one that you know of that NMED has

1 dealt with.

2 DR. DAVIS: Mr. Chair, Representative Garduno, I  
3 don't have a number memorized of a volume of a spill.  
4 I can tell you that I have personal knowledge -- we  
5 had a -- we had a -- in fact, I think we're still  
6 remediating it, a spill in Milan, next to Grants, with  
7 a water supply well that had I believe about 50 feet  
8 of gasoline in the water supply well. And the person  
9 who owned the land was pumping the gasoline out and  
10 putting it in his pickup truck; thought that he'd  
11 found gold.

12 We have dealt with a spill called the Hobbs  
13 City Wells, which contaminated the Ogallala Aquifer.  
14 This was discovered in 1995. I believe it was given a  
15 no-further-action status about two and a half years  
16 ago. It did cause the city of Hobbs to have to shut  
17 down one of their water production well fields. They  
18 are now back up and using those wells. But that took  
19 about 17 years or so to remediate. I don't know what  
20 the volume lost was.

21 COUNCILLOR GARDUNO: And, Mr. Chair, I wanted to  
22 establish whether or not we've had anything to the  
23 magnitude that we're talking about right now, which is  
24 -- I assume 24 million is an optimal number or 8  
25 million. My -- what I've heard -- I also don't have

1 this on necessarily good terms, but 75,000 was the  
2 largest that NMED has ever dealt with.

3 DR. DAVIS: Mr. Chair, Councillor Garduno, I'm  
4 going to ask Steve Roiter, but I think that number is  
5 very low.

6 COUNCILLOR GARDUNO: And I guess the  
7 accompanying question would be is it to the extent of  
8 8 million or 24.

9 MR. ROITER: Mr. Chairman, Members of the Board,  
10 I'm Steve Roiter. I'm a 35-year professional  
11 geologist, with 22 years in petroleum remediation and  
12 investigation. And I've been with the State of New  
13 Mexico for 16 years ago.

14 And that 75,000-gallon number is low. We  
15 have dealt with releases of up to 2 million gallons.  
16 And the bottom line, sir, is, once you're over a  
17 million gallons, you've got a mess on your hands and  
18 your decision tree doesn't really change. The length  
19 of time you're going to be at work on something and  
20 the scale of what you're going to be attempting to do  
21 changes, but your decision about how you go about  
22 solving the problem does not change.

23 COUNCILLOR GARDUNO: And, Mr. Chair.

24 And thank you for clarifying that. And up  
25 to 2 million is still somewhat less than eight

1 million, and certainly very much less than 24 million.  
2 And I guess the point that people have pointed out,  
3 too, is that when you have that volume not only in  
4 gallons but also in weight and activity, that that 24  
5 million pushes out a lot faster just for sheer volume,  
6 if no other reason. So I wanted to establish that, if  
7 I could. And thank you very much. Thank you for  
8 classifying that.

9 CHAIRMAN SANCHEZ: Commissioner Johnson and then  
10 Mr. Perry.

11 COMMISSIONER JOHNSON: Thank you, Mr. Chair.  
12 And I'm going to get back to the volume as well here.

13 Do we have a good estimate that the state  
14 feels comfortable with, as far as is it 8 million, is  
15 it 24 million? I've heard 24 million thrown around a  
16 lot lately. Perhaps it is, I don't know. But what is  
17 your official position on the volume of this spill at  
18 this point?

19 DR. DAVIS: Mr. Chair, Commissioner Johnson, our  
20 official positio is that there's a lot of it.

21 COMMISSIONER JOHNSON: And does it matter I  
22 guess should be the next question.

23 DR. DAVIS: It matters in the sense -- Mr.  
24 Chair, Commissioner Johnson, it matters in the sense  
25 of he scale of the remediation system that you employ,



1 because you want to have a robust system that will  
2 accomplish the remediation over a reasonable time  
3 frame. And by "reasonable," that would be ten years  
4 or so.

5 So the size of the remediation system will  
6 be informed by the data that we collect initially that  
7 tells us what are we seeing, how are we seeing the  
8 plume respond to SVE? We should see within six months  
9 or so, after an aggressive soil vapor extraction  
10 system is put in place, we should begin to see changes  
11 in the subsurface, the data from the monitoring wells  
12 will begin to change, concentrations will begin to go  
13 down. By how much, we can't predict; how rapidly, we  
14 also can't predict. So those data will be very  
15 important in informing the next step in this process.

16 And what we ultimately end up with I feel  
17 absolutely confident will have soil vapor extraction  
18 as one of its primary technologies, but we also will  
19 probably have other technologies that we will employ.  
20 We may in fact do -- utilize an interceptor well to  
21 pump contaminated water and then clean that at the  
22 surface. We may well use or direct the Air Force to  
23 use downhole technologies, like downhole sparging, and  
24 I'm not going to try and explain that. If the board  
25 wants it explained, I'll refer again to Steve Roiter.

1           But there are a variety of technologies in  
2   our tool kit, and we will use those as needed to  
3   accomplish the task. So I want to assure the members  
4   of the board that if you have heard the only thing  
5   that will happen is soil vapor extraction, that that  
6   is simply not true. That is the first step in this  
7   process. It is not the last step.

8           COMMISSIONER JOHNSON: Mr. Davis, have you  
9   reviewed the plans for SVE that the Air Force has  
10  provided? Is the environment department confident  
11  that their plan and their technology meets with your  
12  approval?

13          DR. DAVIS: Mr. Chair, Commissioner Johnson, yes  
14  we have. We just sent a letter June 11th, nine days  
15  ago, approving a modification to their SVE system. We  
16  also asked them to do a number of other things in that  
17  letter. But yes, we're confident -- we have  
18  experience with SVE around the state, we know that it  
19  does work. It does not create another contaminant  
20  stream or waste stream. The vapor are burned.  
21  There's a need for an air quality permit because the  
22  furnaces will burn the vapors and will have an exhaust  
23  of CO2 and hydrocarbons.

24           At the beginning -- in the late 1980s --  
25  from the late 1980s until now, with the storage tank

1 program that the environment department administers.  
2 There have been approximately 3,000 around the state  
3 of New Mexico contaminated with petroleum in the  
4 subsurface. The vast majority of them are very small.  
5 There's some significant number of them that are quite  
6 large. Of those 3,000, approximately 2,000 of them  
7 have been remediated to the point where you cannot  
8 detect the petroleum in the subsurface with the  
9 analytical techniques we currently have available to  
10 use. There's about 900 sites that are still on the  
11 books.

12 That gives you an indication of the amount  
13 of experience collectively, institutional experience,  
14 that the environment has in dealing with these things.

15 COMMISSIONER JOHNSON: And then lastly, you hear  
16 a lot of folks, and I happen to be one of them, that  
17 would like to see this done now, or yesterday would  
18 have been a lot better if we could have had that plume  
19 and the remediation in process and getting to the  
20 point where that water is drinkable right now.

21 In comparison to other spills around the  
22 country or around the state that you're aware of, is  
23 this an unusually long timeline, or is this kind of  
24 the amount of time it takes to characterize a spill of  
25 this size? Where are we on the timeline, and are we

1 way behind schedule or are we on schedule or -- you  
2 know, where are we?

3 DR. DAVIS: Mr. Chair, Commissioner Johnson,  
4 that's a really good question. We are not satisfied,  
5 quite frankly. We want the Air Force to move faster.  
6 We are urging them to do that. But it does take time.  
7 You first have to have at least some reasonable idea  
8 of what you're dealing with. We now have that. That  
9 actually became available last fall, less than a year  
10 ago, after the Air Force completed the aggressive well  
11 drilling campaign that established the monitoring  
12 wells that are currently available for us.

13 But that in fact is not yet complete,  
14 because we still do not know where the northeast  
15 corner of EDB plume is. We have not found the edge of  
16 it. We have directed the Air Force to put in more  
17 monitoring wells and we believe, but we won't know  
18 until the data come back, but we believe that those  
19 monitoring wells most likely will tell us where that  
20 northeastern edge of the plume is.

21 The location of placing these wells, when  
22 our technical staff looks at the data with the Air  
23 Force, we may very well informed, educated estimates  
24 of where to put the wells. And I don't want to sound  
25 too glib, Mr. Chairman, but the main problem is you

1 can't see underground. You don't know what you're  
2 going to find until you drill a well, and it may be  
3 that that well brings back data that don't tell you  
4 anything of value. Alternatively, a well may bring  
5 back data that tells you an enormous amount. You  
6 don't know that, however, until you can examine those  
7 data.

8           So this is a -- by its nature, it's an  
9 iterative process. You drill a well or a number of  
10 wells you look at data and then you make a decision on  
11 what you need to do next. You can't do that in  
12 advance. And, again, that's why what we don't want to  
13 see is any uninformed or poorly informed action end up  
14 making the situation worse than it already is.

15           COMMISSIONER JOHNSON: Thank you.

16           Thank you, Mr. Chair.

17           CHAIRMAN SANCHEZ: Mr. Perry.

18           MR. PERRY: Mr. Davis, I'd like to express my  
19 appreciation to you and your staff for coming down  
20 here tonight and giving this presentation. We've been  
21 dealing with this issue for quite some time, and it's  
22 been difficult to separate the science from some of  
23 the mischaracterizations that are related to this  
24 debate. I personally have found it very help and I  
25 think many of the other members would agree with me.

1           It's also been helpful to recognize what the  
2 authority is for what has to be done to begin  
3 corrective action and remediation of this plume. And  
4 it appears to me that the New Mexico Environmental  
5 Department is the chief regulatory authority for this  
6 particular incident; is that correct?

7           DR. DAVIS: Mr. Chairman -- I was about to call  
8 you Representative Perry. I apologize.

9           Commissioner Perry, that is correct. The  
10 state does have the regulatory authority.

11          MR. PERRY: And, you know, in explaining to us  
12 the matter of process, that's been very helpful, too.  
13 And as I look at the particular slide "Current Status  
14 and Looking Ahead," that answers a lot of questions  
15 for me as far as what has to take place as a matter of  
16 process. So it seems to me that on that slide, you  
17 folks will ultimately issue the remediation action  
18 plan, is that correct, you'll have to approve that?

19          DR. DAVIS: We approve the plan. The Air Force  
20 or any permittees submits the plan to us, we approve  
21 it. That also can be an iterative process back and  
22 forth. We oftentimes find deficiencies, we remand it,  
23 we tell them to do something different.

24          MR. PERRY: Sure. And then there's a corrective  
25 measure evaluation report that's required 180 days, so

1 six months after you approve the initial site  
2 characterization; is that right?

3 DR. DAVIS: Mr. Chairman, Repre- -- Commissioner  
4 Perry.

5 MR. PERRY: It's actually CAO Perry.

6 CHAIRMAN SANCHEZ: CAO Perry.

7 MR. PERRY: Yeah, yeah. I know that gets  
8 complicated.

9 DR. DAVIS: I've been in front of the  
10 legislature way too many times. So I apologize.

11 MR. PERRY: That's quite okay. You're doing a  
12 real good job, Mr. Davis.

13 And then the revise of the remedial action  
14 plans and final remedy, and it looks like there's a  
15 public notice to be issued to seek public input and a  
16 public hearing may be held. So Councillor Garduno and  
17 some of the other folks can go to that public hearing  
18 and have their opportunity to submit what they believe  
19 to be the facts and other -- what the corrective  
20 action should be and what should be taking place; is  
21 that right?

22 DR. DAVIS: Mr. Chair, Commissioner Perry, yes.  
23 I'm going to ask John Keeling to explain it to you in  
24 a little bit more detail because I think this is an  
25 important point.

1 MR. KEELING: Mr. -- Commissioner Perry --

2 MR. PERRY: Mr. Perry will be fine. I think  
3 that's probably the easiest thing.

4 MR. KEELING: I'm John Keeling --

5 MR. PERRY: We're confusing you.

6 MR. KEELING: -- bureau chief, and I've been  
7 with the department for about 18 years, been working  
8 in the Resource Conservation Recovery Act in both  
9 solid waste and hazardous waste areas for that time.

10 The process regarding the corrective  
11 measures evaluation is process where the Air Force and  
12 their contractor will develop a scheme of various  
13 alternatives for a remedy. It may be some elements  
14 that are already captured, such as the soil vapor  
15 extraction, or other remedies, and it will probably be  
16 some number of remedies that will be proposed.

17 And then the environment department will put  
18 forth their proposal of the remedies, you know, to  
19 capture this contaminated plume, and then put that  
20 forth in a public comment period. The folks out there  
21 in the public, you folks here on the commission can  
22 comment on that at two different levels. As kind of a  
23 common public level to provide testimony, or also as  
24 technical testimony, too, to put forth what you  
25 believe may be the appropriate remedy or remedies.



1           And then that will potentially end up in a  
2 hearing, if there is one requested, and I imagine that  
3 will most likely be the case because this is a  
4 significant issue for all of us. And then it will go  
5 through the hearing process, and then eventually it  
6 end up before the department secretary of the  
7 environment, and then he will issue a final order.  
8 And then there is some period of time after that that  
9 will be implemented.

10           MR. PERRY: Mr. Keeling, that sounds like a  
11 rather, you know --

12           MR. KEELING: It's fairly lengthy process --

13           MR. PERRY: -- lengthy process --

14           MR. KEELING: -- and --

15           MR. PERRY: -- right.

16           MR. KEELING: Yeah.

17           MR. PERRY: And in something of this magnitude,  
18 do you have any estimate at all of what we're looking  
19 at as it relates to the length of that process?

20           KEELING: That really depends on what we find  
21 out from these new monitoring wells that are going to  
22 be in place here in the next, you know, two to three  
23 months. And if we have to go, you know, continue with  
24 additional wells, really, that's the key to  
25 understanding that final characterization, again,

1 because we need to know the final characterization  
2 and, you know, kind of look, you know, again,  
3 subsurface, we don't know what's down there, so we  
4 have a more complete understanding. And once that is  
5 completed, then we'll be moving forth from there.

6 MR. PERRY: And, again, to get the point that  
7 Mr. Davis had made, if we were to move prematurely, we  
8 could cause more harm than good, basically, if we  
9 didn't have accurate characterization and  
10 quantitative, qualitative assessment of this  
11 particular incident and the plume?

12 MR. KEELING: That's correct.

13 MR. PERRY: Thank you, sir.

14 Thank you, Mr. Chairman.

15 CHAIRMAN SANCHEZ: Thank you, CAO Perry.

16 And we could pay you commissioner's salary  
17 and save the City of Albuquerque some money.

18 Councillor Garduno.

19 COUNCILLOR GARDUNO: Thank you, Mr. Davis. And  
20 maybe it's Mr. Keeling that needs to address this, but  
21 I think there's been some misunderstanding. I don't  
22 suggest that the water authority grab a gun and go and  
23 put it to the Air Force's head, if that's what people  
24 are thinking. But we are not a potted plant, right?  
25 I mean, we don't just sort of sit around and think,

1 hey, whatever they want is all right with us? We do  
2 have standing.

3 So if we have standing, you would pay  
4 attention to what the water authority would desire? I  
5 take that as a yes.

6 DR. DAVIS: I'm not sure there was a question,  
7 but I'll answer it anyway.

8 Mr. Chair, Representative Gar- -- I'm just  
9 going to say I'm going to give up. I'm going to call  
10 everybody Representative. I apologize.

11 COUNCILLOR GARDUNO: You can just answer the  
12 question. You don't have to --

13 DR. DAVIS: Yeah, what -- we -- I mean, this is  
14 the incredibly serious problem.

15 COUNCILLOR GARDUNO: And saying we don't care  
16 what the --

17 DR. DAVIS: -- it's an incredibly --

18 COUNCILLOR GARDUNO: -- numbers are --

19 DR. DAVIS: -- serious.

20 COUNCILLOR GARDUNO: -- is not helping.

21 DR. DAVIS: We are -- we are pushing the Air  
22 Force, we are going to require actions. Actions are  
23 already being taken. They are not yet adequate. Over  
24 the next several months it is our expectation that  
25 significant progress will be made. And we going to

1 stay on this like -- pick whatever metaphor you want.

2 In the meantime, we are actively engaged  
3 with members of your staff. They participate in  
4 meetings with us and the Air Force. We do listen to  
5 them. We have held what I guess the Air Force would  
6 characterize as senior leadership meetings where  
7 Commissioner Hart Stebbins has attended, John Stomp  
8 has attended, other persons on your staff have  
9 attended.

10 We actively seek their input. We actively  
11 listen, exchange ideas. Yes, you -- the expertise  
12 that your staff brings, the concern that you bring as  
13 elected officials is incredibly important here because  
14 it helps the process continue to move forward.

15 COUNCILLOR GARDUNO: Thank you.

16 DR. DAVIS: So yes, you do have standing in that  
17 sense and we look forward to continuing to work with  
18 you.

19 COUNCILLOR GARDUNO: And more so than just being  
20 invited to a public meeting and sit in the audience  
21 and raise our hands and say, "What's happening?" We  
22 must have standing that's further than that and  
23 statutory standing.

24 DR. DAVIS: Mr. Chair, Representative Garduno, I  
25 can't speaker to your statutory standing. I can speak

1 to, as a practical matter, what you have been doing.  
2 And, again, I have participated in meetings with  
3 Commissioner Hart Stebbins. She has been at the  
4 table, the assistant secretary of the Air Force has  
5 been at that same table, as well as cabinet secretary  
6 from the environment department. Your input is  
7 sought, it is listened to that and process will  
8 continue.

9 COUNCILLOR GARDUNO: So, Mr. Chair, I guess I  
10 just want to dispel the thought or the concept that  
11 some people have intimated that we have no authority  
12 that we have no standing and we should acquiesce to  
13 NMED anything that has to do with the remediation of  
14 this problem. And I take umbrage at that. I mean, if  
15 that's the case, then let's dissolve this charade here  
16 and, you know, have somebody else do the water  
17 distribution. Why have a water authority.

18 So, you know, I just don't like the fact  
19 that the water authority has been placed in a -- at a  
20 level that it's insignificant and I just don't think  
21 that's true. And I certainly don't appreciate it when  
22 members of the same body have that attitude. And I  
23 don't have that attitude and I'm not going to wait to  
24 go to a public meeting and wait till I get called on  
25 when I raise my hand. I'm going to raise cain

1 wherever and whenever I think I need to.

2 Thank you, Mr. Chair.

3 CHAIRMAN SANCHEZ: Thank you, Councillor.

4 Thank you, Dr. Davis, for you time.

5 Let's go ahead and proceed to the next item,  
6 and that's going to be the Kirtland Air Force Base  
7 update on the jet fuel spill. And the individual that  
8 will be making that presentation will be Tom  
9 Berardinelli.

10 Welcome, sir.

11 MR. BERARDINELLI: Mr. Chair, Members of Board,  
12 we appreciate the invitation to be here tonight to  
13 update you and address questions or concerns that you  
14 may have.

15 These are the areas that, at least in my  
16 presentation that I'll address. But if there are  
17 other questions that the board has, I'll be glad to  
18 address those as well.

19 I wanted to step back, and I think it would  
20 be helpful, and we haven't done this really in long  
21 time, and I think this would be helpful to the board  
22 and to those that are present in terms of seeing how  
23 we have evolved in where we have gone and also to  
24 address where we are going.

25 So we'll start with a timeline. There's a

1 key along the bottom, so as I start to build this,  
2 you'll be able to see what some of those items mean  
3 and then I will talk through them with some callouts.

4           It's always good to know where are you.  
5 We're here. That yellow line, that and light yellow  
6 line that comes down through 20 June 2012 is where we  
7 are today in the grand scheme of this, you can see.  
8 And I'll explain. There are question marks at both  
9 the beginning and the ends of this timeline, and a  
10 reason for that.

11           1999 is when the plume -- or, I'm sorry,  
12 when the leak was discovered. It was detected and  
13 stopped at the former fuel offloading rack in 1999.  
14 Personnel that worked in the fuel yard reported  
15 stained soil to the base. Upon further investigation,  
16 soil was found to be saturated and it was reported to  
17 the regulatory authority, the New Mexico Environment  
18 Department, in November of 1999. The leaking portion  
19 of the system was taken out of service upon discovery.  
20 Line leak testing was performed in late 1999 and  
21 system deficiencies were noted and corrected.

22           Results from the investigation were used to  
23 determine this fuel was the result of a leak over a  
24 relatively long period of time. The initial  
25 investigation plan was submitted to the New Mexico

1 Environment Department Groundwater Quality Bureau in  
2 January of 2000.

3           So the first point I want to make with this  
4 slide is that I think sometimes as we made  
5 presentations there's still some confusion as to  
6 whether there's still leaking. The leak was stopped  
7 in 1999, so there has not been any additional  
8 contribution to the plume that exists in the soil and  
9 on the water table and in the dissolve phase since  
10 1999.

11           Although we don't know exactly when the leak  
12 began, we know it had to be prior to the late 1970s  
13 because that's when the Air Force switched from a  
14 lead-based aviation fuel to an unleaded JP-4. If the  
15 leak had started after the switch so JP-4, we wouldn't  
16 be discussing EDB at all. EDB is common to leaded  
17 gas, it is a lead scavenger, and is unique, just  
18 aviation gas. So we do know that, as a marker, it has  
19 to occur -- the leak had to have begun sometime before  
20 the late '70s.

21           As we began installing the first monitoring  
22 wells, we essentially began what I would call the  
23 characterization and evaluation of plume, which you  
24 can see in that gold bar which will continue from the  
25 moment we began that until there is no further action



1 required by the state.

2 The first soil borings were started in April  
3 of 2000 and the first groundwater and soil vapor  
4 monitoring wells were installed in late 2000 in  
5 accordance with the investigative work plan that was  
6 submitted and approved by the New Mexico Environment  
7 Department.

8 In 2004, we began operation of the first  
9 internal combustion engine soil vapor extraction unit  
10 which was put into operation in the immediate vicinity  
11 of the original leak, and, essentially, if you look at  
12 that green bar, was the beginning of interim  
13 remediation. With the installation of that soil vapor  
14 extraction system, we began to extract fuel through  
15 the vapor from the ground. And that has continued  
16 with one small break that I will explain in a moment.  
17 So interim remediation began in 2004.

18 After operation of the first soil vapor  
19 extraction unit investigative data depicted a  
20 persistence of vapor concentrations in certain  
21 portions of the bulk fuel facility, unlike others  
22 where the vapor plume was appearing to decrease.

23 Kirtland Air Force Base then made proposals  
24 to the New Mexico Environment Department to install  
25 additional monitoring wells to determine the cause of

1 this in January 2007, and that resulted in the first  
2 measure LNAPL on the water table, in February 2007.  
3 In late 2007 addition will a monitoring wells were  
4 added to the north and the east of the former fuel  
5 offloading rack, which were the first monitoring wells  
6 that were installed off the installation on the  
7 aquifer. This prompted the addition of -- and  
8 detected, was the first detection of fuel on the  
9 aquifer. This prompted the addition of more  
10 monitoring wells and the addition of three more  
11 internal combustion engine soil vapor extraction units  
12 to the existing one for a total of four in operation  
13 distributed to various monitoring wells on the  
14 information, based on the information we knew at the  
15 time, which was not nearly what we have now but what  
16 we knew based on those monitoring wells.

17 A total of 100 monitoring wells were  
18 installed as part of the initial investigation. That  
19 included 29 groundwater monitoring wells, and 71 soil  
20 vapor monitoring wells. All initial groundwater  
21 monitoring wells were what we would now term shallow  
22 wells that were screened at the water table in a 15-  
23 to 25-foot screen.

24 In 2010, New Mexico Environment Department  
25 transferred your restriction of the fuel plume

1 characterization remediation from the groundwater  
2 quality bureau to the hazardous waste bureau. In  
3 April and August of 2010, hazardous waster bureau  
4 issued direction to the Air Force to install a network  
5 of 113 additional monitoring wells. These included 35  
6 soil vapor monitoring and 78 groundwater monitoring  
7 wells.

8 In September 2010, the Air Force awarded a  
9 performance-based contract to Shaw Environmental that  
10 would address the specific requirements of the April  
11 and August NMED letters, complete characterization,  
12 attempt to contain the LNAPL and have a proposed  
13 remedy in place within five years. Initial work plan  
14 were submitted in November of 2010.

15 On the soil vapor monitoring wells, this  
16 time the well cluster is screened at six different  
17 depths through the soil from approximately 25 feet to  
18 450 feet below the surface, and each screen length is  
19 about 10 feet. With these new wells, this camp --  
20 with the wells that were installed during this  
21 campaign, wells were installed at both shallow,  
22 intermediate and deep levels in a cluster of three  
23 wells at the required location.

24 Shallow wells are at between 5 feet above to  
25 15 feet below the groundwater surface. Intermediate

1 wells are screened at 15 to 30 feet. Below  
2 groundwater surface -- or below the water surface, and  
3 deep wells are screened 40 to 55 feet below the  
4 groundwater. Wells screened across the LNAPL plume do  
5 have various in screening and specifically the deep  
6 wells may be as deep as 100 feet below the groundwater  
7 surface.

8           One very important aspect of responding to a  
9 situation such as this is that not only that the leak  
10 be stopped and the characterization initiated, it's  
11 also to ensure that we have measures and  
12 infrastructure in place to prevent it from ever  
13 happening again. To ensure that, the Air Force funded  
14 and completed a \$12 million fuel infrastructure  
15 replacement military construction project that now  
16 includes state of the art storage tanks, aboveground  
17 and vaulted piping, and spill capture area that would  
18 not allow a situation that occurred in the past under  
19 the older infrastructure to occur again. So the  
20 ability for this to happen again or for the plume to  
21 receive any continued contribution of the plume has  
22 been addressed in this project that was completed in  
23 March of 2011.

24           This brings us to our most recent events and  
25 where we are today. In December of 2011, we published

1 our first quarterly report that included data from all  
2 113 additional monitoring wells. This was the first  
3 quarterly report that we had data from all of those  
4 wells. And it allowed us to then determine the best  
5 placement for both the larger scale thermal oxidation  
6 SVE system that we've been referring to, that has been  
7 referred to this evening, and wells and LNAPL  
8 containment wells. Those locations have been approved  
9 by NMED and the wells are come complete, both the soil  
10 vapor extraction wells and the -- as we call it, the  
11 containment well, which is located at the toe of the  
12 LNAPL approximately plume.

13 As you'll see, there's a gap in our green  
14 treatment bar on this slide. During this time, the  
15 four SVE were taken out of the service on the 2nd of  
16 October 2011 to perform three different tests: Radius  
17 of influence test; new log testing and a vacuum test.

18 Units did resume minimal operation during  
19 this period, which was no more than a few days at a  
20 time. And so we didn't -- we show that gap. After we  
21 completed the new SVE wells for the new system, which  
22 is under design and construction now, or is under  
23 design, we relocated the internal combustion SVE units  
24 to those wells and also monitoring wells closer to the  
25 thickest area of the plume where their operation

1 resumed on the 23rd of April 2012. At these location  
2 they are operating much more effectively, and we know  
3 that because they're taking much, much less propane to  
4 operation than in the previous locations, which means  
5 they're operating principally off the fuel in vapor  
6 form that they are extracting.

7 We also have one unit that remains in  
8 operation where the source area is for the soil, and  
9 we moved on of the units to a monitoring well,  
10 although not with the same capability as the SVE  
11 extraction, closer to the thickest portion of the  
12 vapor concentrations, and it also is operating more  
13 effectively.

14 Shaw has not performed any numerical  
15 comparisons of the improvement of the SVE performance  
16 other than to recognize, as I mentioned, the propane  
17 consumption is down dramatically from previous  
18 consumption. The focus has really been on reduction  
19 in contaminant concentrations, which, at this point,  
20 is not quantifiable.

21 I'm shifting now to -- the color you'll see  
22 on here, the blue, are planned future actions and are  
23 both approved actions. We have received NMED approval  
24 to drill three clusters of three wells downgradient in  
25 the northeast direction of the known areas of the

1 plume to further characterize the dissolve phase of  
2 the plume. Drilling will begin in July, subject to  
3 availability of drill rigs, and should be -- and is --  
4 should be complete by September. Again, subject to  
5 the availability of the drill rigs.

6           Similar to our previous drilling campaign,  
7 we'll make at least three visits to the affected  
8 neighborhoods. In this case, one of the wells is --  
9 one of the clusters is on base, one of the clusters is  
10 in Elder Homestead, and one of the clusters is in  
11 Trumbull. We'll go door to door in the vicinity of  
12 the drilling and provide information to the residents  
13 at we did in the last campaign.

14           The new wells, actually nine total, in three  
15 clusters, are to be screened at shallow, intermediate  
16 and deep depths. We'll continue to collect samples  
17 from the new wells two weeks after development is  
18 completed and place a rush to turn results. However,  
19 definitive information will demand at least two to  
20 three quarters of sampling before data is considered  
21 fully useable. This is based on the positions  
22 previously noted, that one data point is not a mark to  
23 make a decision on EDB concentrations.

24           Based on the results of sample testing from  
25 these wells, we will determine if we need to propose

1 additional monitoring wells and their locations to  
2 NMED or approval. We will continue this iterative  
3 approach to completing the characterization of the  
4 plume until we have sufficiently identified the extent  
5 of contamination necessary for the full remediation.

6           The new thermal oxidation soil vapor  
7 extraction system is expected to be operating by late  
8 November. It is important to note that this is only  
9 the first step in the interim process and that further  
10 installations may be required dependent on performance  
11 of the new system and data that we continue to receive  
12 from the monitoring wells, and any new monitoring  
13 wells that may be installed.

14           The measurable effectiveness of the new  
15 system will not be understood until a period of  
16 performance has been recognized. However, rough  
17 estimates of performance would suggest that the  
18 airflow rates with this new system would reach ten  
19 times that of a single SVE unit.

20           We need to emphasize again that this is only  
21 the first step in developing the interim measure of  
22 the therm ox SVE and will likely recognize various  
23 iterative adjustments in the future as we gain more  
24 knowledge on its effectiveness and its ensuing results  
25 on the contaminant concentrations.



1           As you may be aware, the agency for toxic  
2 substances and disease registry, a division of the CDC  
3 at Air Force request began a health risk assessment of  
4 plume earlier this year. This is an independent  
5 assessment with an estimated completion date of  
6 December 2012. ATSDR will hold separate public  
7 meetings as part of this assessment, which will be  
8 announced the public, and Kirtland Air Force Base will  
9 post it on its public website.

10           We still believe it is possible to complete  
11 our characterization and evaluation of the plume and  
12 recommend a final remedy in place not later than  
13 December 2015. Once that proposal is made to the New  
14 Mexico Environment Department, it will evaluate the  
15 proposal and hold public meetings in the process that  
16 Dr. Davis explained and will either disapprove or  
17 modify the proposal to direct the final remedy in  
18 place, and likely it will be an iterative process as  
19 well.

20           The Air Force's intent is that we would have  
21 those methods in place, that we will meet the  
22 requirements of final remedy, which is to remediate  
23 the plume such that is it not a threat to production  
24 wells and human health and welfare when we propose  
25 that remedy to the New Mexico Environment Department.

1           Finally, when the Air Force believes it has  
2 achieved concentration levels below the maximum  
3 contaminant level such that the plume is no longer a  
4 threat to the production wells, we will request a  
5 determination of no further action from the New Mexico  
6 Environment Department. NMED will evaluate that  
7 proposal, hold public meetings, once again, before  
8 making its final determination. At this time, it's  
9 not possible to estimate when that may be. It will be  
10 data driven, and depend on concentration levels that  
11 meet and ensure legal requirements for safe drinking  
12 water.

13           On this bill of the side I've added some  
14 notional in gray milestone and what these represent  
15 are placeholders, they represent actions that may be  
16 taken based on data to assist in remediation efforts,  
17 to expand in remediation efforts and what we may do  
18 additional based on the data that we receive. The  
19 monitoring wells I think although some think all they  
20 do is look at where the plume is, and they do, they're  
21 the only way for us to know where the plume is, but  
22 they will receive arrest secondary purpose in the  
23 remediation process, and that is they will tell us how  
24 effective the actions that were implementing are  
25 working. And based on what the concentrations look

1 like and the reading that we get from those monitoring  
2 wells, we'll just as necessary to ensure that the  
3 remediation is effective.

4           It could include various technologies, many  
5 of which Dr. Davis mentioned, to include additional  
6 SVE wells, additions to the SVE system, LNAPL  
7 containment strategies which are hydraulic or pump and  
8 treat, and other possible technologies that might not  
9 be available today but may become available as we move  
10 further.

11           Any -- and anything that will -- that would  
12 address the efficiency and effectiveness of the effort  
13 will be evaluated. And so we're not done based on  
14 what you see today or even what has been proposed.

15           I think many of you have seen this before  
16 this is an iterative process. What we do in terms of  
17 characterization and evaluation, interim remediation  
18 all create a feedback loop that help us adjust in  
19 terms of how we approach the characterization, what we  
20 do with that information and place what systems we put  
21 in place, so that we ensure that we're getting the  
22 most effective result from anything that we put into  
23 place either as an interim remedy, which is what we're  
24 talking about right now. Anything that we do prior to  
25 proposal of the final remedy is only an interim

1 remedy. Is it not necessarily all that we will do.  
2 It may be part of what the final remedy is but is not  
3 necessarily everything.

4 The check marks are required items that  
5 we've completed. Where you see the round circles,  
6 those are ongoing things that will continue throughout  
7 the characterization. And where you see the dash marks  
8 are those areas that remain to be done but are  
9 scheduled to happen within the next several months.

10 This map indicates the location of the  
11 three -- the nine monitoring wells that we're  
12 installing in the three clusters of three. Those are  
13 based on the best advice of the staff, of the -- of  
14 Shaw Environmental. They were presented to the New  
15 Mexico Environment Department and approved for those  
16 locations. Again, those are not necessarily the last  
17 of the monitoring wells that we install. Everything  
18 that we do will be data driven, and so based on what  
19 information we gather from those monitoring wells,  
20 will determine whether we need additional monitoring  
21 well and in what direction those monitoring wells  
22 should be installed so that they are placed in the  
23 most effective locations.

24 There's been quite a bit of discussion on  
25 volume of the plume, and so I just wanted to spend a

1 minute to address at least our perspective on that.  
2 Kirtland and the Air Force will be dispute really any  
3 amount that is postulated for the plume, and the  
4 reason we won't dispute it is because it's not  
5 possible to prove definitely. There are estimates and  
6 they're based on a variety of assumptions. It's not  
7 to say that we don't take it seriously or that we  
8 don't believe this is a serious thing. There's --  
9 I've said this before as other meetings and I'll  
10 repeat it again today, there's nothing good about  
11 having any amount of jet fuel on the aquifer or in the  
12 ground, and so it's not our intent to make light of  
13 this in any way or by suggesting that the volume is  
14 not a critical planning factor for us to suggest that  
15 we don't police believe that this is serious.

16           The challenge is, is that it's not a primary  
17 factor that assists us in characterizing, evaluating  
18 or treating the contaminants, and it's also on a safe  
19 indicator -- it's not an indicator of safe drinking  
20 water. We won't put a gauge on our extraction  
21 methods, whether that's SVE or pump and treat, and  
22 when it reaches a certain amount, 24 million gallons  
23 or whatever that may be say, "We're done," because we  
24 can't. Because the final remedy and the safe drink  
25 water is not dependent on volume; it's dependent on a

1 measured legal concentration level. And so although  
2 we certainly understand the seriousness that goes with  
3 a large volume of the fuel being underground, the Rio  
4 Bravo we're not dwelling on the volume is it does not  
5 assist us in the remediation in any way. It's the  
6 concentration of contaminants in the vadose soil,  
7 which is essentially the soil from the surface to the  
8 ground water. The LNAPL and the dissolve phase that  
9 can be directly measured. Those contaminant levels  
10 can be measured, they are measured in all of our what  
11 amounts to now 213 monitoring wells, both soil and  
12 groundwater.

13           These concentration measurements are what  
14 are necessary to characterize, evaluate and treat the  
15 contaminants. Specific maximum contaminant levels  
16 that you've seen presented in the NMED briefing are  
17 established by law. It is those levels that will  
18 determine no further action, not an estimate of what  
19 fuel has been removed because those are the only  
20 things that can be measured and that is what the legal  
21 requirement is.

22           And so, again, we're not making light of the  
23 amount of fuel that may have leaked. The challenge  
24 for us is that that does not -- it doesn't assist us  
25 in any way in speeding this up or providing

1 characterization information that's necessary for how  
2 we take action. It's the concentration of the  
3 contaminants, and so that's where our focus will  
4 always be and it is the only thing that we can  
5 actually measure. We can't measure the volume.

6           Regarding contingency planning, we plan an  
7 expect interim and final remedy to ensure continued  
8 safe drinking water for Ridgecrest, Kirtland and VA  
9 wells. Nonetheless, water providers, which is the  
10 water utility authority, Kirtland Air Force Base and  
11 the VA should conduct what-if contingency planning, we  
12 should share that discussion that addresses potential  
13 worst-case scenarios what I've put in quotes in  
14 italics there is the direct quote from -- this is the  
15 secretary of the Air Force, Yonkers, regarding the Air  
16 Force commitment. If the contaminants from the plume  
17 enter the drinking water and make it unsafe, the Air  
18 Force will assist the city and the water utility  
19 authority in providing safe drinking water until the  
20 situation can be remedied.

21           Again, our intent is never to be there. It  
22 is also difficult to speak about specifics when we  
23 don't know yet what may be required for contingency.  
24 It's also not possible under law and the  
25 anti-deficient act for any federal employee to make an

1 open-ended commitment for funding other than to say  
2 that we making the commit to ensure that there's safe  
3 drinking water. So it's difficult to say what the  
4 required funding is because we don't know yet what the  
5 contingency planning requirements will be either for  
6 the water utility authority or for Kirtland Air Force  
7 Base or the VA, and those are the discussions that  
8 we're beginning.

9           Colonel Kubinic, the installation Mark  
10 Sanchez, your executive director. I've met with a  
11 John Stomp recently. We plan to begin or continue  
12 those discussions in earnest so that we have a  
13 contingency plan that ensures the health and human  
14 welfare of those that will -- that drink from these  
15 production wells. And they are Kirtland Air Force  
16 Base, residents and employees also drink from the well  
17 that is actually the closest downgradient from the  
18 contamination, and so we are certainly motivated and  
19 most of us live in the community and drink the water  
20 utility authority water that is provided.

21           We fully agree, and I think most would -- I  
22 would hope would agree that we've been sincere about  
23 public participation. We think it's a necessary part  
24 of the contingency planning. We believe it's a  
25 necessary part of how we move forward in this. We'll



1 continue to be work with all the stakeholders, and  
2 there are many. Yes, the New Mexico Department  
3 Environment is the regulatory authority but we have  
4 always recognized and is the reason that we initiated  
5 the stakeholder task force which includes six other  
6 entities, which include the water utility authority.  
7 We recognize the importance of the water utility  
8 authority, we are recognize your obligation to provide  
9 clean water, safe water to your ratepayers, and we  
10 understand the threat that the plume can cause it it's  
11 not properly remediated. So we do not underestimate  
12 or minimalize the water utility authority  
13 participation, we have not, since the beginning, and  
14 we will continue to do that modify it as necessary.

15           There's one -- I'm going to go to one backup  
16 slide, if you'll indulge me, on SVEs, because it may  
17 help a little bit in understanding I think sometimes  
18 what's said about an SVE can't remove fuel from the  
19 ground. Now, I'm not an engineer, I'm not a  
20 geologist, I'm not a hydrologist, so the good news is  
21 I can't get too technical on this. So I'll do my best  
22 and then Tom or Jim will rush up here and save me from  
23 myself if I say something that's not correct.

24           What happens is that the LNAPL, just as if  
25 you had a can ol gas in your garage and left the cap

1 off, the LNAPL something volatilizes. The fuel is a  
2 volatile substance, so it evaporates. That means it's  
3 losing volume from the LNAPL as it turns into vapor.  
4 SVE system then extracts and burns that vapor. The  
5 placement -- knowing where the thickest part of the  
6 plume was important because we needed to ensure that  
7 we got these initial soil vapor extraction wells over  
8 the thickest participant of the plume so that you have  
9 the greatest saturation of vapors from the greatest  
10 concentration and thickness of fuel.

11 And so it is sucking liquid LNAPL out of the  
12 ground through some sort of piping and burning it?  
13 No. What it's doing is taking the vapor that's coming  
14 off that LNAPL and burning it. And as -- it will  
15 continue to volatilize. The fuel will not stop  
16 volatilizing. It will continue to be evaporate, and  
17 so by burning the vapors, and as you do that at a  
18 larger volume in critical places, you do remove LNAPL  
19 through the SVE system.

20 And I guess maybe the best analogy, as least  
21 for me to understand that is, when you operate your  
22 car, there's not liquid fuel going into the cylinder  
23 that's running your car. It vaporizes and volatilizes  
24 in the cylinder, it burns and the car runs. But  
25 unless you put more fuel in your tank, your fuel gage

1 is going to go down. And so the same principle  
2 applies to soil vapor extraction in terms of its  
3 ability to extract LNAPL. So soil vapor extraction  
4 will remove LNAPL, that vapor does not replenish  
5 itself in the LNAPL. It's burned off and so the  
6 volume can be brought down.

7 So soil vapor extraction is, and that's a  
8 simple -- did I get it right? Okay. From a very lay  
9 mind in understanding what this does. Subject to your  
10 questions, that's the end of my presentation.

11 CHAIRMAN SANCHEZ: Commissioner Hart Stebbins  
12 and then Councillor Garduno.

13 COMMISSIONER HART STEBBINS: Thank you, Mr.  
14 Chairman.

15 And I want to thank both the representatives  
16 of Air Force and NMED for being here tonight. Both of  
17 you have come to talk to this body more than once in  
18 the past, but we've never had you here at the same  
19 time, so this is particularly helpful. And I think  
20 it's -- and it will be helpful I think in answer this  
21 question because you have said a couple times that the  
22 Air Force engaged Shaw Environmental on a  
23 performance-based contract. And I guess the only  
24 thing I've been able to find is a draft of that  
25 contract and the performance matrix that are contained

1 in that. And one of those performance measures is  
2 within a year from notice to proceed, which would be  
3 September of 2010, was complete installation of an  
4 interim measure. And it's very specific, that interim  
5 measure to contain the LNAPL footprint so it does  
6 expand or move.

7 And I'm wondering, so we're now nearly nine  
8 months past that deadline, that benchmark, and I know  
9 Mr. Berardinelli you and I have talked about this, it  
10 has something to do with the interplay between  
11 environment department and Kirtland. Can you explain  
12 -- so we're nine months past that benchmark, how close  
13 are we to meeting that?

14 MR. BERARDINELLI: As far as the contractual  
15 requirement that the performance-based contractor has,  
16 they met the requirement because they made the  
17 proposal for that LNAPL containment system is December  
18 of 2010. We can't proceed with anything in this  
19 remediation, whether it's a method of  
20 characterization, an interim remediation without the  
21 approval of the New Mexico Environment. And it's a  
22 checks and balance.

23 I think what you're getting at, and as more  
24 information becomes available, there are differences  
25 of opinion on what will work and what will not work

1 and whether something like the LNAPL containment will  
2 be effective as a containment system. The Air Force  
3 believes so. We proposed it. The New Mexico  
4 Environment approved the drilling of the well, but  
5 stopped short there. And I won't speak for them on  
6 their motivation for that, Jim can do that, but it  
7 does amount to a difference of opinion. In the end,  
8 differences of opinion are solved in this matter by  
9 the regulatory authority. And so if the regulatory  
10 authority directs us to do something or not to do  
11 something, regardless of what the contract says, that  
12 must be what we comply with. So in the end, we are  
13 going to comply with the direction of the New Mexico  
14 Environment Department. The contractual measure  
15 really becomes more of an internal Air Force mechanism  
16 that determines whether a certain action is part of  
17 the initial contract or requires a task -- a separate  
18 task for modification.

19 What we do isn't really dependent on that  
20 mechanism. We will propose through that mechanism,  
21 but we will do that ultimately is approved by the New  
22 Mexico Environment Department. And Mr. Chair and  
23 Commissioner Hart Stebbins, as you're aware in the  
24 many venues that we present this, and I've been there  
25 where we have five highly qualified Ph.D. hydrologists

1 and they will each give five different opinions on how  
2 to approach this, we have our contractor so that's the  
3 opinion we begin with. We listen to the rest of the  
4 stakeholders, we listen to the public. The contractor  
5 is with us when they're there. They factor that into  
6 what they provide, but then ultimately we execute what  
7 is approved by the New Mexico Environment Department.

8 I'll let Jim speak to that.

9 DR. DAVIS: Thank you. It's a really good  
10 question. I really appreciate it Mr. Chair and  
11 Commissioner Hart Stebbins.

12 What Tom just said is in fact true. There  
13 is a difference of opinion. What I said earlier  
14 during my presentation is we don't want to make the  
15 situation worse. I'm going to use my hands, Mr.  
16 Chairman. I don't have a graphic to help visualize  
17 this.

18 You've heard us talk of the toe of the  
19 plume. Consider my wrist to be the heel, my fingers  
20 to be the toe. The thickest part of the plume -- it  
21 doesn't show thickness. The thickest part of the  
22 plume is towards the heel. The extraction well is  
23 placed approximately here. We've learned in the past,  
24 unfortunately, quite frankly, by if you put an  
25 extraction well at the toe of the plume and you begin

1 to vigorously pump the extraction well, you have the  
2 potential of changing the dynamic, the movement of the  
3 plume and causing it to move much more rapidly in that  
4 direction and smear that contamination through the  
5 subsurface.

6           Currently, the only effect that is operating  
7 on the plume other than the remediation strategies is  
8 the movement of the regional groundwater aquifer and  
9 potentially the cone of depression created by pumping  
10 at the Ridgecrest well field, as well as Kirtland and  
11 VA wells. So our concern is, we know where the  
12 thickest portion of the plume is, that's target, if  
13 you will, the center of the target, that's where you  
14 want to remove the contamination from, that's where  
15 the soil vapor extraction wells are placed. If you  
16 pump vigorously at the front of the plume, there is  
17 the potential that you will cause that to flatten out  
18 and move through the subsurface much more rapidly than  
19 it otherwise would. Which is an example of making it  
20 worse that it currently is.

21           Now, having said that, we have approved, the  
22 well has been drilled, it's not yet been developed, it  
23 needs to be developed, we want that in place so that  
24 as the data come in from the soil vapor extraction  
25 effort, if those data demonstrate that we're not

1 achieving what we think we are going to achieve, then  
2 we already have this interceptor well -- again, my  
3 term, no one else's -- in place so that if we need to  
4 use it, we can. But initially, we do not want to use  
5 it because we're concerned about making the situation  
6 worse rather than improving it.

7 COMMISSIONER HART STEBBINS: Thank you,  
8 Mr. Davis. I appreciate that.

9 And I think that this is part of the  
10 frustration that I think some of us feel. You know,  
11 we look at the contract. You can assume that those  
12 performance measures were established with some sense  
13 that they were realistic, and yet, we see months go by  
14 without those standards having been met. And  
15 understand, but I hope you understand from our  
16 perspective, too, that when those benchmarks are not  
17 met, we feel pressure from the public and the  
18 community to explain.

19 MR. BERARDINELLI: Mr. Chair, Commissioner Hart  
20 Stebbins, I will say that I share in your frustration.  
21 At the proposal of the contract, that was based on the  
22 best information we knew at the time, which was prior  
23 to the extensive data that we have today from the 113  
24 monitoring wells that were installed as part of the  
25 contractual requirement. I think that the contractual



1 requirements in terms of the performance-based  
2 contract are open enough that we respond to new data  
3 and new information. And as Dr. Davis said, the  
4 decision has been made at this point to hold off on an  
5 actual pump and treat system at the toe of the plume.  
6 The good news I think in terms of our collaboration  
7 and discussion -- and this also included the other  
8 stakeholders, including the water utility authority,  
9 was okay, but let's be ready. Even, you know -- and  
10 we have to agree to disagree with the regulator once  
11 they make the decision because that is the last word  
12 regardless of what the contract says.

13           But what I think was good out of this  
14 situation is we said, well, okay, we're not going to  
15 pump, but there's no harm in putting that well in, in  
16 developing that well and being prepared so that as we  
17 see the results of the initial operation of this  
18 thermal oxidation, this larger scale SVE unit, if --  
19 it will become obvious, you know, who was right or who  
20 had a better estimate of this, and then we will react  
21 to that.

22           If the containment system is not needed, I  
23 think that's great, because we don't want to have to  
24 do pump and treat and have a waste stream if we don't  
25 have to. So that will be great. If the thought after

1 the we see the behavior of the plume, after this  
2 larger scale system is in operation, then we do have  
3 the option of doing that. And, again, those are  
4 interim measures. This doesn't preclude us from doing  
5 other measures that maybe we didn't plan on based on  
6 the information we had at the time that as we get  
7 these additional monitoring wells in and as we see the  
8 behavior of the plume to this interim remediation, it  
9 doesn't prevent us, under the performance-based  
10 contact -- in fact, under the performance-based  
11 contract, it allows us that flexibility to really do  
12 what is necessary based on the technology that's  
13 available and ultimately what the regulator will  
14 approve to respond to how the plume behaves.

15           However, there's no way -- there's just no  
16 way to do that other than this iterative process of to  
17 implement an action and then evaluate it and then  
18 respond to it. I certainly -- I understand the  
19 frustration of the public and the board on, you know,  
20 why can't this move faster, or, you know, I wish we  
21 knew everything we know today back in 1999 and we  
22 would have started that to begin with, but we didn't,  
23 and it has been through this iterative process. And  
24 we will continue to respond in that way to remediate  
25 the plume. But it stills leave us options.

1           COMMISSIONER HART STEBBINS: Thank you. And I  
2 guess -- let me just ask you about one other  
3 performance measure.

4           Benchmark was by September 2013, containment  
5 of the groundwater plume. Any possibility that that  
6 is realistic.

7           MR. BERARDINELLI: We'll know soon enough after  
8 the -- we can see the results of the soil vapor  
9 extraction system. Again, those dates are based on  
10 our best estimate of what we knew at the time that the  
11 contract was submitted, but it doesn't restrict the  
12 contract as we get new information.

13          COMMISSIONER HART STEBBINS: Because I'm  
14 assuming when it says containment of groundwater  
15 plume, that would the dissolve phase?

16          MR. BERARDINELLI: No. Essentially, the plume  
17 exists in three states: The LNAPL, which is a fuel  
18 that is on the water table; the vapor phase, which is  
19 throughout the vadose zone and above where that LNAPL  
20 phase the dissolve phase. The containment system  
21 refers to the LNAPL plume. It's the LNAPL plume which  
22 feeds the dissolve phase.

23                 The only way that -- technologically today  
24 to address the dissolve phase is to go after those  
25 other two phases. It isn't possible to isolate the

1 dissolve -- it isn't possible to employ three  
2 different methods against those three different  
3 states. There's the dissolve phase is such small  
4 quantity, you would have to pump millions and millions  
5 of gallons and try to get after that dissolve phase  
6 and still may not be able to do that. So by  
7 remediating what is a vapor state and the LNAPL, you  
8 choke off the supply to that dissolve phase, and then  
9 it attenuates, dilutes, essentially, ultimately so  
10 that you are not over a maximum contaminant level.  
11 And so the containment was focused on just the LNAPL  
12 phase in an attempt to have is a cutoff to where it  
13 leaches into the dissolve phase.

14 COUNCILLOR O'MALLEY: All right. Thank you very  
15 much for being here tonight, for your answers. I hope  
16 it's possible if we have further questions, we can  
17 submit them in writing.

18 MR. BERARDINELLI: Absolutely.

19 COMMISSIONER HART STEBBINS: Okay. Thank you  
20 very much.

21 Thank you, Mr. Chairman.

22 CHAIRMAN SANCHEZ: Thank you.

23 Councillor Garduno.

24 COUNCILLOR GARDUNO: Thank you, Mr. Chair.

25 Mr. Berardinelli, it goes without saying,

1 I've told you in the past, thank you very much for all  
2 the openness that you've shown from the first day that  
3 we talked about it. But I'm sure that you understand  
4 that these questions need to be asked or else both  
5 neither you nor I would feel like progress is being  
6 made.

7 That said, I know a lot has been said both  
8 by yourself and Mr. Davis from NMED that vapor  
9 extraction is not the only method that will be  
10 employed or is contemplated, but I'm curious as to  
11 what other technologies have you looked at, are there  
12 other technologies that you have explored, or how  
13 imminent are we to the use of them so that we can  
14 start looking at those three phases, if you will, to  
15 ameliorated. And also how soon it's going to happen.

16 MR. BERARDINELLI: Well, soil vapor extraction  
17 is not the only technology that we have explored and  
18 is part of our, as I mentioned to Commissioner Hart  
19 Stebbins, the LNAPL containment system is a hydraulic  
20 pump and treat system. The challenge with a hydraulic  
21 pump and treat system is, you are generating a waste  
22 stream in terms of contaminated water that has to be  
23 treated, and then you have to find a way to discharge  
24 the water. That may be necessary, and if it's  
25 necessary, what we believe it is part of a containment

1 that's been proposed.

2           We've been asked to holed off on that until  
3 we see the effectiveness of the larger scale SVE  
4 system. But that pump and treat system can be put  
5 into effect relatively rapidly and reason we drill  
6 that well was to shorten that time span. You also  
7 heard Dr. Davis mention in well or in ground stripping  
8 or sparging, which is an another technology that we're  
9 looking at, the contractor is looking at right now,  
10 that could potentially be used as a containment system  
11 also, where it actually treats the contaminant in the  
12 well below the groundwater and there it doesn't create  
13 a waste stream.

14           So we are very interested in that, as well.  
15 And so at least those three technologies are the only  
16 ones right now that we are aware of that exists. In  
17 addition to those installed technologies, there is  
18 bioremediation. Although bioremediation is not as  
19 effective against EDB, it has been very effective  
20 against the BTEX compounds, and because of the  
21 effectiveness of that bioremediation, those compounds  
22 and have not migrated.

23           So while these manmade, if you will,  
24 remediation actions are occurring, there is also the  
25 bioremediation, and that is also enhanced when you're

1 pumping all that air into the ground with this larger  
2 scale SVE because you're getting more oxygen down  
3 there well. So you have those technologies and the  
4 potential for bioremediation or the continued use of  
5 bioremediation. So it's more than just SVE, it always  
6 has been more than SVE.

7 COUNCILLOR GARDUNO: And I understand that.

8 Mr. Chair.

9 Mr. Berardinelli, if we were to have to go  
10 to pump and treat, and I'm looking now at the quote --  
11 statement made by Air Force -- is he a general --  
12 Yonkers in assurance to Mayor Berry that things would  
13 be done so that safe water would be supplied to  
14 Albuquerque or the area or whatever. Who's paying for  
15 that?

16 MR. BERARDINELLI: Secretary Yonkers reiterated  
17 that in the recent letter that he send both to the  
18 board and to Senators Bingaman and Udall. Again, I  
19 have to be careful -- I can't make an open-ended  
20 commitment that says we'll pay for things that we  
21 don't know yet what's required. Once we know what the  
22 contingency plans specifically will be and we know  
23 what's required, we then will be able to determine  
24 what Air Force funding can be used for that.

25 I think somebody mentioned before that

1 Kirtland's, you know, money is going to run out on  
2 this. Well, this has been a Air Force effort from the  
3 beginning, so it's not just dependent on what the  
4 Kirtland budget is. The initial \$50 million  
5 investment in the contract is the beginning. It's not  
6 necessarily the end if it takes more to complete the  
7 remediation.

8 As far as the contingency planning goes, I  
9 would say, Councillor Garduno, although there will  
10 certainly be an Air Force participation and  
11 contribution to that, it's premature to say exactly  
12 how much or what we would say until we know exactly  
13 what that contingency plan requires.

14 COUNCILLOR GARDUNO: Mr. Chair.

15 Mr. Berardinelli, but a good statement would  
16 be that the Albuquerque Water Authority rate payers  
17 would not be paying for it.

18 MR. BERARDINELLI: Mr. Chairman, Councillor  
19 Garduno, I can't speak to that. All I can say right  
20 now is the commitment which you have from the  
21 assistant secretary of the Air Force, which is on the  
22 slide that I have up now.

23 COUNCILLOR GARDUNO: And if I could, one other  
24 thing that came up in the discussion was -- or has  
25 come up in past is that since we know don't know



1 whether it's a million at the outset, 8 million  
2 sometime later and now 24 million that we shouldn't  
3 be talking about this because it's just going to  
4 unduly alarm the public, and that's been said a number  
5 of times by different folks.

6 Do you think that?

7 MR. BERARDINELLI: Well, I haven't said that,  
8 Mr. Chair, Councillor Garduno, and you heard me  
9 reiterate it tonight. The Air Force isn't going to  
10 dispute a specific amount. And we believe that this  
11 plume is serious. As I said before, there's nothing  
12 good about having jet fuel on the water table in  
13 proximity to production wells.

14 So I'm not making light of that at all; this  
15 is serious. My only point is that the volume  
16 discussion, although interesting, and is an estimate  
17 of what may be there, from our standpoint, it doesn't  
18 help us to remediate the plume. There's no data in  
19 terms operate 24 million, 8 million or whatever it may  
20 be that would then drive us to say, well, we'll, do A  
21 instead of B because it's 24 million versus 16  
22 million. It just doesn't drive the decisions we make  
23 and how we measure success. Success will be measured  
24 on this by getting the contaminant levels low, the  
25 legal maximum contaminant levels. And so we don't

1 necessarily stop at a specific volume.

2           So I'm not making light of it. It's just  
3 from a -- contributing to what we do, it doesn't  
4 provide us any information that informs a technology,  
5 a method or a step that we take.

6           COUNCILLOR GARDUNO: And, Mr. Chair, if I may  
7 continue just for a second.

8           Mr. Davis, I don't know if you have the  
9 answer to this, but it seems like NMED was going at a  
10 certain rate of requiring, asking, working with the  
11 Kirtland Air Force Base back in 2008, '9 and then in  
12 2010 there was a change. And I don't know if that was  
13 the time that you came in as director or --

14           DR. DAVIS: Mr. Chair, Commissioner Garduno, no  
15 I've been on this job for a little over a year.

16           COUNCILLOR GARDUNO: So there was a lag time.  
17 And I don't -- I hesitate to use the word lag, but  
18 there was a time where it seemed like NMED stepped  
19 back. And I don't know what the circumstance, and be  
20 that were there might be able to remember.

21           DR. DAVIS: Well, I can speak to it, Mr.  
22 Chairman, Commissioner Garduno, no, the environment  
23 has never stepped back. What we did in 2010 is we  
24 shifted this from the groundwater quality bureau,  
25 which did not have oversight of the permit, to the

1 hazardous waste bureau, because the enforcement  
2 action, the authority to do this is contained under  
3 the permit that they have, which is administered by  
4 the hazardous waste bureau. So the shift that the  
5 environment department made was from the groundwater  
6 quality bureau over to the hazardous waste bureau so  
7 that the regulatory authority was in line with the  
8 effort.

9 COUNCILLOR GARDUNO: And there was a qualitative  
10 change, taking it from groundwater protection to  
11 hazardous?

12 DR. DAVIS: Mr. Chair, Commissioner, I'm not  
13 quite sure I understand what you mean by  
14 "qualitative."

15 COUNCILLOR GARDUNO: Well, just the words, water  
16 protection --

17 DR. DAVIS: Yeah, the answer --

18 COUNCILLOR GARDUNO: -- as opposed to hazardous.

19 DR. DAVIS: The answer is no. There has been no  
20 change in terms of the approach that the environment  
21 department is using. What we did was shift from one  
22 bureau to another to align the effort with the  
23 regulatory authority that we have. So the regulator  
24 authority is expressed in the hazardous waste permit.  
25 Accordingly, the hazardous waste bureau, under the

1 authority they have to implement and require action by  
2 -- under that permit, that authority is now in line  
3 with the project. The groundwater quality bureau does  
4 not administer the hazardous waste permit, does not  
5 have the authority. They operate under a ditch set of  
6 regulations. So we aligned the action of the agency  
7 with the appropriate regulator authority.

8 COUNCILLOR GARDUNO: And now we -- or you fell  
9 comfortable that this is the right place for this  
10 investigation to be at, the hazardous?

11 DR. DAVIS: Yes, we do. Let me say something  
12 else. Approximately a year ago right now, we expanded  
13 the technical basis of our effort by including a  
14 petroleum storage tank bureau, which has regulatory  
15 authority or oversight in this circumstance whatsoever  
16 but they have technical and scientific expertise, and  
17 so we formed an interdisciplinary team that has  
18 people from the petroleum storage tank bureau, from  
19 the hazardous waste bureau, from the groundwater  
20 bureau, drinking water bureau, as needed, as well as  
21 other stakeholders, again, staff of this board, to  
22 help us address this in the best way possible. So  
23 we've actually got what I would characterize as an  
24 interdisciplinary team involved in this. But the  
25 regulatory authority, our authority to require action,

1 comes through the hazardous waste permit.  
2 Accordingly, the hazardous waste bureau is in charge  
3 of this.

4 COUNCILLOR GARDUNO: And --

5 CHAIRMAN SANCHEZ: Excuse me, Councillor  
6 Garduno, I'm going to invoke the ten-minute rule,  
7 because Commissioner De La Cruz wants to ask  
8 questions, then we can go back and ask any additional  
9 questions.

10 COUNCILLOR GARDUNO: That would be fine with me.

11 CHAIRMAN SANCHEZ: Commissioner De La Cruz.

12 COMMISSIONER DE LA CRUZ: Thank you, Mr.  
13 Chairman.

14 Mr. Berardinelli -- I hope I said that  
15 correctly.

16 MR. BERARDINELLI: Yes, sir.

17 COMMISSIONER DE LA CRUZ: This is rhetorical,  
18 but who do you work for.

19 MR. BERARDINELLI: General Harencak, he  
20 commander of the Air Force Nuclear Weapons Center is  
21 my commander.

22 COMMISSIONER DE LA CRUZ: Do you work for  
23 Kirtland Air Force Base.

24 MR. BERARDINELLI: I recently moved from working  
25 for the installation commander to the Air Force

1 Nuclear Weapons Center. But I've stayed involved in  
2 assisting with this effort.

3 COMMISSIONER DE LA CRUZ: And so the dialogue  
4 that you're involved in tonight and things that you  
5 hear from the public and from elected officials, you  
6 take back to your bos.

7 MR. BERARDINELLI: Oh, absolutely, sir. And  
8 more than just Kirtland Air Force Base. Every Friday  
9 -- to give you an idea of the interest in this by Air  
10 Force leadership, every Friday at 1 o'clock, I, my  
11 leadership, various agencies around the Air Force are  
12 engaged in a teleconference for about an hour with  
13 Secretary Yonkers' office, with the assistant  
14 secretary of the Air Force.

15 And we go over everything that we have done  
16 that week, what we are still doing. And so  
17 absolutely, Mr. Chair, Commissioner De La Cruz,  
18 Secretary Yonkers, all the way to Secretary Yonkers at  
19 the highest levels of the Air Force, they know exactly  
20 what's going on, the concern.

21 Secretary Yonkers also was here last  
22 November, and it won't be the last time that he's here  
23 and attended a leadership level meeting of our  
24 stakeholders and so he had the opportunity here  
25 directly from members of the executive staff of the

1 water utility authority, Commissioner Hart Stebbins  
2 was there. The mayor met individually with Secretary  
3 Yonkers in December.

4 So the message, I can assure you, Mr. Chair,  
5 Commissioner De La Cruz, gets to not only my  
6 leadership here at Kirtland Air Force Base but to the  
7 highest levels of the United States Air Force, and  
8 they are very much concerned and involved in what  
9 we're doing with this on a weekly basis at least.

10 COMMISSIONER DE LA CRUZ: Now, you know, every  
11 time we have one of these meetings, we have good  
12 people, members of the public that come, take time out  
13 of their day to encourage us, to go goad us, to prod  
14 us to some sort of action.

15 Now, that's been a bit of a discussion here  
16 at this dais. But how can we help you? Is there  
17 something that we need to do? We've talked about some  
18 resolutions this even. You're heard about that  
19 earlier. What can we do to help.

20 MR. BERARDINELLI: Mr. Chair, Commissioner De La  
21 Cruz, I think you already are. Your staff, your  
22 executive director, Mark Sanchez, John Stomp and other  
23 members of the staff have been part of our  
24 stakeholders task force. We've had some individual  
25 meetings with Mark and John and have offered to do

1 additional meetings specifically on the contingency  
2 planning.

3 We've been in discussions with each other  
4 recently on sharing with each other what the Kirtland  
5 contingency plans are, what the water utility  
6 authority contingency plans will be so that we can  
7 address some of the things that were addressed in the  
8 resolution.

9 So with or without the resolution, Kirtland  
10 Air Force Base will communicate and work with the  
11 water utility authority and respond to the public's  
12 concern. We'll continue to do our multiple public  
13 venues and updates, meetings with the homeowners  
14 associations and neighborhood associations. So  
15 regardless of the resolutions -- I think the one  
16 aspect of the resolution that's possibly the most  
17 necessary is the empowerment of the executive director  
18 to be able to represent the board. And so I think  
19 that aspect of it I think would be necessary. But  
20 regardless of whether or which resolutions are passed,  
21 we will continue to work with you, your staff and the  
22 public and the environmental department as we move  
23 forward.

24 COMMISSIONER DE LA CRUZ: Now, it's clear to  
25 everyone I believe by this point that this is a



1 complex issue; that there's technology that is  
2 available, but where do you start, how soon do you  
3 start, where do you implement is still a big question.  
4 And that being said, it also seems that we have to  
5 absolutely understand the nature, scope of the  
6 problem, and that continues to move forward. That  
7 understanding is essential to the ultimate remediation  
8 or remedy.

9 And I believe that we have to have that  
10 contingency plan in place in the event that the plume  
11 moves towards those wells. And so I think that's  
12 absolutely critical and I appreciate the fact that  
13 Kirtland is willing to make sure that we're whole as  
14 we move forward in terms of providing water to the  
15 citizenry.

16 I do have a question for Mr. Davis.

17 Mr. Davis, this is going to sound rhetorical  
18 as well. Why are you involved?

19 DR. DAVIS: Mr. Chair, Commissioner De La Cruz,  
20 we are the regulatory authority. That's why we're  
21 involved.

22 COMMISSIONER DE LA CRUZ: Did somebody from this  
23 dais call you up on the phone and say, "Hey, Mr.  
24 Davis, can you come down here and" -- "we've got a  
25 problem. Can you check it out?"

1 DR. DAVIS: Mr. Chair, Commissioner De La Cruz,  
2 no, at least not to my knowledge. When the release  
3 was discovered, it was reported to us, that was the  
4 appropriate action, and we've been involved ever  
5 since.

6 COMMISSIONER DE LA CRUZ: Would you say that  
7 your efforts are vigorous?

8 DR. DAVIS: Mr. Chair, Commissioner De La Cruz,  
9 I would say that our efforts are vigorous, yes.

10 COMMISSIONER DE LA CRUZ: Are they made so more  
11 because we're talking to you tonight, or are they  
12 going to continue to be have vigorous regardless?

13 DR. DAVIS: Mr. Chair, Commissioner De La Cruz,  
14 they would continue to be vigorous regardless. But it  
15 is important for elected officials to be actively  
16 engaged in these processes because that's the way our  
17 system of government works.

18 And so we appreciate your involvement, we  
19 appreciate your concern, we quietly expect it's,  
20 that's what you're supposed to do. But that's what  
21 we're supposed to do also. So we would be on this,  
22 but I like the fact that we're also being pushed. I  
23 think that's way it's supposed to work.

24 COMMISSIONER DE LA CRUZ: Good. I'm glad to  
25 here that. Well, I can share with you, I know you're

1 not here for every meeting, but we're talking about it  
2 every meeting, and we're going to continue to.

3 DR. DAVIS: Good.

4 COMMISSIONER DE LA CRUZ: To point to all of  
5 this though is that much effort is being made. I  
6 think it's important for members of the public to  
7 understand that. And that's why I'm sounding a bit  
8 rhetorical in some of these questions.

9 We take it serious, we're going to continue  
10 to work towards that, we're going to make sure that we  
11 have contingency plans. We obviously appreciate what  
12 you have to do as part of your job that's necessary  
13 and as well as what the base is doing as well. And so  
14 we're going to continue to move forward and continue  
15 to take this as seriously as we have been. And  
16 hopefully, we will eventually get to the point where  
17 we have this problem fixed.

18 And so I appreciate also that staff has been  
19 working and has been in concert with all of the  
20 players involved so that I hope that the public can  
21 take away that the staff, state staff and the base  
22 staff and all the elected officials, including the  
23 mayor and the commissioners and councillors are very  
24 well engaged. Because sometimes I get the sense that  
25 the public thinks that isn't happening, and that's

1     unfortunate, because it is happening. We can't wave  
2     an magic wand and all of a sudden everything becomes  
3     okay. It just takes a lot of effort. This is a  
4     problem that was created over many, many years and  
5     it's problem that's going to take years to fix as  
6     well. But as Mr. Davis said earlier, you want to do  
7     it well, you want to be thoughtful about it and not  
8     make the problem worse.

9             And so I do ask for patience from the  
10    public, and not to unduly alarm the public, but that  
11    we are working toward it, but we need to do it in a  
12    way that's going to be a real solution and not  
13    something that's temporary.

14            Thank you, Mr. Chairman.

15            CHAIRMAN SANCHEZ: Thank you.

16            Councillor Garduno.

17            COUNCILLOR GARDUNO: Justice under nine minutes  
18    and 50 seconds. Somebody must have an internal timer.

19            Let me take 5 seconds of your time,  
20    Mr. Berardinelli again to thank you for all the work  
21    you do to let us know what's happening. And in no way  
22    has anybody tried to impugn the work that the Air  
23    Force has done. It is one of those things where we  
24    need work to be done, work to be completed, and I  
25    don't think anyone has intimated, at least that I've

1 heard, that the Air Force is evil, that Kirtland Air  
2 Force Base is out to get us, or anything like that.  
3 And that's I think what some people are trying to, you  
4 know, paint around this pick. If anything, people are  
5 worried. People need to be paid attention to.

6 And I know that a lot has been made about  
7 who people work for. Ultimately, all of us both the  
8 Air Force and up here, work for the public. And  
9 that's who's asking the questions. And for anybody to  
10 then try to make it sound like if you don't work for  
11 the general or the colonel or the commander, that you  
12 therefore have to reason to be making these -- or at  
13 least asking these questions. And I propose to you  
14 again, thank you. Thank you for your openness and I  
15 will continue asking questions.

16 Thank you, Mr. Chair.

17 CHAIRMAN SANCHEZ: Thank you.

18 Again, I want to thank the New Mexico  
19 Environmental Department for coming down this evening  
20 and also representative from Kirtland Air Force Base.

21 Are there any other questions?

22 If there's no further business, this meeting  
23 is adjourned.

24 (Proceedings adjourned at 7:54 p.m.)

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1 STATE OF NEW MEXICO  
2 COUNTY OF BERNALILLO

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REPORTER'S CERTIFICATE

I, Kelli Gallegos, New Mexico Provisional Reporter, No. P-409, working under the direct supervision of Paul Baca, NM CCR #112, do hereby certify that I reported the foregoing proceedings in stenographic shorthand and the pages are a true and correct transcript of those proceedings and were reduced to printed form under my direct supervision.

I FURTHER CERTIFY that I am neither employed by nor related to any of the parties or attorneys in this matter and that I have no interest in the final disposition of this matter.

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