Site 12
Field Work Progress
Former Naval Station Treasure Island

August 2014 RAB Meeting
Chris Yantos, Project Manager
Contracted Support for Navy BRAC

8/20/2014

Current Field Work at Site 12

1. Radiological Housing Surveys
2. Solid Waste Disposal Area (SWDA) Building Demolition (Phase III)
3. Bigelow Court Radiological and Chemical Cleanup

Radiological Housing Surveys

Surveys 100% complete as of August 19

- 50 full days of surveying
- 794 residential units and garages completed
- 3 areas of elevated activity above background

All 3 elevated areas were determined to have no immediate health concern

- In-house readings result in a radiation dose of less than 10 mrem a year

Residents were notified of survey results and human health risk assessment by letter from TIDA

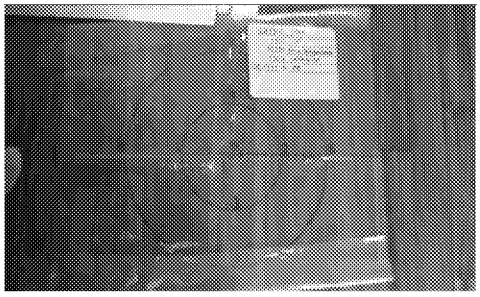
Other observations during field work

- *Some toilets, tile floors/walls, clay bricks, contained elevated natural radioactivity separate from objects of concern*
- *Naturally occurring; no letter from TIDA*

Elevated Survey Results June 30, 2014

Date	Location
06-30-2014	Hallway near kitchen

- **Dose calculation: 5.5 mrem/yr**
- Reading at 12" inches: 8.8 uR/hr
- Reading on contact: 20 uR/hr
- Background: 3.6 uR/hr



Elevated Survey Results July 29, 2014

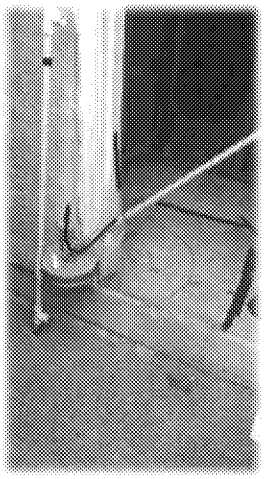
Date	Location
07-29-2014	Living room - 3 feet off wall

- **Dose calculation: 2.9 mrem/yr**
- Reading at 12" inches: 6 uR/hr
- Reading on contact: 16.0 uR/hr
- Background: 3.2 uR/hr

Elevated Survey Results July 30, 2014

Date	Location
07-30-2014	Exterior storage shed

- **Dose calculation: 1.7 mrem/yr**
- Reading at 12" inches: 4.8 uR/hr
- Reading on contact: 12 uR/hr
- Background: 3.2 uR/hr



SWDA Building Demolition

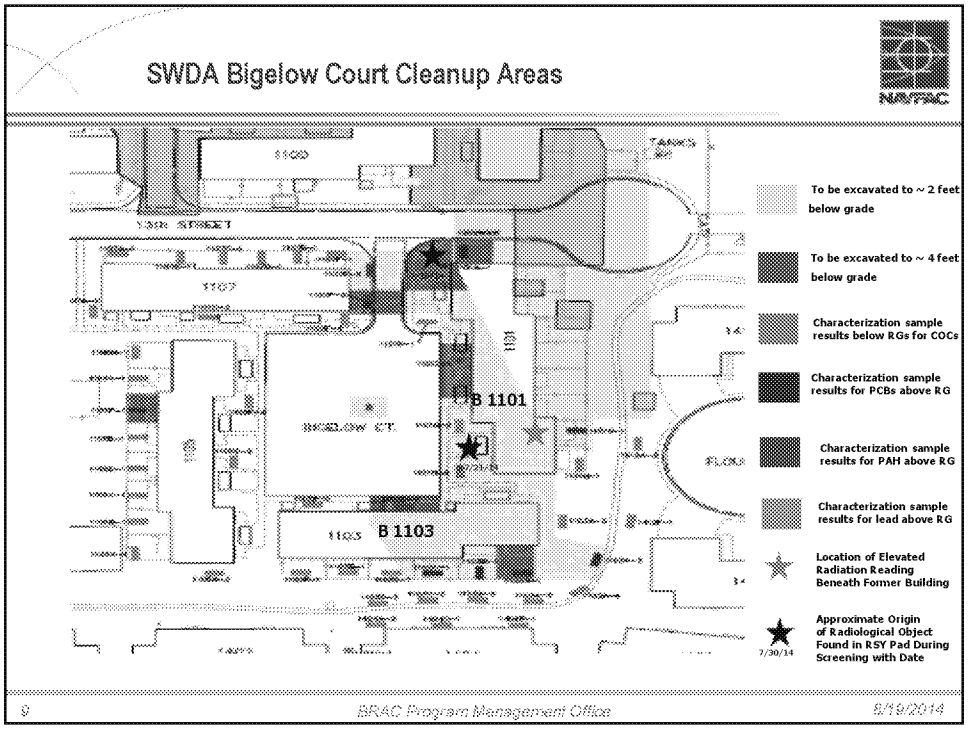
Buildings are being removed to allow for the investigation and excavation of contaminated soils beneath the structures

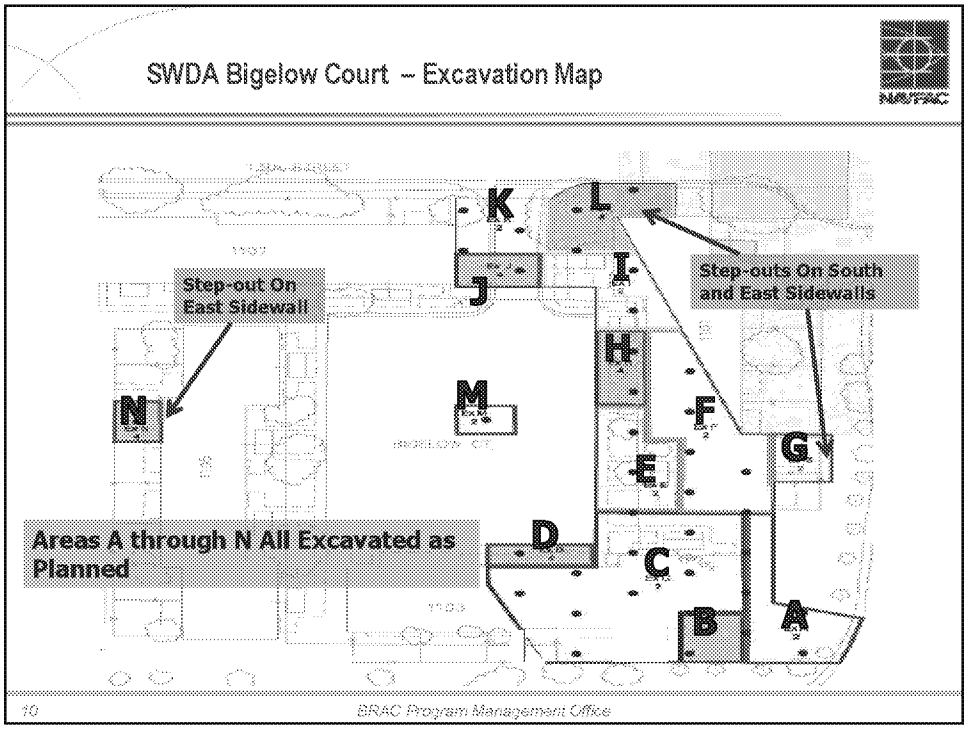
Buildings located in SWDA Westside, SWDA Bayside, SWDA North Point
1119, 1125, 1319, 1207, 1209, 1211, 1213, 1231, & 1233

- Prior to demo, all buildings will undergo asbestos removal
  - Began on August 11 in building 1125, and will continue at buildings 1119 and 1319
- Building demolition is scheduled for September 2 - October 24
  - Start at SWDA Westside; complete in SWDA North Point
- In January 2015, the Navy will be excavating and removing any contamination that may be present under these buildings

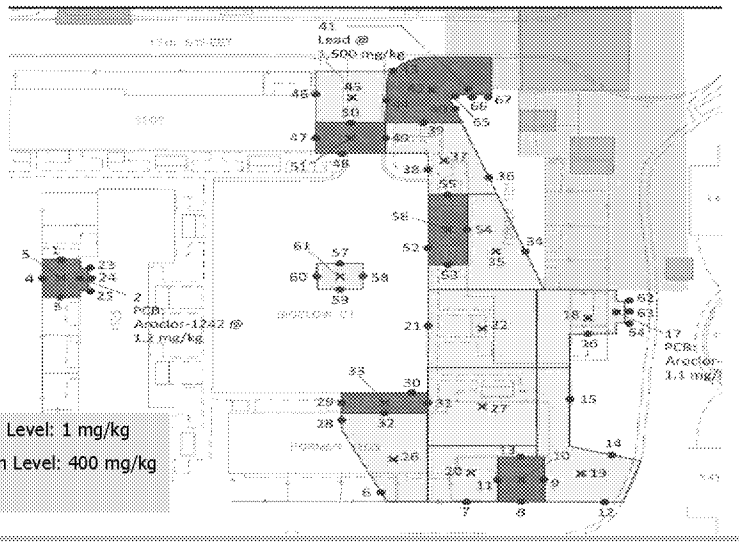
SWDA Bigelow Field Work Status

- On July 21 and 30, two radiologically elevated areas were found on RSY pads.
  - Two objects removed
- Planned excavation extent has been met (map on separate slide)
  - Performed step-outs in Area L (lead) and Area G (PCBs)
- Four radiological screening pads are currently filled with 1,700 cubic yards of excavated soil
- Radiological scanning and sampling completed on three screening pads
  - Fourth pad used for soil from step-outs and soil/gravel sorting.
  - Awaiting gamma spec analytical data
- All chemical and radiological confirmation samples collected,
  - ~90% of chemical analytical results received
  - radiological analyses are pending.


SWDA Bigelow Court Cleanup Areas
B 1101
B 1103
To be excavated to ~ 2 feet below grade
To be excavated to ~ 4 feet below grade
Characterization sample results below RGs for COCs
Characterization sample results for PCBs above RG
Characterization sample results for PAH above RG
Characterization sample results for lead above RG
Location of Elevated Radiation Reading Beneath Former Building
Approximate Origin of Radiological Object Found in RSY Pad During Screening with Date
7/30/14
9
BRAC Program Management Office
8/19/2014


SWDA Bigelow Court – Excavation Map
Step-out On East Sidewall
Step-outs On South and East Sidewalls
Areas A through N All Excavated as Planned
A
B
C
D
E
F
G
H
I
J
K
L
M
N
10
BRAC Program Management Office

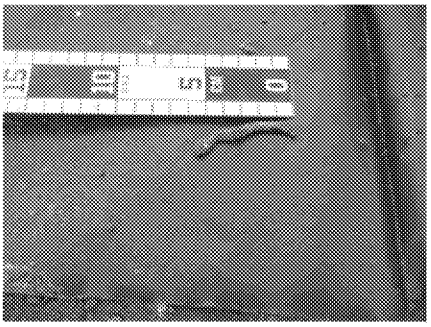
SWDA Bigelow Court – Chemical Confirmation Sample Map



PCB Action Level: 1 mg/kg

Lead Action Level: 400 mg/kg

SWDA Bigelow Court Object Removal



July 21 (copper pipe segment) – origin Excavation Area E.
Dose reading with NaI detector was 26 uR/hr at 12 inches

July 30 (metal fragment) –origin Excavation Area L2.
Dose reading with NaI detector was 10 uR/hr at 12 inches

SWDA Bigelow Court Excavation

Screening rock from soil in the excavation areas

Gamma survey in Excavation Area D

SWDA Bigelow Court Excavation

Excavation in area L

Sidewall sampling location

SWDA Bigelow Court Cleanup Schedule

- **In Progress** (May 15 – Early September): Cleanup Field work
- **October 2014:** Draft Characterization Report/Final Status Survey Work Plan
- **March 2015:** Draft Post Construction Summary Report/Radiological Survey Report

QUESTIONS?