

Site YF3 Corrective Alternatives Evaluation

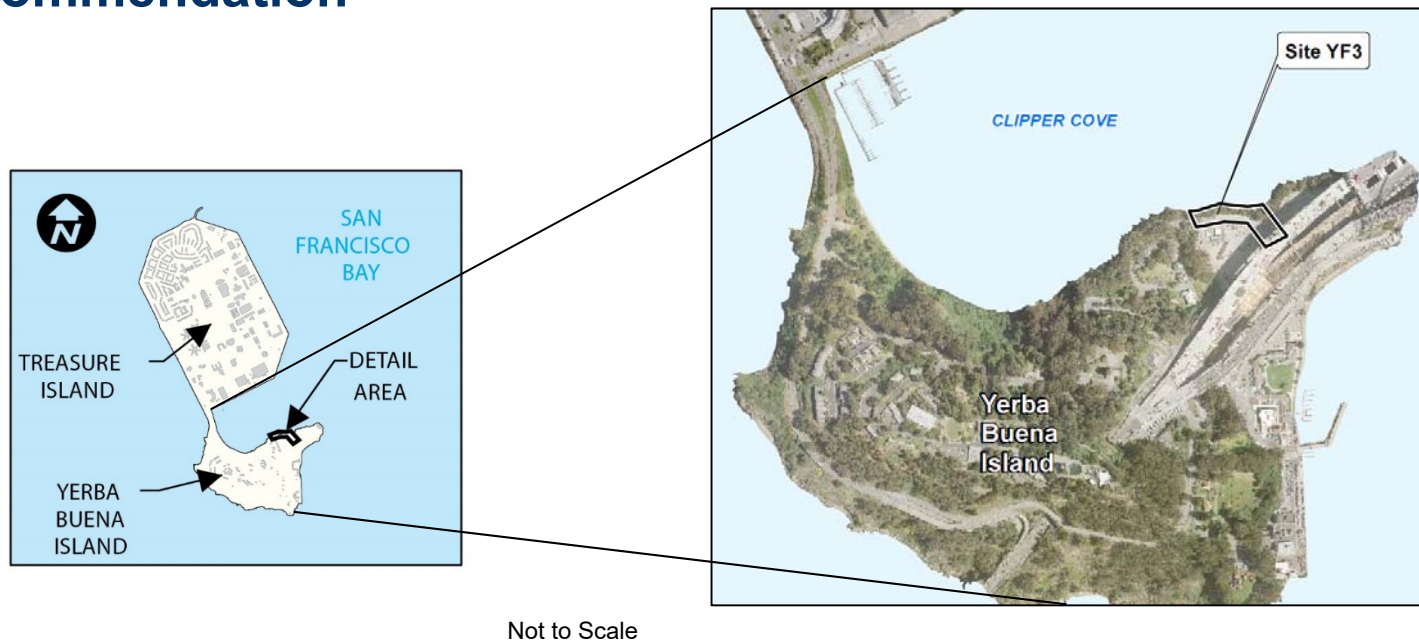
Former Naval Station Treasure Island
San Francisco, California

Dennis Parker
RAB Meeting
September 17, 2019

Presentation Overview



- Requested by RAB Member
- Site Background
- Corrective Alternatives Evaluation Process
- Recommendation



Site Background



- Site YF3 included a heating plant (Building 214) with AST/piping, dating back to 1945
- Petroleum Hydrocarbons (TPH) leaked from AST and piping but is currently stable
- TPH could be released to the Bay if disturbed by excavation or large storm/ seismic event



Site Background



Threats to Environment



- **Currently TPH is not being released to Bay**
- **No Human Health Risks**
- **If released to the Bay, TPH could harm aquatic organisms**
- **Excavation/Construction activities could cause release of TPH**
- **Major storm or seismic event potentially could cause release of TPH**
 - **No evidence of this happening in past**
 - **It's location should shield the site from most extreme storm effects**

Corrective Alternative Evaluation Process



- **Similar to a Feasibility Study**
- **Determine potential courses of action to address the risk**
 - **No Action**
 - No current or future actions/Baseline for other actions
 - **Land Use Controls**
 - Restrictions in Deed
 - Signage to inform site users
 - **Capping**
 - Add barrier at surface to prevent movement of TPH
 - **Excavation**
 - Removal of TPH contaminated sediment and soil

Corrective Alternatives Ratings



Alternative	Long-Term Effectiveness	Short Term Effectiveness	Implementability	Cost	Relative Ranking
No Action	Low	N/A	N/A	\$0	Lowest
LUCs	Low to Medium	High	High	\$300,000	High
Capping	Medium	Medium	Medium	\$1.5 to 2.0 Million	Medium
Excavation	High	Low	Low	\$7.0 Million	Low

Recommended Action



- **Land Use Controls (LUCs) is Recommended Action**
 - Limits on intrusive activity such as dredging, excavation, pile installation, and anchoring/grounding of watercraft
 - Signs to notify visitors of restrictions and buoys for no-anchor area
 - Long-term monitoring to check for visual sheen
 - Monitoring on regular basis (Annual)
 - Monitoring after major storm or seismic event
 - Periodic topographic and bathymetric surveys to confirm stability
 - Evaluate potential for sea rise impacts
 - Five-Year remedy performance reporting

Schedule



- **Agency Comments on Draft Corrective Alternatives Evaluation – September 30**
- **Resolve Agency Comments: October – December**
- **Final Corrective Alternatives Evaluation by January 2020**

QUESTIONS?

