JUN 27 2007

TRANSCRIPT OF CSMRI SITE REMEDIATION

OPEN HOUSE AND PUBLIC MEETING

May 30, 2007

LISA DELEO
BRUNO REPORTING COMPANY, INC.
(303) 831-1667

(The CSMRI meeting commenced at 7:00 p.m.)

P R O C E E D I N G S

LINN HAVELICK: Thank you all for coming. My name is Linn Havelick, and this is the meeting for the CSMRI site cleanup to -- to look for public comment and to request public comment in regard to our site investigation and pose the cleanup plan. The -- I would like to thank the people that have shown up.

We have some neighbors of the site. We have a representative from one of the respective landfills that we're looking at, along with one of the representatives from one of the PRPs that are involved in site and several members of the engineering staff that has worked on the investigation and study report that we just published.

The -- I thought I would -- I thought I would spend a few minutes to give -- give you a little background about what -- what has happened at the site and -- and what we've accomplished in the past couple of years and then what we're planning on doing before I open it up for public comment. And there's -- there have been a tremendous number of previous investigations and work done at the site.

In the yellow area on the slide the -- is the area that the EPA cleaned up, the former pond area. And they excavated a large amount of contaminated material that was eventually stripped up. They cleaned up a large number of

1 drums. There were a number -- I think there were -- I want
2 to say 17 buildings on-site that were -- that had varying
3 degrees of contamination that was addressed and remediated.
4 Those were demolished and chipped off-site for
5 disposal. The -- the concrete foundations and footings of
6 most of the buildings and asphalt materials were taken off
7 the site and shipped off. The -- there have been a number of
8 investigations looking at soil contaminations and soil
9 impacts, and there has been several investigations looking at
10 a small area known as the Clay Pits area that is a little bit
11 closer to campus.
12 The Clay Pits area was -- was an area where in
13 the 19 -- early 1970s CSMRI had excavated sludge from the --
14 the tailings pond that they had on-site, and buried that in
15 that location up to the south and west of campus. And so
16 during the last two years, there have been additional
17 investigations of that area, as well; and we'll talk a little
18 bit about that later.
19 I think most of you that have been involved
20 with the site know that in 2004 we did some excavation work
21 there. And that -- that excavation work was based on -- on
22 a -- was based on an investigation technique where we drilled
23 a number of sample borings and -- and sampled and tried to
24 characterize the quantities and distribution of soils using
25 that kind of method.

1 Those -- that -- that method, once we started
2 excavation, proved to be of -- of limited value in terms of
3 predicting how -- how much material of various levels of
4 contamination we might -- we were going to find. So we
5 decided that we needed some additional investigation.
6 For the investigation that we have just now
7 completed, we used the same kind of technique the EPA had
8 used in investigating the former pond area, which was cleaned
9 up in the earlier 1990s. And that was to go in and excavate
10 soil until clean -- clean soil or subsoil was reached, and to
11 stockpile the excavated impact of soil.
12 We also looked at groundwater impacts, and --
13 and then we also did soil testing and analysis of the soils
14 that were left over -- that were left on the site after we
15 did the excavation to make sure that those soils would not
16 present a hazard. As we went through this process, we did a
17 number of things to -- to maintain the site.
18 We -- we did a lot of seeding to make sure
19 that -- that sufficient vegetation was on-site to keep --
20 keep the soil in place. We did a lot of erosion control
21 work; silt fences, put in ditches and water control to -- to
22 control both surface water entering the site or leaving the
23 site.
24 When we completed building our stockpiles of
25 soil -- excavated soil, we put a tactifier material on them

1 to -- to minimize the amount of dust that could be released
2 from that, and we also did a fair amount of testing of air
3 and water that was both entering and leaving the site.
4 Then -- then we needed to take all of the
5 information that we gathered during this excavation and
6 testing and monitoring, and put together a revised and
7 updated report. And I think Joe has a copy of that -- a hard
8 copy of it that's -- there's a lot of paper there
9 (indicating) that's also available on the web site.
10 And I think there's an agenda handout that has
11 that web site listed at the bottom of that -- of that
12 handout. And I think the web site is also listed on -- in
13 the proposed plan. That report looks at the alternatives for
14 remediation of the site that -- that were looked at in 2004,
15 and looks at them -- at those similar alternatives, but with
16 the updated information that we were able to gather from the
17 additional investigation that we did.
18 We looked at both alternatives that would have
19 involved leaving the impacted material on the site, and those
20 would have involved things like putting an engineered cap
21 over the site or building a containment cell. We also looked
22 at off-site alternatives and shipping material to -- to
23 appropriate landfills of that.
24 As -- as we went through that, I think that we
25 came to the same kind of conclusion that we did in 2004, and

1 that was that an off-site disposal of the material would
2 be -- would be the most effective and cost-effective approach
3 to remediation of the site. We also looked at, and
4 recommended, the maintenance of an environmental covenant for
5 the site to maintain -- or to require that any -- any
6 habitable structures that are built on the site in the future
7 have radon mitigation systems built along with the -- with
8 the systems.
9 We are looking at -- in the proposed plan --
10 that off-site disposal of stockpiled soils, and we have -- we
11 have two different stockpiles; one stockpile has about 200
12 yards of material that averages, I think, 46 picoCuries per
13 gram of Radium 226. And -- and that stockpile would be
14 shipped to one of two -- two landfills that we're looking at.
15 One would be possibly the Clean Harbors
16 Landfill at Last Chance, Colorado, on Highway 36 east of
17 Denver. And another alternative for that material would be
18 the U.S. Ecology Landfill in Idaho. For the larger
19 stockpile -- we have about 10,000 yards of soil -- and that
20 averages, I believe, 11 picoCuries per gram of Radium 226.
21 And we have obtained approval from the
22 Department of Health to dispose of that at the Allied
23 Waste -- BFI Foothills Landfill north of town. So that's
24 what we're looking at for that larger stockpile. We did --
25 we do still have a -- an access route up to U.S. Highway 6

that we would like to use to ship the material and take it directly from the site, out onto the highway, without having to go through the neighborhoods.

We'll have to continue to work with the Department of Transportation to get approval for that, but we are working on that. The -- once we pick up the soil stockpile and ship it, then we'll survey the remaining surfaces to make sure that we didn't leave any impactive soils behind.

We will look at a -- the imposition of a -- of that environmental covenant for radon gas control. And then we'll -- then we've also concluded that the Clay Pits area that we did a number of borings into an area where the materials had been buried, according to the records, and there's -- we found variable impact -- impactive material there that would have exceeded our -- our site cleanup standards.

In fact, the -- the materials that we found buried there would already meet those cleanup standards. So we're looking at releasing that area for -- for unrestricted use. The -- I just wanted to put into the record that we did have an open house here tonight with technical personnel from the site and project managers, and we had site drawings and maps available to -- to make sure that people had an opportunity to hear what was going on and ask questions.

And then we also wanted to have this public meeting and give people the opportunity to make oral comments and to get those comments onto the official record. And I think that that is really the point that we're at right now. And so I think I would like to invite anybody to make any comments or ask any questions that they would like to have on the record.

We will -- we will respond to any -- any questions that we receive or comments that we receive either tonight, orally, or later, in writing, by the time of closure of the comment period; which I -- is -- I think the formal comment period closes June 16th or 15th of this year.

Once we -- once we've evaluated those comments and responded to them, then we'll publish a record of decision that demonstrates -- or that -- that records the final approaches and ideas as to how we'll go with the next phase of this -- this work. So do I have any takers for public -- for oral comments?

JOHN YOUNG: I have a question.

LINN HAVELICK: Yes.

JOHN YOUNG: My name is John Young, 1205 12th Street, Golden. With regard to the covenants that you discussed for future use --

LINN HAVELICK: Yes.

JOHN YOUNG: -- and the requirement for radon

1 monitoring. Is the radon that you anticipate being monitored
2 a source from the CSMRI activity or is it just a concern
3 based on typical background of radon generation that would be
4 common to all the areas here?
5 LINN HAVELICK: I think that there's a
6 potential for both. There's -- there's our elevated -- there
7 are elevated concentrations of radium, which generates radon
8 gas, in some of the background for -- in some of the
9 formations present on the site. And I think it would be
10 prudent to require that for that reason.
11 There's -- there is -- are also -- there's
12 also some potential for some material to have been -- to have
13 been left on-site, and we think it would be prudent to
14 require any -- that any future buildings have radon controls
15 built into them. They're really very inexpensive to -- to
16 put in.
17 JOHN YOUNG: So I take it, then, that the bag
18 for the material that will be left there -- that is not going
19 to be completely removed -- has enough of a different
20 characterization from just the native materials that you
21 have -- do you have an elevated level of concern or -- or,
22 based on what you said, is it just something you would
23 recommend for any building, say, on campus?
24 LINN HAVELICK: I think that -- that there are
25 a number of reasons why we had explored that kind of -- that

1 kind of a covenant. One of the -- one of the reasons for
2 that was the EPA requirement that -- that we meet a total
3 dose to the public of a maximum of 15 millimes per year, and
4 that covenant -- this covenant would help us meet that
5 particular standard.
6 So I think that there's a great deal of
7 additional information about that in -- in the report -- I
8 think in the proposed plan -- and we can maybe expand on that
9 in our responses.
10 Yes.
11 TOM ATKINS: Tom Atkins. 1110 12th Street.
12 First of all, I have no reason to differ with your proposed
13 plan. It seems like about the same proposed plan as existed
14 in 2004; and it seems like a prudent thing to do as far as --
15 as far as the local area is concerned. I would like the
16 record to reflect that the public notification for this
17 meeting was probably not adequate and is reflected in the
18 fact -- in the attendance here.
19 So I invite you to help -- you know, work with
20 the neighborhood and the City to ensure that this kind of
21 thing gets proper notification for future meetings. Thank
22 you.
23 LINN HAVELICK: Okay. Anyone else? I think
24 we'll close the public meeting at this point and thank you
25 all for coming.

1 TOM ATKINS: Thank you very much. We
2 appreciate the feedback.
3 LINN HAVELICK: All right.
4 (The CSMRI meeting concluded at 7:20.)
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

1 C E R T I F I C A T E

2 STATE OF COLORADO)
) ss.
3 CITY AND COUNTY OF DENVER)

4 I, Lisa DeLeo, Notary Public in and for the State of Colorado do hereby certify that said proceedings
5 were stenographically reported by me at the time and place heretofore set forth, and were reduced to typewritten form
6 under my supervision, as per the foregoing;
That the foregoing is a true and correct
7 transcript of my shorthand notes then and there taken;
That I am not of kin or in anywise associated
8 with any of the parties to said cause of action or their counsel, and that I am not interested in the event thereof.
9 IN WITNESS WHEREOF, I have hereunto set my hand and seal this 11th day of June, 2007. My Commission
10 expires November 11, 2007.

11

12 Lisa DeLeo
13 Notary Public
899 Logan Street - Suite 208
14 Denver, Colorado 80203
(303) 831-1667

15

16 LISA DELEO
17 Notary Public
State of Colorado

18

19

20

21

22

23

24

25