

Site 12 Fieldwork Phase IV NTCRA SWDA Westside Radiological Areas of Interest

Former Naval Station Treasure Island

Restoration Advisory Board February 9, 2021 Meeting

Site 12 SWDA Westside Overview





- Solid Waste Disposal Area (SWDA) Westside is an approximately 4.5 acre area within the 93-acre IR Site 12 housing area
- Consists of a radiologically controlled area within the fenced portion of the SWDA
- Subject to various excavations as part of several Non-Time Critical Removal Action (NTCRA) phases



Phase IV Non-Time Critical Removal Action (NTCRA) is an extension of the previous project phases (1-3) per the 2007 Action Memorandum (Navy, 2007). This final phase will address the following objectives:

- Clear and remove vegetation
- Remove trash and miscellaneous debris
- Remove existing Phase III soil stockpiles and radiological screening pads
- Restore SWDA Westside to pre-existing ground surface

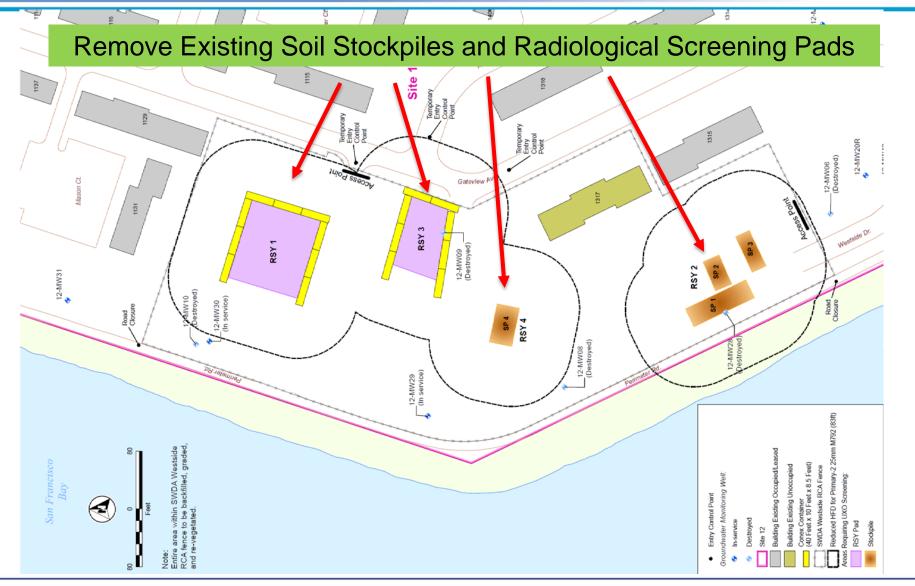
Phases of Fieldwork





Phases of Fieldwork (continued)









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Phases of Fieldwork (continued)





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SWDA Westside Implementation



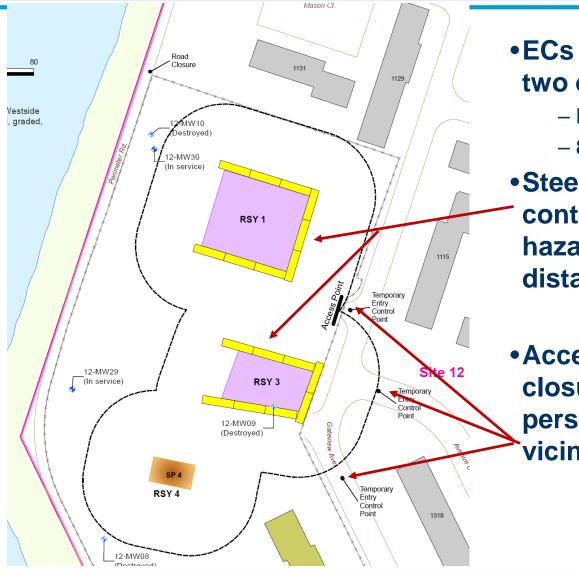


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Munitions Screening Safety Measures Engineering Controls (ECs)





- •ECs based on excavation of two objects
 - MK II Hand Grenade
 - 81mm Japanese Mortar
- Steel-lined shipping containers used to reduce hazardous fragmentation distance
- •Access control points & closures to limit non-essential personnel from site and vicinity access

Site Restoration and Backfill



- Import fill to restore pre-existing ground surface
- Prevent seasonal ponding
- Allow proper drainage





- February 2021 Finalize Phase IV NTCRA Work Plan
 - Issue Work Notice
- Feb/Mar 2021 Begin Phase IV NTCRA Fieldwork
- Feb/Mar Through June 2021 Fieldwork
- June 2021 Begin Preparation of Post Construction Summary Report (PCSR)
- August/September 2021 Submit Draft PCSR to Agencies



 Investigate by excavation seven (7) previously identified radiological anomaly areas of interest within IR Site 12

 Are there radioactive items causing the anomaly?

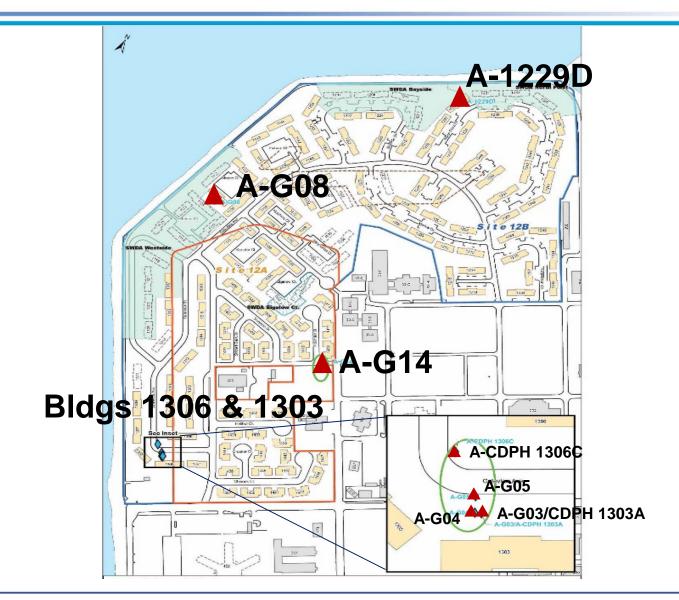
-Is there no identifiable source of the anomaly?

• Each location had an exceedance of an IR Site 12 screening level without identification of the potential source (i.e. radiological item)

- -Sample collected from bottom of excavation
- -Scan of bottom of excavation
- -Inability to access the potential radiological source

Areas of Interest Anomaly Locations



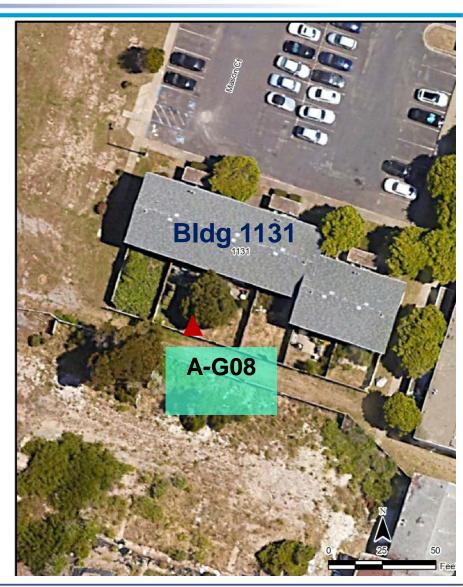


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Bldg 1131 (Anomaly A-G08)



- Identified in 2013 Investigation in the southwest corner of fenced backyard of Bldg 1131
- Soil sample concentration of Radium 226 exceeded screening level
- Further Investigation in February 2018 was performed using hand tools
- •Excavation stopped at 1.5 feet bgs when a large, hard surface was encountered
- •No discrete radiological source identified



Bidg 1229 (Anomaly A-1229D)



- The anomaly was identified in February 2018 based on surface measurements
- Inside vacant Unit D at 1229 North Point Dr
- Intrusive investigation was recommended based on surface measurements





Figure 5. Photograph Showing Location of A-1229D within Grid 12 of Building 1229, Unit D

Bldg 1303 (Anomalies A-G03, A-G04, AG05)



• A-G03/CDPH A-1303A

- -March 2013: Small, discrete particles with radium 226 were identified and removed
- -October 2013: soil sample collected at 1.5 feet depth had concentration of radium 226 exceeding screening level

• A-G04 and A-G05

- -October 2013: Soil removed to 1 foot bgs at both locations with no radiological items identified
- Radium 226 concentrations found in samples from bottoms of excavations exceeded screening level



Bldg 1306 (Anomaly A-CDPH 1306C)

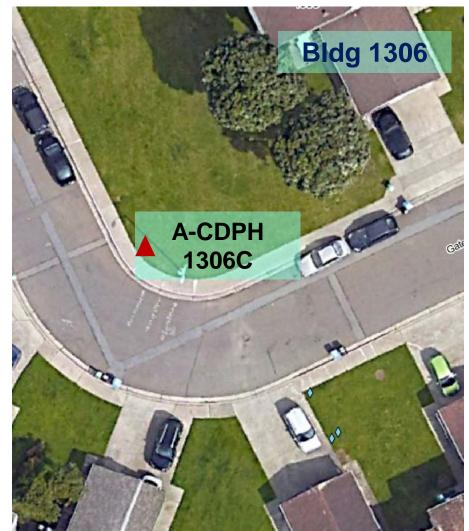


• March 2013: CDPH identified and removed an Octagonal radiological item as the anomaly source



LLRO # 579

• Samples collected from excavation bottom (16 inch depth) and scans of the excavation bottom after removal of the radiological item exceeded screening levels.



Anomaly A-G14



• Three radiological items were discovered during excavations in 2013



LLRO # 1284, 1285, 1286

• Sample collected at bottom of excavation (1.5 feet depth) had radium 226 concentration exceeding screening level

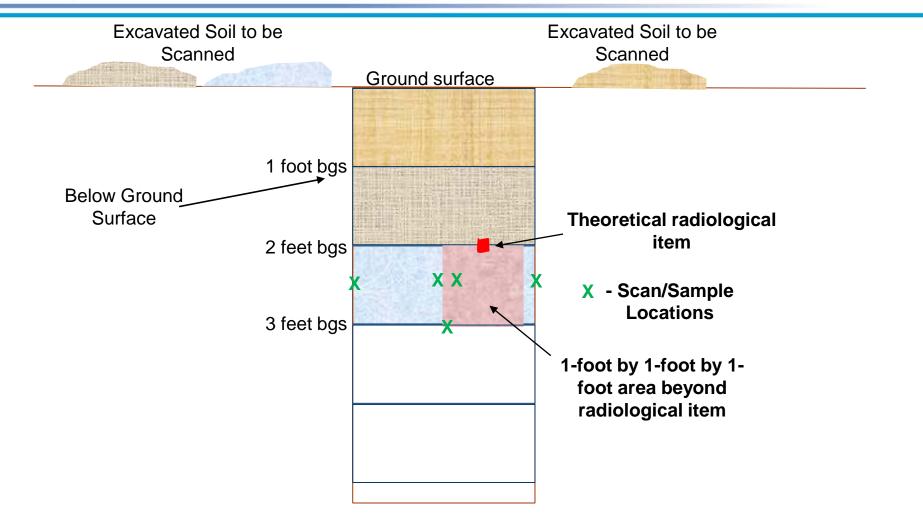




- Identify each anomaly location using GPS coordinates, field sketches, and/or pictures/figures included in historical documentation
- Establish a temporary radiologically controlled area (RCA) around each anomaly location
- Remove concrete or other hardscape, if present, at the anomaly location to allow for excavation
- Excavate 2 by 2-foot area in 1-foot increments

Areas of Interest - Investigation Approach







- If radiological item is detected remove the full extent of radiological material
- •Remove a minimum of a 1-ft by 1-ft by 1-ft volume of soil around the around the radiological item
- •Continue performing surveys within the excavation area to confirm all of radiological item has been removed
- •Once confirmed excavation will be advanced at least 1 foot below the radiological item's location across the full 2-ft by 2-ft extent of the excavation
- If no radiological item is detected or found excavate to 1 foot beyond depth of previous exceedance



• Fieldwork scheduled to begin in late March or early April 2021

• Duration of fieldwork is approximately 2 weeks

• Data from sampling available one month after fieldwork is completed

• Draft report scheduled to be issued in July 2021

Questions



