



Hunters Point Naval Shipyard Environmental Cleanup Program Update

Hunters Point Shipyard Citizens Advisory Committee
Environmental & Reuse Subcommittee Meeting

April 27, 2026

Michael Pound – BRAC Environmental Coordinator

Agenda

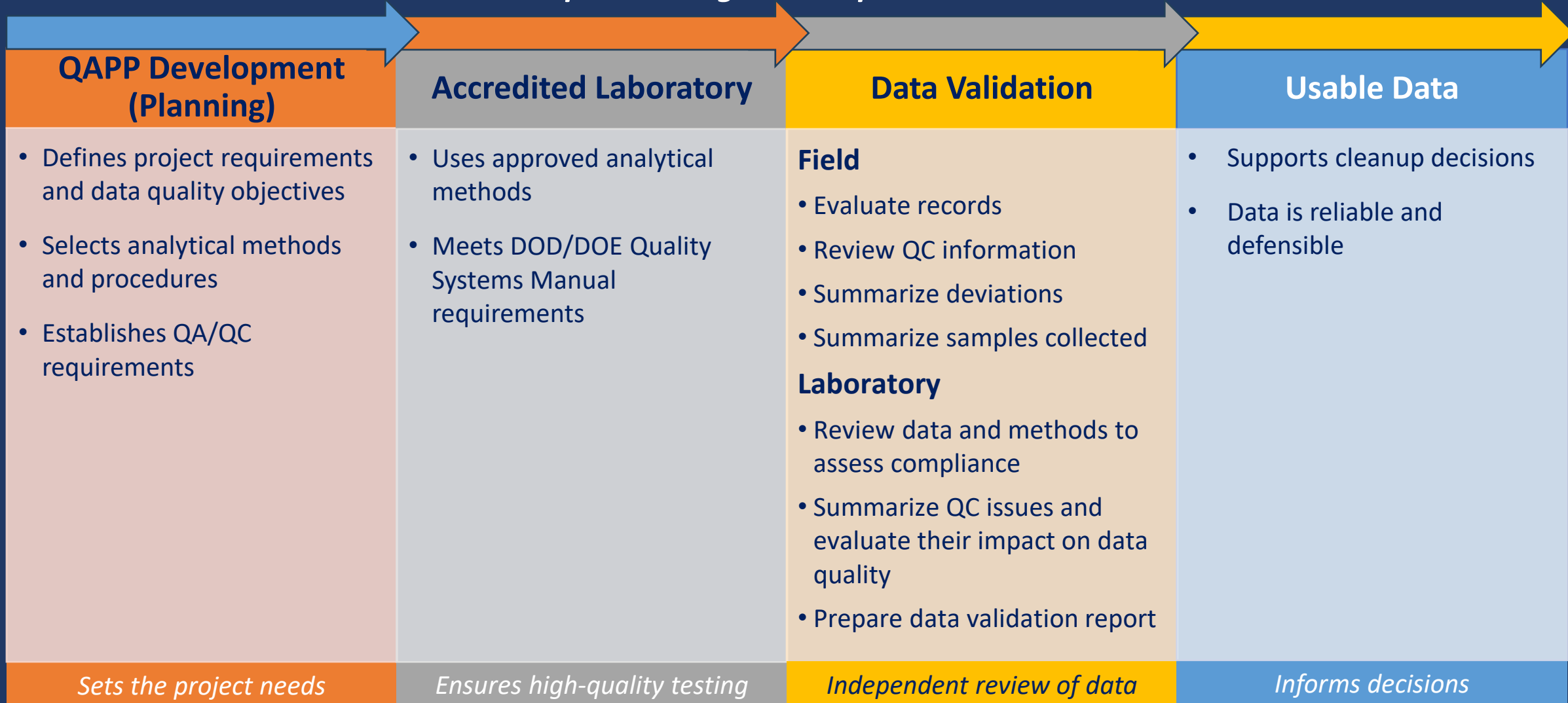
Topic
• Introductions
• Laboratory Data Quality Review
• Parcel C Dry Dock 2 Repair Update
• Parcel G Building Demolition Fieldwork Update
• Community Involvement Plan Update and Survey
• Upcoming Navy Outreach Activities
• Contacts
• Questions

Laboratory Data Quality Review

Routine Review Process • Early Update to Community

Ensuring Usability of Data for Decision-making

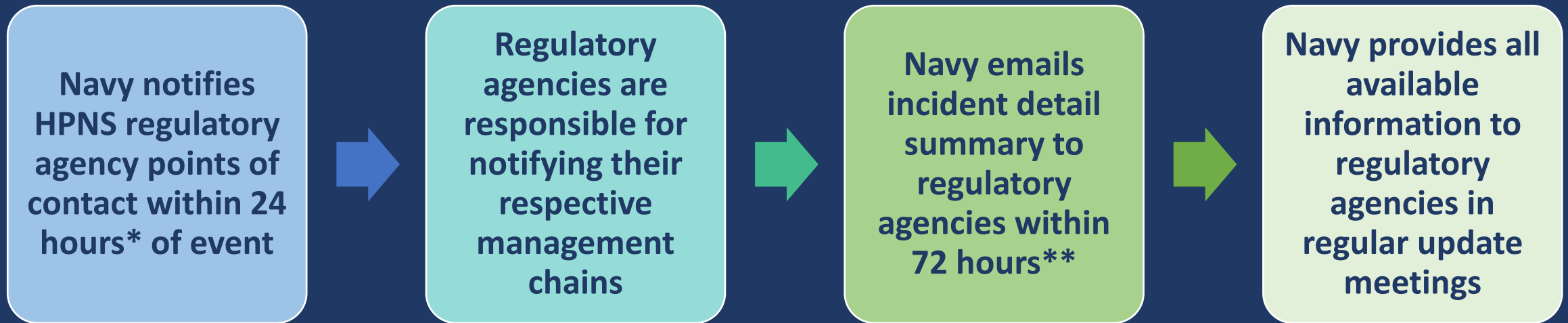
All steps work together to produce usable data



Data Review: Key Points

- Data validation is standard part of data evaluation process to ensure defensible data is used in the decision-making process
- On March 18, 2026, the Navy and Contractor determined that there is a potential data quality concern at one laboratory through the data validation process
- Data validation issues are not uncommon, process are set up to catch them and make necessary corrections
- For HPNS, the Notification Protocol was immediately initiated
- The Navy and regulatory agencies have reviewed the data and agree there is no indication of risk to public health
- We are early in the evaluation process; updates will be shared as more information becomes available

HPNS Notification Timeline Protocol



*24 hours = next business day

**72 hours = 3 business days

Notification Timeline

March 18, 2026

Identification of Potential Concerns

Navy and contractor determined there are potential laboratory quality issues

March 19, 2026

Navy Initiates Notification Process

Navy notifies regulatory agencies of potential laboratory quality issues

April 2 & April 21, 2026

Navy Continues Notification Process

Navy shares potential data quality issues and next steps with City of San Francisco (SFDPH and OCII) and congressional offices

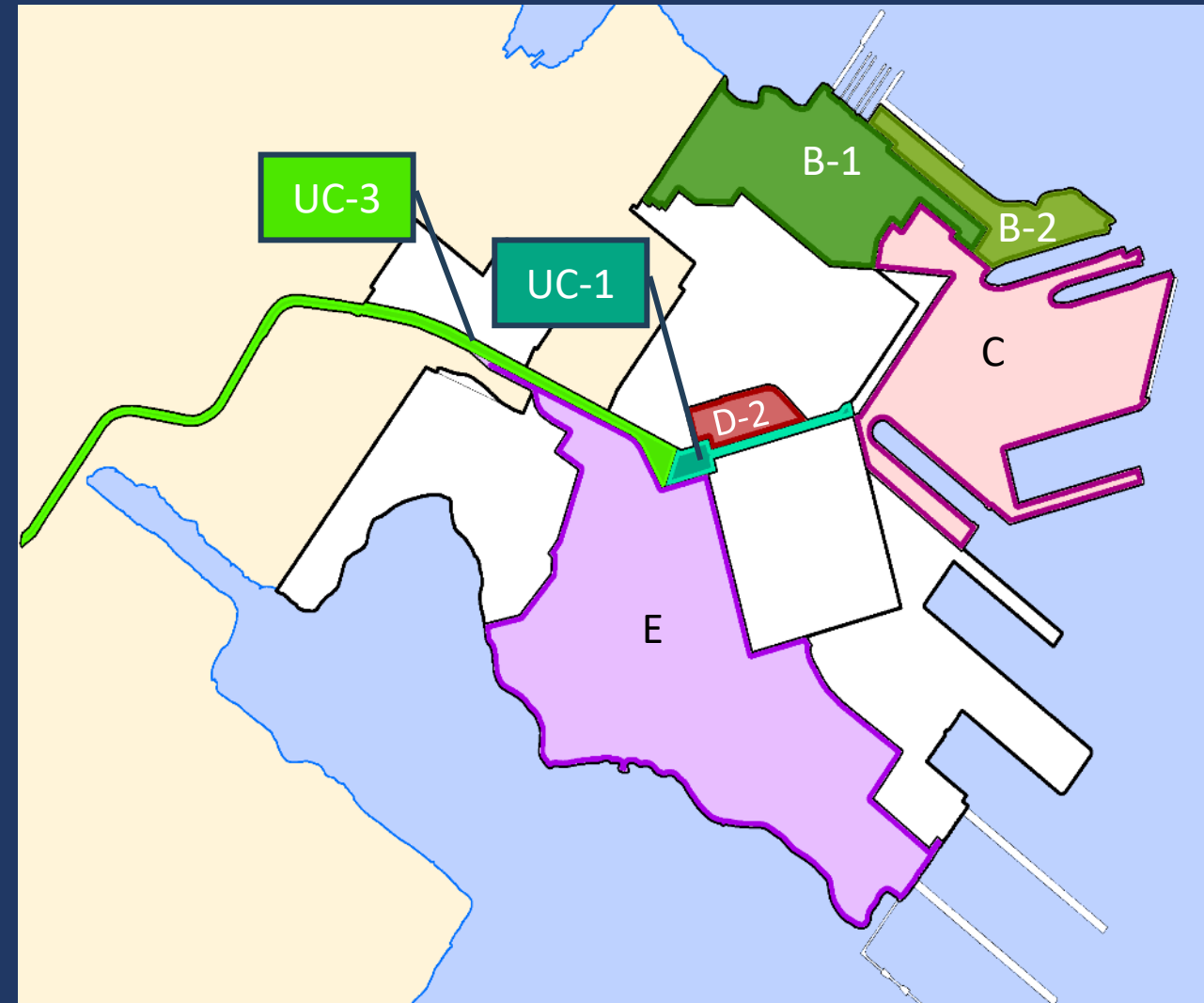
April 27, 2026

Navy Shares Information with Community

Navy presents initial information at HPSCAC E&R Subcommittee Meeting

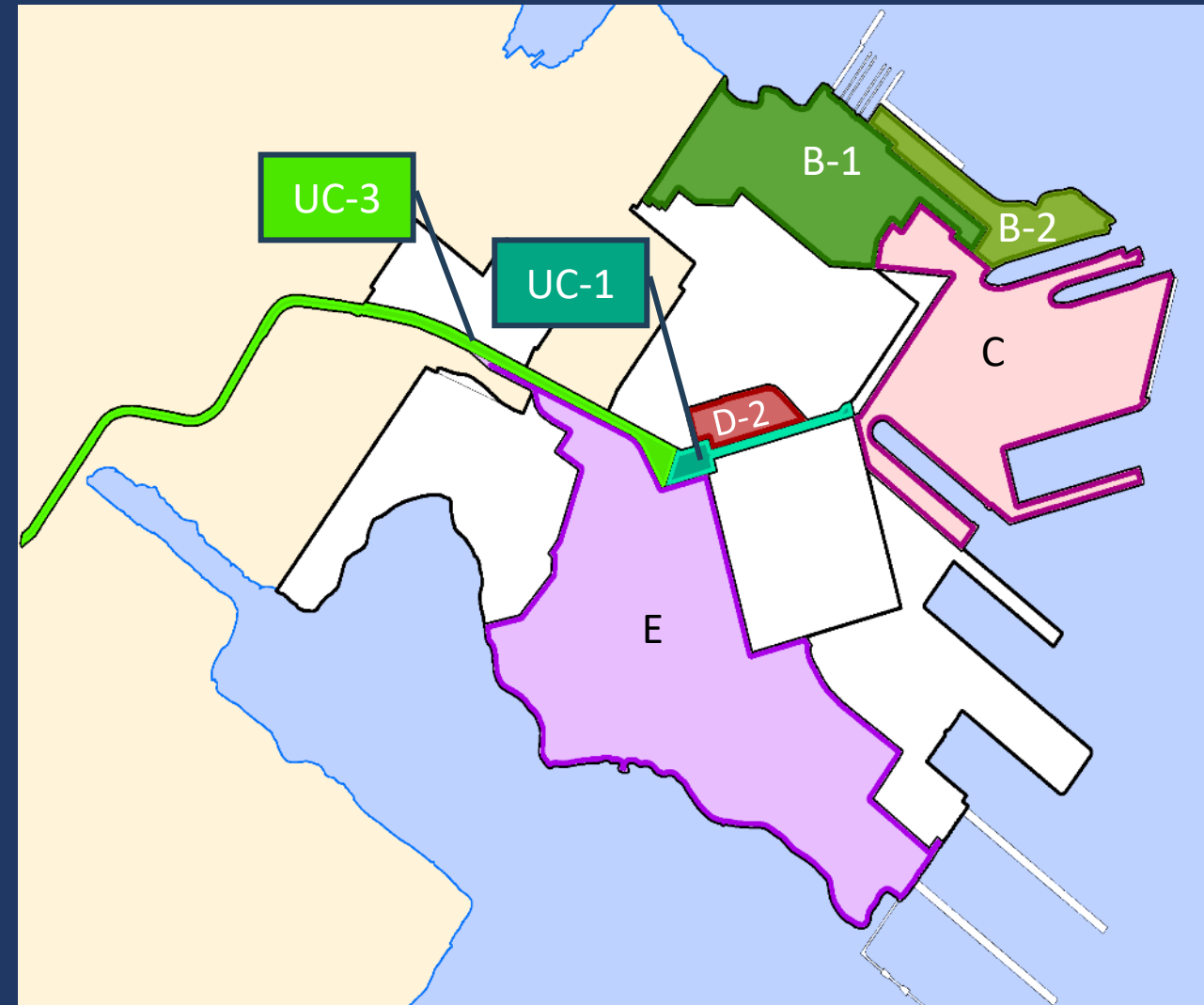
Soil Sample Impacts

- 732 of 4551 soil samples (16%) samples across multiple project areas
 - Radiological rework: Parcels B, C, D-2, UC-1, UC-3
 - Parcel E shoreline (not related to radiological rework)
- 714 of the soil samples are available in the sample archive for reanalysis
 - These samples will be reanalyzed by a different laboratory at no cost to the Government



Air Sample Impacts

- All air samples analyzed by this one laboratory at these specific parcels are affected
- Air samples are collected on filters
- Air filters are consumed by the processing required to create the sample for the analytical method
- Other real-time and on-site lines of evidence are collected per the regulatory agency approved work plan to support health protectiveness for the site



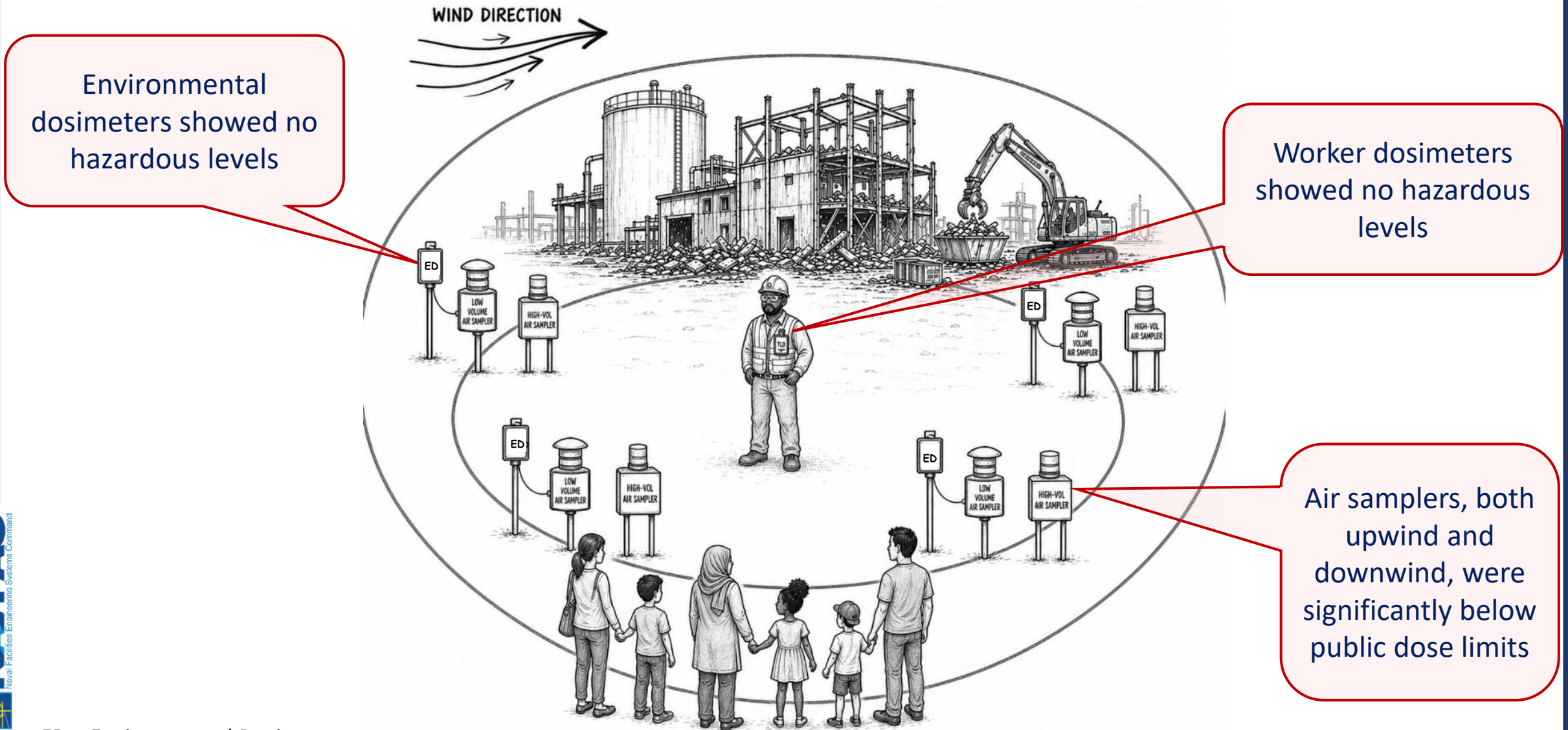
Multilayered program ongoing to ensure health protectiveness

Primary pathway of exposure is through dust, therefore the Navy has a comprehensive dust management program

- Dust management protocol
 - Realtime PM10 (dust) air samplers – data for all parcels is posted to HPNS website every two weeks
- On-site air sampling and filter analysis
 - On-site screening method to evaluate whether alpha or beta are a health concern
 - Each air filter runs through a detector to scan for alpha & beta (on-site)
 - Ensures workers and public do not have inhalation hazard from radioactivity onsite
- Environmental dosimeters
- Personnel dosimeters
- Internal and external quality control and review; agency reviews

Radiological Technical Advisor Analysis of Data

Multiple Layers of Protection for Workers & Community (general process)



ED = Environmental Dosimeters

<https://www.epa.gov/radnet/radnet-near-real-time-air-data>

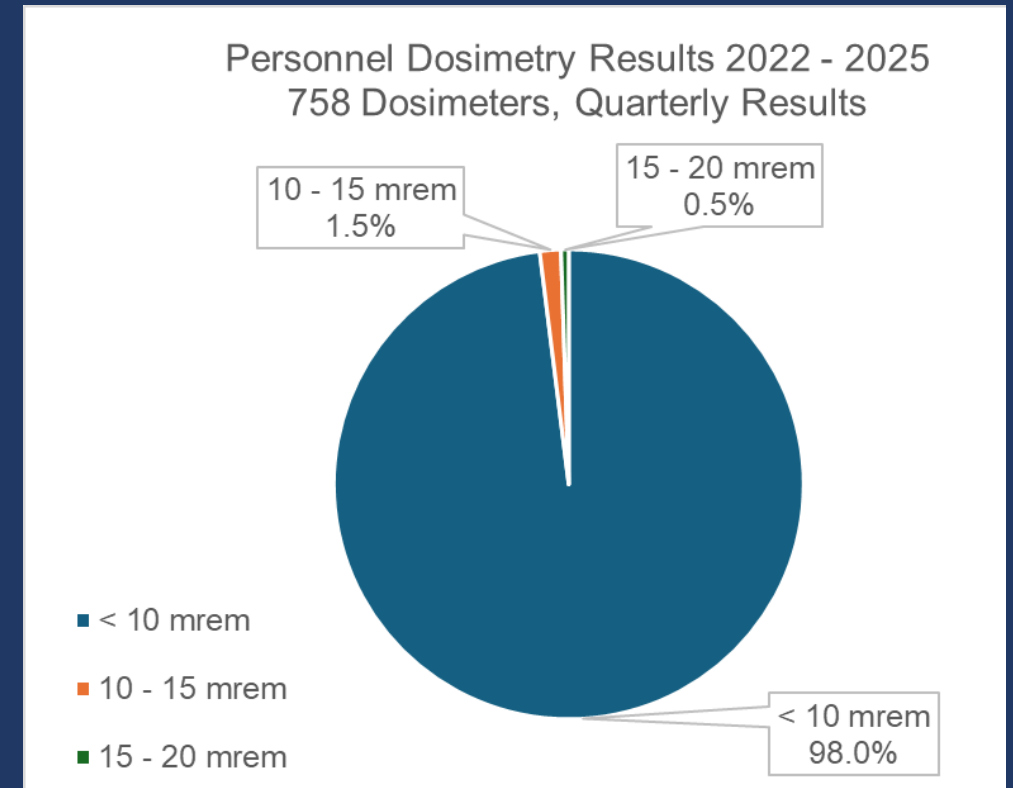
4/27/2026

HPSCAC E&R Subcommittee Meeting

12

Personnel (Worker) Monitoring using Radiation Dosimeters (External Gamma)

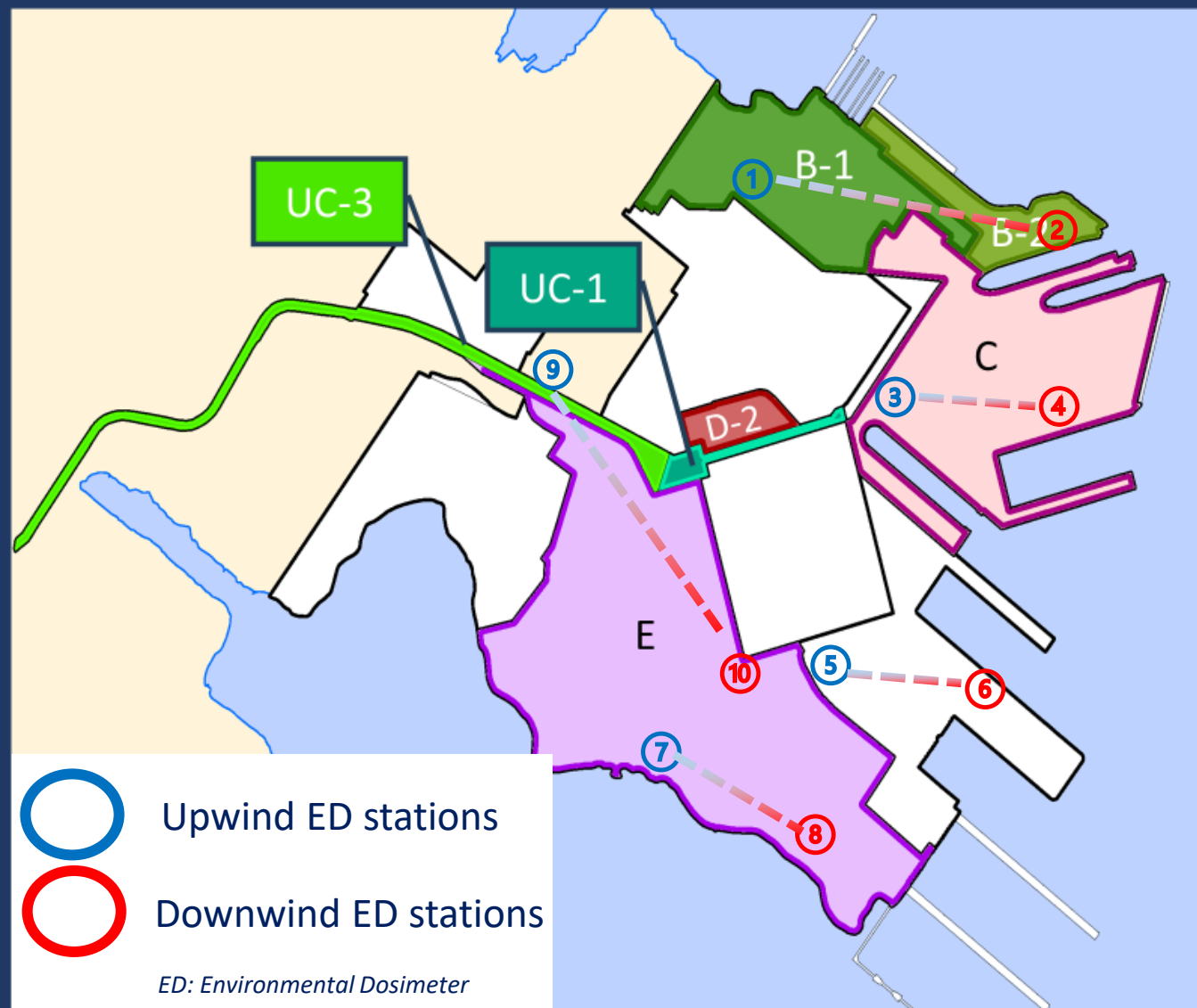
- Occupational limit is ~1250 mrem per quarter (5 rem / year)
 - Maximum measured dose is < 2% of quarterly dose limit
- From July 1, 2022 – January 1, 2026
 - 758 dosimeter readings were taken
- Quarterly results
 - 98% of dosimeters had no detectable radiation measured
 - 743 out of 758 dosimeters
 - 1.5% had dose reported between 10-15 mrem per quarter
 - <1% had dose reported between 15-20 mrem



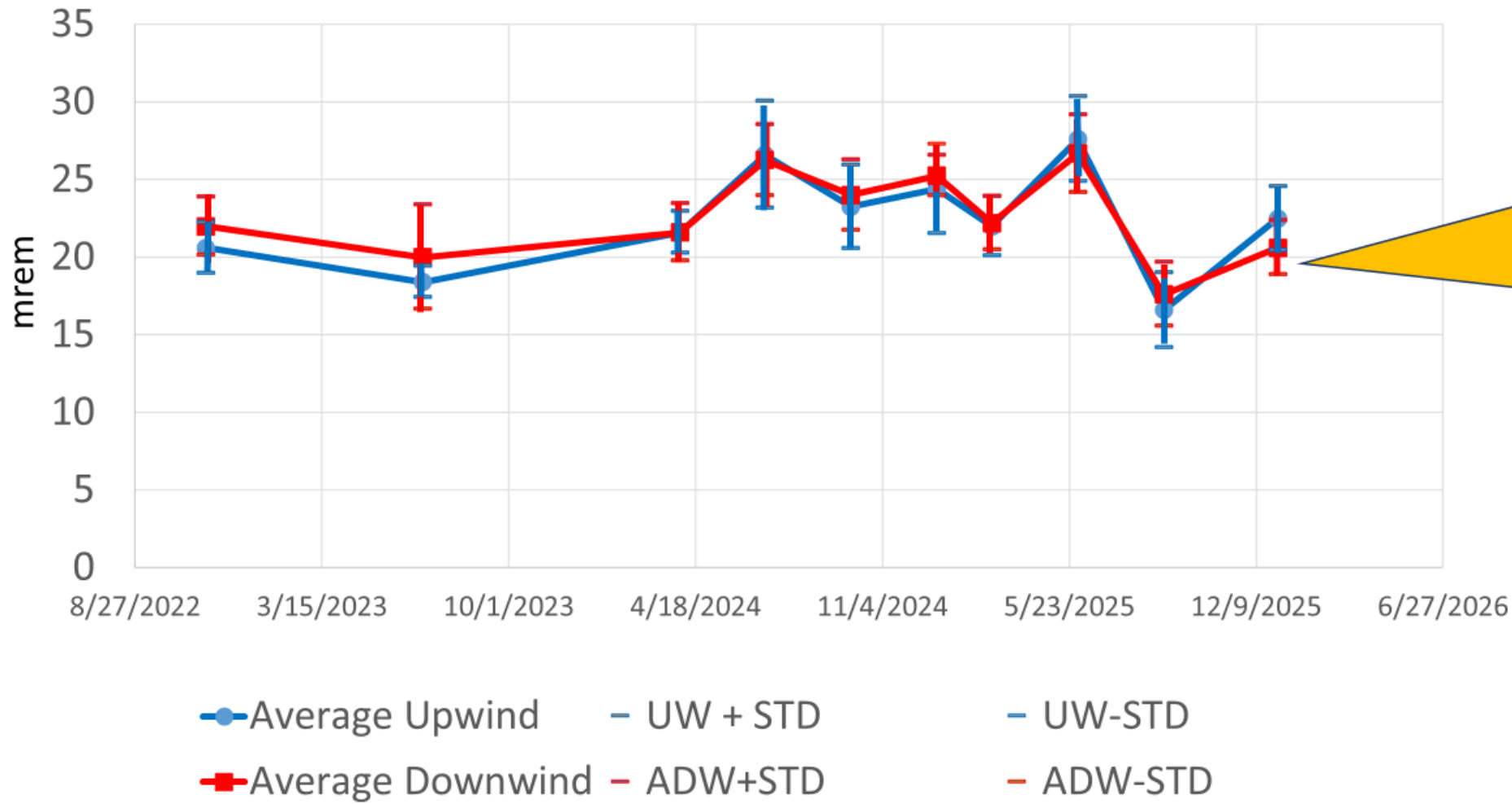
HPNS External Gamma Monitoring

Environmental dosimeter stations are placed around the site with upwind and downwind to serve as controls:

- Parcel B Locations 1 & 2
- Parcel C, Locations 3 & 4
- Parcel D-1, Locations 5 & 6
- Parcel E, Locations 7 & 8
- Parcel D-2, Locations 9 & 10



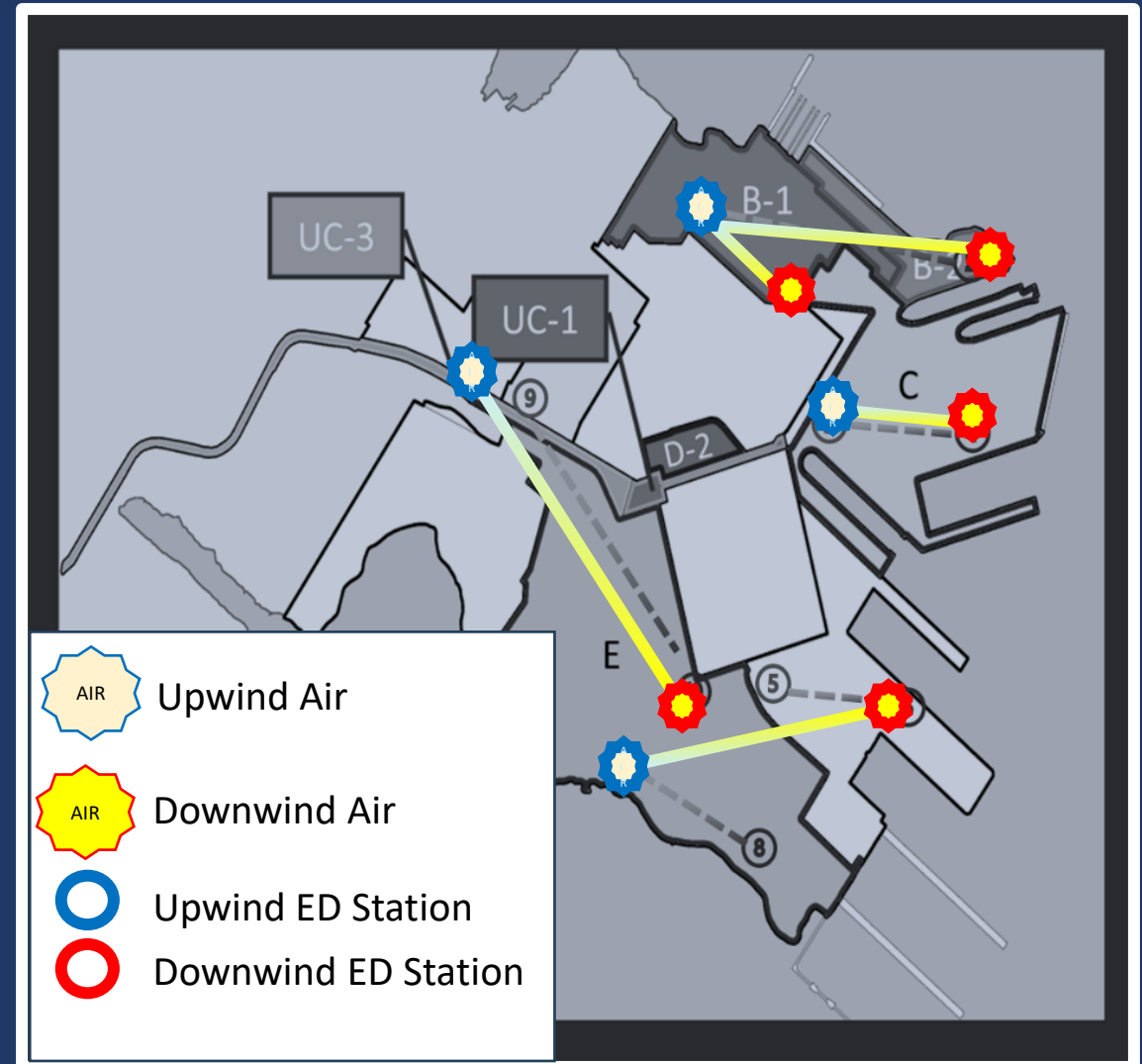
HPNS Environmental Monitoring Dosimeter Results



There is no difference in radiation measurements between the upwind and downwind locations across the site

Air Monitoring: Locations and Overview

- Air monitoring stations are near environmental dosimeter stations
- Before air filters are sent offsite, they are scanned as an initial health and safety check:
 - Counted onsite for gross alpha and beta
 - Compared to NRC limits
- Limits assume 100% occupancy (50 mrem)
- Review required by Contractor if alpha or beta concentration are 10% of the limits



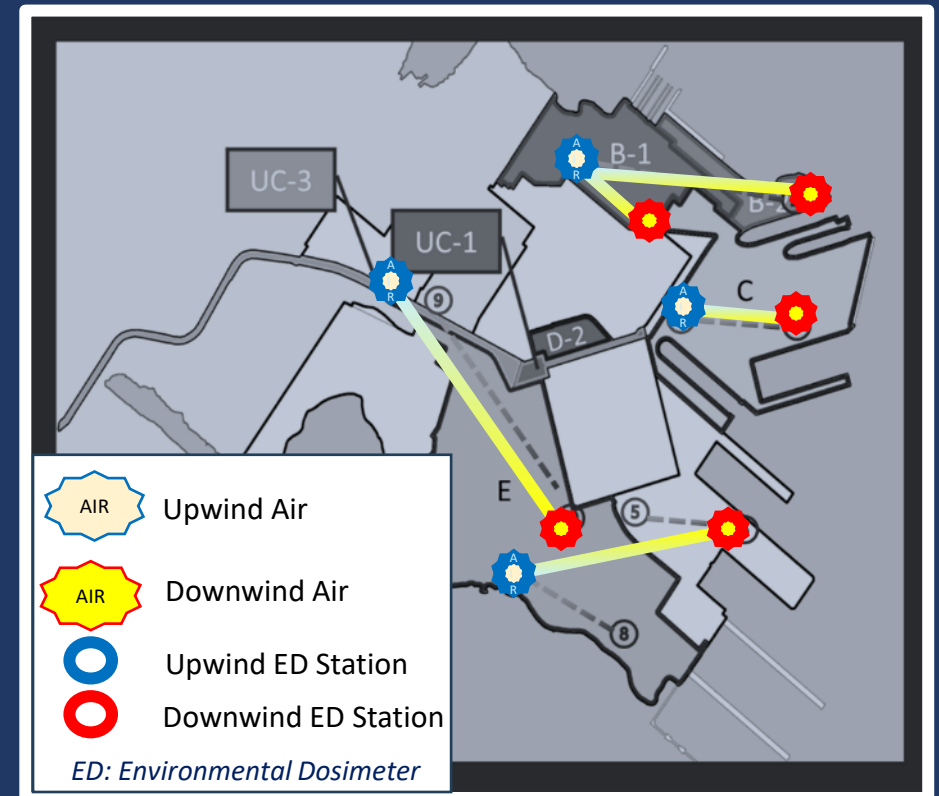
Air Filter Screening Results (Protean)

Parcels B, D-2, and E

- Parcel B: 7/22 -7/25
 - All results below 10% of the NRC limit
- Parcel D2: 1/25 – 7/25
 - All results below 10% of the NRC limit
- Parcel E: 7/23 – 3/25, 1/26
 - 2 paired samples above the 10% HPNS Work Plan action level, but estimated doses are far below the limit
 - MSE 01 (upwind, 13% of action level on 11/16)
 - MSE02 (downwind, 11.7% of the action level on 11/15/23)

Parcel C: 12/6/22 - 1/6/26

- All results below 10% of the NRC limit



Worker Dosimeter Readings

Related to Data Quality Review

Compared to Relative Doses From Radiation Sources Over Time



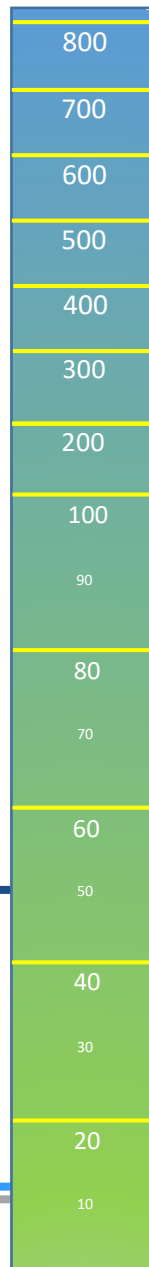
**NRC Standard
for radionuclides in air
50 mrem (annual)**



**EPA Cleanup Level
for radionuclides
12 mrem (annual)**



**Navy Action Level
for radionuclides in air
10 mrem (annual)**



**Average dose
per person in
United States
624 mrem (annual)**



**Medical X-ray
40 mrem
(single procedure)
~2% personal dosimeters
readings were below this**



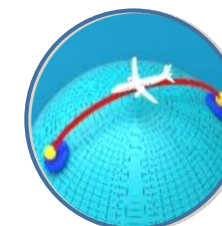
**SFO Gamma Background
30 mrem (annual)
~98% personal dosimeter
readings were at or below this**



**Normal cosmic
radiation in
San Francisco
(low elevation)
24 mrem (annual)**



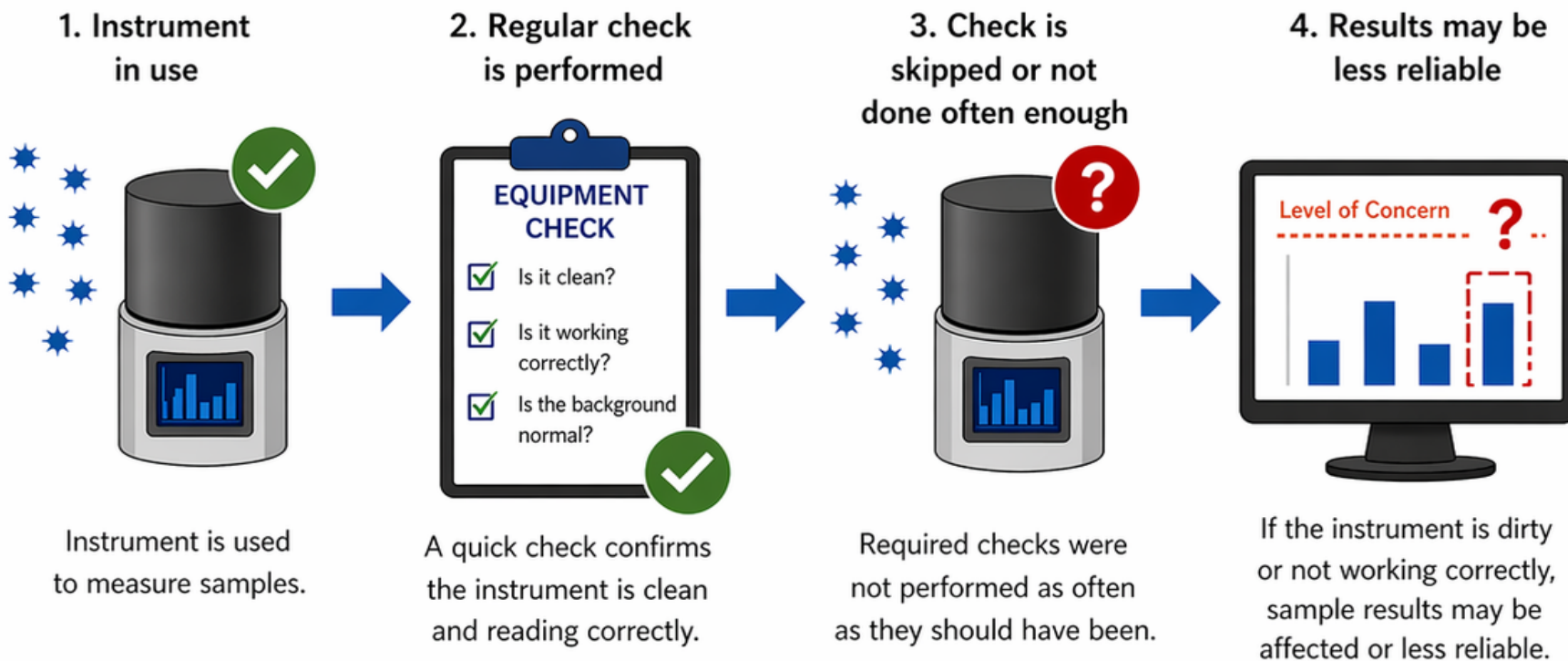
**Round trip flight
from SF to NYC
~4 mrem (per trip)**



Why Regular Equipment Checks Matter

Instrument Contamination Check (ICC) – also known as the “short background”

Labs must regularly check their instruments to make sure they are clean and working correctly.



Routine equipment checks help confirm results are accurate and are not affected by the equipment itself.



Labs regularly check their instruments to make sure they are clean and working properly.



It's important to ensure that checks are performed as often as required for accuracy.



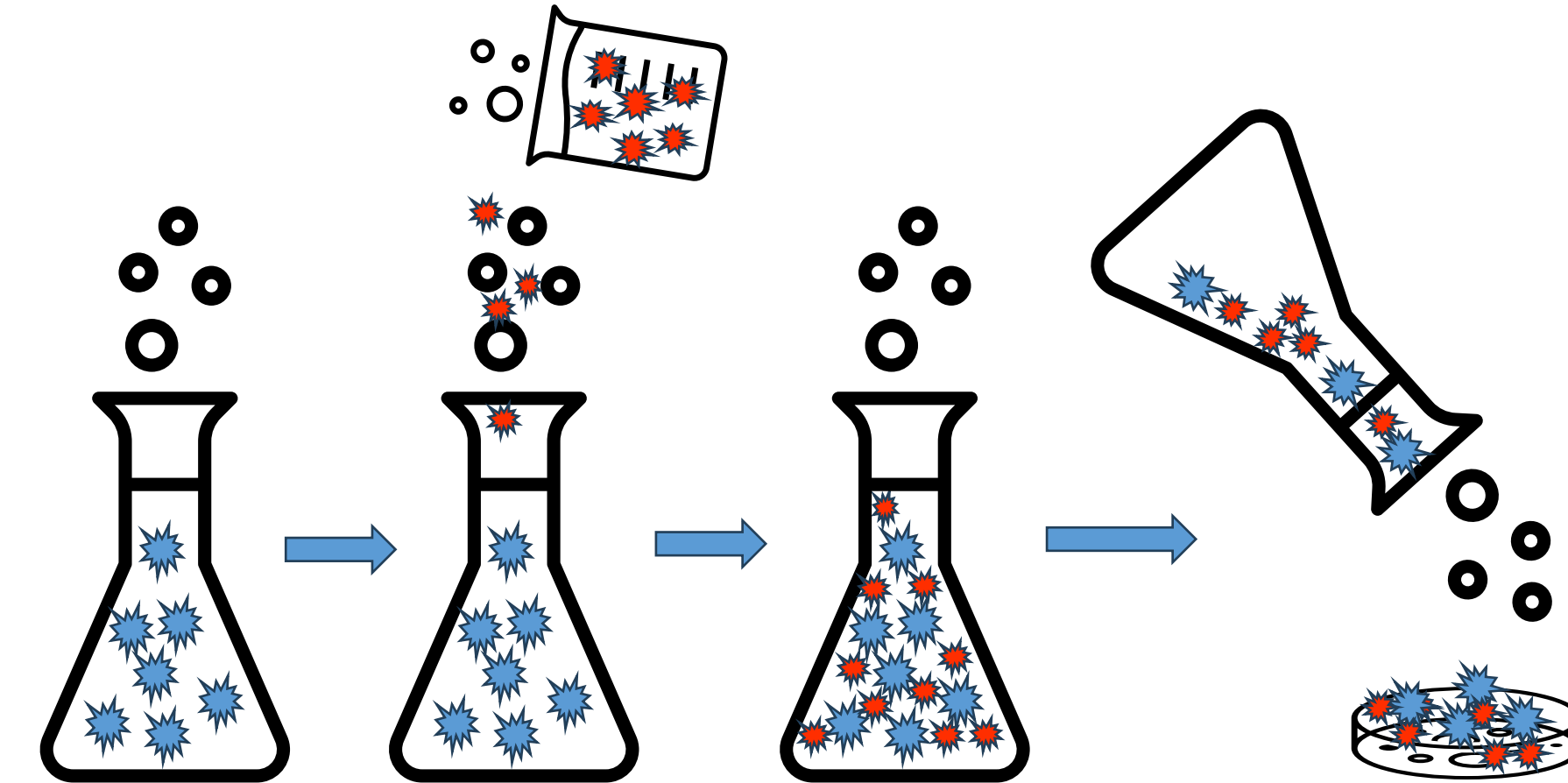
Without regular checks, results may be less reliable or need further review.



This issue affects the reliability of the data, not the health or safety of the community.

Why Results Can Appear Higher Than They Really Are

Known amount of compound with similar characteristics to radionuclide (*tracer*) added



Unknown amount
of radionuclide

Unknown and *tracer*
processed together

If 50% of *tracer* recovered, then 50%
of *unknown* should be recovered

Underestimating
how much *tracer* was
recovered overestimates
how much *unknown*
is there

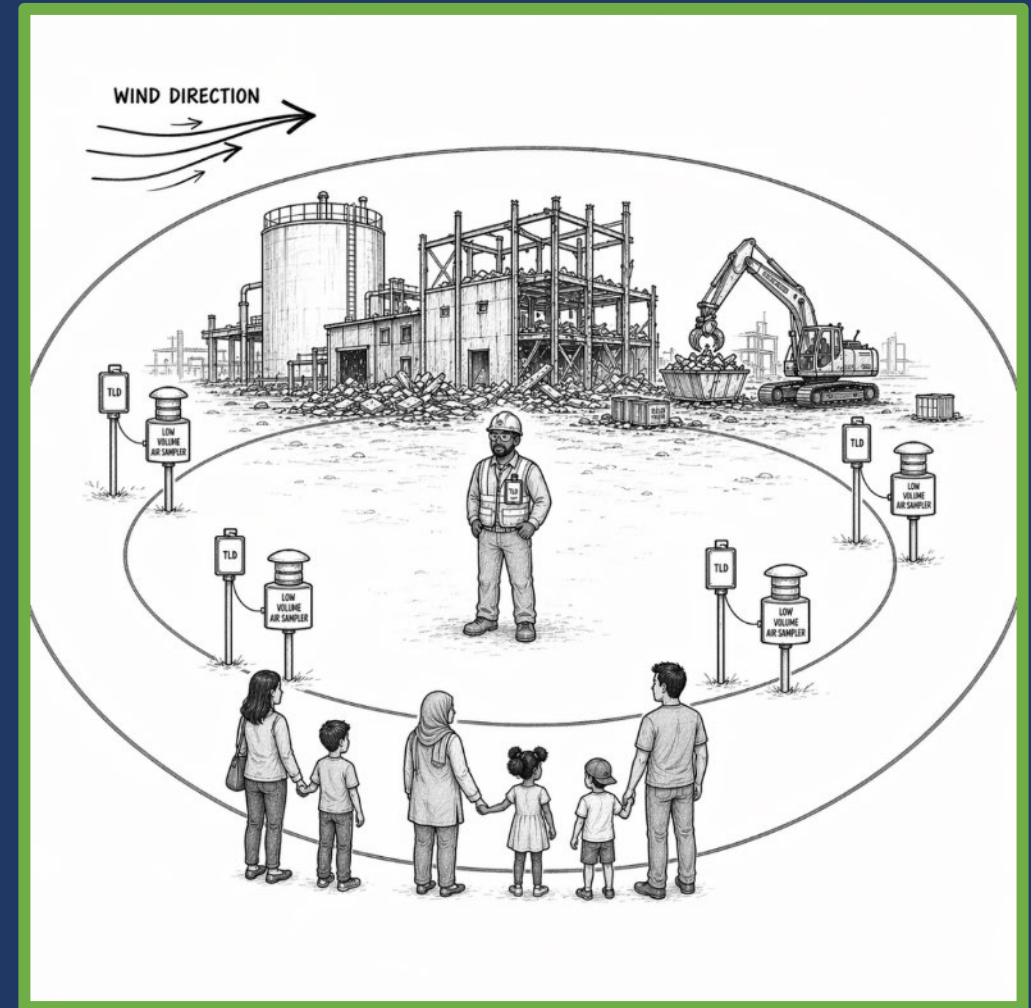
If overcounting amount
of *unknown* occurs, this
also overestimates the
total amount of
unknown in the sample

These errors lead to
'High Bias' which means
the result is larger than
the true value

On-site Air Filter Data Summary

Air, direct radiation, and personnel measurements:

- ✓ Are **consistent with EPA regional data**
- ✓ Show **no detection of radiation health hazard**

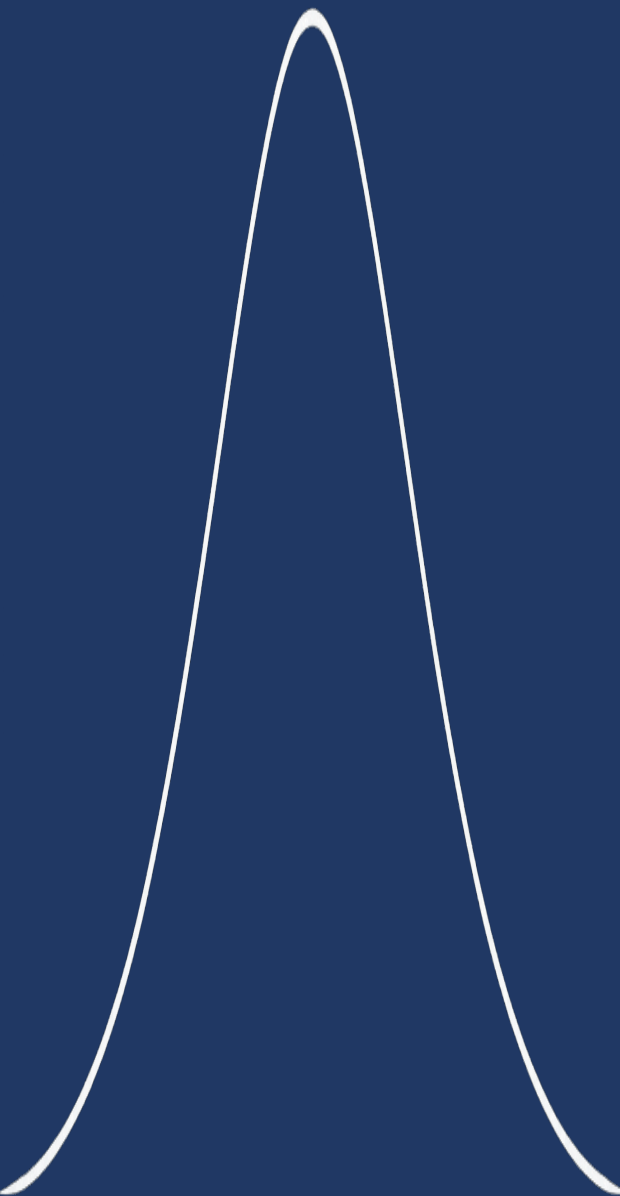


Summary and Next Steps

Summary

- Review of the non-laboratory multiple lines of evidence do not indicate a health risk.
- Working with the regulatory agencies to resolve this data quality issue
- EPA has performed their own assessment and concurs this is a quality control issue and not a health risk issue

Minimum response for a health-based concern



Even if this sample response was not measured correctly, the response is well below what we would expect for a health concern.

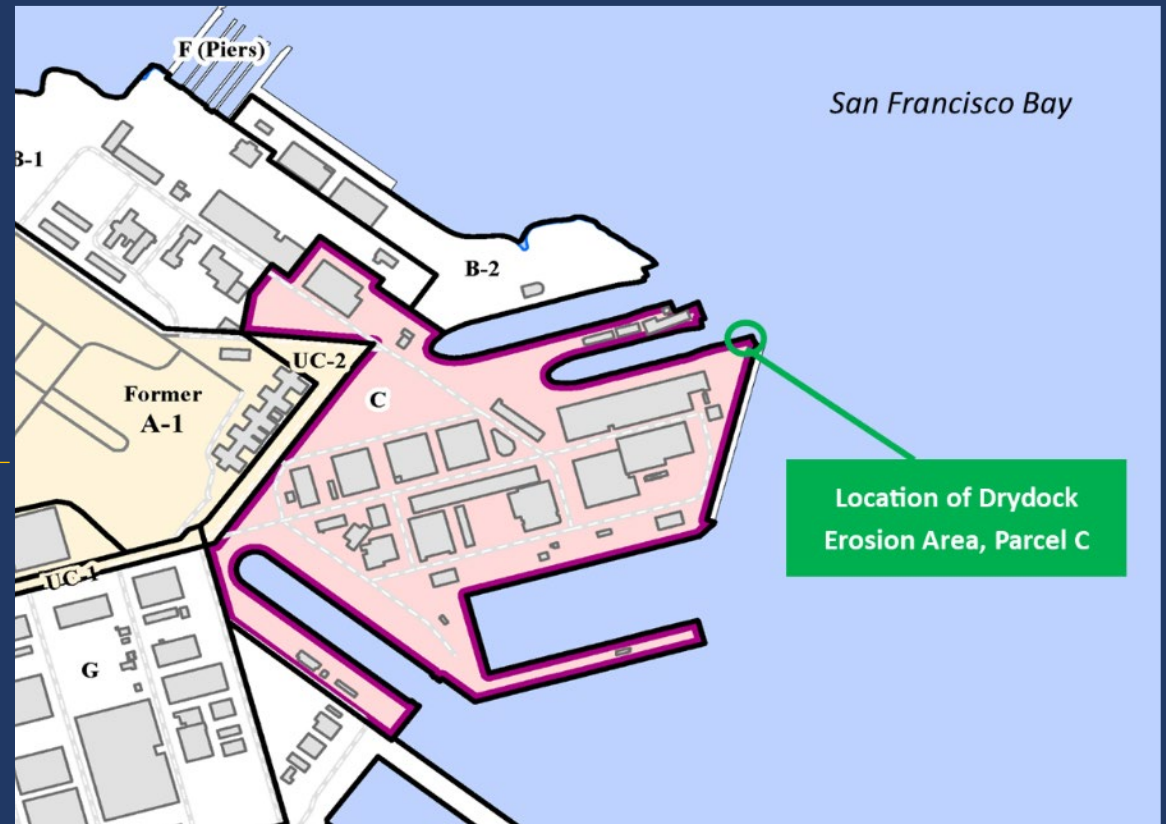


Next Steps

- Reanalyze the 714 soil samples by a new DOD ELAP certified laboratory
- Work with the regulatory agencies to determine next steps for the 18 soil samples that are not available to reanalyze
- An independent evaluation of the laboratory is ongoing and may take up to six months to complete

Parcel C Dry Dock 2 Repair

Overview of Work Completed



What Happened at Dry Dock 2

December 18, 2025

- A portion of the edge of Dry Dock 2 collapsed
- Identified during routine site inspections
- Occurred after heavy rains and king tides
- Did not involve active cleanup work areas



Close-up view of eroded dry dock, Parcel C

About the Area and Nearby Material

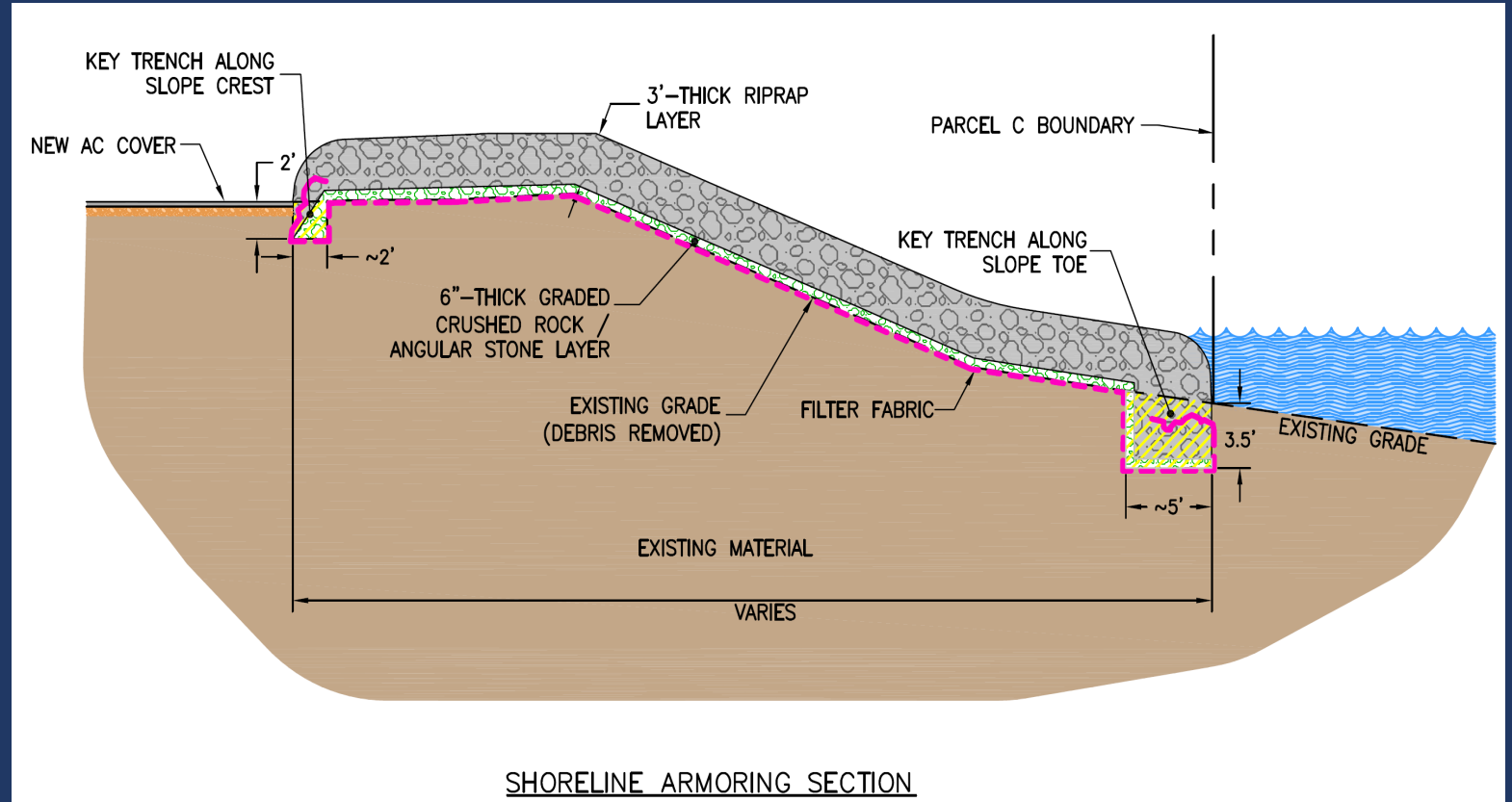
- An RSY pad was located near the dry dock edge
- The pad contained soil from Parcel C radiological retesting (SFU-210B)
- The RSY pad was built with a 35-foot setback and remained intact
- No soil was lost
- Soil had already been sampled and confirmed not radiologically impacted



Relocated RSY pad, moved away from eroded area

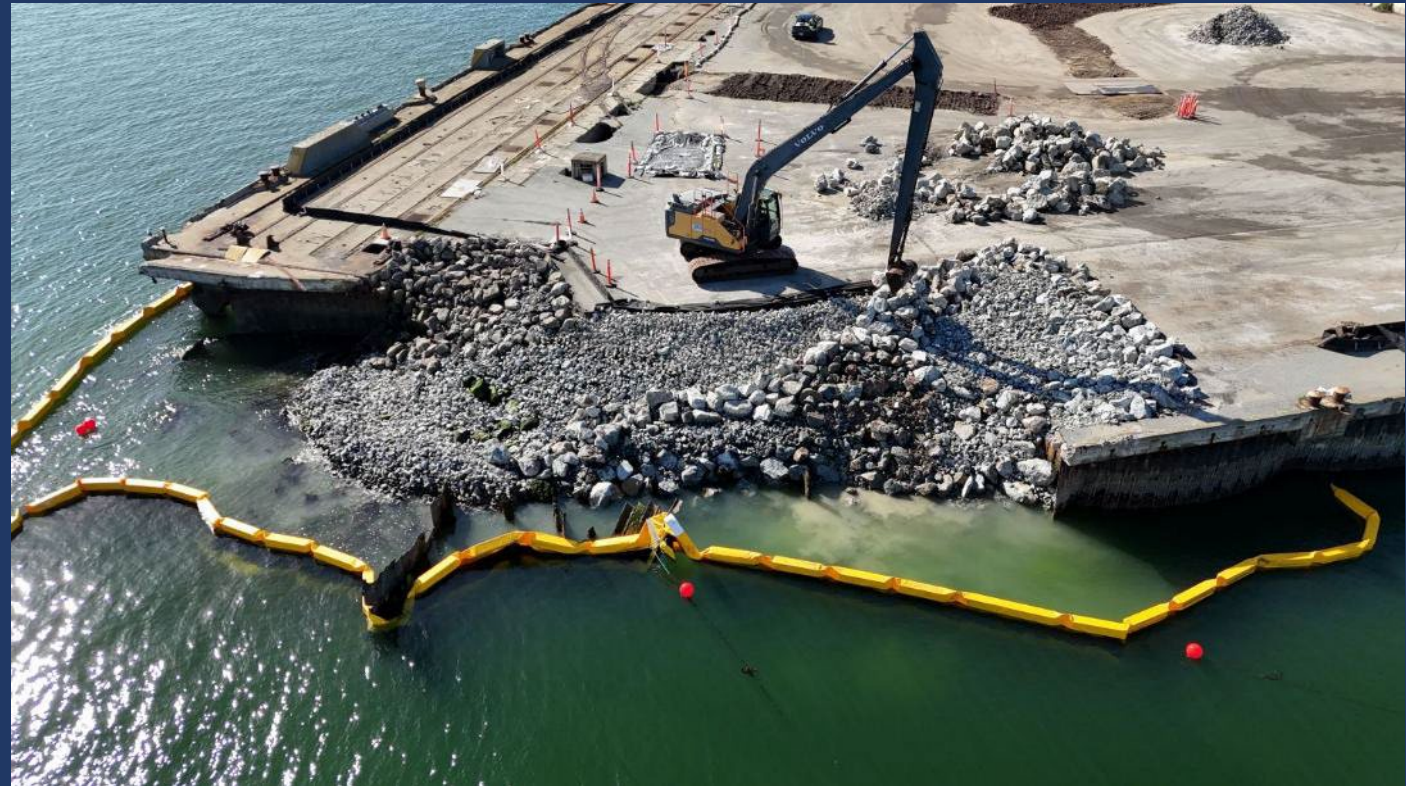
Structural Shoreline Details

- Excavate key at toe and slope grade to Approx 3:1
- Install filter fabric and crushed stone (6-inch thick)
- Install 3-foot thick riprap layer and extend above existing grade



Shoreline Fieldwork Activities

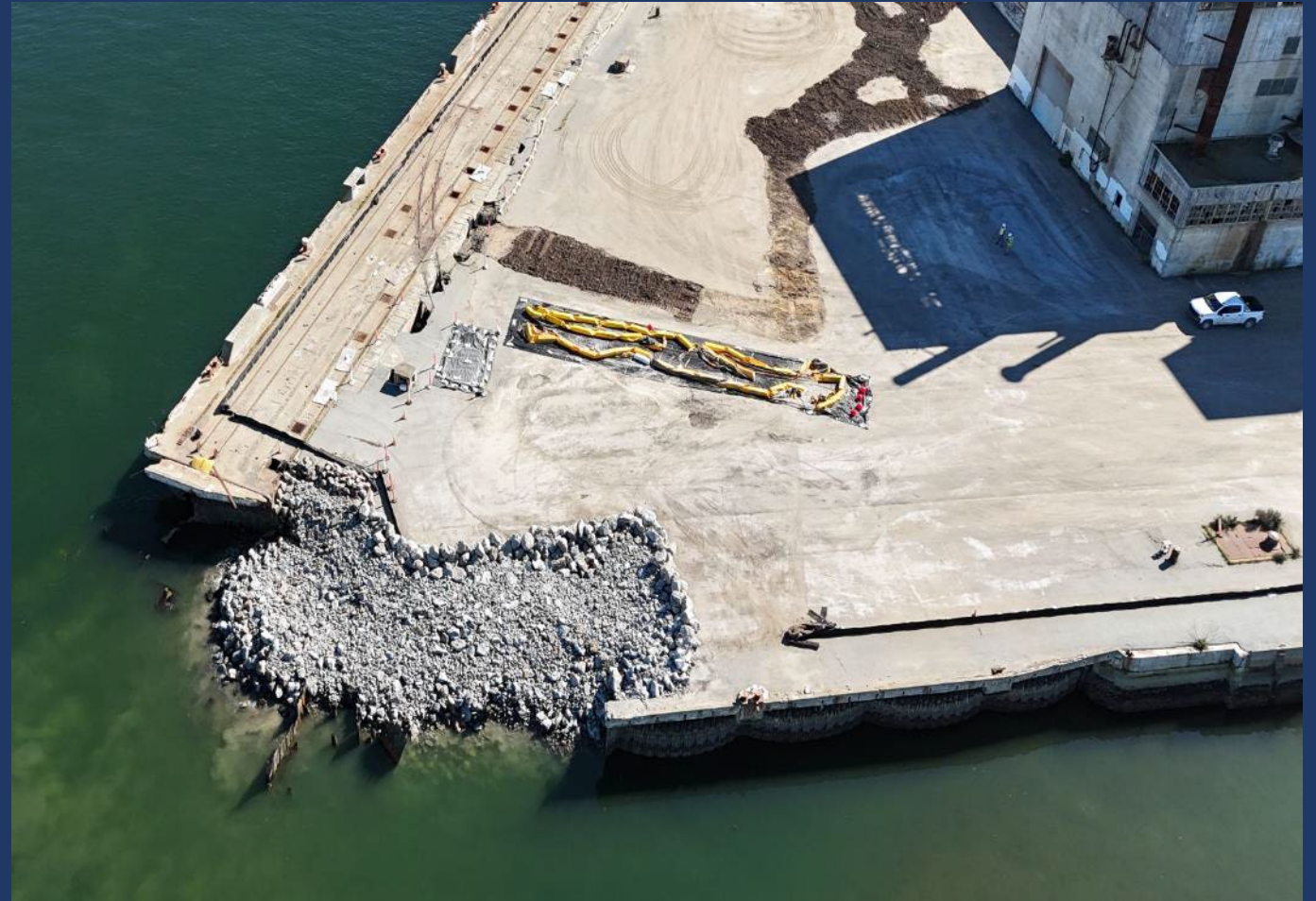
- Field crews mobilized and installed turbidity curtain February 27, 2026
- Durable cover (asphalt) was peeled back
 - Any loose debris was removed from the San Francisco Bay and placed on an RSY pad for sampling
- Geotextile fabric, filter rock and rip rap was installed according to plan.
- Continual air monitoring and water quality monitoring was performed throughout duration of project



Construction of shoreline rip rap

Shoreline Completion

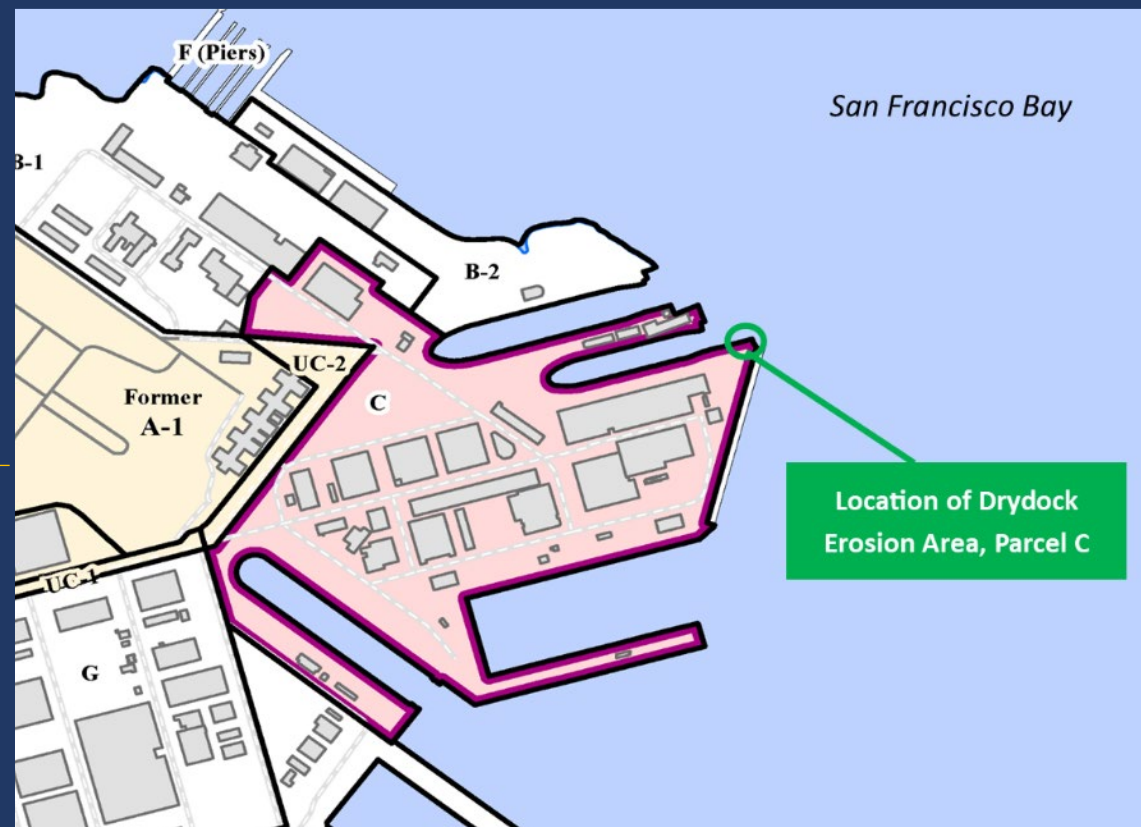
- Fieldwork completed March 11, 2026
 - Silt curtain removed
- Rip rap installation tied into existing repair
 - At eastern corner of dry dock
- Excavated materials placed on RSY pad
 - Currently awaiting lab analysis prior to disposal
- Completion report forthcoming following analysis
 - Draft anticipated in May 2026



Completed Rip rap shoreline repair

Parcel G Building Demolition

Fieldwork Update



Parcel G TO: Field Work Schedule

	Feb 2026	Mar 2026	Apr 2026	May 2026	Jun 2026	Jul 2026	Aug 2026	Sep 2026	Oct 2026	Nov 2026	Dec 2026	Jan 2027	Feb 2027	Mar 2027	Apr 2027	May 2027	Jun 2027	Jul 2027
Building 351	✓	✓																
Building 351A	✓	✓																
Building 366		✓	✓															
Building 401																		
Building 411																		
Building 439																		
Pad 408																		

Hazardous Materials Abatement

Demolition

Parcel G Demolition Approach (No Explosives)

- 1 Hazardous Materials Removed First
 - Abatement completed prior to demolition
- 2 Mechanical Demolition Only
 - Excavators, shears, heavy equipment
 - NO explosives used ★
 - Per RFP Part 6, Attachment D, Sheet 0S001, Note 16
- 3 Controlled, Phased Removal
 - Buildings removed systematically
 - Dust and air monitoring ongoing

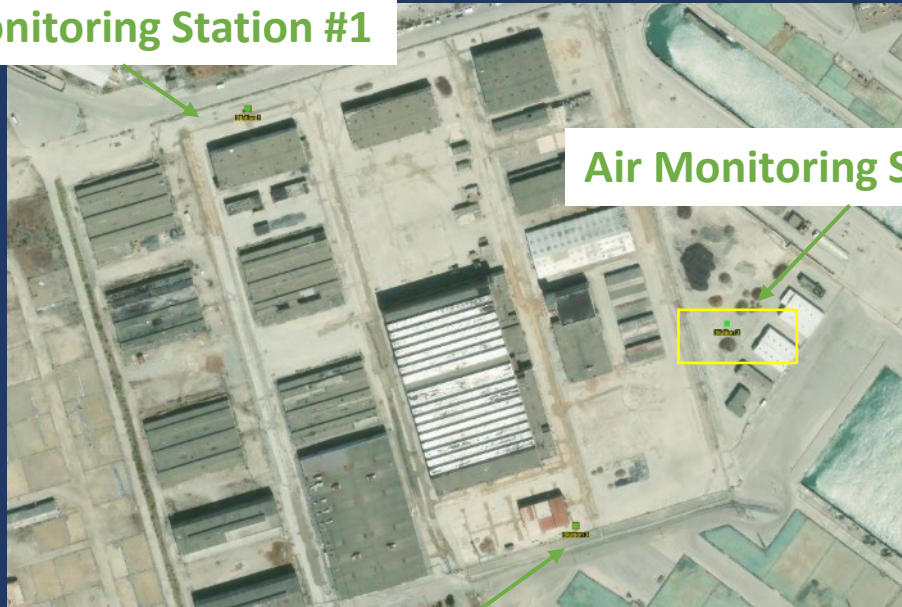


Six buildings will be removed
at Parcel G

Parcel G Building Demo Air Monitoring Program

Air monitoring program has begun with real-time dust reading and analytical sampling during all abatement and demolition activities

Air Monitoring Station #1



Air Monitoring Station #2



Air Monitoring Station #3

Air Monitoring Station #1

Parcel G Building Demo Air Monitoring

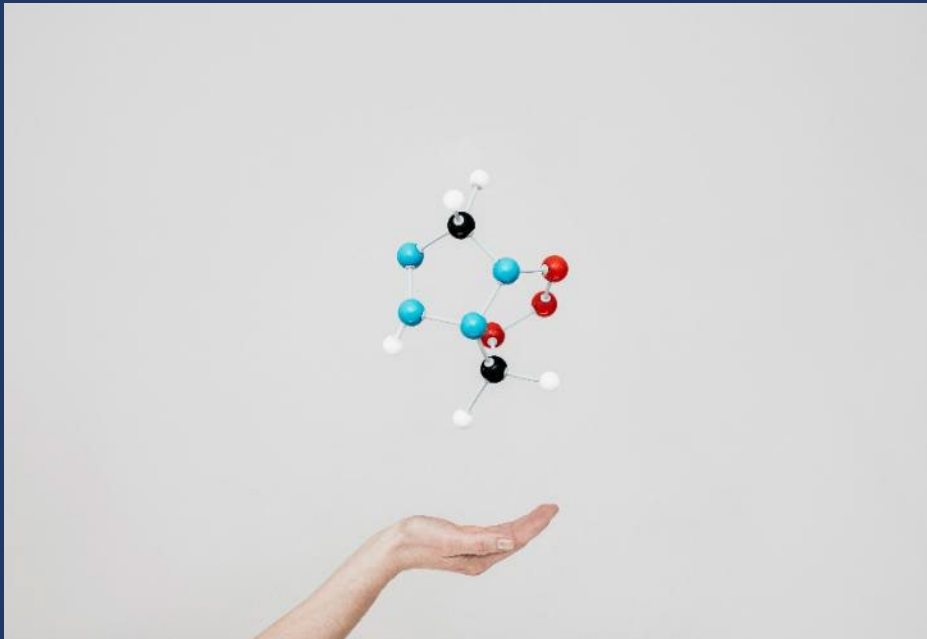
✓ Monitored During All Work Activities

- ✓ Asbestos
- ✓ Lead
- ✓ Manganese
- ✓ Total Suspended Particulates (TSP)
- ✓ Particulate Matter 10 μ g (PM-10)



Additional Monitoring During Demolition

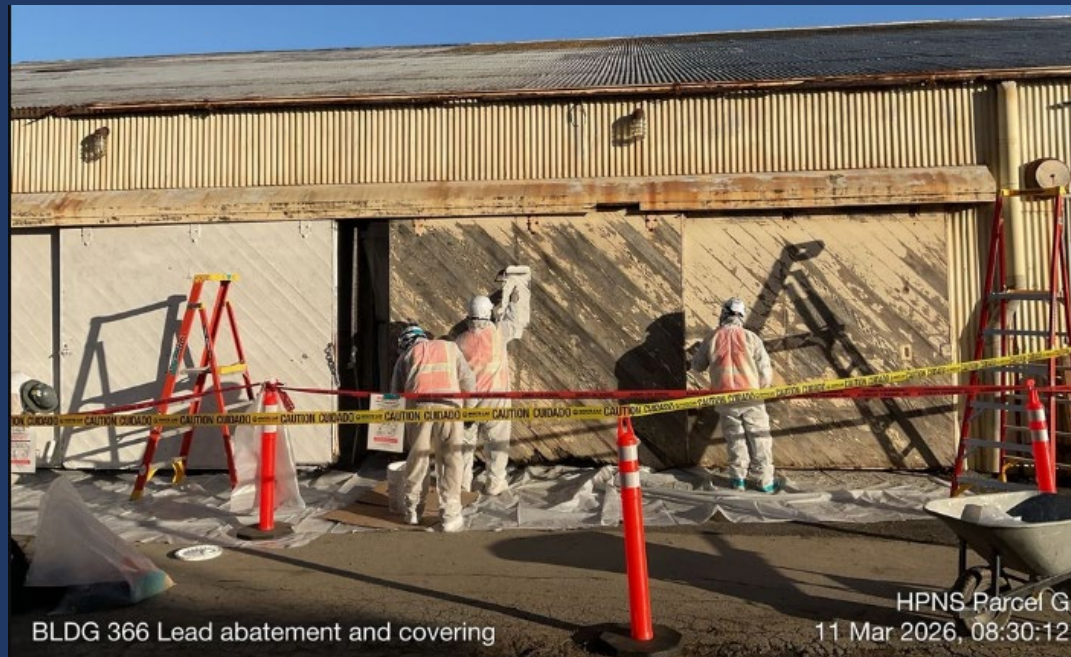
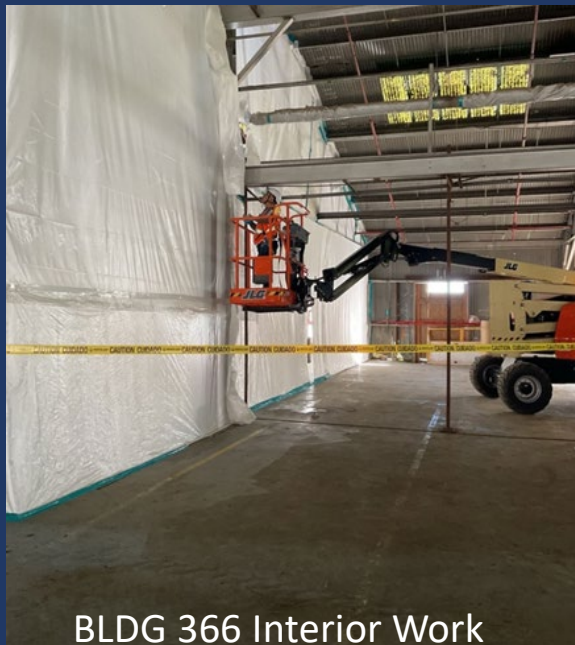
- ✓ Cesium-137
- ✓ Plutonium-239/240
- ✓ Radium-226
- ✓ Strontium-90
- ✓ Thorium-232
- ✓ Uranium-235
- ✓ Mercury*
- ✓ Polychlorinated Biphenyls (PCBs)*



* = Open Air Demolition (Buildings 401 & 411)

Parcel G Building Abatement Progress

- Hazardous materials abatement has begun with Asbestos, lead-based paint, and other hazardous material removal and packaging



Parcel G Building Abatement Progress

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BLDG 366 Interior Work



BLDG 351A Crawl Space Abatement

Parcel G Building Abatement Progress

- Shipment of waste out of state has begun
- All trucks are weighed and scanned for radiation prior to leaving HPNS



Truck Scale at Parcel G



Loading of asbestos pipe



Pre-staged sacks waiting to be loaded

HPNS Community Involvement Plan

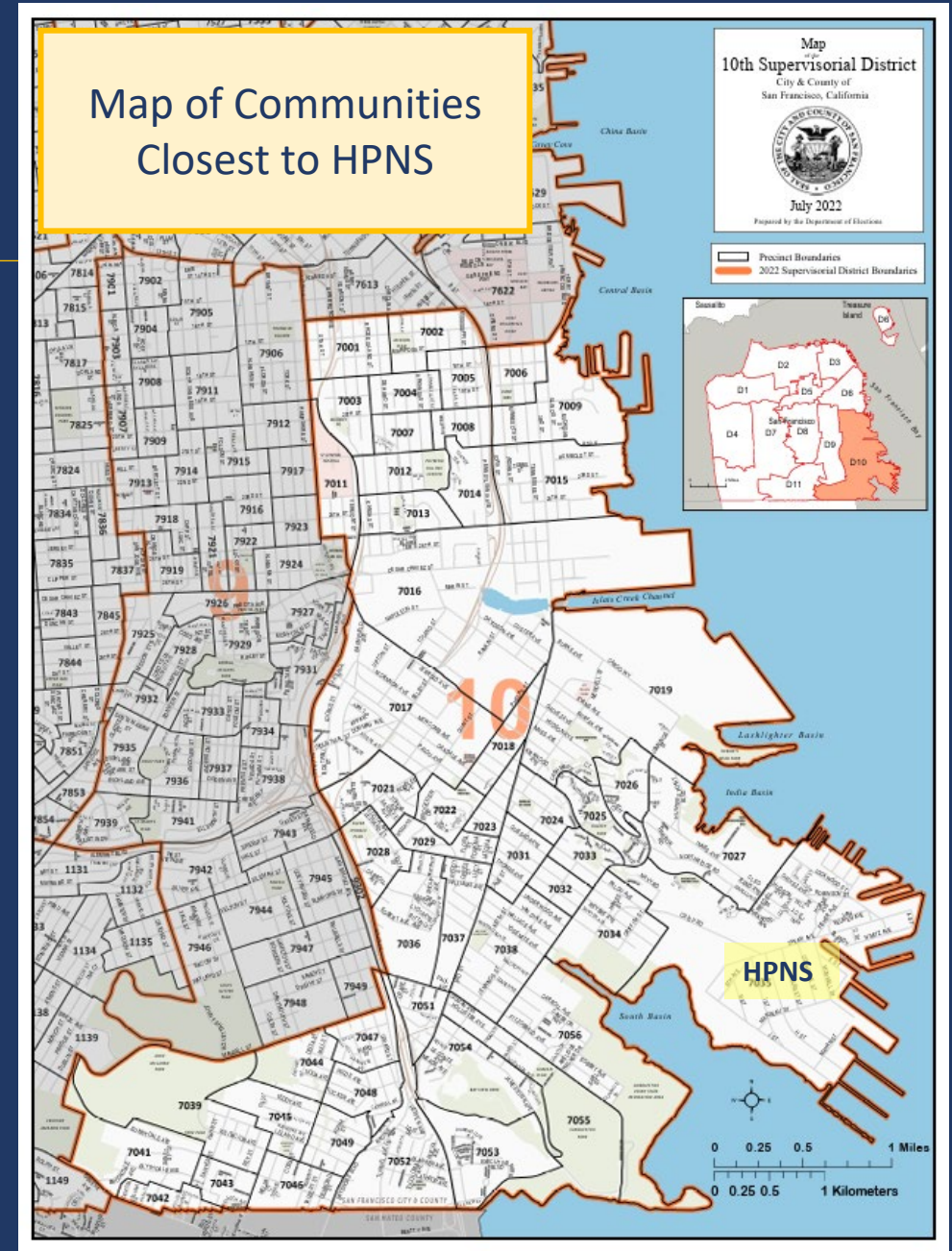
2026 Update and Community Survey

HPNS Community Involvement Plan (CIP) Update

- The HPNS CIP:
 - Provides framework for Navy community outreach
 - Gathers community preferences & feedback via surveys and stakeholder discussions
 - Allows Navy to evaluate effectiveness of outreach since last update
- The Navy updates the HPNS CIP about every 2 years
 - Last CIP Update: January 2025
 - Available on the Documents page of the Navy's website: www.bracpmo.navy.mil/hpns
 - 2026 update is underway

CIP Focus

- Shipyard Tenants and Neighbors
 - People who live & work close to HPNS (District 10)
 - Shipyard Artists
 - Eclectic Cookery
 - San Francisco Police Department
- Other interested members of the public



Choose How You Want to Stay Involved

- **Electronic Resources**

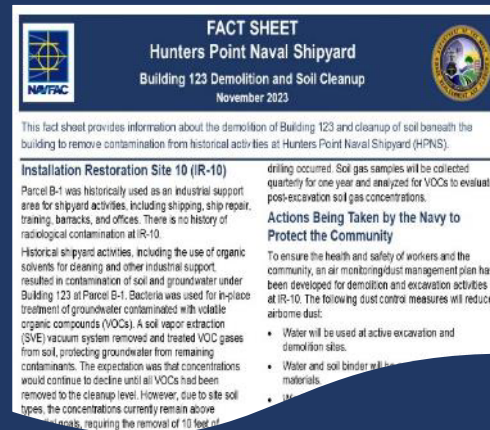
- Document posts on Navy website
- Monthly Timely Topics posts
- Electronic newsletters & emails



Scan for HPNS website

- **Written Materials**

- Informational fact sheets & program updates
- HPNS cleanup program documents



Informational fact sheet

- **Presentations**

- Bi-monthly HPS CAC E&R Subcommittee meetings
- HPS Shipyard Artist meetings & discussions
- Quarterly SF Shipyard HOA meetings (former Parcel A)



Navy presents at HPS CAC meeting

2026 CIP Schedule Update

**We are here.
Your input is being
collected now.**

Feb 2026

Develop contact list; agency feedback incorporated

Discussed survey questions with agencies (2/09 COWG); received approval to proceed

Finalized survey questions



Mar 2026

Prepared mailer to distribute survey to about 18,000 addresses



Apr 2026

Distributed survey in mid-April via USPS list, community groups, email subscribers, at Open Studios, other identified outreach

Share survey update at April community meetings

Gather interest in focus groups



May 2026 – Aug 2026

Close survey in end of May

Review survey data & update outreach plan

Navy Review of Draft CIP

Submit Draft CIP to agencies for 30-day review



Sep 2026 – Oct 2026

Incorporate agency comments into CIP

Submit Final CIP and post to Navy website

Take the Survey!

Help improve how we share information about
HPNS environmental cleanup with your
community



Scan the QR Code

— OR —

Copy and paste this link into your browser:

https://www.research.net/r/ER_Apr2026

Participate in a Focus Group!

- Small group discussion (1 hour)
- Virtual or in-person options available
- Share your thoughts directly
- Help shape future community outreach



Scan the QR Code

– OR –

Copy and paste this link into your browser:

<https://uniquo.de/mtAKIY>

2026 Navy Outreach Presentations to HPSCAC E&R Subcommittee

SAVE THE DATES*

Typically, the 4th Monday
of Odd-numbered Months

January 26, 2026

April 27, 2026

June 15, 2026

July 27, 2026

September 28, 2026

November 16, 2026

**pending HPSCAC E&R
Subcommittee Chair approval*

2026 Year-at-a-glance

January	February	March	April
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3	1 2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 3 4
4 5 6 7 8 9 10	8 9 10 11 12 13 14	8 9 10 11 12 13 14	5 6 7 8 9 10 11
11 12 13 14 15 16 17	15 16 17 18 19 20 21	15 16 17 18 19 20 21	12 13 14 15 16 17 18
18 19 20 21 22 23 24	22 23 24 25 26 27 28	22 23 24 25 26 27 28	19 20 21 22 23 24 25
25 26 27 28 29 30 31		29 30 31	26 27 28 29 30
May	June	July	August
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2	1 2 3 4 5 6	1 2 3 4	1
3 4 5 6 7 8 9	7 8 9 10 11 12 13	5 6 7 8 9 10 11	2 3 4 5 6 7 8
10 11 12 13 14 15 16	14 15 16 17 18 19 20	12 13 14 15 16 17 18	9 10 11 12 13 14 15
17 18 19 20 21 22 23	21 22 23 24 25 26 27	19 20 21 22 23 24 25	16 17 18 19 20 21 22
24 25 26 27 28 29 30	28 29 30	26 27 28 29 30 31	23 24 25 26 27 28 29
31			30 31
September	October	November	December
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4 5	1 2 3	1 2 3 4 5 6 7	1 2 3 4 5
6 7 8 9 10 11 12	4 5 6 7 8 9 10	8 9 10 11 12 13 14	6 7 8 9 10 11 12
13 14 15 16 17 18 19	11 12 13 14 15 16 17	15 16 17 18 19 20 21	13 14 15 16 17 18 19
20 21 22 23 24 25 26	18 19 20 21 22 23 24	22 23 24 25 26 27 28	20 21 22 23 24 25 26
27 28 29 30	25 26 27 28 29 30 31	29 30	27 28 29 30 31

Resources for More Information



HPNS Program Management



Michael Pound
michael.j.pound.civ@us.navy.mil

Navy BRAC PMO West
33000 Nixie Way, Bldg 50, Suite 207
San Diego, CA 92147
www.bracpmo.navy.mil/hpns

Regulatory Agencies

US Environmental Protection Agency

Mike Collins: collins.mike@epa.gov
Jackie Lane: lane.jackie@epa.gov

CA Dept. of Toxic Substances Control

Michael Howley: michael.howley@dtsc.ca.gov

San Francisco Bay Regional Water Quality Control Board

Mary Snow: mary.snow@waterboards.ca.gov

Other Resources



Community Technical Advisor
Dr. Kathryn Higley
(541) 737-0675
kathryn.higley@oregonstate.edu
www.ne.oregonstate.edu

HPNS Online Documents

- <https://www.bracpmo.navy.mil/hpns>
- <https://administrative-records.navfac.navy.mil/?PN24V63WGTUM4VG4WO>



HPNS Community Outreach

Send an email or leave a message

- For program information
- To join the HPNS Mailing List
- To request language assistance



info@sfhpn.com



(415) 295-4742