

Hunters Point Naval Shipyard Environmental Program Fieldwork Update



Hunters Point Shipyard Citizens Advisory Committee
Environmental & Reuse Subcommittee Meeting
August 22, 2022

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**Hunters Point Naval Shipyard
Navy Base Realignment and Closure (BRAC)**

Parcel E-2 shoreline, 2018



Parcel E-2

Site Description

- Approximately 47 acres
- Southwestern portion of HPNS

Historical Use

- Former shipyard landfill

Environmental Cleanup Status

- Remedial action ongoing
- Scheduled completion: November 2024



Parcel E-2 shoreline, today

Parcel E-2 Cleanup Status

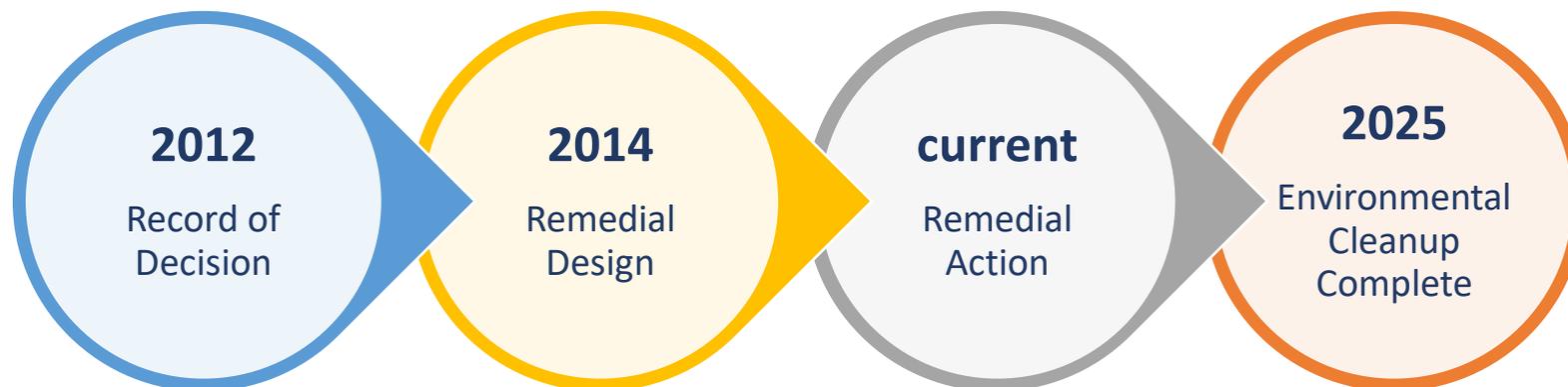


- **Recent Activities**

- Prepared site for installation of final cover system over non-wetland areas
- Maintained stockpiles of clean fill material in preparation of grading
- Continued landfill gas monitoring
- Conduct site grading and surface preparation

- **Next steps**

- Install geosynthetic layers of cover system over non-wetland areas (June - August 2022)
- Install vegetative layer of cover system across site (August 2022)
- Construct tidal and freshwater wetlands (2022-2023)
- Construct new landfill gas collection system (2023)



Parcel E-2 Areas

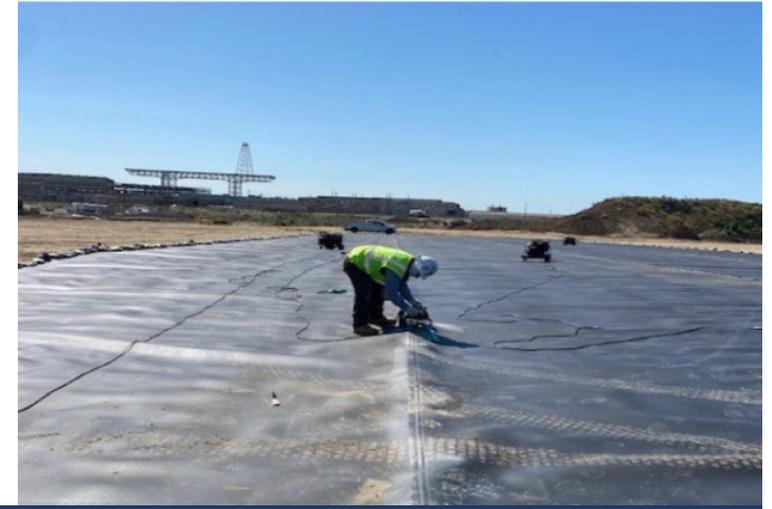




A geosynthetic clay liner (GCL) was installed for extra protection over landfill wastes



Drainage geocomposite (left) and high-density polyethylene (HDPE) (right) were installed over the site to drain excess water in cover soils (wetlands excepted)

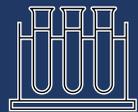


A demarcation layer has been placed over the entire site to serve as warning that that impacted soils are close

Parcel E-2: landfill cover installation



TECH TALK: Sea Level Rise



Parcel E-2 - Revetment and Sea Wall – 12 feet Above Mean Sea Level

Effects of sea level rise are important to the Navy's environmental remedy at Parcel E-2.

- A revetment and sea wall are included in the design to protect the shoreline.
- Together, they act as a barrier to prevent erosion of the soil cover.
- The sea wall will also protect a walking path that will link to the Bay Trail.

Revetment

- A barrier of large rocks has been installed along 1,800 feet of shoreline where Parcel E-2 meets the shoreline
- It is about 35 feet wide and rises about 9 feet above mean sea level



View of revetment and sea wall



View of sea wall from parcel E-2

Sea Wall

- A 3-foot-high concrete sea wall was added at the top of the revetment to address potential wave run-up during winter storms
- Together, the sea wall and revetment extend 12 feet above mean sea level (approximately 9 feet above average high tide in the San Francisco Bay)

UNDERSTANDING RADIOLOGICAL RETESTING AT HPNS

THE NAVY WILL TAKE NEW SAMPLES AND SCANS

AT AREAS EVALUATED BY TETRATECH EC

100% OF TRENCH UNITS

100% OF SOIL UNITS

100% OF BUILDINGS AREAS



building areas
will be scanned and analyzed
in approved off-site labs

surface swipes

will be conducted with
specialized cloths on
existing building interiors

Former electronics shop at Parcel G, 2004



Parcel G

Site Description

- Approximately 40 acres
- Central portion of HPNS

Historical Use

- Ship repair and maintenance
- Radiological research

Environmental Cleanup Status

- Remedial action complete
- Radiological retesting ongoing
- Scheduled completion: Fall 2023



Parcel G, today

COLLECT SOIL DATA

cesium

radium

strontium

plutonium

thorium

uranium

EVALUATE DATA

compare to remedial goals (RGs)

DETERMINE ACTION

confirmed above RGs =
further evaluation
and/or remediate

not above RGs =
no action

Parcel G Radiological Retesting: Cleanup Status



• Completed Work

- Phase 1 – 21 Trench Unit excavations
 - Fieldwork began September 2020
 - 19 of the 21 Trench Units have been excavated and sampled
- Former Building Site and Crawlspace Survey Areas
 - All sites have been scanned and sampled
- Existing Building Surveys
 - All 6 building surveys complete (July 2022)

• Current Activities

- Analyze soil samples for strontium to compare results to project remedial goals
- Strontium Method Validation Study (in progress as of June 2022)



Radiological excavation at Phase 1 trench unit



Asphalt and debris management



Building crawlspace survey unit investigations



Soil sampling at Radiological screening yard pad

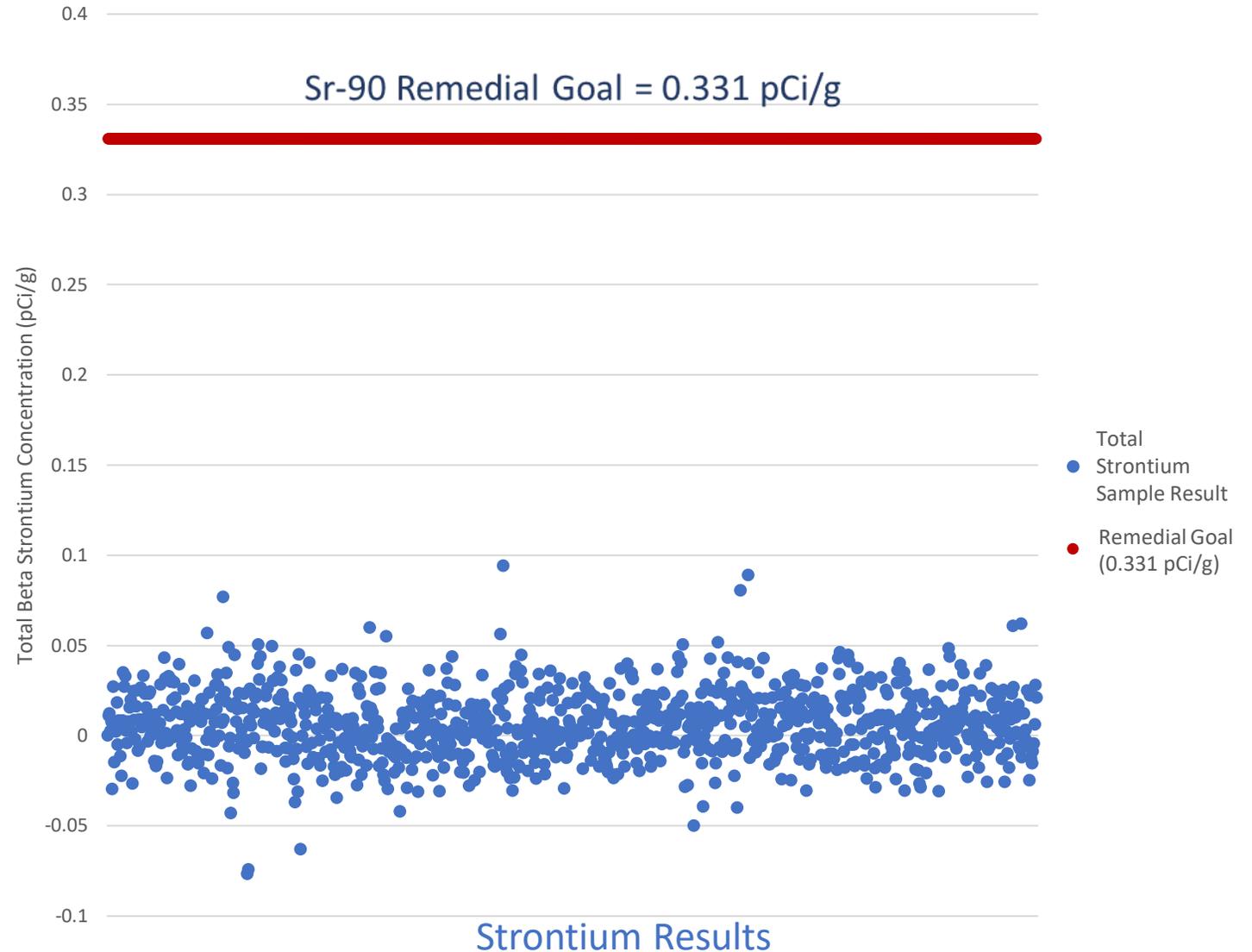
Radiological Retesting Fieldwork for Soil:
excavations, scans, and sampling



Parcel G: Radiological Soil Strontium Results



- Strontium results have been compared to the Remedial Goal for Strontium 90 (Sr-90)
- More than 1,000 projects samples were analyzed
- No samples have exceeded the Navy's Remedial Goal for Sr-90
- A validation study is underway to provide quality control and confidence in results
 - Began in June 2022
 - Results expected by the end of September 2022

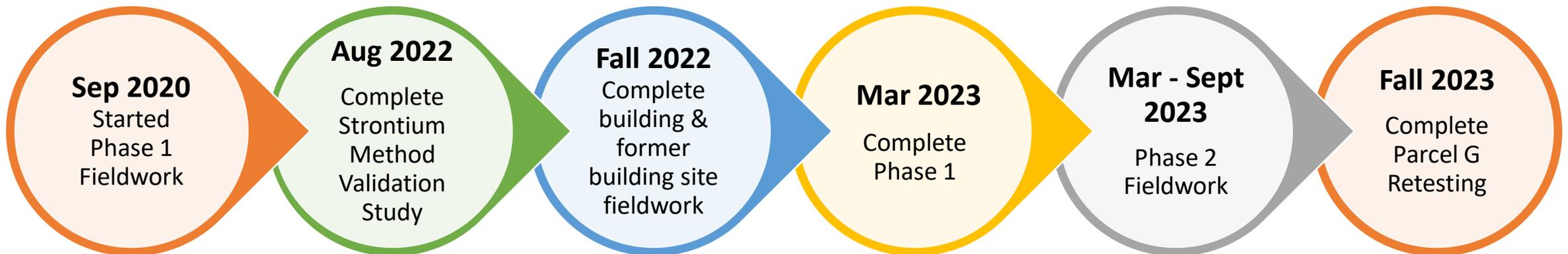


Strontium includes strontium isotopes Sr-89 and Sr-90

Parcel G Radiological Retesting: Next Steps



- **Complete Phase 1 Fieldwork**
 - Excavation of 2 trench units remaining
 - Backfill all 21 Trench Units
- **Complete Strontium Method Validation Study**
 - Results expected by end of September 2022
 - Study will be included in Final Remedial Action Completion Report
- **Complete fieldwork at building and former building sites (Fall 2022)**
 - Complete investigation surveys of 28 survey units
 - Remediate contamination identified in Building 351A and crawlspace
 - Backfill excavated SUs
- **Begin Phase 2 Fieldwork**
 - Begin sampling of 41 trench units (March 2023)
- **Complete Parcel G retesting (Fall 2023)**



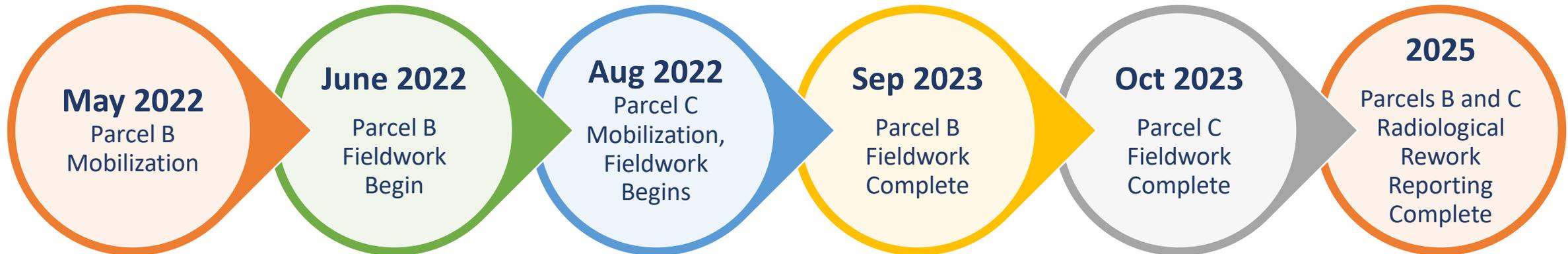


Parcels B and C Radiological Retesting

- **Parcel B Phase 1 Activities**
 - Mobilization, excavations
 - Mobilization began May 2022
 - Trench Unit excavations began July 2022
- **Parcel C Phase 1 Activities**
 - Mobilization, excavations
 - Mobilization begins early August 2022
 - Building 203 survey begins August 2022
 - Trench Unit excavations begin August 2022



Asphalt at TU-186 is flipped to prepare for radiological survey



Radiological Retesting Schedule



Ongoing

- Parcel G
- Parcel B
- Parcel C



Trench Unit Excavations

2022-2023

- Parcel UC-1
- Parcel UC-2
- Parcel UC-3
- Parcel D-2

2022 (Upcoming)

- Parcel D-1
- Parcel E



Surface Scans



Soil Screening

HPNS Cleanup Overview: Cleanup Timeline



Resources for More Information



Contact HPNS Program Management



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Contact HPNS Outreach

for information or to join the HPNS Mailing List

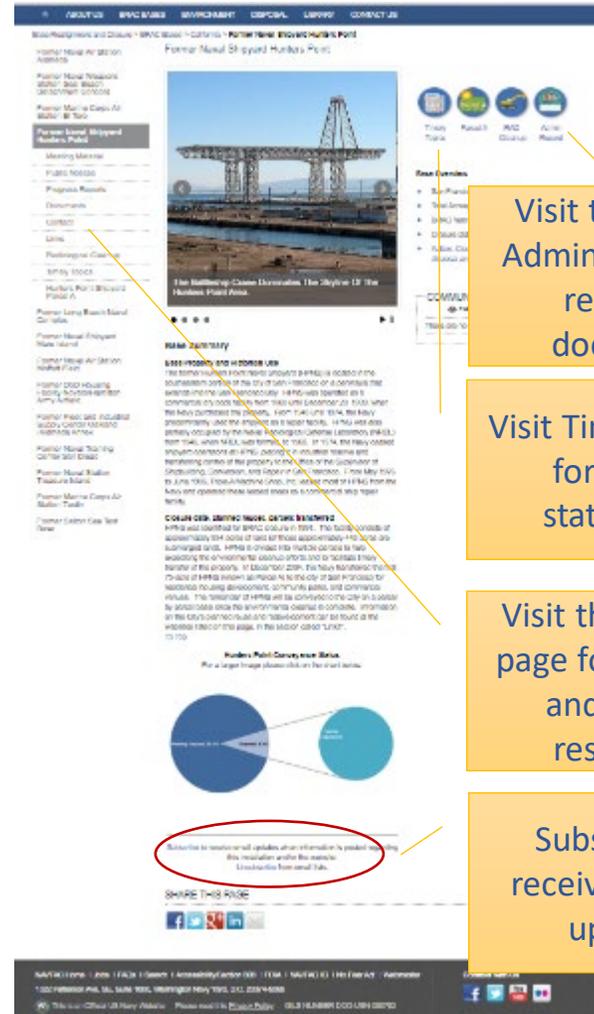


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Visit the Navy's website for more information



Visit the online Admin Record to review a document

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The City of San Francisco Main Library is the location of the local HPNS Administrative Record.

Program documents are available on the Navy's website.

- Use the online Admin Records button or
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HPNS Main Web Page
www.bracpmo.navy.mil/hpnsc

HPNS Radiological Program
www.bracpmo.navy.mil/hpnsrc