

Issues	Comments	Shell Response	Mitigation Measures
OSR	What kind of technology do you have in case of an oil spill accident?	Shell has 4 different layers of prevention in the event of an accident. The weight of the drilling mud to keep the pressure in the hole, the blow out preventer with redundant sets of rams, capping stack, and Arctic Containment System.	L
OSR	If there was a spill, do you have the equipment to take care of a spill if the multiple barriers don't work?	If we did have a spill and the multiple sets of rams failed on the blowout preventer, we would deploy the capping stack which can seal off the spill or route it to tankers on the surface. If that failed, our Arctic Containment System can lower a dome over the whole thing, which collects the oil and pipes it up to vessels on the surface to be collected.	L
OSR	What about if the oil is already flowing? What technology do you have?	The Nanuq will respond within 60 minutes and will begin immediately collecting oil in skimmers and with boom. The Klamath has more equipment and more booming. Airplanes and helicopters will also identify where tracking booms need to be placed to track the oil. We also have barges with tug support that can be deployed as well.	H
OSR	Would like to see residents of Wainwright trained in oil spill response. It shouldn't be just outside residents. We are closer. The locals need to be trained.	We hold two oil spill response trainings a year in Barrow, Pt. Lay, Pt. Hope and Wainwright through AES. If they can find more than 6 people in the village it will be held in the village. If they can't get 6 people, then people will be brought to Barrow to be trained.	N/A

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OSR	Do you send fliers to the villagers about the oil spill response trainings? An audience member, employed by The Olgoonik Corporation, commented that they can send fliers out to their shareholders about these trainings. It can increase the awareness about the oil spill response trainings.	AES, the organization we contract with for the training, sends the fliers out. We will follow up on this.	N/A
Aviation noise	How often will Shell's airplanes and helicopters fly in and around Wainwright?	Four helicopters will be stationed in Barrow and will be going back and forth to the Burger Site. We don't believe there will be a lot of flights out of Wainwright. If we do, then we use our subsistence advisors to ensure that subsistence activity isn't affected. We may have search and rescue flights flying earlier in the year throughout the area though.	E
Local Hire	I see a lot of people who aren't local. It would be better if there were more people from Wainwright instead of outsiders. It would be good to hire more people from the village.	Thanked audience member for the comment. We use UIC-ARS for a lot of our OSR activities. We do have other lines of business with Olgoonik: the science programs and storage and laydown space. Shell is still at the starting gate of this program. If we succeed and develop our program, we may grow and can have further opportunities for job growth. Shell understands the need to hire local people.	N/A
General Comment	This is the time to voice our concerns. We need to plan ahead to reduce the risk of an oil spill. I've heard an Elder say that once you go out in the water that if it's glassy that the current is so strong, don't go into it – turn around and go back. If you do go into that water way, there's no going back. It happened in Barrow, a group of people couldn't go passed the strong current. They were going	Thanked the audience member for the comment.	N/A

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	full throttle and couldn't move out of place. There are different types of currents that Shell needs to understand. In that 70 miles deep, that's where the strongest current is. This will affect our whales, may be our last time they may have krill.		
OSR	Can you address an oil spill in slush?	Yes, the skimmers can collect oil in ice. It is actually easier to pull up with a brush mop.	N/A
Drill rigs	How many oil rigs are going to be out there drilling? How about in other years?	Only two. We won't add more rigs without telling the community first at meetings like this.	N/A
Collaboration Project with the Local Fire Department	Is Shell going to have your own fire apparatus equipment and help out the local fire department? There was a project in previous years that collaborated with our fire department.	I don't have this answer in regards to the project mentioned but will look into it and let the community member know.	N/A
OSR	It takes 60 minute to start collecting oil?	Within one hour, we are collecting oil. One of the vessels does take 60 minutes to arrive.	H
Training Comment	For all those that want to work, take your training that way we can have more people from Wainwright out there. You just need to look at the job description and commit.	Thanked the audience member for the comment.	N/A

Notes:

*Mitigation Measures are only assigned to applicable comments.

"Not applicable" (N/A) is used to designate comments that do not require mitigation measures as a course of action. See [Mitigation Measures Index](#) definitions according to assigned letter.

Proposed Mitigation Measures

A-Communication Plan for avoiding conflicts with subsistence users.
B-Collaboration and Communication with Whaling Associations
C-Plan of Cooperation (will work to obtain a CAA)
D-Will honor Camden Bay blackout dates for Nuiqsut and Kaktovik whaling.
E-Subsistence Advisors based in Chukchi Sea Villages and Kotzebue
F-Protected Species Observers
G-Robust Marine Mammal Monitoring Protocol

H-OSR support vessels on standby 24/7 near drilling location

I-Real time Ice and Weather Forecasting

J-Crew change by helicopter and collaboration on routes to and from shorebase

K-zero discharge in Camden Bay of the Beaufort Sea: drilling fluids and cuttings after the 26-in casing; gray and treated black waters; bilge and ballast waters

L-enhanced blowout prevention and mitigation measures (i.e., second set of blind shear rams, redundant ROV hot stab panel, prefabricated subsea collection and containment