IN REPLY REFER TO:

United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
Pacific Regional Office
2800 Cottage Way
Sacramento, California 95825

MAR 2 5 2010

Mr. Thomas P. O'Rourke
Chairperson, Yurok Tribe of California
P. O. Box 1027
190 Klamath Blvd.
Klamath, CA 95548

Dear Mr. O'Rourke:

We have conducted an Environmental Site Assessment and completed an Updated Phase 1 Contaminant Survey report as required by 602 DM 2 for the Requa Air Force Station Radar site parcel (NPS deed listing tract number 03-165) regarding the radar site transfer request package. A copy of the Updated Phase 1 report is enclosed for your files and the original report has been sent to the Pacific Regional Realty Officer.

If you have any questions, please contact Larry Blevins, Environmental Protection Specialist, at 916-978-6037 or John Rydzik, Chief, Division of Environmental, Cultural Resource Management and Safety at 916-978-6051.

Sincerely,

Acting Regional Director

Enclosure

cc: Realty Officer, Pacific Region (no enclosure)

Received YUROK TRIBE - NEC
MAR 2 9 2010

Updated Phase I Survey:
Contaminant Survey Checklist
for Proposed Property Transfer
(Rev. 9/2002)

COPY

INSTRUCTIONS: Check for each category. Explain briefly where something other than "no", "None", or "Not Applicable" is checked. Discuss whether a Phase II or III Survey will be recommended. Describe the distance if nearby is checked and whether there is a known potential pathway for contamination on site. Attach a legal description of the real estate property covered by this Survey.

A. Background Information

Bureau Name: Bureau of Indian Affairs, Pacific Region Office

Site Name: Requa AF Radar Site (Atch 1) **County:** Del Norte **State:** CA

APN: NPS deed listing tract number 03-165 (Atch 2) **Acres:** 1.922

Reservation: Yurok **Date of Survey:** 2/25/2010 **By:** Larry Blevins/Ray Martel

B. Site Inspection Screen:

	On Site	Near-by	None
1. Dumps, radioactive materials, hazardous waste, especially with drums or containers (Read labels if possible; DO NOT open or handle! If no labels, note identifying characteristics)	___	___	_X_
2. Other debris: household, farm, industrial waste	___	___	_X_
3. Fills: possible cover for dumps	___	___	_X_
4. Unusual chemical odors	___	___	_X_
5. Storage tanks: petroleum products, pesticides, etc. (Previous Use)	___	___	_X_
6. Buildings: Asbestos materials, radon, lead based paint, chemical storage, equipment repair, solvents	___	___	_X_
7. Structures – evidence of asbestos sprayed fire proofing, acoustical plaster, also see #6 above	___	___	_X_
8. Vegetation different from surrounding for no apparent reason, e.g. bare ground	___	___	_X_
9. "Sterile" or modified water bodies	___	___	_X_
10. Oil seeps, stained ground, discolored stream banks	___	___	_X_
11. Oil slicks on water, unusual colors on water	___	___	_X_
12. Spray operation base: airstrip, equipment parking area	___	___	_X_
13. Machinery repair areas	___	___	_X_
14. Pipelines or major electrical equipment	___	___	_X_
15. Oiled or formerly oiled roads	___	___	_X_
16. Electric transmission lines: pole or pad mounted transformers (any leakage?)	___	___	_X_

C. Record Searches (Coordinate with Realty Title Search, and Other Appropriate Searches.)

1. Past uses which might indicate potential problems at the site (CIRCLE any that are applicable.)
   Manufacturing, service stations, dry cleaning, air strip, pipelines, railroad lines, facilities with large electrical transformers or pumping equipment, petroleum production, landfills, scrap metal, auto, or battery recycling, military, labs, wood preserving, other
   Describe:_____ None _X_

2. Nearby land uses, especially upstream or up gradient, or that might have had waste to dump at site (see list under Past Uses)
   Identify: _____ None _X_

3. Known contaminant sites in vicinity NPL, state sites, candidate sites (check with EPA; State EPA counterpart) Yes _ X _ No _

4. Interviews on past use: owners, neighbors, County agents and any appropriate Federal Authorities: Problems: Yes _X_ No __

5. Agricultural drainage history: surface, subsurface drains. Yes ___ No _X_

D. In acquiring land from another Federal agency, that agency has notified the Department of the past or current presence of a hazardous substance under Section 120(h) of CERCLA (Superfund).

Not applicable __ Yes _X__ No ___

E. Has a non-Federal entity identified any Hazardous materials problems on or near The site surveyed? Yes _X__ No __

F. A Phase II Study is recommended. Yes ___ No _X_
A Phase III Study is recommended. Yes ___ No _X_

G. Required Supplemental Information

ALL ATTACHMENTS ARE ATTACHED IMMEDIATELY BEHIND THIS PAGE.

Attachment A.

Review consultants Phase 1 report and your narrative description of the parcel and any contamination sites, justification for your certification, aerial and ground parcel site color photographic prints and also maps illustrating potential contamination site locations thereof, etc.

ATC Draft-Asbestos Debris Investigation Former Air Force Radar Station Location (Investigation Area 1A-7) 11/11/2008
ATC Oversight Report for Removal of Asbestos Containing Debris Former Air Force Radar Station Location (Investigation Area IA-7) (FUDS) 9/15/2009
ATC IA-7 Oil/Water Separator Outfall Evaluation Requa Formerly Used Defense Site (FUDS) Yurok Reservation Requa, California 3/17/2010

Attachment B.

Aerial photographic prints and dates taken 10/17/2000

Attachment C.

Parcel site color photographic prints and date taken 2/25/2010

Attachment D.

Map showing location of potential contamination sites.

H. Potential Limits on Federal Liability

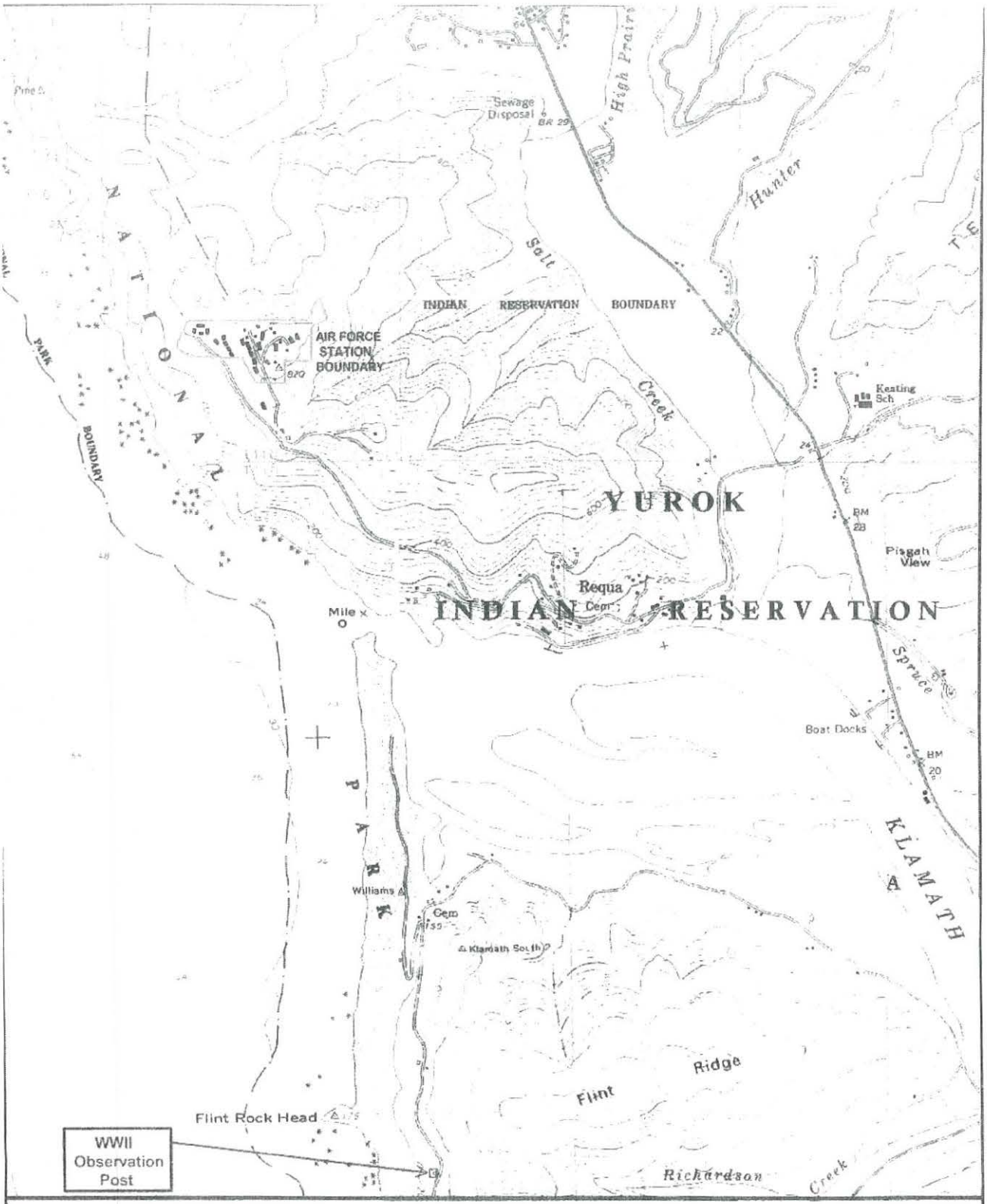
1. **Another Federal agency has certified that contaminants are not present on the site and/or agreed to assume full liability for any contamination that does exist. (Attach copies of documents for review by the Office of the Solicitor.)**

   Identify:____NONE _ _____

2. **An individual or non-Federal entity has certified that contaminants are not present on the site and/or agreed to assume full liability for any contamination that does exist. (Attach copies of documents for review by the Office of the Solicitor.)**

   Identify:____NONE _____

Attachment 1



Requa Air Force Station
FUDS No. J09CA0003
South 1/2 Section 32
Township 14 North, Range 1 East
Del Norte County, California

Requa Air Force Station Boundary
Yurok Indian Reservation Boundary

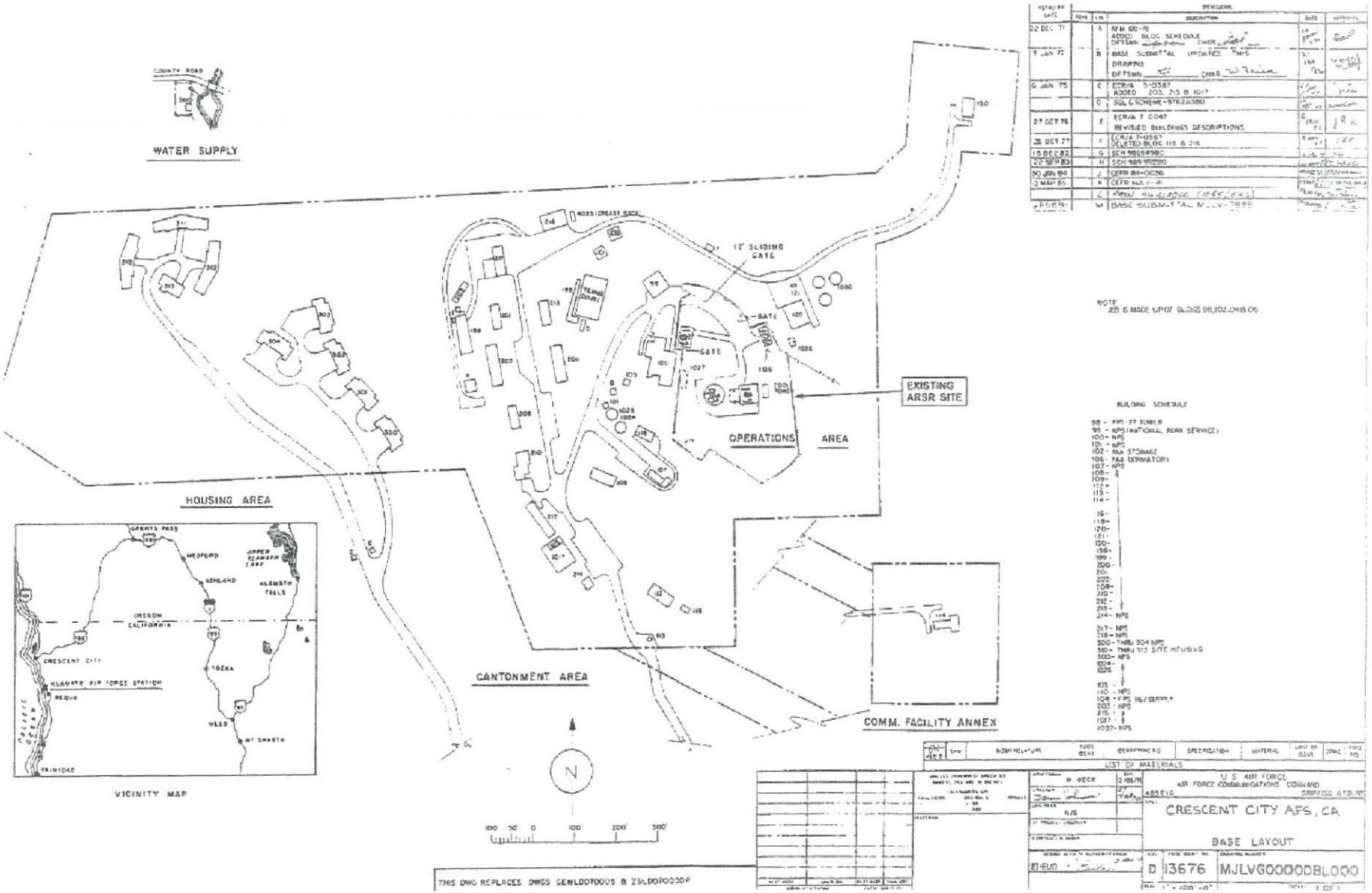
Scale (miles)
0 0.25 0.5

N W E S

Source: USGS 7.5 Minute Series Topographic Map, Requa California 1966

HECMSEH PROFESSIONAL ASSOCIATES, INC.

Attachment 2


WATER SUPPLY
HOUSING AREA
CANTONMENT AREA
OPERATIONS AREA
COMM. FACILITY ANNEX
EXISTING ARSR SITE
12' SLIDING GATE
GATE
VICINITY MAP
CRESCENT CITY
KLAMATH AIR FORCE STATION
REDWOOD
KLAMATH FALLS
OREGON
CALIFORNIA
TRINIDAD
MT SHASTA
N
100 50 0 100 200' 300'
THIS DWG REPLACES DWGS GEWLD070005 & ZSLD070005P
LIST OF MATERIALS
U.S. AIR FORCE
AIR FORCE COMMUNICATIONS COMMAND
CRESCENT CITY AFS, CA
BASE LAYOUT
D 13676
MJLVG00000BL000

Attachment A

Yurok Reservation Updated Phase 1 Survey Narrative
Requa Air Force Station Radar Site
NPS deed listing tract number 03-165

An Updated Phase 1 site inspection for contaminants was completed by the Bureau of Indian Affairs (BIA) in regards to a transfer of property to the United States on behalf of the Yurok Tribe of California. The property is located at 1409 P.J. Murphy Memorial Drive, Klamath, CA within the Yurok Reservation in Del Norte County, California Section 32, Township 14 North, Range 1 East of Humboldt Base Meridian. The subject Radar Site parcel is identified as National Park Service deed listing tract 03-165, which comprises approximately 1.922 acres of the 52 acres Requa Air Force Station. An initial Phase 1 survey for the entire Requa Air Force Station was completed on 31 January, 2002 by Tecumseh Professional Associate, Inc for the Yurok Tribe and a Supplemental Vertical Profiling Report by EM Assist dated February 2003. An initial Phase 1 Contaminant Survey was completed again by the BIA on July 27, 2005. The purpose of the Phase 1 survey inspection was to identify environmental conditions and possible hazardous material that may pose a risk to human health or to the environment, or in any way affect the use of the subject property.

An aerial photograph and county assessors map was reviewed and interviews were conducted with tribal members, staff and consultants. Documentation was reviewed involving previous cleanup and facility removal during disposition. The subject updated property inspection was conducted on February 25, 2010 for purposes of investigating the potential for existing sources of contamination on or near the subject property. The property presently consists of concrete slabs from the previous radar facility, Building 98; garage and storage room, building 102; single-story dormitory-style living quarters, building 106; and utility building 104. These building can be seen in Figure 11-1 of the attached ATC Oversight Report for Removal of Asbestos Containing Debris Former Air Force Radar Station Location (Investigation Area IA-7) (FUDS) dated September 15, 2009. Some of the radar site is presently being used as storage area for 3 boats owned by the Yurok Tribe. The eastern and southern margins of the property are wooded with coniferous trees. No contaminants or obvious sign of effects from contamination were observed during the site assessment. No evidence of aboveground or underground storage tanks, electrical transformers or other equipment that contain PCB's was observed.

Previous investigative documentation, the attached Draft – Asbestos Debris Investigation Former Air Force Radar Station Location (Investigation Area IA-7) Requa Formerly Used Defense Site (FUD), identified small amounts of asbestos material scattered around the site. The attached ATC Oversight Report for Removal of Asbestos Containing Debris dated September 15, 2009 established comprehensive removal of all asbestos debris by LVI services and a follow-on visual clearance of the area were performed by ATC to ensure that all visible debris was removed from the concrete slabs foundations and surrounding area. The waste was then transported to the Altamont Landfill located in Livermore, California. Earlier reports also indicated that some soil contaminated with petroleum products were at approximately 10 feet below ground surface. The contaminant of concern is total oil and grease (TOG) adjacent to the former location of

the oil/water separator (OWS). The residual TOG does not pose an impact threat to groundwater as stated in the attached ATC IA-7 Oil/Water Separator Outfall Evaluation dated March 17, 2010. The results of the human health risk screening demonstrated that concentrations of TPH as diesel and TPH as oil may pose an odor or nuisance in cases of human occupancy of the site, but no unacceptable carcinogenic or non-carcinogenic human health impacts are anticipated. The results of the Remedial Investigation and Human Health Risk Assessment indicate that the residual petroleum hydrocarbons detected during 2005 in soil samples collected near the outfall for the abandoned oil/water separator, also does not pose a risk to human health.

The Requa AF Station radar site is approximately 1.922 acres and is located at the crest of an 840+ foot hill within the Redwood National Forest; however the site is not considered public park land, public recreation land, wildlife refuge or waterfowl refuge. The property is not within a 100-year floodplain, nor was federal jurisdictional wetlands apparent on site. The predominant historic use of the subject property as well as the adjacent land was as an Air Force Radar Station and more recently as the National Park Service maintenance and storage area. The attached photograph, maps and supporting documentation is provided to support this Updated Phase 1. It is our determination that the documented contamination has been addressed and remedial treatment completed.

ATC ASSOCIATES INC

11825 SW Greenburg Road, Suite 2B
Tigard, Oregon 97223
www.atc-enviro.com
503.684.0525
Fax 503.624.0415

November 11, 2008

Mr. Ken Henderson
Environmental Program
Yurok Tribe
190 Klamath Boulevard
Klamath, CA 95548

RE: Draft - Asbestos Debris Investigation
Former Air Force Radar Station Location (Investigation Area IA-7)
Requa Formerly Used Defense Site (FUDS)
Requa, California
Yurok Reservation
ATC PROJECT NO.: 38.28580.0003

Dear Mr. Henderson:

At the request of the Yurok Tribe, ATC Associates Inc. (ATC) has prepared this Asbestos Debris Investigation report of the former United States Air Force (USAF) Radar Station located in Requa, California. The purpose of this survey was to investigate the potential presence of residual asbestos-containing material (ACM) remaining in the vicinity of the previously demolished USAF Radar Station.

SCOPE OF WORK

The scope of work for this project included a visual inspection for hazardous materials as well as the collection and analysis of suspect ACMs. ATC demarcated the approximately 180 by 120 foot investigation site into fifty-four 20' by 20' squares (See attached Site Plan & Grid Locations Plan). ATC conducted a visual survey of the ground surface and dug test holes to an approximate depth of the one foot below the ground surface. ATC collected samples of identified debris that was determined to be a suspect ACM.

VISUAL AND SUBSURFACE INVESTIGATION

ATC visually inspected the investigation area for evidence of building material debris. Various debris was visible throughout the entire investigation area but the majority of suspect building debris visible on the surface was located on the two concrete pads located in the center of the investigation area. Subsurface debris was noted in the area to the south and west of the western concrete pad and down the slope from the eastern concrete pad (See the Site Plan and Grid Locations diagram in Appendix A).

SAMPLING AND ANALYSIS

A total of thirty-nine (39) bulk samples were collected and sent to Hygeia Laboratories, Inc (Hygeia) for analysis using Polarized Light Microscopy (PLM) in accordance with EPA "Method for the Determination of Asbestos in Bulk Building Materials" (EPA/600/R-93/116, July 1993). Hygeia is located in Sierra Madre, California, and is registered as an American Industrial Hygiene Association-accredited and National Voluntary Lab Accreditation Participation (#102116-0)-accredited laboratory.

FINDINGS

The following table represents the building materials identified and sampled during this survey:

TABLE 1 – BULK SAMPLE RESULTS

Sample No.	Homogeneous Material	Sample Location (Section)	Asbestos Content
1A	Caulking-White	18	ND
1B	Caulking-White	39	ND
1C	Caulking-White	14	ND
2A	Plastic Like Material-Black	18	ND
3A	Plastic Like Material-Black	18	ND
4A	Paint on Concrete-Blue & Beige	36	ND
5A	Stiff Tar Paper Like Material-Black	54	ND
6A	Hard Slate Like Material-Black	53	ND
7A	**Textured Paint-White &Tan**	**38**	**<1% Chrysotile**
7B	**Textured Paint-White &Tan**	**50**	**<1% Chrysotile**
7C	**Textured Paint-White &Tan**	**14**	**<1% Chrysotile**
8A	**Rubbery Material –White & Green**	**52**	**<1% Chrysotile**
8B	**Rubbery Material –White & Green**	**21**	**<1% Chrysotile**
8C	**Rubbery Material –White & Green**	**14**	**<1% Chrysotile**
9A	Fibrous Panel-Green	52	ND
9B	Fibrous Panel-Green	51	ND
10A	Pliable Tar Paper-Black	39	ND

Sample No.	Homogeneous Material	Sample Location (Section)	Asbestos Content
10B	Pliable Tar Paper-Black	21	ND
11A	**Floor Tile-Beige & Black Mastic**	**21**	**Tile-<1% Chrysotile/ Mastic-5% Chrysotile**
11B	**Floor Tile-Beige & Black Mastic**	**41**	**Tile-<1% Chrysotile/ Mastic-5% Chrysotile**
11C	**Floor Tile-Beige & Black Mastic**	**31**	**Tile-<1% Chrysotile/ Mastic-5% Chrysotile**
12A	**Pebble Sheet Flooring-Beige**	**21**	**40% Chrysotile**
12B	**Pebble Sheet Flooring-Beige**	**3**	**3% Chrysotile**
13A	Cove Base-Black	21	ND
14A	Roof Tar-Black	21	ND
14B	Roof Tar-Black	Concrete Pad to NW of Investigation Area	ND
15A	Paint on Concrete-Green	17	ND
16A	Paint on Concrete-Gray	25	ND
17A	Expansion Joint Caulking-Black	Concrete Pad to NW of Investigation Area	ND
17B	Expansion Joint Caulking-Black	Concrete Pad to NW of Investigation Area	ND
17C	Expansion Joint Caulking-Black	Concrete Pad to NW of Investigation Area	ND
18A	Fiberglass Like Material-Tan	15	ND
19A	Mag or Drywall Like Material-White	15	ND
19B	Mag or Drywall Like Material-White	27	ND
19C	Mag or Drywall Like Material-White	28	ND
20A	**Floor Tile-Beige**	**28**	**2% Chrysotile**
21A	Soft Concrete Like Material	15	ND
21B	Soft Concrete Like Material	28	ND
22A	**Joint Compound Like Material-White**	**31**	**<1% Chrysotile**

ND = Non-detect

IDENTIFIED ASBESTOS CONTAINING MATERIALS

The following materials were identified as asbestos containing.

- **Textured Paint-White &Tan**
- **Rubbery Material –White & Green**
- **Floor Tile-Beige & Black Mastic**
- **Pebble Sheet Flooring-Beige**
- **Floor Tile-Beige**
- **Joint Compound Like Material-White**

Grid locations are shown on the Site & Grid Locations diagram located in Appendix A. Copies of ATC's bulk sample logs and laboratory analysis reports are provided in Appendix B.

CONCLUSIONS AND RECOMMENDATIONS

ATC identified various asbestos containing materials apparently associated with the former USAF radar station located at the site. ATC recommends that all building material debris including buried debris in the identified areas (See Site Plan & Grid Locations in Appendix A), be treated as an ACM and be removed from the site by a qualified contractor per all federal, state and local regulations.

LIMITATIONS

Reasonable effort was made by ATC personnel to locate and sample suspect materials in the investigation area. However, the existence of unique or concealed ACM and associated debris is a possibility. If additional suspect ACMs are discovered they should be assumed to be asbestos containing until sampling and analysis proves otherwise. ATC does not warrant, guarantee or profess to have the ability to locate or identify all ACM within an area. The intent of this survey report is to inform the Yurok Tribe of hazardous materials that may be present within the investigation area.

If you have any questions regarding this report or require further clarification, please do not hesitate to contact our office at (503) 684-0525.

Sincerely,
ATC Associates Inc.

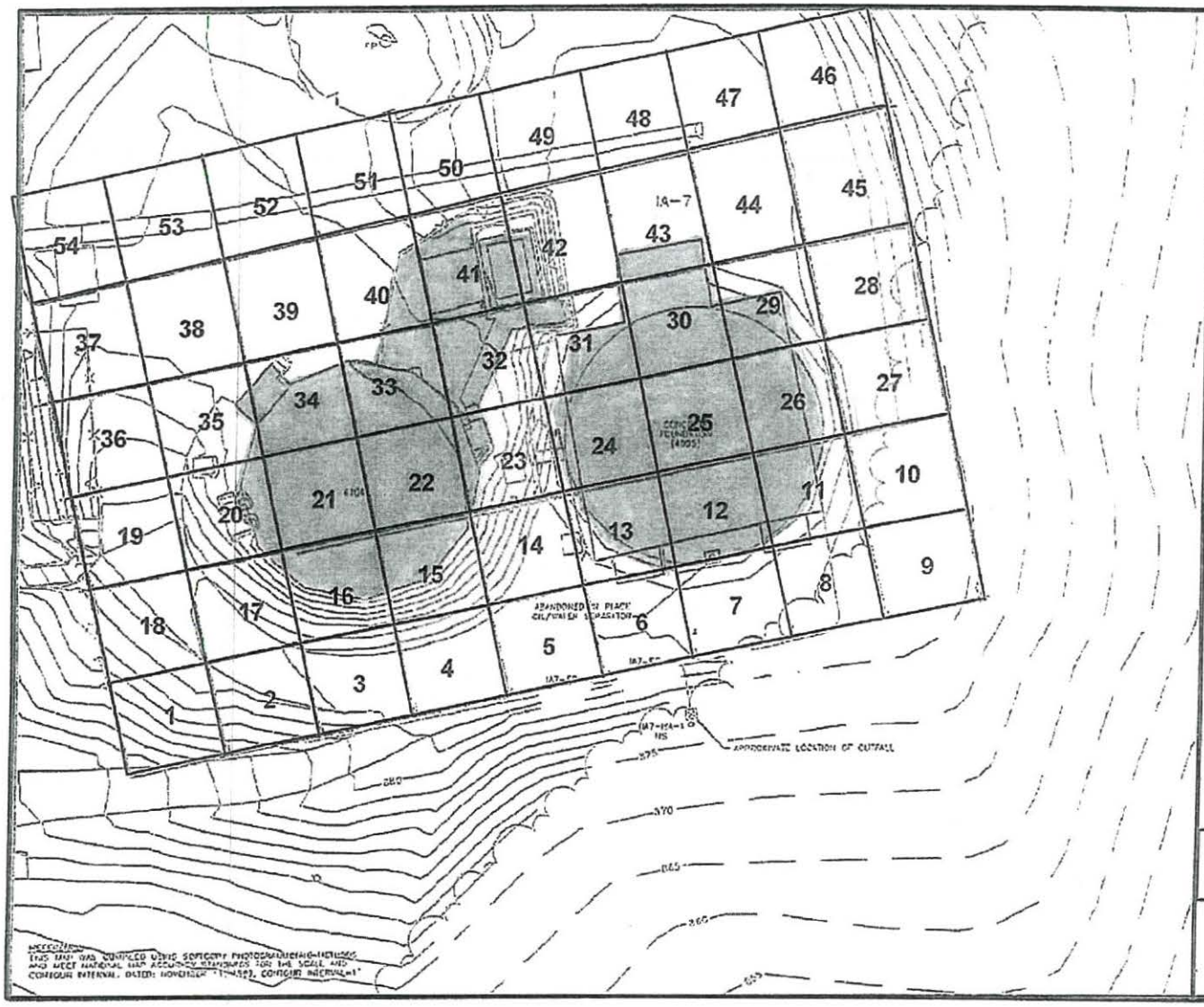
Ron Landolt, CSST #06-4114 Project Manager	Eloy Cisneros, CAC # 02-3136 Branch Manager (Pleasanton, CA)

Attachments:

Appendix A – Site Plan and Grid Locations
Appendix B – Photographs of Identified ACMs
Appendix C – ATC Bulk Sample Logs & Laboratory Analytical Reports

APPENDIX A

SITE PLAN & GRID LOCATIONS



Asbestos Debris Investigation
Former Air Force Radar
Station Location
(Investigation Area IA-7)
Requa, California
Yurok Reservation

Legend

- Concrete Pads
- Areas of Subsurface Debris

VATC

Site Plan and Grid Locations

APPENDIX B

PHOTOGRAPHS OF IDENTIFIED ACMS

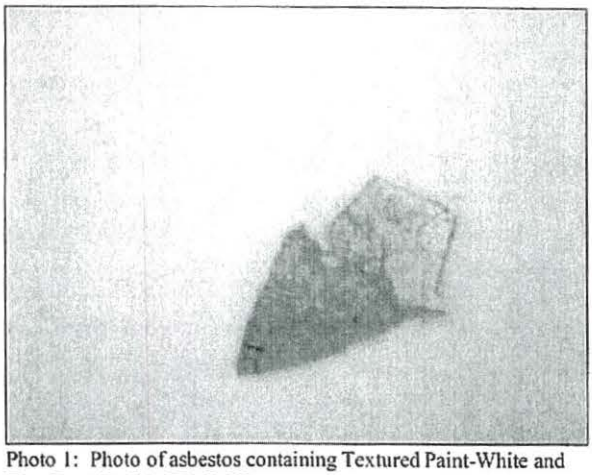


Photo 1: Photo of asbestos containing Textured Paint-White and Tan, Samples 7A, 7B, & 7C.

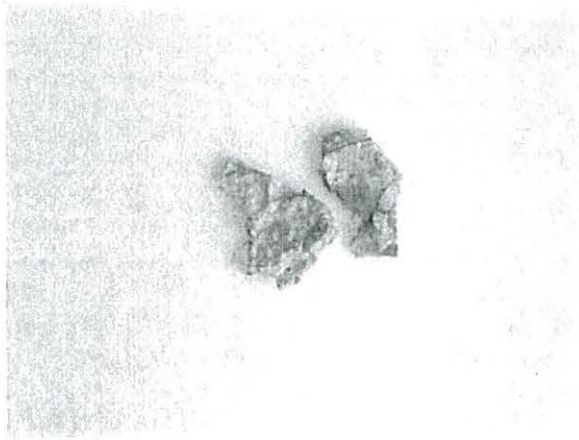


Photo 2: Photo of asbestos containing Rubbery Material-White and Green, Samples 8A, 8B, & 8C.

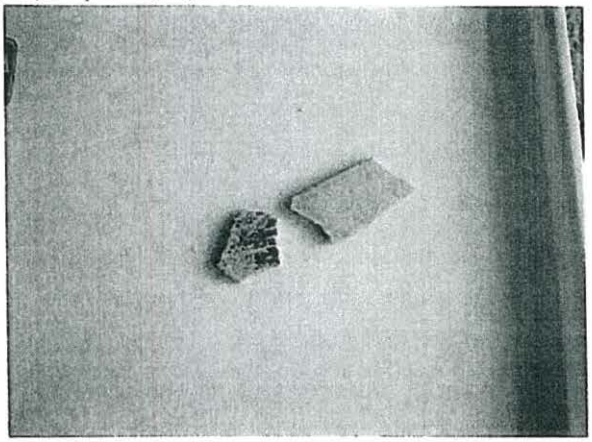


Photo 3: Photo of asbestos containing Floor Tile – Beige and Black Mastic, Samples 11A, 11B, 11C and 20A.

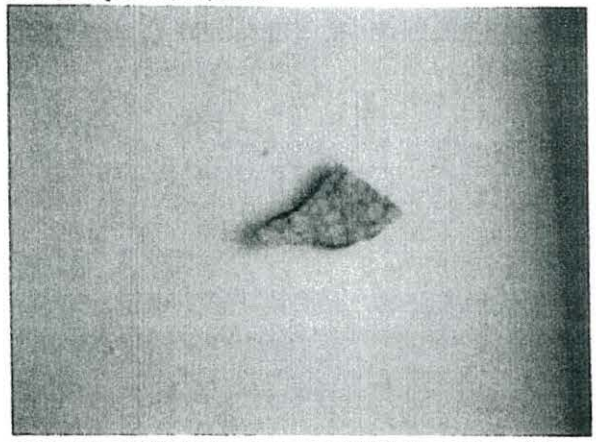


Photo 4: Photo of asbestos containing Pebble Sheet Floor - Beige, Samples 12A & 12B.

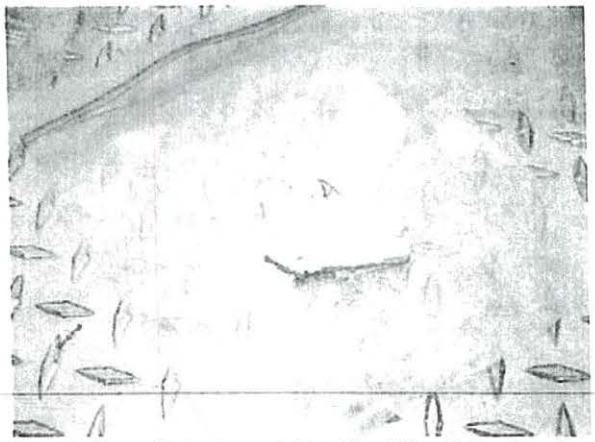


Photo 5: Photo of asbestos containing Floor Tile – Beige, Sample 20A.

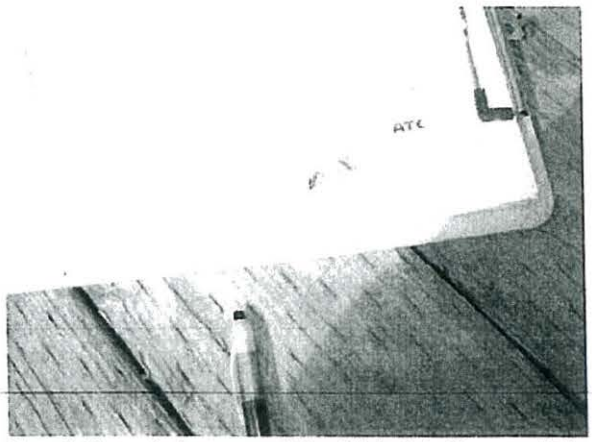


Photo 6: Photo of asbestos containing White Joint Compound Like Material, Sample 22A

APPENDIX C

ATC BULK SAMPLE LOGS & LABORATORY ANALYTICAL RESULTS

Hygeia Laboratories Inc.
82 W. Sierra Madre Blvd
Sierra Madre, CA 91024-2434
(626) 355-4711 (626) 355-4497 Fax

NIST/NVLAP Lab Code 102116-0
California ELAP Certificate No. 1269

Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

October 13, 2008

Mr. Bob Burns
ATC Portland
11825 SW Greenburg Road, #2B
Tigard, OR 97223

Samples Analyzed: 34
Sampler: B. Burns
Sample Condition: Acceptable

Hygeia Reference No.: 00038 08 0103
Date Collected: October 6, 2008
Date Received: October 8, 2008
Date Analyzed: October 12, 2008

Client Reference: 38.28580.0003 Yurok ACM Survey Debris

Client Sample ID / Hygeia Sample ID	Sample Description - color / *Comments*	Asbestos Type, %							Non-Asbestos Constituents, %									QC
		Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite	Organic Binders	Plastic	Paint		
1A 1149914	Caulking - white	No										15		85				
1B 1149915	Caulking - white	No										15		85				
1C 1149916	Caulking - white	No										15		85				
2A 1149917	Plastic-like material - green	No										10			90			
3A 1149918	Plastic-like material - green	No										30		70				
4A 1149919	Paint - green/tan	No										20				80		
5A 1149920	Tar paper - black	No							50			10		40				
6A 1149921	Slate-like material - black	No							30					70				
7A 1149922	Texture coat - tan	Yes	< 1									40		60				X
7B 1149923	Texture coat - tan	Yes	< 1									40		60				
7C 1149924	Texture coat - tan	Yes	< 1						2		3	40		55				

Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

October 13, 2008

Client Reference: 38.28580.0003 Yurok ACM Survey Debris		Asbestos Type, %							Non-Asbestos Constituents, %								
Client Sample ID Hygeia Sample ID	Sample Description - color *Comments*	Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite	Organic Binders	Plastic	Paint	QC
8A 1149925	Rubbery material - tan/green	Yes	< 1									40		60			
8B 1149926	Rubbery material - tan/green	Yes	< 1									40		60			
8C 1149927	Rubbery material - tan	Yes	< 1									40		60			X
9A 1149928	Fibrous panel - green	No								80		5		15			X
9B 1149929	Fibrous panel - green	No								80		5		15			
10A 1149930	Tar paper - black	No							40	5	5	15		35			
10B 1149931	Tar paper - black	No							40	5	5	15		35			
11A 1149932	Floor tile - tan	Yes	< 1									80		20			
11A 1149932M	Floor tile mastic - black	Yes	5									35		60			
11B 1149933	Floor tile - tan	Yes	< 1									80		20			
11B 1149933M	Floor tile mastic - black	Yes	5									35		60			
11C 1149934	Floor tile - tan	Yes	< 1									80		20			

Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

October 13, 2008

Client Reference: 38.28580.0003 Yurok ACM Survey Debris

Client Sample ID / Hygeia Sample ID	Sample Description - color / *Comments*	Asbestos Detected	Asbestos Type, %						Non-Asbestos Constituents, %								QC
			Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite	Organic Binders	Plastic	Paint	
11C 1149934M	Floor tile mastic - black	Yes	5									35		60			
12A 1149935	Sheet flooring - tan	Yes	40									40		20			
12B 1149936	Sheet flooring - tan *Very little backing*	Yes	3									67		30			
13A 1149937	Covebase - black	No										80		20			
14A 1149938	Roofing tar - black	No								5		10		85			
14B 1149939	Roofing tar - black	No								15		10		75			
15A 1149940	Paint - green	No										10				90	
16A 1149941	Paint - grey	No										20				80	
17A 1149942	Joint caulking - black	No										30		70			
17B 1149943	Joint caulking - black	No										30		70			
17C 1149944	Joint caulking - black	No										30		70			

Microscopist - Fidel Gutierrez

The analyses of the samples in this report were performed using polarized light microscopy using the EPA method 600/R-93/116. The phase abundances provided are visually estimated and expressed as percent area. Total percentage of sample constituents may total greater than 100 due to trace amounts. The limit of detection for this analytical method is less than one percent. In multilayer samples, unless otherwise specified, the asbestos concentration is reported for the layer where asbestos is found. These results lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory. On a per sample basis, the accurac and precision of the results depend on the type of sample and its asbestos content.

Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

October 13, 2008

Hygeia recommends transmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by the PLM and the analysis may yield a false negative result.

Hygeia Laboratories Inc. is accredited under the NIST/NVLAP program for asbestos in bulk material by polarized light microscopy and the State of California for asbestos analysis.

Hygeia Laboratories Inc. and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretatior of information supplied by us. Liability shall extend to providing replicate analyses only. This report must not be used to claim product endorsement by NVLAP or any agency of the US Government. Hygeia will retain samples for a period of three months unless otherwise specified. This report relates only to samples submitted and analyzed. This report may not be reproduced except for in full, without the written approval of this laboratory. Please feel free to contact Hygeia regarding any questions about these results, this report, or the analytical methods employed.

Arturo Casas

Arturo Casas - Supervisor of Optical Microscopy

ATC Request for Laboratory Services / Chain of Custody - Asbestos

Send Report To Bob Burns
Company Name ATC Portland
Company Address 11825 SW Greenburg Road, #2B
Company Address Tigard, OR 97223
Phone (503) 684-0525 Fax (503) 624-0415
Client Project No 38.285.80.0003
Client Project Ref Yurok Acm Debris
Bill Branch No. 38 (For Inter-Company billing purposes, please provide correct Project and Task No.)
Samples Submitted 31 Samples Analyzed 31 Hygeia Reference No 00038 08 0103

Hygeia Laboratories Inc
82 W. Sierra Madre Blvd.
Sierra Madre, CA 91024
(626) 355-4711
(626) 355-4497 FAX

Reporting Fax 503.624.0415 Cell/Pager 503 260 2161
Phone ____ E-mail bob.burns@atcassociates.com

Turnaround Time ___ Normal (3-5 business days) ___ Next Day (24 hrs) X Same Day (Rush) ___ Weekend Rush

Type of Sample ___ Air ___ Bulk ___ Dust (microvac) ___ Dust (wipe) ___ Soil ___ Paint ___ Water ___ Other

Asbestos (Optical)	Asbestos (TEM)		
X PLM	___ AHERA	___ Qualitative Dust (microvac or wipe)	___ Qualitative Bulk
___ PLM Point Count 400 pts	___ EPA Level II	___ Quantitative Dust (microvac or wipe)	___ Semi-Quantitative Bulk
___ PLM Point Count 1000 pts	___ NIOSH 7402 (PCM Equivalent)	___ Drinking Water (potable)	___ Full-Quantitative Bulk
___ PCM	___ ISO 10312	___ Wastewater (non-potable)	___ Particle Characterization
			___ Supplies

Additional Instructions

As per client, TAT is Normal 10.7.08

For Lab Use Only Sample Integrity X accept ___ reject 1st Sample No 1149914-944
Results reported by: Price / Sample ____
Date ____ Time ____ Initials ____ Verbal Fax E-mail
Date ____ Time ____ Initials ____ Verbal Fax E-mail Invoice No. 77-____
Date ____ Time ____ Initials ____ Verbal Fax E-mail Log Out Date ____

Comments Stickered samples in chronological order 10.8.08

Relinquished By (Signature)	Received By (Signature)	Time	Date	Reason for Change of Custody
[illegible]		1600	10/6/08	Ship
Fed Ex	[illegible]	9:30 AM	10.8.08	

The sample collector is responsible for ensuring that all samples have been preserved according to the appropriate and appplicable methodology.

00038 08 0103

BULK SAMPLE LOG

ATC ENVIRONMENTAL INC.

BLDG. NO. _____ BLDG. TYPE _____

ATC PROJ. NO. 38 2B580005 DATE: 10 06 08 PAGE 1 OF 3

CLIENT: Yurok

PROJECT: ACM Survey - Debris

EVALTR: _____

BLDG. S.F. _____

AREA #	AREA NAME/DESCRIPTION	UNIT	UNIT ADDRESS
		A	
		B	
		C	
		D	

UNITS CODES: 1 LIN. FT. 2 SQ. FT. 3 SQ. YDS. 4 CU. IN. 5 EACH

POS./NEG. CODES: P POSITIVE N NEGATIVE

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, OTHER, O.C.

	FIELD SAMPLE CC	SAMPLE #	UNIT	FLOOR	AREA #	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	UNITS	POS./NEG.	PERCENTAGES
(2)		1A		18				white caulking				
(3)		2A		18				Black plastic like material				
(4)		3A		18				Green Plastic like material				
(5)		4A		36				Blue and Beige paint on concrete				
(6)		5A		54				Black stiff tar paper appearing material				
(7)		6A		53				Black hard slate like material				
(8)		7A		38				White and tan textured paint chip				
(9)		8A		52				White & green rubbery material				
(10)		9A		52				Green fiberous board				
		1B		39				white caulking				

MATERIAL CODES (SEE BELOW)

01 BOILER INSULATION
02 BOILER INSULATION JACKET
03 BREECHING INSULATION
04 BREECHING INSULATION JACKET
05 CHILLER INSULATION
06 CHILLER INSULATION JACKET
07 STORAGE TANK/EXCHANGER INSL
08 STORAGE TANK/EXCHANGER INSULATION JACKET
09 PUMP HOUSING INSULATION
10 PUMP HOUSING INSULATION JACKET
11 GASKETRY
12 FLUE INSULATION
13 FLUE INSULATION JACKET
14 PIPE FITTING INSULATION
15 PIPE FITTING INSL JACKET
16 PIPE RUN INSULATION
17 PIPE RUN INSL JACKET
18 PLASTER BROWN/SCRATCH COAT
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
23 JOINT COMPOUND (EXPOSED)
24 PAINT/COATING
25 WALLPAPER
26 SPRAY-APPLIED ACOUSTICAL MAT'L
27 ACOUSTICAL PANEL
28 ACOUSTICAL PANEL (2' X 2')
29 ACOUSTICAL PANEL (2' X 4')
30 ACOUSTICAL TILE (12" X 12")
31 ACOUSTICAL TILE (1' X 2')
32 MASTIC (ACOUSTICAL TILE)
33 RESILIENT FLOOR TILE (9" X 9")
34 RESILIENT FLOOR TILE (12" X 12")
35 MASTIC (FLOOR TILE)
36 RESILIENT SHEET FLOORING
37 MASTIC (SHEET FLOORING)
38 BASEBOARD
39 MASTIC (BASEBOARD)
40 SPRAY-APPLIED FIREPROOFING
41 HVAC FLEXIBLE CONNECTION
42 DUCT INSULATION
43 DUCT INSULATION JACKET
45 ROOFING COMPOSITE (ROOF CUT)
46 ROOFING CAP SHEET
47 ROOFING SHINGLE
48 ROOF FLASHING
49 ROOFING FELT
50 ROOFING MASTIC
51 THERMAL INSULATION
52 HEAT SHIELD
53 ASBESTOS-CEMENT SHEET MATERIAL
54 MORTAR/GROUT
55 SINK UNDERCOAT MATERIAL
56 POWER LEAD INSULATION
57 ASBESTOS-CEMENT PIPE
58 FABRIC/TAPE
59 MASTIC (WOOD FLOOR)
60 FIRE-RATED/INSULATED DOOR CORE
61 STUCCO
62 WINDOW PUTTY
63 MASTIC (CARPET)
64 OTHER (DESCRIBE)
65 LIGHT FIXTURES HEAT SHIELD

AREA USAGE CODES: 1 VOID/CHASE/CAVITY/EXTERIOR 2 MECHANICAL 3 STORAGE 4 OCCASIONAL 5 CONTINUOUS

FRIABILITY CODES: 1 NONFRIABLE 2 FRIABLE

CONDITION CODES: 1 GOOD 2 FAIR 3 POOR

AIR EROSION CODES: 1 LOW 2 MODERATE 3 HIGH

CONTACT CODES: 1 LOW 2 MODERATE 3 HIGH

VIBRATION CODES: 1 LOW 2 MODERATE 3 HIGH

FOR LAB USE ONLY

ANALYST'S SIGNATURE/DATE

DATE TO LAB: _____

LAB DIRECTOR'S SIGNATURE/DATE

WHITE-RETURN TO ATC WITH RESULTS (FILE COPY) YELLOW-LAB COPY PINK-ATC FIELD COPY REVISED 1

00038 08 0103

BLDG. NO. _____ BLDG. TYPE _____

ATC PROJ. NO. 38 2B580003 DATE: 100608 PAGE 2 OF 3

BULK SAMPLE LOG

ATC ENVIRONMENTAL INC.

CLIENT: Yurok

PROJECT: Yurok Acm Debris

EVALTR: _____

BLDG. S.F. _____

AREA#	AREA NAME/DESCRIPTION	UNIT	UNIT ADDRESS
		A	
		B	
		C	
		D	

UNITS CODES: 1 LIN. FT. 2 SQ. FT. 3 SQ. YDS. 4 CU. YD. 5 EACH

POS./NEG. CODES: P POSITIVE N NEGATIVE

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, OTHER, O.C.

	FIELD SAMPLE CC	SAMPLE #	UNIT	FLOOR	AREA #	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	UNITS	POS./NEG.	PERCENTAGES
14	10	A		39				Black pliable tar paper				
	8	B		21				white and green rubbery material				
12	11	A		21				Beige tile and black mastic				
13	12	A		21				Beige pebble sheet flooring				
14	13	A		21				Black cove base				
	10	B		21				Black Pliable tar paper				
15	14	A		21				Black roof tar				
16	15	A		17				Green paint on concrete				
	9	B		51				Green fibrous Panel				
	12	B		41				Beige Floor tile and Black mastic				

MATERIAL CODES (SEE BELOW)

01 BOILER INSULATION
02 BOILER INSULATION JACKET
03 BREECHING INSULATION
04 BREECHING INSULATION JACKET
05 CHILLER INSULATION
06 CHILLER INSULATION JACKET
07 STORAGE TANK/EXCHANGER INSL
08 STORAGE TANK/EXCHANGER INSULATION JACKET
09 PUMP HOUSING INSULATION
10 PUMP HOUSING INSULATION JACKET
11 GASKETRY
12 FLUE INSULATION
13 FLUE INSULATION JACKET
14 PIPE FITTING INSULATION
15 PIPE FITTING INSL JACKET
16 PIPE RUN INSULATION
17 PIPE RUN INSL JACKET
18 PLASTER BROWN/SCRATCH COAT
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
22 JOINT COMPOUND (EXPOSED)
23 PAINT/COATING
24 WALLPAPER
25 SPRAY-APPLIED ACOUSTICAL MAT'L
26 ACOUSTICAL PANEL
27 ACOUSTICAL PANEL (2' X 2')
28 ACOUSTICAL PANEL (2' X 4')
29 ACOUSTICAL TILE (12" X 12")
30 ACOUSTICAL TILE (1' X 2')
31 MASTIC (ACOUSTICAL TILE)
32 RESILIENT FLOOR TILE (9" X 9")
33 RESILIENT FLOOR TILE (12" X 12")
34 MASTIC (FLOOR TILE)
35 RESILIENT SHEET FLOORING
36 MASTIC (SHEET FLOORING)
37 BASEBOARD
38 MASTIC (BASEBOARD)
39 SPRAY-APPLIED FIREPROOFING
40 HVAC FLEXIBLE CONNECTION
41 DUCT INSULATION
42 DUCT INSULATION JACKET
43 DUCT TAPE
44 ROOFING COMPOSITE (ROOF CUT)
45 ROOFING CAP SHEET
46 ROOFING SHINGLE
47 ROOF FLASHING
48 ROOFING FELT
49 ROOFING MASTIC
50 THERMAL INSULATION
51 HEAT SHIELD
52 ASBESTOS-CEMENT SHEET MATERIAL
53 MORTAR/GROUT
54 SINK UNDERCOAT MATERIAL
55 POWER LEAD INSULATION
56 ASBESTOS-CEMENT PIPE
57 FABRIC/ROPE
58 MASTIC (WOOD FLOOR)
59 FIRE-RATED/INSULATED DOOR CORE
60 STUCCO
61 WINDOW PUTTY
62 MASTIC (CARPET)
63 OTHER (DESCRIBE)
64 LIGHT FIXTURES HEAT SHIELD

AREA USAGE CODES: 1 VOID/CHASE/CAVITY/EXTERIOR 2 MECHANICAL 3 STORAGE 4 OCCASIONAL 5 CONTINUOUS

FRIABILITY CODES: 1 NON-FRIABLE 2 FRIABLE

CONDITION CODES: 1 GOOD 2 FAIR 3 POOR

AIR EROSION CODES: 1 LOW 2 MODERATE 3 HIGH

CONTACT CODES: 1 LOW 2 MODERATE 3 HIGH

VIBRATION CODES: 1 LOW 2 MODERATE 3 HIGH

FOR LAB USE ONLY

ANALYST'S SIGNATURE/DATE

DATE TO LAB: _____

LAB DIRECTOR'S SIGNATURE/DATE

WHITE-RETURN TO ATC WITH RESULTS (FILE COPY) YELLOW-LAB COPY PINK-ATC FIELD COPY REVISED 1

00038 08 0103

BULK SAMPLE LOG

ATC ENVIRONMENTAL INC.

BLDG. NO. _____ BLDG. TYPE _____

ATC PROJ. NO. 3 0 2 8 5 8 0 0 0 3 DATE: 1 0 0 6 0 8 PAGE 3 OF 3

CLIENT: _____

PROJECT: Yarrok Acm Debris

EVALTR: Bob Burns

BLDG. S.F. _____

AREA#	AREA NAME/DESCRIPTION	UNIT	UNIT ADDRESS
		A	
		B	
		C	
		D	

UNITS CODES: 1 LIN. FT. 2 SQ. FT. 3 SQ. YDS. 4 CU. FT. 5 EACH

POS./NEG. CODES: P POSITIVE N NEGATIVE

PERCENTAGES: CH-RYSOTILE, AMOSITE, CROCIDOLITE, OTHER, C.C.

FIELD SAMPLE CC	SAMPLE #	UNIT	FLOOR	AREA #	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	UNITS	POS./NEG.	PERCENTAGES
	7	B	50				White and Tan paint chip				
	12	C	39				Beige tile and black mastic				
(16)	16	A	25				Gray paint on concrete flooring				
	8	C	14				White and green rubber material				
	1	C	14				White caulking				
	12	B	3				Beig. Pebble sheet flooring				
	7	C	14				White & beige textured paint				
(17)	17	A	N.W				Expansion Joint Caulk - Black				
	17	B	N.W								
	17	C	N.W								

HB

MATERIAL CODES (SEE BELOW) → Roofing tar

01 BOILER INSULATION
02 BOILER INSULATION JACKET
03 breeching insulation
04 breeching insulation jacket
05 chiller insulation
06 chiller insulation jacket
07 storage tank/exchanger insl.
08 storage tank/exchanger insulation jacket
09 pump housing insulation
10 pump housing insulation jacket
11 gasketing
12 flue insulation
13 flue insulation jacket
14 pipe fitting insulation
15 pipe fitting insl jacket
16 pipe run insulation
17 pipe run insl jacket
18 plaster brown/scratch coat
19 plaster finish coat
20 plaster composite
21 wallboard
23 joint compound (exposed)
24 paint/coating
25 wallpaper
26 spray-applied acoustical mat'l
27 acoustical panel
28 acoustical panel (2' x 2')
29 acoustical panel (2' x 4')
30 acoustical tile (12" x 12")
31 acoustical tile (1' x 2')
32 mastic (acoustical tile)
33 resilient floor tile (9" x 9")
34 resilient floor tile (12" x 12")
35 mastic (floor tile)
36 resilient sheet flooring
37 mastic (sheet flooring)
38 baseboard
39 mastic (baseboard)
40 spray-applied fireproofing
41 HVAC flexible connector
42 duct insulation
43 duct insulation jacket
45 roofing composite (roof cut)
46 roofing cap sheet
47 roofing shingle
48 roof flashing
49 roofing felt
50 roofing mastic
51 thermal insulation
52 heat shield
53 asbestos-cement sheet material
54 mortar/grout
55 sink undercoat material
56 power lead insulation
57 asbestos-cement pipe
58 fabric/rope
59 mastic (wood floor)
60 fire-rated/insulated door core
61 stucco
62 window putty
63 mastic (carpet)
64 other (describe)
65 light fixtures heat shield

AREA USAGE CODES: 1 void/chase/cavity/exterior 2 mechanical 3 storage 4 occasional 5 continuous

FRIABILITY CODES: 1 non-friable 2 friable

CONDITION CODES: 1 good 2 fair 3 poor

AIR EROSION CODES: 1 low 2 moderate 3 high

CONTACT CODES: 1 low 2 moderate 3 high

VIBRATION CODES: 1 low 2 moder 3 high

FOR LAB USE ONLY

ANALYST'S SIGNATURE/DATE

LAB DIRECTOR'S SIGNATURE/DATE

DATE TO LAB: _____

WHITE-RETURN TO ATC WITH RESULTS (FILE COPY) YELLOW-LAB COPY PINK-ATC FIELD COPY REVISED 1

Hygeia Laboratories Inc.
82 W. Sierra Madre Blvd
Sierra Madre, CA 91024-2434
(626) 355-4711 (626) 355-4497 Fax

NIST/NVLAP Lab Code 102116-0
California ELAP Certificate No. 1269

Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

October 16, 2008

Mr. Bob Burns
ATC Portland
11825 SW Greenburg Road, #2B
Tigard, OR 97223

Samples Analyzed: 8
Sampler: B. Burns
Sample Condition: Acceptable

Hygeia Reference No.: **00038 08 0104**
Date Collected: October 7, 2008
Date Received: October 10, 2008
Date Analyzed: October 16, 2008

Client Reference: 38.28580.0003 Yurok ACM Survey Debris

Client Sample ID / Hygeia Sample ID	Sample Description - color / *Comments*	Asbestos Type, %							Non-Asbestos Constituents, %									QC
		Asbestos Detected	Chrysotile	Amosite	Crocidolite	Tremolite / Actinolite	Anthophyllite	Other	Cellulose	Fiberglass	Synthetic	Mineral Fillers	Vermiculite	Organic Binders				
18A 1150276	Fiber glass-like material - brown	No								80		20						
19A 1150277	Drywall-like material - white	No								2		98						
19B 1150278	Drywall-like material - white	No								2		98						
19C 1150279	Drywall-like material - white	No								2		98						
20A 1150280	Floor tile - tan	Yes	2									78		20				
21A 1150281	Concrete-like material - grey	No										100						
21B 1150282	Concrete - grey	No										100						X
22A 1150283	Joint compound-like material - white *Appears to be caulking*	Yes	< 1									100						

Microscopist - Fidel Gutierrez

Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

October 16, 2008

The analyses of the samples in this report were performed using polarized light microscopy using the EPA method 600/R-93/116. The phase abundances provided are visually estimated and expressed as percent area. Total percentage of sample constituents may total greater than 100 due to trace amounts. The limit of detection for this analytical method is less than one percent. In multilayer samples, unless otherwise specified, the asbestos concentration is reported for the layer where asbestos is found. These results lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory. On a per sample basis, the accurac and precision of the results depend on the type of sample and its asbestos content.

Hygeia recommends transmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds, when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by the PLM and the analysis may yield a false negative result.

Hygeia Laboratories Inc. is accredited under the NIST/NVLAP program for asbestos in bulk material by polarized light microscopy and the State of California for asbestos analysis.

Hygeia Laboratories Inc. and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. Liability shall extend to providing replicate analyses only. This report must not be used to claim product endorsement by NVLAP or any agency of the US Government. Hygeia will retain samples for a period of three months unless otherwise specified. This report relates only to samples submitted and analyzed. This report may not be reproduced except for in full, without the written approval of this laboratory. Please feel free to contact Hygeia regarding any questions about these results, this report, or the analytical methods employed.

Arturo Casas

Arturo Casas - Supervisor of Optical Microscopy

ATC Request for Laboratory Services / Chain of Custody - Asbestos

Hygeia Laboratories Inc.
82 W. Sierra Madre Blvd.
Sierra Madre, CA 91024
(626) 355-4711
(626) 355-4497 FAX

Send Report To: Bob Burns
Company Name: ATC Associates Inc.
Company Address: 11825 SW Greenburg Road
Company Address: Suite 2B
Phone: 503-684-0525 Fax: 503-624-0415
Client Project No: 30.28580.0003
Client Project Ref: Yurok dam Debris
Bill to Branch No: 30 (For Inter-Company billing purposes, please provide correct Project and Task No.)
Samples Submitted: 8 Samples Analyzed: _____ Hygeia Reference No: 00038.08 0104

Reporting Fax: 503.624.0415 Cell/Pager: _____
Phone: _____ E-mail: bob.burns@atcassociates.com

Turnaround Time X Normal (3-5 business days) ___ Next Day (24 hrs) ___ Same Day (Rush) ___ Weekend Rush

Type of Sample ___ Air X Bulk ___ Dust (microvac) ___ Dust (wipe) ___ Soil ___ Paint ___ Water ___ Other

Asbestos (Optical)
- X PLM
- ___ PLM Point Count 400 pts
- ___ PLM Point Count 1000 pts
- ___ PCM

Asbestos (TEM)
- ___ AHERA
- ___ EPA Level II
- ___ NIOSH 7402 (PCM Equivalent)
- ___ ISO 10312

- ___ Qualitative Dust (microvac or wipe)
- ___ Quantitative Dust (microvac or wipe)
- ___ Drinking Water (potable)
- ___ Wastewater (non-potable)

- ___ Qualitative Bulk
- ___ Semi-Quantitative Bulk
- ___ Full-Quantitative Bulk

- ___ Particle Characterization
- ___ Supplies

Additional Instructions

For Lab Use Only Sample Integrity X accept ___ reject 1st Sample No 115 0276-283
Results reported by: Price / Sample _____
Date _____ Time _____ Initials _____ Verbal Fax E-mail
Date _____ Time _____ Initials _____ Verbal Fax E-mail Invoice No. 77-_____
Date _____ Time _____ Initials _____ Verbal Fax E-mail Log Out Date _____

Comments

Relinquished By (Signature)	Received By (Signature)	Time	Date	Reason for Change of Custody
R Burns		1630	10/7/08	ship
FedEx	[illegible]	9:30 AM	10.10.08	

The sample collector is responsible for ensuring that all samples have been preserved according to the appropriate and applicable methodology.

10

00038 080104

BULK SAMPLE LOG

ATC ENVIRONMENTAL INC.

BLDG. NO. _____ BLDG. TYPE _____

ATC PROJ. NO. 38 7958 0000 3 DATE: 10 07 08 PAGE 1 OF 1

CLIENT: Yurok

PROJECT: Yurok demo Debris

EVALTR: Bob Burns

BLDG. S.F. _____

AREA #	AREA NAME/DESCRIPTION	UNIT	UNIT ADDRESS
		A	
		B	
		C	
		D	

UNITS CODES: 1 LIN. FT. 2 SQ. FT. 3 SQ. YDS. 4 CU. IN. 5 EACH

POS/NEG. CODES: P POSITIVE N NEGATIVE

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, OTHER, O.C.

	FIELD CD	SAMPLE #	UNIT	FLOOR	AREA #	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	UNITS	POS/NEG	CHRYSOTILE	AMOSITE	CROCIDOLITE	OTHER	O.C.
22		18	A	15				Tan Fiber glass like material on drywall			N					
21		19	A	15				White mag. like material			N					
		19	B	27							N					
		19	C	28							N					
		20	A	28				Beige floor tile C			P	2				
		21	A	15				Soft concrete like material			N					
		21	B	28				Soft concrete			N					X
		22	A	31				White joint compound like material			P	<1				

MATERIAL CODES (SEE BELOW)

01 BOILER INSULATION
02 BOILER INSULATION JACKET
03 breeching INSULATION
04 breeching INSULATION JACKET
05 CHILLER INSULATION
06 CHILLER INSULATION JACKET
07 STORAGE TANK/EXCHANGER INSL
08 STORAGE TANK/EXCHANGER INSULATION JACKET
09 PUMP HOUSING INSULATION
10 PUMP HOUSING INSULATION JACKET
11 GASKETRY
12 FLUE INSULATION
13 FLUE INSULATION JACKET
14 PIPE FITTING INSULATION
15 PIPE FITTING INSL JACKET
16 PIPE RUN INSULATION
17 PIPE RUN INSL JACKET
18 PLASTER BROWN/SCRATCH COAT
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
23 JOINT COMPOUND (EXPOSED)
24 PAINT/COATING
25 WALLPAPER
26 SPRAY-APPLIED ACOUSTICAL MAT'L
27 ACOUSTICAL PANEL
28 ACOUSTICAL PANEL (2' X 2')
29 ACOUSTICAL PANEL (2' X 4')
30 ACOUSTICAL TILE (12" X 12")
31 ACOUSTICAL TILE (1' X 2')
32 MASTIC (ACOUSTICAL TILE)
33 RESILIENT FLOOR TILE (9" X 9")
34 RESILIENT FLOOR TILE (12" X 12")
35 MASTIC (FLOOR TILE)
36 RESILIENT SHEET FLOORING
37 MASTIC (SHEET FLOORING)
38 BASEBOARD
39 MASTIC (BASEBOARD)
40 SPRAY-APPLIED FIREPROOFING
41 HVAC FLEXIBLE CONNECTION
42 DUCT INSULATION
43 DUCT INSULATION JACKET
44 duct tape
45 ROOFING COMPOSITE (ROOF CUT)
46 ROOFING CAP SHEET
47 ROOFING SHINGLE
48 ROOF FLASHING
49 ROOFING FELT
50 ROOFING MASTIC
51 THERMAL INSULATION
52 HEAT SHIELD
53 ASBESTOS-CEMENT SHEET MATERIAL
54 MORTAR/GROUT
55 SINK UNDERCOAT MATERIAL
56 POWER LEAD INSULATION
57 ASBESTOS-CEMENT PIPE
58 FABRIC/ROPE
59 MASTIC (WOOD FLOOR)
60 FIRE-RATED/INSULATED DOOR CORE
61 STUCCO
62 WINDOW PUTTY
63 MASTIC (CARPET)
64 OTHER (DESCRIBE)
65 LIGHT FIXTURES HEAT SHIELD

AREA USAGE CODES: 1 VOID/CHASE/CAVITY/EXTERIOR 2 MECHANICAL 3 STORAGE 4 OCCASIONAL 5 CONTINUOUS

FRIABILITY CODES: 1 NONFRIABLE 2 FRIABLE

CONDITION CODES: 1 GOOD 2 FAIR 3 POOR

AIR EROSION CODES: 1 LOW 2 MODERATE 3 HIGH

CONTACT CODES: 1 LOW 2 MODERATE 3 HIGH

VIBRATION CODES: 1 LOW 2 MODERATE 3 HIGH

FOR LAB USE ONLY
Appears to be caulking.

ANALYST'S SIGNATURE/DATE 10-16-08

DATE TO LAB: _____

LAB DIRECTOR'S SIGNATURE/DATE

WHITE-RETURN TO ATC WITH RESULTS (FILE COPY) YELLOW-LAB COPY PINK-ATC FIELD COPY REVISED 1

CALIFORNIA PRELIMINARY 20-DAY NOTICE

(PUBLIC AND PRIVATE WORK)

IN ACCORDANCE WITH SECTION 3097 AND 3098, CALIFORNIA CIVIL CODE

THIS IS NOT A LIEN, THIS IS NOT A REFLECTION ON THE INTEGRITY OF ANY CONTRACTOR OR SUBCONTRACTOR

YOU ARE HEREBY NOTIFIED THAT JOB # 319135

CONSTRUCTION LENDER or
Reputed Construction Lender, if any

LVI FACILITY SERVICES
31500 HAYMAN STREET
HAYWARD, CA 94544
Phone: (510) 491-1300

(name and address of person or firm-sender)

has furnished or will furnish labor, services, equipment or materials of the following general description:

Clean up asbestos debris

(general description of the labor, services, equipment or materials furnished or to be furnished)

OWNER or PUBLIC AGENCY
or Reputed Owner (on public work)
(on private work)

for the building, structure or other work of improvement located at

Former Air Force Radar Station
Yurok Reservation
Requa CA 0

(address or description of job site sufficient for identification)

Ken Henderson
190 Alamath Blvd
Klamath, CA 95548

The name of the person or firm who contracted for the purchase

ORIGINAL CONTRACTOR or
Reputed Contractor

0 with Ken Henderson

LVI FACILITY SERVICES
31500 HAYMAN STREET
HAYWARD, CA 94544

NOTICE TO PROPERTY OWNER

If bills are not paid in full for the labor, services, equipment or materials furnished or to be furnished, a mechanic's lien leading to the loss, through court foreclosure proceedings, of all or part of your property being so improved may be placed against the property even though you have paid your contractor in full. You may wish to protect yourself against this consequence by (1) requiring your contractor to furnish a signed release by the person or firm giving you this notice before making payment to your contractor or (2) any other method or device which is appropriate under the circumstances.

NOTICE TO CONSTRUCTION LENDER ONLY

ESTIMATED TOTAL PRICE OF THE LABOR, SERVICES, EQUIPMENT OR MATERIALS DESCRIBED HEREON.

DECLARATION OF SERVICE OF CALIFORNIA PRELIMINARY 20-DAY NOTICE
In Accordance with Sections 3097.1(c) and 3098, California Civil Code

I, JOHN J. MCKNIGHT, declare:

On the 29th day of July, 2009, at HAYWARD, CA Declarant served the CALIFORNIA PRELIMINARY 20-DAY NOTICE on the interested parties as follows: (check applicable box.)

[X] By placing a true copy thereof enclosed in a sealed envelope with first-class registered or certified postage prepaid in the United States mail at HAYWARD, CA 94544 addressed to each of the parties at the addresses shown above.

[ ] By delivering a true copy thereof to to each of the parties at the addresses shown above

I declare under penalty of perjury that the foregoing is true and correct. Executed on 07/29/2009

at HAYWARD, CA 94544, Declarant

OWNER COPY CONTRACTOR COPY FILE COPY

11825 SW Greenburg Rd, Ste 2B
Tigard, Oregon 97223
www.atcassociates.com
503-684-0525
Fax 503-624-0415

September 15, 2009

Mr. Ken Henderson
Assistant Director – Pollution Prevention
Yurok Tribe – Environmental Program
P.O. Box 1027
Klamath, CA 95548

RE: Oversight Report for Removal of Asbestos Containing Debris
Former Air Force Radar Station Location (Investigation Area IA-7)
Requa Formerly Used Defense Site (FUDS)
Yurok Tribe – Requa, California
ATC Project No. 38.28580.0006

Dear Mr. Henderson:

At the request of the Yurok Tribe, ATC Associates Inc. (ATC) performed project management and oversight services during the removal of asbestos-containing debris at the above referenced facility on August 4, 2009. LVI Services (LVI) was contracted to perform the asbestos debris clean up activities. LVI's submittals are presented in Attachment A. The clean up activities included:

- Hand removal of all remaining asbestos containing construction debris located on top of the approximately 5,000 square feet of concrete surface that is located at the top of Investigation Area IA-7 where the former radar station was located.
- LVI also removed the weeds and other debris from the concrete pads to ensure that no visible construction debris remained.

DESCRIPTION OF OPERATIONS

Personnel of LVI performed the debris clean up activities on August 4, 2009. LVI removed the asbestos containing construction debris by hand and placed it in a 6-mil plastic bag and labeled it for disposal. The waste was then transported by LVI to the Altamont Landfill located in Livermore, California. A Non-Hazardous Waste Data Form was generated and followed the waste to the Altamont Landfill. A copy of the Data Form and Waste Management acceptance form are presented in Attachment B. Photographs following the debris clean up activities are located in Attachment C.

POST-REMOVAL VISUAL CLEARANCE

Following the debris clean up activities performed by LVI, ATC performed a visual clearance of the area to ensure that all visible debris was removed from the concrete slabs. All three concrete slabs appeared to have been completely cleaned of all construction debris. Photographs following the debris clean up activities are located in Attachment C.

If you have any questions about this information, please call our office at 503-684-0525.

Respectfully submitted,
ATC Associates Inc.

Ron Landolt, CSST #06-4114
Project Manager

Kelly A. Kline For

Eloy Cisneros, CAC #02-3136
Branch Manager (Pleasanton, CA)

Attachments

A. Contractor Submittals
B. Waste Data Forms
C. Photographs

ATTACHMENT A

CONTRACTOR SUBMITTALS

TEMPORARY WORKSITE NOTIFICATION FOR ASBESTOS
and METHHYLENEDIANILINE - RELATED WORK
319135

COMPANY/EMPLOYER NAME **LVI ENVIRONMENTAL SERVICES, INC.**

HEADQUARTERS ADDRESS: **31500 HAYMAN STREET, HAYWARD, CA 94544 - 510/491-1300**

*CONTRACTORS STATE LICENSE BOARD NUMBER: 518740

DOSH-ACRU (CAL/OSHA) *ASBESTOS REGISTRATION NUMBER: 61

and/or "REPORT OF USE " REGISTRY NUMBER:

ADDRESS OF TEMPORARY WORKSITE AND PRECISE LOCATION:
Yurok Reservation

NEAREST INTERSECTION: **0**

TYPE OF BUSINESS: **Air Force**

*NAME OF CERTIFIED SUPERVISOR: **Carlos Iniguez**

*NAME OF PERSON IN CHARGE OF AIR MONITORING
LABORATORY WORK AND RESPIRATORS: **Carlos Iniguez**

*NAME OF CERTIFIED CONSULTANT:

PROJECTED JOB STARTING DATE: **8/4/2009** PROJECTED COMPLETION DATE: **8/6/2009**

DESCRIBE TYPE, SCOPE AND WORK PRACTICES OF JOB: Remove and dispose of loosing VAT throughout the concrete slab, By utilizing HEPA vacuums and wet methods.
Employee's wearing personal protection equipment including respirator protection. Full negative air pressure

ESTIMATED NUMBER OF EMPLOYEES ON THIS JOB: **4**

ACCORDING TO TITLE 8 CCR SECTIONS 341.9 AND 1529 (r) for ASBESTOS AND 5200 (p) for MDA, PLEASE SEND THIS COMPLETED NOTICE TO THE NEAREST DISTRICT COMPLIANCE OFFICE (SEE ATTACHED LISTING). NOT TO DOSH HEADQUARTERS OR TO DOSH CONSULTATION, PRIOR TO COMMENCEMENT OF ANY SUCH WORK ACTIVITY.

NOTE: ANY CHANGE IN THE INFORMATION PROVIDED TO THE DISTRICT OFFICE BY THE WRITTEN NOTICE SHALL BE REPORTED TO THE DISTRICT OFFICE WITHIN 24 HOURS OF SUCH CHANGE.

*THE STAR DENOTES ASBESTOS INQUIRY ONLY

TRANSMISSION VERIFICATION REPORT

TIME : 07/29/2009 08:53
NAME : LVI ENVIRONMENTAL
FAX : 5104911299
TEL : 5104911300
SER.# : BROC5J240717

DATE,TIME	07/29 08:53
FAX NO./NAME	915302244747--487
DURATION	00:00:24
PAGE(S)	01
RESULT	OK
MODE	STANDARD ECM

TEMPORARY WORKSITE NOTIFICATION FOR ASBESTOS
and METHHYLENEDIANILINE - RELATED WORK
319135

COMPANY/EMPLOYER NAME **LVI ENVIRONMENTAL SERVICES, INC.**

HEADQUARTERS ADDRESS: **31500 HAYMAN STREET, HAYWARD, CA 94544 - 510/491-1300**

*CONTRACTORS STATE LICENSE BOARD NUMBER: **518740**

DOSH-ACRU (CAL/OSHA) *ASBESTOS REGISTRATION NUMBER: **61**

and/or "REPORT OF USE " REGISTRY NUMBER:

ADDRESS OF TEMPORARY WORKSITE AND PRECISE LOCATION:
Yurok Reservation

NEAREST INTERSECTION: **0**

TYPE OF BUSINESS: **Air Force**

*NAME OF CERTIFIED SUPERVISOR: **Carlos Iniguez**

*NAME OF PERSON IN CHARGE OF AIR MONITORING
LABORATORY WORK AND RESPIRATORS: **Carlos Iniguez**

*NAME OF CERTIFIED CONSULTANT:

PROJECTED JOB STARTING DATE: **8/4/2009** PROJECTED COMPLETION DATE: **8/6/2009**

DESCRIBE TYPE, SCOPE AND WORK PRACTICES OF JOB: Remove and dispose of loosing VAT throughout the concrete slab, By utilizing HEPA vacuums and wet methods.
Employee's wearing personal protection equipment including respirator protection, Full negative air pressure

LVI Environmental Services Inc.

Phone
Fax

"DAILY HUDDLE" - PROJECT SAFETY MEETING REPORT

Date: 8/4/09

Job No: 319135

Supervisor: C. Iniguez

Job Name: Yurok Reservation

Attendant's Names:

Gustavo Ceiug
Enrique Escoreia

SIGNING I AGREE TO ABIDE BY ALL LVI STANDARD OPERATING PROCEDURES AND PRACTICES.
I AGREE TO WEAR ASSIGNED PERSONAL PROTECTIVE EQUIPMENT AND REPORT ALL ACCIDENTS.

Goals Of The Day: pick up by hand and baged asbestos floor tile small chips on the floor and shovel all dirt outside the concret, mane it a pile and swip the concret.

baged material and bringed back with us Total of 1 yd of debris with tile.

Job Safety Reminders: cut the Grass outside the area to investigate if the floor tile chips debris is outside the concret pad with the wever machine, Wear Swits all ppe and safety Goaless

Accidents Discussed:

Project Mandays:	Mandays Used to Date:	Mandays Remaining:

ments (Inspections, Field Changes, etc):

Forensic Analytical Laboratories

Final Report

Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

LVI Environmental
Teresa Felder
31500 Hayman St.

Hayward, CA 94544

RECEIVED AUG 1 4 2009

Client ID:	1258
Report Number:	A106411
Date Received:	08/06/09
Date Analyzed:	08/11/09
Date Printed:	08/11/09
First Reported:	08/11/09

Job ID/Site: 319135 - Air Force Radar Station

FALI Job ID: 1258

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	LOD F/cc	95% UCL	Fibers/cc
1	**10892804**	08/04/09	60.0	0.0	100	0.045	0.205	**< 0.045**
9926 Name: Gustavo Cerna								
2	**10892805**	08/04/09	513.0	2.0	100	0.005	0.024	**< 0.005**
9926 Name: Gustavo Cerna								
Comments:	**(8-Hour TWA) Note: The samples 10892805 and 10892804 were used to calculate an 8-Hour Time Weighted Average of < 0.006 fibers/cc.**							
Blank	**10892806**	08/04/09	0.0	0.0	100	NA	NA	**NA**
Comments:	This result was used to blank correct the other samples on this report. Blank filters are reported only as number of fibers and fields counted.							
Blank	**10892807**	08/04/09	0.0	0.5	100	NA	NA	**NA**
Comments:	This result was used to blank correct the other samples on this report. Blank filters are reported only as number of fibers and fields counted.							

The 8-hour Time Weighted Average (TWA) is calculated to reflect an 8-hour exposure (per 8 CCR 5155) and is based upon sampling information provided by the client. The TWA result assumes no (zero) exposure during any unsampled portion of the shift, unless otherwise indicated by the client.

James Flores, Laboratory Supervisor, Hayward Laboratory

Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested and results are based upon sample information provided by the client. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by Forensic Analytical. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Forensic Analytical reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. Samples are not blank corrected unless otherwise noted. All samples were received in acceptable condition unless otherwise noted.

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

ATTACHMENT B

WASTE DATA FORMS

22668

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

NAME Ken Henderson

EPA I.D. NO.

ADDRESS 190 Klamath Blvd.

CITY, STATE, ZIP Klamath, CA. 95548

PHONE NO. ( )

CONTAINERS: No. _____ VOLUME/CY 1 YARD WEIGHT/TONS _____

TYPE: ☐ TANK TRUCK ☐ DUMP TRUCK ☐ DRUMS ☐ CARTONS ☐ OTHER _____

WASTE DESCRIPTION Construction debris with Non Haz GENERATING PROCESS _____

COMPONENTS OF WASTE	PPM %	COMPONENTS OF WASTE	PPM %
1. <1%		3.	
2.		4.	

VOC-OVA READINGS _____

SITE VERIFICATION Former Air Force Radar Station Yurok Reservation Requa, CA.

PROPERTIES: pH ____ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER _____

HANDLING INSTRUCTIONS: _____

THE GENERATOR COMMFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

[illegible] 8/4/99

TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TRANSPORTATION

NAME ~~World Environmental & Energy~~ Lvi Facility Services Inc

EPA I.D. NO.

ADDRESS ~~3208 West Capitol Avenue~~ 31500 Hayman Street

SERVICE ORDER NO. _____

CITY, STATE, ZIP ~~West Sacramento, CA 95691~~ Hayward Ca 94544

PICK UP DATE _____

PHONE NO. ~~(916)371-3617~~ (510) 491-1300

CARLOS INIGUEZ [illegible]

TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TRUCK, UNIT, I.D. NO.

TSD FACILITY

NAME Altamont Landfill

EPA I.D. NO.

ADDRESS 10840 Altamont Pass Road

DISPOSAL METHOD ☐ LANDFILL ☐ OTHER _____

CITY, STATE, ZIP Livermore, CA. 94550

PHONE NO. (925)-449-6349

[illegible] 8-5-09

TYPED OR PRINTED FULL NAME & SIGNATURE DATE

GEN	OLD/NEW	L	A	TONS
TRANS		S	B	
C/O		RT/CD		HWDF NONE

DISCREPANCY

White & Yellow - TSD COPY Pink - GENERATOR COPY Goldenrod - TRANSPORTER COPY

319135

WASTE MANAGEMENT

WEIGHMASTER-Altamont Landfill & RRF
10840 Altamont Pass Road
Livermore, CA, 94551
Ph: (925)455 7300

Original
Ticket# 856138

Customer Name CASH Cash Customer
Ticket Date 08/06/2009
Payment Type Credit Card
Manual Ticket#
Billing # 0001125

Carrier GEN Altamont Generic
Vehicle# pick up
Container
License#

Manifest 02018
PO
Profile 0
Generator

	Time	Scale	Deputy Weighmaster	Inbound	Gross
In	08/06/2009 09:48:30	Scale 4	J Schaeuffler		Tare
Out	08/06/2009 09:48:30		J Schaeuffler		Net
					Tons

Comment:

	Product	LOC	Qty	UOM	Rate	Tax	Amount	Origin
1	MFRW Rebates - H	100	1.00	Yards	121.00		$121.00	Crescent C
2	FUEL Fuel Surcharg	100		%	3.52		14.04	Crescent C
3	F-18 Env Fee $8 Ig	100	1	Load	8.00		18.00	Crescent C

DRIVER: Carlos Lopez

Weighmaster Certificate

Total Tax
Total Ticket $133.54

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

404WMCA

ATTACHMENT C

PHOTOGRAPHS

Photo 1: Upper concrete pad following clean up.

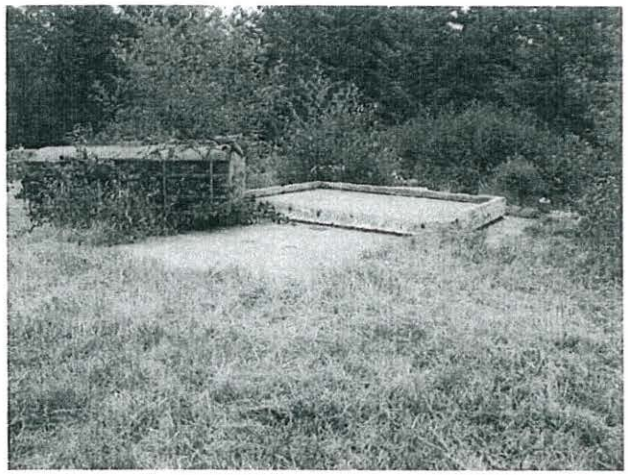


Photo 2: Upper square concrete pad following clean up.

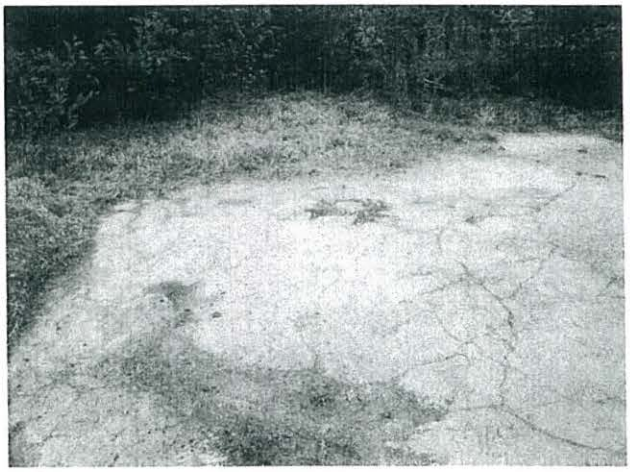


Photo 3: Close up of upper concrete pad following clean up.

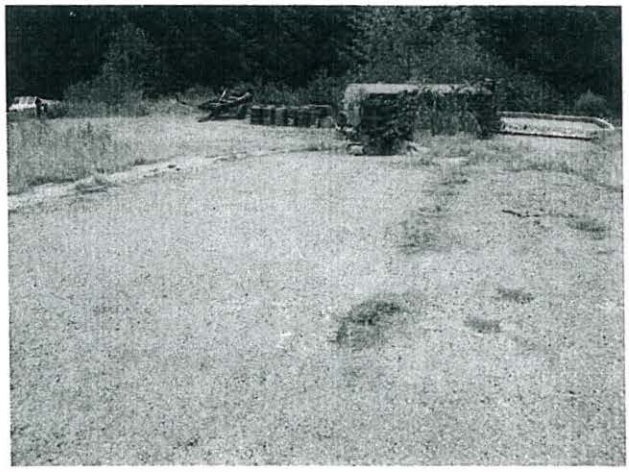


Photo 4: Upper round and square pads following clean up.

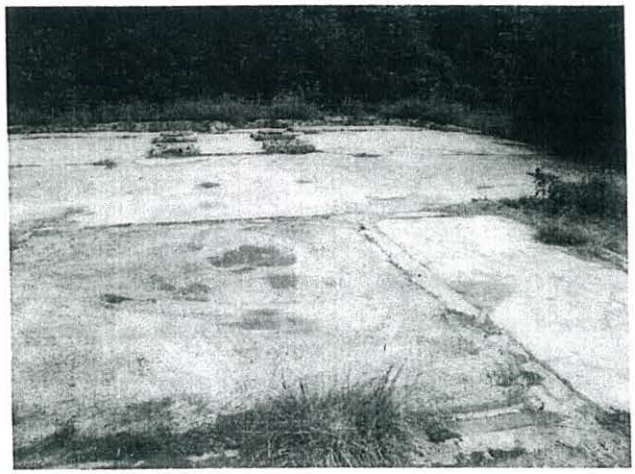


Photo 5: Lower concrete pad following clean up.

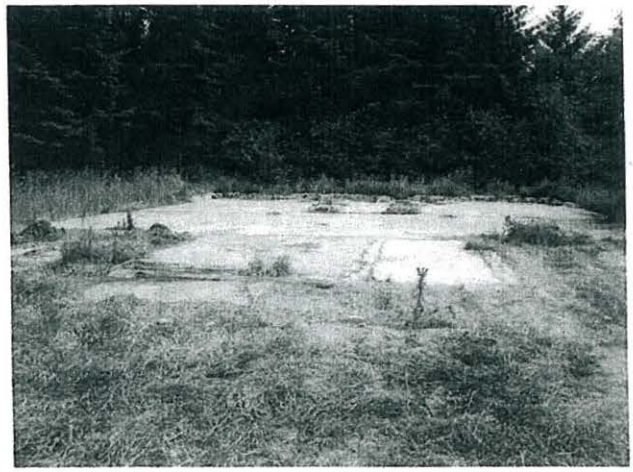
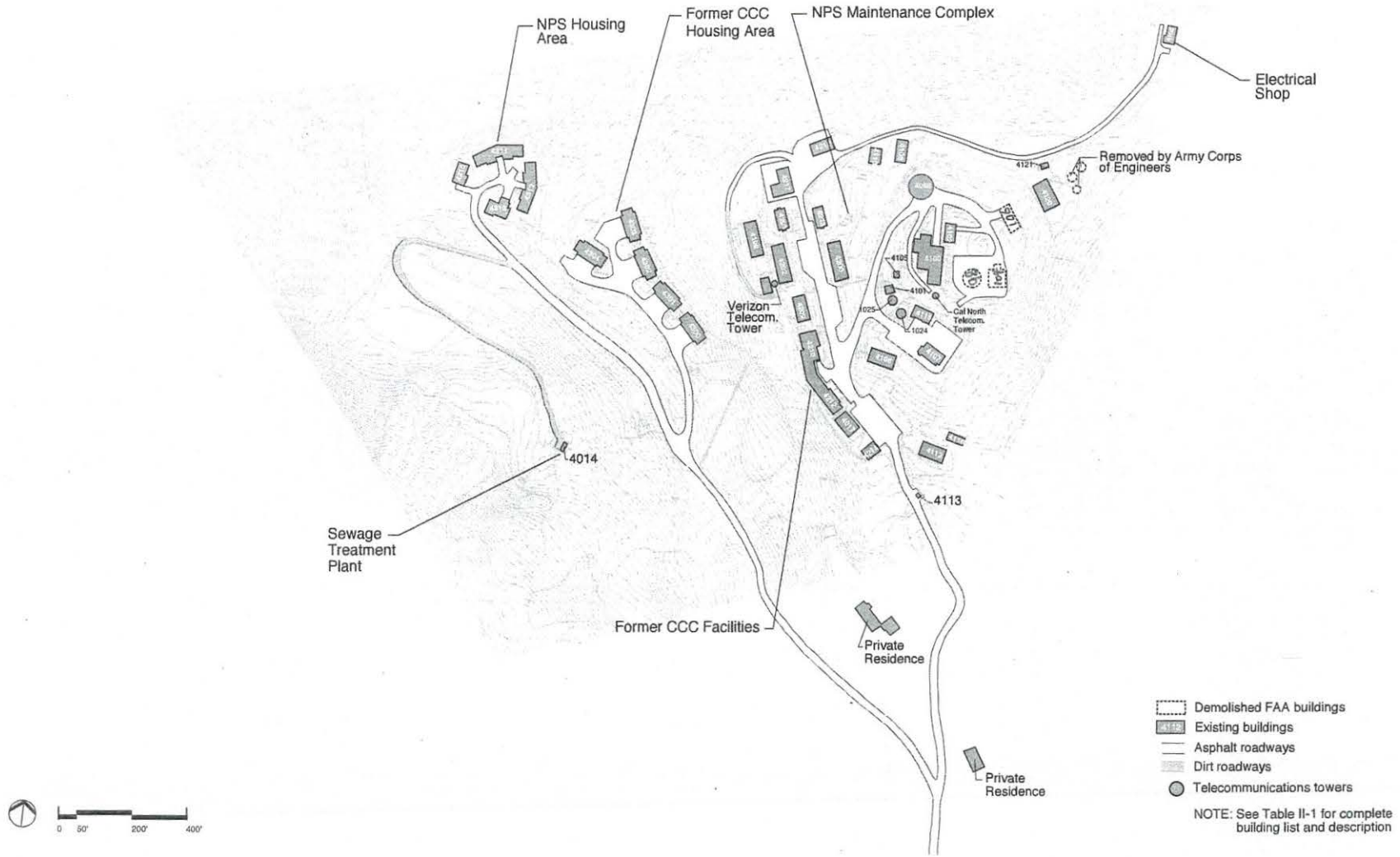


Photo 6: Lower concrete pad following clean up.

Figure II-1
Alternative 1 Requa Area



SOURCE: National Park Service and BSA Architects

Table II-1
Existing Requa Area Buildings and Use (Alternative 1)

Building Number	Description/Use	Approx. Size (sf)	Use
1024	75,000 Gallon Water Tank	n/a	In Use
1025	75,000 Gallon Water Tank	n/a	In Use
500	Salt Creek Pump House	n/a	In Use
4014	Sewage Treatment Plant	250	In Use
4017	New Metal Building	2,480	Former CCC Use
4098	Radar Dome	2,530	Removed
4099	Old Radar Dome	1,900	Storage
4100	Operations Building	7,400	Storage
4101	Water Booster Station	510	In Use
4102	Storage	1,603	Removed
4105		260	Not Used
4106	Building	2,220	Removed
4107	Plumbers	2,580	In Use
4108	BOQ Barracks	2,770	Storage
4109	Storage	1,840	Storage
4110	Radio	1,200	In Use
4112	NCO	2,750	In Use
4113			
4114	GATR	2,240	Storage
4116			
4118	Sign Shop	1,850	In Use
4120	Power Plant	3,400	Storage
4121	Fuel Shed	280	Not Used
4150	Ceramics Shop	1,200	In Use
4198	NCO Gym	3,360	Former CCC Use
4200	NPS Offices - Maintenance Division	3,780	In Use
4201	Training Building	1,580	In Use
4202	Barracks	3,710	Not Used
4203	Firewood Storage	n/a	Storage
4208	Barracks	2,450	Storage
4209			
4210	Dining Hall	5,100	Former CCC Use
4212	Offices	4,070	Former CCC Use
4213	Hobby House	1,590	Storage
4214	Steam Plant	1,420	Former CCC Storage
4217	Carpenter Shop	3,000	In Use
4218	Mechanic Shop (Road & Trails)	2,120	In Use
4300	Apartment	3,220	Former CCC Use
4301	Apartment	3,220	Former CCC Use
4302	Apartment	3,220	Former CCC Use
4303	Apartment	3,220	Former CCC Use
4304	Apartment	3,220	Former CCC Use
4310	Half-Duplex	1,840	In Use
4311	Duplex	4,450	In Use
4312	Duplex	4,450	In Use
4313	Commanders Residence	2,550	In Use
	Total Square Footage:	**100,833**	

The existing Requa water supply system would continue to operate, providing service to Requa facilities as well as four private homes connected to the existing water system. The water system would continue to consist of a well and high head submersible well pump, a 4-inch transmission line that delivers water to two 75,000-gallon water storage tanks, a hydropneumatic booster station, and a distribution system. The sewage treatment plant at the Requa area would continue to be outmoded, and not meet State and Regional Water Quality Control Board discharge standards.

ATC ASSOCIATES INC

11825 SW Greenburg Road, Suite 2B
Tigard, Oregon 97223
www.atcassociates.com
503.684.0525
Fax 503.624.0415

March 17, 2010

Mr. Ray Martell
Environmental Program
Yurok Tribe
190 Klamath Boulevard
Klamath, California 95548

RE: IA-7 Oil/Water Separator Outfall Evaluation
Requa Formerly Used Defense Site (FUDS)
Yurok Reservation
Requa, California

Dear Mr. Martell:

ATC Associates Inc. (ATC) has prepared this letter report to address concerns with petroleum hydrocarbon contamination associated with the former operation of an oil/ water separator and outfall in Investigation Area IA-7. The purpose of this letter is to provide data collected during the remedial investigation activities which was used during preparation of a site-specific human risk assessment that shows the residual contamination does not pose a risk to human receptors.

BACKGROUND

A Remedial Investigation Report was prepared by ATC in May 2006 for the Yurok Tribe to provide documentation of the environmental site investigation activities completed for the Site located in Requa, California (Figure 1). The work was conducted to address environmental impacts at the Site attributable to the United States Department of Defense (DOD) past activities. The funding for the project has been through Cooperative Agreements between the Yurok Tribe and the DOD under the Native American Lands Environmental Mitigation Program (NALEMP) provided by the DOD.

The purpose of the remedial investigation activities was to define and assess the areas of contamination that have been identified through various investigations conducted at the Site, that are either presently impacting, or may adversely impact human health and the environment.

BACKGROUND - INVESTIGATION AREA DESCRIPTIONS

Prior to the first investigation activities by ATC, the Site was divided into ten individual investigation areas based upon the source of contamination and location on the Site. The following sections present a description of each of the ten investigation areas. Figure 2 shows the locations of the ten investigation areas.

Investigation Area 1

The potential sources of petroleum hydrocarbon releases for Investigation Area IA-1 are composed of a former 500-gallon underground storage tank (UST), identified as UST-1, that was located south of the former electrical shop or a.k.a. ceramics shop (Building 4150) and a sediment trap (formerly identified as an oil/water separator), located east of Building 4150.

Investigation Area 2

The potential sources of petroleum hydrocarbons for Investigation Area IA-2 consist of two former 63,000-gallon aboveground storage tanks (ASTs), identified as AST 1 and 2, and one former 42,000-gallon AST (AST 3) located east of Building 4120. IA-2 also includes the subsurface product lines that extended from the ASTs to Building 4101.

Investigation Area 3

The potential sources for the release of petroleum hydrocarbons to the environment in Investigation Area IA-3 were composed of one former 10,150-gallon diesel tank (UST 2), and one former 1,000-gallon diesel tank (UST-3) that were located north of Building 4120 and south of Building 4101, and a former vehicle wash area north of Building 4120.

Investigation Area 4

The potential source for petroleum hydrocarbons in Investigation Area IA-4 is composed of one former UST located northwest of Building 4107. The size of the former UST is unknown.

Investigation Area 5

The potential source of petroleum hydrocarbons in Investigation Area IA-5 is composed of one former 250-gallon diesel UST located near the GATR building.

Investigation Area 6

The potential source of petroleum hydrocarbons in Investigation Area IA-6 is composed of a former 9,400-gallon underground diesel tank (UST-6), which was located northwest of Building 4214, and associated underground product piping from the ASTs in Investigation Area IA-2.

Investigation Area 7

The potential source of petroleum hydrocarbon contamination in Investigation Area IA-7 is composed of a former oil/water separator, which was abandoned in place by using concrete during demolition of Building 98 by the FAA.

Investigation Area 8

The potential source of contamination in Investigation Area IA-8 is composed of the wash (maintenance) rack on the east side of Building 4218 and the former septic tank which was located near Building 4218.

Investigation Area 9

The potential exposure point for human receptors in Investigation Area IA-9 is composed of one off-site spring box group that is used to supply drinking water to a residence down gradient from the

Site.

Investigation Area 10

This investigation area is downgradient of IA-6 approximately 3,000 feet west and is included as an additional investigation area in order to further delineate migratory petroleum hydrocarbon impact in soil and groundwater.

SOIL SAMPLE DATA COLLECTED NEAR OIL/WATER SEPARATOR

In July 2005, soil samples were collected from a push-probe boring (IA7-SB-1) and from a hand auger boring (IA7-HA-1) to evaluate residual contamination from the former operation of the oil/water separator and associated outfall. The hand auger boring was completed near the former outfall and the push-probe boring was completed between the abandoned oil/water separator and the outfall. Soil samples from boring IA7-SB-1 were collected at depths of 10 feet and 30 feet below grade. Soil samples from IA7-HA-1 were collected at depths of 0.5 feet, 3 feet, and 5 feet below grade. Sample locations are shown on the attached figures copied from the Remedial Investigation Report dated May 2006.

The soil samples were analyzed for total petroleum hydrocarbons (TPH) as diesel and oil by United States Environmental Protection Agency (USEPA) Method 8015 modified and semi-volatile organic compounds (SVOCs) by USEPA Method 8270. In addition, the soil samples collected from IA7-SB-1 were also analyzed for total lead by USEPA Method 6020.

Concentrations of TPH as diesel and oil were not detected above the laboratory reporting limits for samples IA7-SB-1-10 and IA7-SB-1-30. Concentrations of TPH as diesel and oil were detected in the two shallow soil samples from boring IA7-HA-1. TPH as diesel was detected at concentrations of 930 milligrams per kilogram (mg/kg) in soil sample IA7-HA-1-0.5 and 47 mg/kg in soil sample IA7-HA-1-3.0. TPH as oil concentrations were detected at concentrations of 810 mg/kg in soil sample IA7-HA-0.5 and 100 mg/kg in soil sample IA7-HA-1-3.0. TPH as oil and diesel concentrations were not detected in the deepest soil sample collected from hand auger boring IA-7-HA-1 at a depth of 5 feet.

Only two SVOC compounds were detected in any of the five soil samples collected near the abandoned oil/water separator and the outfall. Pyrene was detected in soil samples IA7-HA-1-0.5 and IA7-HA-1-3.0 at concentrations of 0.0172 mg/kg and 0.0124 mg/kg, respectively. Fluoranthene was also detected in soil sample IA7-HA-1-3.0. The detected concentrations of each of these compounds were below the appropriate risk screening levels.

Total lead was detected in both soil samples collected from IA7-SB-1. The detected concentrations were 6.62 mg/kg in soil sample IA7-SB-1-10 and 2.75 mg/kg in soil sample IA7-SB-1-30.

The data is summarized in the attached tables and figures copied from the Remedial Investigation Report dated May 2006

HUMAN HEALTH RISK ASSESSMENT RESULTS

A site-specific human health risk assessment was completed for the site and the results were presented in a report dated June 25, 2008. The results of the health screening for each investigation area determined that only the petroleum hydrocarbon contamination in Investigation Areas IA-2, IA-6, and IA-8 need to be addressed at this site. TPH concentrations are generally not amenable to a qualitative risk assessment. Rather USEPA and CalEPA have developed a list of surrogate chemicals frequently associated with petroleum mixes. Concentrations of these surrogate chemicals which exceed screening values are carried forward into the quantitative risk assessment. Concentrations of surrogate constituents for TPH as diesel and TPH as gasoline were all below screening values. Therefore, no quantitative risk assessment was performed.

In conclusion, no quantitative risk assessment was performed for this site as the surrogate chemical constituents did not exceed very conservative screening values. The results of the human health risk screening demonstrated that concentrations of TPH as diesel and TPH as oil may pose an odor or nuisance in cases of human occupancy of the site, but no unacceptable carcinogenic or noncarcinogenic human health impacts are anticipated.

CLOSURE

The results of the Remedial Investigation and Human Health Risk Assessment indicate that the residual petroleum hydrocarbons detected in 2005 in soil samples collected near the outfall for the abandoned oil/water separator do not pose a risk to human health.

ATC Associates Inc. appreciates the opportunity to be of service to the Yurok Tribe. If you have any questions or need further information, please contact the undersigned at (503) 684-0525.

Sincerely,

ATC ASSOCIATES INC.

Kelly A. Kline

Kelly A. Kline
Senior Project Manager

Attachments:

Table 7 – Soil Results – TPH (Copied From the RI Report)
Table 9 – Soil Results – SVOCs (Copied From the RI Report)
Figure 10a – TPH in Soil (copied From the RI Report)
Figure 10c – SVOCs in Soil (Copied From the RI Report)

Table 7 - Soil Results
Total Petroleum Hydrocarbons - Gasoline (TPH-Gx), Diesel and Heavy Oil (TPH-Dx) (mg/Kg)
Requa Formerly Used Defense Site

Requa, California

Total Petroleum Hydrocarbons - Gasoline, Diesel and Heavy Oil (mg/Kg)				EPA Method 8015		
				Gasoline Range	Diesel Range	Heavy Oil
Screening Criteria						
RBSL (mg/Kg)	Shallow Soil (≤3m bgs)	Groundwater IS Current or Potential Source of Drinking Water	Residential	100	100	500
			Industrial	100	100	1,000
		Groundwater IS NOT Current or Potential Source of Drinking Water	Residential	100	100	500
			Industrial	400	500	1,000
	Deep Soil (≥3m bgs)	Groundwater IS Current or Potential Source of Drinking Water	Residential	100	100	1,000
			Industrial	100	100	1,000
		Groundwater IS NOT Current or Potential Source of Drinking Water	Residential	400	500	1,000
			Industrial	400	500	1,000
Investigation Area	**Sample ID**	**Sample Depth (feet bgs)**	**Sample Date**			
IA1	IA1-SB1-10	10	5/18/2005	NA	<16	<54
	IA1-SB1-20	20	5/18/2005	NA	<16	<54
	IA1-SB2-10	10	5/18/2005	**8.3**	<16	<53
	IA1-SB2-35	35	5/18/2005	**3.2**	<16	<54
	IA1-SB3-15	15	7/26/2005	NA	<16	<53
	IA1-SB3-25	25	7/26/2005	NA	<16	<55
IA2	IA2-SB1-10	10	5/19/2005	<2.9	<17	<58
	IA2-SB1-20	20	5/19/2005	<2.8	<17	<56
	IA2-SB2-10	10	5/19/2005	<2.9	<17	<58
	IA2-SB2-20	20	5/19/2005	<3.0	<18	<59
	IA2-SB3-15	15	5/20/2005	<3.0	<18	<59
	IA2-SB3-20	20	5/20/2005	<2.9	<18	<59
	IA2-SB3-25	25	5/20/2005	**40**	**25**	<55
	IA2-SB4 10	10	5/23/2005	**11**	<18	<59
	IA2-SB4 25	25	5/23/2005	<2.8	<17	<57
	IA2-SB5-10	10	5/24/2005	<2.7	<16	<54
	IA2-SB5-25	25	5/24/2005	**7.10**	<17	<58
	IA2-SB6-5	5	5/25/2005	**25**	**640**	<57
	IA2-SB6-5 DUP	5	5/25/2005	**71 A**	**1,500**	<57 A3
	IA2-SB6-10	10	5/25/2005	**7.80**	**23**	<58
	IA2-SB6-15	15	5/25/2005	**430**	**7,000**	**350 M**
	IA2-SB6-20	20	5/25/2005	**4.1**	<16	<54
	IA2-SB6-30	30	5/25/2005	<2.9	<17	<57
	IA2-SB7-10	10	6/10/2005	<2.9	<17	<58
	IA2-SB7-25	25	6/10/2005	<2.6	<16	<53
	IA2-SB7-45	45	6/10/2005	<2.8	<17	<55
	IA2-SB8-30	30	7/26/2005	NA	<18	<59
	IA2-SB8-35	35	7/26/2005	NA	<17	<56
	IA2-SB9-10	10	1/25/2006	**500 A**	**7000**	**1500 M**
	IA2-SB9-20	20	1/25/2006	**3.0**	<16	<52
	IA2-SB9-30	30	1/25/2006	**4.2**	<17	<56
	IA2-SB9-40	40	1/25/2006	<2.6	<16	<53
	IA2-MW1-5	5	1/24/2006	**580 A**	**2700**	**650 M**
	IA2-MW1-10	10	1/24/2006	<2.8	<17	<57
	IA2-MW1-15	15	1/24/2006	<2.9	<17	<58
	IA2-MW1-20	20	1/24/2006	<2.9	<17	<58
	IA2-MW1-25	25	1/24/2006	<2.7	<16	<54
	IA2-MW1-30	30	1/24/2006	<2.7	<16	<55
	IA2-MW2-10	10	1/25/2006	<2.7	<16	<55
	IA2-MW2-20	20	1/25/2006	<2.7	<16	<55
	IA2-MW2-30	30	1/26/2006	<2.9	<17	<58
	IA2-MW2-40	40	1/26/2006	<2.8	<17	<56
	IA2-MW2-50	50	1/26/2006	<2.6	<16	<53
	IA2-MW3-10	10	1/26/2006	<3.1	<19	<62
	IA2-MW3-20	20	1/26/2006	<2.8	<17	<55
	IA2-MW3-30	30	1/26/2006	<2.8	<17	<55
	IA2-MW3-35	35	1/26/2006	<2.7	<16	<54
	IA2-MW3-40	40	1/26/2006	<2.7	<16	<54
	IA2-MW3-45	45	1/27/2006	<2.9	<18	<59

Notes:

bgs-below ground surface

NS: Not Sampled

IA2-SB6-5 DUP: "DUP" indicates Field Duplicate Sample.

<0.0562	Sample not detected above laboratory detection limits.
0.0618	*Sample results above laboratory detection limits, but below screening levels.*
0.181	*Sample detected above screening levels.*

PRG: USEPA Region IX Preliminary Remedial Goals for Residential Soils, accessed March 2006.

RBSL: Risk Based Screening Levels from the California Regional Water Quality Control Board, SF Bay Region, February 2005.

A = This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The results was quantified against gasoline calibration standards.

A1 = This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The results was quantified against diesel calibration standards.

A2 = This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.

A3 = The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.

M = Oil result is biased high due to amount of Diesel contained in the sample.

May 31, 2006 revised September 26, 2008

Table 7 - Soil Results
Total Petroleum Hydrocarbons - Gasoline (TPH-Gx), Diesel and Heavy Oil (TPH-Dx) (mg/Kg)
Requa Formerly Used Defense Site
Requa, California

Total Petroleum Hydrocarbons - Gasoline, Diesel and Heavy Oil (mg/Kg)				EPA Method 8015		
				Gasoline Range	Diesel Range	Heavy Oil
Screening Criteria						
RBSL (mg/Kg)	Shallow Soil (≤3m bgs)	Groundwater IS Current or Potential Source of Drinking	Residential	100	100	500
			Industrial	100	100	1,000
		Groundwater IS NOT Current or Potential Source of Drinking	Residential	100	100	500
			Industrial	400	500	1,000
	Deep Soil (≥3m bgs)	Groundwater IS Current or Potential Source of Drinking	Residential	100	100	1,000
			Industrial	100	100	1,000
		Groundwater IS NOT Current or Potential Source of Drinking	Residential	400	500	1,000
			Industrial	400	500	1,000
Investigation Area	**Sample ID**	**Sample Depth (feet bgs)**	**Sample Date**			
IA3	IA3-SB1-10	10	5/25/2005	<2.7	<16	<55
	IA3-SB1-15	15	5/25/2005	**84**	**470**	<60
	IA3-SB1-20	20	5/25/2005	<2.7	<16	<54
	IA3-SB1-30	30	5/25/2005	<2.8	<17	<55
	IA3-SB2-10	10	5/25/2005	<2.7	<16	<54
	IA3-SB2-20	20	5/25/2005	<2.6	<16	<52
	IA3-SB3-10	10	7/26/2005	NA	<20	<66
	IA3-SB3-25	25	7/26/2005	NA	<16	<54
IA4	IA4-SB1-10	10	6/7/2005	<2.6	<16	<53
	IA4-SB1-25	25	6/7/2005	<2.5	<15	<51
	IA4-SB2-10	10	6/8/2005	<3.2	<19	<64
	IA4-SB2-45	45	6/8/2005	<2.7	<16	<53
	IA4-SB3-10	10	6/8/2005	<3.1	<18	<61
	IA4-SB3-35	35	6/8/2005	<2.8	<17	<57
IA5	IA5-SB1-10	10	5/26/2005	<3.4	<21	<68
	IA5-SB1-15	15	5/26/2005	**4.7**	**150**	<56
	IA5-SB1-20	20	5/26/2005	**71**	**1,800**	<52
	IA5-SB1-25	25	5/26/2005	**11**	<16	<53
	IA5-SB1-30	30	5/26/2005	**5.9**	<16	<54
	IA5-SB2-15	15	7/26/2005	NA	<18	<60
	IA5-SB2-25	25	7/26/2005	NA	<17	<56
	IA5-SB3-20	20	7/28/2005	NA	<17	<57
	IA5-SB3-35	35	7/28/2005	NA	<16	<55
	IA5-SB3-35 DUP	35	7/28/2005	NA	<16	<55
IA6	IA6-SB2-5	5	6/7/2005	<3.0	**22**	<59
	IA6-SB2-10	10	6/7/2005	**110 A**	**730**	<64
	IA6-SB2-15	15	6/7/2005	**78 A**	**1,900**	<61
	IA6-SB2-20	20	6/7/2005	**69 A**	**310**	<61
	IA6-SB2-25	25	6/7/2005	**110 A**	**210**	<58
	IA6-SB2-25DUP	25	6/7/2005	**94**	**1,000**	<58
	IA6-SB3-5	5	6/7/2005	**12**	**31**	<61
	IA6-SB3-10	10	6/7/2005	**65 A**	<17	<57
	IA6-SB3-15	15	6/7/2005	**14 A**	**370**	<54
	IA6-SB3-20	20	6/7/2005	**23 A**	<15	<50
	IA6-SB3-25	25	6/7/2005	<2.6	<15	<51
	IA6-SB3-30	30	6/7/2005	<2.9	<17	<57
	IA6-SB4-10	10	7/28/2005	<3.1	<18	<61
	IA6-SB4-40	40	7/28/2005	<2.7	<17	<55
	IA6-MW1-10	10	1/23/2006	<3.4	<20	<68
	IA6-MW1-15	15	1/23/2006	**25 A**	**180**	<61 A3
	IA6-MW1-20	20	1/23/2006	**16 A**	<20	<65
	IA6-MW1-25	25	1/23/2006	**140 A**	**1,500**	<62 A3
	IA6-MW1-30	30	1/23/2006	**130 A**	**1,100**	<58 A3
	IA6-MW2-10	10	1/17/2006	<3.2	<19	<64

Notes:
bgs-below ground surface
NS: Not Sampled
IA2-SB6-5 DUP: "DUP" indicates Field Duplicate Sample.

<0.0562	Sample not detected above laboratory detection limits.
0.0618	Sample results above laboratory detection limits, but below screening levels.
0.181	Sample detected above screening levels.

PRG: USEPA Region IX Preliminary Remedial Goals for Residential Soils, accessed March 2006.
RBSL: Risk Based Screening Levels from the California Regional Water Quality Control Board, SF Bay Region, February 2005.
A = This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The results was quantified against gasoline calibration standards.
A1 = This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The results was quantified against diesel calibration standards.
A2 = This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
A3 = The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
M = Oil result is biased high due to amount of Diesel contained in the sample.

Table 7 - Soil Results
Total Petroleum Hydrocarbons - Gasoline (TPH-Gx), Diesel and Heavy Oil (TPH-Dx) (mg/Kg)
Requa Formerly Used Defense Site

Requa, California

Total Petroleum Hydrocarbons - Gasoline, Diesel and Heavy Oil (mg/Kg)				EPA Method 8015		
				Gasoline Range	Diesel Range	Heavy Oil
Screening Criteria						
RBSL (mg/Kg)	Shallow Soil (≤3m bgs)	Groundwater IS Current or Potential Source of Drinking	Residential	100	100	500
			Industrial	100	100	1,000
		Groundwater IS NOT Current or Potential Source of Drinking	Residential	100	100	500
			Industrial	400	500	1,000
	Deep Soil (≥3m bgs)	Groundwater IS Current or Potential Source of Drinking	Residential	100	100	1,000
			Industrial	100	100	1,000
		Groundwater IS NOT Current or Potential Source of Drinking	Residential	400	500	1,000
			Industrial	400	500	1,000
Investigation Area	**Sample ID**	**Sample Depth (feet bgs)**	**Sample Date**			
IA6	IA6-MW2-30	30	1/17/2006	<3.0	<18	<60
	IA6-MW2-40	40	1/17/2006	<3.0	<18	<60
	IA6-MW2-50	50	1/20/2006	<2.9	<17	<58
	IA6-MW2-55	55	1/20/2006	**37 A**	**360**	<59 A3
	IA6-MW2-60	60	1/20/2006	**7.8 A**	<18	<61
	IA6-MW3-25	25	1/18/2006	<2.9	<18	<59
	IA6-MW3-30	30	1/19/2006	<3.0	<18	<60
	IA6-MW3-40	40	1/19/2006	<3.0	<18	<60
	IA6-MW3-45	45	1/19/2006	<3.6	<22	<72
	IA6-MW3-50	50	1/19/2006	**5.4**	**230**	<58 A3
	IA6-MW3-55	55	1/19/2006	**120**	**710**	<66 A3
IA7	IA7-SB1-10	10	5/24/2005	<3.3	<20	<67
	IA7-SB1-30	30	5/24/2005	<3.0	<18	<61
	IA7-HA1-0.5	0.5	7/29/2005	NA	**930**	**810**
	IA7-HA1-3.0	3	7/29/2005	NA	**47**	**100**
	IA7-HA1-5.0	5.0	7/29/2005	NA	<19	<62
IA8	IA8-SB1-10	10	6/8/2005	<2.8	<17	<55
	IA8-SB1-25	25	6/8/2005	<2.8	<17	<57
	IA8-HA1-0.5	0.5	6/8/2005	<3.2	<950 A3	**20,000**
	IA8-HA1-4.0	4	6/8/2005	<3.4	<21 A3	**990**
	IA8-HA2-0.5	0.5	6/8/2005	<2.9	<17 A3	**800**
	IA8-HA2-4.0	4	6/8/2005	<3.2	<19	<64
	IA8-HA3-0.5	0.5	7/28/2005	NA	**5,200 A1**	**22,000 A2**
	IA8-HA3-3.0	3	7/28/2005	NA	**19,000 A1**	**43,000 A2**
	IA8-HA3-5.0	5	7/28/2005	NA	**140 A1**	**630 A2**
	IA8-HA3-7.0	7	7/28/2005	NA	**120 A1**	**290 A2**
	IA8-HA4-0.5	0.5	7/28/2005	NA	<410 A3	**9,600**
	IA8-HA4-3.0	3	7/28/2005	NA	<22	<73
	IA8-HA4-3.0 DUP	3	7/28/2005	NA	<20	<67
	IA8-HA4-5.0	5	7/28/2005	NA	<19	<65
	IA8-HA5-0.5	0.5	7/29/2006	NA	<21	**92 A2**
	IA8-HA5-3.0	3	7/29/2005	NA	<21	**190 A2**
	IA8-HA5-5.0	5	7/29/2005	NA	<22 A3	**270 A2**
	IA8-HA6-0.5	0.5	7/29/2005	NA	**44**	**230**
	IA8-HA6-3.0	3	7/29/2005	NA	<170	**3,100**
IA9					NS	
IA10	IA10-SB1-10	10	6/9/2005	<2.6	<16	<53
	IA10-SB1-40	40	6/9/2005	<3.0	<18	<60
	IA10-SB1-45	45	6/9/2005	<2.6	<16	<52
	IA10-SB2-10	10	6/9/2005	<3.0	<18	<59
	IA10-SB2-35	35	6/9/2005	<2.7	<16	<54
	IA10-SB2-40	40	6/9/2005	<2.8	<17	<55
	IA10-SB3-10	10	7/29/2005	<2.8	<17	<56
	IA10-SB3-20	20	7/29/2005	<2.8	<17	<57

Notes:

bgs-below ground surface

NS: Not Sampled

IA2-SB6-5 DUP: "DUP" indicates Field Duplicate Sample.

<0.0562	Sample not detected above laboratory detection limits.
0.0618	Sample results above laboratory detection limits, but below screening levels.
0.181	Sample detected above screening levels.

PRG: USEPA Region IX Preliminary Remedial Goals for Residential Soils, accessed March 2006.

RBSL: Risk Based Screening Levels from the California Regional Water Quality Control Board, SF Bay Region, February 2005.

A = This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The results was quantified against gasoline calibration standards.

A1 = This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The results was quantified against diesel calibration standards.

A2 = This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.

A3 = The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.

M = Oil result is biased high due to amount of Diesel contained in the sample.

Table 9 - Soil Results
Semi-Volatile Organic Compounds (SVOC) (mg/Kg)
Requa Formerly Used Defense Site
Requa, California

Semi-Volatile Organic Compounds (SVOC) (mg/Kg)				EPA METHOD 8270C															
				Acenaphthene	Acenaphthylene	Anthracene	Benz[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene
Screening Criteria																			
RBSL (mg/Kg)	Shallow Soil (≤3m bgs)	Groundwater IS Current or Potential Source of Drinking Water	Residential	16.3	12.7	2.85	0.377	0.0377	0.377	NE	0.377	3.77	NE	40.0	8.94	0.377	0.462	10.7	85.1
			Industrial	18.7	12.7	2.85	1.28	0.128	1.28	NE	1.28	12.8	NE	40.0	8.94	1.28	1.48	10.7	85.1
		Groundwater IS NOT Current or Potential Source of Drinking Water	Residential	16.3	12.7	2.85	12.0	1.48	14.8	NE	2.66	19.4	NE	60.4	8.94	7.75	0.462	10.7	85.1
			Industrial	18.7	12.7	2.85	12.0	1.48	14.8	NE	14.8	23.2	NE	60.4	8.94	7.75	1.48	10.7	85.1
	Deep Soil (≥3m bgs)	Groundwater IS Current or Potential Source of Drinking Water	Residential	16.3	12.7	2.85	0.377	0.0377	0.377	NE	0.377	3.77	NE	40.0	8.94	0.377	0.462	10.7	85.1
			Industrial	18.7	12.7	2.85	1.28	0.128	1.28	NE	1.28	12.8	NE	40.0	8.94	1.28	1.48	10.7	85.1
		Groundwater IS NOT Current or Potential Source of Drinking Water	Residential	16.3	12.7	2.85	12.0	1.48	14.8	NE	2.66	19.4	NE	60.4	8.94	7.75	0.462	10.7	85.1
			Industrial	18.7	12.7	2.85	12.0	1.48	14.8	NE	14.8	23.2	NE	60.4	8.94	7.75	1.48	10.7	85.1
PRG (mg/Kg)	Direct Contact Exposure Pathway:		Residential	3,682	NE	21,896	0.621	0.0621	0.621	NE	6.21	62.1	NE	2,294	2,747	0.621	55.9	NE	2,316
			Industrial	29,219	NE	100,000	2.11	0.211	2.11	NE	21.1	211	NE	22,000	26,281	2.11	188	NE	29,126
	Soil Screening Level: Migration to Groundwater		Dilution A Factor 20	570	NE	12,000	2.00	8.00	5.00	NE	49.0	160	NE	4,300	560	14.0	84.0	NE	4,200
			Dilution A Factor 1	29	NE	590	0.0800	0.400	0.200	NE	2.00	8.00	NE	210	28.0	0.700	4.00	NE	210
Investigation Area	**Sample ID**	**Sample Depth (feet bgs)**	**Sample Date**																
IA1	IA1-SB1-10	10	5/18/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA1-SB1-20	20	5/18/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA1-SB2-10	10	5/18/2005	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713
	IA1-SB2-35	35	5/18/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA1-SB3-15	15	7/26/2005	<0.00710	<0.00710	<0.00710	<0.00710	<0.00710	<0.00710	<0.00710	<0.00710	<0.00710	<0.00710	<0.00710	<0.00710	<0.00710	<0.00710	<0.00710	<0.00710
	IA1-SB3-25	25	7/26/2005	<0.00727	<0.00727	<0.00727	**0.00872**	**0.0247**	**0.0240**	**0.0509**	**0.00727**	**0.0124**	<0.00727	<0.00727	<0.00727	**0.0284**	<0.00727	<0.00727	**0.00800**
IA 2	IA2-SB1-10	10	5/19/2005	<0.00771	<0.00771	<0.00771	<0.00771	<0.00771	<0.00771	<0.00771	<0.00771	<0.00771	<0.00771	<0.00771	<0.00771	<0.00771	<0.00771	<0.00771	<0.00771
	IA2-SB1-20	20	5/19/2005	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	**0.00825**	**0.0112**	<0.00750	<0.00750	<0.00750	<0.00750	**0.0127**	<0.00750	<0.00750	**0.0112**	<0.00750
	IA2-SB2-10	10	5/19/2005	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776
	IA2-SB2-20	20	5/19/2005	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788
	IA2-SB3-15	15	5/20/2005	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788
	IA2-SB3-20	20	5/20/2005	<0.00784	<0.00784	<0.00784	<0.00784	<0.00784	<0.00784	<0.00784	<0.00784	<0.00784	<0.00784	<0.00784	**0.0165**	<0.00784	<0.00784	<0.00784	<0.00784
	IA2-SB3-25	25	5/20/2005	<0.00736	<0.00736	<0.00736	<0.00736	<0.00736	<0.00736	<0.00736	<0.00736	<0.00736	<0.00736	<0.00736	**0.00883**	<0.00736	<0.00736	<0.00736	<0.00736
	IA2-SB4 10	10	5/23/2005	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788	<0.00788
	IA2-SB4 25	25	5/23/2005	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755
	IA2-SB5-10	10	5/24/2005	<0.00718	<0.00718	<0.00718	<0.00718	<0.00718	<0.00718	<0.00718	<0.00718	<0.00718	<0.00718	<0.00718	<0.00718	<0.00718	<0.00718	<0.00718	<0.00718
	IA2-SB5-25	25	5/24/2005	<0.00774	<0.00774	<0.00774	<0.00774	<0.00774	<0.00774	<0.00774	<0.00774	<0.00774	<0.00774	<0.00774	<0.00774	<0.00774	<0.00774	<0.00774	<0.00774
	IA2-SB6-5	5	5/25/2005	**0.00909**	<0.00758	**0.00985**	<0.00758	<0.00758	<0.00758	<0.00758	<0.00758	<0.00758	<0.00758	<0.00758	**0.0674**	<0.00758	<0.00758	**0.242**	**0.00909**
	IA2-SB6-5 DUP	5	5/25/2005	**0.0379**	**0.0121**	**0.0250**	<0.00758	<0.00758	<0.00758	<0.00758	<0.00758	<0.00758	<0.00758	**0.0114**	**0.245**	<0.00758	**0.0326**	**0.561**	**0.0227**
	IA2-SB6-10	10	5/25/2005	<0.00770	<0.00770	<0.00770	<0.00770	<0.00770	<0.00770	<0.00770	<0.00770	<0.00770	<0.00770	<0.00770	**0.0446**	<0.00770	<0.00770	**0.121**	<0.00770
	IA2-SB6-15	15	5/25/2005	**0.0870**	**0.0420**	**0.230**	**0.0259**	**0.0114**	**0.0160**	<0.00763	<0.00763	**0.0267**	<0.00763	**0.121**	**1.36**	<0.00763	**0.211**	**2.83**	**0.190**
	IA2-SB6-20	20	5/25/2005	<0.00720	<0.00720	<0.00720	<0.00720	<0.00720	<0.00720	<0.00720	<0.00720	<0.00720	<0.00720	<0.00720	**0.0108**	<0.00720	<0.00720	**0.00792**	<0.00720
	IA2-SB6-30	30	5/25/2005	<0.00765	<0.00765	<0.00765	<0.00765	<0.00765	<0.00765	<0.00765	<0.00765	<0.00765	<0.00765	<0.00765	<0.00765	<0.00765	<0.00765	<0.00765	<0.00765
	IA2-SB7-10	10	6/10/2005	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776
	IA2-SB7-25	25	6/10/2005	<0.00705	<0.00705	<0.00705	<0.00705	<0.00705	<0.00705	<0.00705	<0.00705	<0.00705	<0.00705	<0.00705	**0.00916**	<0.00705	<0.00705	<0.00705	<0.00705
	IA2-SB7-45	45	6/10/2005	<0.00737	<0.00737	<0.00737	<0.00737	<0.00737	**0.0133**	**0.0221**	<0.00737	<0.00737	<0.00737	<0.00737	**0.0125**	<0.00737	<0.00737	**0.00884**	<0.00737
	IA2-SB8-30	30	7/26/2005	<0.00781	<0.00781	<0.00781	<0.00781	<0.00781	<0.00781	<0.00781	<0.00781	<0.00781	<0.00781	<0.00781	<0.00781	<0.00781	<0.00781	<0.00781	<0.00781
	IA2-SB8-35	35	7/26/2005	<0.00743	<0.00743	<0.00743	<0.00743	<0.00743	<0.00743	<0.00743	<0.00743	<0.00743	<0.00743	<0.00743	<0.00743	<0.00743	<0.00743	<0.00743	<0.00743
	IA2-SB9-10	10	1/25/2006	**0.361**	**0.158**	**0.211**	**0.0256**	**0.0155**	**0.0194**	<0.00777	<0.00777	**0.03030**	<0.00777	**0.120**	**1.50**	<0.00777	**0.982**	**2.87**	**0.250**
	IA2-SB9-20	20	1/25/2006	<0.00698	<0.00698	<0.00698	<0.00698	<0.00698	**0.00767**	**0.0132**	<0.00698	<0.00698	<0.00698	<0.00698	**0.0139**	<0.00698	<0.00698	**0.0105**	<0.00698
	IA2-SB9-30	30	1/25/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA2-SB9-40	40	1/25/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA2-MW1-5	5	1/24/2006	**0.221**	**0.115**	**0.108**	**0.0146**	**0.00768**	**0.0108**	<0.00768	<0.00768	**0.0138**	<0.00768	**0.0522**	**0.976**	<0.00768	**2.28**	**1.41**	**0.113**
	IA2-MW1-10	10	1/24/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA2-MW1-15	15	1/24/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA2-MW1-20	20	1/24/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA2-MW1-25	25	1/24/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA2-MW1-30	30	1/24/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA2-MW2-10	10	1/25/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA2-MW2-20	20	1/25/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA2-MW2-30	30	1/26/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA2-MW2-40	40	1/26/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA2-MW2-50	50	1/26/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA2-MW3-10	10	1/26/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA2-MW3-20	20	1/26/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA2-MW3-35	35	1/26/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA2-MW3-40	40	1/26/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA2-MW3-45	45	1/27/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
PRG: USEPA Region IX Preliminary Remedial Goals for Residential Soils, accessed March 2006.
RBSL: Risk Based Screening Levels from the California Regional Water Quality Control Board, SF Bay Region, February 2005.
Q = Detection levels elevated due to sample matrix.
IA2-SB6-5 DUP: "DUP" indicates Field Duplicate Sample.

NE: Screening Level Not Established.
NA: Not Analyzed
NS: Not Sampled

<0.0562	Sample not detected above laboratory detection limits.
0.0618	Sample results above laboratory detection limits, but below screening levels.
0.181	Sample detected above screening levels.
0.525	Sample detected above screening levels and for leaching to groundwater.
0.575	Laboratory detection limits above screening levels.

Table 9 - Soil Results
Semi-Volatile Organic Compounds (SVOC) (mg/Kg)
Requa Formerly Used Defense Site
Requa, California

Semi-Volatile Organic Compounds (SVOC) (mg/Kg)				EPA METHOD 8270C																
				Acenaphthene	Acenaphthylene	Anthracene	Benz[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene
Screening Criteria																			
RBSL (mg/Kg)	Shallow Soil (≤3m bgs)	Groundwater IS Current or Potential Source of Drinking Water	Residential	16.3	12.7	2.85	0.377	0.0377	0.377	NE	0.377	3.77	NE	40.0	8.94	0.377	0.462	10.7	85.1
			Industrial	18.7	12.7	2.85	1.28	0.128	1.28	NE	1.28	12.8	NE	40.0	8.94	1.28	1.48	10.7	85.1
		Groundwater IS NOT Current or Potential Source of Drinking Water	Residential	16.3	12.7	2.85	12.0	1.48	14.8	NE	2.66	19.4	NE	60.4	8.94	7.75	0.462	10.7	85.1
			Industrial	18.7	12.7	2.85	12.0	1.48	14.8	NE	14.8	23.2	NE	60.4	8.94	7.75	1.48	10.7	85.1
	Deep Soil (≥3m bgs)	Groundwater IS Current or Potential Source of Drinking Water	Residential	16.3	12.7	2.85	0.377	0.0377	0.377	NE	0.377	3.77	NE	40.0	8.94	0.377	0.462	10.7	85.1
			Industrial	18.7	12.7	2.85	1.28	0.128	1.28	NE	1.28	12.8	NE	40.0	8.94	1.28	1.48	10.7	85.1
		Groundwater IS NOT Current or Potential Source of Drinking Water	Residential	16.3	12.7	2.85	12.0	1.48	14.8	NE	2.66	19.4	NE	60.4	8.94	7.75	0.462	10.7	85.1
			Industrial	18.7	12.7	2.85	12.0	1.48	14.8	NE	14.8	23.2	NE	60.4	8.94	7.75	1.48	10.7	85.1
PRG (mg/Kg)	Direct Contact Exposure Pathway:		Residential	3,682	NE	21,896	0.621	0.0621	0.621	NE	6.21	62.1	NE	2,294	2,747	0.621	55.9	NE	2,316
			Industrial	29,219	NE	100,000	2.11	0.211	2.11	NE	21.1	211	NE	22,000	26,281	2.11	188	NE	29,126
	Soil Screening Level: Migration to Groundwater		Dilution A Factor 20	570	NE	12,000	2.00	8.00	5.00	NE	49.0	160	NE	4,300	560	14.0	84.0	NE	4,200
			Dilution A Factor 1	29	NE	590	0.0800	0.400	0.200	NE	2.00	8.00	NE	210	28.0	0.700	4.00	NE	210
Investigation Area	**Sample ID**	**Sample Depth (feet bgs)**	**Sample Date**																
IA3	IA3-SB1-10	10	5/25/2005	<0.00733	<0.00733	<0.00733	<0.00733	<0.00733	<0.00733	<0.00733	<0.00733	<0.00733	<0.00733	<0.00733	**0.0103**	<0.00733	**0.0615**	**0.00879**	<0.00733
	IA3-SB1-15	15	5/25/2005	**0.0238**	**0.0278**	**0.0270**	<0.00794	<0.00794	<0.00794	<0.00794	<0.00794	<0.00794	<0.00794	<0.00794	**0.201**	<0.00794	**0.0452**	**0.106**	**0.0175**
	IA3-SB1-20	20	5/25/2005	<0.00722	<0.00722	<0.00722	<0.00722	<0.00722	<0.00722	<0.00722	<0.00722	<0.00722	<0.00722	<0.00722	<0.00722	<0.00722	<0.00722	<0.00722	<0.00722
	IA3-SB1-30	30	5/25/2005	<0.00736	<0.00736	<0.00736	<0.00736	<0.00736	<0.00736	<0.00736	<0.00736	<0.00736	<0.00736	<0.00736	<0.00736	<0.00736	<0.00736	<0.00736	<0.00736
	IA3-SB2-10	10	5/25/2005	<0.00721	<0.00721	<0.00721	<0.00721	<0.00721	<0.00721	<0.00721	<0.00721	<0.00721	<0.00721	<0.00721	<0.00721	<0.00721	<0.00721	<0.00721	<0.00721
	IA3-SB2-20	20	5/25/2005	<0.00693	<0.00693	<0.00693	<0.00693	<0.00693	<0.00693	**0.0125**	<0.00693	<0.00693	<0.00693	<0.00693	**0.00970**	<0.00693	<0.00693	<0.00693	<0.00693
	IA3-SB3-10	10	7/26/2005	<0.00883	<0.00883	<0.00883	<0.00883	<0.00883	<0.00883	<0.00883	<0.00883	<0.00883	<0.00883	<0.00883	<0.00883	<0.00883	<0.00883	<0.00883	<0.00883
	IA3-SB3-25	25	7/26/2005	<0.00726	<0.00726	<0.00726	<0.00726	<0.00726	<0.00726	**0.0152**	<0.00726	<0.00726	<0.00726	<0.00726	**0.00871**	<0.00726	<0.00726	<0.00726	<0.00726
IA4	IA4-SB1-10	10	6/7/2005	<0.00707	<0.00707	<0.00707	<0.00707	<0.00707	<0.00707	**0.0212**	<0.00707	<0.00707	<0.00707	<0.00707	**0.0162**	<0.00707	<0.00707	**0.00847**	<0.00707
	IA4-SB1-25	25	6/7/2005	<0.00680	<0.00680	<0.00680	<0.00680	<0.00680	<0.00680	**0.0109**	<0.00680	<0.00680	<0.00680	<0.00680	**0.00815**	<0.00680	<0.00680	<0.00680	<0.00680
	IA4-SB2-10	10	6/8/2005	<0.00860	<0.00860	<0.00860	<0.00860	<0.00860	<0.00860	<0.00860	<0.00860	<0.00860	<0.00860	<0.00860	<0.00860	<0.00860	<0.00860	<0.00860	<0.00860
	IA4-SB2-45	45	6/8/2005	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713	<0.00713
	IA4-SB3-10	10	6/8/2005	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819
	IA4-SB3-35	35	6/8/2005	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759
IA5	IA5-SB1-10	10	5/26/2005	<0.00912	<0.00912	<0.00912	<0.00912	<0.00912	<0.00912	<0.00912	<0.00912	<0.00912	<0.00912	<0.00912	<0.00912	<0.00912	<0.00912	<0.00912	<0.00912
	IA5-SB1-15	15	5/26/2005	<0.00746	<0.00746	<0.00746	<0.00746	<0.00746	<0.00746	<0.00746	<0.00746	<0.00746	<0.00746	<0.00746	**0.0104**	<0.00746	**0.0582**	**0.00969**	<0.00746
	IA5-SB1-20	20	5/26/2005	**0.0839**	**0.0360**	**0.0575**	<0.00693	<0.00693	**0.00832**	**0.00970**	<0.00693	**0.00762**	<0.00693	**0.0194**	**0.383**	<0.00693	**0.349**	**0.448**	**0.0450**
	IA5-SB1-25	25	5/26/2005	<0.00708	<0.00708	<0.00708	<0.00708	<0.00708	<0.00708	<0.00708	<0.00708	<0.00708	<0.00708	<0.00708	**0.00778**	<0.00708	<0.00708	<0.00708	<0.00708
	IA5-SB1-30	30	5/26/2005	<0.00727	<0.00727	<0.00727	<0.00727	<0.00727	<0.00727	<0.00727	<0.00727	<0.00727	<0.00727	<0.00727	<0.00727	<0.00727	<0.00727	<0.00727	<0.00727
	IA5-SB2-15	15	7/26/2005	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800
	IA5-SB2-25	25	7/26/2005	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750
	IA5-SB3-20	20	7/28/2005	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755	<0.00755
	IA5-SB3-35	35	7/28/2005	<0.00729	<0.00729	<0.00729	<0.00729	<0.00729	<0.00729	**0.00947**	<0.00729	<0.00729	<0.00729	<0.00729	<0.00729	<0.00729	<0.00729	<0.00729	<0.00729
	IA5-SB3-35 DUP	35	7/28/2005	<0.00728	<0.00728	<0.00728	<0.00728	<0.00728	<0.00728	**0.0109**	<0.00728	<0.00728	<0.00728	<0.00728	**0.00801**	<0.00728	<0.00728	<0.00728	<0.00728
IA6	IA6-SB2-5	5	6/7/2005	<0.00791	<0.00791	<0.00791	<0.00791	<0.00791	<0.00791	<0.00791	<0.00791	<0.00791	<0.00791	<0.00791	<0.00791	<0.00791	<0.00791	<0.00791	<0.00791
	IA6-SB2-10	10	6/7/2005	**0.0102**	<0.00854	**0.0222**	<0.00854	<0.00854	<0.00854	<0.00854	<0.00854	<0.00854	<0.00854	<0.00854	**0.224**	<0.00854	**0.0196**	**0.0256**	**0.0196**
	IA6-SB2-15	15	6/7/2005	**0.00889**	<0.00808	**0.0186**	<0.00808	<0.00808	<0.00808	<0.00808	<0.00808	<0.00808	<0.00808	<0.00808	**0.197**	<0.00808	**0.0194**	**0.221**	**0.0178**
	IA6-SB2-20	20	6/7/2005	**0.0204**	<0.00815	**0.0122**	<0.00815	<0.00815	<0.00815	<0.00815	<0.00815	<0.00815	<0.00815	<0.00815	**0.139**	<0.00815	**0.0147**	**0.312**	**0.0155**
	IA6-SB2-25	25	6/7/2005	**0.0195**	**0.0109**	**0.0101**	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	**0.120**	<0.00780	**0.104**	**0.206**	**0.00936**
	IA6-SB2-25DUP	25	6/7/2005	**0.0450**	**0.0287**	**0.0302**	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	<0.00776	**0.233**	<0.00776	**0.198**	**0.435**	**0.0186**
	IA6-SB3-5	5	6/7/2005	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819
	IA6-SB3-10	10	6/7/2005	<0.00762	<0.00762	<0.00762	<0.00762	<0.00762	<0.00762	<0.00762	<0.00762	<0.00762	<0.00762	<0.00762	**0.0373**	<0.00762	<0.00762	**0.0594**	<0.00762
	IA6-SB3-15	15	6/7/2005	**0.0186**	**0.00788**	<0.00716	<0.00716	<0.00716	<0.00716	<0.00716	<0.00716	<0.00716	<0.00716	<0.00716	**0.0781**	<0.00716	**0.107**	**0.0652**	**0.00716**
	IA6-SB3-20	20	6/7/2005	<0.00668	<0.00668	<0.00668	<0.00668	<0.00668	<0.00668	**0.0127**	<0.00668	<0.00668	<0.00668	<0.00668	**0.0114**	<0.00668	<0.00668	<0.00668	<0.00668
	IA6-SB3-25	25	6/7/2005	<0.00687	<0.00687	<0.00687	<0.00687	<0.00687	<0.00687	**0.0220**	<0.00687	<0.00687	<0.00687	<0.00687	**0.0124**	<0.00687	<0.00687	<0.00687	<0.00687
	IA6-SB3-30	30	6/7/2005	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759
	IA6-SB4-10	10	7/28/2005	<0.00817	<0.00817	<0.00817	<0.00817	<0.00817	<0.00817	<0.00817	<0.00817	<0.00817	<0.00817	<0.00817	<0.00817	<0.00817	<0.00817	<0.00817	<0.00817
	IA6-SB4-40	40	7/28/2005	<0.00734	<0.00734	<0.00734	<0.00734	<0.00734	<0.00734	**0.0117**	<0.00734	<0.00734	<0.00734	<0.00734	<0.00734	<0.00734	<0.00734	<0.00734	<0.00734

Notes:
PRG: USEPA Region IX Preliminary Remedial Goals for Residential Soils, accessed March 2006.
RBSL: Risk Based Screening Levels from the California Regional Water Quality Control Board, SF Bay Region, February 2005.
Q = Detection levels elevated due to sample matrix.
IA2-SB6-5 DUP: "DUP" indicates Field Duplicate Sample.

NE: Screening Level Not Established
NA: Not Analyzed
NS: Not Sampled

<0.0562	Sample not detected above laboratory detection limits.
0.0418	Sample results above laboratory detection limits, but below screening levels.
0.181	Sample detected above screening levels.
0.578	Sample detected above screening levels and for leaching to groundwater.
0.578	Laboratory detection limits above screening levels.

Table 9 - Soil Results
Semi-Volatile Organic Compounds (SVOC) (mg/Kg)
Requa Formerly Used Defense Site
Requa, California

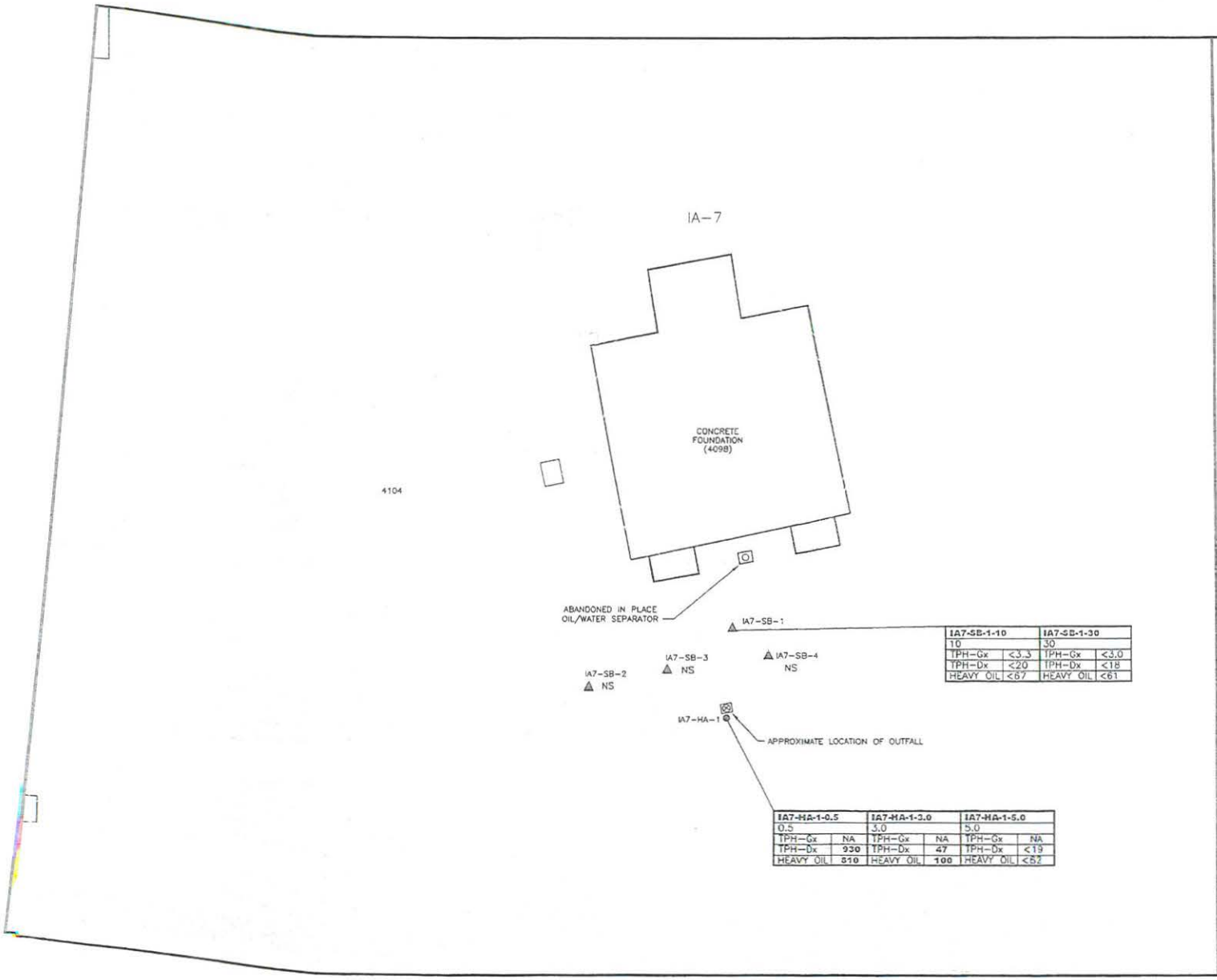
EPA METHOD 8270C

Semi-Volatile Organic Compounds (SVOC) (mg/Kg)				Acenaphthene	Acenaphthylene	Anthracene	Benz[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene
Screening Criteria																			
RBSL (mg/Kg)	Shallow Soil (≤3m bgs)	Groundwater IS Current or Potential Source of Drinking Water	Residential	16.3	12.7	2.85	0.377	0.0377	0.377	NE	0.377	3.77	NE	40.0	8.94	0.377	0.462	10.7	85.1
			Industrial	18.7	12.7	2.85	1.28	0.128	1.28	NE	1.28	12.8	NE	40.0	8.94	1.28	1.48	10.7	85.1
		Groundwater IS NOT Current or Potential Source of Drinking Water	Residential	16.3	12.7	2.85	12.0	1.48	14.8	NE	2.66	19.4	NE	60.4	8.94	7.75	0.462	10.7	85.1
			Industrial	18.7	12.7	2.85	12.0	1.48	14.8	NE	14.8	23.2	NE	60.4	8.94	7.75	1.48	10.7	85.1
	Deep Soil (≥3m bgs)	Groundwater IS Current or Potential Source of Drinking Water	Residential	16.3	12.7	2.85	0.377	0.0377	0.377	NE	0.377	3.77	NE	40.0	8.94	0.377	0.462	10.7	85.1
			Industrial	18.7	12.7	2.85	1.28	0.128	1.28	NE	1.28	12.8	NE	40.0	8.94	1.28	1.48	10.7	85.1
		Groundwater IS NOT Current or Potential Source of Drinking Water	Residential	16.3	12.7	2.85	12.0	1.48	14.8	NE	2.66	19.4	NE	60.4	8.94	7.75	0.462	10.7	85.1
			Industrial	18.7	12.7	2.85	12.0	1.48	14.8	NE	14.8	23.2	NE	60.4	8.94	7.75	1.48	10.7	85.1
PRG (mg/Kg)	Direct Contact Exposure Pathway:		Residential	3,682	NE	21,896	0.621	0.0621	0.621	NE	6.21	62.1	NE	2,294	2,747	0.621	55.9	NE	2,316
			Industrial	29,219	NE	100,000	2.11	0.211	2.11	NE	21.1	211	NE	22,000	26,281	2.11	188	NE	29,126
	Soil Screening Level: Migration to Groundwater		Dilution A Factor 20	570	NE	12,000	2.00	8.00	5.00	NE	49.0	160	NE	4,300	560	14.0	84.0	NE	4,200
			Dilution A Factor 1	29	NE	590	0.0800	0.400	0.200	NE	2.00	8.00	NE	210	28.0	0.700	4.00	NE	210
Investigation Area	**Sample ID**	**Sample Depth (feet bgs)**	**Sample Date**																
IA6	IA6-MW1-10	10	1/23/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA6-MW1-15	15	1/23/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA6-MW1-20	20	1/23/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA6-MW1-25	25	1/23/2006	**0.0974**	**0.00999**	**0.0899**	<0.00833	<0.00833	<0.00833	<0.00833	<0.00833	<0.00833	<0.00833	**0.0150**	**0.430**	<0.00833	**0.146**	**0.734**	**0.0483**
	IA6-MW1-30	30	1/23/2006	**0.103**	**0.0389**	**0.0599**	<0.00778	<0.00778	<0.00778	<0.00778	<0.00778	<0.00778	<0.00778	**0.0117**	**0.362**	<0.00778	**0.286**	**0.631**	**0.0420**
	IA6-MW2-10	10	1/17/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA6-MW2-30	30	1/17/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA6-MW2-40	40	1/17/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA6-MW2-50	50	1/20/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA6-MW2-55	55	1/20/2006	<0.00787	<0.00787	**0.0204**	<0.00787	<0.00787	<0.00787	<0.00787	<0.00787	<0.00787	<0.00787	<0.00787	**0.0692**	<0.00787	<0.00787	**0.0369**	**0.0204**
	IA6-MW2-60	60	1/20/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA6-MW3-25	25	1/18/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA6-MW3-30	30	1/19/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA6-MW3-40	40	1/19/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA6-MW3-45	45	1/19/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IA6-MW3-50	50	1/19/2006	<0.00779	<0.00779	<0.00779	<0.00779	<0.00779	<0.00779	<0.00779	<0.00779	<0.00779	<0.00779	<0.00779	<0.00779	<0.00779	<0.00779	<0.00779	**0.00857**
	IA6-MW3-55	55	1/19/2006	<0.00887	<0.00887	**0.0789**	<0.00887	<0.00887	<0.00887	<0.00887	<0.00887	<0.00887	<0.00887	**0.0213**	**0.429**	<0.00887	**0.0239**	**0.470**	**0.0638**
IA7	IA7-SB1-10	10	5/24/2005	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892
	IA7-SB1-30	30	5/24/2005	<0.00808	<0.00808	<0.00808	<0.00808	<0.00808	<0.00808	<0.00808	<0.00808	<0.00808	<0.00808	<0.00808	<0.00808	<0.00808	<0.00808	<0.00808	<0.00808
	IA7-HA1-0.5	0.5	7/29/2005	<0.0157	<0.0157	<0.0157	<0.0157	<0.0157	<0.0157	<0.0157	<0.0157	<0.0157	<0.0157	<0.0157	<0.0157	<0.0157	<0.0157	<0.0157	**0.0172**
	IA7-HA1-3.0	3	7/29/2005	<0.008300	<0.008300	<0.008300	<0.00830	<0.00830	<0.00830	<0.00830	<0.00830	<0.00830	<0.00830	**0.0232**	<0.00830	<0.00830	<0.00830	<0.00830	**0.0124**
	IA7-HA1-5.0	5	7/29/2005	<0.00825	<0.00825	<0.00825	<0.00825	<0.00825	<0.00825	<0.00825	<0.00825	<0.00825	<0.00825	<0.00825	<0.00825	<0.00825	<0.00825	<0.00825	<0.00825
IA8	IA8-SB1-10	10	6/8/2005	<0.00734	<0.00734	<0.00734	<0.00734	<0.00734	<0.00734	<0.00734	<0.00734	<0.00734	<0.00734	<0.00734	<0.00734	<0.00734	<0.00734	<0.00734	<0.00734
	IA8-SB1-25	25	6/8/2005	<0.00760	<0.00760	<0.00760	<0.00760	<0.00760	<0.00760	<0.00760	<0.00760	<0.00760	<0.00760	<0.00760	<0.00760	<0.00760	<0.00760	<0.00760	<0.00760
	IA8-HA1-0.5	0.5	6/8/2005	<0.0421 Q	**0.147**	**0.147**	0.327	**0.172**	0.500	**1.26**	**0.168**	**0.391**	**0.113**	**1.11**	<0.0421 Q	**0.244**	**0.0757**	**0.483**	**1.12**
	IA8-HA1-4.0	4	6/8/2005	<0.00916	<0.00916	<0.00916	<0.00916	<0.00916	**0.0183**	**0.0742**	<0.00916	**0.0128**	<0.00916	**0.0174**	<0.00916	**0.0147**	**0.0183**	**0.0128**	**0.0321**
	IA8-HA2-0.5	0.5	6/8/2005	**0.0403**	**0.0953**	**0.157**	0.259	**0.181**	0.375	**0.122**	**0.212**	**0.671**	**0.0403**	**2.70**	**0.0481**	**0.0860**	**0.0132**	**1.08**	**2.57**
	IA8-HA2-4.0	4	6/8/2005	<0.00853	<0.00853	<0.00853	<0.00853	<0.00853	<0.00853	<0.00853	<0.00853	<0.00853	<0.00853	<0.00853	<0.00853	<0.00853	<0.00853	<0.00853	<0.00853
	IA8-HA3-0.5	0.5	7/28/2005	<0.0457	<0.0457	**0.0502**	0.155	<0.0457	**0.0594**	**0.817**	<0.0457	<0.0457	**0.0913**	**0.0776**	<0.0457	**0.174**	**0.0594**	<0.0457	**0.0776**
	IA8-HA3-3.0	3	7/28/2005	<0.0224	**0.430**	**0.148**	0.240	**0.190**	0.262	**0.385**	**0.0919**	**0.240**	**0.0426**	**0.204**	**0.108**	**0.0650**	**0.164**	**0.199**	**0.845**
	IA8-HA3-5.0	5	7/28/2005	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103
	IA8-HA3-7.0	7	7/28/2005	<0.00744	<0.00744	<0.00744	<0.00744	<0.00744	<0.00744	**0.0134**	<0.00744	<0.00744	<0.00744	<0.00744	<0.00744	<0.00744	<0.00744	<0.00744	**0.00618**
	IA8-HA4-0.5	0.5	7/28/2005	<0.0183	<0.0183	**0.0238**	**0.0293**	**0.0220**	**0.121**	**0.857**	**0.0293**	**0.0238**	**0.0604**	**0.0238**	<0.0183	**0.179**	**0.0293**	**0.0201**	**0.0330**
	IA8-HA4-3.0	3	7/28/2005	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978
	IA8-HA4-3.0 DUP	3	7/28/2005	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892	<0.00892
	IA8-HA4-5.0	5	7/28/2005	<0.00865	<0.00865	<0.00865	<0.00865	<0.00865	<0.00865	<0.00865	<0.00865	<0.00865	<0.00865	<0.00865	<0.00865	<0.00865	<0.00865	<0.00865	<0.00865
	IA8-HA5-0.5	0.5	7/29/2006	<0.00924	<0.00924	<0.00924	<0.00924	<0.00924	<0.00924	<0.00924	<0.00924	<0.00924	<0.00924	<0.00924	<0.00924	<0.00924	<0.00924	<0.00924	<0.00924
	IA8-HA5-3.0	3	7/29/2005	<0.00954	<0.00954	<0.00954	<0.00954	<0.00954	<0.00954	<0.00954	<0.00954	<0.00954	<0.00954	<0.00954	<0.00954	<0.00954	<0.00954	<0.00954	<0.00954
	IA8-HA5-5.0	5	7/29/2005	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978	<0.00978
	IA8-HA6-0.5	0.5	7/29/2005	<0.0154	<0.0154	<0.0154	<0.0154	<0.0154	<0.0154	<0.0154	<0.0154	<0.0154	<0.0154	**0.0170**	<0.0154	<0.0154	<0.0154	<0.0154	**0.0170**
	IA8-HA6-3.0	3	7/29/2005	<0.0149	<0.0149	<0.0149	<0.0149	<0.0149	<0.0149	**0.0730**	<0.0149	<0.0149	<0.0149	**0.0164**	<0.0149	**0.0164**	**0.0670**	**0.0194**	**0.0209**
IA9																			
IA10	IA10-SB1-10	10	6/9/2005	<0.00705	<0.00705	<0.00705	<0.00705	<0.00705	<0.00705	<0.00705	<0.00705	<0.00705	<0.00705	<0.00705	<0.00705	<0.00705	<0.00705	<0.00705	<0.00705
	IA10-SB1-40	40	6/9/2005	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800	<0.00800
	IA10-SB1-45	45	6/9/2005	<0.00697	<0.00697	<0.00697	<0.00697	<0.00697	<0.00697	**0.0125**	<0.00697	<0.00697	<0.00697	<0.00697	**0.00975**	<0.00697	<0.00697	<0.00697	<0.00697
	IA10-SB2-10	10	6/9/2005	<0.00792	<0.00792	<0.00792	<0.00792	<0.00792	<0.00792	<0.00792	<0.00792	<0.00792	<0.00792	<0.00792	<0.00792	<0.00792	<0.00792	<0.00792	<0.00792
	IA10-SB2-35	35	6/9/2005	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	**0.0123**	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725	<0.00725
	IA10-SB2-40	40	6/9/2005	<0.00735	<0.00735	<0.00735	<0.00735	<0.00735	<0.00735	<0.00735	<0.00735	<0.00735	<0.00735	<0.00735	<0.00735	<0.00735	<0.00735	<0.00735	<0.00735
	IA10-SB3-10	10	7/29/2005	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750	<0.00750
	IA10-SB3-20	20	7/29/2005	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759	<0.00759

Notes:
PRG: USEPA Region IX Preliminary Remedial Goals for Residential Soils, accessed March 2006.
RBSL: Risk Based Screening Levels from the California Regional Water Quality Control Board, SF Bay Region, February 2005.
Q = Detection levels elevated due to sample matrix.
IA2-SB6-5 DUP: "DUP" indicates Field Duplicate Sample.

NE: Screening Level Not Established.
NA: Not Analyzed
NS: Not Sampled

<0.0562	Sample not detected above laboratory detection limits.
0.0618	Sample results above laboratory detection limits, but below screening levels.
0.181	Sample detected above screening levels.
0.578	Sample detected above screening levels and for leaching to groundwater.
0.578	Laboratory detection limits above screening levels.



IA7-SB-1-10		IA7-SB-1-30	
10		30	
TPH-Gx	<3.3	TPH-Gx	<3.0
TPH-Dx	<20	TPH-Dx	<18
HEAVY OIL	<67	HEAVY OIL	<61

IA7-HA-1-0.5		IA7-HA-1-3.0		IA7-HA-1-5.0	
0.5		3.0		5.0	
TPH-Gx	NA	TPH-Gx	NA	TPH-Gx	NA
TPH-Dx	**930**	TPH-Dx	**47**	TPH-Dx	<19
HEAVY OIL	**810**	HEAVY OIL	**100**	HEAVY OIL	<62

LEGEND:

▲ ATC SOIL BORING LOCATION

⊗ ATC HAND AUGER LOCATION

TOTAL PETROLEUM HYDROCARBONS-GASOLINE, DIESEL AND HEAVY OIL (mg/kg)
NA = NOT ANALYZED
NS = NOT SAMPLED

SAMPLE ID
SAMPLE DEPTH (FEET BGS)
GASOLINE RANGE (mg/kg)
DIESEL RANGE (mg/kg)
HEAVY OIL (mg/kg)

RESULT = LABORATORY REPORTING DETECTION LIMIT (RDL) IS ABOVE SCREENING VALUE.

BOLD RESULT = SAMPLE RESULT IS ABOVE REPORTING DETECTION LIMIT (RDL).

BOLD AND SHADED RESULT = SAMPLE RESULT IS ABOVE REPORTING DETECTION LIMIT (RDL) AND SCREENING VALUE.

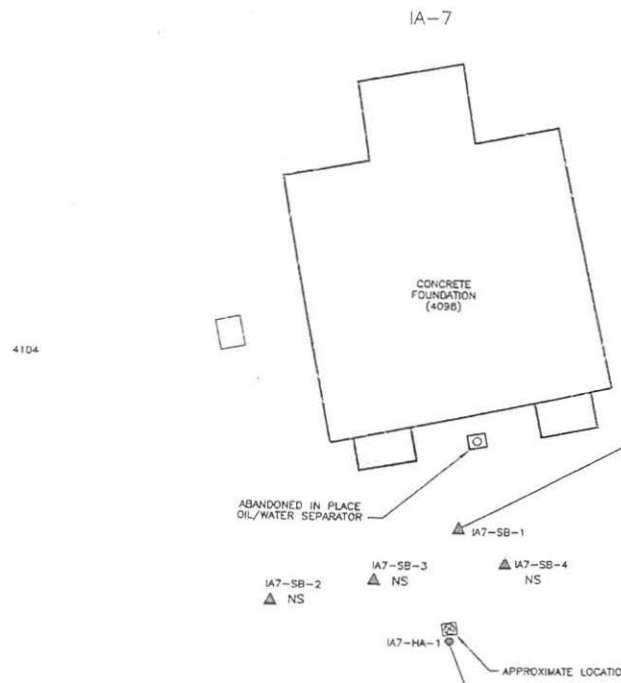
N

0 20
SCALE IN FEET

ATC ASSOCIATES INC.
11825 SW GREENBURG ROAD #28
TIGARD, OREGON 97223

TOTAL PETROLEUM HYDROCARBONS IN SOIL
AREA IA-7 (FAA)
REQUA FORMERLY USED DEFENSE SITE
REQUA, CALIFORNIA

JOB NO. 38.28580.0001	FIGURE 10a	DATE: 05/25/06	DRAWN BY: MTH



IA7-SB-1-10	10	IA7-SB-1-30	30
Ac	<0.00892	Ac	<0.00808
Ace	<0.00892	Ace	<0.00808
An	<0.00892	An	<0.00808
B(a)	<0.00892	B(a)	<0.00808
B(a)P	<0.00892	B(a)P	<0.00808
B(b)	<0.00892	B(b)	<0.00808
B(g,h,i)	<0.00892	B(g,h,i)	<0.00808
B(k)	<0.00892	B(k)	<0.00808
C	<0.00892	C	<0.00808
D	<0.00892	D	<0.00808
FLA	<0.00892	FLA	<0.00808
FIR	<0.00892	FIR	<0.00808
I	<0.00892	I	<0.00808
N	<0.00892	N	<0.00808
P	<0.00892	P	<0.00808
PY	<0.00892	PY	<0.00808

IA7-HA-1-0.5	0.5	IA7-HA-1-3	3	IA7-HA-1-5	5
Ac	<0.0157	Ac	<0.00830	Ac	<0.00825
Ace	<0.0157	Ace	<0.00830	Ace	<0.00825
An	<0.0157	An	<0.00830	An	<0.00825
B(a)	<0.0157	B(a)	<0.00830	B(a)	<0.00825
B(a)P	<0.0157	B(a)P	<0.00830	B(a)P	<0.00825
B(b)	<0.0157	B(b)	<0.00830	B(b)	<0.00825
B(g,h,i)	<0.0157	B(g,h,i)	<0.00830	B(g,h,i)	<0.00825
B(k)	<0.0157	B(k)	<0.00830	B(k)	<0.00825
C	<0.0157	C	<0.00830	C	<0.00825
D	<0.0157	D	<0.00830	D	<0.00825
FLA	<0.0157	FLA	**0.0232**	FLA	<0.00825
FIR	<0.0157	FIR	<0.00830	FIR	<0.00825
I	<0.0157	I	<0.00830	I	<0.00825
N	<0.0157	N	<0.00830	N	<0.00825
P	<0.0157	P	<0.00830	P	<0.00825
PY	<0.0157	PY	<0.00830	PY	<0.00825

LEGEND:

△ ATC SOIL BORING LOCATION

⊙ ATC HAND AUGER LOCATION

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOC)
(mg/kg)
NA = NOT ANALYZED
NS = NOT SAMPLED

SAMPLE ID	SAMPLE DEPTH (Feet bgs)
Ac=Acenaphthene	
Ace=Acenaphthylene	
An=Anthracene	
B(a)=Benzo[a]Anthracene	
B(a)P=Benzo[a]pyrene	
B(b)=Benzo[b]fluoranthene	
B(g,h,i)=Benzo[g,h,i]perylene	
B(k)=Benzo[k]fluoranthene	
C=Chrysene	
D=Dibenzo[,h]anthracene	
FLA=Flouranthene	
FIR=Fluorene	
I=Indeno[1,2,3-cd]pyrene	
N=Naphthalene	
P=Phenanthrene	
PY=Pyrene	

RESULT = LABORATORY REPORTING DETECTION LIMIT (RDL) IS ABOVE SCREENING VALUE.

BOLD RESULT = SAMPLE RESULT IS ABOVE REPORTING DETECTION LIMIT (RDL).

BOLD AND SHADED RESULT = SAMPLE RESULT IS ABOVE REPORTING DETECTION LIMIT (RDL) AND SCREENING VALUE.

NOTE:
EPA METHOD 8270C.

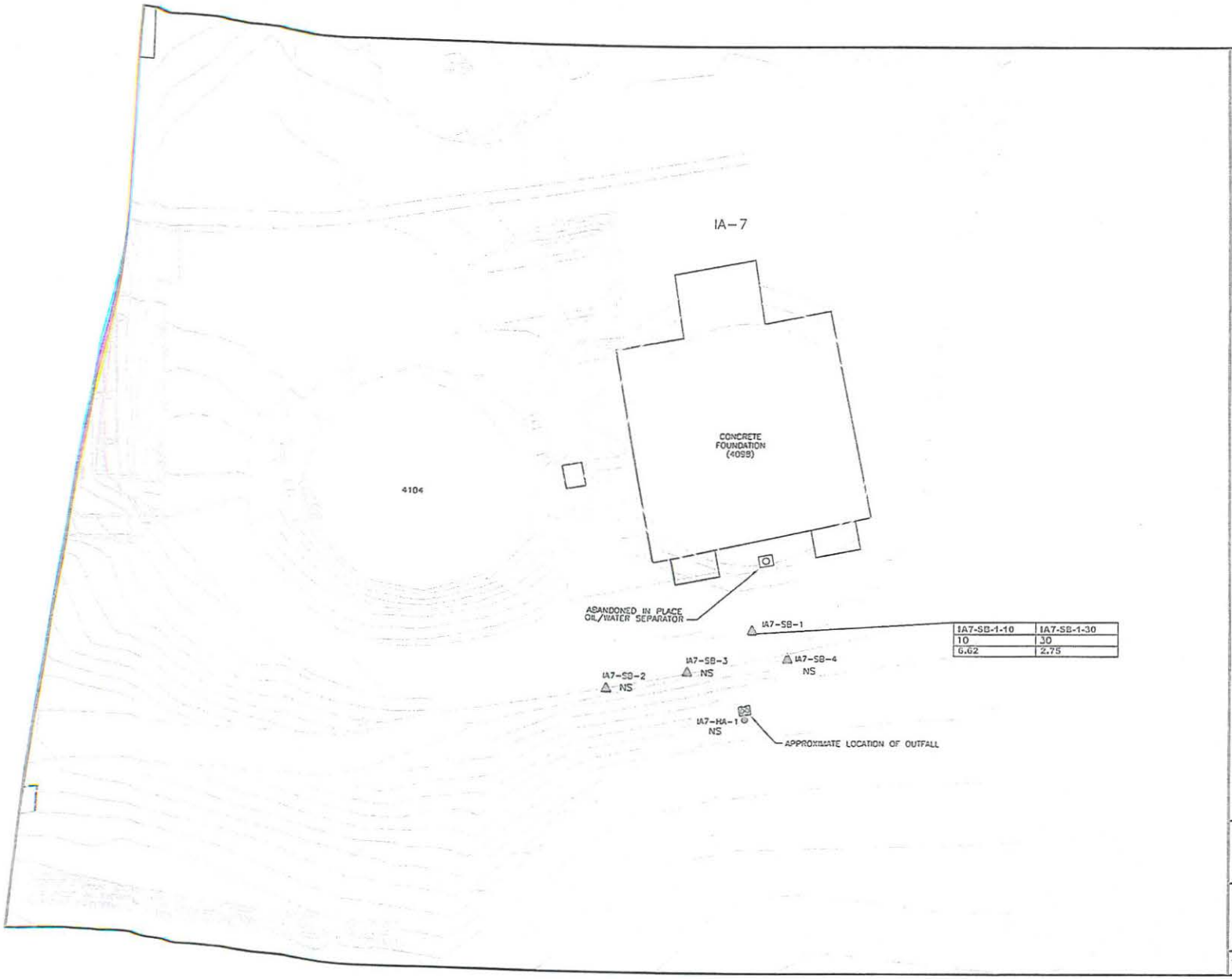
N

0 20
SCALE IN FEET

ATC ASSOCIATES INC.
11825 SW GREENBURG ROAD #28
TIGARD, OREGON 97223

SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL AREA IA-7 (FAA)
REQUA FORMERLY USED DEFENSE SITE
REQUA, CALIFORNIA

JOB NO.	FIGURE	DATE:	DRAWN BY:
38.28580.0001	10c	05/25/06	MTH



IA7-SB-1-10	IA7-SB-1-30
10	30
6.62	2.75

LEGEND:

ATC SOIL BORING LOCATION

ATC HAND AUGER LOCATION

TOTAL METALS (mg/kg) LEAD
NA = NOT ANALYZED
NS = NOT SAMPLED

SAMPLE ID
SAMPLE DEPTH (FEET BGS)
LEAD (mg/kg)

BLUE RESULT = LABORATORY REPORTING DETECTION LIMIT (RDL) IS ABOVE SCREENING VALUE.

BOLD RESULT = SAMPLE RESULT IS ABOVE REPORTING DETECTION LIMIT (RDL).

BOLD AND SHADED RESULT = SAMPLE RESULT IS ABOVE REPORTING DETECTION LIMIT (RDL) AND SCREENING VALUE.

N

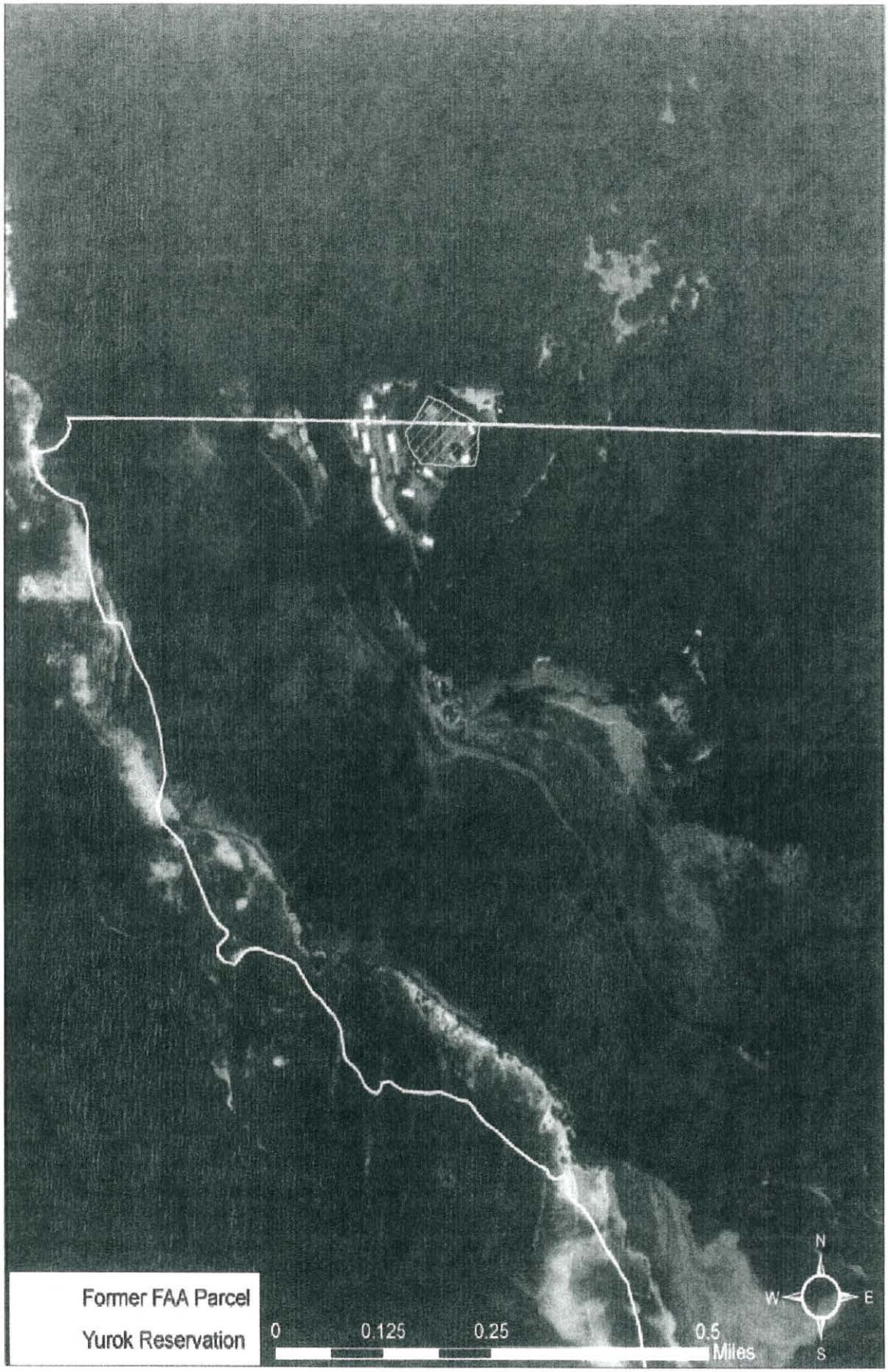
0 20
SCALE IN FEET

ATC ASSOCIATES INC.
11025 SW GREENBURG ROAD #20
TIGARD, OREGON 97223

TOTAL LEAD IN SOIL
AREA IA-7 (FAA)
REQUA FORMERLY USED DEFENSE SITE
REQUA, CALIFORNIA

JOB NO.	FIGURE	DATE:	DRAWN BY:
38.28580.0001	10d	05/25/06	MTH

Attachment B


Former FAA Parcel
Yurok Reservation
0
0.125
0.25
0.5
Miles
N
W
E
S

Attachment C

Photo # 1

Standing in the middle on the concrete radar pad and looking north at the foundation of building 102 and further towards the radar site boundary fencing at building 100 on the adjacent property. Building 100 is down gradient to the radar site property.

Requa AF Radar Site
NPS deed listing tract number 03-165
Yurok Land Transfer

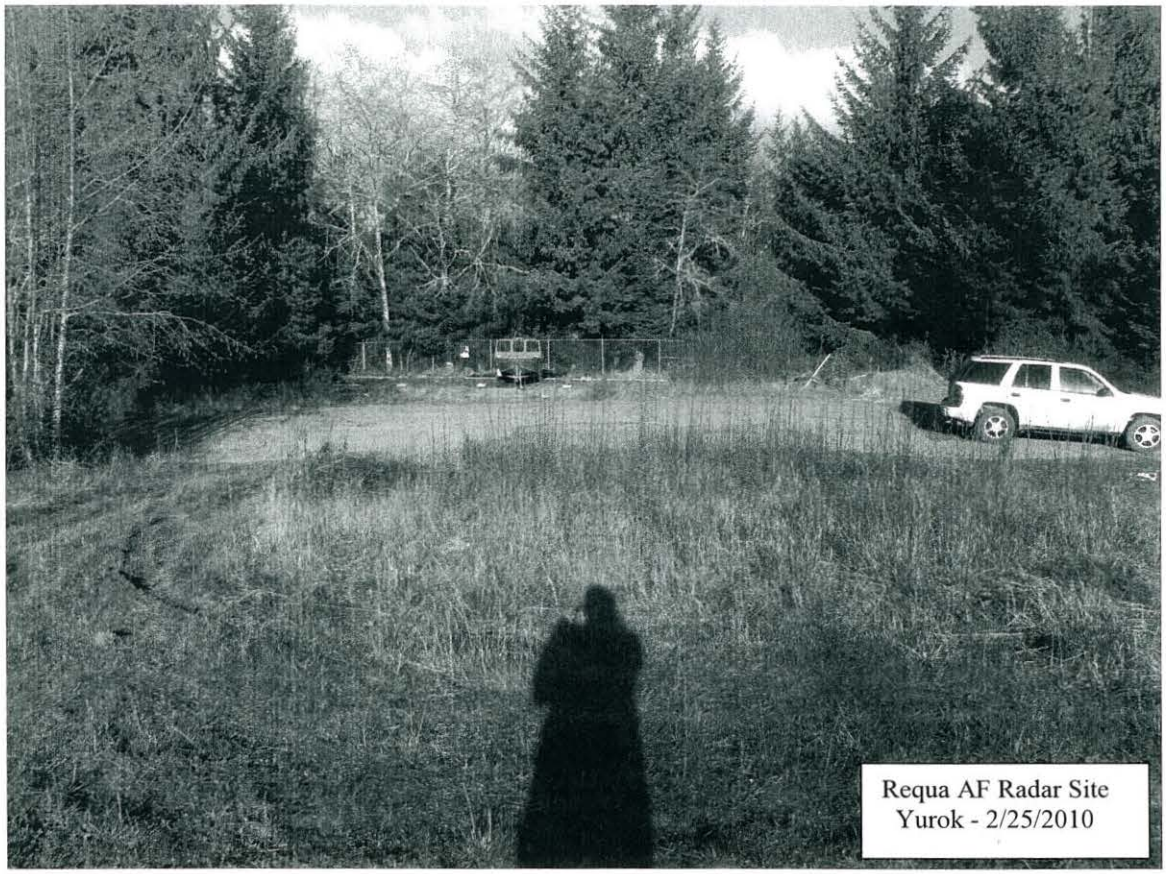


Photo # 2

Standing in the northeast corner of the concrete radar pad and looking west towards the entry road parking turnout and the radar site boundary fencing beyond the removed build 106 concrete pad.

Requa AF Radar Site
NPS deed listing tract number 03-165
Yurok Land Transfer

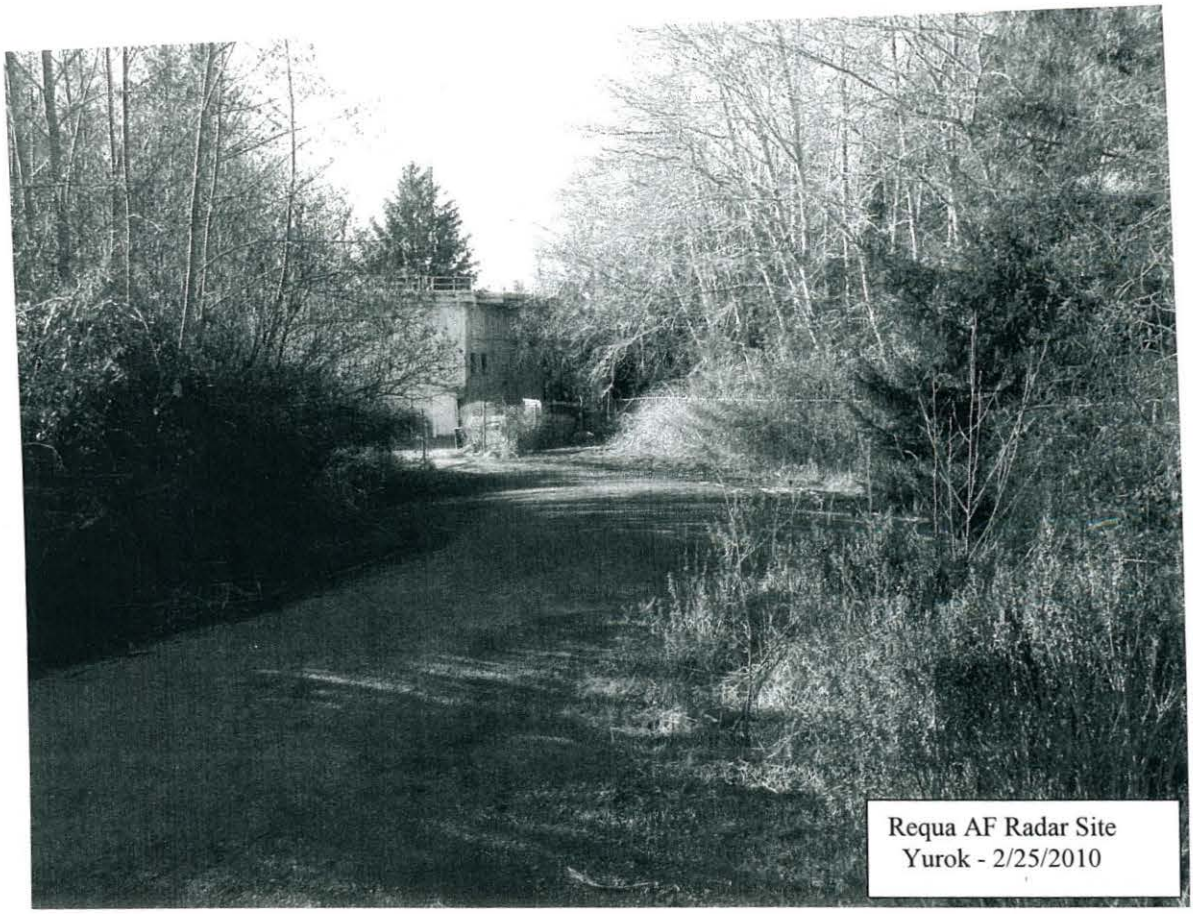


Photo # 3

Looking north from the west entry road of the radar site property. The gated fence barely visible at the end of the road is the entrance to the radar property.

Requa AF Radar Site
NPS deed listing tract number 03-165
Yurok Land Transfer

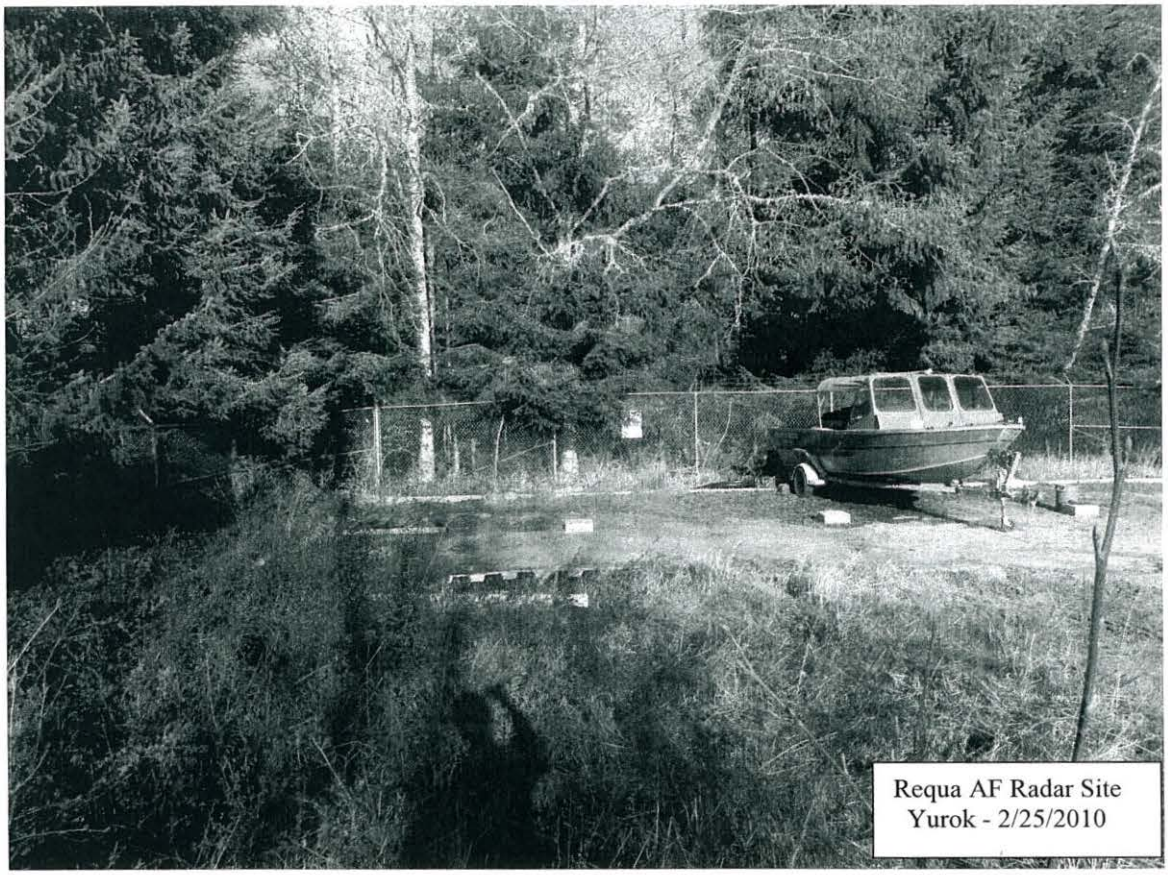


Photo # 4

Standing at the entrance road at the west portion of the radar site and looking east towards the northern end of the removed Building 106 concrete pad and the radar site boundary fencing. The boat on the concrete pad is temporarily stored by the Yurok Tribe.

Requa AF Radar Site
NPS deed listing tract number 03-165
Yurok Land Transfer

Photo # 5

Standing at the turnout of the entrance road at the west portion of the radar site and looking east towards the northern portion of the removed Building 106 concrete pad and the radar site boundary fencing. The boat on the concrete pad is temporary storage by the Yurok Tribe.

Requa AF Site Parcel
NPS deed listing tract number 03-165
Yurok Land Transfer

Photo # 6

Standing at the southern portion of the property of the radar site and looking towards the southern property boundary beyond the outfall.

Requa AF Radar Site
NPS deed listing tract number 03-165
Yurok Land Transfer

Photo # 7

Standing at the western portion of the property and looking east with the southern portion of the radar pad towards the right and at the top of this roadway.

Requa AF Radar Site
NPS deed listing tract number 03-165
Yurok Land Transfer

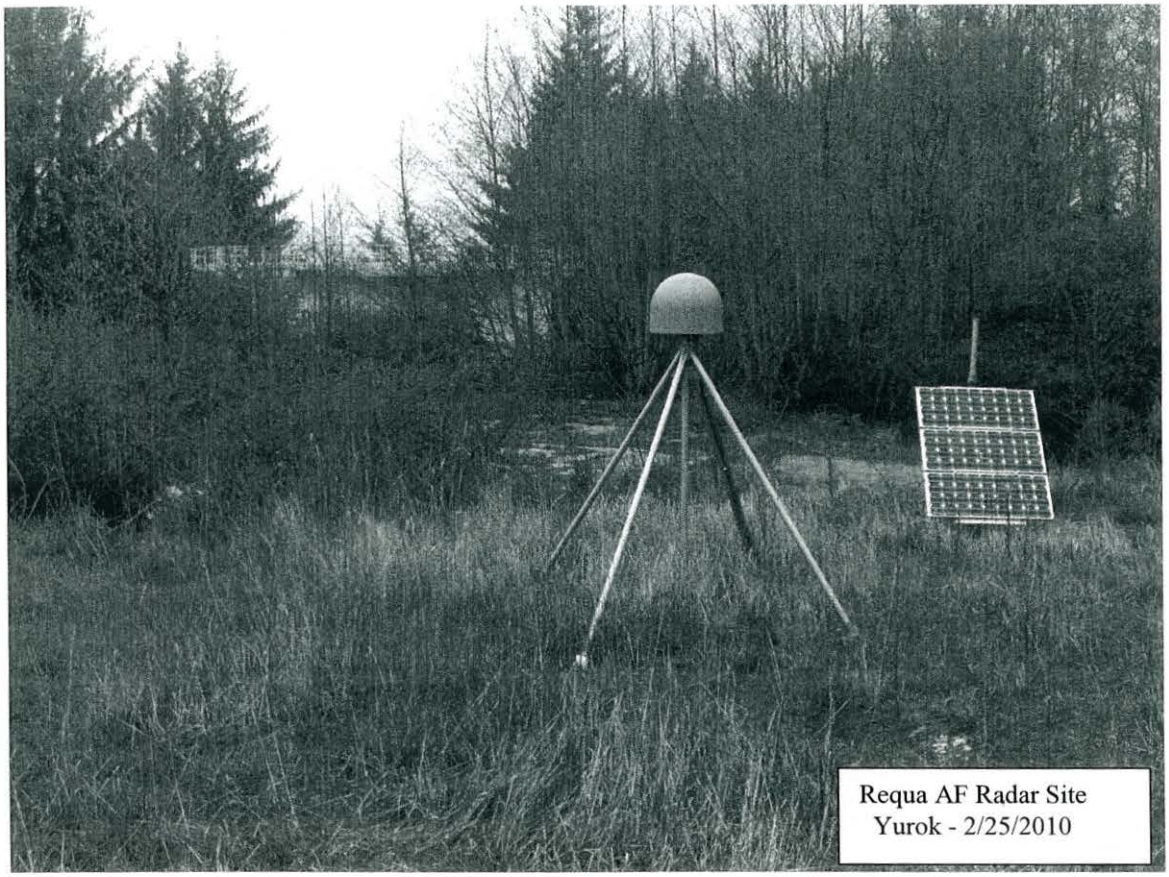


Photo # 8

Standing in the middle on the concrete radar pad and looking West at the adjacent property and the radar site boundary fencing. The building adjacent is down gradient to the radar site property and is the abandoned transportation building. The unit in the middle of the picture is a USGS seismic monitoring system.

Requa AF Radar Site
NPS deed listing tract number 03-165
Yurok Land Transfer

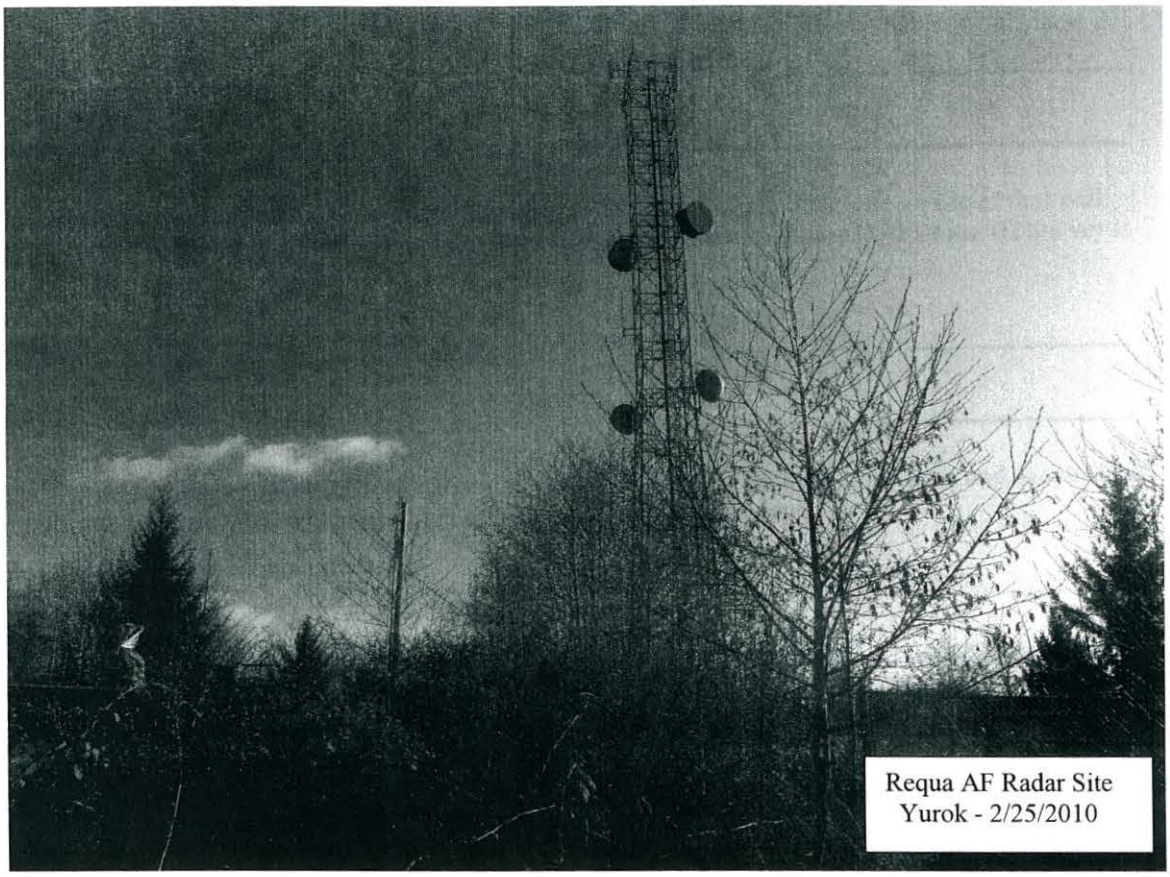


Photo # 9

Standing on the concrete radar pad and looking Southwest at the adjacent property at the cell phone tower presently in operation.

Requa AF Radar Site
NPS deed listing tract number 03-165
Yurok Land Transfer

I. CERTIFICATION by Consultant or Agency Environmental Protection Spec.

1. I have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527 at the Bunker Hill Mine site located on the eastern bank of the Klamath River, approximately ten miles south of Happy Camp, Siskiyou County, California. This assessment has revealed no evidence of recognized environmental conditions in connection with the property. I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental professional as defined in §312.10 of 40 CFR 312. I have specific qualification based on education, training and experience to assess a property of nature, history and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Signed _____ **Print Name** **Larry Blevins**

Date 3/22/2010 **Title** **Environmental Protection Specialist**

2. On the basis of the information collected to complete this form, it is possible to reasonably conclude that there is a potential for contaminants, or the effects of contaminants, to be present on this real estate.

Signed _____ **Print Name** _____

Date _____ **Title** _____

3. The surveyed real estate, or a portion thereof, contains contaminants. The owner of that real estate has/will cleanup the contaminants to Bureau specifications. A Phase II or Phase III Survey is not required.

Signed _____ **Print Name** _____

Date _____ **Title** _____

J. Agency Environmental Protection Specialist - Reviewed the report findings and conclusions in the field with the consulting company and recommend approval.

Signed _____ **Print Name** **Larry Blevins**

Date 3/22/2010 **Title** **Environmental Protection Specialist**

K. Pacific Regional Office - Reviewed and recommend approval.

Signed _____ **Print Name** **John Rydzik**

Date 3/22/10 **Title** **Regional Environmental Scientist**

L. Pacific Regional Office - Approving Official:

I approve the above report and its certification.

Signed _____ **Print Name** **Dale Risling**

Date 3/23/10 **Title** **Acting Regional Director**

Acting Regional Director