8-21-06 - New Haven Depot site visit

0715 - Arrived on site, check-in w/security
Met Nikki Herther, showed document boxes to go through, got started going through documents

Commodities of ~~Interest~~
- Baddelyite Ore (Zirconium Oxide)
- Bastnasite
- Monazite
- Sodium Sulfate
- Vanadium Oxide
- Colombium ores + Concentrates

People of Interest (Interview Potential)
- Bill Till
- Nikki Herther
- Mike Pecullan
- Robert Skruck
- Lois Huddleston
- John Olszewski

1130-1200 - Lunch

Impromptu
Interview w/Mike Pecullan: (1400)

- Pile/scale/areas in between
  ↑ Thinks will be the big problem

- Building contents being consolidated into 214 – 214 unavailable currently – before being shipped off

- NRC wants soil samples

- 10% Tungsten licenseable
- 50% Columbium tantalum
  ↳ Before 1996, never checked
  Vanadium oxides – barely licenseable

* Bays not listed on given inventory may not contain material radioactive enough to ~~contain~~ be licenseable

Of ones that are licenseable, they are only just barely licenseable

Tantalum → ores/concentrates, natural minerals
→ Usually processed (not licenseable as radiation is removed during processing)

1600 – Site closing down for day

8-22-06 - New Haven Depot Site Visit

0715: Arrived on site, continue going through boxes

1100: Finished going through set aside boxes - Plan for rest of today will be to go through documents on shelf, and check for addl docs and try to conduct interviews or at least set up interviews, come up w/plan for site tour
- Wed plan - Interviews/Site Tour/Photos/Photograph samples
- Thurs plan - Meeting/Site Tour w/representative/Photos/Screenings, etc.
- Fri plan - Whatever's left - Clean-up, return files, etc.

1130-1200: Lunch

Mike says
1330: WH-214 - sealant on floor
can't get in until April

214-1
214-4

214-3, 214-2 > all encapsulated
↑
might screw up alpha survey

- Chromium/Lead not going to be a problem
- Hg contamination from leak in warehouse not extensive

~~211-215 + old office~~

Lois says of buildings/areas in question:

7A - Present
200 - ~~Gone~~ Sold long ago (1970's) - Not survey
201 - ~~Gone~~ Sold long ago (1970's) - Not survey
Old office - Present
207 - ~~Gone~~ Sold long ago (1970's) - Not survey
141 - ~~Probably~~ falling down
145 - ~~Present~~ Gone
146 - ~~Probably Gone~~ Present
210 - Turned over to GSA, but still will be surveyed
211 - Present
212 - Present
213 - Present
214 - Present
215 - Present

Additionally
(124 and Track 12)
(Weigh Station)
(Tracks from 7A to Weigh station and Road

* See if we have Preliminary Assessment from January 1999 electronically - we almost certainly do, but if not, Mike P. will send

- Mike P. also has another CD's worth of information he is toying to copy for us

- Figure with survey units
  Red: Travel lines
  Yellow: Loading areas
  Green: Storage Areas

1530: Finished going through document boxes/shelves - Discussion w/John O. about plans for rest of week

1600: Site closes

8-23-06 New Haven Depot Site Visit

0715: Arrived on site

0730: Site Tour w/Mike + Lois through 1000

- Office buildings (136) falling apart
- 141 + 146 (145 footprint)
- 7A Area (Rail spur is southern border of pile)
- didn't see 200, 201, 207 (not part of survey anyway)
- Weigh stations (potential for spilled material from cars)
  - East of scale - dumped in front of Bays 3+4 (213)
  - Too Heavy → taken out and dumped for front loader - looks pretty clean now
- 210: Nasty; roof falling in at Sec. 1 (No electricity anywhere probably need lights) Sec. 2, 3, 4 OK
- 211
- 212 } No issues, all empty
- 215 → Sec. 4 SE corner stores fluorspar acid grade, in wooden bin blows all over building
- 214 } Contractors doing work on
- 213 } sealing floor

Still in use process of transferring contents into 214 for ultimate removal

214-1 sandblasted and then sealed → like new

Picture Log

001 - Baddelyite ~~Sample~~ Sample
(Zirconium Dioxide)

002 - Tungsten Wolframite Sample

3 -
4 - } old office
5 -

6 -
7 -
8 - } 141 → didn't go in possibly unsafe
9 -
10 -

11 -
12 -
13 - } 146
14 -
15 -
16 -

17 -
↓ } 7A
30 -

31 - 7A Decon Area

32 -
↓ } 7A Bunds/Rail car path
37 -

38 -
↓ } Weigh Station
42 -

43-49 - 210-1

50-54 - 210-2

55-58 - 210-3

~~52-64-210-4~~
59-63 - 211-1
64 - 211-1
(3+4 same)

65-67 - 212
68-70 - 215-3-4
71-76 - 215-1-2
77-86 - 214
87-96 - 213

Tour notes:

- Fluorspar pile (may coarse trouble w/survey — use sodium iodide tube)

- 7A - hotspots (holes)

200' by 200' 214-3

standard warehouse size

taken down as stuff moved out

- No warning signs up on bays anywhere
  - Never dose rate problem
  - Volume issue

* Mike has HSA report from Curtis Bay that we can use as a guide

215 - Acid grade Fluorspar wooden bin
dust on floor
might affect reading

214-4 : Hg in there

Mike mentions using instruments to reach high places (walls, etc.)

214 - 1, 4 done
3 will be
2 maybe

} Contractor flooring seal

Asbestos sealant
move out contents,
decon/clean, plastic up,
seal floor
probably cleaned any residual radioactivity

213 - moving stuff out, probably not done by time we need to be there (maybe if we do last)
↳ different survey unit

* Open areas, empty warehouses, demolished buildings, falling apart buildings, used buildings

Possible priority

1000 - through 1130 Analyzed pictures taken, compiled information from site tour

1130 - 1200 : Lunch

1200 - 1600 : Interviews with site personnel

- John Olszewski
- Mike Pecullan
- Richard Whitman
- Lois Huddlestun
- Nikki Horther
- Dale Arnos
- Warren Flood

only other one to get:

- Snow? (Tomorrow 8-24)

1600: Site closing down

Mike's titles:

- Project Manager DNSC ORPP
- Deputy Manager of Occupational Radiological Protection Program
- Environmental Protection Specialist

DCGL Derived Concentration Guideline Level
Res Rad
Screening Limit

55-38 -

8-24-06: New Haven Depot Site Visit

0700: Arrived on site
through Came up with list of bldg/areas
1100
- 7A (And tracks/roads leading to weigh station)
- 136 (Old office)
- 141
- 145 (Demolished - Survey footprint?)
- 146
- 124 (and track 12) - Shrink wrapping area
- Weigh Station Area
- 210 (GSA building - still to be surveyed)
- 211 (Sec. 1 - not empty)
- 212
- 213 (Sec. 1 - not empty)
- 214 (can't get in until April)
- 215
- Coal Pile (Coke)

} Only identified bays on sheet

- Got more files from Mike - including CAD files from Parsons
- 1100 meeting postponed due to attendee travel issues
  ↳ Abbreviated meeting to occur at 1 PM

1100-1200: Lunch w/ Mike P., Greg, John, + Mike B.
1200-1300: Greg + Mike B. took John on site tour to show what we learned from Lois + Mike P. yesterday

1300: Meeting w/ John, Greg, Mike, Lois, Mike, Cam, Nikki

Schedule:

1 - HSA (Report within 3 weeks) 9-6

2 - Scoping > Combining (October)

3 - Characterization (Plan mid-october) November

4 - Remediation Plan (February 2007)

(NRC Review) DCGL?

5 - Remediation (7A + Areas) (Default or Site-specific?)

(April 2007) - (June/July 2007) depends on NRC

6 - Scope/Charac. - Bldg. 214 (Mid-April)

7 - 211-1, 213-1 → Scope/charac. ↓

8 - Final Status Survey Plan (FSS) Draft Mid-October

9 - FSS Plan Final

10 - FSS Class II/III (Before NRC Approval?)

11 - FSS Class I

214-3: Shot-blast floor, then encapsulent epoxy, overhead sprayed

214-2: Encapsulated 213-2: Top to bottom ↳ Also, spill of R.E.

↳ Biased measurements in cracks/expansion joints

- Containerized unknowns?

Monazite in Burlap bags (dust) 214-4: Just vacuumed and sealed

↓

Mercury spill - reason

asbestos - reason for all others

Any potentially inclear - Class 3

L Stuart Bland Chesapeake Nuclear

Scans on Paint

Blasting Mining - Fluorospar information

Didn't inventory until sampling

8-25-06 - New Haven Site Visit

0900 - Arrived on site

0900 - 1000 : Drove around to take pictures of fluorspar piles and Bldg 124 (with nearby tracks) and to try and locate coal (coke) pile
- Coal pile must either have been completely cleaned or completely under cover of vegetation as we were unable to locate it
- Fluorospar piles were noted on the map

Pics 97-98 : Pile 319A
99-101 : Bldg 124
102-104 : Pile 318
105-107 : Pile 319

1000 - 1200 : Copied historical photos
Had to go to New Haven Public Library to copy files on floppy disk

1200 - 1300 : Lunch

1300 - 2100 : Drive to airport, fill up rental car w/gas, Flight home

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Kinko's
423 W Coliseum Blvd Ft. Wayne
496-8575

Library
200 E. Berry St. Ft. Wayne
421-1200

648 Green St. New Haven
421-1345

New Haven Depot
Radioactive Material Locations

2/22/2006

Commodity	7A ✓	200 X	201 X	Office ✓	207 X	141 ?	145 ?	146 ?
Bastnasite			X	X				
Columbium Tantalum		N Dock, 5-72	N-30		X			
Monazite			X	X	X			
Rare Earth		X		X				
Tungsten								
Zirconium	X			X		X	X	X

Sodium Sulfate

Sold long ago

Sold long ago

Sold long ago

Probably falling down

[illegible] good check footprint?

[illegible] kind of falling down

Commodity	210 · 1	210 · 2	210 · 3	210 · 4	211 · 1	211 · 2	211 · 3	211 · 4
Bastnasite								
Columbium Tantalum	1, 2, 13, 14, 21-27, 31, 41, 44, 51, 61, 71-75	2, 11, 21		2-5, 8-9, 12-14, 32-33, 35, 43, 45-46, 48, 52-54, 56, 58, 76	X	X		
Monazite		X						
Rare Earth								
Tungsten	X	X	X		X	X		
Zirconium								

Turned over to GSA, but still will be MARSSIM surveyed ✓

won't be empty

Commodity	212 · 1	212 · 2	212 · 3	212 · 4	213 · 1	213 · 2	213 · 3	213 · 4
Bastnasite					X			
Columbium Tantalum	11, 31, 37, 41, 51, 61, 71	11, 12, 21			X		11, 21, 19, 29	1, 9, 11, 15, 21, 31, 38-39, 41, 51, 59, 67, 69, 75, 78, 79
Monazite						12, 13, 15, 16		
Rare Earth								
Tungsten					X			
Zirconium					X			X

won't be empty

✓

* Areas to check out on site tour (look for caution signs in bays, etc)

Green = possible licensed material
Blue = known licensed material
Red = Licensed material noted on LH spreadsheet

(possibly based on activity ~~[illegible]~~ ?)

as we know materials themselves are licensed

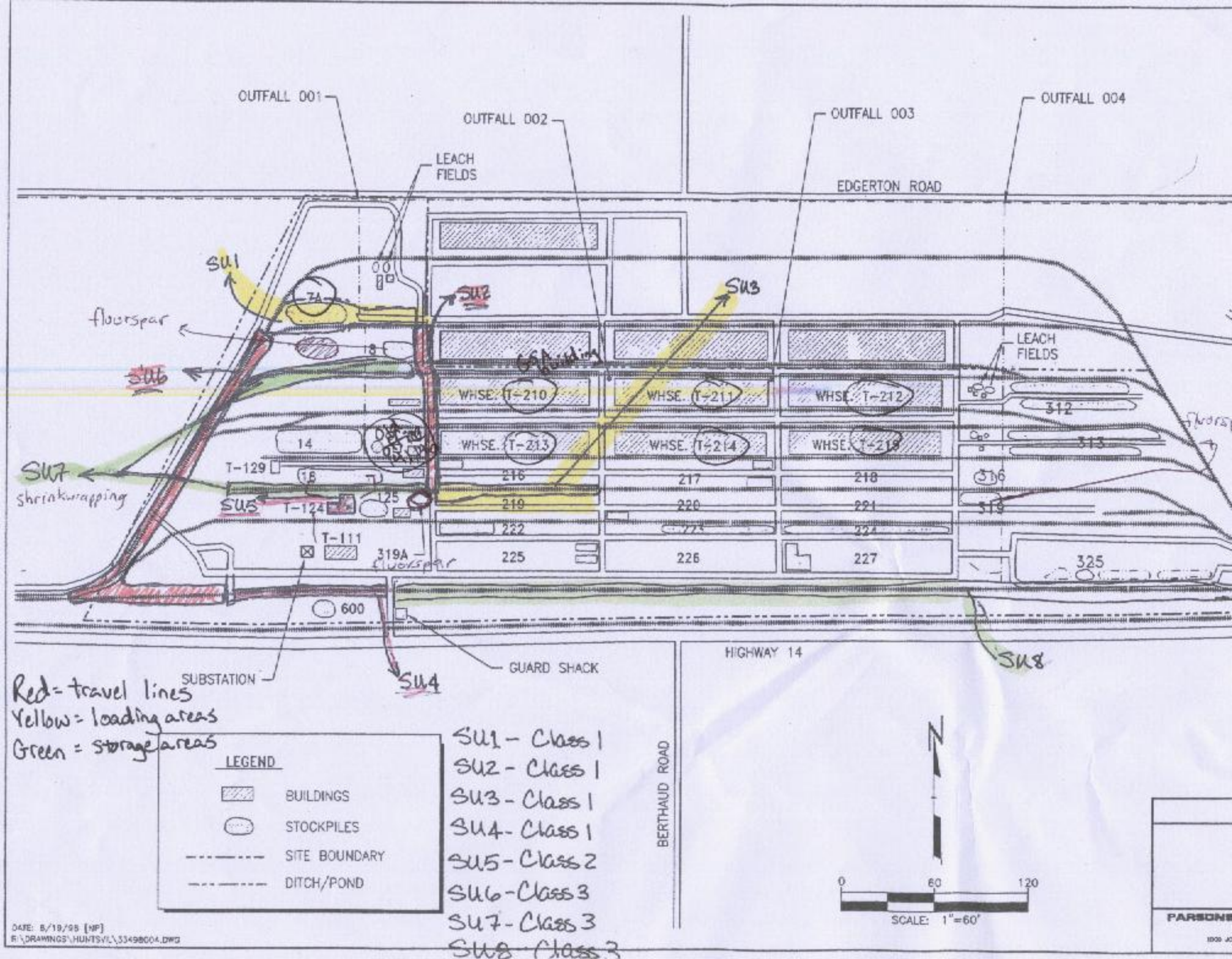
New Haven Depot
Radioactive Material Locations

2/22/2006

Commodity	214 •				215 •			
	1	2	3	4	1	2	3	4
Bastnasite	X		3		2-4, 12-13			15, 19, 29, 51-56, 61-65, 68, 71-79
Columbium Tantalum		X	9, 13-16, 17, 18, 26-28, 34, 37-38, 41-44, 77	11, 21, 31 41-43, 45, 51, 59, 61, 69, 75-79				
Monazite		X			11, 22, 23, 25-29, 34-37, 41, 44-45			
Rare Earth			3-6, 8, 12-13, 15-18, 22-28, 31-33, 35-38, 48, 56-57, 75		43, 62, 73-75	36, 41-42, 46, 52-54, 62-63		
Tungsten	X	X	36	X				
Zirconium								

epoxy sealant

Green = possible licensed material
Blue = known licensed material
Red = Licensed material noted on LH spreadsheet



Red = travel lines
Yellow = loading areas
Green = storage areas

SU1 - Class 1
SU2 - Class 1
SU3 - Class 1
SU4 - Class 1
SU5 - Class 2
SU6 - Class 3
SU7 - Class 3
SU8 - Class 3