

RED HILL VALLEY PARKWAY INQUIRY

TRANSCRIPT OF PROCEEDINGS
HEARD BEFORE THE HONOURABLE J. WILTON-SIEGEL
held via Arbitration Place Virtual
on Monday, May 2, 2022 at 9:30 a.m.

VOLUME 6

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1 Arbitration Place Virtual

2 --- Upon resuming on Monday, May 2, 2022

3 at 9:30 a.m.

4 MR. LEWIS: Good morning,
5 Commissioner, counsel. It's Monday, the second
6 week of our hearings, and Mr. Centa read the land
7 acknowledgement on day one of the hearings and it
8 is on the inquiry website, but we do not want this
9 to be a perfunctory one-time acknowledgement and
10 will make it at the beginning of each week of the
11 hearings.

12 So, I would like to open this
13 week of the hearings by acknowledging that the
14 City of Hamilton is situated upon the traditional
15 territories of the Erie, Neutral, Huron-Wendat,
16 Haudenosaunee and Mississaugas. This land is
17 covered by the Dish With One Spoon Wampum Belt
18 Covenant, which was an agreement between the
19 Haudenosaunee and Anishinaabek to share and care
20 for the resources around the Great Lakes. We
21 further acknowledge that the land on which
22 Hamilton sits is covered by the Between The Lakes
23 purchase, 1792, between the Crown and the
24 Mississaugas of the Credit First Nation.

25 Many of the counsel appearing

1 on this hearing today are in Toronto, which is on
2 the traditional land of the Huron-Wendat, the
3 Seneca and, most recently, the Mississaugas of the
4 Credit River. Today, this meeting place is still
5 the home to many indigenous people from across
6 Turtle Island and we are grateful to have the
7 opportunity to work on this land. Thank you.

8 And, yesterday, just one
9 preliminary matter before we begin with the
10 witnesses this week. We provided participants'
11 counsel with a new release of documents for the
12 inquiry database, which includes documents that
13 weren't in the database which have been made
14 exhibits or otherwise now. That release included
15 two MTO prefix documents that are cited in
16 overview document 4, which is Exhibit 4, and those
17 had previously been redacted and are now being
18 unredacted in the new release.

19 And since overview document 4
20 is already an exhibit, we wanted to bring this
21 change to your attention, Commissioner, to confirm
22 that that modification can be made to overview
23 document 4, Exhibit 4.

24 JUSTICE WILTON-SIEGEL: Thank
25 you.

1 MR. LEWIS: And the first
2 witness this week is Mr. Andro Delos Reyes, who is
3 here today. If the registrar could affirm or
4 swear Mr. Delos Reyes.

5 ANDRO DELOS REYES; AFFIRMED

6 EXAMINATION BY MR. LEWIS:

7 Q. Good morning,
8 Mr. Delos Reyes. Thank you for coming.

9 A. Good morning, too.

10 Q. If we could start off by
11 going to Golder GOL5388. When it comes up,
12 Mr. Delos Reyes, this will be a CV of yours, which
13 I think you will recognize. And just to go
14 through a bit of your background before we get
15 into the rest of your evidence, you have a civil
16 engineering degree obtained in the Philippines.
17 Is that correct?

18 A. That's correct.

19 Q. And are you or were you a
20 practicing engineer in Ontario?

21 A. No.

22 Q. Is that just a result of
23 the non-transferability of your qualifications
24 from the Philippines?

25 A. That's correct.

1 Q. And you are a certified
2 engineering technologist with the Ontario
3 Association of Certified Engineering Technicians
4 and Technologists. Is that right?

5 A. That's correct.

6 Q. And how long did you hold
7 that certification for?

8 A. If I can remember,
9 probably from 1993. I'm not really sure, but --

10 Q. From the early 1990s, in
11 any event, a long time?

12 A. Yes.

13 Q. Okay. And what does that
14 certification qualify you to do?

15 A. Well, it gives you
16 recognition and because before you could even be a
17 member of the -- be certified as a technologist,
18 you need to take the exam and have to pass that
19 and submit a thesis.

20 Q. And you became, according
21 to this, a CCIL certified type -- sorry, certified
22 type B -- sorry, type C aggregate technician in
23 2007. Is that right?

24 A. That's correct.

25 Q. And what is a type C

1 aggregate technician?

2 A. It's that you can do

3 testing on aggregates.

4 Q. Specifically on

5 aggregates?

6 A. Specifically, yes.

7 Q. I see. And as well, a

8 CSA certified concrete field and laboratory

9 technician in 2007?

10 A. That's correct.

11 Q. And what's that

12 specifically?

13 A. You can actually do field

14 testing on concrete samples, cylinders, and you

15 can also do testing in the laboratory.

16 Q. Right. And were those

17 obtained prior to the Red Hill Valley Parkway

18 paving working commencing in 2007?

19 A. That's correct.

20 Q. Was it for that purpose

21 specifically, because you knew you were going to

22 be doing that kind of work?

23 A. No.

24 Q. No, okay.

25 A. No. That was I think the

1 standard for Golder, that you have to be certified
2 before even you can handle any of these materials.

3 Q. Right. Okay. And
4 there's a 2010 date there for the certified type B
5 hot mix asphalt technician. Is that -- did you
6 obtain that in 2010?

7 A. Yes, that's correct.
8 Yes.

9 Q. And what's that?

10 A. That you can actually
11 handle testing on hot mix, hot mixes.

12 Q. Being asphalt?

13 A. Yes.

14 Q. And I understand that you
15 were at Golder from 1996. Is that right?

16 A. That's correct.

17 Q. And originally as an
18 asphalt lab supervisor?

19 A. That's correct.

20 Q. And then as a senior
21 pavement and materials technologist?

22 A. That's correct.

23 Q. Okay. And then you
24 retired from your employment in 2016. Is that
25 right?

1 A. That's right.

2 Q. With Golder. And did you
3 nevertheless continue to do some work for Golder
4 after that date?

5 A. I was recalled, I
6 believe, two years after that, just for on
7 contract. Mostly projects in the Caribbean.

8 Q. Okay. And do you
9 continue to do that kind of work or have you
10 stopped that entirely?

11 A. I stopped. I stopped.

12 Q. Okay. And when was the
13 last time you did work for Golder?

14 A. That would be '19, I
15 believe.

16 Q. All right. And then with
17 respect to specifically to the Red Hill Valley
18 Parkway -- you can take that down, Registrar,
19 thank you -- what was your position title on the
20 Red Hill Valley paving project?

21 A. I was supposed to be the
22 senior inspector in the field and in the lab.

23 Q. So, the senior site
24 inspector, was that your title?

25 A. Correct, yeah.

1 Q. Okay. And were you full
2 time on the Red Hill project?

3 A. Yes, that's correct.

4 Q. I guess from when Golder
5 was retained to provide the lab and field testing
6 inspection services in 2006. Is that right?

7 A. That's correct.

8 Q. And so, that was your
9 only project from that time forward, until the
10 completion of the paving. Is that right?

11 A. Yes.

12 Q. All right. Am I correct
13 you reported to Ludomir Uzarowski?

14 A. That's correct.

15 Q. And so, we know that the
16 actual paving of the first layer of the Red Hill
17 Valley Parkway main line started at the end of
18 May 2007, May 29, 2007 specifically, but could you
19 just describe generally your responsibilities
20 prior to the commencement of the actual paving?

21 A. I believe, if I can
22 recall, once we got the contract, I believe
23 from -- the contract was given to Golder that we
24 can proceed with this project. I was tasked to
25 make sure that the site for the laboratory, which

1 I think we were given a trainer role, that it is
2 suitable for testing environmentally, and then I
3 had to order the equipment with the help from our
4 senior guys in Whitby and had to set up the
5 laboratory once the equipment arrives.

6 And after that, then we have
7 to make sure that the laboratory itself should be
8 certified by CCIL to operate.

9 Q. And so, you were
10 responsible for ensuring that the laboratory was
11 certified by CCIL?

12 A. Yes.

13 Q. Okay. And that was done?

14 A. Yes, that was done.

15 Q. Okay. And that's the
16 Canadian Council of Independent Laboratories.
17 Right?

18 A. That's correct, yes.

19 Q. And what about the hiring
20 of technicians or getting the technicians
21 involved, is that something you were involved
22 with?

23 A. Yes, I was involved in
24 that. I tried to see where I can get technicians
25 to help me with this project.

1 Q. And the field laboratory,
2 that was near to the construction site, right, in
3 Hamilton?

4 A. That's correct. I think
5 it's Raynor Road.

6 Q. R-A-Y-N-O-R, I think?

7 A. That's correct.

8 Q. And once the paving
9 began, what were your responsibilities, generally
10 speaking?

11 A. Well, my responsibility
12 primarily is on the site, on the paving site, is
13 that I have to ensure that the materials that
14 being placed on the paver conforms with whatever
15 the contract stipulates. And, especially in the
16 field, especially in the field, I had to make sure
17 that there are no defects, right, after the paver,
18 because if there are defects or stress, pavement
19 stresses, I have to call the attention immediately
20 of whoever is the supervisor in the field. And --

21 Q. Is that by way of a
22 visual that you're talking about at that point?

23 A. That's the mat, the
24 pavement mat, and that is basically what I do in
25 the field. Number two is that I make sure that I

1 also document the temperature that the mat, right
2 after the paver, I have to document that. That's
3 why I believe I sent some photos of that before
4 that you could see that it's a certified gauge for
5 temperature. What is the temperature right after
6 the paver, because if it's low or high, I have to
7 call the attention of whoever is the supervisor of
8 the contractor in the field that it's too high.

9 I believe in practice, in my
10 experience, they actually call their plant
11 immediately that, okay, there is -- you have to
12 adjust this and that. And then --

13 Q. And just when you refer
14 to the paver, you're actually talking about the
15 paving machine?

16 A. Yeah, the paver.

17 Q. You're taking the
18 temperature immediately following that?

19 A. Right. Yeah, just to
20 document that, okay, we are within what is
21 specified, just to explain some more, because I
22 believe the compaction mixing temperature is
23 around 175 for SMA and the compaction is, I think,
24 160 degrees Celsius. So, after that, then my
25 other job is also to make sure that, okay, I

1 document or photograph, make a photo, of whatever
2 I think is not in conformance and also in
3 conformance with the mat, the pavement itself.

4 And I have also to make sure
5 that the -- we have one technician that was doing
6 the -- what do you call it? -- the density, the
7 nuclear density gauge, and that is way down after
8 the paving when the pavement is already cooled and
9 then you can start doing quality assurance density
10 measurement using the nuclear density gauge.

11 Q. The nuclear densometer,
12 the nuclear density gauge, that's the same thing?

13 A. Yes.

14 Q. And so that's testing the
15 asphalt compaction. Is that correct?

16 A. That's correct, yeah.

17 Q. Okay. All right. And
18 what about trial batches and so forth and the
19 asphalt samples from Dufferin?

20 A. That is being done in our
21 field laboratory and I trained two guys to do that
22 before even this was -- before even the start of
23 the project, I started already training the guys
24 how to do Superpave mixes and testing and using
25 all the brand new equipment that we have.

1 Q. Okay. So, do I
2 understand you correctly there were three
3 technicians under you at the site? Is that right?

4 A. Yeah. At the field, one,
5 and two technicians in the laboratory.

6 Q. Right. Okay. And the
7 one that you referred to who is doing the nuclear
8 density testing in the field. Is that right?

9 A. That's the guy who he is
10 permanently doing that stuff in the field.

11 Q. And the other two in the
12 laboratory doing the other two?

13 A. That's correct, yes.

14 Q. Okay. And, just to be
15 clear, in the laboratory, what are the tests that
16 are being done there?

17 A. We do the -- once the
18 sample are delivered to us by the contractor,
19 being Dufferin, then we log it in of course and
20 then we start doing the testing. Testing means we
21 have to heat the sample, reheat the sample, and do
22 the required test parameters on the Superpave and
23 SMA.

24 Q. And, typically, what's
25 the testing that's being done there?

1 A. That you're supposed to
2 use the compacter to make the briquette and also
3 do the extraction gradation using the ignition
4 oven.

5 Q. Right. And we'll get to
6 that issue after, but that's the first way that it
7 was -- the extraction gradation was done, the
8 extraction by using the ignition oven. Is that
9 right?

10 A. That's correct.

11 Q. Okay. And the first type
12 of testing you referred to, what are you testing
13 for? Is air voids one of them?

14 A. Yeah. We are testing the
15 BRD, the bulk relative density, of the briquette.

16 Q. Sorry. The "what"
17 relative density?

18 A. Bulk.

19 Q. BRD?

20 A. Yeah. In the laboratory,
21 we just call it BRD.

22 Q. It's all acronyms. I
23 understand, I get that, but sometimes we have to,
24 for us non-technicians and non-engineers, need to
25 clarify what those acronyms actually --

1 A. I understand.

2 Q. Okay. And, in terms of
3 attendance on the site once paving started, how
4 often were you -- were you both in the laboratory
5 and at the site of the paving each day?

6 A. That's correct.

7 Q. Okay. And were you
8 doing, aside from the temperature, I think you
9 said you were testing the temperature, aside from
10 that, was it the technicians under you that were
11 doing the actual testing or were you involved in
12 the testing itself?

13 A. In the laboratory, when
14 there is a lull in paving, like maybe the
15 equipment break down or the contractor or rain or
16 for whatever reason there's delay, then I have to
17 rush back to the laboratory and help out the guys.

18 Q. So, more on an irregular
19 basis if there was a need to assist them, but
20 primarily the other three technicians under you
21 were doing the testing that you described. Is
22 that right?

23 A. That's correct, yeah.

24 Q. Okay. And from reviewing
25 the site meeting minutes, it appears that you

1 didn't attend the site meetings until the actual
2 paving began. Does that accord with your
3 recollections?

4 A. I believe so, yes.
5 That's correct.

6 Q. All right. And those
7 three technicians, they reported to you directly.
8 Is that right?

9 A. Yes.

10 Q. And did you always review
11 the results of the testing that the three
12 technicians did?

13 A. Yes, because I have to
14 transfer that to -- because they are all
15 handwritten. They are handwritten. We have a
16 form that does that and then it's transferred to
17 either the Word or Excel sheets, yeah.

18 Q. Okay. So, the initial
19 test results were handwritten and you yourself
20 would transfer it to the typewritten result in
21 whatever format that was?

22 A. That's right, yeah.

23 Q. Okay. And then, how did
24 your reporting with Dr. Uzarowski work, generally
25 speaking?

1 A. I would e-mail the test
2 results to him.

3 Q. Okay. As you just
4 described, after you transferred the handwriting
5 into the electronic document, you would e-mail
6 those to Dr. Uzarowski?

7 A. For his review.

8 Q. Okay. And what about
9 general communications? I assume you also spoke
10 to him on the phone?

11 A. Yeah, once in a while,
12 when there is urgency, especially when I'm not
13 really 100 percent sure what is going on, so
14 technically that's it. So, I have to, because
15 Dr. Uzarowski is more experienced and it's a lot
16 of, you know, all this information on asphalt
17 technology.

18 Q. And how often was
19 Dr. Uzarowski on the site or at the laboratory?

20 A. He comes in there not
21 regularly, but he comes in there, especially if I
22 need him to check one or two things.

23 Q. Right, so not daily,
24 but --

25 A. Not daily, no.

1 Q. Okay. And so, if there
2 was any issue in your mind that you either didn't
3 understand or required advice on or if there was a
4 problem that you didn't feel that you were able to
5 address yourself or that you ought to address
6 yourself, you would then speak to or e-mail
7 Dr. Uzarowski. Is that right?

8 A. Definitely, yes.

9 Q. And prior to this
10 project, did you personally have any experience on
11 a project involving SMA specifically?

12 A. I probably did. I cannot
13 remember. But not in the field. Probably I was
14 doing a bit of testing of the mortar, we call it
15 mortar for the SMA, like the fibre and the asphalt
16 cement that's being used in --

17 Q. That holds it together?

18 A. But not in the field, no.
19 Just because the lab, we have a lot of samples
20 that comes in, so I believe I might have tested
21 one of those things, the SMA mortar, yeah.

22 Q. So, you may have or you
23 think you did, but not in field work?

24 A. Not in the field work,
25 no.

1 Q. Okay. And we know that
2 the SMA and the other mix designs were completed
3 by Dufferin's consultant, Trow Associates. Did
4 you have any involvement in reviewing mix designs
5 for conformance with the contract specifications?

6 A. Definitely not. That's
7 senior management.

8 Q. Senior management, okay.
9 And those mix designs were provided prior to the
10 paving taking place. When did your role, then,
11 begin?

12 A. That's when we got the
13 mix design from Dufferin because, as you probably
14 know now, we cannot do anything without the mix
15 design. Even the contractor also. That is like
16 our Bible. We refer everything to the approved
17 mix design.

18 Q. And because you're copied
19 on e-mails that pertain to mix design or aggregate
20 approval even though, as you said, you weren't
21 doing the approval of that, why are you being
22 copied on those kind of communications?

23 A. Most likely for
24 information.

25 Q. I'm reminded,

1 Commissioner, I do need to mark Mr. Delos Reyes'
2 CV as Exhibit 28.

3 JUSTICE WILTON-SIEGEL:
4 Exhibit 28.

5 MR. LEWIS: That's Golder
6 5388.

7 EXHIBIT NO. 28: CV of
8 Andro Delos Reyes,
9 GOL5388.

10 BY MR. LEWIS:

11 Q. Who was your main contact
12 at Dufferin during the paving?

13 A. As far as I can
14 recollect, it's Mr. Janicas. Janicas?

15 Q. Janicas?

16 A. Janicas, yes. I'm sorry.
17 Janicas, yes.

18 Q. I may not have the
19 pronunciation correct, but it's J-A-N-I-C-A-S?

20 A. That's correct, yeah.

21 Q. Paul Janicas. Okay. And
22 what were your dealings generally with him?

23 A. He was actually, most of
24 the time when I go there he's in the field and
25 he's the only guy that I actually know that I

1 communicated with verbally, and at the same time
2 also those supervisors in the field of Dufferin,
3 like who's doing quality control for them.

4 Q. Sorry, that's what he was
5 involved in, Mr. Janicas. Is that what you mean?

6 A. I believe so, yeah. I
7 believe so.

8 Q. Right. And did you deal
9 with Dufferin's quality control technicians as
10 well in the field on occasion?

11 A. Yes.

12 Q. Okay. And what work were
13 they doing when you were dealing with their --

14 A. Mostly doing the nuclear
15 density testing.

16 Q. And when in your
17 experience would Mr. Janicas come to the site,
18 under what sort of circumstances?

19 A. I have no idea about
20 that. I just always see him there, so, you
21 know --

22 Q. Right. And would you
23 meet with him in the lab or at the construction
24 site --

25 A. No, only on the

1 construction site.

2 Q. Only the construction,
3 okay. And with respect to the Dufferin
4 technicians doing the nuclear density testing, do
5 you mean you would interact with them when they
6 were actually doing the testing?

7 A. That's correct.

8 Q. Okay. And what about the
9 City of Hamilton? Who was, in your experience,
10 supervising the paving process from the city's
11 perspective?

12 A. I see this guy, Marco.

13 Q. Marco Oddi?

14 A. Marco, yeah, yeah.

15 Q. And did you interact with
16 Mr. Oddi from time to time?

17 A. From time to time when
18 he's onsite.

19 Q. Okay. And did he come to
20 the lab or just the construction site?

21 A. Just the construction
22 site.

23 Q. And I guess site
24 meetings? Since you're in some of the minutes
25 where he's in those as well.

1 A. That's correct.

2 Q. And did you communicate
3 with Mr. Oddi by e-mail typically?

4 A. I don't remember. No, I
5 don't remember, because the practice usually is I
6 have to make sure that Ludomir is the one that
7 communicates on the senior management, whoever is
8 the senior management, you know, with the City of
9 Hamilton or even the Dufferin engineers.

10 Q. And so, typically, then,
11 you would communicate with Dr. Uzarowski, who
12 would communicate with Mr. Oddi. Is that fair?

13 A. That's right, yeah.

14 Q. Okay.

15 A. There might be some
16 instance when on the site and they are actually
17 there and then there's something that is troubling
18 me, like, you know, then maybe I could -- I
19 actually directly just speak to them, but I have
20 to inform Ludomir about it.

21 Q. Right. There you're
22 talking about speaking actually in-person as
23 opposed to e-mail traffic?

24 A. Right. There might be
25 one or two that I probably did an e-mail directly,

1 but it's also copied to, as far as my
2 recollection, it's always copied to Ludomir.

3 Q. I think generally
4 speaking that accords with the documents.

5 A. Right. Yeah.

6 Q. You don't typically
7 communicate with them directly. Okay.

8 And so, then I just want to
9 talk about shortly before the SMA main line paving
10 in July of 2010. And if we could go to OD3, image
11 49, please, Registrar. And I guess 49 to 50, if
12 we could pull them both up. Thank you.

13 Mr. Delos Reyes, this is just
14 what we call the overview document, which I think
15 you will have seen, and we'll, on some occasions,
16 rather than go to the document itself go to the
17 summary of it. In paragraph 100, there's an
18 excerpt from the July 10, 2007 site meeting
19 minutes from that day. And under Material
20 Testing, which is at the top of page 50 there,
21 you'll see that it talks about:

22 "Golder requested that
23 Dufferin produce a trial
24 batch of SMA for the
25 field labs to work out

1 testing correlation
2 differences."

3 And secondly:

4 "Golder indicated the
5 vibratory roller
6 currently being used by
7 Dufferin is likely too
8 heavy for the SP19 and
9 SMA pavement layers."

10 So, you're listed on the
11 minutes as attending the meeting. On the first
12 paragraph there, do you recall what the issue was
13 at that time with respect to the SMA trial batch
14 testing correlation differences?

15 A. The question again,
16 please?

17 Q. Do you recall what the
18 testing correlation differences were in the SMA --

19 A. I'm not thoroughly sure
20 what the question is about.

21 Q. Do you recall what the
22 issue was with correlation?

23 A. Correlation on the SMA --

24 Q. Yes.

25 A. -- samples?

1 Q. Yes.

2 A. Samples from where? From
3 like the test strip or --

4 Q. So, just to place this in
5 time, the test strip is on July 25, so it's
6 15 days after this, and so here the request is
7 that Dufferin produce a trial batch of SMA?

8 A. That's correct, yes.

9 Q. Okay. Is this about the
10 ignition oven issues?

11 A. Yes, because --

12 Q. It is, okay. So --

13 A. I don't know if you -- as
14 I probably could explain, because Dufferin is
15 using a solvent type of structure and Golder here
16 is using the ignition oven system, so that's why
17 we needed a correlation for that.

18 Q. Okay. And we have heard
19 from Dr. Uzarowski that both the ignition oven and
20 solvent extraction, the intention is to separate
21 or get rid of the asphalt cement, everything
22 except the aggregates?

23 A. Correct.

24 Q. So that then testing can
25 be performed on the aggregates and the asphalt

1 cement component be tested as well. Is that
2 right?

3 A. That's correct, removal
4 of the asphalt cement by using one type of system
5 called the solvent. We use a chemical called
6 trichloroethylene and then the one we're using at
7 Raynor uses ignition oven, which we burn the
8 asphalt cement itself and what is left is the
9 aggregate.

10 Q. Right. And then after
11 that, what testing is done with the remaining
12 aggregate?

13 A. Well, we actually do a
14 sieve analysis.

15 Q. Sieve analysis?

16 A. Sieve analysis, yes.

17 Q. Okay. That's the
18 gradation --

19 A. Yes.

20 Q. -- of the aggregates?

21 A. Yeah.

22 Q. And that's to confirm
23 that the size of the aggregates, the gradation of
24 the aggregates, conforms to the mix design
25 requirements. Is that right?

1 A. That's correct.

2 Q. As well as the asphalt
3 cement content?

4 A. That's correct, yeah.

5 Q. Okay. All right. And
6 then the next bullet under Material Testing at the
7 top of image 50 there or the next paragraph
8 states:

9 "Golder indicated the
10 vibratory roller
11 currently being used by
12 Dufferin is likely too
13 heavy for SP19 and SMA
14 pavement layers."

15 Do you recall that issue at
16 that time?

17 A. Not that I recall. The
18 only thing I recalled was during the test strip.

19 Q. Okay. We will get to
20 that, but what do you recall about the test strip
21 on that? Are you saying you recall the vibratory
22 roller being an issue during the test strip?

23 A. I believe so, yeah.

24 Q. Okay. So, we'll come
25 back to that in turn. Do you recall was this you

1 that would have indicated that the vibratory
2 roller being used by Dufferin at this time, this
3 was in advance of the test strip, was likely too
4 heavy for the SP19 and SMA pavement layers?

5 A. Most likely, from my
6 observation. They probably were using vibration.

7 Q. Right. Is that an issue
8 for SMA?

9 A. It's an issue, yes.

10 Q. And what is the issue?

11 A. The issue that the SMA is
12 more -- principally, it composes around 70 percent
13 coarse aggregate. Coarse aggregate means that one
14 that's retained on 4.75 C. These are the stones,
15 so there's very little fine aggregate that could
16 absorb the impact, so there is a likelihood. It's
17 not 100 percent, but in practice there's a
18 likelihood that if you use vibratory roller, there
19 are vibratory rollers but they are using vibratory
20 because there are vibratory rollers that uses
21 static compaction. But if they use vibration, as
22 I mentioned in my last interview with you, it's
23 just like vibrating a mat on top of a bridge, a
24 concrete bridge, and that is not allowed because
25 it could break the concrete underneath.

1 Q. Okay. So, just on your
2 last example, you're saying that if you're doing
3 it on a bridge, you would not use --

4 A. No.

5 Q. -- vibration on the
6 rollers?

7 A. That is, I believe,
8 standard practice and specifications.

9 Q. Okay. So, we're not on a
10 bridge here?

11 A. Yeah.

12 Q. But you're using that, as
13 I understand it, as a --

14 A. Correct.

15 Q. -- comparison that
16 there's a concern with cracking or breaking the
17 aggregates if you use the vibration function on a
18 roller?

19 A. It's because of the stone
20 skeleton, you know.

21 Q. Okay. And then, if we
22 could go to the next paragraph, 101, on the same
23 page, image 50, there's a July 17, 2007 e-mail
24 from Mr. Paul Janicas of Dufferin to Dr. Uzarowski
25 and Marco Oddi, and so this is now a week after

1 the site meeting that we were just discussing.

2 He's talking about their conversation about the

3 current status of the SMA, and in the second

4 paragraph he states:

5 "A concern was expressed

6 over the percent

7 breakdown discovered

8 during the ignition oven

9 testing at 30 percent.

10 Dufferin Construction

11 Company understands that

12 is not what is typically

13 seen. However, it is not

14 a requirement of the

15 contract that these

16 aggregates meet a

17 specific maximum loss

18 during the ignition oven

19 testing."

20 So, this is the ignition oven

21 we were just talking about?

22 A. Correct.

23 Q. Okay. And do you recall

24 what the issue was and what you observed?

25 A. When we did the ignition

1 oven on the samples that were taken for the test
2 strip and we went through the ignition oven
3 testing, I just notice that the sieve, the
4 designated sieve of 4.75, the passing is a bit
5 high. That's the coarse aggregate, so my
6 observation was that it's most likely because of
7 the temperature that the aggregate is subjected
8 to.

9 And I should note the ignition
10 oven goes up from 400 to 500 degrees to burn the
11 asphalt cement, and that could actually affect the
12 aggregate. I mean, I'm not 100 percent sure. I'm
13 not really an expert on this, but from experience
14 it could affect the -- it could degrade the coarse
15 aggregate, but that is in the ignition oven. In
16 the actual paving, you would not experience this
17 kind of temperature.

18 Q. You're not putting it in
19 an ignition oven?

20 A. No, you're not. So,
21 that's just my experience.

22 Q. Okay. And had this been
23 an issue for the prior pavement layers or no on
24 the Red Hill?

25 A. No.

1 Q. All right. And it
2 indicates in Mr. Janicas' e-mail that a concern
3 was expressed. Was that your concern that was
4 expressed to Mr. Janicas?

5 A. Most likely, because I
6 informed Ludomir about it. I have to inform him
7 whatever is my observation and Ludomir is an
8 expert in a lot of these things. He has more
9 experience, so I have to make sure that he
10 actually is informed.

11 Q. Right. And I'm just,
12 sort of, thinking about the sort of order of
13 operations. As I understand it, you observed the
14 results resulting from the ignition oven?

15 A. That's correct.

16 Q. And passed on the concern
17 that you described to Mr. Janicas and/or
18 Dr. Uzarowski?

19 A. Basically to Mr. Ludomir.

20 Q. Okay. All right. And
21 the 30 percent number, what's that a percent of?
22 What's that referring to?

23 A. Probably was referring
24 to -- well, I'm not sure about this, but it was
25 probably referring to the sieve analysis of 4.75

1 sieve that has higher passing. That's the coarse
2 aggregate.

3 Q. Right. Is it 30 percent
4 additional or 30 percent of the coarse aggregate
5 is broken down or --

6 A. I'm not sure what it's
7 saying here, but in my test when we did the sieve
8 analysis, the sieve at 4.75 has a higher passing.
9 Let me just say I believe the JMF is around almost
10 only 30 percent passing, but what we found out was
11 at 4.75, it was higher in the rejectable range.

12 Q. Right. And you've just
13 referred to the JMF?

14 A. Correct.

15 Q. Which is an acronym that
16 appears on the asphalt test results?

17 A. Correct.

18 Q. Could you just --

19 A. Correct. We base
20 everything on the JMF.

21 Q. What does JMF stand for?

22 A. Job mix formula. That's
23 the design. Everything is referred there.

24 Q. Right. So, that's what
25 is expected, that's what the mix requires --

1 A. That's correct.

2 Q. -- and you're saying that
3 it was a higher amount passing of the coarse
4 aggregate passing through the 4.75 millimetre
5 sieve?

6 A. Correct. That's
7 basically everything is referred to the JMF
8 because that's the guide for us.

9 Q. Right. All right. And
10 what level of concern did you have about this
11 breakdown in the ignition oven? Was it a mild
12 concern, a serious concern, was it alarming? How
13 would you describe it?

14 A. In my experience, in some
15 projects that I have done, it is also not unusual,
16 you know, of the breakdown of aggregate. It's not
17 unusual --

18 Q. In the ignition oven?

19 A. In the ignition oven,
20 yes. But I still have to inform Ludomir,
21 Dr. Uzarowski, about it, you know.

22 Q. Okay. And then the next
23 day -- sorry, one more question. This breakdown
24 occurred in both the SMA mix and in the SP19 mix.
25 Is that right?

1 A. Which one are you
2 referring to, please?

3 Q. Sorry, I'm looking at
4 the -- one moment. Was it just the SMA mix that
5 the breakdown was in or was it also in another --
6 was it in another asphalt mix?

7 A. I believe it was in the
8 SMA mix.

9 Q. Okay. If we could go to
10 paragraph 102 on the next page, image 51. And
11 this is paragraph 102. On July 18, Mr. Janicas
12 sent Dr. Uzarowski the physical property test
13 results for the Demix aggregates which were being
14 used in the SMA mix and Dr. Uzarowski then
15 forwarded that to you and then you replied. And
16 it's actually in 103, if you could expand that.
17 You know what? Maybe don't expand that so that
18 both e-mails, Registrar -- thank you -- so that
19 what they're discussing is also shown.

20 So, Dr. Uzarowski sends it to
21 you and then you replied:

22 "The Micro-Deval test
23 results is way below the
24 max required. I would
25 not be surprised if the

1 freeze thaw would
2 indicate the same. The
3 pet number is a different
4 story. From these
5 numbers, the material
6 seems acceptable for use,
7 as I mentioned before,
8 only when the aggregate
9 is subjected to high
10 temp, 400 degrees Celsius
11 and up, and that's when
12 the material starts to
13 break down. Will the
14 pavement experience this
15 high temp? I guess not."

16 If I understand correctly,
17 it's what you just described to us --

18 A. Right.

19 Q. -- in the last sentence
20 there that, in practice, is the pavement going to
21 experience that 400 plus degree temperature, and
22 the answer is no. Is that right?

23 A. It will not experience
24 that.

25 Q. Okay. And then with

1 respect to the Micro-Deval test you're referring
2 to, could you just describe that for us?

3 A. Micro-Deval is a test to
4 test the degradation of the aggregate for loss
5 when it's subjected to -- I think a Micro-Deval is
6 wet testing compared to the Los Angeles test, and
7 these are -- it's an equipment whereby there's
8 water inside it and they put the aggregate in
9 there, the coarse aggregate, and then there are
10 steel bowls that is in there and then it revolves
11 to how many cycles and then after that they weigh
12 it and see if there is a lot of degradation on the
13 coarse aggregate because of the banging of the
14 steel bowls --

15 Q. So, it's abrading the
16 aggregate. Is that right?

17 A. Yeah, it's abrasion test.

18 Q. Right. Both the
19 Micro-Deval and the LA --

20 A. Correct. It's dry and
21 the Micro-Deval is wet.

22 Q. Okay. And you indicate
23 the Micro-Deval test is way below the max
24 required?

25 A. That's correct.

1 Q. That's a good thing, I
2 take it?

3 A. Yeah. Oh, a very good
4 thing but I'm not sure the -- in the contract
5 documents, even I think the designer most probably
6 had already tested this, most likely, because at
7 1.8, that is really very low loss, which is a very
8 good thing.

9 Q. Okay. So, when you say
10 it's way below the max required, the max is what
11 the specification is for the maximum loss of --

12 A. Yeah.

13 Q. -- the aggregate that
14 comes off in the test and it's below that?

15 A. That's correct. I think
16 15, 17, I believe is the max. I'm not 100 percent
17 sure about that, but it's way below. I would say
18 that the aggregate is a good quality on this type
19 of abrasion test.

20 Q. Okay. And then you refer
21 to freeze thaw in the second paragraph, freeze
22 thaw and the pet number. The pet number, is that
23 petrographic?

24 A. Yes, please. Yeah.

25 Q. What's that referring to?

1 A. I think it's -- I'm not
2 familiar with it, but it's one of the
3 requirements. It's most likely there's -- I'm not
4 100 percent sure. I've not been in the asphalt
5 technology for three years now, so I can't -- and
6 it's probably -- it's a petrograph number. Maybe
7 it's chemical testing and whatever test --

8 Q. But you're not sure at
9 this time?

10 A. I'm not sure, yeah.

11 Q. And what about the freeze
12 thaw?

13 A. Freeze thaw is for
14 weathering. They usually put it on hot
15 temperature in the oven and then after a cycle and
16 it goes through the freezer just to simulate the
17 weather condition most likely here, in Canada. We
18 have hot and that is the aggregate subjected to
19 that kind of weathering.

20 Q. Okay. If we could go to
21 image 52. I guess 52 and 53. Okay. And at the
22 bottom of 52, paragraph 105(b), so this is on
23 July 23, 2005. And if you could expand that,
24 please, 105(b). Thank you.

25 And so, on July 23, this is

1 now five days after the last e-mail we were
2 discussing, you e-mail Dr. Uzarowski indicating:

3 "Just to remind you,
4 trial strip SMA this
5 coming Wednesday."

6 I guess this is a Monday that
7 you're e-mailing him on the 23rd, since we know it
8 took place on the 25th. And then:

9 "Also, if you are going
10 to issue written approval
11 (with reservation) for
12 the SMA mix design,
13 please include the SP19
14 mix design (we've already
15 given the verbal approval
16 during the regular
17 monthly meetings) just to
18 confirm it in writing."

19 And so, the first thing you're
20 discussing there with Dr. Uzarowski is the SMA
21 test strip, which we'll get to very shortly. In
22 the second paragraph, there's a couple things I
23 would like to ask you about. The first is you
24 refer to "if Dr. Uzarowski is going to issue
25 written approval (with reservation) for the SMA

1 mix design." So, what do you use the term "with
2 reservation" about the SMA mix design --

3 A. Yeah. That's because of
4 what I observed in the ignition oven. He has to
5 be informed because, as I always say, I am not
6 that qualified what happens if, you know, if it's
7 subjected to that kind of -- it's not actually
8 being subjected, but the test results is the test
9 results, so I have to inform him for his
10 information.

11 Q. Okay. So, the
12 reservation that you refer to is specifically with
13 respect to the ignition oven results that you have
14 described?

15 A. Correct.

16 Q. Okay. And nothing else,
17 only that issue?

18 A. No, that's not the only
19 issue. Yes, that's what I'm referring to.

20 Q. Okay. But you've already
21 told us, you've described, that the aggregates are
22 not going to experience the 400-degree temperature
23 in practice that caused their background, so why
24 at this point is there a -- you've already
25 described that in your e-mails to Dr. Uzarowski.

1 Why suggest a reservation at this point?

2 A. It is for his
3 information.

4 Q. Okay. Even though you've
5 already described it to him?

6 A. Correct, yeah. He has to
7 be aware.

8 Q. And the second thing you
9 refer to in that second paragraph after referring
10 to the written approval with reservation for the
11 SMA mix, you say:

12 "Please include the SP19
13 mix design (which we've
14 already given the verbal
15 approval during the
16 regular monthly meetings)
17 just to confirm it in
18 writing."

19 So, which mix design are you
20 referring to there?

21 A. I believe, if I see this
22 e-mail, most likely this is the SMA mix. I'm not
23 100 percent. I can't recollect this, but could
24 be --

25 Q. It refers to the SP19,

1 though.

2 A. Also probably the same,
3 because there was already -- it says there was
4 already a verbal approval during the monthly
5 meetings, just to confirm it in writing.

6 Q. Of which one? One or
7 both?

8 A. Both, I think. Both.
9 This one probably is saying both.

10 Q. All right. And do you
11 recall there being specifically an oral approval
12 having been given for the SMA mix design?

13 A. No. Only I've read it in
14 the minutes.

15 Q. All right. And would it
16 have been you or Dr. Uzarowski that would have
17 given that?

18 A. Oh, it's always Ludomir.
19 That's why I always tell you this is higher senior
20 management who does the approval of mix designs.

21 Q. Okay. And we know that,
22 as I said, the SMA test strip was placed by
23 Dufferin on July 25. If we go to image 53, just
24 take that down or we can just leave it up there, I
25 think. No, I guess 53 and 54, please.

1 So, in paragraph 107,
2 indicating that Dufferin placed the test strip on
3 the 25th of July, and then at paragraph 108 at the
4 top of image 54, you e-mail Dr. Uzarowski the next
5 day, July 26, and you attach some photos of the
6 SMA course from the test strip and you state:

7 "Thickness is thinner
8 than required. There
9 seems to be some sort of
10 aggregate breakdown."

11 I think this is what you were
12 talking about before when we were looking at the
13 meeting minutes on the 10th of July, so if you
14 could describe what you're talking about here?

15 A. Well, we cored it. The
16 test strip was cored. That's the only time we
17 core because we're not supposed to be coring SMA
18 on the main line, so the test strip is there with
19 us to core. And after coring, we measure the
20 thickness of that. It's not only one but I
21 believe we did five, four or five, cores of that
22 and I found out that it's a bit thinner. From the
23 photos that I've sent Ludomir, there's 32
24 millimetres.

25 Q. 32 millimetres on

1 average?

2 A. Yeah, and the required is
3 40. But just to emphasize that these are test
4 strip and that's why they call it test strip,
5 because we need to know, okay, this is the way
6 we're going to do it. But that is not unusual
7 that some of these test strip could even go
8 higher, thicker, and lower.

9 Q. Right. You're testing
10 out whether or the paving contractor is testing
11 out whether they can replicate the mix designs in
12 practice on an actual placement and whether they
13 can meet the specifications?

14 A. That's correct, yeah.

15 Q. And so, is the test strip
16 being thinner than it's supposed to be an unusual
17 issue or is that fairly common?

18 A. That's common. It
19 happens in all test strips.

20 Q. Sorry, in all test strips
21 that's the result?

22 A. In my experience, not in
23 all, but just to -- not in all test strips, but in
24 my experience it happens.

25 Q. Right. Okay.

1 A. Yeah.

2 Q. And then what about the
3 aggregate breakdown issue that you described?
4 There seems to be some sort of aggregate
5 breakdown?

6 A. It's because I saw it. I
7 did photos of it --

8 Q. Right. I wonder if we
9 could go to one of the photos. If we go to Golder
10 1737, I think there's five photos, four or five,
11 which would be consistent with your recollection
12 there were four or five?

13 A. Yeah.

14 Q. So, this is the first of
15 the photos attached to your e-mail?

16 A. Yeah.

17 Q. A test strip, and I see
18 you've got the ruler out there?

19 A. Yeah.

20 Q. When you're measuring it,
21 the thickness?

22 A. Yeah.

23 Q. And I see it says the
24 sample is SMA, core one, and then it says site, 25
25 plus 250, link to Stone Church off-ramp on

1 July 25, so these are the cores that you were
2 talking about?

3 A. That's right.

4 Q. From the test strip?

5 Okay. So, what's the aggregate breakdown issue
6 that you're talking about?

7 A. Well, if you could see,
8 there's another core. There are five cores in
9 there. Maybe this one is not very -- the clarity
10 is not that good, but maybe the other two, three,
11 four, you could see.

12 Q. Okay. We can go up. The
13 visual is one issue. We can go to the next one.
14 Hold on. If we could go to Golder 1738,
15 Registrar.

16 A. Yeah. You can see that
17 down one, the first -- the darker one is the SMA,
18 I believe. And at the bottom there, you could see
19 a bit of cracking on the coarse aggregate.

20 Q. I see. Like in the
21 middle there there's an aggregate that's --

22 A. Yeah, yeah. It's not
23 widespread, but I still have to inform Ludomir
24 about it. Yeah.

25 Q. Okay. Which you do?

1 A. Yeah.

2 Q. And what you referred
3 earlier to, the vibratory function. When I say
4 vibratory roller, I understand it's something you
5 can turn and off?

6 A. Yeah.

7 Q. The vibratory function,
8 that's something you referred to earlier. Was
9 that something that was used on the test strip?

10 A. I'm not 100 percent it
11 was being used at that time, but most likely they
12 were using it.

13 Q. Okay. You don't have a
14 specific recollection, but most likely they were?

15 A. Yeah.

16 Q. Okay. And what, in your
17 view, in your experience, was causing this
18 cracking or aggregate breakdown issue, as you
19 described it?

20 A. They probably used the
21 vibratory this time because, as I explained
22 before, the SMA is stone-to-stone skeleton, so
23 there is always a tendency that there's no fine
24 aggregate that could absorb the impact of the
25 vibratory -- the vibration is huge.

1 Q. All right. Okay. And
2 then maybe just go to one more photo there.
3 That's 138. Golder 1739, which is another test
4 strip photo. I don't know from your perspective
5 if this one is clearer or less clear.

6 A. You could still see at
7 the bottom there are the coarse aggregate. The
8 picture at the bottom of the 32 millimetres,
9 there's still a bit of crack in there. But
10 overall you could see too that there isn't much
11 the crack, but as I always tell, as I always
12 mention, that I still have to make comments to
13 Ludomir about it.

14 Q. Okay. And if we could go
15 to -- take those down, please, and go to image 54.
16 We may be on there. And then in paragraph 109, in
17 the first four lines about it's an e-mail from you
18 to Dr. Uzarowski on July 27, 2007 and you attached
19 the test strip test results and you stated:

20 "Air voids is low, DCC
21 got 6.22 on their AC but
22 seems to be higher on AV
23 (3.1) which does not jibe
24 with their test results
25 on trial plant mix."

1 And, first of all, DCC, that's
2 Dufferin. Right?

3 A. That's correct.

4 Q. Okay. And AC is asphalt
5 cement?

6 A. That's correct.

7 Q. All right. And AV is air
8 voids. Is that right?

9 A. That's correct.

10 Q. Okay. So, deal with the
11 first issue. Air voids is low, and then you
12 compare what DCC got on their ACC. Could you just
13 unpack a little bit what you're talking about
14 here?

15 A. Well, we did the same
16 test, same sample.

17 Q. Right.

18 A. And --

19 Q. Sorry, you mean Dufferin
20 did the test and we, being Golder, did the test?

21 A. Yes, at our field
22 laboratory. And what we got is the air voids is
23 lower compared to theirs and I think the AC is
24 also not the same as what they got.

25 Q. Okay. So, if we could

1 just open up Golder 1735, please, which is the
2 attachment to Mr. Delos Reyes' e-mail. It says
3 "Superpave Hot Mix Asphalt Concrete Test Report"?

4 A. Yes.

5 Q. And we see there under
6 the Volumetric Properties section -- sorry, I
7 should say this is dated July 25, 2007, so it's
8 the test sample on the ramp. And under the top
9 chart there, Volumetric Properties, we see in the
10 third column it says JMF. That's what you were
11 referring to earlier. Right?

12 A. Yeah.

13 Q. So, that's what it's
14 supposed to be. And then under Test, the column
15 to the left of that, that's the actual results.
16 Is that right?

17 A. That's the actual
18 results, yes. That's right, yeah.

19 Q. Okay. And then to the
20 right of the JMF, it shows the variance from the
21 JMF, the actual test results from the JMF. Right?

22 A. That's correct, yes.

23 Q. Okay. And then in the
24 chart below, it's the gradation results, so it's
25 the volumetrics and then gradation results?

1 A. Just to emphasize here,
2 what we're using is ignition oven and Dufferin was
3 using the solvent, so there's a difference there
4 in testing system.

5 Q. Were you still at this
6 point? Because you had addressed that earlier in
7 the e-mails that we were talking about. Had you
8 not moved to the solvent extraction method by this
9 point?

10 A. No. Because what we've
11 been saying here is the testing protocol of
12 Dufferin is different from Golder, so there will
13 be differences, especially on the grading, on the
14 sieve analysis. That's why if I can go ahead and
15 I believe it was decided that our Whitby office,
16 which has a solvent extractor, all the SMA samples
17 should be set there to make sure that it also
18 correlates with -- correlate means the difference
19 would not be that big like what we're using in
20 ignition oven.

21 Q. Right, but you had
22 already dealt with the ignition oven issue. We
23 looked at your e-mail, the e-mails, from July 17,
24 so more than a week before that you were dealing
25 with this, with the ignition oven issue?

1 A. Yes.

2 Q. So, I would have thought
3 and understand that by this point you are using
4 the solvent extraction method and I see it's in
5 the test strip, which is on the 25th, so by that
6 point surely you're using a different method?

7 A. Here, it says here we
8 were using ignition oven on the test strip sample,
9 but I believe that another sample also was sent to
10 our Whitby office which does the solvent
11 extraction.

12 Q. Oh, I see where you say.
13 At the bottom, it says asphalt cement by ignition
14 oven?

15 A. Yes.

16 Q. Okay. Right. But you're
17 saying, do I understand you correctly, you think
18 you were using the solvent extraction method
19 nonetheless?

20 A. No. We don't have that
21 kind of equipment in Raynor lab. We don't have.
22 Everything that's being sent to Whitby office
23 because of we cannot send -- just to rephrase
24 before that, we cannot actually put up the same
25 equipment, the solvent equipment, at the Raynor

1 lab because of environmental requirements, so
2 that's why we were using ignition oven.

3 Q. No, I understand that.

4 But having found that there was the aggregate
5 breakdown, are you saying that you continued to
6 use the ignition oven?

7 A. On the test strip only.

8 Q. On the test strip, okay.

9 A. Yeah, yeah.

10 Q. All right. Now, do you
11 recall specifically doing that or is this because
12 it says asphalt cement by ignition oven on this?

13 A. I think we did. We did
14 the samples. We did the ignition testing for the
15 test strip. But because you could see even from
16 here, it says 80 tonnes, which is very little.
17 That's a test strip, so that's probably grade 2,
18 around maybe 300 to 400 metres only. That's why
19 it's a test strip.

20 Q. Right.

21 A. It's a ramp.

22 Q. And it's prior to the
23 actual main line --

24 A. Correct. That's correct.

25 Q. -- being done? Okay. I

1 just note that you don't indicate, though, that
2 the issues with correlation here in your e-mail to
3 Dr. Uzarowski, you don't suggest that it has to do
4 with the ignition oven, with correlation problems
5 at this point?

6 A. No. This is probably the
7 test strip that we're testing.

8 Q. Yeah. I'm just going
9 back to your e-mail where you were comparing what
10 Dufferin got and you don't mention that the cause
11 of any correlation problems are to do with the
12 ignition oven being used as opposed to the solvent
13 extraction method?

14 A. No, no. This is just for
15 us to test this, the samples that was given to us
16 by Dufferin. But as I believe I can recall,
17 another sample was sent to our Whitby office for
18 solvent extraction.

19 Q. Okay. Thank you. All
20 right. If we could mark that as an exhibit. It's
21 attached but it's not in the overview document, so
22 if we could mark Golder 1735 as an exhibit. I
23 believe that's 29.

24 EXHIBIT NO. 29:

25 Attachment entitled

1 "Superpave Hot Mix
2 Asphalt Concrete Test
3 Report," GOL1735.

4 BY MR. LEWIS:

5 Q. All right. If we go back
6 to the overview document, image 59. No, sorry.
7 That's wrong. Image 54. Thank you.

8 In the same paragraph, on that
9 day Dr. Uzarowski's notes indicate there was a
10 meeting about the test strip onsite on the same
11 day, and his notes refer to meeting with Marco
12 Oddi, James DCC, Andro and Lu. Do you recall if
13 you were at that meeting?

14 A. It could be. I can't
15 recall exactly, but if my name is there, then most
16 likely I was there.

17 Q. You don't have a specific
18 recollection, but if --

19 A. No, no.

20 Q. Okay.

21 A. That's 15 years ago.

22 Q. It is.

23 A. Almost 15 years ago.

24 Q. Okay. And so, you don't
25 have any recollection of the meeting one way or

1 the other, though?

2 A. No, I don't think so.

3 Yeah.

4 Q. Nonetheless, is it
5 consistent with your understanding at the time and
6 Dr. Uzarowski's notes that the test strip was
7 rejectable and that it had failed because of the
8 gradation on 4.75 millimetres and the low lab
9 voids?

10 A. Yes.

11 Q. Low compaction. Does
12 that accord with your general understanding,
13 whether or not you were at the meeting?

14 A. I believe so. And also
15 probably because of the thickness, you know.

16 Q. Yeah. And he refers in
17 the last line, then, he says, "and the low
18 compaction."

19 A. Yes.

20 Q. That's what that refers
21 to?

22 A. That's correct.

23 Q. Actually, that's not the
24 thickness. Low compaction is different than that,
25 but that's an additional issue, is the 32

1 millimetre average as opposed to 40?

2 A. Correct. That's correct.

3 Q. Then if we could pull up
4 55 as well. And so, at the bottom of 54 and on to
5 55, on July 31, 2007 you e-mailed Dr. Uzarowski
6 attaching SMA nuclear density compaction test
7 results from the SMA test strip and stated:

8 "They are proceeding
9 ahead tomorrow on SMA.
10 SP12.5 looks okay
11 (compaction wise and mat
12 texture.)"

13 So, we know that means
14 Dufferin was going to start paving the main line
15 surface course with SMA asphalt the next day,
16 August 1. Do you recall where you got that
17 information?

18 A. From one of the
19 supervisors in the field, I believe, of Dufferin.

20 Q. One of the Dufferin
21 people. Got it. Do you recall specifically who
22 or --

23 A. No, I couldn't recall
24 who.

25 Q. All right. And do you

1 recall if you had any discussions directly with
2 Dufferin people or person about, you know, beyond
3 them telling you that they were going to proceed,
4 that they were doing this even though the test
5 strip failed?

6 A. No. I don't think I can
7 recall that, no.

8 Q. Okay. And you attach to
9 your e-mail the Golder 1640, and if we could pull
10 that up. This is attached to your e-mail and this
11 is an "Asphalt Nuclear Density Test Results
12 Summary." And there's just a few things I want to
13 ask about this because this was attached to your
14 July 31 e-mail about the test strip?

15 A. That's correct.

16 Q. So, the first thing is
17 near the top there it says, "Type of Mix:
18 SP19.0R15," not SMA. And then it says, "Average
19 Thickness: 32 mm." Can you --

20 A. That's probably a typo.
21 Clearly the average thickness is 32, which you saw
22 already that that's SMA. SP19 will not be that
23 thin, no.

24 Q. Okay. And --

25 A. And you could see it's a

1 ramp. There's a ramp. That's where the test
2 strip was being done.

3 Q. Right. So, under
4 Location, which is the third big column that has
5 then four columns underneath it, it says "Station"
6 and then "Direction" and below that it says
7 "Ramp"?

8 A. Yes, that's correct.
9 Yeah.

10 Q. And then it says "Lincoln
11 to Stone Church." That's the location. Is that
12 what you recall as being the location of the ramp
13 that you were talking about?

14 A. Yeah. That's probably
15 it, yeah. The ramp, yeah.

16 Q. Okay. And then it also
17 has the Date Paving on the far left column and
18 Date Cored. It says July 17, 2007 and then cored
19 on July 18, 2007, whereas we know the test strip
20 was in the 25th?

21 A. That's probably a typo,
22 too, yeah.

23 Q. And just when you
24 describe the way that this was -- earlier on you
25 described generally how the test results were

1 dealt with. Would these results have first have
2 been done by the technicians in handwriting and
3 then you translate it? Does that apply also to
4 the nuclear density test results?

5 A. That's correct, yeah, I
6 think, but we can make mistakes on these dates.
7 But obviously from the test results that you can
8 see here, it's very obvious that it is from the
9 test ramp, from the ramp, the test strip.

10 Q. Okay. And then on that
11 issue, there is -- the third column from the right
12 is MRD. What's that refer to?

13 A. That's the maximum
14 relative density. That is the one that we use to
15 calculate the percent compaction of the mats.

16 Q. Right. So, just to start
17 with that, every row below maximum relative
18 density has 2,342 kilograms per cubic metre. Is
19 that right?

20 A. That's right, yeah.

21 Q. So, that's the maximum
22 density --

23 A. Of the mat, yeah.

24 Q. Okay. And then to the
25 left of that, that's the actual, the in situ

1 density, that's the actual measurement. Is that
2 right?

3 A. That's correct. That's
4 the density measured by the nuclear density gauge.

5 Q. Right, so that's the
6 compaction that you're measuring per se?

7 A. That's correct.

8 Q. Okay. And so, does the
9 maximum relative density, does that tell you the
10 type of asphalt that you're dealing with?

11 A. It's not the type, but
12 that is the one that we use to actually measure
13 the compaction, and that is standard for all
14 our -- in asphalt paving. We use the maximum
15 relative density.

16 Q. Right. But does the
17 number change depending on the asphalt mix?

18 A. No. I believe this is an
19 average of the whole samples that was taken and
20 that's the one we use every day to refer to --
21 because you have to refer to something to get a
22 percent compaction and the BRD or the bulk is --
23 if you see, it's a bit loose, but the maximum
24 relative density is the maximum density of that
25 material --

1 Q. Does the maximum relative
2 density, does that vary between SMA, HL1, HL3,
3 SP19?

4 A. Correct, yeah.

5 Q. Okay. And does the
6 maximum relative density number of 2,342, does
7 that tell you which type of asphalt mix you were
8 dealing with here?

9 A. I'm not exactly sure
10 about what you're asking, but this is what we got.

11 Q. Okay. I'm asking if you
12 can tell whether it's SMA or SP19 or some other
13 mix based on the maximum relative density?

14 A. Yes. You could actually
15 tell if you compare it to the JMF. If it's close
16 to the job mix formula, then it could be, because
17 there's a big, big difference sometimes in if you
18 compare the maximum relative density of, let's
19 say, an SL8 or with SMA, you know.

20 Q. But you can't tell off
21 the top of your head, though, today, you're not
22 sure?

23 A. No, no. But it's most
24 likely this is the SMA. It is the SMA, I guess,
25 yeah.

1 Q. Okay. Then, to
2 summarize, despite the dates and the type of mix
3 listed, you believe that this was the results from
4 the test strip of SMA laid on the 25th of
5 July 2007?

6 A. That's correct, because
7 you could see that there's a core correction,
8 so --

9 Q. Yes. And what
10 significance is that?

11 A. It's because in practice,
12 the right way of doing, of determining, the
13 density of a mat is when we core, but this time,
14 because we're not allowed to do destructive
15 testing, which is coring, on SMA, we actually core
16 it and then compare it to whatever is the nuclear
17 density results that we have, so that is how we do
18 it.

19 Q. Okay, but how does that
20 assist you in determining that this is SMA from
21 the test strip? Are you saying the mere fact that
22 you have the core correction there?

23 A. Yes. It's because
24 afterwards, after the test strip, we never use
25 core correction because we never core. The SMA

1 was never cored. The main line, in the main line,
2 it was never cored, only on the test strip, yes.
3 That's why some of the results you could see there
4 there's a core correction of 000, which meant
5 there was no core, coring.

6 Q. Okay. But you did take
7 cores here, so why is there --

8 A. In the test strips, yes.

9 Q. So, why is there a core
10 correction here?

11 A. Because of the test
12 strip. We core in the test strip. This is a test
13 strip. It's not the main line that you're doing,
14 so we need to find out actually what is the
15 density of the mat itself because from practice
16 and experience, most of these technicians and
17 engineers know that the nuclear density gauge is
18 not exactly, you know. It's a guide for us most
19 of the time to see if we are within the range, but
20 the coring is very accurate in that to know the
21 density of the mats, because we actually test the
22 actual core in the lab.

23 Q. Right.

24 A. In comparison to an
25 equipment, which is a nuclear density gauge, you

1 know, from practice and experience, even if you
2 use the nuclear density gauge, if you move it
3 right maybe an inch or two, these numbers can
4 change, not significantly but you cannot get
5 exactly like what in the first year, 21.2145. You
6 cannot get that exact number. There will be a
7 difference, yeah --

8 Q. And then --

9 A. -- because of the way
10 these machines are set up.

11 Q. So, the core correction
12 of 7, you add that to 2,145?

13 A. Yes.

14 Q. In the top row?

15 A. Yes.

16 Q. You can see density
17 2,145, core correction is 7, you add 7 to 2,145
18 and that gets you 2,152?

19 A. That's correct, yeah.
20 Core correction could be negative or positive,
21 yeah.

22 Q. What you're saying is
23 that assists you here in, if I understand you
24 correctly, identifying that this was from the SMA
25 test strip?

1 A. That's correct, yeah.

2 Q. All right. And I think I
3 count in total 13 of 51 of these test results, the
4 compaction test results, being in the rejectable
5 range, so about a quarter of them. Is that
6 consistent with what you recall?

7 A. Is that test strip you're
8 talking about?

9 Q. Yes. This is the
10 document in front of us and you said you think
11 it's from the test strip.

12 A. Yeah, yeah. This is a
13 test strip, yeah.

14 Q. So, about a quarter of
15 them are in the -- actually, you know what? I
16 apologize. We should pull up the native of this.

17 A. Yeah, I think --

18 Q. It doesn't have next to
19 there the rejectable, so --

20 A. What I remember is that
21 there was a spreadsheet where I highlighted in
22 yellow or red the rejectables on --

23 Q. We were just going to
24 pull that up. It's just that that was produced as
25 a PDF, so they'll show up below, so we'll pull up

1 the native Excel which has the rejectable on
2 there. I should have done that in the first
3 instance. There we go.

4 A. Yeah, that's it.

5 Q. And, Registrar, if you
6 could just expand the left two -- thank you. So
7 that the dates show up. So, yeah, they're
8 highlighted --

9 A. Yes.

10 Q. -- as yellow as well as
11 certain of the stations that are located there?

12 A. Right, yeah.

13 Q. If you could scroll down
14 a bit as well to the bottom, all the rejectable
15 ones, and so you highlighted those. Is that
16 right?

17 A. That's right, yeah.

18 Q. Okay. And so, would
19 anything under 93 percent is rejectable except at
20 the longitudinal joints where it's under
21 91 percent. Is that right?

22 A. That's correct.

23 Q. Okay. And I appreciate
24 it's a test strip, but is 25 percent, what do you
25 take from that 25 percent rejectable?

1 A. What do you mean by 25?

2 Q. This is a test strip and
3 you already described that in a test strip the
4 purpose is to test and see if you can get it
5 right --

6 A. That's correct.

7 Q. -- and it's not uncommon
8 that it doesn't get it right?

9 A. That's correct.

10 Q. But if it's not a test
11 strip, what would you take from, you know,
12 25 percent of the compaction results being
13 rejectable?

14 A. I'm not sure where we're
15 going with that question, but this is a test
16 strip. That's it. I mean, it's not about actual
17 testing of the main line. That's what we have to
18 talk about, but the test strip, test strip.
19 Whatever --

20 Q. We'll get to the main
21 line, then.

22 A. Why it's highlighted
23 there about the rejection, I don't know how what
24 percent is that or what, but that is what we --
25 what I sent to Ludomir for his review to calculate

1 all this percentages. That's not my job. My job
2 is just to make sure that all this information are
3 passed to Dr. Uzarowski.

4 Q. Okay. We'll get to the
5 main line shortly, then.

6 If we could go back to the
7 overview document, image 55, please. And so, this
8 is the same day after you send Dr. Uzarowski your
9 e-mail that we were just talking about with the
10 test strip results. He, Dr. Uzarowski, e-mails
11 Mr. Janicas, Mr. Oddi and Philips, attaching the
12 test results that you had sent to him earlier.
13 And I won't read out the entire e-mail. If you
14 could take a look at that and I'll ask you a few
15 questions.

16 A. Okay.

17 Q. So, he lists a number of
18 issues. What amongst these caused you concern?

19 A. Well, the rejectable
20 areas that the test strip that we tested.

21 Q. Okay. He refers in there
22 to the air voids, the laboratory air voids?

23 A. No. This is the test
24 strip, the compaction.

25 Q. Well, he's referring to a

1 number of things in here. So, first, he says in
2 the second sentence:

3 "As discussed at a
4 meeting with
5 representatives of the
6 City of Hamilton and
7 Dufferin Construction on
8 Friday, July 25, the mix
9 did not meet the specific
10 requirements. The
11 laboratory air voids at
12 end design and the
13 percentage of the
14 material passing the 0.05
15 millimetre sieve are in
16 the rejectable zones."

17 A. I corrected him that
18 that's the 4.75, yes.

19 Q. That's right. You did
20 that shortly after?

21 A. Yeah.

22 Q. I understand that, so
23 that's fine. But first he talks about the
24 laboratory air voids at end design?

25 A. Correct.

1 Q. So, what about that?

2 A. That was the one that we
3 did, the samples that we tested for the test
4 strip, that I think it's 1.7 that previously was I
5 think you showed that 1.7, the air void was too
6 low.

7 Q. Okay. And when the air
8 voids are too low, what does that mean? What
9 problem does that --

10 A. It does not meet the
11 requirement of 4 percent.

12 Q. Right. And what can
13 result from that? Is there some -- what's the
14 negative effect of having air voids that are too
15 low?

16 A. It's too tight. The
17 compaction is too tight. And I'm not supposed to
18 interpret a lot of this, but from experience if
19 you have very low air voids, let me just say
20 there's no more space for more compaction after
21 in-service. Maybe Dr. Uzarowski will correct me
22 with this, but he's more -- he has more experience
23 in a lot of this because he attended a lot of
24 these conferences.

25 Q. We're just talking about

1 your experience, though.

2 A. Yeah, my experience --

3 Q. So, your experience, so
4 go on. So, it has a compaction effect and what
5 result?

6 A. The compaction is too
7 tight.

8 Q. And if the compaction is
9 too tight, what does that cause?

10 A. It means there's not
11 enough air voids, because for in-service, for long
12 run, you need a certain amount of space in the mix
13 itself when compacted, so that traffic, it will
14 squeeze and squeeze, you know, so the ideal one
15 actually is 4 percent.

16 Q. Right. I understand that
17 it doesn't then meet the requirements. What is
18 the effect of that on performance of the pavement?
19 Can it cause a problem with durability?

20 A. It could. It could. It
21 could.

22 Q. What about flushing of
23 asphalt cement to the top of the pavement?

24 A. It could.

25 Q. Okay. And what does that

1 cause? If there's a flushing of asphalt cement to
2 the top of the pavement, what does that result in?

3 A. It could because of
4 the -- as I explained before during the first
5 interview, asphalt cement is actually like
6 physical properties like water and an aggregate is
7 much, much heavier, so what happens is when a lot
8 of traffic goes on that, then it squeeze and
9 squeeze and the asphalt cement goes on top and
10 some of -- we call it bleeding, but in SMA I think
11 they call it fat spots.

12 Q. Fat spots?

13 A. Yeah. When I did this
14 SMA on Red Hill Valley, I have never seen any of
15 these fat spots ever. I would have taken a photo
16 of that.

17 Q. Right. You mean on the
18 actual main line paving?

19 A. I have never seen that.

20 Q. Okay. I was just asking
21 you what it could cause and you're saying you
22 didn't actually observe that on the main line?

23 A. No, I have never observed
24 anything. Otherwise I would have taken, because
25 that's my useful practice, if there's any

1 deficiency on the mat or defects, I would have
2 taken a photo of that and informed Ludomir right
3 away.

4 Q. Okay. Thank you. And on
5 that point, we know that Dufferin started the
6 paving of the main line on August 1, and I'm going
7 to show you compaction test results from that day.
8 Do you recall if you were onsite for the first day
9 of SMA paving?

10 A. I believe probably I was.

11 Q. I mean, I would have
12 thought it's the start of the surface course and
13 you're --

14 A. Yeah.

15 Q. -- there for Golder on
16 the QA role, presumably --

17 A. Most likely. There were
18 a lot of people there.

19 Q. Okay. And so, if we
20 could pull up Golder 1718.

21 THE REGISTRAR: Sorry,
22 counsel, would you like the native?

23 MR. LEWIS: Yes, please.

24 Thank you. Thank you for your attention to that.

25 BY MR. LEWIS:

1 Q. Okay. So, this is the
2 same type of test we were looking at before but
3 then for the test strip. This one is dated
4 August 1, 2007 for the date of paving for SMA. Do
5 you see that?

6 A. Yes.

7 Q. Okay. And so, this again
8 would fall into what you described. You would
9 receive the results from the technician performing
10 the nuclear density testing and you would put it
11 into the chart. Is that right?

12 A. That's correct.

13 Q. And then passed it on to
14 Dr. Uzarowski?

15 A. That's correct.

16 Q. All right. And if we
17 scroll down, we'll see at the very bottom it says:

18 "Stretch vibrated, 1,300
19 metres, stretch not
20 vibrated, 1,950 metres,
21 total paved,
22 3,250 metres."

23 And it gives the start of the
24 vibration at 23 plus 800. Do you see that?

25 A. That's correct.

1 Q. All right. And the 23
2 plus 800, that's what?

3 A. Well, it's just their
4 start vibration, but I can't recall about this.
5 But it says there start vibration.

6 Q. Right. And is that
7 typically something that is noted on Golder
8 nuclear density reports, whether vibration is
9 being used or not?

10 A. Most likely.

11 Q. Sorry, it is typical,
12 because it's not on any of the other reports?

13 A. That is not typical, no.

14 Q. It's not typical?

15 A. Not typical. It's most
16 likely that the technician just noted this, that
17 our technician in the field just noted this.

18 Q. If it's not typical, why
19 is your technician in the field noting it on this
20 particular day?

21 A. We might have some
22 conversation about maybe I would have asked him
23 to, if there's any unusual activity the contractor
24 is doing, you know.

25 Q. And what would be unusual

1 about that? Is that because you were not
2 expecting them to use vibration or is it because
3 you were expecting them to use vibration?

4 A. No, I was not expecting
5 using vibration because of what happened in the
6 test strip.

7 Q. Okay. And if we could
8 just scroll up a bit, there, you see on the
9 right-hand side it says "vibration started at this
10 location" and there's the notation under column C
11 of 23 plus 800, so that's the same indication as
12 to where the vibration started to be used, is your
13 understanding?

14 A. That's what this
15 spreadsheet is saying.

16 Q. Right. And then again,
17 the distances, what's being referred to there?
18 Can you tell from here where along the Red Hill it
19 is?

20 A. I can't recall. I cannot
21 recall this.

22 Q. All right. If we go up
23 to the top, so it's based on the station along
24 the --

25 A. Yeah.

1 Q. -- structure. Right?

2 A. This should reflect on
3 the contract documents where this area is. It
4 should be -- yeah.

5 Q. Right. On the contract
6 drawings?

7 A. Yeah, on the contract
8 drawings.

9 Q. All right. And do you
10 recall if you had any discussions with
11 Dr. Uzarowski about using the vibratory roller?

12 A. No. I just send this to
13 him.

14 Q. Okay. And, sorry, are
15 you saying that you did not have a discussion or
16 you just don't recall one way or the other?

17 A. No, I don't think I had.
18 It's when the SMA of paving is already in
19 progress, I just send all the results to him.

20 Q. All right. Sorry, my
21 screen just disappeared for a moment. And if we
22 go back to the bottom, again, it's the same
23 acceptable borderline and rejectable numbers that
24 we looked at before in the test strip; rejectable
25 of under 93 percent except on the longitudinal

1 joints where it's under 91 percent?

2 A. Yes.

3 Q. Okay. And there, as you
4 can see from this and if you want we can go back
5 over it, there's a lot of rejectable results here.
6 Is that fair?

7 A. Yeah, from the
8 spreadsheet.

9 Q. Right. Well, those are
10 the results that were obtained and the results
11 that you transcribed and the results that you sent
12 to Dr. Uzarowski. Right?

13 A. That's correct.

14 Q. Okay. And what did you
15 make of those results at the time?

16 A. None. I just send this
17 for his review.

18 Q. I understand that that's
19 what you did. Did you form a view about these
20 results at that time?

21 A. No.

22 Q. None at all?

23 A. None at all.

24 Q. Okay. Are those good
25 results, poor results or indifferent results?

1 A. Well, these are
2 different. There is centre edge and this is
3 outside edge and whatever is what the spreadsheet
4 says that it is. It is what it is.

5 Q. It is what it is. I
6 appreciate that. And you have indicated where
7 they are acceptable, borderline or rejectable and
8 there's a lot of rejectable results. Is that
9 something that's usual or unusual in your
10 experience?

11 A. It happens. In my
12 experience, it happens.

13 Q. Sorry, it happens or
14 happened?

15 A. It happens. It happens.

16 Q. Does it happen
17 frequently?

18 A. I can't say about
19 frequently, but in my experience it happens.

20 Q. And do you have a view on
21 these results now if you didn't at the time?
22 Looking at them now, do you have a view about the
23 quality of these results with the number of them
24 being rejectable?

25 A. Well, this is what it

1 says here, that they are rejectable, acceptable
2 and outside edge.

3 Q. Okay.

4 A. This is a spreadsheet, so
5 some are okay, some are not --

6 Q. Well, about 53 of 99 are
7 in the rejectable category, as you took it down,
8 so what do you think about that?

9 A. Could be concern, yeah,
10 but I never, you know, as what you're saying,
11 53 percent, I never do that. I just send all the
12 results to Ludomir and he has to make an
13 assessment after reviewing what to do with it.

14 Q. Right. And this
15 placement remained in place, though. Right? It
16 wasn't removed. There was never any part of the
17 SMA main line that was removed after it was
18 placed. Is that correct?

19 A. I'm not aware of that.

20 Q. You're not aware --

21 A. Maybe. Maybe. I can't
22 recall. I can't recall.

23 Q. Isn't that something that
24 you would remember? I have to tell you we're not
25 aware of that having happened. Do you have any

1 different information?

2 A. I'm not sure. I'm not
3 sure SMA was removed from -- I'm not aware of
4 that.

5 Q. Right. And you were
6 onsite every day?

7 A. Yeah.

8 Q. So, you would know.
9 Right?

10 A. I'm not aware that an SMA
11 stretch was removed. Otherwise, I would probably
12 have make a photo of it if it was being removed.

13 Q. Okay. And if you didn't,
14 then --

15 A. Then there's no photo of
16 that, then I don't think it was removed.

17 Q. Okay. The next one is
18 August 3, if we could pull up Golder 1717. And,
19 sorry, this is also the native, if we could. As
20 always, I appreciate the Registrar training me on
21 these issues. Thank you.

22 These are the nuclear density
23 compaction results from August 3, so two days
24 later. And do you recall if you were there on the
25 3rd of August for the paving?

1 A. Yeah, most likely I was
2 there.

3 Q. Okay. I appreciate it's
4 a long time ago. You don't have a specific
5 recollection, but you were doing the temperature
6 measurements and so forth, so likely that you were
7 there. Right?

8 A. Yes.

9 Q. Sorry, is that a yes?

10 A. Yes, yes. That's
11 correct, yeah.

12 Q. And it's the same thing,
13 these are the same type of results and you would
14 have gone through the same process of transcribing
15 and sending to Dr. Uzarowski. Is that right?

16 A. That's correct.

17 Q. Okay. And at the bottom
18 you'll see, unlike on the 1st, there's no notation
19 about whether the vibratory roller was used or
20 not. Do you know if it was used on August 3?

21 A. I'm not aware.

22 Q. Not one way or the other,
23 you don't know?

24 A. No. I can't remember.

25 No.

1 Q. Okay. And from what I
2 understood you to say before, this is the typical
3 way you would reflect the results, is that you
4 wouldn't mention one way or another whether
5 vibratory roller was used or not?

6 A. No, no, no. In fact, I
7 was even surprised that there was a mention of
8 that, because what I know is that after we did the
9 test strip and vibratory, vibration was used, I
10 believe we were -- I don't know if we were
11 discussing it, but the best way to actually
12 mitigate the breakdown of the coarse aggregate is
13 not to use vibration and just use, you know, more
14 rollers and especially close to the paver when
15 it's still hot because SMA is difficult to
16 compact. So, I believe Dufferin added more
17 rollers in that event.

18 Q. Right. As the paving
19 progressed, they used more rollers and pushed them
20 up closer to the paver. Is that right?

21 A. That's correct, yeah,
22 when it is still hot.

23 Q. Right. Okay. And if we
24 could go to overview document 3, image 58, please.
25 And it's paragraph 119 on image 58 when

1 Dr. Uzarowski e-mailed Mr. Oddi along with
2 Mr. Phillips and you indicating a concern about
3 low compaction and he indicates:

4 "There are quite a few
5 locations where SMA
6 compaction is low. Some
7 are even below
8 91 percent. We are
9 concerned about these
10 locations. Low
11 compaction is almost a
12 constant issue with the
13 SMA paving. We suggest
14 additional nuke
15 compaction testing at
16 these locations in the
17 presence of contractor's
18 representative and then
19 the representatives
20 decide what to do. The
21 feasible alternative
22 would be to reduce the
23 pavement based upon
24 percent compaction."

25 And if we could pull up the

1 native version of Golder 1714, and these are the
2 results from August 7, so it's the day prior to
3 Dr. Uzarowski's e-mail there. And, again, this is
4 the same type of nuclear density test results
5 summary that we were looking at before and that
6 you were involved in transcribing and sending then
7 to Dr. Uzarowski. Is that correct?

8 A. That's correct.

9 Q. And we'll see, if we
10 scroll down, Registrar, slowly, that there's fewer
11 rejectable results, more of them are acceptable,
12 but these are the results that Dr. Uzarowski is
13 referring to there. And if you go right to the
14 bottom there, Registrar. Thank you. And, again,
15 we see the percentages referred to about the
16 acceptable, borderline and rejectable. Do you
17 recall if you shared Dr. Uzarowski's concerns at
18 the time about the low compaction being almost a
19 constant issue at that time?

20 A. At that time, I can't
21 recall, no.

22 Q. Then is it you were
23 describing how Dufferin ultimately dealt with the
24 issue?

25 A. I believe so, yes.

1 Q. Okay. And then just
2 before the morning break, Commissioner, I just
3 want to advise that you recall last week we made
4 RHB927 Exhibit 24 during Dr. Uzarowski's
5 examination, and that is Mr. Delos Reyes'
6 evidence-in-chief respecting the asphalt test
7 results issues referred to in overview document 3,
8 paragraph 27, and that's to do with the results
9 and discussion on the 21st of August 2007 and some
10 confusion over labelling of asphalt test results,
11 and that's dealt with through his evidence
12 in-chief at his affidavit at Exhibit 24.

13 JUSTICE WILTON-SIEGEL:

14 Mm-hmm.

15 MR. LEWIS: Dr. Uzarowski's
16 affidavit on the top, being Exhibit 23. I'll be
17 moving to a new topic after the break, being the
18 MTO skid testing arrangements, and so maybe this
19 would be a good time to take the morning break?

20 JUSTICE WILTON-SIEGEL: Yes.

21 MR. LEWIS: I was just going
22 to suggest if the Registrar could put counsel into
23 the all counsel room immediately so we can just
24 discuss timing of their questions and subsequent
25 witnesses.

1 THE REGISTRAR: Okay. Thank
2 you, counsel. I will do.

3 JUSTICE WILTON-SIEGEL: Good.
4 So, otherwise, we'll stand adjourned until 11:41.
5 --- Recess taken at 11:26 a.m.
6 --- Upon resuming at 11:42 a.m.

7 BY MR. LEWIS:

8 Q. Mr. Delos Reyes, we know
9 that you were involved in arranging the logistics
10 of the MTO's skid testing on the Red Hill Valley
11 Parkway that ultimately took place on the 16th of
12 October 2007. Is that correct?

13 A. That's correct.

14 Q. Okay. And --

15 A. Just to interrupt a bit,
16 what do you mean by logistics?

17 Q. Just arrangements.

18 A. Oh, arrangements. Okay.

19 Q. Fair question. If we
20 could go now to overview document 4, Registrar,
21 image 59. Sorry, that's the wrong one. My
22 apologies. Hold on. You took us to the right
23 place, but bear with me. It's 53 and 54.

24 And in paragraph 124(b), (c)
25 and (d), there's references to the arrangements

1 being made, and so this is on October 2.
2 Dr. Uzarowski e-mails Chris Raymond of the MTO in
3 response to an earlier e-mail and he states:

4 "Thank you very much,
5 Chris. We really
6 appreciate it. Andro, as
7 you're on the parkway
8 today, could you please
9 contact Chris and let him
10 know what the best
11 current access is?
12 Please check the parkway
13 for any obstacles like
14 line painting, road work,
15 et cetera, and let Chris
16 know."

17 And then Mr. Raymond indicates
18 it might be best for you to coordinate access with
19 Frank, who is Frank Marciello, who operates the
20 skid trailer, and then Mr. Marciello e-mails you,
21 if we could go to the next image, 55, giving you
22 the information that they're going to require to
23 do the testing. This is just to situate you in
24 time here on October 2.

25 So, you recall this sort of

1 lead-in to the skid testing the MTO performed?

2 A. Yeah. If I recall, my
3 only -- what do you call it? Hard to say that in
4 English, but my participation in this is just to
5 ensure that the path that this machine is going to
6 take is clear of obstacles. And I have to ask
7 permission also from the stakeholders, like
8 Dufferin, who is the contractor there, and I'm not
9 sure if it's Philips, too, that they are going to
10 do any of this kind of testing.

11 Q. Right. And so, we go to
12 page 60. I think that's, bear with me for a
13 moment, image 55, please. At paragraph 126 at the
14 bottom, Mr. Marciello e-mails a number of people,
15 including you, that it's going to happen on
16 October 9. We know it didn't occur on that date
17 and it was on the 16th.

18 And then if we go to the next
19 image, he indicates at the very top:

20 "As discussed with Andro
21 Delos Reyes of Golder
22 Associates, I plan to be
23 at the Red Hill Valley
24 Parkway entrance at
25 Martin Street by

1 10:00 a.m."

2 And then at paragraph 127, you
3 forward that e-mail to Philips and Dufferin, as
4 you indicated you had to deal with the
5 stakeholders, and you indicated:

6 "Gentlemen, for your
7 information and
8 permission."

9 And I take it you have to make
10 sure that there's a clear path that the highway
11 isn't open yet, and so still there's construction
12 materials --

13 A. That's correct. That's
14 correct, yeah. That's correct.

15 Q. All right. And we know
16 it occurred on the 16th. Did you meet
17 Mr. Marciello for that eventually? Did you meet
18 him to --

19 A. I cannot recall if I met
20 him on that. No, I cannot --

21 Q. You didn't ride with him?

22 A. I don't believe so,
23 because we have our own vehicle.

24 Q. Right. I know, but this
25 is the actual skid tester. I'm asking were you

1 with him while he performed the testing or no?

2 A. No. I'm not even sure if
3 I was there during the testing. I'm not
4 100 percent sure if I was there, because the
5 reason I could say that because I'm a bit, not the
6 right word, but diligent. I usually take
7 photographs, photos, of events or -- what do you
8 call that? -- if something is going on which is to
9 document it if it is because, as you were asking
10 me before, I told you I'm not familiar with skid
11 testing since that is not standard in our asphalt
12 paving.

13 Q. Okay. Well, that's fine
14 and we'll get to that. So, you don't think you
15 were there. You think you probably would have
16 taken some photos if you --

17 A. Yeah. I went to my
18 archives and there was no photo of that equipment.

19 Q. Okay. And then if we
20 could go to image 59 and paragraph 136. We know
21 the testing occurred on the 16th, and then on the
22 17th you e-mailed Mr. Marciello stating:

23 "Just a reminder, please
24 e-mail test result as
25 discussed. Dufferin and

1 Philips Engineering are
2 highly interested."

3 So, do you recall who you had
4 discussed with at Dufferin and Philips about their
5 interest?

6 A. I don't know the right
7 person, but what I know maybe I was in the field
8 at the time and one of these people were in the
9 field and I just mentioned most likely that
10 there's going to be skid testing that's going to
11 happen and they said they probably replied to me
12 that they are interested in the test results.

13 Q. Okay. So, fair to say
14 since you wrote it --

15 A. Yeah.

16 Q. -- you likely would have
17 spoken to someone who told you that they were
18 interested, but you don't recall specifically --

19 A. No, no.

20 Q. -- who that person or
21 people were?

22 A. No. Yes. That's
23 correct. That's correct.

24 Q. Okay. You used the term
25 "highly interested," which suggests a high level

1 of interest. Is there any further insight you can
2 give us into that?

3 A. Maybe just the word that
4 I used.

5 Q. Okay. But you don't
6 recall at this time?

7 A. No, no, no, no. That's
8 why I'm trying to emphasize that my only role in
9 that skid testing, since I'm not familiar with
10 that kind of test, is that to make sure that the
11 skid testing will be done and without obstruction.

12 Q. Right. And I get that,
13 that you were only involved in organizing and
14 making sure that the testing occurred and that you
15 weren't familiar with skid testing, but you are
16 familiar with talking to the people and it's your
17 e-mail saying that they were highly interested, so
18 I'm simply asking whether you recall what the
19 reason was for their high level of interest?

20 A. They probably just talked
21 a bit that they may need the test results, so...

22 Q. Okay.

23 A. Yeah.

24 Q. And you say to
25 Mr. Marciello that it's just a reminder, please

1 e-mail test results as discussed, Dufferin and
2 Philips Engineering highly interested. When you
3 say "just a reminder," are you saying a reminder
4 to e-mail the test results or a reminder that
5 Dufferin and Philips are highly interested?

6 A. No. Just a reminder that
7 they need test information.

8 Q. Sorry, they being who?

9 A. Whoever was the people I
10 was talking to in the field, which --

11 Q. At Philips and Dufferin?

12 A. Yes, yes.

13 Q. All right. And then at
14 image 62 at the bottom paragraph of 139, on
15 October 18 Mr. Chris Raymond at the MTO e-mailed
16 to you and Dr. Uzarowski the MTO's friction test
17 results that they conducted on October 16. And
18 did you do anything with the test results after
19 you received them?

20 A. Probably just report
21 information to me and, as I have told you the last
22 meeting we have, that I'm not familiar with this
23 test. To me, it's just a number.

24 Q. Okay. So, number one,
25 did the test results mean anything to you at all?

1 A. None.

2 Q. Did you discuss the
3 results with Dr. Uzarowski after receiving the
4 results?

5 A. No.

6 Q. Did you discuss the
7 results with anyone else?

8 A. No.

9 Q. Did you send the results
10 to Dufferin or Philips?

11 A. I'm not sure if I have
12 done that, but most -- I'm not sure. Maybe
13 Ludomir has sent it to them, but --

14 Q. I'm asking if you did.
15 We don't see it in the e-mails, but did you -- we
16 don't have any e-mails. Do you recall if you sent
17 it to Dufferin or Philips?

18 A. I cannot recall. I
19 cannot recall.

20 Q. Okay. Do you recall
21 speaking to Dufferin or Philips about the results?

22 A. I don't recall that.
23 Since I don't have any expertise in skid testing,
24 so most probably I will not be talking something
25 which I don't really have experience.

1 Q. All right. And were you
2 aware in any subsequent years of any skid testing
3 the MTO performed on the Red Hill Valley Parkway?

4 A. None. After --

5 Q. After October 16, 2007?

6 A. No. I don't think I
7 have -- I was already assigned in a lot of
8 projects, maybe in the Caribbean, so that was it
9 for me.

10 Q. You mean once the paving
11 was done and this project was done and the skid
12 testing was done, you were done with the Red Hill
13 Valley Parkway once the lab was wrapped up?

14 A. Yeah, yeah. That's
15 right. Yeah.

16 Q. All right. And have you
17 ever been involved in a project before this one
18 where skid testing was performed?

19 A. No. That's why I said
20 I'm not familiar with this type of test. As I
21 explained to you before that this is not standard
22 testing for most of the -- all the projects that
23 I've been on asphalt paving, skid testing is not a
24 standard test, so that's why when you interviewed
25 me before, this was my first time to really see

1 this kind of testing.

2 Q. And, as you said, it was
3 unusual. Did you, at any point, talk to
4 Dr. Uzarowski about why the skid testing was being
5 performed?

6 A. No.

7 Q. Or with, say, Frank
8 Marciello, since you spoke to him?

9 A. No.

10 Q. No? Okay.

11 A. No.

12 Q. Thank you,

13 Mr. Delos Reyes.

14 Commissioner, I don't have any
15 further questions at this time, so subject to any
16 questions you have.

17 JUSTICE WILTON-SIEGEL: Yes.

18 Mr. Delos Reyes, I just have a couple of
19 questions. I wanted to understand a little bit
20 more about the process by which the original mix
21 design samples were prepared and provided to you.
22 I assume it was Trow who would have mixed the
23 asphalt. Is that correct?

24 THE WITNESS: Yeah. I believe
25 Trow was the designer, yeah.

1 JUSTICE WILTON-SIEGEL: And
2 so, were they responsible generally for the
3 preparation of the asphalt that was to be laid
4 down?

5 THE WITNESS: No.

6 JUSTICE WILTON-SIEGEL:
7 Dufferin did it?

8 THE WITNESS: Yeah, Dufferin
9 did it. In my experience, the designer just,
10 they're given all these materials and then they do
11 the mix and see if it missed the parameters. And
12 if it meets the parameters required in the
13 contract documents, then that would be the mix
14 design.

15 JUSTICE WILTON-SIEGEL: So,
16 would they be giving you samples at the same time
17 as they were receiving samples from Dufferin?

18 THE WITNESS: No. The samples
19 already -- I mean, not Trow exactly, but Dufferin
20 will give us a sample based on their mix design,
21 yeah.

22 JUSTICE WILTON-SIEGEL: Okay.
23 So, when you're talking about the samples that you
24 tested that created the problems of correlation
25 between the two tests, and I guess we're talking

1 in or about July 10, that would be on the basis of
2 samples that Dufferin had given you. Is that
3 correct?

4 THE WITNESS: That's correct,
5 yes. It's because of the samples -- because we
6 were -- the problem was because we were doing a
7 different system, which is we were using ignition
8 and Dufferin was using a different kind of system
9 called solvent that made a bit of a problem.

10 JUSTICE WILTON-SIEGEL: And
11 how large a volume of sample would they have given
12 you?

13 THE WITNESS: For sampling for
14 what kind of -- for initial testing?

15 JUSTICE WILTON-SIEGEL: Yes.

16 THE WITNESS: Well, the usual
17 20 kilograms. It's most likely three or four of
18 that.

19 JUSTICE WILTON-SIEGEL: And I
20 was going to ask how many samples, so three or
21 four?

22 THE WITNESS: Three or four,
23 yeah. I can't recall how many samples they have
24 given us.

25 JUSTICE WILTON-SIEGEL: Then

1 you would have taken that and converted them into
2 the briquettes for sampling?

3 THE WITNESS: That's correct.

4 JUSTICE WILTON-SIEGEL: Okay.

5 That's all I wanted to know. Thank you.

6 MR. LEWIS: So, Commissioner,

7 I can advise we consulted with participants'

8 counsel.

9 JUSTICE WILTON-SIEGEL: Okay.

10 MR. LEWIS: And they don't

11 anticipate that their questioning will be terribly

12 long and counsellor agreed that counsel for the

13 City, Ms. Jenene Roberts, will go first, followed

14 by Mr. Bourrier for the MTO, Ms. McAleer for

15 Dufferin and then Ms. Jennifer Roberts for Golder.

16 JUSTICE WILTON-SIEGEL: Okay.

17 MR. LEWIS: And we expect that

18 this will take us well before the afternoon break

19 and we can address the timing of the next witness

20 at the conclusion of Mr. Delos Reyes' evidence.

21 JUSTICE WILTON-SIEGEL: Thank

22 you.

23 EXAMINATION BY MS. JENENE ROBERTS:

24 Q. Good morning,

25 Mr. Delos Reyes. My name is Jenene Roberts and

1 I'm counsel for the City of Hamilton. I just have
2 a few questions for you just following up on some
3 of the issues that you discussed this morning.

4 First, I just want to ask you
5 a little more about the issue of the correlation
6 between the test results between Golder and
7 Dufferin, so the solvent extraction versus the
8 ignition oven testing.

9 A. Yes.

10 Q. Am I right that that
11 correlation testing was not because of any sort of
12 concern with the SMA or with the aggregate that
13 was being used?

14 A. Yes. The correlation
15 because of the different system that we're using,
16 because different equipment that may not have the
17 same test results because of the one is using
18 solvent and the other one is just using high heat.
19 That is the main initial problem when we were
20 doing initially in the early phase of this
21 project.

22 Q. Okay, great. Then
23 ignition oven testing that you mentioned, you told
24 us more about that, and that occurs at a very high
25 temperature, you told us?

1 A. That's correct.

2 Q. And if I'm understanding
3 your evidence correctly, the aggregate breakdown
4 that you saw in that high temperature ignition
5 oven testing, your expectation was that the
6 pavement would never reach those types of
7 temperatures. Correct?

8 A. That's correct, because
9 in the plant where the contractor is doing it and
10 in my experience, it will never reach that. Most
11 likely usually it's around 180 degrees, the
12 maximum where the aggregate is being heated.

13 Q. Okay. So, that means
14 that the breakdown that you were seeing in the
15 ignition oven, you wouldn't expect that breakdown
16 to actually happen when the pavement was being
17 laid?

18 A. Definitely not, no.

19 Q. Okay. And then another
20 type of testing you spoke of this morning was the
21 Micro-Deval testing, and I think you explained to
22 us that's meant to simulate how aggregate could
23 wear because of abrasion. Is that right?

24 A. That's correct.

25 Q. Okay. And the

1 Micro-Deval testing, that's intended to predict
2 what would actually happen in real life once the
3 pavement is laid. Is that right?

4 A. That's correct.

5 Q. Okay. And if we could
6 just look at OD chapter 3, image 51, please. And
7 the e-mail that's on the bottom there in
8 paragraph 103, if we could just call that out.
9 And, Mr. Delos Reyes, I'm just taking you to
10 something that commission counsel did ask you
11 about earlier. I just want to confirm in that
12 third paragraph there, you say:

13 "From these numbers, the
14 material seems to be
15 acceptable for use."

16 So, am I correct, then, that
17 based on the Micro-Deval testing you were seeing,
18 you considered the material to be acceptable at
19 that point in time, on July 18, 2007?

20 A. That's correct.

21 Q. Okay. We can take that
22 document down. I want to ask you now about some
23 other testing. And if we could call up Golder
24 1745, please.

25 THE REGISTRAR: Sorry,

1 counsel, is that a native document?

2 MS. JENENE ROBERTS: It should
3 be an e-mail.

4 THE REGISTRAR: Okay. One
5 second. I apologize.

6 MS. JENENE ROBERTS: It's
7 probably something that wasn't in the OD. Maybe
8 that's why you're having some difficulties,
9 Registrar.

10 THE REGISTRAR: Yes. Sorry, I
11 don't have that one. I have 1746.

12 MS. JENENE ROBERTS: Okay. I
13 did want to go to 1746 afterwards, but 1745 is
14 meant to situate the witness because it's an
15 e-mail from you, Mr. Delos Reyes, to Dr. Uzarowski
16 attaching the results, but perhaps we can just
17 look at 1746, Golder 1746. Okay.

18 BY MS. JENENE ROBERTS:

19 Q. And, Mr. Delos Reyes,
20 perhaps you can, without seeing the e-mail, you
21 can confirm for me that these results relate to a
22 test batch of the SMA. Is that correct?

23 A. That's right.

24 Q. Okay. And am I right
25 that this includes the air voids, the asphalt

1 cement content and the gradation results for the
2 SMA test batch?

3 A. That's correct.

4 Q. And you understood at the
5 time that all of these results were acceptable and
6 met the specification. Correct?

7 A. Yes, that's right. And
8 just to -- this was done in our Whitby office
9 because at the bottom there it says that's a
10 Rotarex, not using solvent.

11 Q. Okay. Great. Thank you
12 for clarifying that. If we can please mark this
13 as the next exhibit. I believe we're at
14 Exhibit 30 now.

15 EXHIBIT NO. 30: Document
16 entitled "Superpave Hot
17 Mix Asphalt Concrete Test
18 Report," GOL1746.

19 BY MS. JENENE ROBERTS:

20 Q. Could we take a look next
21 at Golder 1636, please. And, Mr. Delos Reyes, I
22 just wanted to ask you about the top e-mail here.
23 And you're responding to Dr. Uzarowski here. The
24 second line of your e-mail, you say, "SP12.5 looks
25 good." What's the SP12.5 there?

1 A. As far as I can
2 recollect, this was probably being used in the
3 ramps.

4 Q. Okay. So, am I right,
5 then, that SP12.5, that's SP12.5 FC2?

6 A. FC2, yes.

7 Q. Okay, great. And if
8 we're looking at, this is July 31, your view at
9 the time was that the SP12.5 FC2 was looking good?

10 A. That's right.

11 Q. Okay, so you considered
12 the results for the SP12.5 FC2 to be acceptable as
13 of July 31, 2007?

14 A. That's correct.

15 Q. Great. And I think those
16 are all my questions. Thank you, Mr. Delos Reyes.

17 A. Thank you.

18 MR. LEWIS: So, I believe
19 next, Commissioner, would be Mr. Bourrier for the
20 MTO.

21 JUSTICE WILTON-SIEGEL: Okay.

22 MR. BOURRIER: Good afternoon,
23 Commissioner.

24 EXAMINATION BY MR. BOURRIER:

25 Q. Good morning,

1 Mr. Delos Reyes. I'm counsel for the Ministry of
2 Transportation. I have a couple questions for you
3 regarding the October 16, 2007 friction testing on
4 the Red Hill Valley Parkway. Mr. Lewis asked you
5 about that this morning.

6 Mr. Registrar, can you please
7 call up Golder 2619. And while this is being
8 called up, this is the e-mail from Chris Raymond
9 providing the October 16, 2007 friction testing
10 results to Dr. Uzarowski as well as copying you
11 and Frank Marciello from the Ministry of
12 Transportation.

13 You'll see that at the end of
14 the e-mail, Chris Raymond says:

15 "Should you have any
16 questions regarding the
17 results, please do not
18 hesitate to contact us."

19 Am I correct that you never
20 contacted Mr. Raymond at the Ministry of
21 Transportation after receiving these skid testing
22 from him?

23 A. I cannot recall, but the
24 previous interview that I had, what I can recall
25 clearly was that my involvement in the skid

1 testing was just to ensure that there's a clear
2 path for this machine to go through. That was my
3 role in that. And I believe I don't think,
4 because as I was emphasizing, I'm not familiar
5 with this kind of test and equipment, too. I'm
6 not familiar with that.

7 Q. Yes. I understand that.
8 So, you don't recall either sending this or
9 contacting Mr. Raymond by telephone?

10 A. I don't recall, yes. No.
11 Most of these things are most likely Ludomir who
12 would contact them.

13 Q. Right. And then I take
14 it as well, then, that you never contacted anyone
15 else at the Ministry of Transportation to
16 specifically discuss these results?

17 A. I doubt, because I'm not
18 familiar with it. I will never discuss something
19 which I'm not comfortable with. Those are just
20 numbers for me, so...

21 Q. Okay. Thank you very
22 much. Those are my two questions, Commissioner.

23 JUSTICE WILTON-SIEGEL: Thank
24 you.

25 MR. LEWIS: Thank you.

1 Commissioner, I believe Ms. McAleer is up next for
2 Dufferin.

3 MS. MCALEER: Good morning,
4 Commissioner.

5 EXAMINATION BY MS. MCALEER:

6 Q. Good morning,
7 Mr. Delos Reyes.

8 A. Good morning.

9 Q. My name is Jennifer
10 McAleer. I'll one of the lawyers representing
11 Dufferin on this public inquiry. I only have two
12 areas of questions for you this morning. The
13 first is with respect to the vibratory rollers.
14 You'll recall that Mr. Lewis asked you this
15 morning a number of questions about vibratory
16 rollers and I understood you to say that it is
17 standard practice not to use vibratory rollers on
18 bridges. Do you remember giving that evidence?

19 A. Yeah, yeah.

20 Q. Okay. And, at the time
21 that the Red Hill Valley Parkway was constructed,
22 I take it you were familiar with the Ontario
23 Provincial Standard Specifications?

24 A. Not 100 percent. But
25 just remember I retired 2016, so I probably will

1 not be able to recall a lot of this
2 specifications.

3 Q. Don't worry, sir. I have
4 no intention of testing your memory as to the
5 contents of those documents. But I did want to
6 see if we could get a bit more clarification about
7 that point by pulling up the OPSS 310.

8 And, Mr. Registrar, that is a
9 document that I believe my colleague Ms. Laurion
10 e-mailed to you this morning. It's HAM3104 and I
11 believe it has been uploaded. So, it's HAM3104.
12 Thank you, Mr. Registrar.

13 So, Mr. Delos Reyes, if you
14 look at this document, this is the OPSS 310 and if
15 we look at the bottom of the page, you'll see that
16 this was one that would have been applicable at
17 the time because this is the 2004 version. Do you
18 see that?

19 A. That's correct, yes.

20 Q. All right. Now, is this
21 a document you would have been familiar with back
22 in 2007?

23 A. Most likely.

24 Q. All right.

25 Mr. Registrar, if we could go to image 11 of that

1 PDF. And about two-thirds of the way down the
2 page, Mr. Delos Reyes, you'll see the heading
3 Vibratory Rolling?

4 A. That's correct.

5 Q. Do you see that?

6 A. Yes.

7 Q. And it says:

8 "For all HMA being
9 compacted on bridge
10 decks, vibratory rollers
11 shall be operated in
12 static mode."

13 Do you see where I'm reading?

14 A. That's correct.

15 Q. Okay. And when we say
16 HMA, that's hot mix asphalt. Is that correct?

17 A. That's correct.

18 Q. And that would include
19 SMA?

20 A. I assume, yes.

21 Q. And my understanding,
22 Mr. Delos Reyes, is that with the exception of
23 bridges, there is no other prohibition in the OPSS
24 standards with respect to the use of vibratory
25 rollers with hot mix asphalt. Is that your

1 understanding as well?

2 A. Well, in my experience,
3 in most, not all, maybe, I can't remember, but in
4 the jobs that I have undertaken, the contractor
5 never actually vibrates a hot mix asphalt on top
6 of -- because there's still a thin layer that's
7 being laid on a bridge. They never vibrate. They
8 never use vibration. They always use -- compact
9 it in static mode.

10 Q. Right. I understand
11 that. My question is a little bit different. So,
12 my question is that from my review of the OPSS
13 standards, this section that deals with bridges is
14 the only place in the OPSS standards that actually
15 has a prohibition with respect to vibratory
16 rolling. They specifically say you can't do it on
17 bridges?

18 A. That's right, you cannot.
19 Yeah.

20 Q. Right. But nowhere else
21 in the OPSS does it say anything about when you
22 can use vibratory rolling with HMA. Is that
23 correct?

24 A. That's my understanding,
25 but I'm only talking about from the experience I

1 have, that I've never seen a contractor use a
2 roller with vibration. It's always in static mode
3 whenever they -- that is my experience whenever
4 they try to compact a thin layer of hot mix
5 asphalt, SMA, laid on top of a bridge.

6 Q. Okay. That's fine.
7 Thank you. Mr. Registrar, you can take down that
8 document.

9 So, my only other question for
10 you, and it's really a clarification with respect
11 to some of the evidence you gave this morning,
12 you'll recall that Mr. Lewis took you to some
13 photographs that you had taken of the core samples
14 from the test strip that was done on July 25.
15 And, Mr. Registrar, those photos, if we could
16 bring both of them up, please, at the same time.
17 It's Golder 1738 and Golder 1739. Thank you.

18 And I just want to make sure I
19 understood your evidence this morning. You were
20 asked some questions about the aggregate breakdown
21 and it was a little unclear to me, sir, but were
22 you saying that the aggregate breakdown that you
23 see in these photos is not in the SMA layer but is
24 in the layer below the SMA layer?

25 A. It's the SMA I'm talking

1 about.

2 Q. You are talking about the
3 SMA?

4 A. SMA, yes.

5 Q. All right. Thank you for
6 clarifying that.

7 I'm being reminded,
8 Mr. Commissioner, that I did not mark the OPSS
9 standard that I just referred to as an exhibit.

10 JUSTICE WILTON-SIEGEL: Okay.
11 Thank you.

12 MS. MCALEER: If that
13 document, OPSS 310, which is the Hamilton
14 document 3104, if that could be marked as the next
15 exhibit, please. I think it's Exhibit 31,
16 Mr. Registrar.

17 THE REGISTRAR: Yes, counsel,
18 I'm just confirming it's 31.

19 EXHIBIT NO. 31: OPSS
20 310, HAM3104.

21 MS. MCALEER: Thank you. If
22 we could take down the image of the two samples,
23 please.

24 BY MS. MCALEER:

25 Q. Thank you,

1 Mr. Delos Reyes. Those are all of my questions.

2 Thank you, Mr. Commissioner.

3 MR. LEWIS: And then last
4 counsel up is counsel for Golder, Jennifer
5 Roberts.

6 MS. JENNIFER ROBERTS: Good
7 afternoon, Commissioner.

8 EXAMINATION BY MS. JENNIFER ROBERTS:

9 Q. Mr. Delos Reyes, I just
10 want to go back to the issue of compaction,
11 Mr. Delos Reyes. So, Registrar, may I please ask
12 you to pull up Golder 1685 and 1684. Can you
13 please put them in native format as well. I think
14 maybe let's look first at 1685. There we go.
15 Thank you.

16 So, Mr. Delos Reyes, this is
17 another of the compaction testing and am I reading
18 it correctly that this is testing done on
19 August 11?

20 A. That's what it says
21 there.

22 Q. Okay. And if we can
23 scroll down the lines, so you gave evidence
24 earlier this morning that Dufferin changed its
25 compaction technique. Do you remember saying

1 that?

2 A. I believe so, yes.

3 Q. Okay. And when you look
4 at these results, does this reflect Dufferin's
5 changed technique and a more successful outcome
6 for compaction?

7 A. I believe so, yes.

8 That's correct.

9 Q. Thank you. Can we please
10 turn up 1684. Thank you. And, again, I think
11 this reflects testing on August 13. Is that how
12 you read it?

13 A. Yes.

14 Q. Okay. And again, if we
15 scroll down, I think we've got universal
16 acceptable levels of compaction. Is that how you
17 read it?

18 A. Yes.

19 Q. Okay. And, sorry,
20 Registrar, can you go back up a little bit and
21 maybe make it a tiny bit smaller so we can see the
22 whole thing. Is that possible?

23 Mr. Delos Reyes, can you see
24 all of that?

25 A. I'm trying to.

1 Q. All right. So, my
2 question is: Do you gain a sense when you read in
3 column C, the Stations, how much paving that
4 reflects?

5 A. If you go on the top and
6 then you deduct the one at the bottom, that's 22
7 plus 700. And then at the bottom there, it would
8 be -- what's the bottom station?

9 Q. Can we go to the bottom
10 line, please?

11 A. That's 28. That's
12 almost, what, 6 kilometres?

13 Q. Right.

14 A. Multiplied by 5 point
15 something, 5.8, I guess.

16 Q. I think your math is
17 exactly accurate, sir. So, do you remember how
18 long the Red Hill Valley Parkway SMA paving was?

19 A. Around 7.5, if I'm
20 correct. I'm not very sure, but that's what I
21 know from the contract document, if I'm right.

22 Q. That's about it. And
23 then am I right in understanding this compaction
24 that this reflects compaction for a significant
25 majority of the Red Hill Valley Parkway?

1 A. That's what it says in
2 the spreadsheet.

3 Q. Thank you. Registrar,
4 you can pull that down. Thank you very much.

5 JUSTICE WILTON-SIEGEL: Can I
6 just ask before you do that, this one is for the
7 southbound lanes. Is that correct?

8 THE WITNESS: Yes.

9 JUSTICE WILTON-SIEGEL: So,
10 it's a significant portion for the southbound
11 lane?

12 MS. JENNIFER ROBERTS: Right.

13 JUSTICE WILTON-SIEGEL: Is
14 that the way we should read this evidence?

15 MS. JENNIFER ROBERTS:
16 Registrar, do you want to go back up? I think
17 that's right, but let's go up to the top.

18 JUSTICE WILTON-SIEGEL:
19 There's a little bit of northbound lane in there
20 as well.

21 MS. JENNIFER ROBERTS: Right.
22 So, let's just go to Golder 1685 and see if we can
23 match that.

24 JUSTICE WILTON-SIEGEL: Just
25 before we do that, is it continued? The

1 northbound lanes in the middle, if we drop that,
2 we go from 24 plus 200 southbound lane to 25 plus
3 200 southbound lane? I'm not quite understanding.
4 It doesn't look like it's continuous.

5 MS. JENNIFER ROBERTS: We've
6 got the station 22, 700 southbound lane, and then
7 you're right, there's some instances of northbound
8 lane there and then we pick up again southbound
9 lane, 25, so it's not continuous. I think if we
10 go to the testing that was done on the 11th, that
11 might fill in the gap.

12 JUSTICE WILTON-SIEGEL: Why
13 don't we look at the 11th?

14 MS. JENNIFER ROBERTS: So,
15 Registrar, that would be 1685, please. So, is
16 this all southbound? Can you scroll down,
17 Registrar, please. Right. So, you would have to
18 match them together to get a complete -- to, sort
19 of, fill in whatever the gaps are in the testing
20 that was done on the 13th.

21 JUSTICE WILTON-SIEGEL: Right.
22 And this is all southbound lanes still?

23 BY MS. JENNIFER ROBERTS:

24 Q. Mr. Delos Reyes?

25 A. Yes.

1 Q. That's how I read it. Is
2 that how you read it?

3 A. That's right. That's
4 right.

5 JUSTICE WILTON-SIEGEL: So, is
6 it worth going back to the other two to see if
7 they're northbound lanes?

8 MS. JENNIFER ROBERTS: I don't
9 know that we have complete records of the testing.

10 JUSTICE WILTON-SIEGEL: We
11 don't have complete records of the testing.

12 MS. JENNIFER ROBERTS: And
13 that's, you know, we're going back to work that
14 was done in 2007. There are gaps in the evidence.
15 Okay.

16 JUSTICE WILTON-SIEGEL: Okay.

17 MS. JENNIFER ROBERTS: Thank
18 you, Registrar. Commissioner, any other questions
19 on that?

20 JUSTICE WILTON-SIEGEL: No, I
21 don't have any more questions on that.

22 MS. JENNIFER ROBERTS: Okay.

23 BY MS. JENNIFER ROBERTS:

24 Q. Then just two points that
25 I wanted to raise. Mr. Delos Reyes, we've talked

1 a lot about the SMA asphalt on the main line?

2 A. That's right.

3 Q. Was the same asphalt mix
4 also put on the ramps?

5 A. No. This is the -- the
6 ramp, I believe, was the FC2 12.5. That's what I
7 remember that being used in the ramp.

8 Q. Okay. Thank you. And
9 then last question, sir. You mentioned this
10 earlier, but at the completion of the paving, did
11 you observe any fat spots or flushing on the Red
12 Hill Valley Parkway?

13 A. None at all. None. As I
14 previously said already before, never. Otherwise,
15 I would have taken a photo of that and sent it to
16 Ludomir, because that is a defect. So, I have not
17 seen that on the SMA.

18 Q. Thank you. And, just for
19 clarity and explanation, can you describe for us
20 what a fat spot or flushing is?

21 A. That's when the air voids
22 sometimes is very low, so there's no more space
23 for the liquid asphalt, so the tendency is for it
24 to, you know, push up and create that -- on a
25 strip, they call it bleeding, but on this case,

1 they call it fat spots, yeah. Mm-hmm. Yeah.

2 Q. Okay.

3 A. And it's very obvious.

4 You will see it right away if there's any defect
5 on that.

6 Q. Okay. And can I just ask
7 you in your experience what did you observe of the
8 quality of the asphalt mat for the SMA asphalt on
9 the Red Hill Valley Parkway?

10 A. It is actually even the
11 photos that I have taken, you could see that even
12 I made a photo close-up of the texture of the mat
13 and at the same time where I took the photo of the
14 close-up, I took it longitudinally. But you could
15 see that the mat is -- I mean, it really looks
16 good. I don't see anything, you know. There's no
17 -- I've not seen any defect on that, in the
18 segregation, which actually, in my experience,
19 that's the first thing we have to see as an
20 inspector because that's the first thing that you
21 have to know after the paver. You have to make
22 sure that, you know, the supervisors know about --
23 because the segregation is a big problem in
24 paving, especially like the bigger stones. But on
25 the SMA, I've never seen that. I've never seen

1 segregation at SMA.

2 Q. Thank you,

3 Mr. Delos Reyes. Those are my questions.

4 MR. LEWIS: I wonder if I
5 could just ask one follow-up question on the
6 August 13 compaction results. So, Registrar, this
7 is Golder 1684, and I guess the native. Thank
8 you.

9 FURTHER EXAMINATION BY MR. LEWIS:

10 Q. And we were looking at
11 the southbound and northbound lanes, the direction
12 being southbound and northbound. To the right,
13 the next column of that is the lane and here it
14 shows lane 3 all the way down. I see that all of
15 the compaction reports show the lanes. Does this
16 mean that it's for that one lane along that whole
17 distance?

18 A. I believe so, yes.

19 Q. Okay. All right. We
20 know there's a climbing lane. I don't know if
21 it's the reason why we have the distinction
22 between when it changes from southbound to
23 northbound. I'm not sure if that's the reason.
24 Do you have any idea about that?

25 A. No. That's what the test

1 result is saying.

2 Q. It would indicate,
3 though, if it has the same lane number all the way
4 down, that means it's one lane that's being paved?

5 A. Yes.

6 Q. Okay. That's my only
7 question. Thank you very much. You can take that
8 down, Registrar. Thank you. Thank you,
9 Mr. Delos Reyes. We appreciate your time and
10 preparation.

11 Commissioner, we are at just a
12 bit after 12:30. We have conferred with counsel
13 and Ms. McAleer for Dufferin, we alerted them on
14 the weekend that we may be finished with
15 Mr. Delos Reyes before the end of the day and to
16 have Mr. Gamble available for after the afternoon
17 break, which he will be available, but he's on the
18 way into the city, I understand, and so obviously
19 he has to get set up, and so we would ask that we
20 just take an early lunch and then resume at the
21 normal time --

22 JUSTICE WILTON-SIEGEL: 2:15.

23 MR. LEWIS: -- for Mr. Gamble.
24 We can at least get started on him today and get a
25 good ways through his evidence.

1 JUSTICE WILTON-SIEGEL: Okay.

2 Well, then let's stand adjourned until 2:15.

3 --- Luncheon recess taken at 12:33 p.m.

4 --- Upon resuming at 2:15 p.m.

5 MR. LEWIS: Good afternoon,
6 Commissioner and counsel. Our next witness is
7 Mr. Peter Gamble. If the court reporter could
8 affirm him, please.

9 PETER GAMBLE; AFFIRMED

10 EXAMINATION BY MR. LEWIS:

11 Q. Good afternoon,
12 Mr. Gamble. Thank you for coming. I would just
13 like to go through a bit of your background and
14 history at Dufferin. I understand that you're a
15 long-timer with Dufferin and that you worked with
16 or at Dufferin from 1975 until August 2020. Is
17 that right?

18 A. That's correct.

19 Q. Okay. And you retired in
20 2020?

21 A. August of 2020.

22 Q. And I understand that you
23 worked your way up through the company, up and
24 through the company, in a variety of positions
25 from being on the tools, so to speak, hauling

1 asphalt to management positions as the years
2 passed. Is that right?

3 A. That's correct.

4 Q. Could you just give us --
5 it's a long career, I know.

6 A. Yeah, sure I could.

7 Q. Sorry?

8 A. Sorry. Go ahead.

9 Q. I was wondering if you
10 could give us just a brief description of that
11 long career and your trajectory through Dufferin?

12 A. Sure. In 1975, I had a
13 trucking company that worked exclusively for
14 Dufferin and it was mainly hauling asphalt, so I
15 had a real interest in asphalt, especially in the
16 placement of it. And, in 1989, I believe, 1989,
17 1990, I actually sold the business and became a
18 full-time employee of Dufferin, starting as an
19 asphalt foreman. The roles that I hired through
20 my career was starting as an asphalt foreman, went
21 to a general foreman, then went to an asphalt
22 specialty superintendant, and then a manager of
23 plants and equipment, which is the role that I had
24 when this paving occurred on the Red Hill, and the
25 last ten years from 2010 to 2020 as a general

1 manager.

2 Q. All right. And I
3 understand that Dufferin was the paving contractor
4 for the Lincoln Alexander Parkway in 1997. Were
5 you also involved in that project in some
6 capacity?

7 A. I was a specialty
8 superintendant at that time, so I was not in
9 tools, but I was the specialty superintendant.

10 Q. So, you're managing the
11 crews who were placing the asphalt. Is that
12 right?

13 A. That's correct.

14 Q. Okay. There's a bit of
15 an echo. You're speaking clearly, but if I ask
16 you to repeat something, that's probably the
17 reason. I don't know if others are experiencing
18 that, but just hopefully it won't be too --

19 A. My apologies.

20 Q. And I understand it was
21 from February 27, 2007 to March 31, 2010 that you
22 were the manager of plants, equipment and
23 technology. Is that right?

24 A. That's correct.

25 Q. And, as you indicated,

1 that's when the Red Hill paving took place. Can
2 you describe your general duties in that position?

3 A. As the manager of plants
4 and equipment, I was responsible for all the
5 pavement crews, both concrete and asphalt, all the
6 asphalt plants and concrete plants. I was
7 responsible for the quality control of
8 laboratories. I had reporting to me two QC
9 managers, one for asphalt, one for concrete. I
10 believe I had three specialty supers and then
11 there was numerous crews that all fell under the
12 people that reported to me. Sorry, and I also had
13 four equipment shops that had superintendents that
14 reported to me also.

15 Q. The position that you
16 occupied right before you were the manager of
17 plants, equipment and technology, what was that?

18 A. That was the specialty
19 asphalt superintendant.

20 Q. Okay. And what does that
21 position entail?

22 A. That position entailed
23 scheduling and just moving crews to the different
24 projects across the province. That was company
25 wide.

1 Q. For asphalt?

2 A. For asphalt, correct.

3 Q. Okay. And when you were
4 the manager of the plants, equipment and
5 technology, I think you said that the quality
6 control department was under you?

7 A. That's correct. All the
8 labs and we had two managers, one concrete and one
9 asphalt.

10 Q. And the asphalt
11 supervisor, that became Paul Janicas at some
12 point. Is that right?

13 A. That's correct, at the
14 time of this project. We were transitioning from
15 Wade, who moved from asphalt to concrete, and we
16 moved Paul up.

17 Q. Sorry, that was Wade
18 Leary?

19 A. O'Leary, Wade O'Leary.

20 Q. Right. And now, Dave
21 Hainer was a project superintendant during the Red
22 Hill paving, but I understand he didn't report
23 directly to you in any event. Is that right?

24 A. That's correct. He
25 reported to the district manager of the region.

1 Q. That was Jake Sudak [ph]?

2 A. That's correct.

3 Q. All right. And as the
4 project superintendant, what were his
5 responsibilities? The daily operations?

6 A. The daily operations and
7 contractual part of the contract and meeting with
8 the owner.

9 Q. All right. And in your
10 capacity as the manager of plants, equipment and
11 technology during the Red Hill paving, were you
12 also responsible for the selection and purchase of
13 the raw materials used in the paving?

14 A. Yes, I was.

15 Q. Okay. And for asphalt,
16 we can put aside the concrete for a moment, that
17 includes, what, the asphalt cement?

18 A. That's correct.

19 Q. The components of the
20 aggregates used in the mix?

21 A. That's correct.

22 Q. Anything else that's used
23 in the mix?

24 A. Anything that's got to do
25 with asphalt, I would purchase it.

1 Q. Okay. And what else does
2 that include for asphalt that you purchased?

3 A. It's really just the
4 aggregates and asphalt cement and some fuel and
5 some natural gas.

6 Q. Right, in order to run
7 the equipment?

8 A. To heat the asphalt.

9 Q. The actual heating of it,
10 okay. And was that the same prior to you becoming
11 the manager when you were the -- in your
12 immediately prior position, were you also
13 purchasing materials for asphalt?

14 A. I was, yes.

15 Q. Okay. So, at least as
16 far as asphalt goes, it was the same thing?

17 A. It was me.

18 Q. Okay. And you are, of
19 course, familiar with the Ontario Hot Mix
20 Producers Association, otherwise known as OHMPA?

21 A. Yes, I am.

22 Q. And OHMPA had
23 representatives on its board from industry from --
24 representatives of the various asphalt producers.
25 Is that right?

1 A. That's correct.

2 Q. Including Dufferin?

3 A. Including Dufferin.

4 Q. And you were on the board
5 for a period of time as Dufferin's representative.
6 Is that right?

7 A. Yes, I was.

8 Q. And for how long? From
9 when to when approximately?

10 A. I would say for ten
11 years, but definitely during the term that this
12 project had taken place in 2007.

13 Q. Okay. Both before and
14 after this project, you were still on --

15 A. Correct.

16 Q. Okay. And we'll get into
17 some specifics, but generally speaking, can you
18 tell us what your role was during the Red Hill
19 Valley Parkway construction?

20 A. Well, the role of manager
21 of plants and equipment was simply that all the
22 people reported to me were a support mechanism for
23 the field, so whether it be structures or concrete
24 or asphalt or manufacturing plans or testing, they
25 were all in support of the field so that we had

1 three districts at the time, and so this whole
2 department was a support mechanism for people that
3 were doing the work.

4 Q. Okay. And so, your role
5 was what? Managing all those people under you?

6 A. Supporting those projects
7 with the right people to complete the work.

8 Q. All right. And so,
9 typically, were you involved in -- I don't mean
10 hands-on in the tools sort of way, but in a
11 day-to-day role on the project or were those the
12 people that were under you?

13 A. Under me, yeah.

14 Q. Okay, so not in a
15 day-to-day role yourself?

16 A. Not at all.

17 Q. And did you attend any of
18 the site meetings for the --

19 A. Not that I recall, no.

20 Q. And is it fair to say
21 that not exclusively, but for the most part in
22 terms of e-mail traffic on the project, that
23 you're receiving them in a for-your-information
24 copy sort of way as opposed to being directly
25 involved? Is that fair generally speaking?

1 A. Absolutely, that's fair.

2 It's everybody keeping me in the loop.

3 Q. And were you also
4 involved in the grading part of the project, which
5 obviously preceded the paving?

6 A. Not at all.

7 Q. Because you were, at the
8 time, in the asphalt position?

9 A. Correct. That's a
10 contractual part of the job with the district.

11 Q. Right. And how often, if
12 ever, did you attend the Red Hill construction
13 site?

14 A. I'm going to say I was
15 there for the test strip and I'm going to say I
16 probably had -- I know I met with the staff on
17 site for some shoulder -- I'm going to say maybe a
18 half a dozen times max and two or three of those
19 were drive-throughs, not really to meet anybody
20 but I was just driving through because I lived in
21 that area just to take a look at the progress.

22 Q. Right. Okay. So, by
23 that, literally a drive-through, see how things
24 are looking, what's going on without meeting with
25 people. And then one specific memory you have is

1 the test strip, which we'll get to, but that was
2 on July 25, 2007. That's the event you're talking
3 about?

4 A. I was present. Correct.

5 Q. Okay. And aside from
6 just being copied on matters, typically what sort
7 of matters would you get involved in? Would you
8 be brought into issues on the Red Hill?

9 A. Normally the only time I
10 ever got involved was if there were issues and
11 generally it wasn't an e-mail, it would be a phone
12 call. Most e-mails are always FYI. If there was
13 an issue there, then I got a phone call.

14 Q. Okay. And do you recall
15 what sort of things you could get brought into?

16 A. Mainly employees,
17 difficult employees, equipment breaking down,
18 plants breaking down, just those kind of things.

19 Q. Okay. Now, we know that
20 Demix aggregates from the Varennes Quarry in
21 Quebec were used for the SMA and Superpave 12.5
22 FC2 surface courses for the Red Hill, and whose
23 decision was it to use those aggregates?

24 A. That was my decision.

25 Q. Right. In your capacity,

1 as you said, the purchasing capacity of your
2 positions?

3 A. Correct.

4 Q. And do you recall why you
5 made that particular decision?

6 A. Actually, there was a few
7 reasons, actually. Number one, the contract
8 allowed for it, number one. Number two, we were a
9 vertically integrated company, so any chance that
10 we got a chance to use our own material, we would.
11 Number three, we knew we had a very good product
12 in Quebec, highly regarded by the MTQ and it was
13 available. And number three, it made economic
14 sense to go that route, so that's why we proposed
15 to do that.

16 Q. Okay. Or that river, I
17 guess. Is the idea that you would bring it down,
18 ultimately, the Saint Lawrence River through Lake
19 Ontario to the site? Is that right?

20 A. Well, any premag [ph] had
21 to come by boat. Every premag, whether it be
22 Lafarge or OTR, everything comes in by boat, so we
23 probably had our own material.

24 Q. And so, you mentioned a
25 number of things. The first one was that it was

1 not a requirement of the contract. If I
2 understand your shorthand, and correct me if I'm
3 wrong, you mean that it wasn't, unlike the MTO,
4 wasn't a requirement that it be an aggregate,
5 specific aggregate, listed on the designated
6 source materials list. Is that correct?

7 A. That's correct. The
8 project didn't restrict us to the DSM.

9 Q. Right. And was that a
10 usual or unusual thing on a municipal project,
11 that there not be a restriction on the type of
12 aggregate that was used?

13 A. This was a unique job
14 where it was perpetual pavement and we had never
15 done SMA for the region before or any municipality
16 for that matter, so this was the first time we ran
17 into it. Like I said, it wasn't restricted to the
18 DSM, so that's why we went the route we went.

19 Q. Okay. And so, a few
20 things there. The MTO uses or requires DSM-listed
21 aggregates, in summary, for, you know, high volume
22 surface courses, where surface courses can be used
23 on high-volume roads. Right? It's not just SMA?
24 It's not just SMA that they require that for?

25 A. But it's the same stone.

1 Q. Right. I understand.
2 Right. It's not just SMA. It's anything that's
3 required that it be on the DSM for.

4 So, the second thing is you
5 said that the first use of SMA. Did you mean
6 first use for Dufferin placing SMA at all or did
7 you mean something different there?

8 A. First time that we ever
9 did a municipal job with SMA.

10 Q. Okay. Had you at that
11 point done a non-municipal job with SMA?

12 A. I believe we had done one
13 prior to this once.

14 Q. Okay. For the MTO?

15 A. For the MTO.

16 Q. Do you recall where that
17 was?

18 A. I believe it was QEW. It
19 was right on the QEW.

20 Q. Okay. So, then putting
21 aside SMA for a moment, was this an unusual thing
22 for a municipal project or was it usual, that
23 specific aggregates not be specified?

24 A. Municipal always used
25 103, SP103, so this was not unusual, no.

1 Q. Sorry --

2 A. This is -- SP, the SP103.

3 Q. 103 or 1003?

4 A. 1003, sorry, yeah.

5 Q. Okay.

6 A. Yeah, but that was
7 standard of practice for municipalities. All
8 municipalities use that standard or that spec, so
9 this was not out of the norm for them to do this.

10 Q. Okay. And had you in
11 your own experience or Dufferin more generally
12 used Demix aggregates for a project in Ontario at
13 that time?

14 A. Not in Ontario, not at
15 that time.

16 Q. Okay, so this was the
17 first time in Ontario, but it had been used in
18 Quebec, as you, I think, already described?

19 A. Yes.

20 Q. And do you recall when
21 the decision was made to use the Demix aggregates
22 for the Red Hill project? We know that it was in
23 late March and we'll get to that, but it was
24 actually proposed to or presented to Golder and
25 the contract administrator and the City, but do

1 you recall when the decision was made?

2 A. We talked about it over
3 the winter and what we had to do was we had to
4 figure out the logistics on it to see if it was
5 even a possibility. We knew they had availability
6 in Montreal as far as providing the stone, but we
7 had to bring it in with boats, so we used our
8 cement division -- we use boats all the time -- to
9 see if they could coordinate some shipping for us
10 and they were able to do that and that's when we
11 decided that we would move forward and do
12 everything to try to get it approved.

13 Q. Okay. And so, by the
14 winter, so it might have been in late 2006 into
15 early 2007 or it could have been in early 2007?

16 A. It would be early 2007.

17 Q. Okay, so January-February
18 time period perhaps or early March, that sort of
19 thing?

20 A. I don't remember. Sorry.

21 Q. All right. And the Demix
22 Varennes Quarry, it's located not too far from
23 Montreal. Is that right?

24 A. That's correct.

25 Q. And it's a type of trap

1 rock, is the kind of aggregate. Is that right?

2 A. That's correct.

3 Q. And if we could go to
4 overview document 3, image 33 and 34. From time
5 to time, just while they're pulling this up, we
6 have the overview document which summarizes
7 documents and so forth which we may go to the
8 actual document underlying it, but that's just
9 what we're calling up here.

10 And this is what I alluded to
11 before. In 66(b) at the bottom of the image 33,
12 Vincent Gangaram, who is the lab supervisor at
13 Dufferin, wrote to Mr. Maranzan, who was the
14 Philips contract administrator rep, about seeking
15 approval, Dufferin seeking approval, to use the
16 Demix Varennes aggregate for the Superpave 12.5
17 FC2 and SMA mixes, so this is the first request to
18 use it, just to place that in time, and that's
19 what I'm referring to. Obviously sometime before
20 that in the winter is when the decision was made
21 to use it. Right?

22 A. Correct.

23 Q. Okay. Now, it's
24 mentioned in this letter specifically that it's
25 not on the MTO's DSM and refers to it being used

1 as a reference aggregate by the Quebec Ministry of
2 Transportation. At that time, were you aware of
3 the MTO, generally speaking anyway, requirements
4 for aggregates being listed on the DSM?

5 A. Yes, I was. I was
6 familiar with the DSM, if that's what you're
7 asking.

8 Q. Well, you were familiar
9 with the DSM, but were you aware, at least
10 generally speaking, of the requirements for being
11 listed on the DSM?

12 A. No, I wasn't. No.

13 Q. Okay. So, you knew that
14 it was about pre-qualifying them to be of a
15 sufficiently high quality for use. That's sort of
16 the general purpose. Right?

17 A. Yeah. I knew what the
18 process was to get on the DSM, if that's what
19 you're asking, but it was very clear that we --
20 well, Varennes was not on.

21 Q. Right. You had to go
22 through a process to get there?

23 A. Right.

24 Q. Were you aware that there
25 was a friction testing requirement that the MTO

1 had put the aggregates through?

2 A. No, I wasn't.

3 Q. Okay. Or about using
4 polished stone value testing, anything like that?

5 A. That came under my lab
6 guys. That's technical and they had the training
7 to deal with that. That was beyond me to --

8 Q. You knew there was a
9 requirement and you knew that the Demix Varennes
10 weren't on it, but you didn't know what
11 the specifics were to get on it?

12 A. That's correct. That's
13 correct.

14 Q. And if we could go to
15 image 39 and paragraph 74 at the top there, on
16 April 23, 2007 -- I'm just going to blow that up a
17 bit -- Paul Janicas, who you talked about who
18 moved into the quality control supervisor role,
19 had e-mailed Dr. Ludomir Uzarowski at Golder with
20 test results for the Demix aggregates done by
21 Trow. And, again, I'm just sort of placing this
22 in time. You're not copied on this, but you'll
23 see at the bottom there in the e-mail from
24 Mr. Janicas it says:

25 "Dufferin also requests

1 that the fine aggregate
2 used in both the SMA and
3 12.5 FC2 be different
4 from the coarse
5 aggregates."

6 And then, if you just hold
7 that, at that time there was a request that the
8 fines and the coarse be from different sources, is
9 the first thing.

10 And then if we could go to
11 paragraph 77, if we could bring up image 40 as
12 well, paragraph 77 is an April 30, 2007 e-mail
13 from Mr. Janicas to Dr. Uzarowski. And it doesn't
14 say it there, but you were copied on this one and
15 it's about Dufferin's plan for physical testing of
16 the Demix aggregates. It sets out a number of
17 items there.

18 And then on page 40 on the
19 right-hand image, in that last bullet with the 1,
20 2, 3, 4 listed below it, he's again requesting
21 that, for SMA and 12.5 FC2, that the coarse and
22 the fines come from different sources, so the
23 coarse and secondary coming from Demix and the
24 fines and screenings coming from the Aecon Marmora
25 Quarry. Do you see that?

1 A. Yeah, I see that.

2 Q. Okay. And then just to
3 finish it off and I'll ask you a couple questions
4 about it, at page 40 there on the bottom,
5 number 78, Mr. Janicas says, it's on May 2:

6 "Dufferin would like to
7 retract our request to
8 blend premium sources for
9 the SMA and the 12.5 FC2
10 and that they'll be both
11 from the same source,
12 from Demix Varennes."

13 And do you recall why it
14 started off at both Demix and then not and then
15 back to Demix? Do you have any recollection about
16 this issue and what was driving it?

17 A. I didn't even know that
18 this happened until I read all these documents
19 that were sent to me. I was not aware this was
20 happening. The intention was that you wanted to
21 represent Varennes.

22 Q. Okay. So, you were
23 copied on the second one, as I indicated?

24 A. Yeah.

25 Q. But you're saying at the

1 time you didn't have any appreciation really of
2 what was being asked. Is that your point?

3 A. Yeah. Prior to this, I
4 probably scanned over it, but I just assumed that
5 my guys were taking care of it.

6 Q. Okay. So, number 1, this
7 wasn't something that you directed. Is that
8 right?

9 A. That's absolutely
10 correct.

11 Q. But you were in charge of
12 the purchasing, as you described, so is that not
13 something that you would have had to have been
14 involved in in order to --

15 A. Eventually if that usage
16 needed to be done, then yes, then I would have had
17 to go and purchase those materials. The only
18 assumption I can make is that when Trow was doing
19 the mix designs, that they wanted to use another
20 material, or the logistics, the fine portion of
21 these mix designs was very, very small and maybe
22 it was a logistics issue of trying to get it in by
23 boat with such a small quantity. Maybe that
24 wasn't possible. Again, you have to ask Paul and
25 the fellow who did the mix design why they wanted

1 to switch. I can't speak to it.

2 Q. Okay. You just don't
3 have any recollection at this time. Right?

4 A. Well --

5 Q. And actually you say that
6 you just weren't involved in that to your
7 recollection?

8 A. Yeah. I would never get
9 deep into the mix design itself. This would be
10 getting deep into the mix design where they
11 thought that they needed raw materials and then it
12 looks like they retracted, so maybe they figured
13 out the logistics of getting the material in. I'm
14 not sure.

15 Q. All right. And it was
16 Trow that was doing the mix designs. Right?

17 A. That's correct.

18 Q. Which you're, of course,
19 as I understand it, it was done after the
20 selection and purchasing decisions are made that
21 the actual mix designs are done. Is that right?

22 A. That's correct.

23 Q. Okay. And I take it from
24 what you said that you weren't involved in the mix
25 designs at all, other than hiring Trow to do it?

1 A. That's correct.

2 Q. Okay. And then if we
3 could go to image 48, paragraph 97, this is just
4 to place the timing. On June 22, 2007,
5 Mr. Janicas e-mailed Dr. Uzarowski at Golder the
6 SMA mix design for the main line surface course.
7 And many people are copied on that, but you're not
8 copied on this particular one. So, it's the
9 timing just that I'm interested in.

10 We know that the SMA paving
11 did start on August 1, so this is 40 days before,
12 almost six weeks, not quite. Is that within the
13 normal time range before paving commences to
14 submit a mix design to the QA consultant and the
15 client? Is that within the normal range?

16 A. At that time of year,
17 yes. As it gets later in the year and you're
18 busier, it's usually less than that. It's usually
19 a month.

20 Q. Okay.

21 A. So, we were trying to be
22 proactive and try and get all our ducks in order
23 here to submit it.

24 Q. Okay. And is it unusual
25 or is it normal course to have some back and forth

1 with the quality assurance consultant about mix
2 designs and compliance with mix designs?

3 A. It depends. Some of them
4 are straightforward and some -- this is a
5 complicated mix, so it's not surprising that it
6 would go back and forth.

7 Q. Okay. So, not unusual in
8 that context --

9 A. No.

10 Q. -- of it being a complex
11 mix design? Okay.

12 A. At the end of the day, it
13 needs to be approved, so if the owner wants
14 something different or something adjusted that's
15 outside the spec, then we would comply.

16 Q. Okay.

17 A. But again, it would be
18 done through the third party that was designing
19 the mix design.

20 Q. If you have to go alter
21 the mix design?

22 A. Correct.

23 Q. Right. I mean, because
24 in that respect, there wasn't anything back and
25 forth with Trow. It was between Dufferin and

1 Golder, the City and the contract administrator at
2 that point, and we'll see a bit of that in a
3 moment.

4 If we go to -- well, we have
5 image 49 up. Actually, 49 and 50, please. And
6 this is just a reference in a site meeting, which
7 I appreciate you did not go to. You weren't at
8 this one. But there's a reference at the top of
9 page 50 there under Material Testing, the second
10 paragraph, that Golder indicated that vibratory
11 roller currently being used by Dufferin is likely
12 too heavy for SP19 and SMA pavement layers. So,
13 this is on July 10. This is before the test strip
14 and it's obviously before the placement of SMA.
15 And so, the past tense description is about the
16 lower lifts that are being referred to.

17 And can you comment on the
18 issue of damage to aggregates resulting from the
19 roller being too heavy and vibration. Is that an
20 issue that you're familiar with?

21 A. If you vibrate too much
22 the SMA mix, it will fracture the stone
23 absolutely. Compaction is achieved mainly by
24 hitting it hot. And when I was there for the test
25 strip, we started out static and I believe the

1 test strip did not -- we did not get the
2 compaction that was required. So, again, but I
3 wasn't there every day, so I'm not sure if they
4 went to vibratory or not, but, you know, we had a
5 process control person on the nuke who would work
6 with Golder to achieve what we needed to achieve,
7 and that was the adjustment after the test strip.

8 Q. Right. So, there's a
9 number of things there and we'll get to the actual
10 paving in a second. I'll actually ask a couple
11 things.

12 Is it standard procedure for
13 Dufferin to use, you know in the normal course, to
14 use vibration with its rolling?

15 A. Always.

16 Q. Always?

17 A. Not with SMA, but on any
18 other mix, standard to use vibration.

19 Q. Okay. And with SMA
20 you're saying it's not the standard practice?

21 A. Again, we had only done
22 it once before, so we were cognizant of the fact
23 that we were over compacting. Again, SMA, without
24 getting -- I'll keep it real layman terms here.
25 It's roughly 85 percent stone where the other

1 mixes are 50/50 for the round numbers. So,
2 85 percent stone, if you over compact, you will
3 crush the aggregates.

4 Q. Right. And if I
5 understood you correctly, on the test strip on the
6 25th, I think what you said was that you, you
7 meaning Dufferin, started off using the
8 vibratory -- sorry, not using the vibration on the
9 rollers, but then there was difficulties with the
10 compaction and so then vibration was used. Is
11 that what you said?

12 A. I only know that after
13 the fact, though. At that time that we made this
14 test strip, we had some nuclear density machines
15 out there, but at that time we actually laid the
16 test strip, we weren't aware of the compaction
17 results at that time.

18 Q. Okay.

19 A. I know we started out
20 static. I'm not sure if we actually switched to
21 vibratory on that test strip.

22 Q. Okay. So, you didn't
23 have the test results available while it was going
24 on on the test strip, but I take it you think that
25 that may have been the case? We have heard some

1 evidence from Andro Delos Reyes and Dr. Uzarowski
2 that vibration was used on the test strip, but are
3 you saying -- is it fair to say that you think it
4 may have been, but you're not positive?

5 A. I don't know. I have no
6 idea. I know we started out static. That's all I
7 am saying.

8 Q. Started out static, okay.

9 A. Yeah.

10 Q. On the test strip, okay.
11 We'll come to the test strip in a minute. I know
12 you were there. And then I'm going to take you to
13 a couple of e-mails, the first of which you
14 weren't copied on, the second of which you were,
15 but I want to place it. And this is on the 23rd
16 of July, so now we're a couple of days before the
17 test strip placement and this is at image 52. I
18 think it should be 52 and 53. Pull them up,
19 please. And the first one is in paragraph 105(a)
20 on image 52 there where Mr. Hainer, Dave Hainer,
21 e-mailed Philips and Mr. Oddi regarding concerns
22 expressed about Demix aggregates in the SMA and
23 FC2 surface courses and also about the upcoming
24 test strip. And if you could just have a look at
25 that, tell me when you're done reading it.

1 A. Okay.

2 Q. And I'll go to that
3 document in a minute, but while we're still here,
4 in paragraph (c) on the next page there there's
5 another e-mail that day from Mr. Janicas to
6 Philips and Mr. Oddi about prior use of Demix
7 aggregates by the Quebec Ministry of
8 Transportation and this is one that you are copied
9 on and he's giving past examples, which I take it
10 is the sort of thing that you were talking about
11 previously, that Dufferin had done work using
12 Demix in Quebec. Do you recall receiving this
13 e-mail or being involved?

14 A. No, I don't.

15 Q. Okay. And in this, he
16 refers to the information, in addition to the
17 information submitted this morning, which appears
18 to be the stuff that we were looking at in the
19 prior e-mail.

20 And, if we could go to the
21 actual first e-mail, which is Dufferin DUF1965.1,
22 I guess. And so, you'll see at the top this is
23 Mr. Hainer sending it to Philips, CC Mr. Oddi and
24 then also James Wharrie and Rick Triemstra at
25 Dufferin. That's the e-mail we referred to

1 before. And then at the bottom, it's Paul Janicas
2 and that e-mail is to Mr. Hainer, copied to you,
3 then that gets forwarded on by Mr. Hainer to
4 Philips and Mr. Oddi.

5 And in the e-mail at the
6 bottom, which is on the 20th of July, so a few
7 days before, I think it's a Friday and then Monday
8 is the 23rd, he writes:

9 "Dave, attached is the
10 package discussing the
11 Demix aggregates issue.
12 Please review it."

13 And it appears we've already
14 seen this and, Commissioner, you'll be familiar.
15 This is the Dufferin and the City have been unable
16 to locate the attachments, but you'll see there's
17 four PDF attachments located there and there's
18 images of one, which is a skid resistance report,
19 the second says mix design examples, the third is
20 Red Hill Valley aggregate physicals comments,
21 Trow, 20th July 2007, and then the last one is a
22 Dufferin cover letter about Demix aggregates of
23 July 20.

24 Did you recall at all what any
25 of these attachments were, other than what their

1 titles indicate that you can see?

2 A. I don't know. Not at
3 all.

4 Q. Okay.

5 A. Without seeing them.

6 Q. Pardon me?

7 A. I said without seeing
8 them, I'm sorry, I can't. I don't know.

9 Q. Okay. And in the e-mail
10 at the top from Mr. Hainer, he mentions that the
11 correspondence which is attached below is
12 regarding the concerns of the aggregate which are
13 to be used in the FC2 and SMA surface course
14 mixes. And then he trusts that, in the second
15 paragraph:

16 "Trust the documents
17 below will satisfy the
18 concerns verbally
19 identified."

20 And the last paragraph, he
21 says:

22 "Should there still be
23 concerns, please call me
24 at your earliest
25 convenience."

1 Do you have any recollection
2 as to what the concerns were that are mentioned in
3 Mr. Hainer's e-mail?

4 A. No. Again, I wasn't
5 copied on any kind of concerns, but I would think,
6 again I'm speculating, that these PDFs, they are
7 rebuttals, requests for some information.

8 Q. Right. So, you assume if
9 this information is being provided, it must be
10 answering a request of some sort?

11 A. That's correct.

12 Q. But you're not aware of
13 what that was?

14 A. No. Sorry.

15 Q. And it does seem to me
16 from the way that you have described your job, if
17 concerns are being expressed about materials which
18 you were responsible for the selection and
19 purchase of, that that would be the kind of thing
20 that you would be involved in. Is that a fair
21 assessment?

22 A. Yes, yes. But again, it
23 would not have been through e-mail. They would
24 have called me up and said this is what's
25 happening, this is the concerns and then what are

1 we going to do about it? At this point here, it
2 looks like they're just looking for some history
3 from Quebec. I don't know what's in those PDFs.
4 It looks like it's physical testing which the
5 owner needs to approve for the stone and then some
6 history on it.

7 Q. Right. And what one of
8 them is, and we don't have the attachment, but the
9 title there for the image in the attachment is
10 "Skid Resistance Report." Do you recall any
11 concern being expressed about the skid resistance
12 of the Demix aggregates?

13 A. Not at all, no.

14 Q. Can you say one way or
15 the other or is it just that you can't recall?

16 A. I don't recall ever being
17 questioned about anything about friction or skid
18 resistance on the Varennes material.

19 Q. Okay. And following that
20 up, are you saying it did not happen or that at
21 this time you can't recall any questions being
22 raised, because those can be two different things:
23 I don't remember or no, it didn't happen?

24 A. I just don't recall. I
25 do not recall ever being asked anything about

1 friction qualities of that stone.

2 Q. Thank you. And we've
3 heard that this e-mail did not go to Golder, which
4 was of course the City's quality assurance
5 consultant. It did not go to Dr. Uzarowski which,
6 generally speaking, that was the normal flow of
7 information with respect to the aggregates and mix
8 design approvals and these sorts of things.

9 Do you have any knowledge of
10 why this e-mail and the subsequent e-mail the same
11 day were not sent to Golder?

12 A. No, sorry, I don't. You
13 would have to ask the sender.

14 Q. That's what, sorry?

15 A. You would have to ask the
16 sender. I have no idea why it didn't follow the
17 process.

18 Q. Okay. Is it not
19 something you had any discussion about?

20 A. Not at all. This is
21 day-to-day activities. That's what this is. I
22 would not be part of that.

23 Q. Well, I appreciate that
24 as a general proposition, but you are, as I say,
25 copied into Mr. Janicas' first e-mail with the

1 materials, so you are being -- you're copied on
2 it, you're being involved and you're copied on a
3 number of things and you're copied on the next one
4 and it involves questions apparently specifically
5 about the materials that you purchase. So, again,
6 it does seem a little less than the usual
7 day-to-day of who is laying what asphalt in what
8 quantities on the project. Would you agree with
9 that?

10 A. I believe that this is an
11 FYI, just like most of the other e-mails. This is
12 keeping me in the loop of what's going on back and
13 forth before this mix actually gets approved.

14 Q. And at this point, on
15 July 23, we're a couple of days before the test
16 strip and ultimately nine days before Dufferin
17 actually starts placing the SMA. And if at this
18 point the aggregates that form part of the mix
19 design for the SMA are, for some reason, found to
20 be unsuitable or rejected, what sort of a delay
21 would you be looking at for commencing the paving?
22 Do you have any sense of that?

23 A. My sense would be, at
24 minimum, one month.

25 Q. Of one month?

1 A. One month as a minimum.

2 Q. Okay. And why is that?

3 I'm not asking you for a day-to-day, but just

4 overall, what's your sense of why --

5 A. You would follow the
6 process again of purchasing, so you need to go
7 find suitable aggregates, you would have to
8 purchase them, make sure they're available, make
9 sure you get the logistics figured out, and then
10 you would have to do the mix design. A new mix
11 design is a minimum of two to three weeks, so
12 that's why I'm saying 30 days.

13 Q. Okay. And then I guess
14 as well, and maybe it's included in that, whatever
15 the testing is done, the quality control and
16 quality assurance testing is being done, has to be
17 completed as well before the placement can
18 actually occur. Is that right?

19 A. That correlation is
20 everything, you're correct. But 30 days is a
21 pretty good number, I would say, unless the
22 material is not available --

23 Q. Right. Assuming you can
24 get it from somewhere else?

25 A. Exactly.

1 Q. Okay. So, we've talked a
2 couple of times about the test strip on the 25th
3 and that you were present, and that's the one time
4 that does stick in your mind about being
5 specifically onsite for the Red Hill project. And
6 why in particular were you there for the test
7 strip?

8 A. I wanted to see how the
9 material was going down, the actual placement of
10 it.

11 Q. And why was that?

12 A. Well, I wanted to check
13 to make sure that we did not have segregation of
14 the mix. Sometimes you have to adjust pavers and
15 our shuttle buggies to make sure that you have no
16 segregation and I wanted to visually inspect the
17 mix.

18 Q. Could you explain what
19 you mean by segregation in that context?

20 A. Well, an example would be
21 the SMA. Too much touching of the rake would
22 cause segregation, so we wanted to make sure when
23 we did the asphalt on joints, that there was no
24 manual touching, that kind of thing, so we did not
25 have any kind of segregation. And then we were

1 looking at the rolling of roller patterns, what's
2 the process control behind it. It was a short
3 piece on a ramp, I remember, but visually it
4 looked very, very good, to my recollection.

5 Q. Sorry, there's just that
6 bit of an echo. So, on the segregation point, and
7 I apologize, I didn't quite catch it clearly what
8 you meant. You referred to segregation and then
9 you referred to the joints, so I didn't quite get
10 that.

11 A. If you touched SMA with a
12 rake, you handled it with a rake, you can
13 segregate it, so I wanted to make sure the
14 placement crews were placing it properly. That's
15 why I was there. And then I wanted to see
16 visually after it was rolled what the product
17 looked like.

18 Q. Okay. As you said, that
19 visually it seemed to be fine and that the process
20 itself went fine?

21 A. It looked very, very
22 good.

23 Q. Okay. And then to just
24 make sure we're talking about the same thing, you
25 were paying attention to the rollers and as a

1 result you're aware that it was not -- you were
2 not using the vibratory function. You were in
3 static mode, as you referred to it, at the start.
4 You don't recall whether it went to vibration
5 mode, but you were definitely in static mode at
6 the beginning. Is that right?

7 A. That's correct.

8 Q. When you were in that
9 position and, I guess, in your prior position when
10 you were in charge of asphalt only, did you
11 typically attend for test strips for the surface
12 course or was this unusual?

13 A. Except for airports, test
14 strips are not done very frequently and this is
15 the only one I can remember going except for at
16 the Toronto airport, so this is not typical of,
17 you know, me showing up for a test strip.

18 Q. Okay. Because test
19 strips themselves, in your experience, aren't that
20 common. Is that right?

21 A. That's correct.

22 Q. Okay. If we could go to
23 OD3, pages 54 and 55, images 54 and 55. So,
24 there's two events I want to bring your attention
25 to and then ask questions. The first is in

1 paragraph 109 there's a meeting. The last
2 sentence below at the bottom of the paragraph
3 before this is the excerpt from the notes:

4 "There was a meeting
5 onsite between Dufferin
6 and City of Hamilton."

7 It references representatives
8 with Golder to inspect the test strip. And
9 Dr. Uzarowski's notes indicate a number of people
10 that were there, but not you, and so just to
11 confirm, am I correct you were not at that
12 meeting?

13 A. I was not there.

14 Q. Okay. And at that
15 meeting, Dr. Uzarowski advised that the test strip
16 had failed, that it was rejectable and he gives
17 the reasons. Do you recall specifically with
18 respect to that meeting whether you were advised
19 of what the Dufferin folks were told? I guess it
20 was James Wharrie, is who he indicates was there,
21 but do you recall being advised at that time?

22 A. No. No, I don't.

23 Q. And then on July 31, if
24 we go to the next page, Dr. Uzarowski e-mails
25 Mr. Oddi from the City, Philips, Mr. Janicas and

1 Mr. Hainer. The overview document doesn't mention
2 Mr. Hainer, but he was also copied on that
3 document. And you can read that e-mail and just
4 let me know when you're done. He's advising that
5 the test strip failed and indicates that -- I'll
6 wait until you read it. Let me know when you're
7 done.

8 A. Are you talking about
9 111?

10 Q. Yes. Maybe he can expand
11 that for you to take it easy on your eyes. Is
12 that better?

13 A. Perfect.

14 Q. Thank you, Registrar.

15 A. Okay.

16 Q. All right. And he
17 indicates the shortcomings in Golder's view of the
18 test strip and the results and states at the
19 bottom:

20 "We understand that
21 Dufferin Construction
22 intends to place the SMA
23 mix on the main line
24 tomorrow. Dufferin
25 Construction should be

1 A. Sometimes, sometimes not.
2 But they do not need my approval to move forward
3 if they wanted to take that risk. District
4 manager would make that decision.

5 Q. Okay. And in this case,
6 the district manager is Jake Sudak?

7 A. That's correct.

8 Q. And in consultation with
9 Mr. Hainer?

10 A. That's correct.

11 Q. Okay. And so, did you
12 have anything, any involvement, in the decision to
13 proceed?

14 A. No, not at all. Our
15 focus was on adjusting, you know, a test strip. A
16 test strip is simply a test strip and needed to
17 make some adjustments to make sure that when we
18 did start, whenever we started, that we had
19 satisfied these concerns.

20 Q. Now, I think you
21 indicated that it was uncommon, except I think on
22 airports, for test strips to be done, in your
23 experience in any event. What typically do you do
24 if a test strip fails in your experience, or is
25 that not something you would run into?

1 A. Again, we have done very
2 little of them. Like I said, test strips are
3 never perfect. You know, it's up to the owner
4 whether they want them in or out. I can't speak
5 to the fact that we've ever taken one out if we
6 did do one. Test strips, mind you, are much
7 different than doing trial batches. Trial
8 batches, we do all the time, but this is an actual
9 test strip, so very few. We've done very, very
10 few.

11 Q. Explain maybe what you
12 mean by trial batches in this context?

13 A. So, trial batches is
14 where we actually make a sample at the plant for
15 testing before you actually do -- before you
16 actually lay the asphalt, so --

17 Q. And those would -- sorry,
18 go ahead.

19 A. Sorry. They're used to,
20 number one, formulate the two labs together to try
21 to find a happy medium and then, you know, you're
22 making a trial batch with a 400-tonne-an-hour
23 plant, trial batches is very small compared to the
24 amount of asphalt that you would have to make to
25 actually do it, so a 400 tonne plant, we would

1 have to run 30, 40 tonne just to get a
2 representative sample to actually test. So, trial
3 batches are very common but test strips are not.

4 Q. Right. And there were
5 trial batches done in this instance, in this
6 project, as well of course?

7 A. I believe so. We
8 would -- even if it wasn't a requirement, Dufferin
9 does trial batches to see where the settings need
10 to be.

11 Q. And given that this was,
12 you indicated, Dufferin's second SMA project and
13 there was a requirement of a test strip, you know,
14 if you were told about it failing, it does seem to
15 me that, you know, it might be something that you
16 want to make sure you get right or just before you
17 start the main line paving. Am I wrong?

18 A. Again -- yeah. Again,
19 you know what? It depends on what's off. Test
20 strips are all about adjusting to get it right.
21 You know, I don't know exactly how far this was
22 off. It tells me that -- the fact that it was not
23 removed tells me it just needed a tweak to put it
24 into compliance. So, again, you would have to ask
25 or look at the results of it for that stretch of

1 the ramp, but the fact that it's stated tells me
2 it was out of compliance but it wasn't real bad or
3 it would have been removed. Again, it's all
4 about -- that's what you do with all test strips
5 so you can make those adjustments on everything.

6 Q. And this was on a ramp,
7 which is not, of course, the main line where SMA
8 was going to be laid over, placed overall, it was
9 on a ramp where the Superpave product was
10 otherwise going to be placed. Is that right?

11 A. That's correct.

12 Q. Okay. Now, I'm going to
13 tell you -- actually, this might be a good -- it's
14 3:15, so this is our typical afternoon break, and
15 so I think this would be a good time,
16 Commissioner, to break.

17 JUSTICE WILTON-SIEGEL: Fine.
18 Should we take ten minutes?

19 MR. LEWIS: I think --

20 JUSTICE WILTON-SIEGEL:
21 15 minutes?

22 MR. LEWIS: I think 15. I
23 would like to have a brief chat again with counsel
24 about their thoughts on --

25 JUSTICE WILTON-SIEGEL: Okay.

1 That's fine. We'll be back at 3:30.

2 --- Recess taken at 3:16 p.m.

3 --- Upon resuming at 3:31 p.m.

4 MR. LEWIS: Good afternoon,
5 Commissioner. May I proceed?

6 JUSTICE WILTON-SIEGEL: Please
7 do.

8 MR. LEWIS: Thank you.

9 BY MR. LEWIS:

10 Q. Mr. Gamble, just coming
11 back to one thing from before the break, you said
12 that you thought that there was one prior SMA
13 placement that Dufferin had done before the Red
14 Hill and I think you said that it was on the QEW
15 somewhere. Is that right?

16 A. I think it was QEW and
17 Trafalgar.

18 Q. And Trafalgar, okay.
19 We'll look into that. We certainly know there
20 were a number of placements that -- first of all,
21 this is an MTO project, of course, because it's
22 the QEW. Right?

23 A. That's correct.

24 Q. Okay. And QEW and
25 Trafalgar road in Oakville. Is that right?

1 A. Correct.

2 Q. And there were a number
3 of MTO SMA projects, so I just wanted to nail that
4 down as to the one that you were talking about
5 that may be in overview document 4. We'll look
6 into that. Thank you.

7 Are you quite sure it preceded
8 the Red Hill?

9 A. Am I positive? No. I
10 believe the timing, it's 2007, I believe, so...

11 Q. All right. Because we
12 know that Dufferin was the subcontractor for the
13 QEW interchange with the Red Hill Valley Parkway
14 and that SMA was -- and that was after and that
15 was intended to use --

16 A. That was after.

17 Q. Okay. Exactly. Okay.
18 We'll look into that. Thank you very much.

19 Now, there's a few things that
20 I anticipate Marco Oddi from the City may testify
21 about and I'm going to ask you -- I'm going to
22 tell you what I anticipate he may testify to on
23 three things and then I'm going to ask you about
24 those things. I'll mention all three at once and
25 then I'll ask you individually.

1 So, I anticipate he may
2 testify to the following things, and the first is
3 that Dufferin and specifically you were very
4 excited about starting the SMA paving and were
5 quite confident in getting it right. And the
6 second thing is that Dufferin wanted to win Paver
7 of the Year, some sort of award in that respect.
8 And the third is that he recalls in a conversation
9 with you're around July 31, 2007 or perhaps in the
10 week following that he said words to you to the
11 effect of, and referring to the SMA placement,
12 that if a doesn't meet spec, you're going to have
13 to mill and replace it.

14 And so, if we could start with
15 the first thing, were you and Dufferin excited
16 about starting the SMA paving and confident that
17 you would get it right?

18 A. Absolutely. I told all
19 my people we could go out there and give the owner
20 exactly what he required.

21 Q. Okay. And did you tell
22 Mr. Oddi that Dufferin wanted to win Paver of the
23 Year?

24 A. Yeah. You know what? I
25 remember having a conversation with him, but it

1 wasn't for this project. This project would not
2 have qualified for that. That's an MTO award, so
3 I think that was a generic conversation we were
4 having about because at that time it was every
5 contractor's goal to win that award, but it wasn't
6 for this project because this project wouldn't
7 have qualified for it.

8 Q. Because it was an MTO --

9 A. So, he might have --
10 yeah, it's an MTO award.

11 Q. Okay. And then the last
12 point, that around or about July 31 or perhaps in
13 the week following, him saying words to the effect
14 of: If it doesn't meet spec, you're going to have
15 to mill and replace it. Do you recall him saying
16 that to you?

17 A. I don't recall him saying
18 that, but that's the world that we live in. If
19 you don't give the owner the requirement, then
20 that's what it results in. So, I don't remember
21 the conversation, but would I have said it?
22 Probably.

23 Q. It wouldn't surprise you
24 if he said it?

25 A. Pardon me?

1 Q. It wouldn't surprise you
2 if he said that to you?

3 A. Well, no. He's doing his
4 job. You know what? He meets the client what
5 he's asked for, and so that wasn't unreasonable
6 for him to say that to me.

7 Q. Okay. And early on when
8 we were talking about your work history and so
9 forth and we briefly mentioned the Ontario Hot Mix
10 Producers Association and your being on the OHMPA
11 board for around ten years, which spanned the time
12 of this project and, you know, we're aware and
13 we'll hear from some MTO people about this that
14 there were OHMPA members or representatives of
15 some OHMPA members who were on an MTO industry
16 joint SMA task group that was convened in 2006 to
17 deal with concerns that had arisen regarding early
18 low age friction in SMA pavements.

19 And at the time of the Red
20 Hill project and the SMA paving commencing, were
21 you aware of there being an issue about early age
22 SMA low friction?

23 A. Not at all. I was not
24 aware there was even a task force.

25 Q. Okay. At that time, you

1 weren't aware there was a task force either?

2 A. (Non-verbal response).

3 Q. And do you recall when
4 you learned of the issue and/or the task force's
5 existence?

6 A. I don't remember the task
7 force, but like I said, through the industry I had
8 heard about the pause on the OTR product and
9 that's when -- obviously I asked why and it was
10 about friction concerns, so that was the first I
11 heard about any kind of friction issues in SMA.

12 Q. Okay. And so, OTR,
13 that's the company and quarry Ontario Trap Rock?

14 A. That's correct.

15 Q. And you heard about a
16 restriction on Ontario Trap Rock, but specifically
17 the pause on SMA and we know that the pause was
18 instituted in November 2007. Does that accord
19 generally with when you would have heard about it?

20 A. You know what? We had
21 done the -- so we finished, what, August? What
22 was the completion of Red Hill? August 16, I
23 believe.

24 Q. The paving was done on
25 the 13th of August and it --

1 A. The surface?

2 Q. Pardon me?

3 A. The surface was completed
4 on the 13th?

5 Q. The main line was. There
6 was further paving that had to be done and that's
7 when the main line was completed, in August, and
8 then it opened it November, so --

9 A. So, we were completed the
10 surface for sure when I found out and I believe it
11 was all because we were asked to price the Aecon
12 job at the bottom of the hill and because Varennes
13 wasn't on the DSM, I had to find something else to
14 use, and so when I called, that's when I found
15 out, through the salesman at OTR.

16 Q. Okay. Again, to unpack
17 that a little bit, at the bottom of the hill, do
18 you mean at the interchange?

19 A. The interchange between
20 Highway 20 there.

21 Q. Sorry, the interchange?

22 A. Between Highway 20, to
23 the bottom of the Red Hill up north.

24 Q. Sorry, and Highway 20?

25 A. The project went to

1 Highway 20 for the Red Hill going east to Highway
2 20. It was on the QEW, the paving.

3 Q. Right, on the QEW, yes,
4 that particular project where Dufferin was the
5 subcontractor to Aecon. Is that right?

6 A. That's correct.

7 Q. Okay. And I think we
8 have some documents that are at a later date than
9 this, so thank you very much.

10 Sorry, just give me one
11 moment. So, the QEW, there is a project for the
12 MTO between the Third Line to Trafalgar, which is,
13 if we could go, Registrar, to OD4, images 90 and
14 91. So, at the bottom of the page 90 in
15 paragraph 214, you'll see that it refers to
16 Dufferin requesting the MTO's permission to use
17 aggregate from Hutcheson sand and gravel in SMA on
18 the QEW from Third Line to Trafalgar. And I would
19 just bring you to that because you mentioned your
20 recollection about a prior project being at
21 Trafalgar Road and the QEW.

22 Is this what you're referring
23 to or do you still --

24 A. That's the project I told
25 you, but obviously I've got the wrong project.

1 Q. Okay. So, you still
2 think -- that's fine. So, that's the project you
3 were thinking of?

4 A. That's the project, but
5 obviously I've got the wrong project in mind.

6 Q. Okay. Do you think that
7 there was another SMA project that preceded the
8 Red Hill?

9 A. Yes, I do. Yes, I do.
10 There's one project, I believe.

11 Q. Okay. If we're unable to
12 get to the bottom of it today, we'll follow up on
13 that with Dufferin's counsel.

14 Okay. You can go back to OD3,
15 Registrar, image 57. While he's -- we've got it.
16 Good. We know that it started, the SMA paving, on
17 August 1, 2007 and Golder conducted compaction
18 testing on August 1st and 3rd. I think you
19 indicated earlier that Dufferin's normal practice,
20 except on SMA, is it to use the vibration setting
21 on its rollers, but am I correct you weren't
22 onsite on the 1st or the 3rd? You weren't
23 supervising the paving in any respect. Is that
24 right?

25 A. That's correct.

1 Q. And from the review of
2 documents, and I don't know that it will be
3 necessary to take you to them, but it certainly
4 shows that from the compaction test reports on
5 August 1 that vibration, the vibration setting,
6 was used for a portion of the SMA paving. Do you
7 have any knowledge of that occurring?

8 A. No, I don't. All I know
9 is that at that time our people were working with
10 Golder to establish rolling patterns to make sure
11 that we hit the spec. If that entailed using
12 vibration, then that's what they would have done.

13 Q. Okay. But you don't have
14 any personal knowledge of whether they used it or
15 not and, if they did, to what extent. Is that
16 right?

17 A. That's correct.

18 Q. Now, if I could take you
19 to -- actually I will ask one question. Would it
20 make sense to you, though, that if vibration was
21 used, that that would directionally, taking into
22 account the concerns you raised about potentially
23 cracking aggregates, that better compaction
24 results can be obtained by using the vibration
25 mode?

1 A. Again, as long as it was
2 hit hot, as long as they hit the mat at the
3 temperature that it needed to be. Once it gets
4 too cold, regardless of what you do, vibratory or
5 not, you wouldn't get the compactions.

6 Q. And that's the issue with
7 SMA, that it really needs to be rolled when it's
8 hot, so you need the rollers to be close to the
9 pavers. Is that right?

10 A. That's correct. And I
11 believe after we did the test strip, we added more
12 rollers so they were really tight to the paver,
13 but I'm not sure if they did vibratory or not.
14 That, I wouldn't know.

15 Q. Okay. If we could go to
16 page 58 of OD3. And in paragraph 120, if you
17 could expand that, please, Registrar, so Mr. Oddi,
18 on August 9 of 2007, e-mailed Dave Hainer, you and
19 James Wharrie, all of Dufferin, and the e-mail is
20 quoted there:

21 "This correspondence
22 confirms that the
23 Varenes mix aggregates
24 have been approved for
25 use in the SMA and

1 Superpave 12.5 FC2
2 surface course asphalt
3 mixes on the Red Hill
4 Valley Parkway main line
5 paving project. The
6 trial batches for both
7 mix designs met the
8 specified requirements.
9 If you have any
10 questions, please call
11 me."

12 You did receive a copy of this
13 e-mail. Do you recall receiving it?

14 A. Not specifically, until I
15 read all the documents and I see that I forward it
16 on.

17 Q. Right.

18 A. I just assumed this was
19 an FYI again.

20 Q. Right. You sent it on
21 to, if you could pull that down, it's actually not
22 in there. We would have to go to the document
23 itself. I think you forwarded it to --

24 A. Vincent Gangaram.

25 Q. Yes, it's to

1 Mr. Gangaram, who is the lab person. Right?

2 A. Yeah. I forwarded it to
3 him for his records.

4 Q. Right. And so, was it
5 typical for Mr. Oddi to communicate with you
6 directly?

7 A. Not at all. Not typical
8 at all.

9 Q. And who was he typically
10 communicating with?

11 A. At the job site with
12 Mr. Hainer.

13 Q. Okay. And would it be
14 fair to say that typically these communications,
15 communications about mix design and aggregates and
16 approval or issues arising, that those typically,
17 from the City side, came from Golder,
18 Dr. Uzarowski?

19 A. Or Philips, one or the
20 other. Again, I wasn't part of the process, so
21 I'm not sure what the trail was.

22 Q. Okay. And do you have
23 any recollection of the circumstances surrounding
24 this e-mail?

25 A. Again, I just assumed it

1 was an FYI, that this was the official approval.

2 Q. Did you request that this
3 e-mail be sent?

4 A. No.

5 Q. Do you recall any
6 discussion on the Dufferin side of things about
7 requesting such an e-mail?

8 A. No.

9 Q. Is there any light that
10 you can shed on why this e-mail was sent by
11 Mr. Oddi at this time rather than by
12 Dr. Uzarowski?

13 A. No. I'm sorry. You
14 would have to ask Marco. I just don't know.

15 Q. Okay. And would it be
16 fair to say to that it's unusual for such a
17 communication, whoever it's coming from, to be
18 coming eight days after the paving commences?

19 A. Again, you know what? I
20 wasn't part of the job site, but it sounds like a
21 lot of verbal approvals were done at these site
22 meetings that I've read, so this could just be
23 catching up on the paperwork. Again, you would
24 have to ask the author here, but there's a lot of
25 things done at site meetings verbally to get the

1 job to stay on schedule so, but again, you would
2 have to ask the author.

3 Q. Okay. OD3, image 60,
4 please. These are the site meeting minutes for
5 the site meeting on August 21, following the
6 completion of the SMA paving. You weren't in
7 attendance, but there is an entry referring to
8 Golder providing written confirmation indicating
9 the SMA mix design is satisfactory. You don't
10 need to expand it, but it's the fifth bullet
11 there.

12 Do you have any knowledge of
13 when that was provided or who provided it?

14 A. No, not at all. Because,
15 again, these approvals go directly to the job site
16 and then to my people in the QA/C lab.

17 Q. Right. And that is the
18 typical thing but it's not what happened on
19 August 9. That's the distinction. Right?

20 A. Correct.

21 Q. Okay. Now, I would like
22 to move on to the topic of the MTO friction
23 testing and then the application that was then
24 submitted by Dufferin and Demix for DSM approval,
25 is the next topic I want to talk about.

1 So, if we could go to OD4 now,
2 Registrar, image 55. Just to place it in time for
3 your benefit, the actual testing, skid testing, by
4 the MTO took place on the Red Hill on October 16,
5 2007 and then there were arrangements being made,
6 of course, in the lead-up to that testing taking
7 place. And in paragraph 166, there you'll see in
8 early October, October 4, there's some e-mails
9 about making arrangements to conduct the testing
10 on October 9 but then it doesn't end up happening
11 until the 16th.

12 And if you could go then to
13 paragraph 127, the next page, next image. That's
14 good. You can keep them both up. And then
15 Mr. Delos Reyes at Golder forwards the October 4
16 e-mail from Mr. Marciello at the MTO to Philips
17 and to Dufferin at James Wharrie's e-mail address
18 stating:

19 "Gentlemen, for your
20 information and
21 permission."

22 And if we could go to an
23 actual document, Dufferin DUF2709.1, and you'll
24 see at the bottom it's Mr. Delos Reyes' e-mail on
25 October 4 where he writes to James Wharrie, the

1 e-mail I just read to you before:

2 "Gentlemen, for your
3 information and
4 permission."

5 He sends it to Mr. Wharrie and
6 to Dr. Uzarowski and Mr. Delos Reyes and Mr. Oddi.
7 And then Mr. Wharrie at the top there on the same
8 day forwards that to Mr. Hainer, to you and I
9 guess that's Brian Dodds at Dufferin. Is that
10 right?

11 A. Brandon.

12 Q. Brandon, thank you. I
13 see the "Br" there. He indicates:

14 "FYI, please find
15 attached from Andro
16 regarding skid resistance
17 testing to take place at
18 10:00 a.m. Tuesday
19 October 9, 2007."

20 Okay. If we could pull that
21 down and then go to OD4, image 59, and
22 paragraph 136, so maybe 59 and 60 so the entire
23 paragraph is up. Thank you. So, in
24 paragraph 136, you're not copied on this but this
25 is Mr. Delos Reyes to Mr. Marciello at the MTO on

1 October 17, the day after the testing is
2 conducted, and he states:

3 "Just a reminder, please
4 e-mail test result as
5 discussed. Dufferin and
6 Philips Engineering are
7 highly interested."

8 So, with all of that just to
9 set the stage for you, you received that earlier
10 e-mail that Mr. Wharrie forwarded to you on
11 October 4 about the testing that was going to take
12 place. Do you recall if you were highly
13 interested in the testing?

14 A. That was the first time
15 that I realized that the testing was actually
16 going to happen, because again, the contract
17 itself, that was not a criteria for acceptance, so
18 that was the first time that I knew there was
19 actual testing being done. And then through all
20 my readings, the job site showed an interest in
21 the results. I did not. I was focused on
22 fulfilling the contract, the specifications in the
23 contract.

24 Q. Okay. Do you know who
25 expressed that interest to Mr. Delos Reyes? Do

1 you have any knowledge of that?

2 A. Well, it's coming from
3 the job site, so it's Mr. Wharrie worked for
4 Mr. Hainer, so it's coming directly from the job
5 site.

6 Q. Okay. Someone at the job
7 site?

8 A. Someone at the job site.

9 Q. Okay. Do you know why
10 they would have been interested in it?

11 A. No.

12 Q. Because, as you said, it
13 wasn't a contractual requirement, so what do they
14 care?

15 A. I'm not sure.

16 Q. And if we could mark
17 Dufferin 2709.01 as the next exhibit, please,
18 Commissioner. I believe that's Exhibit 32.

19 EXHIBIT NO. 32: E-mail
20 from James Wharrie to
21 David Hainer dated
22 October 4, 2007, Skid
23 Resistance Testing - Red
24 Hill Valley, DUF2709.01.

25 BY MR. LEWIS:

1 Q. I will say, is friction
2 testing something that you had any, other than
3 knowing that perhaps friction testing existed or
4 skid testing existed, is that something that you
5 had any knowledge of or understood how it worked
6 and what it did, anything like that?

7 A. Anything technical like
8 that, I left for the people that worked for me. I
9 didn't have the training or the education to even
10 understand it. I hired experts to take care of
11 that for me.

12 Q. So, that's the
13 explanation. I take that as a no and that's the
14 reason why no. Is that right?

15 A. That's correct. That's
16 correct.

17 Q. Okay. So, I appreciate
18 you weren't interested in the friction during the
19 paving because it wasn't a contractual
20 requirement. What about regarding the submission
21 to the MTO for inclusion of Demix aggregates on
22 the DSM? Is that something that crossed
23 Dufferin's radar screen at the time that the
24 application was being made?

25 A. Yeah, I believe what had

1 happened there, and again that was probably at my
2 direction, is after we completed the Red Hill,
3 we're very proud of the Red Hill, and then the
4 product that we had placed, we believed to be a
5 very, very good material, and so we made the
6 application to or I gave Paul the direction to try
7 to get it on the DSM list, but you had to satisfy
8 a bunch of conditions with the Ministry and there
9 were some visits and things, but I believe I
10 directed to get the ball rolling to get on the
11 DSM.

12 Q. And Paul, that's Paul
13 Janicas that you're talking about?

14 A. Yes. Sorry.

15 Q. That's okay. That's why
16 I'm here.

17 If we could go to OD4, image
18 57, just back a little bit. So, paragraph 131, a
19 day prior to the actual skid testing being done by
20 the MTO on October 15, Mr. Janicas sends this
21 letter to Jim Theodore, who is the contract
22 administrator at Morrison Hershfield on a MTO
23 contract, contract 2007-2031. Under the reference
24 line, "Trial Section - SP12.5 FC2 using aggregates
25 from the Varennes Quarry - Demix." And attached

1 So, was this a Dufferin paving
2 contract with the MTO?

3 A. I believe it was, yes.

4 Q. Okay. And so, as I
5 understand it, and you tell me if I'm wrong, it's
6 seeking for Dufferin to place a trial section, a
7 trial strip, using Demix aggregates in that mix on
8 the contract which another mix is being used,
9 using an already-approved DSM aggregate. Is that
10 right?

11 A. Yes.

12 Q. And as you indicated, you
13 think this would have been submitted at your
14 direction by Mr. Janicas?

15 A. This would have all been
16 a part of the process of trying to get the Demix
17 material on the DSM. That's what's required to
18 get on the DSM, is a trial strip.

19 Q. Right. And the trial
20 strip being used, that's what you're asking for,
21 and then next to it a continuous section of road
22 which can also be using an already-approved
23 aggregate. Is that right?

24 A. Yeah. You know, I could
25 speculate. You would have to ask Paul his

1 intentions here, but I would speculate that at the
2 time we did not know if the Ministry would allow
3 the Red Hill to be the actual trial strip, so we
4 wanted to get the product on an actual MTO job. I
5 believe that's what the intention would have been,
6 but again, that's me speculating.

7 Q. Okay. So, to back it up,
8 would it be fair to say that likely you said to
9 Mr. Janicas let's make an application, you know,
10 to get this on the DSM, you figure out how to do
11 it?

12 A. It's a matter of just
13 following the process that the Ministry requires
14 to get on the DSM list, which required a test
15 strip.

16 Q. Right. But I think you
17 had said before, that's right, that you weren't
18 familiar with the ins and outs of what was
19 required. You just knew you had to be on the DSM
20 if you wanted to do an MTO project, so that's why
21 I'm asking what level of detail you got into with
22 respect to the application?

23 A. Satisfy the Ministry to
24 get on the DSM list. That's --

25 Q. All right. And do you

1 know when you made the decision to apply? When
2 did that start to be on your radar screen about
3 applying to the Ministry for DSM status for the
4 Demix aggregates?

5 A. We talked about it before
6 the completion of the Red Hill, but after we
7 completed the SMA and saw how satisfied we were
8 with the placement of it, that's when we made the
9 decision to actually move forward.

10 Q. Okay. So, how far back
11 would you have been talking about it? Would this
12 have been a topic of discussion at the time or
13 before the time that you made the decision to use
14 the Demix aggregates on the Red Hill Valley
15 Parkway?

16 A. No, because at the time
17 we didn't know how it was going to react, so we
18 wanted to use it and see how friendly it was as
19 far as placement goes before we decide to do it
20 and we were very happy with the -- sorry.

21 Q. No, I understand that
22 about the decision to actually submit the
23 application. What I'm wondering is when it first
24 came to your mind and was discussed about even
25 contemplating doing that, even contemplating the

1 application. I appreciate what you said about you
2 weren't going to do something until you saw how it
3 was placed and that it went well. I get that.
4 But I'm wondering going back how far back that
5 this was in contemplation to even consider making
6 an application.

7 A. It was always in my mind
8 to do it. There's a very short supply of premium
9 aggregates in Ontario. Us getting that mix or,
10 sorry, that aggregate on the DSM is good for the
11 government, for the owner, for the MTO and for the
12 industry to have another source to be able to use,
13 so. But again, no decision was made to move
14 forward until we saw the end result on Red Hill.

15 Q. Okay. So, am I correct,
16 then, that prior to making the decision to use the
17 Demix aggregates in the SMA and SP12.5 FC2 mixes,
18 that it was in your contemplation that there may
19 be an application to the DSM, assuming that the
20 Red Hill project went well?

21 A. Yeah. Not initially
22 because we didn't even know if it was going to be
23 approved by the City, but once it was approved,
24 then we talked about it.

25 Q. Okay. So, I'll keep

1 backing up. So, once you knew that it was
2 approved, then it was moving forward and closer to
3 the decision to actually make application. Are
4 you saying that --

5 A. Correct.

6 Q. Because you also said
7 that, I think, and I don't want to mischaracterize
8 your words, I thought you said it was always in
9 your mind, so I'm wondering how far back that
10 goes. I appreciate that your certainty as to
11 whether an application was going to be made would
12 have been increased over time. I'm wondering if
13 at least it was in your contemplation that there
14 would in the future, assuming the Red Hill,
15 assuming it was approved, assuming that it went
16 well, that an application could be made and if
17 that was in your contemplation prior to deciding
18 to ask the City if you could use the Demix
19 aggregates on the --

20 A. Not prior. Not prior.

21 Q. Okay. Sometime after?
22 At some point after that?

23 A. Correct.

24 Q. And we've seen with the
25 letter early on in our discussion today was the

1 letter from Mr. Gangaram to Philips was on the
2 27th of March of 2007, so not prior to that date
3 or was it prior to that date?

4 A. So, the 27th, we made the
5 application to the City. Correct?

6 Q. Yes.

7 A. Yes.

8 Q. 27th of March.

9 A. 27th of March. So, it
10 would be after that date.

11 Q. Okay. And then at some
12 point along the way -- and if you can't pinpoint
13 it any further than you have, then that's fine --
14 before the SMA paving actually took place, you
15 were more solidified, assuming that the paving
16 went well, that the DSM application would be made.
17 Is that correct?

18 A. That's fair, yes.

19 Q. And can you place it any
20 better along the time between March 27 and
21 August 1?

22 A. I would be guessing.
23 Sorry. I would be guessing.

24 Q. That's fair. Thank you.

25 And I want to then come back to Mr. Oddi's

1 August 9, 2007 e-mail, which, as you indicated,
2 was at least atypical in terms of the lines of
3 communication on this project, and this is the
4 e-mail where he sets out the approval of the Demix
5 aggregates. And so, I just want to ask you is it
6 possible that Mr. Oddi was sending that at
7 Dufferin's request so that there was a record of
8 approval for potential submission to the MTO for
9 the DSM application?

10 A. No, not at all. No, not
11 at all.

12 Q. Okay. How can you be so
13 sure about it that? It's after the paving
14 commenced.

15 A. Again, I wasn't at the
16 site meetings, but I'm assuming a verbal was given
17 to start and this was catching up with the
18 paperwork to make sure that all approvals are done
19 in writing.

20 Q. Okay. But you're quite
21 certain it wasn't for the purpose that I just
22 suggested?

23 A. No, not at all. Not at
24 all.

25 Q. Okay. Thank you. The

1 last thing I want to ask you about is if we go to
2 OD3, image 70, and in paragraph 147(a) there's a
3 reference to a paper that was presented at the
4 2008 annual conference of the Transportation
5 Association of Canada. And in paragraph (a),
6 there's one that's called "Innovative,
7 Comprehensive Design and Construction of Perpetual
8 Pavement on the Red Hill Valley Parkway in
9 Hamilton," and authors are listed as
10 Dr. Uzarowski, Gary Moore of the City of Hamilton
11 and you.

12 Did you have any role in
13 writing the paper or in providing any inputs or
14 edits?

15 A. Nothing at all. Nothing
16 at all.

17 Q. Okay. Did Dr. Uzarowski
18 ask you, though, if you would agree to be listed
19 as an author?

20 A. He phoned me asking for
21 permission to put my name on the paper.

22 Q. Okay. And you gave him
23 that --

24 A. I gave him permission,
25 yes.

1 Q. Okay. And do you recall
2 if you read the paper before it was completed?

3 A. I still haven't read the
4 paper.

5 Q. Okay. And do you recall
6 if it was sent to you? Dr. Uzarowski testified
7 that he believed it was and we do have an e-mail
8 where he instructs his assistant to send it to
9 you. I appreciate that you never read it. Do you
10 recall if you received a copy?

11 A. I don't. I don't. I
12 can't say for sure, but if I did receive it, it
13 was not read.

14 Q. Okay. All right. I
15 don't have any further questions, Commissioner.
16 Thank you, Mr. Gamble. The participants' counsel
17 will, I believe, have some questions for you.

18 Commissioner, I can advise
19 that -- and maybe if we just take five minutes for
20 counsel to confer about the time, I do expect that
21 if we sit a little bit past 4:30, I expect we will
22 be able to finish with Mr. Gamble and get him on
23 his way rather than calling him back tomorrow, so
24 maybe if we could just have five minutes to
25 discuss with --

1 JUSTICE WILTON-SIEGEL: That's
2 fine. Mr. Gamble, I'm assuming that that's your
3 preference, to --

4 THE WITNESS: Yes.

5 JUSTICE WILTON-SIEGEL: -- sit
6 a little bit later today and finish up today?

7 THE WITNESS: Indeed.

8 JUSTICE WILTON-SIEGEL: That's
9 fine. Then let's take five minutes and counsel
10 can discuss the timing in counsel's breakout room.

11 --- Recess taken at 4:12 p.m.

12 --- Upon resuming at 4:17 p.m.

13 MR. LEWIS: We are back,
14 Commissioner. I can advise that there aren't very
15 many questions and I think likely we'll be done
16 around and about 4:30 in any event. And counsel
17 for the MTO has advised that they don't have any
18 questions. Mr. Chen for the City will go first.
19 He has a few questions. Then Ms. Roberts for
20 Golder. And, unless there's something that needs
21 to be addressed, Ms. Laurion has indicated she's
22 unlikely to have any questions, but she does
23 reserve the right if something else arises.

24 JUSTICE WILTON-SIEGEL: Okay.

25 EXAMINATION BY MR. CHEN:

1 Q. Good afternoon,
2 Mr. Commissioner. Good afternoon, Mr. Gamble. My
3 name is Jonathan Chen and I'm one of the lawyers
4 for the City of Hamilton. I just have a small
5 number of questions for you.

6 So, I want to go back to the
7 decision to use the Demix aggregates for the SMA
8 surface layer and I believe you testified that one
9 of your responsibilities was to decide which
10 aggregate to use for the SMA surface layer. Is
11 that correct?

12 A. That's correct.

13 Q. And we know the decision
14 was to use the Demix aggregates for the SMA layer.
15 Correct?

16 A. That's correct.

17 Q. And one reason for
18 choosing the Demix aggregates is that this was not
19 an MTO contract, so there was no requirement to
20 use a DSM-listed aggregate. Is that fair?

21 A. That's fair.

22 Q. So, an aggregate not on
23 the DSM was permitted for this project, provided
24 that it met certain specifications?

25 A. Correct.

1 Q. And given that there was
2 no requirement to use a DSM-listed aggregate, I
3 take it Dufferin never proposed to the City to use
4 a DSM-listed aggregate?

5 A. That's correct.

6 Q. And, again, I get that
7 there was no requirement under the contract, but
8 fair to say that Dufferin could have proposed
9 using a DSM-listed aggregate if Dufferin wanted
10 to?

11 A. If we wanted to, we could
12 have.

13 Q. And just back to the
14 Demix aggregates, I take it we can agree that just
15 because an aggregate is not on the DSM list, it
16 doesn't mean the aggregate is low quality?

17 A. That's correct.

18 Q. The aggregate just hasn't
19 been pre-qualified for use by the MTO, as I think
20 you discussed with Mr. Lewis. Correct?

21 A. That's true, yes.

22 Q. And fair to say that you
23 believe the Demix aggregates to be a premium
24 aggregate?

25 A. Yeah, as deemed by Quebec

1 and as deemed by the professionals that were doing
2 our mix design.

3 Q. Perfect. Those are my
4 questions, Mr. Commissioner. Thank you,
5 Mr. Gamble.

6 MR. LEWIS: So, I believe
7 Ms. Roberts is next.

8 EXAMINATION BY MS. JENNIFER ROBERTS:

9 Q. Hello, Commissioner,
10 Mr. Gamble. Mr. Gamble, I'm counsel for Golder
11 and I have a very short series of questions just
12 on process.

13 Registrar, if I can take us
14 back, please, to overview document 3, image 47,
15 paragraph 97. There we go. Okay. I just want to
16 take you back, Mr. Gamble, to the submission of
17 the mix design, and that's set out in
18 paragraph 97. June 22, this is Mr. Janicas, he
19 submits the mix design.

20 And I would like to go
21 actually to the mix design, and that, I believe,
22 is Golder 1631. There we go. Okay. Can we
23 please turn up image 3. First of all, I take it
24 that this is the mix design that was prepared for
25 Dufferin by its consultant, Trow?

1 A. Looks like it, yes.

2 Q. Okay. And just for
3 clarity of understanding, this is Trow's mix
4 design and I'm not going to go through the whole
5 package because that would -- I don't think it
6 warrants that detail, but am I understanding this
7 correctly that this is, sort of, the overview of
8 what's in the mix that you're going to actually
9 produce?

10 A. Yes. Those are the
11 proportions of each individual constituent in the
12 mix.

13 Q. You're anticipating my
14 question. So, maybe if you can take us briefly
15 through that, because I think you gave evidence
16 about proportionality earlier this afternoon.

17 A. Can you blow it up? I
18 can't see anything now.

19 Q. Thank you. There you go.

20 A. Okay. So, that first box
21 is the key ingredients, so you've got 12.5 coarse
22 aggregate, 72 percent of the mixes is coarse
23 aggregates. Screenings, there's 15 percent
24 screenings. Then you have a filler of 6.58 and
25 then you have AC content, which is 6 percent.

1 That constitutes your mix proportions.

2 Q. Okay. And the PG 70-28,
3 that's the kind of asphalt cement that's been
4 specified. Right?

5 A. That's correct.

6 Q. Okay. And we looked at
7 various points today at different issues and one
8 of the specifications required is the air void of
9 4 percent. Do you see that there?

10 A. Yes.

11 Q. Okay. And this, then, as
12 I understand it, becomes the template against
13 which all of the aggregate that's produced by
14 Dufferin gets measured?

15 A. That's correct, in the
16 mix. Correct.

17 Q. Okay. And so, just as we
18 go forward in the chronology, as Dufferin's plants
19 are producing asphalt for the Red Hill, I
20 understand that two samples are taken at supply:
21 One that Dufferin tests pursuant to its QC. Is
22 that correct?

23 A. I'm not sure the process
24 they use on this. That's a day-to-day thing --

25 Q. Okay.

1 A. Sorry, I can't answer
2 that.

3 Q. Okay. But am I correct
4 in understanding that all of the QC/QA review is
5 done in comparison with this mix that's prepared
6 by Trow?

7 A. Yes, yes. I think you
8 were asking are the samples taken side by side so
9 that you have a good correlation. If that was
10 your question, that's true.

11 Q. Yes.

12 A. But the frequency and
13 everything, I couldn't tell you about that.

14 Q. Right. Sorry, I didn't
15 mean to get into frequency. The point is that
16 they're duplicate samples that are taken. One of
17 those --

18 A. Yes. Yes.

19 Q. Okay. Commissioner, this
20 morning you were asking about the process and I'm
21 hoping this would be responsive to that series of
22 questions.

23 JUSTICE WILTON-SIEGEL: Yes.

24 So, one sample, I take it, goes to Trow and one
25 sample goes to Golder. Is that right?

1 THE WITNESS: To Trow? I
2 believe on this project we were doing the testing
3 ourselves. Trow only did the mix design, I
4 believe.

5 JUSTICE WILTON-SIEGEL: I see.
6 Okay.

7 BY MS. JENNIFER ROBERTS:

8 Q. I can go to an example of
9 that, actually. Why don't we do that. Let's just
10 pull up Dufferin 2419. Is this an example of a
11 hot mix asphalt test report done by Dufferin?

12 A. Yes. So, if that's from
13 this project, that's us doing the testing and we
14 compared that to Golder's sample.

15 Q. Commissioner, we can go
16 through this, but I think for my purposes I was
17 trying to illustrate the process of the review.

18 JUSTICE WILTON-SIEGEL: That's
19 fine. Thank you.

20 BY MS. JENNIFER ROBERTS:

21 Q. Thank you. Those are my
22 questions. Thank you very much for your patience,
23 Mr. Gamble.

24 MR. LEWIS: Ms. Laurion, do
25 you have any questions?

1 MS. LAURION: No questions.

2 Thank you, Mr. Lewis.

3 MR. LEWIS: Thank you.

4 Commissioner, there is one thing that I neglected
5 to ask right at the end and I do, under our rules,
6 have the ability to ask follow-on questions, but
7 it's just one very, very short point.

8 FURTHER EXAMINATION BY MR. LEWIS:

9 Q. Mr. Gamble, just with
10 respect to the actual skid testing results from
11 the MTO, did you ever receive a copy of the
12 results?

13 A. Never.

14 Q. Do you know if anyone
15 else at Dufferin received the skid testing results
16 by the MTO?

17 A. I don't know for a fact
18 that they did, but I know that they were eager to
19 see them, so you would have to ask them.

20 Q. Okay, but you're not
21 aware of whether they did or not?

22 A. They didn't share them
23 with me if they did.

24 Q. Okay. That's it. Thank
25 you.

1 JUSTICE WILTON-SIEGEL: Okay.

2 So, I take it, Mr. Lewis, that ends the session
3 for today?

4 MR. LEWIS: Yes, it does.

5 JUSTICE WILTON-SIEGEL: And
6 Mr. Gamble was scheduled for tomorrow, but we've
7 now finished with Mr. Gamble today, which means
8 that, if I understand correctly, Mr. Oddi is not
9 available until Thursday. Is that correct?

10 MR. LEWIS: Wednesday.

11 JUSTICE WILTON-SIEGEL:
12 Wednesday.

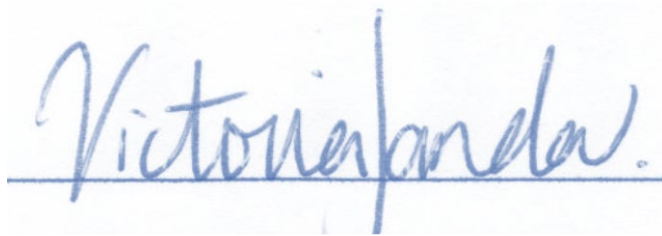
13 MR. LEWIS: He was originally
14 scheduled for Wednesday, but we've been advised
15 that he's not able to make himself available
16 tomorrow.

17 JUSTICE WILTON-SIEGEL: Right.
18 And neither Mr. Janicas, who is scheduled for
19 Thursday, nor Mr. Murray, who is scheduled for
20 Friday, is available to slot in tomorrow?

21 MR. LEWIS: That is correct.
22 Mr. Janicas just had the one day really available
23 and Mr. Murray is not in town.

24 JUSTICE WILTON-SIEGEL: So,
25 two things: In the short-term, that means that we

I HEREBY CERTIFY THAT I have, to the best of my skill and ability, accurately recorded by shorthand, and transcribed therefrom, the foregoing proceeding using real-time computer-aided transcription.

A handwritten signature in blue ink that reads "Victoria Janda." The signature is written in a cursive style and is positioned above a horizontal blue line.

Victoria Janda, CSR