How do we know the onsite activities are SAFE

- FOR LIVING CREATURES.
- Measure bioaccum before and after disposal
- Risk of exposure pathway
- Measure exposure at the right scale

(Unclear)
CONTRIBUTION TO
OVERALL P.S. "HEALTH"
IN THE POSITIVE

HIGH STAKES + LOW Understanding
OF CONNECTIONS

BROAD COMMUNITY
- NOT CURRENTLY EASY to &
IMPLEMENT

1

-if DM stays on site

- Yes, need to know

- Can we know if offsite
(1B) bioaccum comes from DM?
  - CTS works? Old Update?
    - look only @ bioaccum chems?

- Sed. location
  - know where it goes, but sampling doesn't target recent disposal, so can't link questions.

1

DM Stay on Site?

- 1B needed at all?
  - not ~~useful to~~ answering question
  - ☆ - cut?
  - move to Q3?

2 On-site biological effects

- weight of evidence maybe more useful way to evaluate site
- data gap: TTLs for sites
- subject site sediment to lab bioaccum tests?
  - instead of bioassays?
  - how use data?
- benthic community avail. for consumption

2 On-site biological effects

- ~~[illegible]~~ inc. sampling in diff. spatial variations
- Core samples?
- project Bioaccum tests? (front end)
- eval. procedures also need ~~bioa~~ Bioaccum relevance
- sed toxicity onsite - continue?
  - replace w/ " bioaccum tests?
    - what are criteria?!?
    - Feedback loop imp. to think through

2

C - move locations based on where dredged material is

2.6. Bioaccum testing onsite is theoretical.

If done, it should happen after recolonization so is on actual organisms present

Incremental Sampling Method better option for bioaccum BCOC

Link/Compare to RB onsite

- esp. CB + EB

Marry Q2 + Q3?

Risk-based values @ sites?

- diff exposure scenarios
- need CSL + BSAF

would this change eval. procedures (eg BT)

2.G.

Bioaccum testing onsite is theoretical.

If done, it should happen after recolonization so is on actual organisms present

3

- transect stations moved/movable

- Add 1B?
- onsite & offsite data collected comparable
- monitor tissues onsite
- use lab bioaccum tests vs. tissue collection?
- what species are on sites or using sites?

Everything Else

What are program objectives?
is it Site Condition II ; SMS?
No issue/white paper to clarify

How do sites fit into
Regional Background?
SMS uses RB for BCOC -
combine with PSEMP to
get data?
focus on Elliott ; Commencement
Bay S (higest usage) for RB

Other

- calculate risk-values for sites consistent with ~~according to~~ SMS
- data needed:
  site specific BSAF, tissue ?
  Sediment, RMEs
- use existing info on HPAHs ?
  liver lesions to determine protectiveness
- are current TTLs OK?
- monitor tissues onsite
- coring sites to get vertical/temporal composite

Other

- what levels on site would it take to see increase in RB conc.

QUESTION	HYPOTHESIS
1. Does dredged material stay on site?	A. Dredged material remains within the site boundary
	B. No increase in sediment chemistry over time at offsite stations

BIOAccum
PAH PCB
metals
(HOC) ARSENIC
DIOXINS

QUESTION	HYPOTHESIS
2. Unacceptable biological effects at the site due to dredged material disposal?	C. Sediment chemistry at onsite monitoring stations does not exceed guidelines
	D. Sediment toxicity at the onsite stations does not exceed guidelines
	G. Bioaccumulation onsite doesn't exceed guidelines

HPH
Regional Background context
Flat fish

QUESTION	HYPOTHESIS
3. Unacceptable biological effects due to dredged material disposal offsite?	E. No significant increase in chemical body burden of benthos in area surrounding site
	remove? F. No significant decrease in abundance of dominant benthos

- decrease frequency of monitoring