

# Husky Fire

## Community Listening Session

Held May 14, 2018

6:00 – 8:00 PM, Superior Middle School

Report of Session Comments

Report Release 1, May 23, 2018

*Listening session hosted by:*





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*Prepared by UW-Extension*

## Participant Comments and Questions

### About Participant Comments and Questions

The information in this section includes verbatim recording of participant comments to three structured questions asked in small group discussions, and a fourth “catch all” question for issues that didn’t fit in the first three questions. Responses recorded below were attempted to be typed in a way that fully reflects how the comment was recorded by the participant, including:

- Attempt to punctuate (or lack thereof) as the participant recorded;
- Minimal correction of spelling, unless it was clear what the participant intent was clear;
- In a couple of instances one or more words could not be read, and these are noted in the response;
- Some participant responses were originally recorded under one question, but were either moved to a more appropriate question or it was duplicated to cover two questions; and
- Nothing was omitted.

### Question 1

**Question: What outstanding concerns, ideas, or questions do you have about the environment following the fire on April 26?**

#### Responses

- Economic: Were local food establishments using locally grown food in trouble?
- How did the plume of smoke affect soil and gardening opportunities? For how long? When will data be out? What data is being compiled and by who?
- Concerns for health of livestock, particularly those in the plume (esp. bees, chickens that produce things that are immediately consumed)
- Is there a difference between the evacuation zones and the area actually affected by the fire?
- Should there be precipitation concerns and water quality concerns [i.e., waterways] - just because "they" say its safe, there's no public proof. Just political say - feels untrustworthy. Our horse's water (who was in the way of the plume) after the April 25th rainfall.
- Concern about clarity and evidence available in the soil and gardening handout (+ generally available info)
- Concern: soil contamination. We seem to be getting the "all clear" based on the lack of "visual soot" -> wording in document. This reminds me of what we once thought of radiation - we can't see it or taste it so it can't hurt us! Really? Will we ever learn? I would like my soil tested by a third party.
- Question: There's a rumor that water fowl, especially near the refinery were highly impacted. True? False? Proof?
- Is there any response regarding wildlife, including tracking down effected wildlife and resolving health issues created by the fire?
- If we can't minimize contact with soil, how do we minimize risk of health issues?
- Question emailed about soil health to Husky did not receive an adequate response.

- Questions about beach safety / WI Point and impact on Lake Superior (Newton Creek).
- How is our drinking water effected?
- Lack of data regarding what air conditions were like during the fire in data released to the public.
- What was burning - both in the tanks and what the tanks were made of?
- What was used to extinguish the fire and how does it effect the environment?
- That the only sure thing is that we don't have enough data or science to be certain about the effects today and going forward. We need to make decisions now that don't affect the future generations.
- Asbestos bearing material in tank insulation: what is being done to address this?
- It dissipates into what
- It breaks into what
- Re Mary's comment about conflicting messages. I agree.
- What about the water, the impacts on the bay, rivers / creeks, Lake Superior?
- Will there be extensive follow-up testing of water and soils?
- It seems to me that there should be sensitive enough testing to be able to track something and how it persists or decreases, rather than just say "it's acceptable"
- Conflicting information given so far from various sources.
- How the animals and wild edibles are affected This affects my diet. I.E., leeks, fish, venison turkey use of 1842 ceded Territory harvest rights.
- How the animals and wild edibles are affected This affects my diet. I.E., leeks, fish, venison turkey use of 1842 ceded Territory harvest rights.
- Soil quality and mitigation of contaminants in the evacuation and plume zone not just the city area around the refinery. What test or science can be done.
- What do we do about farm market sales
- Communications
- The responses from WI Health Dept. and MN UMD Prof who studied particular related info. Differs quite a bit. This concerns citizens who wonder which is accurate? Superior / DC Hlth (small) response not concerning MN-UMD Prof. (greater-bigger) very concerning. Mpls, MN concerning (biggest)
- I do not have any concerns about the environment. I am more concerned that good scientific data is used. I suspect that a number of people will choose to ignore the science and choose to blame Husky for all sorts of things in the future.
- Hope to have solid science that can't be doubted.
- Community concerns - address properly and fulsomely
- Ensure the safety of our workers going forward.
- Ensure that our employees and community understand our commitment to them and commitment to listening.
- Ensure we work w/ reg. agencies to protect community.
- Asbestos exposure to citizens south of refinery
- Having read and followed the info. from Dr. B of UMD I question the safety of my lawn (foods and ppl), our H2O source and whether or not I should grow food in our raised bed garden?
- Air quality



- Gardening / soil
- Water contamination
- My childrens long term effects due to exposure of smoke, chemicals
- Animals consuming water & grass
- Concerns safety of all residences, wildlife, land. Continued monitoring of @ past 4-26-18 monthly-yearly
- How much and what kinds of remediation will be needed to clean-up Newton Creek?
- Did any hazardous materials reach the bay or Lake Superior?
- How close did liquid asphalt and other substances come to drink water intakes?
- How much infiltration of liquid runoff went into the water table?
- What is causing current fumes if the refinery is not in operation?
- What effect on pollinators?
- Will rural well water be tested?
- Safe drinking water?
- Are there any reasons to be concerned about pets or kids outside (plume zone)?
- Lake Superior - any contamination?
- Pre-natal concerns as a result?
- How far did any potential runoff travel through groundwater and in what direction?
- What about Nemadji and Amnicon Rivers?
- Are there baselines from when where monitoring by whom
- How long do we need to monitor water and soils?
- Accuracy of safety testing - What are the parameters for choosing what is tested - Who creates list of what is tested
- Will raw data be available for analysis by independent scientists?
- Do the entities responsible for monitoring and mitigating environmental concerns have the money and the authority to get things done.
- What tests exist to identify the possible 100,000 chemicals released by the plume?
- Steve Sternberg made this statement re: 100,000 possible chemicals, is this credible?
- Will an independent agency be given the funding to test for the 100,000 chemicals by Husky. Why or why not?
- Will Husky establish a local cons- education fund to promote environmental stewardship?
- Pre vs prior soil test? Who pays \$
- Garden - is the produce safe - asparagus, rhubarb, blueberries - anything I plant this year
- Wild edibles like blueberries, leeks, mushrooms. Animals - are they safe?
- How long will any gardening be a concern, if it is.
- The safety of food grown - harvested - gathered
- Who's data is accurate?
- Who is responsible "down the road" for any impact?
- How long will agencies continue to monitor soil, water, and ground?
- I am three miles south of refinery and I washed all outside surfaces as per Douglas Cty instructions online. My concerns as I was rinsing are: ground water contamination from this, as well as how it could effect pet and other animals who lie on the ground and eat the grass and bark, etc.

- Does this impact farmers?
- Does this impact farmers?
- How did rain help / support or make worse?
- Who to trust? Where do we get accurate information?
- Non-corporate background air monitoring ongoing
- Who is (unreadable) environmental firms and qualifications?
- Will the spill affect our ground water?
- How are waste products - soil, water, product, salvageable material handled? Solid waste haz waste disposal location
- Air, water and soil testing programs please provide summary of scope of sampling and results.
- Background air monitoring is that still required?
- When will soil be completely free of contaminants
- Cancer and other health rates type in Superior current future reporting precautions to take?
- Will there be a study of cancer rates for (unreadable) this event
- What is the environmental impact of the fire suppression foam?
- Was there discharge to Newton Creek, Superior Bay, Lake Superior?
- Breathing dust - raking grass, raking leaves, vacuuming, tracked into homes. Does dust pose a health problem inside and outside. Also vegetation that was exposed
- Is the refinery site stable? Is it secure and stable from environmental and health perspective
- Drinking H2O source for Superior - Lakeside of Park Point - how susceptible is it to actual contamination. How susceptible is the city and private water supplies to contamination from fire
- Air traveled debris not picked up on N 58th St still on street and in yard. Someone pick up his own
- Again why is husky taking samples from already contaminated creek or is this 20 mile stretch that DNR has been cleaning is wear sample came from
- Water is already contaminated - how can sampling detect problems.
- There is an oil sheen 58th Street ditches
- Is there a place I can have my garden soil tested for contaminants?
- Will Husky deliver new organic soil to my garden?
- What is the best resource to use while collecting environmental data about the fire or smoke?
- What isn't safe to eat or drink (some better than others)
- Collection and containment of waste material in private yards? Have neighborhoods been notified? Personal safety? Impact on pets and pet environment interaction
- Health concerns related air quality (headaches)
- Location to register health concerns / data for the public?
- Air quality - present data
- Is there a map of impact area? It has been talked about but not a clear graphic
- Impact of rain - is it bringing down contaminants?
- Fish safety
- Distance of area of concern?
- Reverse osmosis effective @ filtering out contaminants (or distillation)
- Are they altering rules for water disposal to get rid of the waste water used in the Husky facility.
- What about hay / cow feed? This yr and yrs to come hay land

- What are the safety concerns with soil on the school playgrounds... is it contaminated? Is it safe for kids to be digging in the dirt?
- What education will be done on CML (Chronic myeloid leukemia) CLL (Chronic lymphocytic leukemia) Aplastic Anemia all other cancers
- Organic growers spend years and an intensive work effort to be certified as a grower with organic products. If this event has compromised their product integrity what is the state (since they permit the refinery) and Husky Oil prepared to do?
- Is meat safe... chicken meat / eggs, beef, etc. How do the animals take this (the pollution) up?
- Where do PAHs pose their greatest threat. Kids playing on lawn? Just living in the fallout area? Gardening? Ingestion? Breathing? Skin exposure? Contaminating foods?
- My biggest concern is related to the impact on the soil. Info offered by the county and other organizations seems simplistic. There is information from other professionals that we should be more concerned.
- I have compiled a list of academic papers that show that plants do take up PAHs, yet the "official" info says that it isn't common...
- Is there atmospheric data on exactly where the "plume" went?
- Who pays for testing?
- All if these guys are still "suited" up should my 30 family members in a 2 mile radius still be evacuated?
- What about animals (farm)? More info on website about farm animals, hay land.
- I want more comprehensive scientific data and look at previous research in similar accidents. Health related. Environmental. Regulations.
- I would like to see comprehensive health profile study done on employees and nearby residents - both current and past for exposure related health issues.

## Question 2

**Question: What outstanding concerns, ideas, or questions do you have about Husky Energy following the fire on April 26?**

### Responses

- I want to know about the HF tank and what could have happened had it been compromised.
- I want to know how Husky will compensate the "neighbors" for their loss in property value. I would never buy a house near the refinery after what just happened.
- Is there a financial / corporate relationship between Husky and Calumet?
- Why didn't they have automatic foam systems if "they're prepared for these emergencies?"
- How much damage occurred and what was the cost? Who pays for this?
- Has all alternative options been explored in conversion from Hydrofluoric Fluoride \$ Cost, Value, Community Safety.
- Why did Husky not disclose the risk of HF fire during the evacuation?
- Who regulates Husky?
- The refinery has been profiting for decades. We should not now socialize the expense for any clean up. There should be zero costs to citizens.

- Will this be a Superfund site years from now??
- What are the preventative measures Husky will now take? Fires and explosions.
- Are there any legal requirements for Husky moving forward to assist with clean-up, research funding, etc.?
- What ramifications / consequences will there be to ensure this pattern of accidents doesn't continue?
- What exactly happened? No word on how or why there was an explosion. -Feels like something is missing.
- Why isn't Husky investing in cleaner and more sustainable energy? If they already are, how is this occurring?
- Why did Husky require employees injured by the blast to sign non-disclosure forms in order to be reimbursed?
- Is CAP available to the public?
- Will Husky continue operations?
- Any idea of the causes of the explosion?
- Is it time they're having people sign waivers of some sort?
- What kind of financial shape is Husky in? (concerned about bankruptcy).
- Switch from Hydrogen Fluoride process - can they?
- Need for web page that would combine data from different sources.
- How will Husky Energy change its refinery processes going forward?
- How will Husky Energy change its safety processes?
- How can we trust that a company with primary shareholders located in Canada and Hong Kong is considering the best interests of our - community?
- Aging and fire and heat damaged infrastructure. Will they upgrade when rebuilding?
- Will they do what it takes to no longer use Hydrogen Fluoride in the production of asphalt?
- Are they willing to compensate for more than evacuation and medical exp.
- Are they going to fund ongoing testing by and independent source
- Will Husky look at a fund going forward for (unforeseen or unknown effects at this time) environmental damage loss of cultural exercise of rights and use. (possible funds for education and youth going forward)
- How to ensure a major incident at Husky doesn't affect LNG storage.
- Considering this is not the first disaster at a Husky facility and not the first disaster at this refinery this will likely not be the last. What will Husky and Superior do to protect the environment - lake, watershed, and soil, from future disasters.
- What compensation for other than evacuation or immediate health events.
- How much time before Husky changes its method to the safe acid alternative?
- H2SO4 carries it's own risk (increased transportation) I have experience in HF work and would hate to see a hasty decision.
- What did they learn that was handled -correctly -wrong. Communication to officials -residences -community. Lessons that were learned for the future.
- As a community are we okay with allowing Husky to continue business w/out making the change? Is Husky continuing as usual?
- Transparency

- How do you make it safer.
- How long before Husky has the refinery fully operational again?
- Impacts on employment both short term and long term
- Does Husky plan to convert from HF to H<sub>2</sub>SO<sub>4</sub> acid catalyst?
- Understand thoroughly what happened.
- Does Husky's terrible safety record at its other facilities trigger any special monitoring by regulators?
- If climate change is almost 100% believed, when will this refinery be shut down?
- If we are nearing the end of the fossil fuel era does that mean refineries will stop investing in the cleanest safest technology?
- Are there funds set aside for employees?
- How long will Husky reimburse people? For what?
- Who has the power to get Hydrogen Fluoride out ASAP?
- Will Husky give me money to work on (my co) - remediation for our soil?
- Will Husky install public air monitoring devices (like California) for the public
- If primary shareholders of Husky are out of Hong Kong - how can we ensure they care about us here?
- Will Husky set up veterinary funding for long-term health impacts for animals (Pets)
- Will Husky make turn-around schedules public?
- Will Husky pay for requested Hazmat team?
- What happened?
- Would be good to hear from a union rep at Husky
- Have employees been tested for health related issues? Ongoing?
- Does the liability waiver release Husky from long term health impacts?
- Does the public have access to information from Husky that can prove or disprove claims made now or in the future?
- How far into the future will Husky take response. For harm to people or env.
- Is Husky required to have a fund \$ set aside for env. Damages?
- Will Husky benefit financially from Enbridge's proposed Line 3 expansion, which endangers wild rice in treaty-ceded territory?
- Will Husky work with the DNR to release field data for indep. Analysis?
- Does the public have access to information about what other substances Husky is storing on site.
- What role (power) will community advisory board have WRT future operation? Periodic updates to them?
- Can Husky and the public agree upon an impartial third party verifier?
- Was this just an accident or was someone negligent
- Will they still be in business 1-2-4 yrs from now in Superior?
- Can an occurrence like this be prevented in the future?
- Please explain the turnover process: what happens to the refinery during a turnover?
- What will Husky do to ensure that nothing at the refinery is dangerous to the local people and area?

- Will Husky ensure that they are using non-toxic or damaging chemicals / components, and keep up-to-date with equipment and processes?
- Will Husky make available assistance years down the road if health, environmental issues crop up and how?
- Concerned with overstated mis-information as to the true danger of HF releases vs. what could have actually happened @ Husky Superior. Provide relevant facts.
- We'd like to have the tank with the Hydrogen Fluoride removed from our community.
- How will the public be notified of Husky's plans for the refinery?
- Process of Hydro/Fluoride - move to remove from community
- Liability to homeowners for land contamination
- Accountability to community for health concerns
- What warning systems are in place and or will be put in place to warn the public when a danger is present or an emergency is taking place?
- How many other Husky facilities experienced similar fire? What was done to prevent similar event in Superior?
- Will the report on the cause of the fire be made public?
- Was the lack of injuries luck or good planning?
- Actions to avoid future incident?
- Hydrogen Fluoride - how serious are they considering changing?
- Is it true that if HF had blown up would it have wiped out the town?
- When will refinery reopen? How will it look?
- Business Resource / Reference? (Business to Business)
- Communication from company ongoing does this need to improve / change? As well as in emergency? Transparent. Timely.
- Access to ongoing data collection
- Assurance that most up to date technology is used to minimize pollution and guarantee safety of all.
- Thank you Husky! We'll all get through this together, you have been a good neighbor.
- Will the community know the cause of the fire?
- Thank you to Husky for spending \$ in Superior during follow-up (not Duluth). :)
- What regulatory agency has the most / final authority to insure the public's safety with regards to Husky Energy's operations?
- Who pays for losses resulting from (contamination) this? If I can't eat my chicken eggs?
- Who will pay for animal loss? Vet bill testing animals?
- Who is responsible for making sure that Husky is actually being a "good neighbor" and not trying to duck responsibility? Or make things seem like they aren't as bad...
- Let us assume that this will happen again. Therefore Husky can be proactive and reduce their threat to our community by changing their cracking process away from Hydrogen Fluoride to a less risky process like a solid acid catalyst system or even better an ionic liquid process. Will they do it? Will Wis. help them do it?
- How do the chemicals get to the facility? What about HF?
- How long will it take to find out what cause the accident? (Timeline)
- Do more of these meetings like this. More meeting not all on website.

### Question 3

**Question: What outstanding concerns, ideas, or questions do you have about emergency services and government response to the Husky Energy fire on April 26?**

#### Responses

- How can Superior establish a fossil fuel tax for businesses that participate in the processing and refining of fossil fuels. Would Superior use this money to develop more renewable energy infrastructure?
- Besides asking for Husky to stop using Hydrogen Fluoride, how can Superior stop the use of this hazardous chemical in the community?
- There are five schools within two miles of the refinery. Our children are on the front line for these disasters. What is the city doing to protect these schools during these disasters, and going forward, especially considering the known increased rates of cancer and respiratory illness for those living near refineries?
- Will Superior establish a citizen's review board for the refinery which monitors refinery emissions and is made aware of the turnaround schedule? (Turnaround days are some of the riskiest days for the community)
- Was there ever a question as to who was in charge at the EOC during the fire event?
- Evacuation drills / awareness - there wasn't much before.
- Concerns about process, accurate info - competence? Are the entities involved in disaster response, testing, etc. going to be better coordinated in the future?
- As a gainfully employed member of the community with a master's degree, I love this community, but am considering leaving because I do not want to risk my life or my family's life in the event of future refinery disasters. What is Superior doing to keep people here and keep them safe?
- Not very well coordinated or put together.
- Poor communications could be improved
- Not well developed from a disaster standpoint.
- Need to have up to the minute info on what and how much volatile materials is on site and exactly how much and what suppressant is available.
- Should not be waiting for a refinery fire team to travel from Texas while fire burns.
- If we have this refinery we should have a team or Husky should be available here.
- Citizens review board to monitor refinery and track environmental and emergency response.
- Thorough emergency / evac plans. Proper communication and execution of one at plant and in community
- Thorough emergency / evac plans. Proper communication and execution of one at plant and in community
- Why wasn't there an alarm like tornados?
- Why does Emergency Management consider this disaster over?
- Who is held responsible for inaccurate news? (DNT, WDIO...) Who said fatalities?
- Why doesn't our city educate citizens on long-term emissions impacts?
- Can Em. Mgt. community provide story map? FAQ? Report how Em Mgt Works?

- Who didn't evacuate and why?
- How would a larger, Twin Ports-wide evacuation be organized if less fortunate environmental conditions created the need for one? Where would people go? How?
- Can the city or county join with other like municipalities with refineries, etc?
- If Jim Paine is opening this meeting saying he's not responsible why is he saying everything is safe - knowing there is no data.
- What is the tax burden for Hazmat? Distribution of tax burden?
- Does Superior have a code or set of standards for large companies, in order to do business here? (i.e., "good neighbor" policy)
- Trust / believability, "historical wounds" trauma + what can city / government do to repair trust?
- Can we craft a community good neighbor policy w/ industry?
- Rush to give all clear - why? (Evacuation)
- Does the state have a requirement to provide the basic infrastructure components to keep mo. And rural w/ safe, competitive, and sustainable.
- I was concerned I would not be able to get back to my home in South Superior to get my dog and belongings as I was heading out of town and had to guess. Fortunately I was able to. Hopefully this will always be the case. \*What criteria is used to decide who and when can enter an evacuated area?
- Dep. Sharif came by at 5:30 PM Why so late into it-
- Lack of information on the radio.
- Emergency broadcast system?
- Concern about kids at AMSoil and people went to Duluth to get their kids poorly communicated -> inaccurate information
- Why was there an end time given for the evacuation if they could not concretely confirm the fire would be out and not restart?
- Why was there not a widespread, varied notices via text, robocalls, etc to assist with evacuation? We would like a centralized alert system that alerts everyone simultaneously of the danger?
- Communication with parents from school was not clear when / if it was safe (esp. for nearby schools) to the refinery
- I appreciate the fire dept.!!! Also -> Janet Bewley Tammy Baldwin!! Thank you for coming to Superior. Sean Duffy "tweeted concerns" before tweeting about the NFL draft. He did not seem tuned in to what was happening here.
- What sort of transportation is provided for low income residents to evacuate?
- Concerns about the locations of mustering points - some were within or near evacuation zone, or closer to the refinery (4 Corners, Mariner Mall)
- Why was the Mariner Mall a mustering point when it was within the evacuation zone?
- Evacuation Plan: Why were people evacuated to 4C School - south of town. 4C school is on the north side of County Road B when everyone north of B was supposed to evac. Also, why send people south in the direction of the plume?
- Why wasn't UWS evacuated sooner, if that area was evacuated?
- Communication with school -> community. Evacuation procedures; how to communicate with parents / community; what forms of communication are used.



- Communication with responders / services and community (what forms are used?)
- Is it possible to get a list of all those who helped? (employees, responders, donations, support services)
- Appreciate Duluth/Superior mayors together.
- Evacuation timelines was confused.
- How is correct / appropriate information disseminated?
- How is information labeled to be from "trustworthy" sources?
- Concern for health of responders
- What would the county / state / city change in future response (fire) at refinery?
- City evacuation planning. Warnings What venue for notification? Is there a more effective way to provide info to public? TV-OK. What else is available?
- It was good to hear our mayor speak to reassure the community but I did not feel that we were told the whole truth and that the situation was really minimized. Hydrogen Fluoride not brought up until very late in the process.
- What local expertise training was missing.
- What lessons have been learned about emergency response efforts and resources?
- School response! School close to Husky let kids go sooner.
- Since the state permits the operations of the refinery and since the state provides incentives to industry - think FoxConn. Will the state provide incentives for Husky to change their cracking process away from Hydro Floric acid to a process more environmentally friendly and much safer for our community?

#### Question 4

**Question: Do you have any other concerns, ideas, or questions about this incident that you haven't had a chance to share yet?**

#### Responses

- How can people learn about what is going on with petroleum industries locally?
- What is Husky and Enbridge transparency policies, and how will local government serve the people by making sure they (Husky / Enbridge) are transparent always... not just during "special events"?
- I would like detailed explanation of how all of the industry near Husky fit together.
- Will this impact summer tourism?
- Many question's many concern's I'll leave the ideas up to those willing to share there knowledge
- Do more of these meetings like this. More meeting not all on website.

# Consolidated Questions Based on Grouping of Responses and Questions

## Question 1

**Question: What outstanding concerns, ideas, or questions do you have about the environment following the fire on April 26?**

### Accuracy of Information

- There is conflicting information being presented to the community, for example – a soils and gardening fact sheet, which was prepared by Wisconsin Department of Public Health. This document provides direction for safely gardening and consuming vegetables, however, others like Dr. Sternberg a professor at University of Minnesota Duluth (UMD) are providing contradictory information. How does the community balance this conflicting information and advice?
- Some have claimed there are up to 100,000 chemicals that could have been included in the fire plume, how do we know what was present in the plume?
- How can the public assess the efficacy of environmental testing, and trust the accuracy of data being presented?
- There is conflicting information as to polycyclic aromatic hydrocarbons (PAH), are they absorbed by plants or not?

### *Participant questions related*

- Concern about clarity and evidence available in the soil and gardening handout (+ generally available info)
- Concern: soil contamination. We seem to be getting the "all clear" based on the lack of "visual soot" -> wording in document. This reminds me of what we once thought of radiation - we can't see it or taste it so it can't hurt us! Really? Will we ever learn? I would like my soil tested by a third party.
- That the only sure thing is that we don't have enough data or science to be certain about the effects today and going forward. We need to make decisions now that don't affect the future generations.
- Re Mary's comment about conflicting messages. I agree.
- Conflicting information given so far from various sources.
- The responses from WI Health Dept. and MN UMD Prof who studied particular related info. Differs quite a bit. This concerns citizens who wonder which is accurate? Superior / DC Hlth (small) response not concerning MN-UMD Prof. (greater-bigger) very concerning. Mpls, MN concerning (biggest)
- I do not have any concerns about the environment. I am more concerned that good scientific data is used. I suspect that a number of people will choose to ignore the science and choose to blame Husky for all sorts of things in the future.
- Hope to have solid science that can't be doubted.
- Community concerns - address properly and fulsomely
- Ensure that our employees and community understand our commitment to them and commitment to listening.

- Ensure we work w/ reg. agencies to protect community.
- Having read and followed the info. from Dr. B of UMD I question the safety of my lawn (foods and ppl), our H2O source and whether or not I should grow food in our raised bed garden?
- Steve Sternberg made this statement re: 100,000 possible chemicals, is this credible?
- Who's data is accurate?
- Who to trust? Where do we get accurate information?
- My biggest concern is related to the impact on the soil. Info offered by the county and other organizations seems simplistic. There is information from other professionals that we should be more concerned.
- I have compiled a list of academic papers that show that plants do take up PAHs, yet the "official" info says that it isn't common...

### Air Quality

- What were the air conditions during the fire, and after?
- Is air quality monitoring continuing? For how long will it continue?
- Will the air quality data be made available to the public and/or independent scientists for review?

#### *Participant questions related*

- Lack of data regarding what air conditions were like during the fire in data released to the public.
- Air quality
- Background air monitoring is that still required?
- Air quality - present data

### Asbestos and Refinery Materials

- What materials burned in the fire, and what materials were included in projectiles that may have left refinery property? What public health risks do they pose?
- Specifically, what public health risks exist from potential exposure to asbestos?
- How are these materials being collected, and how are they being disposed?

#### *Participant questions related*

- What was burning - both in the tanks and what the tanks were made of?
- Asbestos bearing material in tank insulation: what is being done to address this?
- Asbestos exposure to citizens south of refinery
- How are waste products - soil, water, product, salvageable material handled? Solid waste haz waste disposal location

### Beaches and Recreation

- Are the beaches safe to use? Should any precautions be used when accessing and using?
- Are playgrounds, sandboxes, and other play areas and recreation areas safe from contaminants?

#### *Participant questions related*

- Questions about beach safety / WI Point and impact on Lake Superior (Newton Creek).
- What is the safety concerns with soil on the school playgrounds... is it contaminated? Is it safe for kids to be digging in the dirt?

## Data

- Will data being collected be available to the public and independent scientists and experts for analysis?
- How do we get accurate data?
- Will data be compared to similar incidents, or will data from similar incidents be evaluated to understand this incident?

### *Participant questions related*

- Will raw data be available for analysis by independent scientists?
- What is the best resource to use while collecting environmental data about the fire or smoke?
- I want more comprehensive scientific data and look at previous research in similar accidents. Health related. Environmental. Regulations.

## Exposure

- How do we minimize health risks from soil exposure – gardening, play, yard work, etc?
- What are the potential long-term health impacts from exposure to the plume?
- What are the potential health impacts from exposure to fumes and the air in the community? Some citizens report some immediate health issues, like headaches.
- Is it safe to perform yard work?
- What is the proper way to collect and dispose materials on private property from the refinery that may have been deposited by the explosion?
- Is a comprehensive health study of refinery employees and nearby residents possible, current and past? Will any research be done related to potential cancer clusters?
- What risks do polycyclic aromatic hydrocarbons (PAH) present based on soil exposure, gardening, ingesting foods (animal proteins, fruit, vegetables)?

### *Participant questions related*

- If we can't minimize contact with soil, how do we minimize risk of health issues?
- My childrens long term effects due to exposure of smoke, chemicals
- Are there any reasons to be concerned about pets or kids outside (plume zone)?
- Pre-natal concerns as a result?
- Cancer and other health rates type in Superior current future reporting precautions to take?
- Will there be a study of cancer rates for (unreadable) this event
- Breathing dust - raking grass, raking leaves, vacuuming, tracked into homes. Does dust pose a health problem inside and outside. Also vegetation that was exposed
- Collection and containment of waste material in private yards? Have neighborhoods been notified? Personal safety? Impact on pets and pet environment interaction
- Health concerns related air quality (headaches)
- Location to register health concerns / data for the public?
- What education will be done on CML (Chronic myeloid leukemia) CLL (Chronic lymphocytic leukemia) Aplastic Anemia all other cancers
- Where to PAHs pose their greatest threat. Kids playing on lawn? Just living in the fallout area? Gardening? Ingestion? Breathing? Skin exposure? Contaminating foods?
- All if these guys are still "suited" up should my 30 family members in a 2 mile radius still be evacuated?

- I would like to see comprehensive health profile study done on employees and nearby residents - both current and past for exposure related health issues.

### Farm Animals

- Are animals that are being raised in or near the plume safe to eat? What about animal products like eggs and milk?
- Is it safe for animals to forage hay and other growth in areas that were impacted by the plume?
- How can we get more information about the impacts on farm animals on the website or other sources?
- Are there any other impacts on farmers that should be considered?

#### *Participant questions related*

- Concerns for health of livestock, particularly those in the plume (esp. bees, chickens that produce things that are immediately consumed)
- Animals consuming water & grass
- Does this impact farmers?
- What about hay / cow feed? This yr and yrs to come hay land
- What about animals (farm)? More info on website about farm animals, hay land.

### Fire Fighting

- What is in the firefighting foam that was used, and does it present environmental concerns now or in the future?

#### *Participant questions related*

- What was used to extinguish the fire and how does it affect the environment?
- What is the environmental impact of the fire suppression foam?

### Foods – Gardening and Wild Forage

- Our local farmers markets sell locally grown produce, vegetables, plants, and meats. Should sellers of consumers be concerned about these items?
- Many local residents forage wild foods, some do so to honor rich cultural traditions – are wild animals, and wild foraged plants safe?
- Is it safe to garden in or out of the plume zone? What precautions should be taken? For how long?
- Is there an effect on pollinators / bee population from this event?
- What impact from plume fallout will organic farmers experience? Could an organic farmer lose that certification from this event?

#### *Participant questions related*

- Economic: Were local food establishments using locally grown food in trouble?
- How the animals and wild edibles are affected This affects my diet. I.E., leeks, fish, venison turkey use of 1842 ceded Territory harvest rights.
- What do we do about farm market sales
- What effect on pollinators?
- Garden - is the produce safe - asparagus, rhubarb, blueberries - anything I plant this year
- Wild edibles like blueberries, leeks, mushrooms. Animals - are they safe?

- How long will any gardening be a concern, if it is.
- The safety of food grown - harvested - gathered
- Does this impact farmers?
- Will Husky deliver new organic soil to my garden?
- What isn't safe to eat or drink (some better than others)
- Organic growers spend years and an intensive work effort to be certified as a grower with organic products. If this event has compromised their product integrity what is the state (since they permit the refinery) and Husky Oil prepared to do?
- Is meat safe... chicken meat / eggs, beet, etc. How do the animals take this (the pollution) up?

## Plume

- Were there variances in the plume and the evacuation zones?
- Is there a map with the actual plume, and where it traveled? Is there information on how the plume dissipated? What is the specific plume area of concern?

### *Participant questions related*

- Is there a difference between the evacuation zones and the area actually affected by the fire?
- Is there a map of impact area? It has been talked about but not a clear graphic
- Distance of area of concern?
- Is there atmospheric data on exactly where the "plume" went?

## Safety

- How is Husky Energy ensuring the safety of workers and contractors moving forward?

### *Participant questions related*

- Ensure the safety of our workers going forward.

## Soil

- What is the effect of the plume on gardening and agriculture? What geographic areas should be concerned?
- What risks are there for soil contamination, and what is the best way to remediate?
- Should soil be tested, for what, and who pays? Is there baseline data available for this area?
- How long will it take for potential contaminants like polycyclic aromatic hydrocarbons (PAH) to degrade in soils?
- Where do I go for accurate information about soils? My answer from Husky Energy was incomplete.

### *Participant questions related*

- How did the plume of smoke affect soil and gardening opportunities? For how long? When will data be out? What data is being compiled and by who?
- Question emailed about soil health to Husky did not receive an adequate response.
- Soil quality and mitigation of contaminants in the evacuation and plume zone not just the city area around the refinery. What test or science can be done.
- Gardening / soil
- Pre vs prior soil test? Who pays \$
- When will soil be completely free of contaminants

- Is there a place I can have my garden soil tested for contaminants?

### Testing and Monitoring

- Who is testing soils, air, and water? For how long will testing continue? Where are results being reported? How do citizens and interested parties find out about these results?
- What environmental safety concerns are there for humans, wildlife, and land into the foreseeable future?
- What are the tests testing for? Some have claimed that the plume could contain up to 100,000 chemicals, is it possible to test for all of these? What isn't being tested for?
- What are the qualifications of firms or agencies performing testing and analyzing test data?
- Are there third party independent organizations doing any testing?
- Is there baseline data to compare current testing and monitoring data to pre-event data?

### *Participant questions related*

- Will there be extensive follow-up testing of water and soils?
- It seems to me that there should be sensitive enough testing to be able to track something and how it persists or decreases, rather than just say "it's acceptable"
- Concerns safety of all residences, wildlife, land. Continued monitoring of @ past 4-26-18 monthly-yearly
- Are there baselines from when where monitoring by whom
- How long do we need to monitor water and soils?
- Accuracy of safety testing - What are the parameters for choosing what is tested - Who creates list of what is tested
- Do the entities responsible for monitoring and mitigating environmental concerns have the money and the authority to get things done.
- What tests exist to identify the possible 100,000 chemicals released by the plume?
- Will an independent agency be given the funding to test for the 100,000 chemicals by Husky. Why or why not?
- How long will agencies continue to monitor soil, water, and ground?
- Non-corporate background air monitoring ongoing
- Who is (unreadable) environmental firms and qualifications?
- Air, water and soil testing programs please provide summary of scope of sampling and results.
- Who pays for testing?

### Water Quality – Drinking Water

- How has our water quality been affected? What are water quality tests testing for? When and how often are these tests done?
- What is being done about ground water and rural water supplied to ensure the quality and safety of these supplies?
- How effective are water filtration processes (e.g., reverse osmosis, distillation) for polycyclic aromatic hydrocarbons (PAH) and other potential contaminants from this event?

### *Participant questions related*

- How is our drinking water effected?
- Water contamination

- Will rural well water be tested?
- Safe drinking water?
- Drinking H2O source for Superior - Lakeside of Park Point - how susceptible is it to actual contamination. How susceptible is the city and private water supplies to contamination from fire
- Reverse osmosis effective @ filtering out contaminants (or distillation)

### Water Quality – Other

- Newton Creek specifically had booms deployed, what contamination has occurred there? Has this spread throughout the watershed?
- What has been the impact of this event on Lake Superior, inland lakes, and rivers and streams?
- What concerns should the public have about rain and the impact on ground water immediately after the fire, especially in plume areas?
- Could rain or other water contaminants impact humans, domestic animals, livestock, or wild animals?
- Explain the permit modification process for the Husky Energy waste water treatment plant?

### *Participant questions related*

- Should there be precipitation concerns and water quality concerns [i.e., waterways] - just because "they" say its safe, there's no public proof. Just political say - feels untrustworthy. Our horse's water (who was in the way of the plume) after the April 25th rainfall.
- What about the water, the impacts on the bay, rivers / creeks, Lake Superior?
- How much and what kinds of remediation will be needed to clean-up Newton Creek?
- Did any hazardous materials reach the bay or Lake Superior?
- How close did liquid asphalt and other substances come to drink water intakes?
- How much infiltration of liquid runoff went into the water table?
- Lake Superior - any contamination?
- How far did any potential runoff travel through groundwater and in what direction?
- What about Nemadji and Amnicon Rivers?
- I am three miles south of refinery and I washed all outside surfaces as per Douglas Cty instructions online. My concerns as I was rinsing are: ground water contamination from this, as well as how it could effect pet and other animals who lie on the ground and eat the grass and bark, etc.
- How did rain help / support or make worse?
- Will the spill affect our ground water?
- Was there discharge to Newton Creek, Superior Bay, Lake Superior?
- Again why is husky taking samples from already contaminated creek or is this 20 mile stretch that DNR has been cleaning is wear sample came from
- Water is already contaminated - how can sampling detect problems.
- Impact of rain - is it bringing down contaminants?
- Are they altering rules for water disposal to get rid of the waste water used in the Husky facility.

### Wildlife

- What wildlife were on and immediately near the refinery? Were they evacuated? Are there any health concerns for these animals?
- What health and safety issues exist for wildlife and fish, particularly for human consumption?



### *Participant questions related*

- Question: There's a rumor that water fowl, especially near the refinery were highly impacted. True? False? Proof?
- Is there any response regarding wildlife, including tracking down effected wildlife and resolving health issues created by the fire?
- How the animals and wild edibles are affected This affects my diet. I.E., leeks, fish, venison turkey use of 1842 ceded Territory harvest rights.
- Fish safety

### **Other Issues**

- What do polycyclic aromatic hydrocarbons (PAH) and other plume content dissipate into? If polycyclic aromatic hydrocarbons (PAH) and other plume content breaks down, into what?
- Some residents report odor or fumes from the refinery now, if the fire is out and refinery in shut-down mode, what is the source?
- If there are social or environmental impacts in the future, who is responsible?
- There is some contamination in the city, oil sheen and debris – how do residents report this for remediation or collection?

### *Participant questions related*

- It dissipates into what
- It breaks into what
- What is causing current fumes if the refinery is not in operation?
- Will Husky establish a local cons- education fund to promote environmental stewardship?
- Who is responsible "down the road" for any impact?
- Is the refinery site stable? Is it secure and stable from environmental and health perspective
- Air traveled debris not picked up on N 58th St still on street and in yard. Someone pick up his own
- There is an oil sheen 58th Street ditches

## Question 2

**Question: What outstanding concerns, ideas, or questions do you have about Husky Energy following the fire on April 26?**

### Accountability

- What are the costs from this event? Who pays these costs?
- Does the refinery expect the State of Wisconsin or other public entity to help with rebuilding costs?
- What legal and regulatory responsibilities does Husky have for potential environmental damage or other long-lasting community impacts?
- Being a publicly traded company, based in Canada – what assurances does the “community” have that business decisions will also be balanced with what is good for Superior and the surrounding area?
- Who is verifying the accuracy of monitoring data, and the efficacy of any monitoring programs?
- Will data from monitoring be made available to independent researchers and scientists for analysis?
- Have employees or contractors been asked to sign a non-disclosure agreement related to this event or events that led to this event?

### *Participant questions related*

- How much damage occurred and what was the cost? Who pays for this?
- The refinery has been profiting for decades. We should not now socialize the expense for any clean up. There should be zero costs to citizens.
- Are there any legal requirements for Husky moving forward to assist with clean-up, research funding, etc.?
- How can we trust that a company with primary shareholders located in Canada and Hong Kong is considering the best interests of our - community?
- Are they going to fund ongoing testing by and independent source
- Does the public have access to information from Husky that can prove or disprove claims made now or in the future?
- Can Husky and the public agree upon an impartial third party verifier?
- Accountability to community for health concerns
- Why did Husky require employees injured by the blast to sign non-disclosure forms in order to be reimbursed?

### Communication

- Many are concerned that the county website is not an adequate means to disseminate information to the public, and social media like Facebook also has inherent problems? Can a better repository be developed for the public and others to retrieve updates and information about this event?
- What lessons about communication were learned, for example: within Husky Energy, between Husky Energy and community, between Husky Energy and government, and between Husky Energy and emergency services?

- What assurances does the community have about Husky Energy commitment to transparency?
- What opportunities exist in the future to bring citizens and stakeholders together for similar discussions and updates?

#### *Participant questions related*

- Need for web page that would combine data from different sources.
- What did they learn that was handled -correctly -wrong. Communication to officials -residences -community. Lessons that were learned for the future.
- Transparency
- Communication from company ongoing does this need to improve / change? As well as in emergency? Transparent. Timely.
- Do more of these meetings like this. More meeting not all on website.

#### **Compensation - Now**

- Is testing related to health of livestock and agricultural lands an eligible expense for reimbursement from Husky Energy?
- Why are liability waivers being asked to be signed for some expenses, what limitations to future claims, especially health do these waivers limit?
- If a farmer or urban farmer has experienced a loss of orders or other financial loss directly related to this event, is this an eligible expense Husky Energy would consider reimbursing?

#### *Participant questions related*

- Is it time they're having people sign waivers of some sort?
- Are they willing to compensate for more than evacuation and medical exp.
- What compensation for other than evacuation or immediate health events.
- Will Husky give me money to work on (my co) - remediation for our soil?
- Does the liability waiver release Husky from long term health impacts?
- Who pays for losses resulting from (contamination) this? If I can't eat my chicken eggs?
- Who will pay for animal loss? Vet bill testing animals?

#### **Compensation - Future**

- Does Husky Energy have any compensation processes for losses that citizens and businesses may experience that were directly related to this fire event, but those losses are not apparent until some future date (e.g., livestock loss, human health issues, lower real estate values, currently unidentified contamination)?
- How long will Husky Energy continue to reimburse eligible expenses the community has experienced?
- Is there a requirement or consideration for Husky Energy to set aside reserve funds to cover potential future liabilities related to this event?

#### *Participant questions related*

- I want to know how Husky will compensate the "neighbors" for their loss in property value. I would never buy a house near the refinery after what just happened.
- Will Husky look at a fund going forward for (unforeseen or unknown effects at this time) environmental damage loss of cultural exercise of rights and use. (possible funds for education and youth going forward)

- Are there funds set aside for employees?
- How long will Husky reimburse people? For what?
- Will Husky set up veterinary funding for long-term health impacts for animals (Pets)
- How far into the future will Husky take response. For harm to people or env.
- Is Husky required to have a fund \$ set aside for env. Damages?
- Will Husky make available assistance years down the road if health, environmental issues crop up and how?
- Liability to homeowners for land contamination

### Emergency Events

- What is the role of Husky Energy in hazardous materials handling in response to events like this?
- How does Husky Energy work with local municipalities in terms of special equipment and training for hazardous materials training in emergencies?
- Who bears the cost for this specialized training and equipment?
- Have other Husky Energy facilities experienced similar events, what lessons were learned from those events, and how were those lessons applied to the Superior refinery?

#### *Participant questions related*

- Why didn't they have automatic foam systems if "they're prepared for these emergencies?"
- What are the preventative measures Husky will now take? Fires and explosions.
- Will Husky pay for requested Hazmat team?
- What warning systems are in place and or will be put in place to warn the public when a danger is present or an emergency is taking place?
- How many other Husky facilities experienced similar fire? What was done to prevent similar event in Superior?

### Employee Health

- Have employees been tested for health-related issues? What are plans for future testing?

#### *Participant questions related*

- Have employees been tested for health related issues? Ongoing?

### April 26<sup>th</sup> Fire

- Please explain the investigation process to determine the root cause of this event? Is there a timeline? When will a report or statement be issued to the public? Is there a public hearing or regulatory review of this investigation?
- Will the final report be able to determine if this was an accident or negligence?

#### *Participant questions related*

- What exactly happened? No word on how or why there was an explosion. -Feels like something is missing.
- Any idea of the causes of the explosion?
- Understand thoroughly what happened.
- What happened?
- Was this just an accident or was someone negligent
- Will the report on the cause of the fire be made public?

- Was the lack of injuries luck or good planning?
- Will the community know the cause of the fire?
- How long will it take to find out what cause the accident? (Timeline)

### Transportation Logistics

- How do the chemicals get to the facility? What about hydrogen fluoride (HF)?

#### *Participant questions related*

- How do the chemicals get to the facility? What about HF?

### Husky Energy Organization

- Is there a continuing financial relationship between Husky Energy and Calumet?
- Is Husky Energy investing in renewable, sustainable, or new energy technologies? If yes, can you give information about where and what you are doing?
- The community is concerned about “bankruptcy,” is Husky Energy in sound financial condition and able to absorb facility and related costs from this event?
- What is the Husky Energy commitment to the Superior Refinery facility now and into the foreseeable future?
- Will Husky Energy benefit financially from the Enbridge proposed Line 3 project?
- What is the impact on employment in the short-term and long-term because of the fire, rebuilding to resuming normal operations?
- Statements of support: A couple people thank Husky Energy for investing in Superior and supporting Superior businesses.

#### *Participant questions related*

- Is there a financial / corporate relationship between Husky and Calumet?
- Why isn't Husky investing in cleaner and more sustainable energy? If they already are, how is this occurring?
- Will Husky continue operations?
- What kind of financial shape is Husky in? (concerned about bankruptcy).
- Impacts on employment both short term and long term
- If primary shareholders of Husky are out of Hong Kong - how can we ensure they care about us here?
- Would be good to hear from a union rep at Husky
- Will Husky benefit financially from Enbridge's proposed Line 3 expansion, which endangers wild rice in treaty-ceded territory?
- Will they still be in business 1-2-4 yrs from now in Superior?
- Thank you Husky! We'll all get through this together, you have been a good neighbor.
- Thank you to Husky for spending \$ in Superior during follow-up (not Duluth). :)

### Production Process - Hydrogen Fluoride

- There are a lot of community anxieties about the cracking process that uses hydrogen fluoride. What business decisions go into modernizing refining processes to a “safer” process, and what would it take to adopt these new processes?
- How do community concerns about the utilization of hydrogen fluoride play into the decision making into whether to change production processes or not?

- What is the community risk of having hydrogen fluoride at this facility? Are there additional measures that Husky Energy could take the further reduce these risks?
- Who regulates the use of hydrogen fluoride?

#### *Participant questions related*

- I want to know about the HF tank and what could have happened had it been compromised.
- Has all alternative options been explored in conversion from Hydrofluoric Fluoride \$ Cost, Value, Community Safety.
- Why did Husky not disclose the risk of HF fire during the evacuation?
- Switch from Hydrogen Fluoride process - can they?
- Will they do what it takes to no longer use Hydrogen Fluoride in the production of asphalt?
- How much time before Husky changes its method to the safe acid alternative?
- H2SO4 carries it's own risk (increased transportation) I have experience in HF work and would hate to see a hasty decision.
- As a community are we okay with allowing Husky to continue business w/out making the change? Is Husky continuing as usual?
- Does Husky plan to convert from HF to H2SO4 acid catalyst?
- Who has the power to get Hydrogen Fluoride out ASAP?
- Concerned with overstated mis-information as to the true danger of HF releases vs. what could have actually happened @ Husky Superior. Provide relevant facts.
- We'd like to have the tank with the Hydrogen Fluoride removed from our community.
- Process of Hydro/Fluoride - move to remove from community
- Hydrogen Fluoride - how serious are they considering changing?
- Is it true that if HF had blown up would it have wiped out the town?
- Let us assume that this will happen again. Therefor Husky can be proactive and reduce their threat to our community by changing their cracking process away from Hydrogen Fluoride to a less risky process like a solid acid catalyst system or even better an ionic liquid process. Will they do it? Will Wis. help them do it?

#### **Production Process**

- What refining process changes has Husky Energy committed to changing in the future, what changes are under consideration?
- Considering this event, what new or revised safety processes is Husky Energy making to make the refinery safer for employees, contractors, and the community?
- When will the refinery be operational again?

#### *Participant questions related*

- How will Husky Energy change its refinery processes going forward?
- How will Husky Energy change its safety processes?
- How do you make it safer.
- How long before Husky has the refinery fully operational again?
- Actions to avoid future incident?
- When will refinery reopen? How will it look?
- Assurance that most up to date technology is used to minimize pollution and guarantee safety of all.

## Refinery Community Relations

- Husky Superior Refinery facilitates a Community Advisory Panel (CAP). Are these meetings open to the public? What occurs at these meetings? How are members selected?
- Has Husky Energy considered regularly publishing air monitoring data or making this data available on-demand to the public?
- How does Husky Energy communicate plans for the Superior refinery?

### *Participant questions related*

- Is CAP available to the public?
- Will Husky install public air monitoring devices (like California) for the public
- What role (power) will community advisory board have WRT future operation? Periodic updates to them?
- How will the public be notified of Husky's plans for the refinery?
- Who is responsible for making sure that Husky is actually being a "good neighbor" and not trying to duck responsibility? Or make things seem like they aren't as bad...

## Regulation

- Who regulates Husky Superior Refinery?
- Will Husky Energy release monitoring data for independent research and analysis? (repeat question)
- How does the public have access to chemicals and other materials being used and stored at the Superior Refinery? Does this information exist in current regulatory documents, application, or reports?

### *Participant questions related*

- Who regulates Husky?
- Will Husky work with the DNR to release field data for indep. Analysis?
- Does the public have access to information about what other substances Husky is storing on site.
- Access to ongoing data collection
- What regulatory agency has the most / final authority to insure the public's safety with regards to Husky Energy's operations?

## Safety Record

- Is there a pattern of accidents at Husky Energy or the Superior refinery specifically? What is done to analyze root causes of past accidents, and make process or other changes to ensure these do not happen again?
- What does Husky Superior Refinery do to protect the environment during normal operations, and during/after and emergency event?
- How can events like this be prevented in the future?

### *Participant questions related*

- What ramifications / consequences will there be to ensure this pattern of accidents doesn't continue?

- Considering this is not the first disaster at a Husky facility and not the first disaster at this refinery this will likely not be the last. What will Husky and Superior do to protect the environment - lake, watershed, and soil, from future disasters.
- Does Husky's terrible safety record at its other facilities trigger any special monitoring by regulators?
- Can an occurrence like this be prevented in the future?
- What will Husky do to ensure that nothing at the refinery is dangerous to the local people and area?
- Will Husky ensure that they are using non-toxic or damaging chemicals / components, and keep up-to-date with equipment and processes?

### Turnaround

- What is a turnaround? What is the impact on the refinery? How often do they occur?
- How are turnarounds communicated to the public?
- Does the turnaround event cause any greater risk to the refinery or community at any time preparing for or during the turnaround?

#### *Participant questions related*

- Will Husky make turn-around schedules public?
- Please explain the turnover process: what happens to the refinery during a turnover?
- Will Superior establish a citizen's review board for the refinery which monitors refinery emissions and is made aware of the turnaround schedule? (Turnaround days are some of the riskiest days for the community)

### Other

- Between age of the facility and potential damage from this fire, what are rebuilding and modernization plans?
- Near the Husky Superior Refinery there is a cluster of petroleum-based businesses, what processes and procedures are in place to ensure an incident doesn't create a chain-reaction event that could engulf multiple facilities?
- What are the long-term concerns about environmental contamination at the Husky Superior Refinery? Once this facility reaches end-of-life at some point in the future, is potential contamination able to be mitigated, or could more extreme measures be called for (e.g., Superfund designation)?

#### *Participant questions related*

- Will this be a Superfund site years from now??
- Aging and fire and heat damaged infrastructure. Will they upgrade when rebuilding?
- How to ensure a major incident at Husky doesn't affect LNG storage.
- If climate change is almost 100% believed, when will this refinery be shut down?
- If we are nearing the end of the fossil fuel era does that mean refineries will stop investing in the cleanest safest technology?
- Business Resource / Reference? (Business to Business)



### Question 3

**Question: What outstanding concerns, ideas, or questions do you have about emergency services and government response to the Husky Energy fire on April 26?**

#### Communication and Information

- Has or will the community assessed communications tools used during this event, and how the community and emergency services can improve on communications, including the use of new or additional technologies?
- Do evacuation plans exist? How are these communicated to the public?
- There are concerns about the quality and accuracy of information, what can be done in the future to ensure timely and accurate information?

#### *Participant questions related*

- Poor communications could be improved
- Thorough emergency / evac plans. Proper communication and execution of one at plant and in community
- Why wasn't there an alarm like tornados?
- Who is held responsible for inaccurate news? (DNT, WDIO...) Who said fatalities?
- Lack of information on the radio.
- Emergency broadcast system?
- Why was there not a widespread, varied notices via text, robocalls, etc to assist with evacuation? We would like a centralized alert system that alerts everyone simultaneously of the danger?
- Communication with responders / services and community (what forms are used?)
- How is correct / appropriate information disseminated?

#### Community – Future Response

- Do local or other regulatory or political processes exist to influence the use of hydrogen fluoride (HF) by Husky Energy?
- Can the city partner with large industries in the City of Superior, to create “good neighbor” policies and procedures for doing business in the City of Superior, even on a voluntary level?
- How can the city and county facilitate greater discussion and openness between government, industry, and citizen?

#### *Participant questions related*

- How can Superior establish a fossil fuel tax for businesses that participate in the processing and refining of fossil fuels. Would Superior use this money to develop more renewable energy infrastructure?
- Besides asking for Husky to stop using Hydrogen Fluoride, how can Superior stop the use of this hazardous chemical in the community?
- Will Superior establish a citizen's review board for the refinery which monitors refinery emissions and is made aware of the turnaround schedule? (Turnaround days are some of the riskiest days for the community)
- Citizens review board to monitor refinery and track environmental and emergency response.

- Why doesn't our city educate citizens on long-term emissions impacts?
- Does Superior have a code or set of standards for large companies, in order to do business here? (i.e., "good neighbor" policy)
- Can we craft a community good neighbor policy w/ industry?
- What would the county / state / city change in future response (fire) at refinery?

### Emergency Management and Services

- Were there any issues with the Emergency response or questions about leadership?
- How does emergency management work?
- What lessons were learned by emergency management, what will be done in the future, and is additional training or capacity needed?

#### *Participant questions related*

- Was there ever a question as to who was in charge at the EOC during the fire event?
- Can Em. Mgt. community provide story map? FAQ? Report how Em Mgt Works?
- What local expertise training was missing.
- What lessons have been learned about emergency response efforts and resources?

### Evacuation

- What are the community evacuation plans? How are they communicated to the public in advance? What challenges did emergency management experience implementing these plans?
- The announced evacuation area changed throughout the day? Could this have been handled in a more effective way?
- Were proper procedures followed in terms of lifting the evacuation order, and were some to eager to lift the order before the refinery was secured?
- Why were some evacuation locations selected? Four Corners School was a Red Cross evacuation facility, was this a proper location given the plume? There were "mustering points" in the community including the Mariner Business Center and Yellow Jacket Union, were these official locations, how can this be better selected and coordinated in the future?
- Will anyone examine why some people did not evacuate, and what can be done to improve evacuation compliance if something should happen in the future?

#### *Participant questions related*

- Evacuation drills / awareness - there wasn't much before.
- Who didn't evacuate and why?
- Rush to give all clear - why? (Evacuation)
- I was concerned I would not be able to get back to my home in South Superior to get my dog and belongings as I was heading out of town and had to guess. Fortunately I was able to. Hopefully this will always be the case. \*What criteria is used to decide who and when can enter an evacuated area?
- Dep. Sharif came by at 5:30 PM Why so late into it-
- Why was there an end time given for the evacuation if they could not concretely confirm the fire would be out and not restart?
- What sort of transportation is provided for low income residents to evacuate?

- Concerns about the locations of mustering points - some were within or near evacuation zone, or closer to the refinery (4 Corners, Mariner Mall)
- Why was the Mariner Mall a mustering point when it was within the evacuation zone?
- Evacuation Plan: Why were people evacuated to 4C School - south of town. 4C school is on the north side of County Road B when everyone north of B was supposed to evac. Also, why send people south in the direction of the plume?
- Why wasn't UWS evacuated sooner, if that area was evacuated?
- Evacuation timelines was confused.
- City evacuation planning. Warnings What venue for notification? Is there a more effective way to provide info to public? TV-OK. What else is available?

### Fire Response

- Emergency Management is not treating this as an active event at this point, what determines when an emergency event is over from an emergency management perspective?
- Were any emergency personnel injured, and are there any concerns about health now or potential health issues in the future?
- How would evacuation and plans have changed if this event covered a wider area, potential into Duluth?
- What lessons were learned in terms of emergency management response and what would have been done different and how those lessons have changed planning for future events?

### *Participant questions related*

- Not very well coordinated or put together.
- Not well developed from a disaster standpoint.
- Why does Emergency Management consider this disaster over?
- How would a larger, Twin Ports-wide evacuation be organized if less fortunate environmental conditions created the need for one? Where would people go? How?
- Appreciate Duluth/Superior mayors together.
- Concern for health of responders

### Other

- Should Wisconsin Economic Development Corporation (WEDC) or the State of Wisconsin play a role in helping to fund a process other than hydrogen fluoride (HF) at the Superior Refinery?
- Is a comprehensive list of responding agencies available?

### *Participant questions related*

- I appreciate the fire dept.!!! Also -> Janet Bewley Tammy Baldwin!! Thank you for coming to Superior. Sean Duffy "tweeted concerns" before tweeting about the NFL draft. He did not seem tuned in to what was happening here.
- Is it possible to get a list of all those who helped? (employees, responders, donations, support services)
- Since the state permits the operations of the refinery and since the state provides incentives to industry - think FoxConn. Will the state provide incentives for Husky to change their cracking process away from Hydro Floric acid to a process more environmentally friendly and much safer for our community?

## Preparedness

- Do we have adequate fire protection services based in this community (or immediate vicinity) to respond to a fire or emergency event at the Refinery or other large industrial locations?
- What lessons can the city or community learn by looking at past experiences and best practices from other cities with similar industrial facilities?
- How do emergency services prepare for potential events like this, including partnering with industry? Were any lessons learned for improvement in the future?

### *Participant questions related*

- Concerns about process, accurate info - competence? Are the entities involved in disaster response, testing, etc. going to be better coordinated in the future?
- Need to have up to the minute info on what and how much volatile materials is on site and exactly how much and what suppressant is available.
- Should not be waiting for at refinery fire team to travel from Texas while fire burns.
- If we have this refinery we should have a team or Husky should be available here.
- Thorough emergency / evac plans. Proper communication and execution of one at plant and in community
- Can the city or county join with other like municipalities with refineries, etc?
- What is the tax burden for Hazmat? Distribution of tax burden?
- Does the state have a requirement to provide the basic infrastructure components to keep mo. And rural w/ safe, competitive, and sustainable.

## Public Trust

- How can government and industry restore a sense of trust and safety for citizens concerned about living around an industrialized area, which includes a vibrant petroleum and energy industry?
- Some citizens heard conflicting or information they believed to be incomplete from people, including elected officials? What steps can be taken by elected officials and government to ensure that information being delivered at times of public emergencies will be the best and most accurate information available at the time?

### *Participant questions related*

- As a gainfully employed member of the community with a master's degree, I love this community, but am considering leaving because I do not want to risk my life or my family's life in the event of future refinery disasters. What is Superior doing to keep people here and keep them safe?
- If Jim Paine is opening this meeting saying he's not responsible why is he saying everything is safe - knowing there is no data.
- Trust / believability, "historical wounds" trauma + what can city / government do to repair trust?
- How is information labeled to be from "trustworthy" sources?
- It was good to hear our mayor speak to reassure the community but I did not feel that we were told the whole truth and that the situation was really minimized. Hydrogen Fluoride not brought up until very late in the process.

## School District

- Given the proximity of the schools to industrialized areas, including the refinery, what steps need to be taken to update evacuation and emergency plans to ensure student safety?
- Has the school examined the timeline from April 26 and evacuation procedure? What lessons were learned from this event for improving in the future, in the event of an emergency?

### *Participant questions related*

- There are five schools within two miles of the refinery. Our children are on the front line for these disasters. What is the city doing to protect these schools during these disasters, and going forward, especially considering the known increased rates of cancer and respiratory illness for those living near refineries?
- Concern about kids at AMSCOil and people went to Duluth to get their kids poorly communicated -> inaccurate information
- Communication with parents from school was not clear when / if it was safe (esp. for nearby schools) to the refinery
- Communication with school -> community. Evacuation procedures; how to communicate with parents / community; what forms of communication are used.
- School response! School close to Husky let kids go sooner.

## Question 4

**Question: Do you have any other concerns, ideas, or questions about this incident that you haven't had a chance to share yet?**

### Energy Industry

- What are the transparency policies for energy related companies operating in Superior, like Husky Energy and Enbridge?
- Citizens would like to learn more about the energy sector in Superior, how these companies interact with each other, and what they do. What opportunities are there to learn more about the energy sector in Superior and the Twin Ports?

#### *Participant questions related*

- I would like detailed explanation of how all of the industry near Husky fit together.
- How can people learn about what is going on with petroleum industries locally?
- What is Husky and Enbridge transparency policies, and how will local government serve the people by making sure they (Husky / Enbridge) are transparent always... not just during "special events"?

### Public Engagement

- Will there be more public meetings like this?

#### *Participant questions related*

- Do more of these meetings like this. More meeting not all on website.

### Tourism

- Will this impact summer tourism?

#### *Participant questions related*

- Will this impact summer tourism?

## Appendix A: Agenda for May 14

### Community Listening Session – Husky Superior Refinery Fire

Hosted by UW-Extension and The Lake Superior Reserve

#### Agenda – May 14

- Welcome and Opening Comments
  - James Anderson, PhD – UW-Extension
  - Erika Washburn, PhD – The Lake Superior Reserve and UW-Extension
- Elected Officials and Guests
  - Sen. Janet Bewley (Sen. District 25), and Rep. Milroy (Assembly District 73)
  - Mayor Paine and Douglas County Chairperson Mark Liebaert
- Agency Comments
  - Connie Antonuk, Wisconsin Department of Natural Resources
  - Public Health:
    - Lindsey Krumrie, Environmental Health Specialist, Douglas County Environmental and Public Health
    - Jessica Maloney, Wisconsin Department Health Services
    - Disa Patel, Wisconsin Department Health Services
- Small Group Discussion
  - We will break into twelve (12) groups, you were assigned a group earlier by a slip of paper. Please look for that group to join.
- Feedback from Groups

#### Ground Rules

*To ensure everyone has an opportunity to speak and is respected.*

- Allow one person to speak at a time.
- Share your concern, idea, or question. Avoid detailed explanation or debate unless you need to clarify your point.
- The opinion of everyone matters, please be respectful if you disagree with someone.
- Tonight is about **dialogue, not debate.**

*We are not here to assess blame or speculate. Our mission is to give an opportunity for concerned citizens to have a voice and express their ideas in a positive and productive environment.*



## Appendix B: Process for Facilitated Discussions

### Community Listening Session

#### Husky Superior Refinery Fire

#### ***Final:*** Facilitator Process and Questions

#### **Instructions:**

- Welcome everyone and thank them for coming.
- Review process “ground rules”
  - The opinion of everyone matters
  - One person speaks at a time, mutual respect
  - Everyone will have an opportunity to share, because of time – this isn’t a time for debate, and we would ask that sharing not turn to discussion. The facilitator may seek more information for clarity.
  - Tonight is about **dialogue, not debate**. We are not there to assess blame or speculate. Our mission is to give an opportunity for concerned citizens to have a voice and express their ideas in a positive and productive environment.
  - All feedback and questions gathered tonight will be summarized, categorized, and shared with relevant agencies. This does not mean we will be able to get an answer to every question, but we can make Husky Energy, and agencies aware of questions and concerns the community is expressing.
  - The formal gateway to provide feedback back to the community will be at:  
<http://www.douglascountywi.org/1046/Husky-Fire>
    - UW-Extension will also provide this information at [douglas.uwex.edu](http://douglas.uwex.edu) and on their Facebook page, however, the Douglas County website is considered the central repository for all Husky Refinery fire documents and reports at this time.
- Process
  - We will review 3 questions
  - For each question, you will have a few minutes to write down your ideas, concerns, and questions related to the focus question.
    - Please write on the Post-It notes
    - Write one-idea per note
    - Pens and Post-It’s are at each breakout table
  - Provide 3-5 minutes for brainstorming.
  - Once everyone is done writing, or the time limit has been reached, begin debrief.
  - Debriefing / sharing
    - Working clockwise or counter-clockwise, as someone to share one of their notes.
      - Ask for clarity if needed.
      - Ask for a show of hands if others had this same concern, idea, or question.



- If multiple people did, write the total # and circle on the sticky note.
- Collect the sticky note, and place on the flip chart paper for this focus question
  - If multiple: Collect all *stickies* related to this question, so we can capture any nuances.
    - Move to the next person for sharing. Repeat until everyone has spoken, repeat as necessary.
- Depending how long initial presentations go, you may only have about 30 minutes per question to work through each of the focus questions. Keep time management in mind.
- If others are disturbing or talking over others, try to regain group focus on the person sharing, ensuring each person has an opportunity to share.
- If time runs out before all thoughts are shared for a focus question, **make sure to collect all Post-It's, so those ideas, questions, and concerns are not lost.**

**Focus Questions:**

Question 1:	What outstanding concerns, ideas, or questions do you have about the environment following the fire on April 26?
Question 2:	What outstanding concerns, ideas, or questions do you have about Husky Energy following the fire on April 26?
Question 3:	What outstanding concerns, ideas, or questions do you have about emergency services and government response to the Husky Energy fire on April 26?
Closing:	Do you have any other concerns, ideas, or questions about this incident that you haven't had a chance to share yet?

## Appendix C: Data Set

A Microsoft Excel spreadsheet of the data collected is available at no cost by email request to Douglas County Extension, please email [cheryl.shockley@ces.uwex.edu](mailto:cheryl.shockley@ces.uwex.edu).