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PEBBLE PROJECT  
SCOPING MEETING  
IGIUGIG, ALASKA  
Taken April 18, 2018  
Commencing at 3:30 p.m.  
Volume I - Pages 1 - 62, inclusive

Taken at  
Igiugig School  
Igiugig, Alaska

Reported by:  
Mary A. Vavrik, RMR



1 P-R-O-C-E-E-D-I-N-G-S

2 MR. SHANE MCCOY: Good afternoon,  
3 everybody. First of all, I'd like to thank you on behalf  
4 of the United States Army for welcoming us into your  
5 community, allowing us to have this scoping meeting this  
6 afternoon. I'd like to thank you for taking time out of  
7 your busy schedules this time of year, especially, to  
8 participate to help inform our process.

9 My name is Shane McCoy. I'm the project lead for the  
10 application review from the Pebble Limited Partnership.  
11 And I would like to let you guys know a little bit how  
12 this is going to go on today. So I'm going to show a  
13 brief video that was prepared by the Pebble Limited  
14 Partnership for the Corps of Engineers. It's an animation  
15 of the application as received to date.

16 And then I would like to also make sure everyone is  
17 fully aware that the Corps of Engineers and the regulatory  
18 program is neither a proponent nor an opponent. So we  
19 don't have an affiliation with Pebble other than the fact  
20 that we are required to review their permit application  
21 for the discharge of dredge and fill materials and  
22 activities that may affect navigable waters. So our  
23 jurisdiction is Section 404 of the Clean Water Act, which  
24 most of you are familiar with, which is a review of the  
25 proposed discharge of dredge and fill materials into

1 wetlands or other waters of the U.S. and activities that  
2 may affect navigable waters, tidal waters or other  
3 navigable waters.

4 So I guess I was informed by our court reporter to  
5 please speak slowly and clearly and allow her to see your  
6 lips so she can accurately capture what you are saying.

7 Today we are asking you to help inform our scope of  
8 analysis. Your input will be used to inform a range of  
9 alternatives, the resources and issues to be analyzed,  
10 methods of analysis, and potential mitigative measures  
11 throughout the evaluation of the permit application.

12 Please understand also that all comments will be made  
13 public, including the information specific to the person  
14 providing those comments. They will be made available on  
15 our project website, [pebbleprojecteis.com](http://pebbleprojecteis.com).

16 And so why are we here today? As I have traveled  
17 around, I understand we have provided -- lots of folks  
18 here have provided testimony throughout the run up until  
19 an application was received by the Corps of Engineers.  
20 When we receive an application, we are required to review  
21 that application.

22 All federal actions require a National Environmental  
23 Policy Act review. It's an analysis to determine the  
24 benefits, the effects, mitigation, alternatives,  
25 et cetera, of a proposed action. It was determined that

1 an Environmental Impact Statement level of analysis would  
2 be required for this project.

3 The first portion of an EIS NEPA process is called  
4 scoping. It's a public process, a public input portion of  
5 the process which will allow the public to help inform us,  
6 again, of the scope of analysis for issues to be evaluated  
7 during the process.

8 In addition to the United States Corps of Engineers,  
9 there are two other federal agencies that must make a  
10 decision regarding the application from the Pebble Limited  
11 Partnership, one of which is the United States Coast  
12 Guard. They must review a permit application for a bridge  
13 over the Newhalen River. And the other is the Department  
14 of Interior's Bureau of Safety and Environmental  
15 Enforcement, which will review a right-of-way application  
16 for the natural gas pipeline proposed for the Outer  
17 Continental Shelf. All three agencies must use the NEPA  
18 analysis to inform their decisions.

19 Understand that the NEPA process does not result in a  
20 decision, but rather is used informatively later. That is  
21 called the record of decision and, again, that will come  
22 after the EIS has been finalized.

23 The next public comment period will be the draft EIS  
24 stage. That is when we will have hearings and allow  
25 opportunity for the public again to comment on our

1 analysis.

2 Please understand also that the framework of our  
3 document must have a nexus to the proposed impacts under  
4 the jurisdiction of the three federal agencies.

5 You can provide input into what we should analyze in  
6 several ways. Today you may provide comment directly to  
7 the court reporter in front of the people gathered here  
8 today. You may provide written comment to anybody with a  
9 name tag on or drop it off at the sign-in table. You may  
10 enter it directly into one of the computers in the back.  
11 That will go directly onto the project website, again,  
12 pebbleprojecteis.com. Or at your own convenience, you may  
13 enter a comment onto our project website from your own  
14 computer or other abilities.

15 Understand also that the scoping period has been  
16 extended to June 29th. So an additional 60 days to the  
17 original 30 has been added. I would also request that if  
18 you have a written prepared statement that you will read  
19 today, if you can leave it with the court reporter, it  
20 will help us accurately capture what your comment is. And  
21 also please be very respectful of others. There are many  
22 people here that want to comment. There are many people  
23 here that want to hear comments.

24 So to that end, we will show the presentation, again  
25 presented -- created by the Pebble Limited Partnership for

1 the Corps of Engineers. Thank you.

2 (A video was shown.)

3 MR. SHANE MCCOY: With that, I'd like to  
4 invite Christina Salmon up, please. And again, if you can  
5 stand a little bit back so that our court reporter can see  
6 your lips.

7 MS. CHRISTINA SALMON: I'm sorry. I have  
8 a lot. I have several of the high school students'  
9 written comments.

10 Hello. My name's Teya Olsen, and I'm a student at  
11 Igiugig High School. Before I start, I just want to put  
12 out there that I do not support Pebble Mine in any way,  
13 shape or form.

14 If you weren't aware of this, Bristol Bay is the  
15 largest sockeye salmon run in the world. By mining in our  
16 region, it would be generating toxic waste which would  
17 pollute our land, animals and fish. I understand that  
18 Pebble could open up a lot of jobs and opportunities for  
19 our community, but is it worth destroying our environment?  
20 Is it worth endangering our salmon? Is it worth losing  
21 our cultural heritage?

22 My name is Simeon Zackar. The proposed mine will  
23 have a great effect on my cultural ways of putting up fish  
24 and going hunting. Financially, it would bring money when  
25 all you need is a full belly of fish. Spiritually, my

1 heart is with the fish. Who wants a big hole in their  
2 land and for what money? Look at how many people still  
3 live off of fish.

4 My name is Kira. My opinion on Pebble is not very  
5 good. I'm not for it because I think it's bad for the  
6 environment and ecosystem. It will ruin the salmon runs  
7 and potentially the lives of many. These rural villages  
8 depend on salmon for their subsistence lifestyles. Salmon  
9 provide us pay, a food source, and a widely spread  
10 tradition. Our whole lives are formed around salmon. I  
11 think if Pebble was put into action, then we would  
12 collapse in wealth, health and value. I don't agree with  
13 Pebble at all. I don't want to ruin it for us. I think  
14 we should keep this area of Alaska as clean and safe as  
15 possible, and I believe we can do that without Pebble  
16 being in the way.

17 My name is Aiden Wassillie and I go to school in  
18 Igiugig and live on the biggest lake in Alaska and on the  
19 biggest salmon run river, the Kvichak. And what worries  
20 me is that we might lose our salmon, moose and caribou.  
21 And if you guys do get the permit, our rivers will be  
22 dirty with dirt and poisons.

23 My name is Kiara Nelson. I'm a student from Igiugig  
24 school. Sure, Pebble gives people jobs and provides an  
25 immense profit to people to support it, but what about



1 what Pebble takes away if it goes through? Fish runs,  
2 streams and our environment. Pebble deceives us, saying  
3 that their mine will only be minor and won't affect the  
4 land, that everything will be completely safe. It's like  
5 the snake. Oh, man. It prevaricates Eve to eat the  
6 forbidden fruit, just like how Pebble is telling us that  
7 there is no harm in this mine. If this goes through, it  
8 will make a very deep impact on one of the last wild  
9 salmon fisheries in the world, the preserved subsistence  
10 fishing tradition will die, and our lake that is home to  
11 thousands will turn toxic from the toxic runoff coming  
12 from the mine.

13 I am Kaylee Hill, a student at Igiugig High School,  
14 and these are my opinions on the Pebble road. I believe  
15 the road would have many benefits and it would employ a  
16 lot of people, but on the other hand, it would be horrible  
17 for our land and animals. This would affect our large  
18 population of salmon, and while giving people jobs, it  
19 will also take many away. I can think of many fishermen  
20 whose yearly salary is from fishing. And from Pebble's  
21 pollution, they would be forced to move and find jobs  
22 elsewhere. I don't think we are ready to give up our  
23 salmon, and I don't think we ever will be.

24 What We Want by Ella Gooden. Pebble wants the  
25 glinting gold copper, like a treasure from a sunken pirate

1 ship. We want our ruby red salmon, like gems floating up  
2 our rivers as clear as diamonds. They want the thin  
3 wrinkled money to fill their bottomless pockets. We want  
4 our pure blueberries to fill our worn, white buckets.  
5 They say they give jobs. That may be true. But Igiugig  
6 won't be Igiugig if it becomes a mineral slough.

7 They want the business. We want the land. They want  
8 the income. Why can't we live hand in hand? Because we  
9 want Igiugig, the moose and caribou, too. We want the  
10 ducks and geese. We want our river, our lake and our  
11 nature. You can't take her from us. It runs in our blood  
12 like the salmon. It beats in our hearts like the wings of  
13 an eagle. We are from Igiugig. This is our way. This is  
14 our life. You cannot take it, no matter the price.

15 Last one. Then I'll give mine.

16 First and foremost, mining is an extractive economy.  
17 Fishing and subsistence, when ecologically managed, are a  
18 renewable economy. However, that is not the whole story.  
19 It's more about, or ought to be about, living where you  
20 work and working where you live. The mining industry will  
21 arrive in the region, extract the materials they are  
22 after, and leave. The folks who rely on fishing and  
23 subsistence live here. They are locally invested.  
24 Generations of people living and learning on the land and  
25 handing that cultural legacy and evolution to their

1 children is a concept not easily grasped in this modern  
2 society, but it is an old story.

3       There is another story that has been happening in  
4 North America for 400 years since the arrival of  
5 Christopher Columbus based on the displacement of people,  
6 places, and culture by a western view predicated on greed,  
7 extraction and a disregard for other cultures. This has  
8 been repeated over and over again the world around. And  
9 it's repeating itself now, only the names have changed and  
10 the masses have given themselves over to the extractive  
11 economy by buying things they don't need with money they  
12 don't have, all the while destroying a land base that they  
13 do not understand.

14       Pebble Mine will negatively impact this region.  
15 Where is Pebble from? Time for them to pack up and go  
16 home. Tate Gooden.

17       I forgot to read his name first.

18       I do not want a road. Keep it natural. Why ruin  
19 Mother Nature? Look at the other places they ruin, and  
20 they move on to the next place. I am not the only one  
21 that want the mine. There is no more caribou around here,  
22 even up the lake area. I used to see the fish across the  
23 river and back behind the airport. Yako Nickoli.

24       Waqaa. Wiinga Otka Naruyagua. My English name is  
25 Christina Salmon. I was born and raised in Igiugig,

1 Alaska. I have many concerns about this proposed project,  
2 but I won't have time to mention all of them here today,  
3 so I will also be submitting written comments.

4 My first concern is with the icebreaking ferry. I  
5 don't think any studies have been done on the effect that  
6 it could have on the seals, the birds who migrate here and  
7 nest, the smolt that are leaving the lake as we speak  
8 today, and how it will interfere with the salmon runs in  
9 the summer. I'm also worried about Amakdedori and the  
10 road there. The elders tell us that there are old graves  
11 there where the road would run. And there have been no  
12 archeological studies there. And I think that's something  
13 very important to look into.

14 Another thing is that Igiugig Native Corporation  
15 lands are 15 miles from where the open pit mine would be.  
16 Dust and hard rock mineral debris would be blown into our  
17 berries and lichen, lichen that our caribou eat and then  
18 we, in turn, eat, as well. We have a lot of concerns  
19 about what will happen to our health if we are ingesting  
20 that.

21 This is also only a 20-year mine plan, and then a  
22 tailings pond forever. It's not worth it. And I believe  
23 that all of the risks outweigh the benefits in this  
24 project.

25 And lastly, we drink our water straight from this --

1 we drink our water straight from our river, and we are the  
2 first village downstream from the proposed site. It's our  
3 only water source, and it can never be replaced.

4 Thank you.

5 MR. SHANE MCCOY: Keilan Salmon.

6 MR. KEILAN SALMON: Hi. My name is Keilan  
7 Salmon. I'm 11 years old, and from Igiugig, Alaska.  
8 Salmon are very important to me and my family and because  
9 we are the caretakers of the last great wild sockeye  
10 salmon run in the entire world. My amau Mary taught me to  
11 always respect our fish and our clean water. My concern  
12 with this project, Pebble, is if something goes wrong and  
13 we lose our salmon and fresh water, fresh water that we  
14 drink straight out of the lake.

15 Thank you.

16 MR. SHANE MCCOY: Carl Hill.

17 MR. CARL Hill: Hi. Carl Hill, Igiugig.  
18 I just have a few notes here on some things that came to  
19 mind that I thought that EIS scoping should look at. One  
20 of the things that we don't know a whole lot about is the  
21 outmigration of salmon smolt from the east end of the  
22 lake. They all have to get to Bristol Bay somehow and  
23 they come to the Kvichak and go down the river. But we  
24 don't know what happens between there and here. So I  
25 think that's one thing that ought to be looked at closely.

1 Migration pattern of migratory birds. I know up on  
2 that end of the lake -- and this is concerning the  
3 icebreaking vessel. Up by Kokhanok the geese fly right on  
4 the deck right along the ice, and I know people have set  
5 up blinds at the point in Kokhanok to hunt them. So I  
6 don't know if that would be disruptive to them. So that's  
7 another thing you could add to the list. I'm sure your  
8 list is long.

9 Freshwater seal interference with the open channel  
10 all winter, I don't know what that -- what affect that  
11 would have or if anyone has done any studies on that.  
12 Would they concentrate in the channel because it has open  
13 water or -- you know, I think that's another thing to be  
14 looked at.

15 Pollution potential of the icebreaking vessel is  
16 another item that ought to be looked at. Impedance of ice  
17 travel for lake residents in the winter. There is a lot  
18 of traffic between Kokhanok and Iliamna and for Igiugig  
19 residents going seal hunting. And so that's a  
20 socioeconomic impact that I think ought to be looked at.

21 And then the potential for contamination due to  
22 airborne dust mainly from -- I know from the operation of  
23 the site and then from trucks going down the road. Those  
24 are a few items that I thought about. There is others  
25 that I'll include in my written testimony.

1 Thank you.

2 MR. SHANE MCCOY: Renae Zackar. Again,  
3 I'm going to apologize if I mispronounce. No offense  
4 intended.

5 MS. RENAE ZACKAR: My name is Renae  
6 Zackar. I'm from Igiugig. When I testified to the EPA on  
7 more than one occasion, I tried to use as much facts as  
8 possible, even if I'm not a scientist. Well, this time,  
9 since I have been saying the same thing over and over, I'm  
10 going to tell you how I feel.

11 I'm scared. I'm scared because this mine that is  
12 being proposed is a mine that is going to dig up sulfuric  
13 acid rock, pulverize it and then put the waste leftovers  
14 in what can only be called a giant manmade lake that has  
15 water poisonous to fish lined with an extra tough tarp.  
16 Not only that, but the proposed natural gas pipeline that  
17 they are planning on putting under Iliamna Lake can and  
18 probably will pose a risk and a problem.

19 The icebreaker barge and road systems proposed will  
20 have an effect on where we are allowed to travel and hunt.

21 When you look at what Pebble is proposing, you can  
22 see many more things that should cause fear in residents  
23 of this area and surrounding areas that depend on fish and  
24 clean water.

25 I'm angry and sad because I feel that greed is never

1 going to back down. Greed is the main motivator in this  
2 case, as the world does not need the gold, copper or any  
3 other minerals from this area. I'm sad because sometimes  
4 I think that this is never going to end until this area is  
5 a fishless clean waterless mining district. I'm angry  
6 with the mentality that says pollute for the sake of the  
7 already wealthy. Greed is the thing that makes me both  
8 sad and angry.

9 With all of those other emotions out, I'm also still  
10 hopeful. I'm hopeful when I see our young ones step up  
11 and speak out caring about what happens to our water,  
12 land, fish and wildlife and way of life. Also, I'm  
13 hopeful that you, not being the EPA but the Army Corps of  
14 Engineers, will see that this is the wrong mine in the  
15 wrong place.

16 Thank you.

17 MR. SHANE MCCOY: Randy Alvarez.

18 MR. RANDY ALVAREZ: My name is Randy  
19 Alvarez. I live here in Igiugig. I'm a commercial  
20 fisherman, have been for over 50 years in Bristol Bay, and  
21 I plan on keep on -- keep doing that, eventually have my  
22 son and grandson carry on, which my father did before  
23 him -- or before me. And so I'm deeply concerned about  
24 the impact this mine would have on our fisheries. I don't  
25 see, in my opinion, a whole lot of benefit, but I can sure



1 see a lot of risks.

2 In my opinion, there probably won't be any major  
3 catastrophes happen in the 20 years that Pebble is  
4 operating, but eventually something is going to happen up  
5 there and have a big water contamination or -- and it will  
6 impact our fisheries. Not only salmon.

7 This area where Pebble is going to be -- have this  
8 mine site is in this basin up there that, in my opinion, I  
9 don't think they realize how much water comes out of the  
10 ground up there because it's not only Kuktuli north fork  
11 and south fork and Upper Talarik Creek. There is also  
12 Middle Talarik and Lower Talarik, which is right down a  
13 few miles from Upper Talarik. And there is also Kaskanak.  
14 Kaskanak Creek is one of our biggest creeks in this area.  
15 And it runs right up into that between Kuktuli and up --  
16 they all run -- all these creeks run up that area and  
17 there is a lot of water that comes out to feed all these  
18 creeks and rivers.

19 There aren't any lakes up there. Most of that water  
20 comes from in the ground. There are some little ponds up  
21 in the upper lakes, but they are not very big. They are  
22 just kind of just wide parts of the creek. So with all  
23 that water going, even though they say they are probably  
24 only going to be in that north fork of the Kuktuli area,  
25 there is potential it will be impacting all the water

1 draining this way, also, because the water comes out  
2 there. There must be an underwater river or something up  
3 there because there's so much water that comes out of the  
4 ground up there to feed all these creeks and rivers that  
5 run up because there aren't any monstrous lakes.

6 So that has to be considered. And I'd like to see  
7 what the flow rates of all these systems are and where --  
8 the Corps or the State figure where all that water comes  
9 from that runs into all these creeks and rivers around the  
10 mine site.

11 And that has to come out and determine where the  
12 water comes from because if they are going to -- when they  
13 are dewatering and if they dewater an enormous amount and  
14 affecting not only the Kuktuli, some other creeks and --  
15 on this side of the mine site, it has to be taken into  
16 account.

17 The Lower Talarik Creek system typically -- or  
18 historically is -- has about a tenth of the Lake Iliamna  
19 sockeye return. Sometimes there is over a million sockeye  
20 return there to spawn. And it's far more than any of the  
21 other probably -- it's probably more than all these other  
22 systems that run towards that mine site put together. So  
23 that has to be protected and taken into account.

24 Another thing that one of the past testifiers had  
25 commented on was the ferry going across the lake. In my

1 opinion, it's going to affect the salmon smolt greatly  
2 because apparently the salmon, when they hatch, they will  
3 go out into the middle of the lake and stay out there in  
4 the middle of the lake and where they are away from  
5 predators. They are not like trout and other species that  
6 hang around the shore.

7 About three years ago there was a major bird die-off  
8 in the Gulf of Alaska. And I talked to a biologist from  
9 NOAA, and they said about half of the murrelets died off at  
10 that time. And they couldn't find any food in the gulf  
11 was the major problem. And a lot of them came over to  
12 Iliamna Lake. And the lake was not froze that year, and  
13 there was thousands of murrelets in Iliamna Lake all winter  
14 long. In fact, we had a meeting in Newhalen, I think it  
15 was in February or March. And a guy came from Kokhanok in  
16 a skiff to go to that meeting, and he said he couldn't  
17 believe how many murrelets were out there. And they were  
18 eating smolt. So there are a lot of smolt out there  
19 present.

20 If they are going to have a monster ferry going  
21 across the lake back and forth once a day, it's going to  
22 impact a lot of smolt. In fact, there were so many murrelets  
23 that came down -- the reason why we found out about it,  
24 there was about 6- to 8,000 dead ones on the beach on this  
25 side of the lake because we had prevailing east winds, and

1 it blew them all down here on the lake. And so I called  
2 U.S. Fish & Wildlife Service in King Salmon, and they said  
3 bring a bag down. So I filled up a black garbage bag, and  
4 this biologist from Washington, NOAA biologist asked me  
5 about these murre. He said, they had nothing to eat in  
6 the gulf, so they're coming over here to the lake to feed  
7 on smolt. So there are a lot of smolt that are out in the  
8 middle of the lake.

9 MR. SHANE MCCOY: Dannika Salmon.

10 MS. DANNIKA SALMON: Waqaa. Wiinga atka  
11 Atanuq. My English name is Dannika Salmon. I am nine  
12 years old. I've lived in Igiugig my whole life. I'm  
13 worried about Pebble's chemical pond. If it gets into our  
14 lake, it will kill our fish and poison our drinking water.  
15 I love catching fish and making dried -- cutting fish and  
16 making dried fish for our family in the winter. I am  
17 worried that we will lose that way of life if this mine  
18 happens. I love salmon.

19 Quyana.

20 MR. SHANE MCCOY: Jon Alvarez. Jon?

21 UNIDENTIFIED MALE SPEAKER: That's my  
22 grandson. I don't think he was going to say anything. He  
23 just signed up.

24 MR. SHANE MCCOY: I'll tell you what.

25 I'll come back. If he comes back in, we will give him an

1 opportunity. Audra Gooden.

2 MS. AUDRA GOODEN: My name is A.J. Gooden.  
3 I have been an Igiugig resident for seven years. The fact  
4 is that despite all of Pebble's preparation and posturing,  
5 they can't predict with any certainty that their  
6 activities will not degrade the land and living of Iliamna  
7 Lake residents, both human and other species. I'm  
8 referring to possibly ripple effects, which is a serious  
9 form of habitat destruction that occurs when an action has  
10 unexpected results. As explained by ecologist, biologist  
11 and well-known author Jared Diamond, "Species are  
12 connected to one another like branching rows of dominoes.  
13 Toppling one domino causes others to fall. Removing one  
14 species may lead to the loss of others, which in turn can  
15 push still others to the brink. Nature consists of so  
16 many species connected to one another in such complex ways  
17 that it's impossible -- impossible -- to foresee where the  
18 ripple effects from the loss of one species may lead."

19 So regardless of any precautions that may be taken,  
20 it is not predictable, the destruction that can occur.

21 We know that Bristol Bay, Lake Iliamna and their  
22 regional drainage systems provide habitat for the most  
23 significant salmon run on the planet. Can Pebble say with  
24 scientific certainty which parts of this sensitive  
25 ecosystem are critical to that habitat? And can Pebble

1 assure the public that its activities will not interfere  
2 with the naturally balanced processes of this ecosystem?  
3 Does Pebble know or care of the intricacy of the salmon's  
4 relationship with other species in and around the lake?  
5 What baseline studies have been done that might shed light  
6 on the potential ecological and social ripple effects  
7 caused by the proposed mining activities?

8       Specifically, how will Pebble's mining and extraction  
9 methods impact groundwater and air quality around the lake  
10 and along its Nushagak and Kvichak drainages? And how  
11 will the possible changes in groundwater and air quality  
12 directly and indirectly affect plants and animals in the  
13 region, as well as all the areas that would be disrupted  
14 by human activity, such as the site of the deepwater port  
15 on the Cook Inlet side and the proposed roads? How will  
16 ripple effects from the proposed mine impact local  
17 subsistence and the commercial fishing industry?

18       I assert that they can't predict what the ripple  
19 effects will be, so they cannot prepare for them. Until  
20 there are objective and scientific studies of this  
21 ecosystem and substantial research into the potential  
22 long-term ecological as well as cultural ripple effects of  
23 the proposed mining activity, including but not limited to  
24 changes in the composition of the groundwater and air and  
25 long-term changes in plant and nonhuman and human quality

1 of life, no mining activity ought to be permitted.

2 Finally, for a project that would, according to  
3 Pebble itself, require 10,000 years of monitoring and  
4 upkeep, a 30-day public comment period and a 90-day  
5 scoping comment period is simply too short. Give local  
6 people and others with a vested interest in the  
7 preservation of this unique ecosystem a more substantial  
8 time to voice their concerns.

9 Thank you.

10 MR. SHANE MCCOY: Michelle Ravenmoon.

11 MS. MICHELLE RAVENMOON: Thank you.

12 Michelle Ravenmoon. (Speaking in Dena'ina Athabaskan.)  
13 Greetings. My name is Michelle Ravenmoon. And I would  
14 just like to take a moment to acknowledge our ancestors of  
15 this region, both Dena'ina and Yup'ik, who took care of  
16 this land so that we could be here today. I hope you  
17 don't mind that I'm going to use detailed examples of what  
18 I find concerning about the Pebble plan. And I think -- I  
19 think that's really important because the people of this  
20 area know this land the best, and they have the knowledge  
21 that no one else in the whole entire world has. So this  
22 is -- it's really important that we do share our  
23 knowledge.

24 The first thing that I'm concerned about is the  
25 amount of people that will be coming. Pebble has

1 announced that they will have 1- to 2,000 people.  
2 Currently our population around Lake Iliamna is about 500,  
3 maybe 600; probably more in the summertime. But an influx  
4 of 2,000 people would quadruple our population, and I  
5 think it would be a big concern to what that would do to  
6 our area, not only just culturally changing our area, but  
7 the amount of waste management. We don't have the  
8 infrastructure in places like Newhalen and Iliamna for  
9 that kind of impact.

10 Another thing I'm concerned about is the icebreaking  
11 ferry, and that, as Randy and many others have expressed,  
12 one is the freshwater seals. And this year the lake froze  
13 up so quickly that seals actually were stuck outside on  
14 top of the ice and several were harvested in Kokhanok  
15 because they were, I'm assuming, trying to get to the  
16 Gibraltar River where there is open water. And their  
17 stomachs were all cut up from crawling across the ice or  
18 hopping across the ice as seals do. So I know if there is  
19 a ferry going across the lake opening water, I'm sure the  
20 seals will be there.

21 In addition to that is, as it was mentioned, too,  
22 with the salmon smolt. And if you look at the map where  
23 the icebreaking ferry will go, on the east side is 80 to  
24 90 percent of our salmon spawning waterways. And that  
25 includes the Newhalen River, the Pedro Bay area, Pile Bay,



1 Iliamna River, Intricate Bay with the Copper River,  
2 Kokhanok Bay with Gibraltar. And all of those salmon  
3 smolt coming out of there will have to cross the  
4 icebreaking ferry's path to get to the Kvichak River to go  
5 out to the ocean. So that concerns me.

6 What else concerns me is the Amakdedori port, not  
7 just the 4.5 miles of dredging that they will do, in  
8 addition is that is a historical landmark. Everyone, not  
9 just Kokhanok, use the Amakdedori as a subsistence place.  
10 And there was a settlement there. I've talked with  
11 elders, and there are graves that are there. And it's  
12 still used. In the film it says that it was not -- they  
13 tried to go around subsistence use areas, but it is still  
14 used. We take our kids there for culture camps and for  
15 harvesting to teach them about our ways of the past.

16 I'm not sure if you guys know this, but Lake Iliamna  
17 is known to have a Lake Iliamna monster. And I just  
18 wanted to point out that we don't know what's in this  
19 lake. And we -- there needs to be a whole lot more  
20 studies because in 2015 my sister set her net in Pope  
21 Vannoy and she caught a couple of salmon in May. And that  
22 was early for us to catch salmon. We don't normally catch  
23 salmon till the end of June, and then the salmon runs in  
24 the first week of July for us. So everyone freaked out  
25 and thought it was going to be an early salmon run. That

1 year the salmon was a week late.

2           What we noticed about the salmon was that it was --  
3 the salmon that she caught -- and I ate it and it tasted  
4 good, but it was pale. It wasn't red like the normal  
5 sockeye salmon. And as we all know, the salmon that go  
6 out to the ocean, they eat krill and that's what makes  
7 their flesh red. So this was pale salmon. They were  
8 smaller. And what we speculated is that these salmon  
9 never left. They lived and grew up on Lake Iliamna. And  
10 where is the studies on that? So I would encourage that  
11 to be looked at further.

12           So we met with Pebble. The borough met with Pebble.  
13 And just as a note, I'm representing myself. I'm not  
14 representing the borough when I say this. But I asked  
15 Pebble what is the biggest risk considering that we  
16 have -- this is a place where we have earthquakes,  
17 volcanoes, extreme weather conditions and a lot of water.  
18 I said what is the biggest risk of putting this mine in.  
19 And they said, it's the human factor. And I can  
20 understand that because you know we mess up. We are  
21 humans.

22           But I want to point out that in -- that salmon have  
23 been around for 10 million years. Sockeye salmon have  
24 been around for six million years on this earth. And in  
25 the 1000s to the 1500s, Scotland, France, England, they

1 all destroyed their salmon fishery there. They didn't  
2 understand that the salmon needed to go up the rivers to  
3 spawn and that they needed to come out. They were -- they  
4 were harvesting the smolt and they were blocking the  
5 rivers, and they destroyed their fishery.

6 In the 1500s, they moved their focus to the New  
7 England area, Maine, Canada, and from the 1500s to the  
8 1800s, they destroyed their fishery there. And that's the  
9 Atlantic salmon. In the 1800s they moved their focus to  
10 the Pacific side from Oregon to California, Washington,  
11 that whole area. And they have been working with  
12 hatcheries and farmed salmon and trying to -- trying not  
13 to destroy their salmon. However, they still severely  
14 decreased their salmon populations there. It's  
15 devastating to think about, think about the Native people  
16 there that through dams, the places that they  
17 traditionally harpooned salmon is underwater. The  
18 waterfall that they stood at is underwater because it's  
19 under a dam.

20 And so now we have the last great sockeye salmon  
21 spawning grounds in the world here. And we are  
22 considering a mine that could possibly risk that. And I  
23 would just say, looking at that history, the human  
24 factor -- the human factor, it just doesn't prove to be  
25 something that can guarantee anything. Us humans, we have

1 messed up a lot of things. And to think about Pebble  
2 saying that the human factor is what the biggest risk is,  
3 you know, just look at our history.

4 So I would like to say thank you to Igiugig for  
5 hosting this meeting. Thank you for coming out.

6 Camai.

7 MR. SHANE MCCOY: John Chukwak.

8 MR. JOHN CHUKWAK: Hello. My name is John  
9 Chukwak. I was born in Dillingham, raised in Branch  
10 River, South Naknek and live in Levelock. And I would  
11 like to thank Igiugig, UTBB for flying me up here, and I  
12 guess Army Corps of Engineers since they bypassed  
13 Levelock. Talk about streamlining. Anyway. Okay.

14 Thank you, God. You are so wonderful. Like  
15 clockwork, everyone is getting excited and happy in  
16 anticipation for the arrival of Bristol Bay red salmon.  
17 Summer of 2018, Fish & Game is projecting 51.3 million  
18 salmon, an incredible volume of a wonderful God-given  
19 renewable resource that returns every summer. So many  
20 ways to prepare salmon from smoking, pickled, baking,  
21 canned and various other ways to enjoy flavor like no  
22 other. Like day and night, there is no comparison to  
23 farmed salmon. To me farmed salmon is steroids with food  
24 coloring added.

25 For about two weeks out of any given season, Bristol

1 Bay never sleeps. Canneries start up, laborers, beach  
2 gangs, cooks and fishermen, and people from all over show  
3 up. Local businesses, airlines, taxicabs, restaurants,  
4 stores pick up and stay open longer to accommodate the  
5 salmon summer gold rush of people. Happy to see old  
6 friends and meet new friends. KDLG gives out daily  
7 reports along with the Port Moller index reports. The  
8 Naknek River, along with the boat harbor in Dillingham  
9 fills up with boats ready to fish, with more jumpers  
10 coming into the arteries, the mighty Nushagak and the  
11 beautiful river, Kvichak River.

12 Fish camps like Lewis Point and various other places  
13 up and down both rivers get busy with people getting their  
14 summer camps ready: Smokehouses, wood gathering, nets  
15 mended and various different lodges fly clients from  
16 around the world to catch the huge Nushagak king salmon as  
17 with the Kaskanak flats and Upper and Lower Talarik Creek  
18 for the huge trout, living the dream.

19 As salmon season comes to a close, ducks, geese,  
20 moose, caribou season starts up, and at the same time  
21 people are out gathering salmonberries, cloudberryes,  
22 cranberries, black, blue, highbush are picked and stored  
23 in the freezer along with the red salmon fillets and all  
24 too soon it's over till next season like clockwork.

25 As I was reading this newsletter on the Pebble Mine,

1 three things got me to thinking about it: Titanic, Exxon  
2 Valdez and Deepwater Horizon. On paper it looks good.  
3 Well, when the people designed the Titanic, they said it  
4 won't sink. This newsletter reminds me about that. And  
5 Exxon Valdez, human factors caused that unfortunate  
6 incident, which should not have happened. And Deepwater  
7 Horizon, oil companies said they had new technology on  
8 deep drilling. When the cap broke off, they tried three  
9 or four times and failed till they got it.

10 For each new technology comes a whole new set of  
11 problems. Who knows if the icebreaker might be adrift on  
12 the lake from faulty fuel, air lock in the fuel, or any  
13 other unknown factors. And with 188 miles of natural gas  
14 pipeline near Happy Valley to the mine site, we have had  
15 an earthquake 175 miles south of Kodiak that registered  
16 7.9 on January 27, 2018.

17 It is not a matter of if, but when one quake could  
18 happen closer to the pipeline near Homer or on the lake  
19 that could cause a break or multiple breaks on a gas  
20 pipeline. Do they have the technology to contain the  
21 spill? And maybe on the lake with the icebreaker dead in  
22 the water, a huge wave might cause it to slam into Eagle  
23 Bluff and sink to the bottom. Do they know how to contain  
24 the fuel as it leaks out or retrieve the icebreaker?

25 The worst case and my worst nightmare would be when

1 the earthquake or any other natural catastrophe, as we  
2 witness worldwide how the weather is changing from bad to  
3 terrible to worse. And the breaks -- and breaks to  
4 tailings storage facility and eventually makes its way  
5 down to the two arteries, the mighty Nushagak and the  
6 Kvichak on to the North Aleutian Basin, also known as the  
7 Bristol Bay.

8 Living the dream, life as we know it from the oldest  
9 person in here, the grandparents to the youngest  
10 generations, activities would stop working like a broken  
11 clock.

12 Thank you.

13 MR. SHANE MCCOY: Jeff Bringham.

14 MR. JEFF BRINGHURST: In the interest of  
15 time, I have a more detailed written statement I'll submit  
16 onto the website, but I'm just going to talk about two of  
17 my biggest issues with the EIS and what I'd like to see.

18 So good afternoon. Welcome to Igiugig. And thank  
19 you for taking the time to listen to our concerns. My  
20 name is Jeff Brinkhurst. I'm a father, I'm a farmer and a  
21 commercial fisherman. I'm married to Christina Salmon,  
22 and we have four children we are raising in Igiugig. And  
23 I am deeply troubled for their future if this mine is  
24 built.

25 Our kids are growing up in a community that's working

1 hard to achieve goals and cultural revitalization,  
2 place-based education, food security, job opportunities  
3 and renewable energies. All of these things our kids get  
4 to be a part of in an effort to leave them with a  
5 sustainable infrastructure that they will be able to build  
6 on and pass down for many generations to come.

7 So my first and biggest concern with this mine is  
8 that Pebble has submitted a smaller mine plan, yes. 20  
9 years is the estimate that they are giving us. Even at  
10 its current size, it will be the biggest mine in North  
11 America, but only operate for 20 years? We all know  
12 differently. The massive amount of infrastructure needed  
13 to make this mine plan work is not for a 20-year mine.  
14 You don't build an 85-mile road in this country for 20  
15 years of operation. You don't lay 200 miles of natural  
16 gas pipeline and a power plant big enough to power  
17 Anchorage for 20 years of use. This is all setting the  
18 stage to open up Bristol Bay as a mining district.

19 Pebble and anyone who is permitting them to do so are  
20 taking this region built on the beautiful and sustainable  
21 salmon runs and transforming it into strips of craters and  
22 lakes of poison. This is what we will hand to our  
23 children, land that is sick and charred and could quite  
24 possibly devastate the things we hold dear, all for that  
25 little yellow metal that has blinded greedy men for



1 centuries.

2           Therefore, this EIS must broaden its scope to take  
3 into account the effects that a much larger mine and even  
4 multiple mines have on this region because we all know  
5 Pebble is not going to mine just the one billion tons of  
6 ore in this current mine plan and then leave the other 10  
7 billion tons sitting there. By then it will be too late,  
8 though. Everything will already be in place, and none of  
9 the regulators will have any good reasons to say no  
10 anymore.

11           My second biggest concern in all of this is that an  
12 EIS is even underway on a plan with so little baseline or  
13 feasibility information attached to it. Northern Dynasty  
14 has never developed a mine before, and yet we're letting  
15 them move forward with a plan that they just drew up but  
16 they didn't study. There is 85 miles of road, much of it  
17 through fragile wetlands. There is a 200-mile natural gas  
18 pipeline laid right through a highly active seismic zone.  
19 There is the massive amount of dredging to be done for  
20 their port in Cook Inlet. There is an icebreaking ferry  
21 that will alter the lives of the animals that live on the  
22 lake and alter the ice freeze pattern so much that there  
23 may be loss of life on the lake because of it. That's our  
24 lives. That's my wife and my kid and my own lives and the  
25 lives of everybody in here who spends time on that lake

1 every winter.

2           Where is the information? They keep telling us they  
3 can develop this mine safely and responsibly, but where is  
4 the baseline information to back that statement up? This  
5 is everything to us. It's the water we drink every day.  
6 We are all connected by water here in hundreds of ways.  
7 There is no way Pebble can be built at our headwaters and  
8 not adversely affect us in hundreds of ways.

9           You have traveled around and listened to a lot of  
10 impassioned testimony on this, and you have to listen to  
11 the people who live here. You are Alaskans and you are  
12 responsible for the welfare of this land. Knowing what  
13 you know about Bristol Bay, are you going to be the ones  
14 that open the door to something that could forever destroy  
15 this pristine ecosystem? It's the wrong mine in the wrong  
16 place.

17                   MR. SHANE MCCOY: Taya [sic] Salmon.

18                   MS. TANYA SALMON: Hello. My name is  
19 Tanya Salmon, and my Yup'ik name is Uyangquq. My sister  
20 likes to point out that my Yup'ik name means not only to  
21 look, but really crane my head and look around. I'm a  
22 community health aide for Igiugig. I have chosen to live  
23 in Igiugig because it's a safe, beautiful place to raise  
24 my daughter. I love being in a community that takes pride  
25 in our school, our children and our elders.

1           That being said, I am against mining in Bristol Bay.  
2 I believe that our region is amazingly unique with all of  
3 our natural resources, our wildlife, our plants, our  
4 culture, and our way of life.

5           Growing up and to this day summers are my favorite  
6 time of the year. Without fail, the village is electric  
7 with anticipation for the arrival of salmon. All  
8 generations work together splitting, brining, hanging,  
9 smoking and cutting fish. In the middle of working,  
10 someone would run up to the smokehouse and put a fish on  
11 the fire and boil up some fish heads and eggs for soup.  
12 Everyone eats together. Neighbors coming by will stop and  
13 have a snack, and everyone is welcome.

14           Salmon, although it's our most prized fish, it isn't  
15 our only resource. We have many lodges who operate out of  
16 Igiugig and several local small businesses that support  
17 sportfishing. People come from all over the globe for  
18 world-class trout fishing and to take in the beautiful  
19 views. We rely on caribou and moose to fill our freezers.  
20 People hunt wolves and wolverines, which are prized for  
21 their furs. Every spring the outdoors people sport  
22 raccoon goggles from spending their days hunting for  
23 geese.

24           I know that if the mine is under operation, these  
25 animals will leave the area. Or the geese may land in the

1 tailings pond, which is a very big possibility, and we all  
2 know that that has deadly consequences.

3 If the mine opens, I am worried about air pollution,  
4 not only from the equipment, but from toxic dust floating  
5 around. High winds are very common in our region. Just  
6 look at some of our buildings that have blown over or have  
7 completely blown away. Toxic dust landing on our plants  
8 and berries which we use to eat and for medicinal purposes  
9 can cause many long-term health problems.

10 I grew up drinking water straight from the lake and  
11 river. In fact, many people here still prefer to drink  
12 water from Lake Iliamna and Kvichak River. We have sent  
13 water samples in, and the purity is amazing. When I hear  
14 of water shortages and the poisons in the water happening  
15 throughout the United States and the entire world, I am  
16 grateful to have the best water readily available.

17 The mine itself is very scary. With the failing  
18 tailings dams occurring throughout the world and the  
19 devastating results, it amazes me that a mine in our  
20 fragile area is still a consideration, especially when a  
21 majority of the people have spoken up and said no. When  
22 things fail and we are left with nothing, I don't want to  
23 look the younger generation in the eye and say that I  
24 didn't do anything to help prevent this.

25 Quyana for coming to my community and listening.

1 MR. SHANE MCCOY: Jem Gooden.

2 MR. JEM GOODEN: Hi. I'm Jem Gooden. I'm  
3 worried that bad materials will get in the water and kill  
4 the fish eggs and harm the ducks and plants by poisoning  
5 them.

6 MR. SHANE MCCOY: Annie Wilson.

7 MS. ANNIE WILSON: (Speaking in Yup'ik.)  
8 I am the daughter of Evan and Stephenila Apokedok. I  
9 would like to say about this mine, it will ruin our way of  
10 life and our lives. Who knows what goes underground  
11 swamps, creeks, lakes, rivers will affect our health.  
12 Wild animals, birds, fish, plants that we eat, Igiugig is  
13 the first village that will be hurt. We have north winds,  
14 east winds that come pretty regularly, and down toward the  
15 Bristol Bay it will -- even my grandparents years ago used  
16 to say, if you watch out, if you live long enough, you  
17 will see what's going to be coming. And they had no  
18 schooling whatsoever.

19 This will affect and ruin all the [indiscernible]  
20 that are being used out there. And who knows what kind of  
21 animals are under this Big Lake. Spawning areas that lay  
22 on the islands. There are also salmonberries on the  
23 islands. And all kinds of animals, fish, birds will die  
24 off. Dredging will kill off all kinds of fish, seals,  
25 also whatever is below the lake. The lake is so big and

1 deep. We would want to keep this safe for generations to  
2 come.

3           Quyana.

4                   MR. SHANE MCCOY: Julie Salmon.

5                   MS. JULIE SALMON: Hello. My name is a  
6 Julie Salmon. I live here in Igiugig. I do not support  
7 the development of this project because the mine is going  
8 to disrupt and destruct our earth and put toxins and  
9 poisons in the water and air. If we are not able to drink  
10 our water and our fish are not healthy because of  
11 pollution from the mine development, it will impact the  
12 food we eat and the water we drink, which is our lifeline  
13 and affects our way of life. Do not allow this mine to be  
14 permitted.

15           Thank you.

16                   MR. SHANE MCCOY: Alicia Zackar.

17                   MS. ALICIA ZACKAR: My name is Alicia, and  
18 I'm not very talkative, but I wanted you guys to study the  
19 impact on the plants more thoroughly. I love berry  
20 picking in the summer. It's one of the things that really  
21 calms me. And I'd hate for the mine to take that away  
22 from me and the future generations.

23           Quyana.

24                   MR. SHANE MCCOY: Sandra Alvarez.

25                   MS. SANDRA ALVAREZ: My name is Sandra

1 Alvarez, and I am a resident of Igiugig. I have been in  
2 the Bristol Bay salmon fishery for 48 years. Lived in  
3 Igiugig as a resident for 35 years. And I came here as a  
4 newly married lady, and I now have a grandson who lives  
5 here, as well. I came here not because I had to, but  
6 because I love the way that this area is, the wildlife and  
7 the clean area.

8 I guess I'm somewhat cynical because I grew up in  
9 western Washington where it was a farming community, which  
10 was bought up by ARCO. And their biggest west coast  
11 Cherry Point Refinery is situated there, and I witnessed  
12 the destruction of the environment there as they went into  
13 production. And I'm sure that they were under all of the  
14 appropriate rules. Dairy farms and people suffered  
15 consequences that were unintended and unexpected. And  
16 they subsequently bought up a lot more property. So  
17 everywhere that I lived as a young person is no longer a  
18 community.

19 I'm by no means naive. I realize that these cell  
20 phones and things that we all walk around with in our  
21 pocket is what's driving the development of this mine, and  
22 the people all around this planet who call for that are  
23 what keeps it going.

24 My concern is that if they succeed in my lifetime to  
25 get it going, it may go into production without enough

1 safeguards and without requirements that will make them  
2 continue to mitigate anything and everything that comes  
3 up, even if it's not something that was in the rules at  
4 the time. And I also am concerned that, as companies do,  
5 may go into bankruptcy and just leave the entire area  
6 holding the bag without proper -- or I mean, without  
7 funding and whatever to clean it up. And the domino  
8 effect that was mentioned by A.J. Gooden would fall to all  
9 of us and we would live in a place that is decimated.  
10 Mitigation is a nice word, but it doesn't always happen  
11 and it isn't something that they can foresee years down  
12 the way.

13 And so I would encourage you to hold them to the  
14 highest standard. I would much prefer to see the historic  
15 fishery continue as it has. And sure be nice if the mine  
16 cropped up somewhere else that they could go do something  
17 about, you know. The not in my backyard thing is -- is  
18 the way we feel about this.

19 But the points that have been made are very valid and  
20 the lack of studies on the entire region just because  
21 there is not a lot of us is a serious deficiency.

22 Thank you.

23 MR. SHANE MCCOY: Daniel Chythlook.

24 MR. DANIEL CHYTHLOOK: Hello, guys. I'm  
25 Daniel Chythlook. Years ago when I was a young child my



1 parents used to take me to the beach. We put up fish,  
2 starting from king salmon all through. And our parents  
3 told us those are our food. They are our spirits. We  
4 need them. My freezer's got [indiscernible]. Hurry up.  
5 The kings are coming can. We had a dog team years ago.  
6 So besides getting salmon for ourselves, we had to get a  
7 whole bunch of food for our dog team.

8 All of us as locals really appreciate our salmon  
9 species. That's our spirit food. We need it, besides our  
10 moose, caribou and our edible plants.

11 From a young age my parents, aunts and uncles told me  
12 about the importance of clean, healthy water.  
13 Everything -- we all need clean, healthy water to survive.  
14 All the foods I've eaten, as well, especially our plants.  
15 You know, the medicinal plants. It's our medicine. We  
16 get hooked on them, but medicinal plants are better. They  
17 are natural.

18 I don't have anything against mines but this proposed  
19 Pebble Mine is just in the wrong place. If built, the  
20 mine tailings and wastewater can by accident be spilled  
21 into the land, air, water and contaminate all our foods.  
22 And we need them foods. We can't eat gold. We live off  
23 the land, and still continue. We won't be able to do that  
24 anymore if something happens, a spill happened.

25 We were watching the news the other day, a spill

1 happened someplace, and the poor Native people, they lost  
2 all their foods. We don't want that to happen in our  
3 area. Huh-uh.

4 This area where we live, besides being subsistence,  
5 we also have recreation, sport and commercial fishing.  
6 And our main resource that we need for that is salmon to  
7 survive.

8 Quyana.

9 MR. SHANE MCCOY: Dennis Andrew, Sr.

10 MR. DENNIS ANDREW, SR.: I testified at  
11 the New Stu last time. I'm from the village of New  
12 Stuyahok. And I'm an elder now, 66. And what really  
13 concerns me, that barge. I do a lot of barging at  
14 Nushagak, and with the wind you can't control it in this  
15 lake, especially. That whole lake going across there, I  
16 mean, the ice -- and if the ice -- if the ice start really  
17 moving, no matter how much power you got on your barge and  
18 stuff, Mother Nature will overpower that barge. Pressure  
19 cracks are real powerful. You can get pulled under or  
20 sideways if you can't control it. It's really bad. This  
21 barge system here should be absolutely -- I mean,  
22 shouldn't be disturbed.

23 You know, the same thing on the Nushagak when I said  
24 even on this side in this whole Bristol Bay, period. It's  
25 our dinner table. It's our kids. All the wildlife, the

1 salmon, the fish comes to Bristol Bay, period. Leave our  
2 dinner table alone for another 1,000 years or better.

3 Thank you.

4 MR. SHANE MCCOY: Sherry Nelson.

5 MS. SHERRY NELSON: (Speaking in Yup'ik.)

6 I don't know because my dad was orphaned. (Speaking in  
7 Yup'ik.) John and Agafia Nelson were my parents.

8 My concern about this proposed private road system  
9 that is supposed to be approximately 100 miles that goes  
10 over from the mine site to Lake Iliamna and then the ferry  
11 system that goes -- or whatever you call it -- from this  
12 end over to the other side towards lower Gibraltar Creek  
13 or River, which is going to be used to haul minerals from  
14 the mine along with its waste across more than 200  
15 streams, lakes and rivers. To name a few, there is  
16 Gibraltar on this end and then Upper Talarik on this end.

17 And the tailings waste that will come from the dust,  
18 which is produced from the acid-producing mine, dust.  
19 This is going to come from a -- we all know it's going to  
20 be a 10 point billion tons of substance you guys are going  
21 to get from the earth, or they will get from the earth,  
22 not the 1.2 million proposed that they have on paper.

23 So I have attended a couple of what they call mine on  
24 papers or oil on paper, well on papers. They talk about  
25 all these studies and everything. So what I'd like to see

1 is the studies that a road system will have from the dust,  
2 not just from the road itself, going into the lower  
3 Talarik Creek, which is a corridor adjacent from Lake  
4 Iliamna to the mine.

5 The waste and the minerals would be in containers  
6 but, you know, not all drivers are careful. There will be  
7 people who run off the road. It will become icy in the  
8 wintertime. It will become hazardous to travel. And this  
9 road will be a private road, you know. We are not -- they  
10 won't allow us to go on there if we had to or if we need  
11 to cross it and go somewhere. We travel between here and  
12 Newhalen. Our parents travel, grandparents. People have  
13 used this lake to go up and down here to Kokhanok, here to  
14 Newhalen. We even used trucks one time to go up to  
15 Newhalen for a carnival. So we wouldn't be able to do  
16 that if we had that system there blocking our right of  
17 passage.

18 My other concerns is the barge use and then the  
19 winter icebreaker barge going back and forth and the  
20 interference it will cause for the salmon, all the other  
21 fish species in the water, the mammals, the seals, otters,  
22 beavers that live out there. And like everyone said  
23 before me, this is a big lake. We don't know what's out  
24 there. There is things out there people can't describe.  
25 Or they describe it, but we don't know what it is, you

1 know. And more than one person, credible people have  
2 witnessed the lake monster. There, it's on paper.

3 Okay. So it's a rare species. You've got to study  
4 it. If you can tell me what it is or what it feeds on and  
5 where it lives, then you can do something out there on the  
6 lake. But until then, no. That's one point.

7 And another local delicacy which all of us enjoy and  
8 people come from miles around are the seagull eggs. You  
9 know, the seagulls nest out there on the islands and lay  
10 their eggs. And we go harvest them every spring. And  
11 what do they eat out there is they eat the fish, the  
12 salmon. So that needs to be studied, as well, you know,  
13 the feeding habits of all the animals that are in Lake  
14 Iliamna.

15 On the Amakdedori site, it has been a long-used  
16 historical site, as aforementioned. And I talked to my  
17 uncle not long ago, and he said there could be grave sites  
18 out there, because people around Lake Iliamna were nomadic  
19 people. We weren't going to stay here and live here  
20 forever. We go follow the food. So like what's-his-name  
21 said, leave our dinner table alone. I totally agree with  
22 that.

23 So I could add more, but I think I've made my point,  
24 and I hope you guys understand. And that's all I have.  
25 Thanks.

1 MR. SHANE MCCOY: AlexAnna Salmon.

2 MS. ALEXANNA SALMON. (Speaking in  
3 Yup'ik.) I'm AlexAnna Salmon, and I formally welcome you  
4 to the lands of our sovereign nation in a sacred language  
5 we have kept alive for the last 10,000 years. I stand  
6 before you the 334th generation of the Igyararmiut and a  
7 mother of six, Ungalaq being the youngest here.

8 We are people who have sustained ourselves on salmon  
9 and caribou. And just look at us. We are happy, we are  
10 healthy, and we are a thriving nation. So I ask the Corps  
11 to assess the project on a 10,000-year timeline because  
12 that's how long this mine site will need to be monitored  
13 and maintained. To me that seems fair.

14 But we have to keep our asks reasonable and our  
15 timeline within a foreseeable future. If that request is  
16 found to be ludicrous, then so is Pebble's request to ask  
17 us to consider all this harm for a 20-year mine life.

18 Igiugig is the first nation downstream from the  
19 proposed Pebble Mine and the first nation downwind of the  
20 prevailing east wind. And I come before you with very  
21 specific concerns.

22 My first concern involves the depth of the mine  
23 tailings cover. I'm really worried about the wind and  
24 wave erosion on the site, and wind-induced waves can  
25 resuspend flooded tailings, thus increasing the

1 possibility of oxidation and acid generation.

2 Our second concern is air quality. Please visit  
3 Igiugig in the summer and watch a plane take off on our  
4 runway. We know air quality issues. And we are talking  
5 about an enormous mine footprint with all of the  
6 infrastructure. And I just cannot imagine the dust  
7 issues.

8 And that brings me to, have sufficient baseline  
9 studies of our water, air, tundra, soil and all that  
10 inhabit them been conducted at the site and infrastructure  
11 corridors? Not only that, we ask this of the State of  
12 Alaska: How can permissible limits of air and water  
13 quality even be enforced?

14 I'm not going to take up all of your time today  
15 because everyone before me spoke much more eloquently  
16 about these specific concerns, but not a lot of people  
17 talked about what is my greatest concern. My greatest  
18 concern is Pebble's impact on our nation, my people, whose  
19 voices you heard today, from our oldest to our youngest  
20 members. I haven't heard any mitigation plans for the  
21 sociocultural economic impacts, and that's perhaps because  
22 it simply cannot be mitigated for.

23 So Quyana.

24 MR. SHANE MCCOY: Lydia Olympic.

25 MS. LYDIA OLYMPIC: My name is Lydia

1 Olympic. I'm a former tribal council president here.  
2 I'm -- I have a whole shit -- a whole thing -- whole bunch  
3 of things -- I'm trying not to swear. A whole bunch of  
4 things that I'm concerned about; however, I'm going to  
5 highlight just a few and then I'll send in a written  
6 comment.

7       What scares -- what scares me the most is there are  
8 no baseline quality assessments anywhere on the Amakdedori  
9 side, on the road corridor, on Lake Iliamna. There is no  
10 air quality assessment. And you know we need five years  
11 of data, five years of QAPP-approved air quality baseline  
12 assessment. Number one ask. Number two ask is water  
13 quality assessment, a baseline water quality assessment,  
14 like air quality, you need five years of QAPP-approved  
15 assessment that could stand up in court. And QAPP is  
16 quality assurance project plan. I had to write one for  
17 here.

18       And like everyone said about Amakdedori being a  
19 culture place, I used to go to Amakdedori as a child. My  
20 dad's cabin is still in Amakdedori. He's got a little,  
21 tiny cabin with a stream right next to that creek. And we  
22 would go over there early in May right after school was  
23 out because we would set the net out because salmon came  
24 over there first before they came on this side. So Betsy  
25 and I used to go over as kids and spend a lot of time with



1 my dad on that side. And there are grave sites over  
2 there.

3 So we need to look -- you need to do a study on how  
4 much we use the saltwater side of the ocean, whether it's  
5 clamming or putting the net out or looking for those  
6 groundhogs or marmots. That's the third ask.

7 A fourth ask is how can you look at the cumulative  
8 effects of mining on culture and why is there no  
9 mitigation for culture? I don't trust this process, as  
10 many times you said trust this process. Well, we can't  
11 trust this process because your boss is deregulating every  
12 second. Every day he deregulates something. So how can  
13 we trust the federal government when he's -- when your  
14 boss is making -- doing away with those regulations that's  
15 supposed to protect the environment?

16 And another thing that bothers me is you say trust  
17 the process but yet you, Army Corps of Engineers, was only  
18 going to give us 30 days to comment on the scoping period.  
19 Then you got pressure and extended it to June 29th.  
20 That's not enough for a project of this size. And two  
21 years? Donlin Creek is getting eight years. So how --  
22 how can we trust the federal government when so many  
23 things are going wrong from the very top to Army Corps of  
24 Engineers giving us this small amount of time?

25 Like I said, a QAPP needs to be -- we need five years

1 of -- of data. They have -- Pebble have given you  
2 requests for permits -- I'm sorry to use bad language --  
3 on half-assed, you know, permits. They don't -- they  
4 didn't do their homework. They don't have current data.  
5 What they have is from 1991 -- or 2001 to 2009. We need  
6 current data. That means 2018 to 2023 baseline quality,  
7 air quality assessment, water quality assessment, lichen,  
8 plant, vegetation studies.

9 I could stand here all night and tell you all the  
10 things that needs to be done and all the asks that we  
11 have. But I don't have all night. So those are my four  
12 or five asks of you. However, I will send in a written  
13 one, too, or several of them.

14 Thank you.

15 MR. SHANE MCCOY: Ida Nelson.

16 MS. IDA NELSON: Good afternoon. Or good  
17 evening, actually. Quyana for coming to our village, our  
18 home and our livelihood. I hope you are enjoying your  
19 stay here. Although your time is limited, thank you for  
20 giving us this opportunity to come and give you part of  
21 our hearts.

22 I'm Ida Nelson. I'm a single mom of two beautiful  
23 daughters, ages 13 and 10. I'm afraid of this mine, if it  
24 were to go through, how it would affect the many lives of  
25 generations of people ahead of me. The impacts of this

1 proposed mine and the possible risks of this mine would  
2 not only affect my children's lives, but their children's  
3 and their grandchildren. It is too big of a risk to take  
4 and hand it over to my children and say, okay, it's your  
5 turn, it's your problem. I'm not going to do that. I was  
6 not raised to do that. I'm not designed to be like that.

7 And it is up to me today to speak up for our children  
8 to protect them, to love them and give them the best start  
9 ahead in life. This is a decision that we today, as  
10 people, to make that will affect our future generations of  
11 our village. I do not want them to turn to me and ask,  
12 why didn't you say anything? Why didn't you do something  
13 about this?

14 Today I am here. I want to be a good ancestor.  
15 Everything you see today is everything that -- well is  
16 everything that will have an impact on our way of life as  
17 you see it now. We live off the renewable resources that  
18 we -- resources and we treat it with respect. That was  
19 taught to me by my parents, and it was taught -- and  
20 that's what I'm going to teach my children and future  
21 grandchildren, and so on and so forth.

22 From what I understand, this mine plan that was  
23 submitted was not completely studied and understood. It's  
24 just a plan of what works in the western world and what  
25 looks good on paper, not having an understanding of how it

1 would impact the lives downstream from the mine and not  
2 having -- and having that thinking that we are obsolete  
3 and it doesn't matter to us. We do matter, and we are  
4 here because of the renewable resources we thrive on  
5 today. The impact of the ferry during the wintertime will  
6 affect the freshwater seals and they will only see it as  
7 an opportunity -- they won't see it as a threat, but  
8 they'll see it as an opportunity to breathe. They can get  
9 depleted.

10 And I worry about the impacts of possible fuel spills  
11 on the lake. Who will be there to clean it up? Who will  
12 be responsible to clean it and the effects on the  
13 environment and the people. The risks are too great from  
14 this mine and to the future generations of Igiugig.

15 Thank you.

16 MR. SHANE MCCOY: Sheryl Wassillie.

17 MS. SHERYL WASSILLIE: (Speaking in  
18 Yup'ik.) My grandparents on my mom's side are Tulukaruk  
19 and Qamurlaria. Their English names are John D. Nelson  
20 and Agafia Gust. My grandparents on my dad's side are  
21 Yaqulek and Takussngaq. Their English names are Ira  
22 Wassillie and Louise Anelon. I'm the daughter of Keglunaq  
23 and Uukuciq. Their English names are Terry Wassillie and  
24 Sherry Nelson. And I am Aiggiyaraq, and my English name  
25 is Sheryl Wassillie, and I'm from Igiugig.

1 I'm the water operator assistant, Yup'ik language  
2 instructor/learner. And like everyone here, I strongly  
3 oppose the Pebble Mine. We have been here for 10,000-plus  
4 years and still have a thriving ecosystem. That speaks  
5 volumes. Our ancestors of this area knew how to keep the  
6 balance, and that information has been passed down to each  
7 generation. We know this land better than anyone.

8 The EIS should include a section on traditional  
9 ecological knowledge. This area has a bunch of history,  
10 and most of it has been undocumented and not studied.  
11 Baseline biological studies need to be done in order to  
12 monitor negative effects on the vegetation, animal  
13 population, and water bodies. Navarpak, the Yup'ik name  
14 for Lake Iliamna, which means the Big Lake, isn't named  
15 that for nothing. There is so much to be studied. The  
16 whole Bristol Bay watershed is all interconnected: The  
17 groundwater, the surface water, upstream, downstream. You  
18 affect one area and you affect the whole region. Consider  
19 the impacts it would have to communities downstream.

20 I just wanted to say thank you for extending the  
21 extremely embarrassingly short comment period, but more  
22 time in public meetings with a project of this size only  
23 seems fair. Include more Nushagak drainage villages,  
24 Seattle, Portland. This whole thing is widespread and  
25 everyone needs to get their things that they need to say

1 out.

2           There needs to be an extensive elaborate study done  
3 on the unique seal population. It's one of only two in  
4 the whole world. The icebreaker ferry plan could  
5 negatively affect this population. The  
6 underground/underwater natural gas pipeline also has  
7 plenty of negative impacts towards not only the seal  
8 population, but all animals and vegetation in the area.

9           Another aspect that I think needs addressing is acid  
10 mine drainage and how the negative environmental health  
11 effects from it are impacting other towns and areas where  
12 mining like Pebble has occurred. These negative effects  
13 are still happening today, and nothing seems to be done  
14 about it.

15           There have always been environmental disasters caused  
16 by mines all around the world. When will enough be  
17 enough? More than 40 percent of the world's salmon comes  
18 from this area. Keep it wild. Where you see barren and  
19 desolate, I see rich and bountiful. Where you see  
20 undeveloped, I see pristine and beautiful. And I would  
21 like to keep it that way. I don't want my beloved home to  
22 just become another Superfund site where we as residents  
23 would only carry that burden in trying to restore what  
24 would be left, if anything, if this mine were to go  
25 through.

1           Quyana nicurniluci. Thank you for listening.

2                   MR. SHANE MCCOY: Myrtice Evalt.

3                   MS. MYRTICE EVALT: Hi. My name is  
4 Myrtice Evalt. I'm interim executive director for Nunamta  
5 Aulukestai. Nunamta Aulukestai means caretakers of the  
6 land. Nunamta was born in 2006 by the elders of Bristol  
7 Bay. It consists of nine Native corporations, ten tribes  
8 of Bristol Bay. And Nunamta's mission is to protect our  
9 land, water, air that will sustain our way of life for  
10 generations.

11           Pebble has been a concern for over a decade of our  
12 Bristol Bay people. Its concern is Pebble is not  
13 sustainable. It is -- it is not environmentally safe. It  
14 is a major risk to our -- to even to -- Pebble is -- it is  
15 a major risk to even to want to take because of what can  
16 happen, not a what-if. Australia has a large gold mine  
17 and has a history of natural disasters. In 2017 they had  
18 a 4.8 earthquake and damaged underground panels. This was  
19 regularly expected and certified to industrial standards.  
20 In 2018 it had a 2.7 earthquake. And mind you, it was  
21 only 2.7 magnitude. And the tailings of this dam failed.  
22 And it was closed to -- and both were closed for months at  
23 a time.

24           As you can see, Iliamna has a history of earthquakes.  
25 2017 they had a 2.1 magnitude. 4/17 they had a 4.3

1 magnitude. On 4/18 they had a 3.5 magnitude. Australia  
2 only had a 2.7 magnitude, and it destroyed their tailings  
3 dam.

4 This is too big of a risk for Bristol Bay to even --  
5 to even take to endanger our subsistence way of life, our  
6 culture and our sustainability.

7 I'm nervous.

8 So I ask you, the Army Corps of Engineers, examine  
9 the impacts of the earth grade of any size and any  
10 location in southwest Alaska of all the mines,  
11 infrastructure buildings, mine pits, mine tailings dams,  
12 pond facilities and other -- and how impact -- and how the  
13 impacts to those would turn out -- the impacts would in  
14 turn impact and affect the lives of people, animals and  
15 water from what the earthquake would do.

16 Thank you.

17 MR. SHANE MCCOY: Jon Alvarez, is he back  
18 in?

19 UNIDENTIFIED FEMALE SPEAKER: You want me  
20 to go and grab him? Are we done?

21 MR. SHANE MCCOY: Lindsay Layland wanted  
22 to be last. I'm just making sure we have accommodated  
23 everyone. Lindsay Layland. Or do you want to wait a  
24 minute and see if Jon --

25 MS. LINDSAY LAYLAND: No. And I don't



1 actually need to be the last one. I just wanted everyone  
2 else to get the chance to speak first. So if you want to  
3 speak again, come up.

4 My name is Lindsay Layland. I'm from Dillingham.  
5 For those of you who don't know me, I work with United  
6 Tribes of Bristol Bay. Thank you so much for having us  
7 here today to meet with you all.

8 Throughout the short course of the scoping hearings  
9 and the meetings that the Army Corps has been holding  
10 around the Bristol Bay region, I've become increasingly  
11 more and more exposed and aware of the widespread impacts  
12 that the development of this mine would have on the  
13 communities, cultures, environment and the people of  
14 Bristol Bay. It's incredibly alarming and downright scary  
15 to imagine how devastating the construction and the  
16 operation of the proposed Pebble Mine would -- how  
17 devastating it would be on this region.

18 In addition to each and every element and area that  
19 people in this room have outlined before me as critical  
20 pieces to be thoroughly analyzed and considered in  
21 drafting the environmental impact statement, the Army  
22 Corps of Engineers must examine the impacts that any size  
23 of spill or accident, which is inevitable, would have on  
24 the cultural, spiritual, physical and natural environments  
25 of the area.

1           If a diesel spill of 10, 100, or 1,000 gallons were  
2 to spill into the Kuktuli River or a branch of the  
3 surrounding creeks and rivers, what would be the impacts  
4 to water quality, aquatic species, birds and all the  
5 micro-organisms in the region and the people? What if it  
6 were a toxic acid-generating tailings pond that had  
7 breached or spilled? If there were a natural gas spill in  
8 the lake of 10 or 100 or 1,000 gallons, how would the  
9 algae of the lake be impacted, which salmon feed on which,  
10 in turn, sustain the culture and the food supply of the  
11 people of Lake Iliamna? Even the smallest spill around  
12 the mine site, around the lake, and around the Cook Inlet  
13 regions and the Amakdedori Bay must be considered and  
14 studied.

15           How would a ten-gallon spill impact the smallest of  
16 organisms to the largest of organisms? How would a  
17 10,000-gallon spill impact these same groups? If a single  
18 generation of humans, salmon, birds, micro-organisms,  
19 bears, belugas or lake trout are even minimally impacted,  
20 how would that affect future generations? You must  
21 consider population levels, health impacts, mineral  
22 exposure, disease, and all other possible effects to every  
23 single creature in Bristol Bay.

24           If even a single person's life is affected, if even a  
25 single seal is displaced or even one brown bear can't

1 reach and roam the beaches of Amakdedori Bay, you must  
2 examine the ripple effect and cumulative and indirect  
3 impacts that each of those would have now and for the next  
4 1-, 2- and 300 years.

5 One thing that I noticed in the presentation today by  
6 the Pebble Partnership was that they mentioned that the  
7 ferry is designated -- excuse me -- the ferry is "designed  
8 to operate in all weather conditions." This is highly  
9 concerning and I would expect the Army Corps to examine  
10 this further because as our climate continues to change  
11 and as temperatures continue to rise across our planet, we  
12 have begun to see natural disasters that we have never  
13 seen before, including hurricanes, fires and floods. I  
14 think it's really important that we examine the potential  
15 future weather conditions, of which we don't actually  
16 know, and how that ferry could possibly survive the winds  
17 of Lake Iliamna.

18 I have a lot of notes.

19 How will Pebble's power plant that uses Cook Inlet  
20 natural gas affect the resource availability and supply  
21 for the Alaska Railbelt communities? What will impacts of  
22 an earthquake be if they wipe out both of the water  
23 treatment plants that were mentioned in the video?

24 Reclamation and closure. There is a sign over there  
25 that says this plan, Pebble, is designed for closure. I'm

1 curious; what does that mean and how will the natural gas  
2 pipeline be removed if it is, in fact, designed for  
3 closure, and what will those impacts on the waters of Cook  
4 Inlet and people of Bristol Bay?

5 I have a lot more to say, but the people in this room  
6 spoke a lot about the potential impacts this mine could  
7 have, and I think that it's critical that every single  
8 piece that they mentioned is examined thoroughly.

9 Thank you all so much.

10 MR. SHANE MCCOY: Did Jon show up?

11 MR. JON ALVAREZ: If they do this project,  
12 all our fish and animals will be gone. Poison that will  
13 come to them and the diseases, they will be gone and we  
14 will have not much food for us or -- or food.

15 MR. SHANE MCCOY: Thank you. Again, I  
16 would like to thank everybody here today for taking time  
17 out to participate. I would like to thank Igiugig for  
18 having us, inviting us into the community, sharing food  
19 with us.

20 And I would like to remind everybody that the comment  
21 period is still open till the 29th. I understand  
22 oftentimes we have more thoughts and ideas. And as you  
23 come up with additional comments, I encourage you to go to  
24 the project website. If you need the address of the  
25 project website, we have on it on cards. But it's

1 pebbleprojecteis.com. But again, I'd like to thank  
2 everybody on behalf of the United States Army for  
3 participating today. Thank you very much.

4 UNIDENTIFIED MALE SPEAKER: Is this  
5 presentation that you made on behalf of Pebble available  
6 to the public or --

7 MR. SHANE MCCOY: Yes, it is. We will  
8 be -- to be very transparent and to be very proactive in  
9 providing information for everybody, the question was will  
10 the presentation that was presented today be available to  
11 the public. We will be getting it on the public website  
12 as soon as we can. I can't put a date on it, but it will  
13 be --

14 UNIDENTIFIED MALE SPEAKER; On the Corps'  
15 website or on Pebble's?

16 MR. SHANE MCCOY: On the project website,  
17 which is the Corps' website. It's just more specific to  
18 the project. We have a public website, as well, which we  
19 understand you may visit, as well. But the permit  
20 application is available there, as well. And information  
21 about our program is available on the website, as well.

22 Again, thank you very much, everybody, for having us,  
23 and thank you for your participation.

24 (Proceedings adjourned at 5:51 p.m.)

25 REPORTER'S CERTIFICATE

1 I, MARY A. VAVRIK, RMR, Notary Public in and for  
2 the State of Alaska do hereby certify:

3 That the foregoing proceedings were taken before  
4 me at the time and place herein set forth; that the  
5 proceedings were reported stenographically by me and later  
6 transcribed under my direction by computer transcription;  
7 that the foregoing is a true record of the proceedings  
8 taken at that time; and that I am not a party to nor have  
9 I any interest in the outcome of the action herein  
10 contained.

11 IN WITNESS WHEREOF, I have hereunto subscribed  
12 my hand and affixed my seal this \_\_\_\_\_ day of April 2018.

13

14

\_\_\_\_\_  
MARY A. VAVRIK,  
Registered Merit Reporter  
Notary Public for Alaska

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My Commission Expires: November 5, 2020

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