



# Naval Station Treasure Island

RADIOLOGICAL CONTAMINATION CLEANUP



I. CDPH Roles

II. Overview of testing

III. Assessment of Cleanup Efforts

IV. Specific Question on 2014 HRA-STM

# I. CDPH Roles

## Environmental Management Branch (EMB)

- ▶ Consultant to DTSC on radiological cleanup at DOD sites
  - ▶ Review workplans & analyze data
  - ▶ Conduct confirmatory surveys
  - ▶ Issue recommendations regarding release of sites from regulatory controls



# I. CDPH Roles (Cont.)

## Radiologic Health Branch (RHB)

- ▶ State's Regulatory Enforcement entity that enforces the Radiation Control Law
  - ▶ Ensures health and safety of workers and the public
  - ▶ Issues radioactive materials license to remediation contractors

CDPH's defined role has not changed since it was determined that the 2006 HRA was flawed

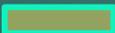


## II. Overview of Testing

- ▶ Gamma Survey Site 12 (2011) ———
- ▶ 9<sup>th</sup> Street Playground Survey (2012) ———
- ▶ Childcare Center, Boys and Girls Clubs (Bldg 33 A and B) (2012) ——— ———
- ▶ Surveys at Bldg 3, Wastewater Treatment Plant area, Bldg 342, Site 31, Life Learning Center (2012) ———



## II. Overview of Testing (Cont.)

- ▶ Surveys of three baseball fields – 2012 
- ▶ Survey outside residential areas (on or near Site 12) – 2013 
- ▶ Indoor residential homes survey oversight – 2014 



## II. Overview of Testing (Cont.)

- Confirmation Surveys and soil sampling following remediation activities (2014 – 2019) at:
  - IR Site 30, 31 & 6,
  - Bldg. 342, 343, 344, 3, 461 & 462,
  - Waste Water Treatment Plant



## II. Overview of Testing (Cont.)

- ▶ Soil sampling following remediation activities (2014 – 2019)
  - Bldg. site 461
  - IR Site 6, 20, 24, 30, & 31
  - Bigelow Court SWDA
  - Bldg. 233 site
  - Waste Water Treatment Plant



# III. Assessment of Navy's Cleanup Efforts

## In the past

- ▶ Inadequate identification of radiologically impacted or contaminated areas
- ▶ Lack of appropriate conceptual site model
- ▶ Inappropriate removal, sorting, transport and disposal of soil and debris
- ▶ At times, recommendations from regulators were not implemented

## Current efforts

- ▶ Improved conceptual site model
- ▶ Better communication between Navy and Regulators
- ▶ Successful completion of various remediation projects, such as:
  - ▶ IR Site 31, IR Site 20, Bigelow Court SWDA, Bldg. 233 site

# IV. Specific Question on HRA-STM

*In 2012 and 2013 your agency expressed alarm about the cleanup of Treasure Island, urging the Navy to update its assessment. What led CDPH to urge the Navy to take this further action?*

- ▶ Inadequate identification of radiologically impacted or contaminated areas
  - ▶ Radioactive materials found in areas considered to be not impacted.
- ▶ Lack of appropriate Conceptual Site Model
  - ▶ Not identifying Radium as contaminant of concern for the feasibility studies
  - ▶ At times, not implementing technical recommendations from the regulators
- ▶ Radiation concerns expressed by the public

## IV. Specific Question on HRA-STM (Cont.)

*What is the CDPH assessment of the 2014 HRA-STM from the Navy?*

- ▶ The 2014 HRA-STM is an effective document
  - ▶ With updated radiological history of Treasure Island
  - ▶ Input from regulatory agencies was added
  - ▶ Provides a conceptual site model which serves as a blueprint for radiological ongoing remediation at Treasure Island