

Hunters Point Naval Shipyard Environmental Program

Fieldwork Update: Parcels E, E-2, and G

San Francisco Shipyard Community Meeting January 2021



Photo credit: Eric Vanderpool

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



HPNS Cleanup Overview: Parcel Historical Use



HPNS Parcel Map

Parcel A: residential & administrative; transferred to SFRA in 2004

Parcel B: ship repair & maintenance

Parcel C: ship repair & radiological research

Parcel D: ship repair & maintenance; radiological research

Parcel E: industrial operations & radiological research

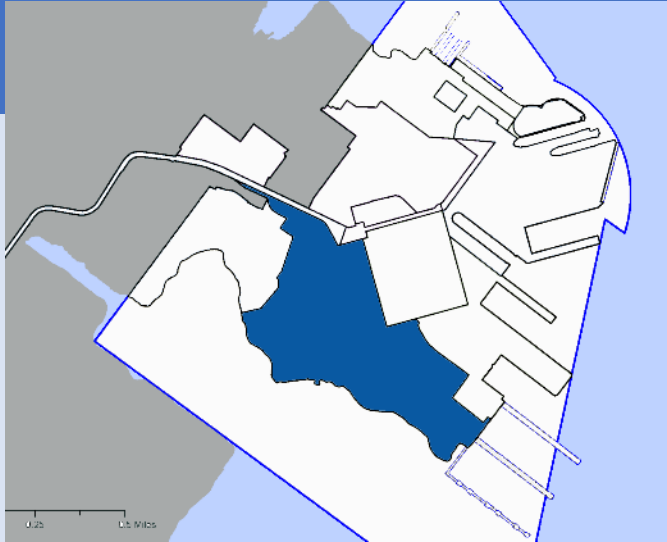
Parcel E-2: former HPNS landfill

Parcel F: offshore area in San Francisco Bay

Parcel G: ship repair & maintenance

UC-1, UC-2, UC-3: former utility corridors

Parcel E Update



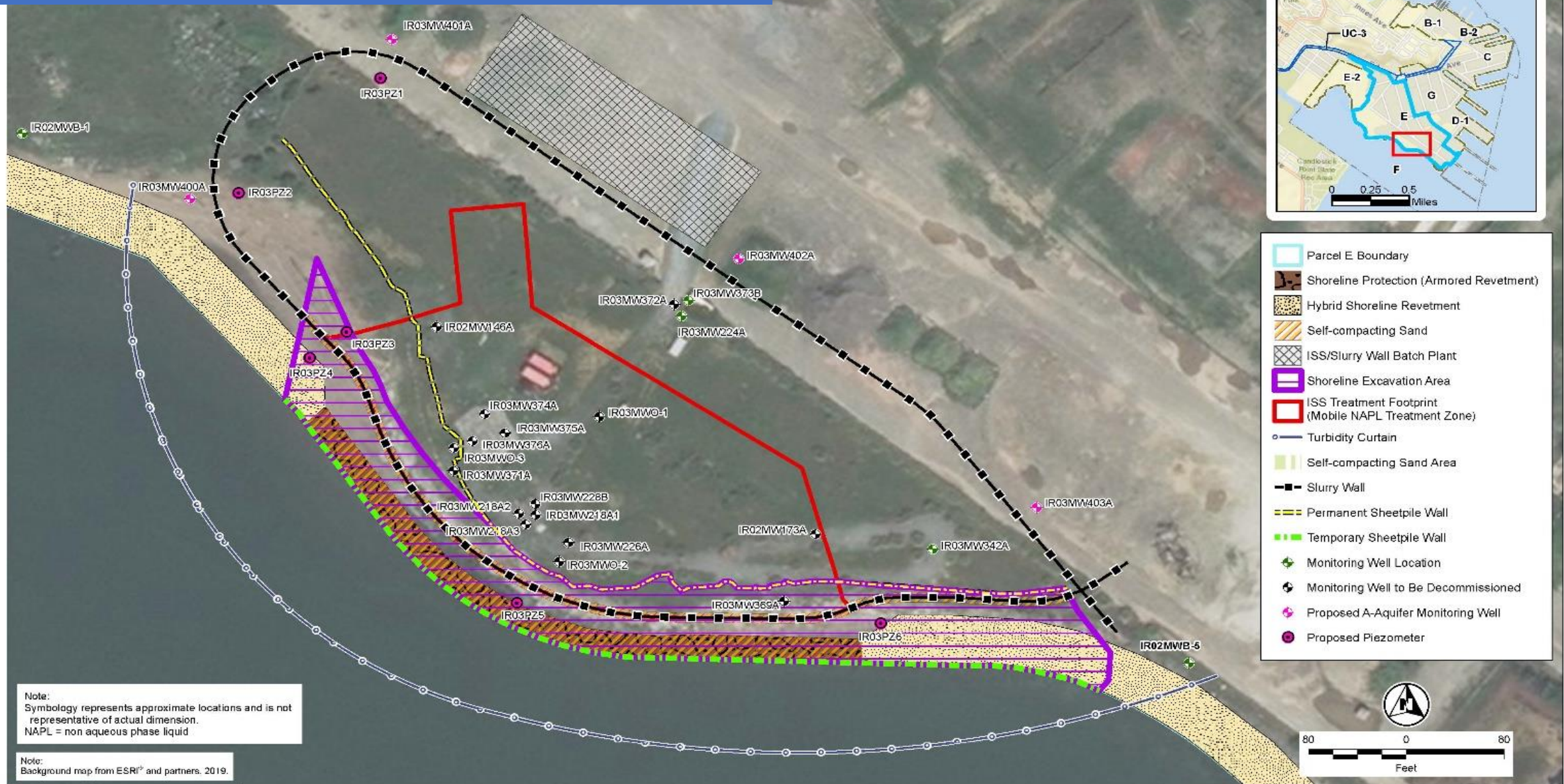
PARCEL OVERVIEW

- Historical Use:
 - Industrial operations
 - Radiological research

CLEANUP STATUS

- Current Activities
 - Relocate burrowing owls from IR-03 site (January 2021)
 - Begin fieldwork to treat IR-03 contamination (February 2021)
 - Additional fieldwork for excavations and shoreline protection elements paused on remainder of Parcel E due to recent change in field conditions
- Next steps
 - Construct groundwater containment slurry wall and shoreline protection features at IR-03
 - Re-evaluate excavations and shoreline protection elements on remainder of Parcel E; develop path forward with contractor

Parcel E: IR-03 Treatment Area



Remedial Action Work Plan
Parcel E Remedial Action, Phase 2
Hunters Point Naval Shipyard, San Francisco, California

Figure 5
IR-03 Solidification Stabilization Treatment Plan

Parcel E: IR-03 Burrowing Owl Locations



- Burrowing Owl (Individual)
- Burrowing Owl (Burrow)
- Recommended Buffer (ft)
- Survey Area
- Parcel F Boundary (Including Piers)
- Other HPNS Parcel Boundaries



1 inch = 200 feet
0 200 Feet

FIGURE 1
Field Observations
Week of 11/30/2020
Biological Monitoring on
Hunter's Point Parcel E During CERCLA
Hunter's Point Naval Shipyard,
San Francisco, CA



Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar, GeoGraphics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Parcel E (IR-03): Equipment Mobilization and Set-up



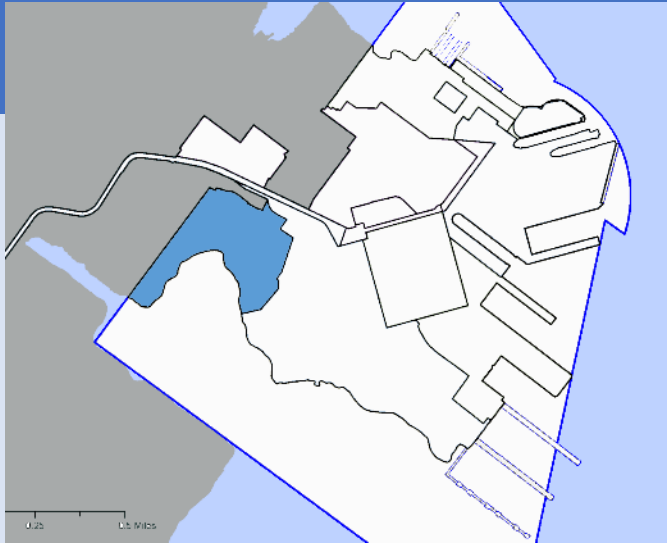
Parcel E: Chemical Excavations and Shoreline Protection Features





Parcel E: Slurry Wall, Dust Management, and Air Monitoring

Parcel E-2 Update



PARCEL OVERVIEW

- Historical Use:
 - HPNS landfill

CLEANUP STATUS

- Current Activities
 - Continue construction of soil cover (sitewide)
 - Delivery of clean soil by barge began in late December
 - Barge deliveries planned through mid-February 2021
- Next steps
 - Landfill gas collection system
 - Vegetative layer
 - Tidal and freshwater wetlands construction



Parcel E-2: Barge Delivery and Off-load

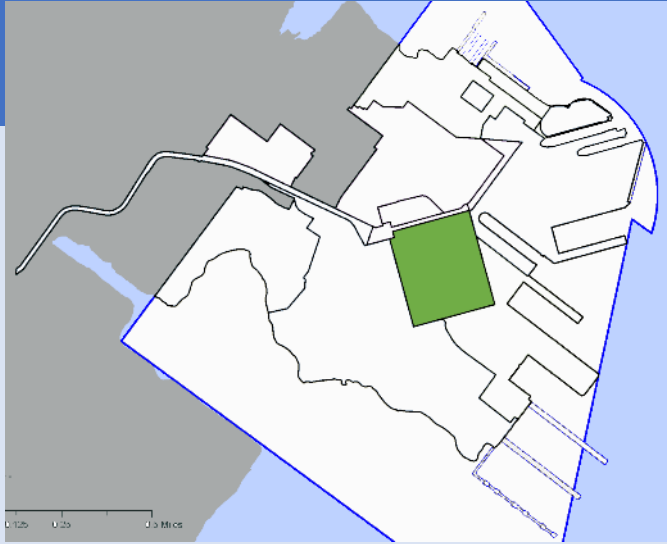


Parcel E-2: Site Delivery



Parcel E-2: Air Monitoring Station, Dust Control, and Road Management

Parcel G Update



PARCEL OVERVIEW

- Historical Use:
 - Ship repair and maintenance
 - Radiological research

CLEANUP STATUS

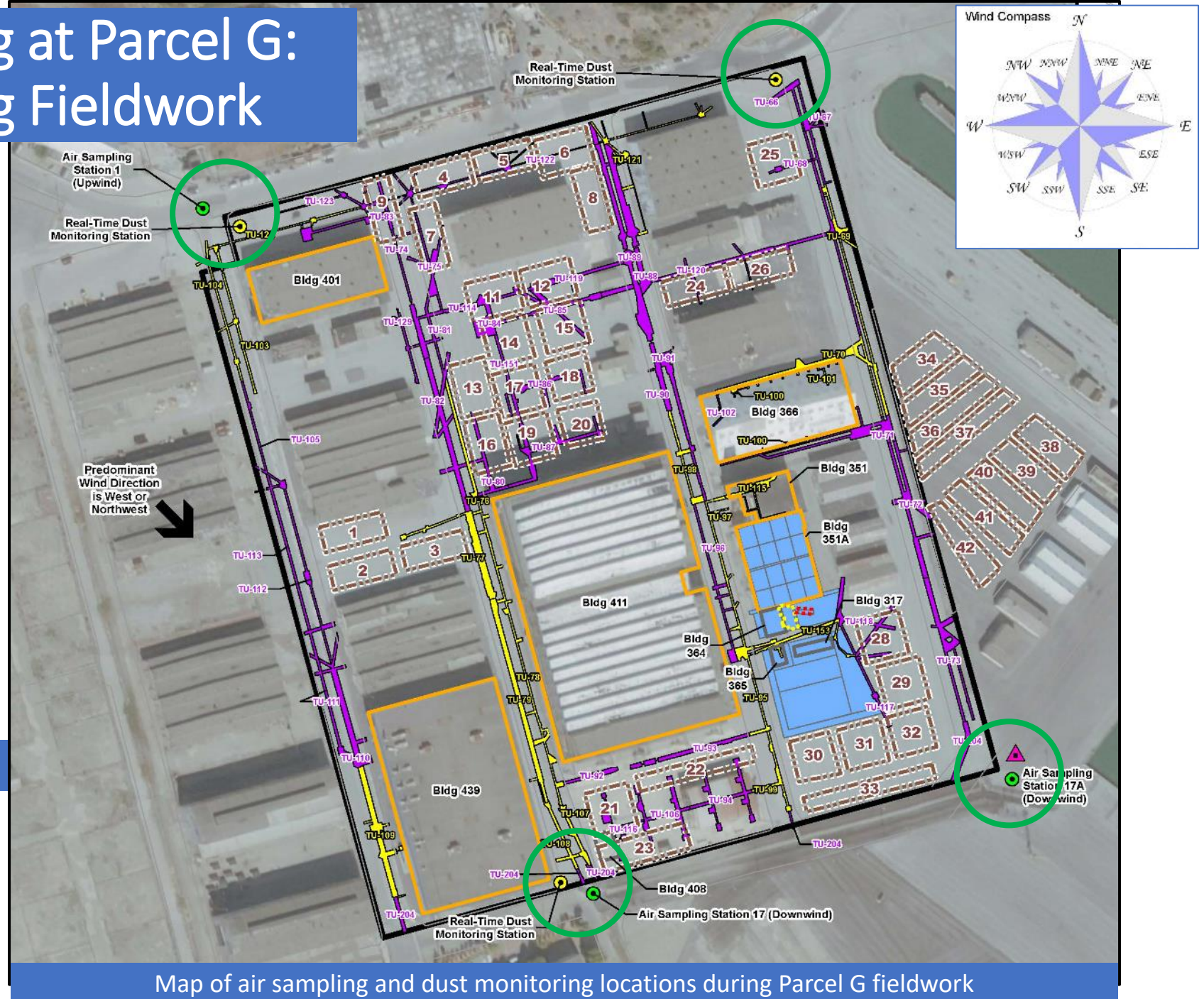
- Current Activities
 - Groundwater monitoring ongoing
 - Radiological retesting, scanning, and sampling
 - Phase 1 Trench Unit excavations began September 2020
- Next Steps
 - Complete Phase 1 Trench Units (November 2021)
 - Begin Phase 2 Trench Units (October 2021)
 - Begin Former Building Site & Crawl Space Area Survey Units (Aug 2021)
 - Complete Parcel G Retesting (May 2022)

Radiological Retesting at Parcel G: Air Monitoring During Fieldwork

- Dust and particulates are monitored at all active construction sites on HPNS
- Air sampling and dust monitoring stations are located across the site
- Predominant wind direction is from the West or Northwest, away from Bayview Hunters Point

Legend

- Phase 1 Trench Units (TUs)
- Phase 2 TUs
- Former Building Site & Crawl Space Area Survey Units (SUs)



Map of air sampling and dust monitoring locations during Parcel G fieldwork



Parcel G: Excavations and Soil Screening



Parcel G: Radiological Surveys, Air Monitoring, and Winter Conditions

Environmental Cleanup Status

The CERCLA Cleanup Process

Preliminary Assessment /
Site Inspection (PA/SI)



Remedial Investigation /
Feasibility Study (RI/FS)



Proposed Plan /
Public Comment Period



Record of Decision (ROD)



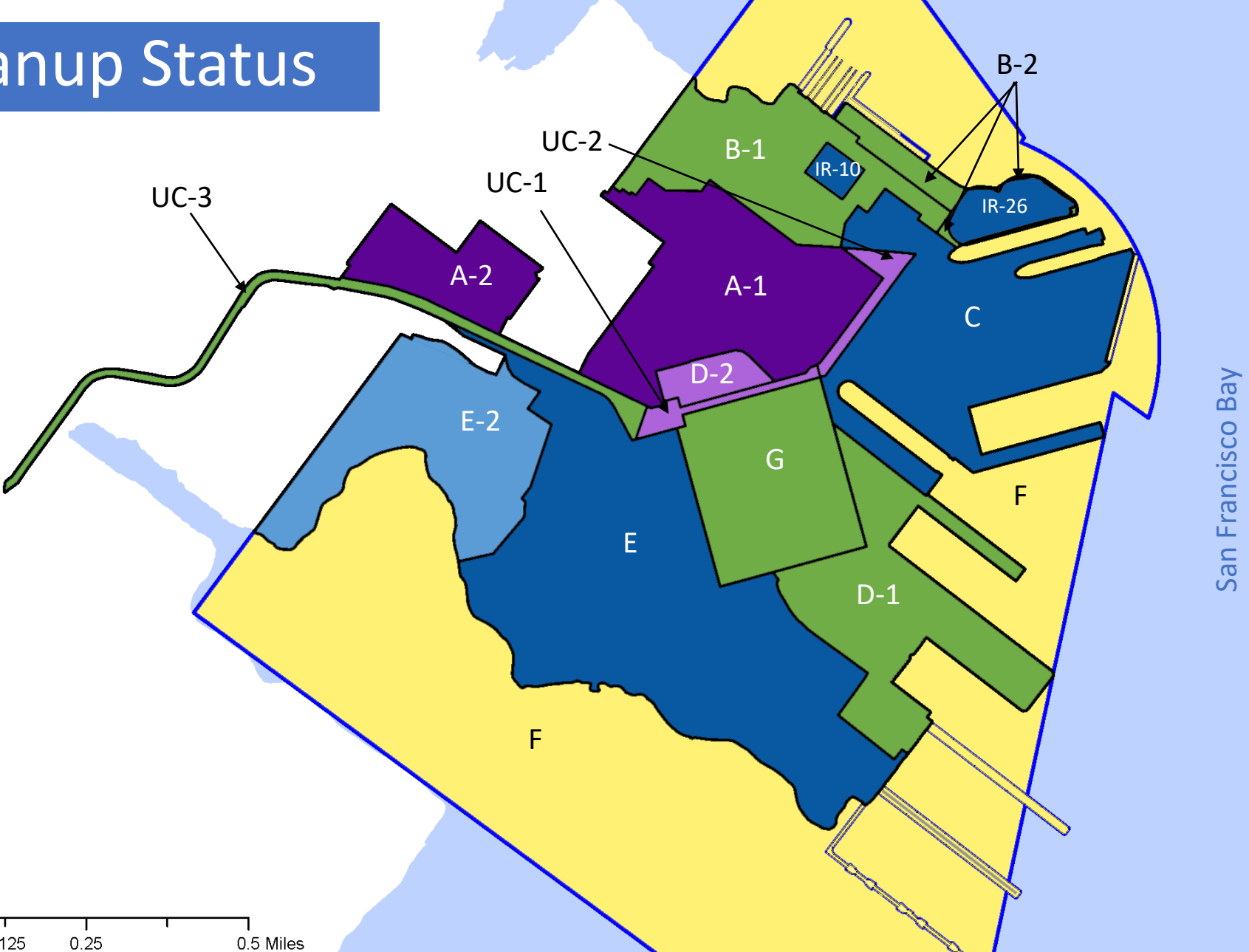
Remedial Design /
Remedial Action (RD/RA)



Operation & Maintenance /
Land Use & Institutional Controls



Site Closure /
Transfer to City of San Francisco



Transferred,
no further action

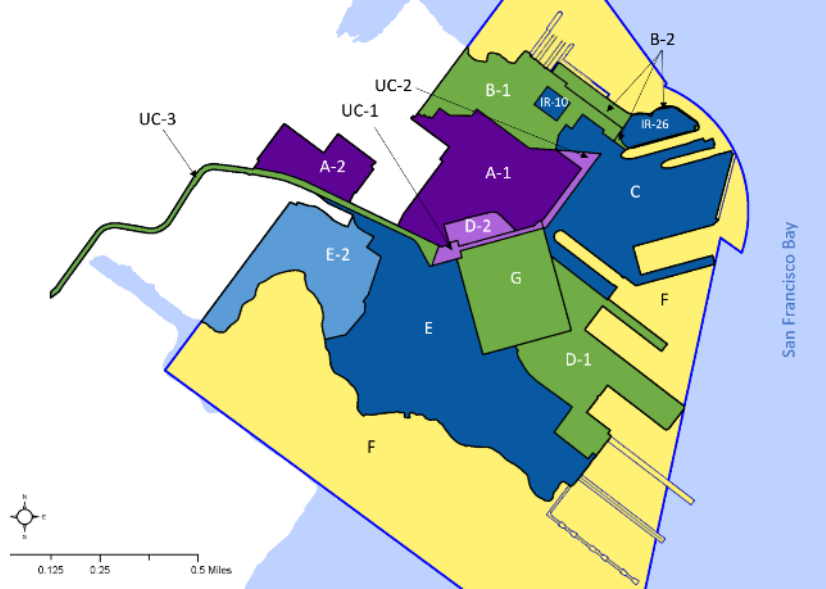
Transferred,
retesting pending

RA complete,
retesting pending

RA ongoing,
retesting pending

RA ongoing,
no retesting

ROD pending,
no retesting



Radiological Retesting Schedule



Parcel G

- First parcel retested
- Guides future work plans
- Fieldwork through May 2022



Trench Unit Excavations

After UC's and D-2 complete

- Parcel B
- Parcel C
- Parcel D-1
- Parcel E



Surface Scans

After G complete

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

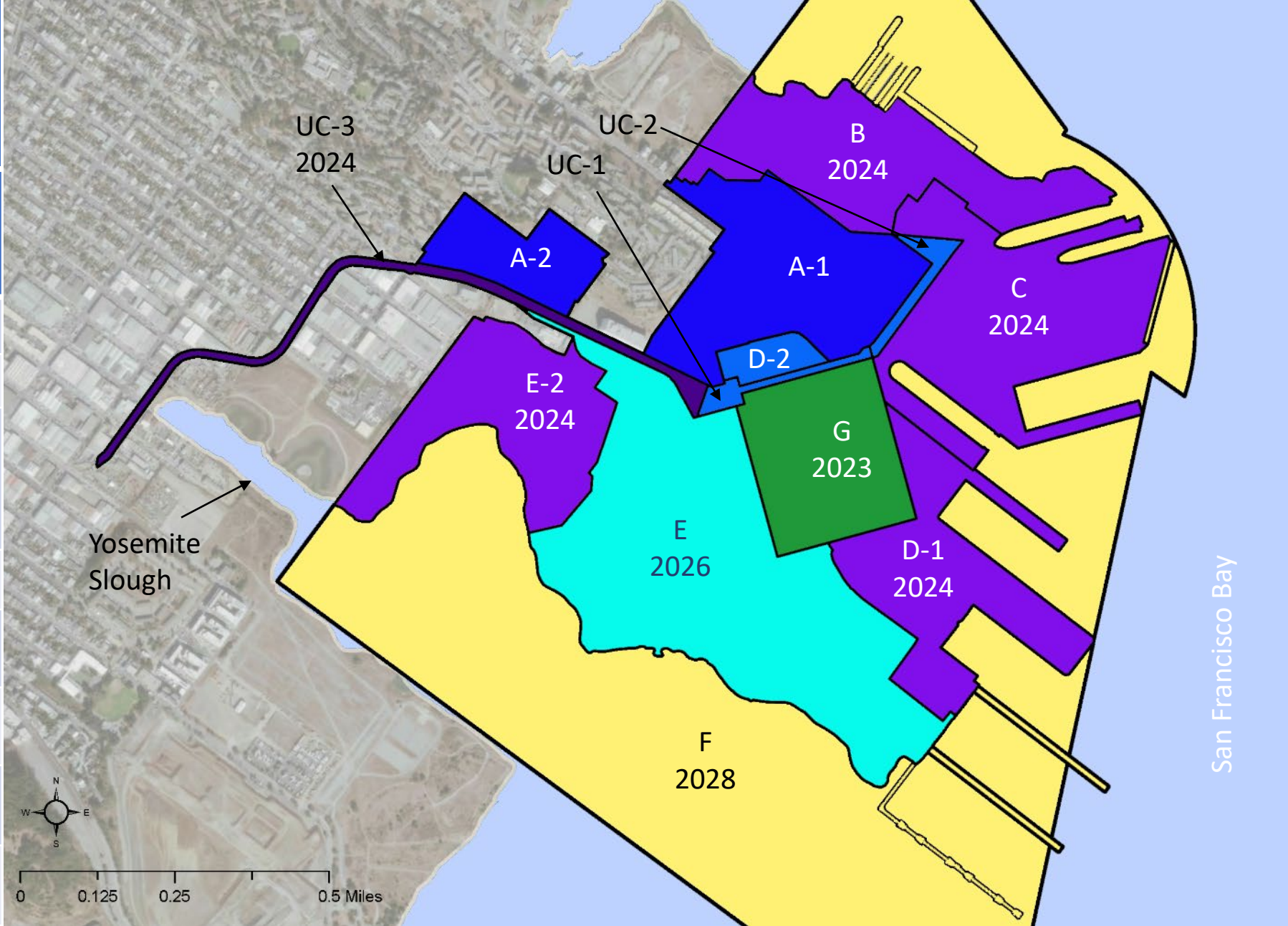


Soil Screening

Environmental Cleanup Complete

(January 2021)

| Parcel <small>* radiological retesting pending</small> | Calendar Year <small>(notional)</small> | CERCLA Activities Pending |
|---|--|--|
| G* | Oct 2023 | cleanup complete |
| UC-3* | Feb 2024 | cleanup complete |
| B* <small>(inclusive)</small> | Aug 2024 | soil vapor treatment (IR-10); groundwater treatment (IR-26) |
| D-1* | Nov 2024 | cleanup complete |
| E-2 | Nov 2024 | Remedial Action completion |
| C* | Dec 2024 | groundwater treatment |
| E* | Jul 2026 | Remedial Action completion |
| F | Sep 2028 | Remedial Action completion |



| | | | | | | | |
|-----------------------------------|-----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Transferred, no further action | Transferred, retesting pending | 2023 (2nd half) | 2024 (1st half) | 2024 (2nd half) | 2025 (2nd half) | 2026 (2nd half) | 2028 (2nd half) |
|-----------------------------------|-----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|

Resources for More Information



Contact HPNS Program Management



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Contact the Community Technical Liaison



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Contact HPNS Outreach

for information or to join the HPNS Mailing List

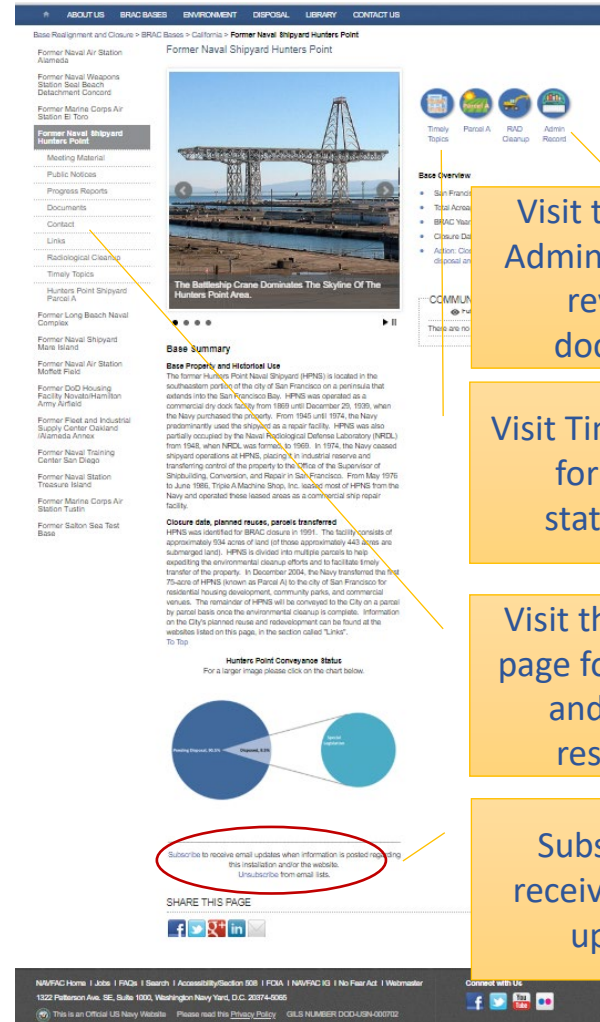


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Visit the Navy's website for more information



Visit the online
Admin Record to
review a
document

Visit Timely Topics
for recent
statements

Visit the Contact
page for program
and health
resources

Subscribe to
receive website
updates

Due to COVID-19 restrictions, the City of San Francisco Main Library is currently closed. This is the location of the local HPNS Administrative Record.

During this time, please view documents on the Navy's website.

You may use the online Admin Records button or scroll through the Documents page.

HPNS Main Web Page
www.bracpmo.navy.mil/hpns

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

Resource for more information: Residents Group

Since March 2019, a group of San Francisco Shipyard homeowners has been meeting with the Navy periodically to learn about what is going on with the environmental cleanup at HPNS.

- Offer an additional resource for information on HPNS cleanup
- Available to all owners and renters in the SF Shipyard community
- Post meetings, announcements, and program information on **SF Shipyard Residents Facebook Group** page
- Continue to meet with Navy team to understand activities and share community comments



John Choi

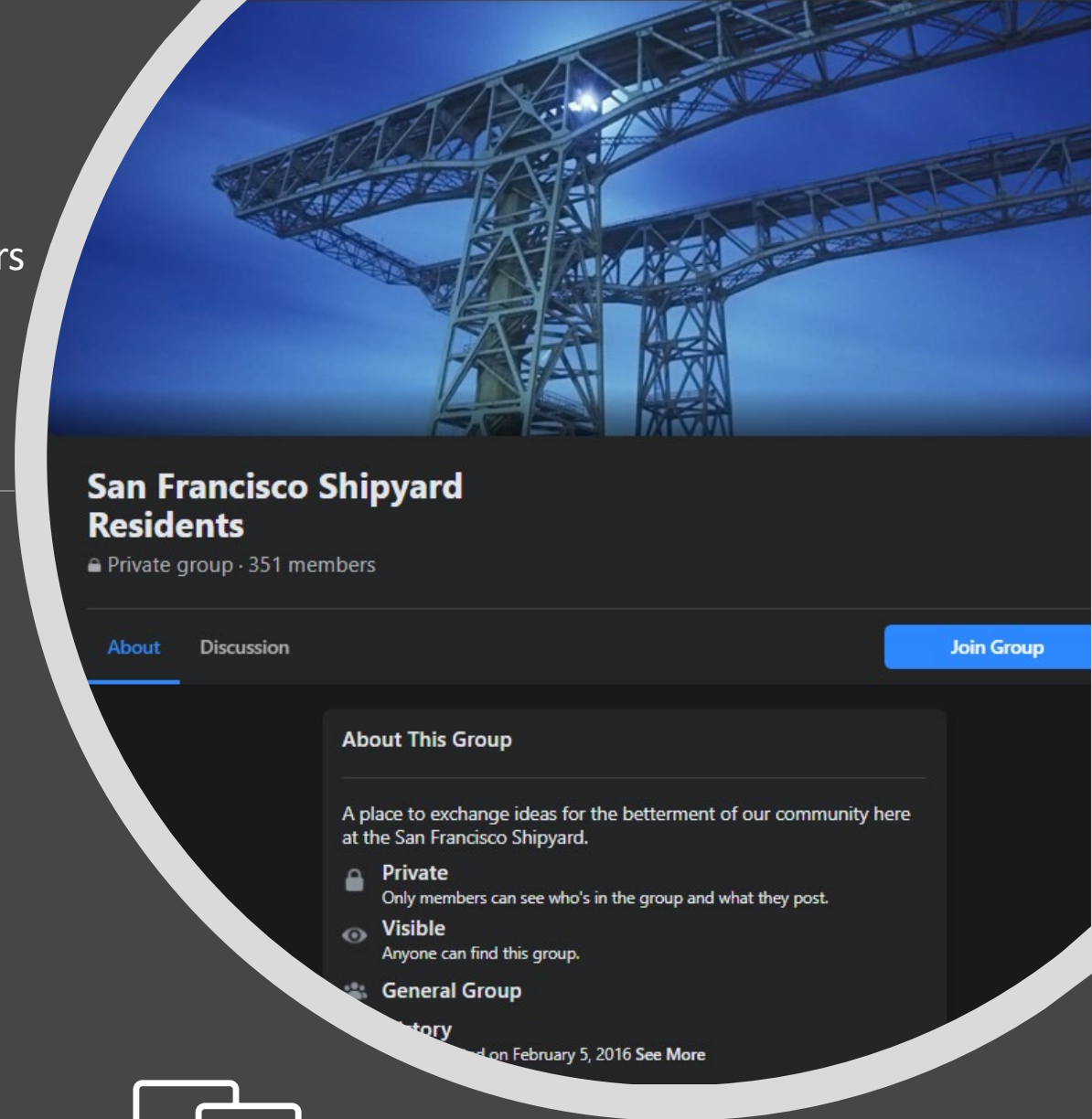
Jason Fried

Andrew Kaplan

Linda Parker-Pennington

Greg Pennington

Eric Vanderpool



Direct message via SF Shipyard Residents FB Group