Slide # Slide information (title)	Question (or Comment)	Answer or Response (8/25/22)	Follow-up Response (Blue Coast Engineering)
			
			<u> </u>
Contextual Project Map			
4 Contextual Project Map with specific data gathering points			
5 Average Surface water & Precipitation		Solicity and surface water ware measured where the blind correct is in the read, on the south side there is a	
Collected New DND Deed	Where slong Point No Point Road did you test colinity?	Samily and surface water were measured where the bind corner is in the road - on the south side there is a ditch channel that need out toward Durat Sound. It was measured here.	
o Sainity Along PNP Koad	Water Surface Elevation within the chappel or in march? What do you	ultion charmen that goes out toward r oger sound. It was measured nere.	
7 Wester Elevation & Descinitation during King Tide	mean by "within the obonnel"?	instrument within that ditch expectionally	
Vivalet Elevation & Precipitation during King Tide			
8 Salinity at 1 de Gate during King 1 de		This is the eviction conditions with high precipitation events. This and the simulation show some surface water	
		This is the existing conditions with high precipitation events. This and the simulation show some surface water	I
	Dans this show suffers fresh water out all, serves the Baist No Baist	Howing only the focus in these scenarios, we need to check elevations, cluat can be inaccurate across	I
	Does this show surface fresh water actually across the Point No Point	very hat areas and many not capture suble dimerences in elevation. The area hear the blind comer is	I
9 Water Elevation & Precipitation during King Tide	Ro to the North (during high fain period)?	where moveding is coming out of the marsh.	
	King Tide impact based on tidel elevation only as used driven ways?	Sain 7 King Tibe event stimulation only simulates the king tibe, not wave overtopping with wind wave event. We	I
10 Existing Surrace water Conditions - Jan 7, King Tide	King Tide impact based on tidal elevation only, or wind-driven waves?	will consider this in a rutule phase of the design.	
		As a stating point the large designed for our simulation of 2 ft above line tide. EEMA Flood elevation (42)	I
		As a starting point, the levee designed for our simulation at 2 ft above king tide. FEMA Flood elevation (13).	I
		We will do a zero rise analysis (required by remin & County) to show in there would be a change in the remin	I
		riod elevation. In general, Puget Sound has infinite storage capacity so on coastal projects the PEMA	I
10 Existing Surface Water Conditions - Jan 7, King Tide	King Tide impact based on tidal elevation only, or wind-driven waves?	tiood elevation typical does not change. It is considered a flood zone now, and that won't change.	
10 Existing Surface Water Conditions - Jan 7, King Tide	rung i ue impact based on tidal elevation only, or wind-driven waves?		
11 (Transition Slide) Groundwater Measurements Existing Conditions			
12 Contextual Project Map with specific data gathering points			In a later declaration where the later of th
	is it too early to estimate a benefit of project for Sea Level Rise,	Managements and a Baltic back to Manad B based as the set of the set of the set	in a later design phase, the levee for the chosen project
13 Lots of Data (Precipitation, Tidal, Groundwater & Surface Water graph)	compared to existing conditions?	It's never too early. Raising both the N and E beach area are major consideration for resiliency.	footprint. will be designed to adjust for sea level rise.
			1
14 Groundwater in Feet: W End of PNP / Inside Tide Gate following tidal signal 11/21-12/21			h
	Hand the set the set the	4 of the weils are 20 deep 1 is 50 (#4, confirming the lack of a confining layer) in the marsh itself the weils are	I
15 Groundwater in Feet: Intense rain/King Tide/ Saturation Decreases 1/1-1/19/22	How deep are the wells?	10 deep.	<u> </u>
	is it too early to estimate a benefit of project for Sea Level Rise,		I
16 Plan View of Ground Water	compared to existing conditions?		h
	Comment: Most homes have no hill slope between them and marine	Fair enough. There is always a vertical exaggeration on the scales for these type of figures. Seem higher in	I
17 Current Conditions (Elevation drawing)	waters. Need better concept image.	scale.	<u> </u>
18 (Transition Slide) Possible Future Conditions			<u> </u>
		We haven't actually included wind driven waves on top of the king tide yet but we set the levee at 2° abouve the	I
		king tide level, and typically in Puget Sound wind-driven tides are 1, and that's just as it hits the beach. We will	I
19 Lidar detail project view	Does levee neight take into consideration wind-driven wave effect?	be creating a more detailed design.	h
		Orange line in the diagram. Starts at the Lighthouse, and parallels the road on the inside of the marsh on the	I
		southern side of PNP Rd itself, and then we are also showing levee that comes across the western side. The	I
		nome there has a wettand. I hat is going to require detailed design, whether this is the best solution we need	I
	Million for the office of the Defendence Defendence	to do more study. We need to convey water from the wetland benind that nome into the marsh, and wrap	I
19 Lidar detail project view	where is the dike along Point No Point Road?	around the levee to protect that nome. Just a concept.	h
		We're not restoring to original natural conditions (channel to the N historically), but an analogue to a barrier	I
		embayment. A sativater estuary system. We have natural examples (Doe Kag Wats, Thorndyke Bay, Natural	I
		systems with righ sait marsh. Given development, we need a levee to protect nomes and road on the N side.	I
	Why is a layer system process, if the plan is to "restars" to avising	PNP Rd is 6 reef renative to MLLW. When we are talking about resiliency, the levels is at 15 it. Levels and	I
	why is a level system necessary if the plants to restore to original	orised are very common, and the amount of habitat that can be achieved are much greater than the impact of	I
19 Lidar detail project view	natural condition?	installing a levee.	
		Beaches are dynamic. They change over time, in response to wind waves and storm events. Sand will be	I
		transported along shore on the N side from the W to E. On E side, it moves from the N to the S. We account	
	I could one where the stability of the anticompart course from	for an of these dynamic charges - enough beach width and height to work with these hatural coastal	I
19 Lidar detail project view	I can't see where the stability of the enhancement comes from.	processes, and with these forces.	
	Comment. We re not taking about sand on the road. Each year sand		I
40 Lider detail preiest view	nom both the N beach & E beach have great movement during whiter		
19 Lidar detail project view	Stoffils		
		in we do a run rootprint design, the water is or mininew will indictuate with the tide, op until the elevation of the	1
		period of time, and then drain out. A lot of that area will transition to salt water, have showed, and cand, and	1
20 Respible Surface Water Conditions: Jan 2.4 Interne Pain	How birds will water go at birds tide N of Hillyiew Lane?	period of anite, and derivatin out. A lot of that area will barshor to sait water, have charmers, and sand, and	I
20 Possible Surface Water Conditions, Jan 2-4, Intense Rain	now high will water go at high doe to of thinkiew Earle?	provide drainage.	
		We do not have an aiswel yet. At the end of the year we are rainy connuent that we will know more. The	I
		aroundwater in channels in the march itself, so those ditches will be freed up for stormwater. We need to build	1
20 Possible Surface Water Conditions: Jan 2.4 Interso Poin	How does storm water move from N residential are to S of lowoo?	the aroundwater model to confirm. High aroundwater table is key	1
21 Possible Surface Water Conditions: Jan 7 King Tide	How deep is the water at the W end?		1
21 Possible Surface Water Conditions: Jan 7, King Tide	How tall is the levee?		
Lin source surger conditions, dan r, hing has	Comment: Simulation of King Tide is absolutely frightening as a		
21 Possible Surface Water Conditions: Jan 7 King Tide	homeowner living on PNP near levee	Response: (To the additional verbal question, "Who gives you the right?"	1
22 Possible Future Groundwater	noncomo ma magori i ni nodi lovec	response. The the deditional verbal desition, while gives you the right:	r
	How will you manage surface water on N side of the levee and protect		ſ
23 New Wetland Profile (Elevation drawing)	homeowners' septic systems?		1
		We're not talking about pumping in our model. We will be able to covey some of that around water into	· · · · · · · · · · · · · · · · · · ·
23 New Wetland Profile (Elevation drawing)	Where does stormwater ditch drain to? Is it pumped?	channels in the saltmarsh and then it will drain twice a day with the tide	1
24 Current Conditions (Elevation drawing)	where does atomiwater uten utain to r is it pumped?	onaminois m uno senumarsin, ditu uneri it wili uneri it wito e a udy with une tiue.	Г
24 Current Conditions (Elevation drawing)			
20 Aspect During Logs			[
20 Greenbank - roject comparison		Eutyre conditions at this point was simply a concentral eversion for this mosting. We may interfault in a	
	Have climate change / Sea Level Rise calculations been considered in	model and design we will have additional considerations. We can build the laver bioher and bioher, but there is	1
27 (Transition Slide)	the modeling? (No slide - general question)	a balancing act with the surrounding area	1

		The substrate itself is march on tap and then sand henceth that. We would execute out shappeds, and that	
		The subsidiate itself is marsh on top and then some before subsidiate would excavate out chainlines, and that	
		sand would become exposed. In the places that are currently resh water matsh that would becay then	
		recolonize with sait marsh vegetation. We have seen this happen within as short a time as a year	
		(Stillaguamish River Delta, for example) where they have restored parts of the river delta to tidal inundation.	
		Salt Marsh Plants come in quickly. You will still have high marsh and salt marsh plants rather than fresh water	
	How do you expect substrate in the marsh to change? With the low	plants. As a comparison, Carpenter Creek Estuary in Kingston has a substrate that is quite silty/muddy	
28 Next Steps	velocity it seems the marsh & ditches would currently be very fine.	material. Different geology than PNP. Here we have sand in the channels and open areas.	
	A little confused about flow of water. Looks like if there was no road, the		
	water would flow N naturally. The levee looks like it moves water to tide		
28 Next Steps	date area.		
	It will take 3 to 3-1/2 years to process & implement something. In the		
28 Next Stens	meantime, is it useful to permanently open the flood gate now?		
	······································	Ves we can do that. Aspect conveyed this through concentral diagram showing sand. No layers to show in a	
	It was helpful to see Greenbark comparison for soil structure. Can the	dowing bit up can produce a drawing for the upad area as well. We have the barriers in a well of Neuragian	
20 Next Stores	alide deak include the againalant structure for the Hanguille area?	anawing, but we can produce a drawing for the open on area as well. We have the borings in a well at Norwegian	
20 INEXT Steps	Side deck include the equivalent structure for the mansville alea:	Point, which continues contributes geology to share as well.	
		property. In this case, the property where the estuary restoration is proposed is owned by Kitsap County,	
		which means the County will decide whether or not to move the project forward from investigation, analysis,	
28 Next Steps	Who gives you the right (to make these changes to the land)?	and design (current phase) to construction. Kitsap County will make this decision by evaluating the work that	
		We are going to be in conversation with resource managers, with Audubon, and area biologist from WDFW	
		(Nam Siu). Assessing impact and coming up with a plan that minimizes impact is a requirement of permitting.	
	What considerations are there for the displacement of animals that	These partners have been with us through the preliminary design phase, and they will be crucial to project	
28 Next Steps	occupy the area?	success when we move to the permitting phase.	
		We are aware of the existence of the beaver dam, and yes, it could affect the surface water measurements,	
		but the beaver dam was not in place for any of the time periods shown here. A dam would dam up water, we	
28 Next Steps	How does the beaver dam affect the results of the gauge?	would have less drainage.	
		Homes cultural artifacts discovered historic location. Primary reason is that we would not be able to control	
		around water infiltration if we bed an opening to the N and protection private properties is paramount. From	
		ground when minimum and an opening to the r, and protecting private properties is planahold in the section of the conditions required for a barrier	
		study throughout the Sound and elsewhere we have a global series of the conditions required for a barrier	
	Million in the second sec	embayment from a geomorphic perspective - coasta processes and geology interacting to create a system	
28 Next Steps	why is the opening on the E rather than the N?	tracis sustainable and intact. The conceptual diagram is based upon this research.	
		The 150 opening was designed based on regression models. It is scaled to the size of the tootprint that is	
		chosen. These are self-sustaining channels. They have barrier spits with "arms" that are designed to protect	
		the tidal channel preventing sand and woody debris from flowing directly into the channel. IT would come out	
		on the eastern shoreline, then curve to the N. Turning in that direction would prevent wood from becoming	
		trapped, and it is wide enough and shallow enough to create the necessary velocities to keep it open. This is	
		scaled based upon our studies, and Skagit River Systems Cooperative (Whidbey Basin) who have looked at	
28 Next Steps	What is the source of permanent funding to keep the 150' opening open?	another 30+ systems as well.	
	If you divert surface water and most of the ground water to the E shore,		
	wouldn't the lack of hydraulic pressure be too low for saltwater to	Peter at Aspect Consulting will follow up. On N side of PNP Rd we are not seeing salinity now, and we do not	
	penetrate into the properties N of the levee? Would it be enough to kill	expect to see saltwater here in future conditions. This is a groundwater question and Aspect will follow up. The	
28 Next Steps	mature landscape?	surface water will be contained by the levee.	
Session 1 General Questions (not attached to a specific slide)	What is the length of time for project to finish?		
		When we do beach enhancement it's a combination of sand and large woody debris and vegetation. We work	
		with a landscape architect to maintain recreational opportunities and have a vegetation plan to stabilize the	
		heach in terms of erosion we allow for a certain amount of adjustment of a heach and we do wind wave and	
	How will beach arragion on the parth side be controlled? And who will be	beach profile abandos quer time. We quer pourish in order to allow our beach to adjust Maintenene allow	
Section 1 Constant Questions (act attached to a securitie slide)	responsible for it?	would be discussed with Healthy drift call without blockages, and codiment supply is read	
Session I General Questions (not attached to a specific slide)		would be discussed with - nealthy drift cell without blockages, and sediment supply is good.	
		res. The current conditions & problems will get worse over time. A lot of what we are talking about would	
		address several climate change scenarios, and make the area more resilient to climate change, particularly	
		that N Beach enhancement, and there needs to be a pathway for the water to go. The ditch channel is very	
		unstable. In nature, creeks are sinuous, and have a stable configuration including flood plains. The channels	
		now have caved in and become blocked. We consider future scenarios in everything we do. The levee heigh	
		and possible future conditions model is conceptual. It was built for the meeting to demonstrate what a levee	
	Have climate change / Sea Level Rise calculations been considered in	and tidal channel and an opening would allow in terms of management and drainage; something that is not	
Session 1 General Questions (not attached to a specific slide)	the modeling?	happening right now.	
		There are a number of projects that have been done with regard to converting fresh water marsh to salt water.	
		Overall the results show us that there is generally an increase in diversity of animals and birds and plants -	
		species that use those habitats. In Puget Sound we are lacking in salt marsh habitat. which is the impetus for	
		this project. We will need to write a biological assessment (NOAA, WDFW, Audubon will review) to convince	
		regulatory agencies that we are making a net positive impact. The protections for existing species are part of	
	What are the considerations for displacement of animals that occupy the	the construction process. Mid Sound would be moving species out of active project footprint fish rescue to	
Session 1 General Questions (not attached to a specific slide)	area?	minimize disturbance during construction.	