

# **Basewide Groundwater and Soil Gas Monitoring Program**

**Former Naval Station Treasure Island**

**March 2020 RAB Meeting  
Navy BRAC**

# Overview



## PURPOSE

**Collect groundwater\* samples and soil gas data to support ongoing environmental restoration efforts**

## SITES BEING MONITORED

- **IR Site 6 – Former Fire Training School**
- **IR Site 12 – Old Bunker Area**
- **IR Site 21 – Vessel Waste Oil Recovery Area**
- **IR Site 24 – Former Dry Cleaning Facility**

**\*groundwater is not used for drinking water at TI**

# Map of Monitoring Sites



# IR Site 6

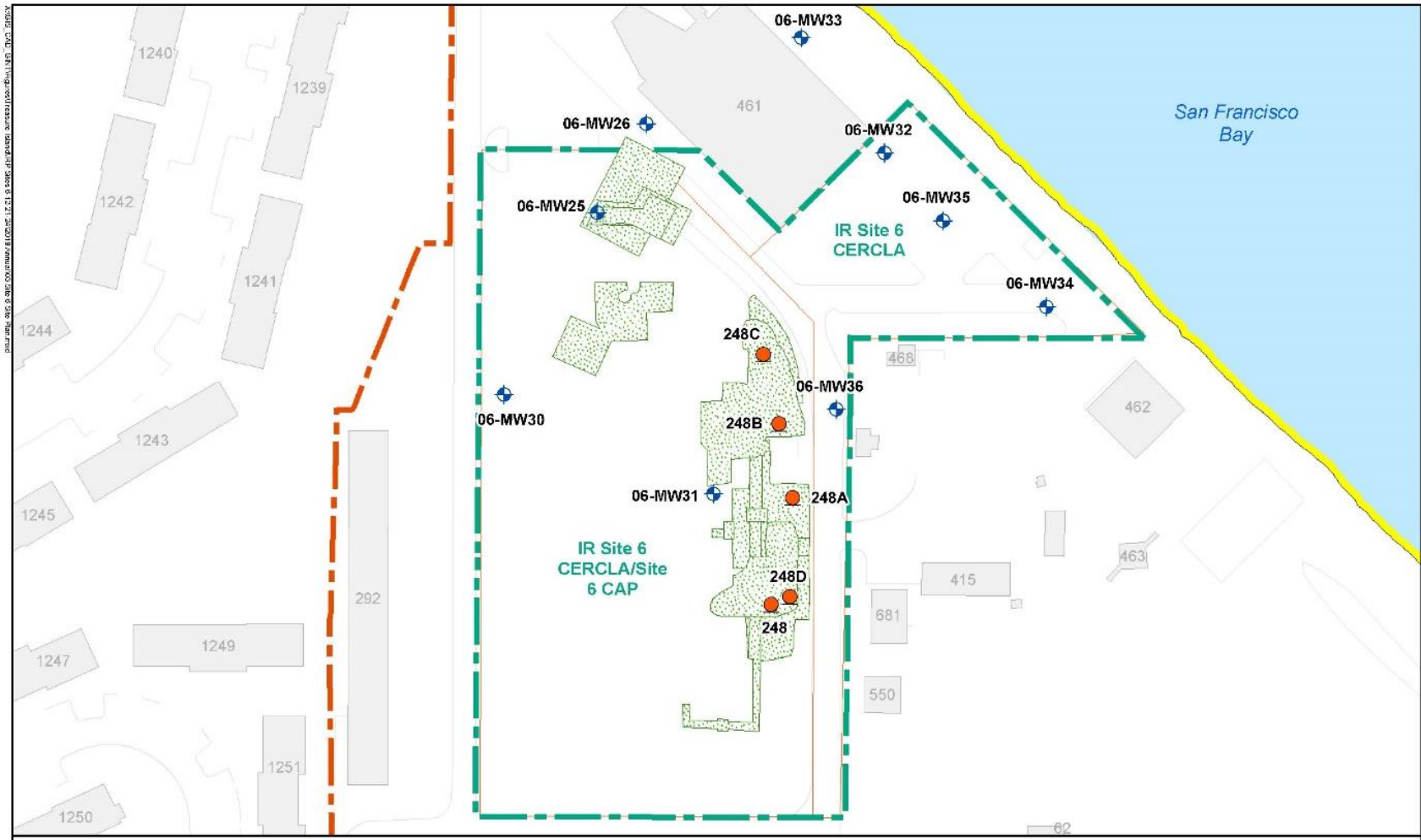


- ***Past use?***
  - Historical fire fighter training area, use of Aqueous Film Forming Foam (AFFF), USTs, open fires
- ***When was the last monitored?***
  - Nine (9) GW wells June 2018 and Spring 2017 (PFAS)
- ***What are we monitoring for?***
  - Arsenic, PFAS, petroleum
- ***What are the five year review findings?***
  - Toxicity criteria changed for arsenic – additional evaluation needed
- **Path forward: investigations for PFAS; additional monitoring for arsenic & petroleum**

## IR Site 6 Burn Pit



# IR Site 6 Layout



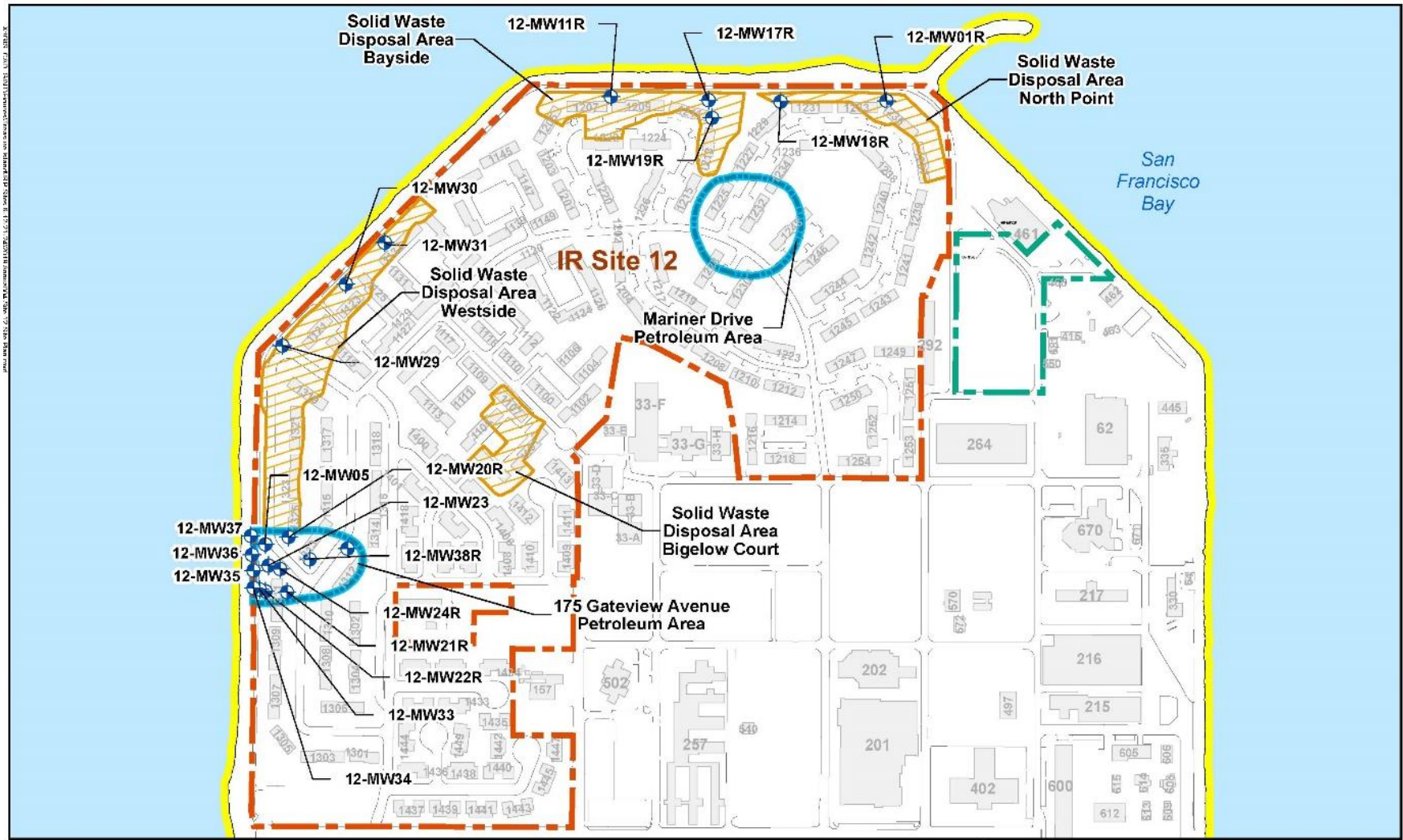
# IR Site 12



- ***When was the last monitored?***
  - Twenty-one (21) wells in 2019 within SWDAs & Gateview excavation
  
- ***What are we monitoring for?***
  - Petroleum & arsenic (Gateview Ave), and radionuclide due to disposal areas
  
- ***What are the findings?***
  - TPH and arsenic present at Gateview Avenue
  - No exceedances of Ra-226
  
- **Path forward**
  - Continue Monitoring Gateview Avenue arsenic/TPH area
    - Establish post remedial action trends for arsenic in groundwater
  - Continue monitoring Ra-226
    - Support for Site 12 radiological feasibility study



# IR Site 12 Layout



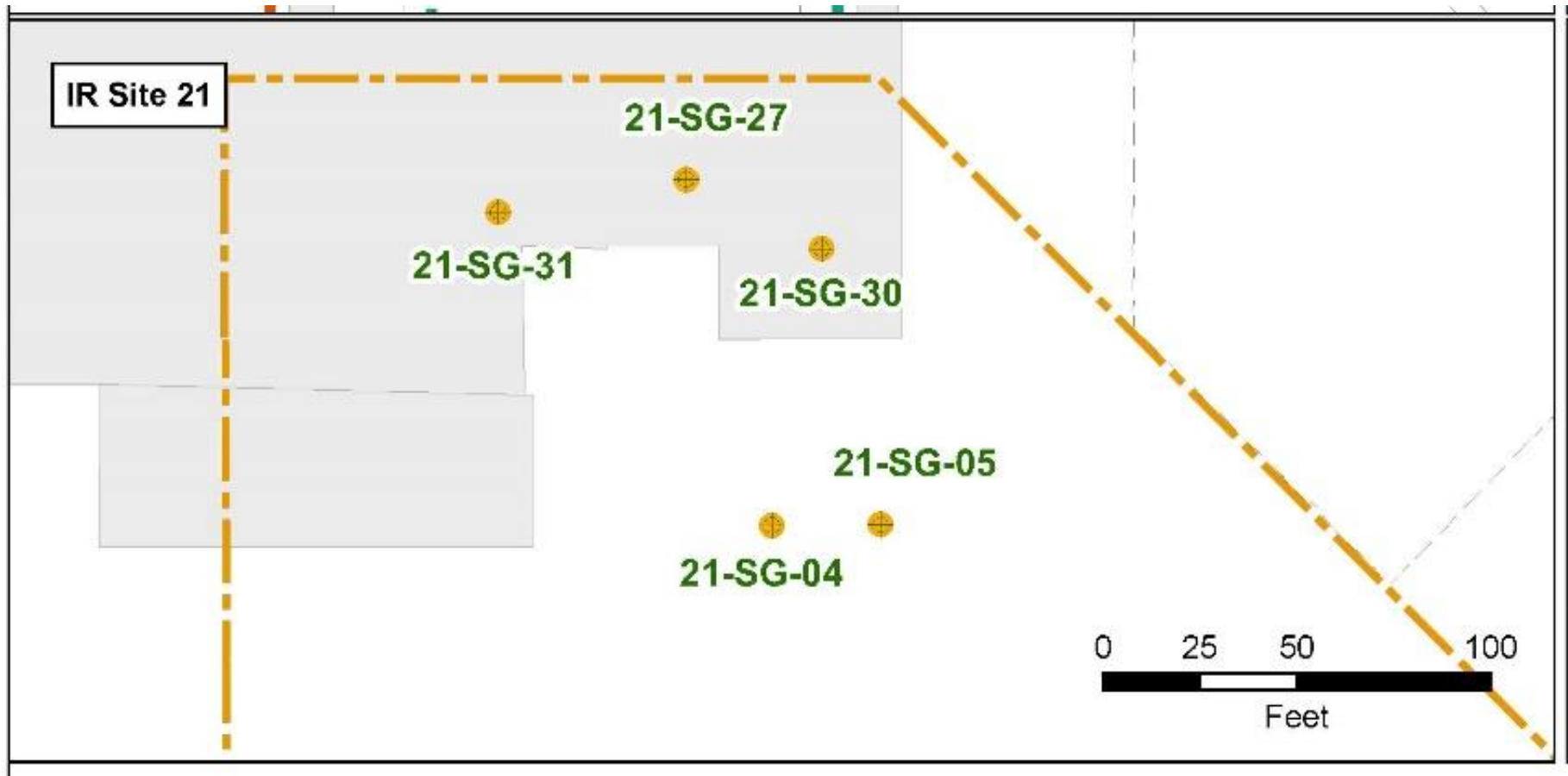


# IR Site 21



- ***Past use?***
  - Parts washing station using solvents (dip tank)
- ***When was the last monitored?***
  - Groundwater in 2015 and Soil Gas in June 2018; no monitoring performed in 2019
- ***What are we monitoring for?***
  - Chlorinated solvents in soil gas, groundwater goals met in 2015
- ***What are the findings?***
  - Concentrations of chlorinated solvents in soil gas were consistent with or lower than previous results
- **Path forward: next soil gas sampling will be in 2023 to support TI's third Five-Year Review**

# IR Site 21 Layout

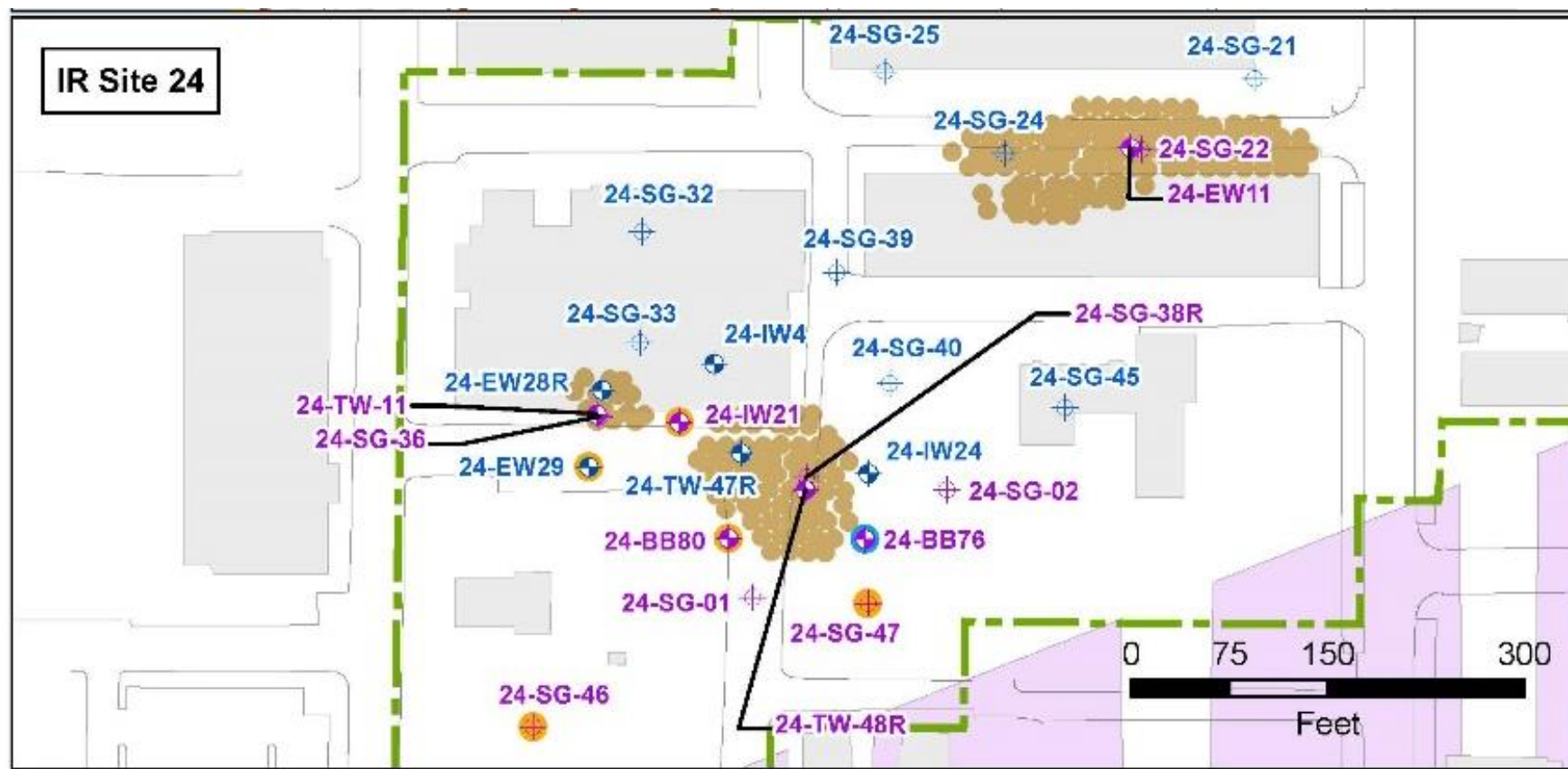


# IR Site 24



- ***Past use?***
  - Dry cleaning (solvents) and laundry (closed in 1977)
- ***When was the last monitored?***
  - Seven (7) groundwater wells & Fourteen (14) soil gas in 2019
- ***What are we monitoring for?***
  - Chlorinated solvents, arsenic
- ***What are the findings?***
  - COC concentration exceed RGs; new regulations for soil gas data
- **Path forward: evaluate boundaries of LUCs for potential vapor intrusion**

# IR Site 24 Layout



# Questions

