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MCB CAMP LEJUENE
5090.3a

AGENCY FOR TOXIC SUBSTANCE AND DISEASE REGISTRY RECORD OF ACTIVITY 1992
MCB CAMP LEJEUNE NC
11/30/1992
AGENCY FOR TOXIC SUBSTANCE AND DISEASE REGISTRY

ATSDR Record of Activity

UID #: _____ Date: November 30, 1992 Time: 1:39 pm

Site Name: Marine Corps Base Camp Lejeune City: Jacksonville Cnty: Onslow
 State: NC

CERCLIS #: _____ Cost Recovery #: 405E Region: 4

Site Status (1) NPL Non-NPL RCRA Non-Site specific Federal
 (2) Emergency Response Remedial Other

Activities

Incoming Call Public Meeting Health Consult Site Visit Outgoing Call Other Meeting Health Referral Info Provided
 Conference Call Data Review Written Response Training Incoming Mail Other

Requestor: ()
 Affiliation:
 Phone: Address:
 City: State: Zip Code:

Contacts and Affiliation

(27) George Radford, IRP Manager
 ()

- | | | | | | | |
|-----------------|---------------|--------------|---------------|----------------|---------------|--------------|
| 1-EPA | 2-USCG | 3-OTHER FED | 4-STATE ENV | 5-STATE HLT | 6-COUNTY HLTH | 7-CITY HLTH |
| 8-HOSPITAL | 9-LAW ENFORCE | 10-FIRE DEPT | 11-POISON CTR | 12-PRIV CITZ | 13-OTHER | 14-UNKNOWN |
| 15-DDD | 16-DOE | 17-NOAA | 18-OTHR STATE | 19-OTHR COUNTY | 20-OTHR CITY | 21-INTL |
| 22-CITZ GROUP | 23-ELECT OFF | 24-PRIV CO | 25-NEWS MEDIA | 26-ARMY | 27-NAVY | 28-AIR FORCE |
| 29-DEF LOG AGCY | 30-NRC | 31-ATSDR | | | | |

Program Areas

Health Assessment Health Studies Tox Info-profile Worker Hlth Petition Assessment Health Surveillance Tox Info-Nonprofile Admin
 Emergency Response Disease Registry Subst-Spec Resch Other Health Consultation Exposr Registry Health Education

Narrative Summary:

In 1985, MCBCL checked all raw water supply wells, and that is how they discovered the Tarawa Terrace and Hadnot Point VOC contaminations. Currently, they are checking treated water from the water treatment plants quarterly. They are gearing up to check for lead at the tap.

The wells on MCBCL are pumped on a intermittent basis to distribute the draw on the aquifer. Different wells are pumped on different days. The schedule is on a plexiglass marker board at the water department. During winter when demand is low, some wells are not pumped. Since well waters are blended, MCBCL felt it was not likely that VOC contaminated water above drinking water MCLs was consumed. EPA must have agreed, because MCBCL was not required to notify the public.

He will check with the water department to see if they have data from the treatment plant for circa 1985.

Asked him to check with Naval Hospital about getting info from the Housing Office about marines who occupied housing for longer than 3-5 years. He said they use 10-15 years for housing occupation time in their risk assessments. He said he would check and see if Housing had any records of people living in houses for that period of time.

The well with benzene contamination near Russel Elementary, was also discovered during the 1985 sampling. The contamination is not from an IRP site, but from a UST.

There are no new environmental data.

Action Required/Recommendations/Info Provided:
Follow-up on requested items.

Signature: *A. Soyars* Date: November 30, 1992

cc: Letty Arredondo, Diane Jackson

Enclosures: Yes () No (); MIS entered: Yes () No ()

ATSDR Record of Activity

UID #:_ _ _ _ Date: 5/19/92 Time: 9:30 am pm

Site Name: **Marine Corps Base Camp Lejeune** City: Jacksonville Cnty: Onslow
State: NC CERCLIS #: NCD024644494 Cost Recovery #: 405E Region: IV

Site Status: (1) NPL

Activities: Meeting

Contacts and Affiliation: (1) Michelle Glenn, EPA Reg. 4 RPM
(31) Carl Blair, ATSDR Reg. 4 Rep.

Program Areas: Health Assessment

Narrative Summary:

I attended meetings at EPA Reg. 4 offices chaired by Ms. Glenn. I requested a copy of the attendance list, and hopefully will get a copy of any minutes. NAVFAC, Navy contractor-Baker Environmental, NCDEHNR, NOAA were there. The first meeting discussed the Remedial Action at HPIA Site 22. The Remedial Action Workplan is completed. I advised NAVFAC that ATSDR had not received any documents for almost 1 year, and we would be going red cover in a couple of months. NAVFAC said they would send us reports that had been completed.

The second meeting dealt with Site 69-Rifle Range Chemical Dump and Site 74-Messhall Greasepit. Senior Geologist, Baker Environment did the presentation and will be the lead investigator because he has experience with chemical surety; i.e., agents. The Navy is 99% sure there are chemical agents at Site 69. Site 74 is being investigated similarly because of one memo that states that a shipment of drums destined for Site 69 was diverted to Site 74. The Navy intends to do one investigation of the sites, not the normal phased approach which could take several years.

Site 69. Information provided in the meeting:

1. There is an elementary school 1 mile from the site (south or southwest).
2. Camp Lejeune was allowed to store agent munitions under tight security. All have strictly been accounted for.
3. Agents dissolve in water and are less toxic. Agents are designed to dissipate in 48 hours.
4. There are different types of agent test kits.
 - a. Some test kits do contain agents, usually mustard gas or blistering agents.
 - b. Most kits just contain indicator chemical for various agents.
 - c. Medical kits could cause problem; they have atropine in a spring loaded needle. Possible to accidentally trigger the atropine needle and drive the needle 1 inch into some part of the body.
 - d. Officers kits have a 1% solution of blistering agent; officers have to be exposed to the agent once a year to stay qualified to lead a chemical agent unit.
5. Agents can be dormant and made active again. Mustard gas can regenerate under certain conditions; combines tightly to soil and disturbing could release it. Nerve agents could recombine during sampling and handling and become active. Baker will send Army document on agents AR 38-86 360-6 Aug 84.

Enclosures: Yes () No (X); MIS entered: Yes () No (X)

6. There may be a problem with white phosphorus in surface water or in wet environments. Army considers white phosphorus, smoke ordnance as agents.
7. Possibility crowd control agents could recrystallize on skin and cause a problem.
8. Most agent use in a war has been more devastating for the user than target.
9. Freezing is the method of choice for demilitarizing chemical weapons. Frozen agent is scraped out of shell and neutralized.
10. Point was made that there is no civilian equivalent of military chemical warfare protective equipment. What Level protection is needed? EPA's position was that health and safety plan mechanics are the responsibility of the contractor.
11. Soil samples will be frozen in liquid nitrogen in case of chemical agents; will research the water situation because acidifying could regenerate any agents.
12. I asked if there was any emergency response procedure or contingency plan in case of a release, since the elementary school is near and housing is to the north/northwest. Baker Environmental said that was the responsibility of the range officer and U.S. Army Technical Escort Unit (ATEU). Baker Environmental will have a trailer on site for decon procedures.
13. Many incompatible wastes buried on site. One drum exploded in the past; possibly CaOH.

A tree knocked the fence down; assume fence repaired. Fence has barbed wire; however, troop still enter during maneuvers or exercises. If they want people kept out, the site must be "red flagged". Only VOCs and inorganics detected in monitoring wells on one side of site. USACMDA provided them with a list of agents and degradation products. There are no reported UXOs at the site. Reports of PCBs disposed of in concrete septic tanks. GW flow is radial, because site is at a high point. Don't want to put too many wells in because they might lower the water table and cause incompatible wastes to mix or break drums. Geophysical survey completed; terrain conductivity. Will do ground penetrating radar (GPR) at drilling sites.

Aquatic survey report being written; did not find anything. Several significant SW drainage off the site. No benthic population in the beds; intermittent flow. Part of the water are groundwater seeps. Currently believe the fence encloses the disposal area. Because of the potential for release and mixing of incompatible chemicals, the site will not be characterized in the usual way; mostly visual and surface sampling.

Baker stated that soil sampling will occur across the disposal area. Depth for surficial sampling will be 0-6 inches. I stated that according to our data needs doc published in Fed Reg, ATSDR considers surface soil less than 3 inches. Baker wanted to know if this was with surface debris removed; I said yes. They asked if 0-6 inches was okay; I said it depended on what and if they found anything. Plan was to do 0-6 inches and if they detected any contaminants, come back and do 0-3 in to satisfy our needs.

Deep well and shallow wells will be drilled; they will be in the same hydrological unit. Plan to start in December or January because of the need

Enclosures: Yes () No (X); MIS entered: Yes () No (X)

to be in Level B; colder temps will be more comfortable. Workplan due June 7.

Site 74. Geophysical survey detected buried metal objects. Site also includes a pesticide area. Aerial photos available. There is a pumping well nearby; Baker is going to follow up to find out more about the well. One monitoring well is presumed lost; cannot find it. Closest surface water is Henderson Pond, 1/2 mile away; there are drainage ditches along the road. Some ponded water areas will be researched to see if they are considered wetlands. Baker intends to trench in the site, 4-5 feet deep, 10-20 feet long to determine if there is any soil staining and to identify general soil classification. Baker will also do soil borings and monitoring wells. Based on reports, the waste may have been disposed of by direct surface distribution; pesticides, VOCs, PCBs. The plan is to remediate if no chemical agents are found or suspected. EPA requested they check for dioxins.

Other sites.

Ms. Glenn has EPIC aerial survey of Site 48-Mercury Dump Site which shows past practices, which is why Site 48 may be a no action site. She said people have comments and objections to abandoning investigation until they see the aerials. Will plan a trip to look at the aerials. More EPIC stuff were requested by EPA.

Ms. Glenn said Naval Environmental Health Center (NEHC) was preparing a check list with ATSDR's data needs (this was confirmed by telephone with CDR Williams; he is using the Federal Register document to construct a checklist; we will get a copy to review).

Comment was made by Baker about a lead problem at Camp Lejeune. According to a news report, Camp Lejeune drinking water in some of the residences had the highest lead in the nation. Will followup for more information.

Investigations by Baker at Site 2-Former Day Care did not analyze for dioxin. EPA requested it.

I asked Carl Blair to check on the status of the ABC Cleaners site.

Action Required/Recommendation/Information Provided:

1. Call NAVFAC and get additional documents that may have been generated. Also, check on the lead situation.
2. Call NAVFAC or Camp Lejeune and check on status of the fence.

Signature: _____ Date: May 20, 1993

cc: Diane Jackson, Letty Arredondo, Carl Blair, John Abraham

Enclosures: Yes () No (X); MIS entered: Yes () No (X)

ATSDR Record of Activity

UID #: _____ Date: November 30, 1992 Time: 1:39 pm

Site Name: Marine Corps Base Camp Lejeune City: Jacksonville Cnty: Onslow State: NC
CERCLIS #: _____ Cost Recovery #: 405E Region: 4

Site Status (1) NPL Non-NPL RCRA Non-Site specific Federal
(2) Emergency Response Remedial Other

Activities

Incoming Call Conference Call Public Meeting Data Review Health Consult Written Response Site Visit Training Outgoing Call Incoming Mail Other Meeting Other Health Referral Info Provided

Requestor: ()

Affiliation:

Phone: Address:

City: State: Zip Code:

Contacts and Affiliation

(27) George Radford, IRP Manager

()

1-FPA	2-ISCOG	3-OTHER FED	4-STATE ENV	5-STATE HI T	6-COUNTY HLTH	7-CITY HI TH
8-HOSPITAL	9-LAW ENFORCE	10-FIRE DEPT	11-POISON CTR	12-PRIV CITZ	13-OTHER	14-UNKNOWN
15-DOD	16-DOE	17-NOAA	18-OTHR STATE	19-OTHR COUNTY	20-OTHR CITY	21-INTL
22-CITZ GROUP	23-ELECT OFF	24-PRIV CO	25-NEWS MEDIA	26-ARMY	27-NAVY	28-AIR FORCE
29-DEF LOG AGCY	30-NRC	31-ATSDR				

Program Areas

Health Assessment Health Studies Tox Info-profile Worker Hlth Petition Assessment Health Surveillnc Tox Info-Nonprofile
 Admin Emergency Response Disease Registry Subst-Spec Resch Other Health Consultation Exposr Registry Health Education

Narrative Summary:

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The well with benzene contamination near Russel Elementary, was also discovered during the 1985 sampling. The contamination is not from an IRP site, but from a UST.

There are no new environmental data.

Action Required/Recommendations/Info Provided:

Follow-up on requested items.

Signature: _____ Date: November 30, 1992

cc: Letty Arredondo, Diane Jackson

ATSDR Record of Activity

UID #: _ _ _ _ Date: 10/20/92 Time: 9:07 am X pm

Site Name: ABC ONE HOUR CLEANERS City: Jacksonville Cnty: Onslow State: NC

CERCLIS #: NCD024644494 Cost Recovery #: Region: IV

Site Status (1) X NPL Non-NPL RCRA Non-Site specific Federal
(2) Emergency Response Remedial Other

Activities

X Incoming Call Public Meeting Health Consult Site Visit Outgoing Call Other Meeting Health Referral
Info Provided
Conference Call Data Review Written Response Training Incoming Mail Other

Requestor: ()
Affiliation:
Phone: Address:
City: State: Zip Code:

Contacts and Affiliation

(27) George Radford (919)451-5872
Base Contact at Marine Corps Base Camp Lejeune

- 1-EPA 2-USCG 3-OTHER FED 4-STATE ENV 5-STATE HLT 6-COUNTY HLTH 7-CITY HLTH
8-HOSPITAL 9-LAW ENFORCE 10-FIRE DEPT 11-POISON CTR 12-PRIV CITZ 13-OTHER 14-UNKNOWN
15-DOD 16-DOE 17-NOAA 18-OTHR STATE 19-OTHR COUNTY 20-OTHR CITY 21-INTL
22-CITZ GROUP 23-ELECT. OFF 24-PRIV. CO 25-NEWS MEDIA 26-ARMY 27-NAVY 28-AIR FORCE
29-DEF LOG AGCY 30-NRC 31-ATSDR

Program Areas

X Health Assessment Health Studies Tox Info-profile Worker Hlth Petition Assessment Health
Surveillnc Tox Info-Nonprofil Admin
Emergency Response Disease Registry Subst-Spec Resch Other Health Consultation Exposr
Registry Health Education

Narrative Summary:

According to Mr. Radford, the RI and FS for ABC Cleaners is complete, and a public meeting is to be held November 14. The proposed remedial action is to pump and treat. The EPA RPM is Louis Suarez (?), (404)347-7791.

(Background: ATSDR wrote a Preliminary Public Health Assessment for ABC Cleaners in 8/24/90. The PCE contaminated ground water plume from ABC is believed to have extended into Marine Corps Base Camp Lejeune (MCB), a federal NPL site, and contaminated two drinking water wells in MCB's Tarawa Terrace housing complex. The two wells were taken off-line in 1985.)

Action Required/Recommendations/Info Provided:

Forward copy of this AROA to Remedial Programs Branch.

Signature: _____ Date: October 20, 1992

cc: Diane Jackson, Sharon Williams-Fleetwood

Enclosures: Yes () No (X); MIS entered: Yes () No (X)

Narrative (continued):

Action (continued):

Enclosures: Yes () No (X); MIS entered: Yes () No (X)

ATSDR Record of Activity

UID #: Date: November 30, 1992 Time: 1:39 pm

Site Name: Marine Corps Base Camp Lejeune City: Jacksonville Cnty: Onslow
State: NC

CERCLIS #: Cost Recovery #: 405E Region: 4

Site Status (1) X NPL Non-NPL RCRA Non-Site specific Federal
(2) Emergency Response Remedial Other

Activities

X Incoming Call Public Meeting Health Consult Site Visit Outgoing Call Other Meeting Health Referral
Info Provided
Conference Call Data Review Written Response Training Incoming Mail Other

Requestor: (31) Nancy Sonnenfeld
Affiliation: Division of Health Studies (DHS)
Phone: Address:
City: State: Zip Code:

Contacts and Affiliation

()
()

- 1-EPA 2-USCG 3-OTHER FED 4-STATE ENV 5-STATE HLT 6-COUNTY 7-CITY HLTH
8-HOSPITAL 9-LAW ENFORCE 10-FIRE DEPT 11-POISON CTR 12-PRIV CTZ 13-OTHER 14-UNKNOWN
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Program Areas

X Health Assessment Health Studies Tox Info-profile Worker Hlth Petition Assessment Health
Survellnc Tox Info-Nonprofile Admin
Emergency Response Disease Registry Subst-Spec Resch Other Health Consultation Exposr
Registry Health Education

Narrative Summary:

She finished reading the inital working draft. She wanted to know where people were located in reference to sites. She will send me a list and I will identify.

Told her we were trying to find out if there were any completed ground water pathways, and any levels of contamination in water leaving the water treatment plant were known.

She thinks Site 2, the Day Care/Pesticide shop, would be difficult to follow because of the time that has past. I told her Gail had a contact who says she can contact other parents who had children in the Day Care center at the time of concern. Nancy said she would check with Wendy.

I advised her to talk to Letty about the health side of the PHA.

Action Required/Recommendations/Info Provided:

Follow-up on requested items when received.

Signature: Date: November 30, 1992

cc: Letty Arredondo, Diane Jackson

ATSDR Record of Activity

UID #: Date: December 16, 1992 Time: 8:54 am

Site Name: Marine Corps Base Camp Lejeune City: Jacksonville Cnty: Onslow State: NC

CERCLIS #: Cost Recovery #: 405E Region: 4

Site Status (1) X NPL Non-NPL RCRA Non-Site specific Federal (2) Emergency Response Remedial Other

Activities

Incoming Call Public Meeting Health Consult Site Visit X Outgoing Call Other Meeting Health Referral Info Provided Conference Call Data Review Written Response Training Incoming Mail Other

Requestor: () Affiliation: Phone: Address: City: State: Zip Code:

Contacts and Affiliation

(27) Yvonne Walker, NEHC ()

- 1-EPA 2-USCG 3-OTHER FED 4-STATE ENV 5-STATE HLT 6-COUNTY 7-CITY HLTH 8-HOSPITAL 9-LAW ENFORCE 10-FIRE DEPT 11-POISON CTR 12-PRIV QIZ 13-OTHER 14-UNKNOWN 15-DOD 16-DCE 17-NOAA 18-OTHR STATE 19-OTHR COUNTY 20-OTHR CITY 21-INTL 22-QTZ GROUP 23-ELECT OFF 24-PRIV CO 25-NEWS MEDIA 26-ARMY 27-NAVY 28-AIR FORCE 29-DEF LOG AGCY 30-NRC 31-ATSDR

Program Areas

X Health Assessment Health Studies Tox Info-profile Worker Hlth Petition Assessment Health Surveillnc Tox Info-Nonprofile Admin Emergency Response Disease Registry Subst-Spec Resch Other Health Consultation Exposr Registry Health Education

Narrative Summary:

She talked to the industrial hygienist at Camp Lejeune. There never was any wipe sampling at the day care center, Site 2, that was a former pesticide shop. Supposedly, some soil sampling was done years ago, but no one can find the report.

Action Required/Recommendations/Info Provided:

None for now. Follow up during writing of health assessment.

Signature: Date: December 16, 1992

cc: Letty Arredondo, Diane Jackson

Enclosures: Yes () No (); MIS entered: Yes () No ()

ATSDR Record of Activity

UID #: _ _ _ _

Date: 5/19/92 Time: 9:30 am pm

Site Name: Marine Corps Base Camp Lejeune City: Jacksonville Cnty: Onslow
State: NC CERCLIS #: NCD024644494 Cost Recovery #: 405E Region: IV

Site Status: (1) NPL

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Contacts and Affiliation: (1) Michelle Glenn, EPA Reg. 4 RPM
(31) Carl Blair, ATSDR Reg. 4 Rep.

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3. Agents dissolve in water and are less toxic. Agents are designed to dissipate in 48 hours.
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I asked Carl Blair to check on the status of the ABC Cleaners site.

Action Required/Recommendation/Information Provided:

1. Call NAVFAC and get additional documents that may have been generated. Also, check on the lead situation.
2. Call NAVFAC or Camp Lejeune and check on status of the fence.

Signature: _____ Date: May 20, 1993

cc: Diane Jackson, Letty Arredondo, Carl Blair, John Abraham

Enclosures: Yes () No (X); MIS entered: Yes () No (X)

I HAVE READ AND UNDERSTOOD THIS SAFETY CHECK-OFF LIST (CONTINUE ON BACK OF PAGE IF NECESSARY):

NAME (PRINT)	SIGNATURE	REPRESENTING	DATE
Leticia Arredondo, MD	<i>Leticia Arredondo, MD</i>	DPY/FPB OK	10/16/92
Stephen S. Arzame	<i>Stephen S. Arzame</i>	ATSDA OK	10/22/92

APPENDIX A

II. AFTER FIELD ACTIVITY

1. Protective Level(s) used: (A)____ (B)____ (C)____ (D) X
 If Level B/C, skin protection: Tyvek®____ Tyvek®/Saran®____
 Other_____
 If Level C, Identify canister_____
 If Level D, Justify: WRITE COMMENTS ON BACK OF PAGE. *Same as item 10.*
2. List possible substance exposure (if different from I. 7):
 (A)____ (B)____ (C)____
 (D)_____
3. Decontamination/disposal:

	Cleaned	Disposed	No action
Clothing:	____	____	____
Respirator:	____	____	____
Monitoring equipment:	____	____	____
4. Approximate time: In exclusion zone _____ hr/day for _____ days
 on site 8 hr/day for 2 days
5. Unique site situations encountered (describe) _____

None.

PART II: Prepared by Steph Aoyan
Date 11/3/92

Approved by HSFASC Martha Doe Kent
Date 11/9/92

- cc: Employee
 Supervisor
 HSFASC
 Site file

DR Record of Activity

UID #: CBB3 Date: 05/13/92 Time: 7:00 amX pm

Site Name: USMC CAMP LEJUENE #21 City: JACKSONVILLE Cnty: ONslow State: NC

CERCLIS #: NC6170022580 Cost Recovery #: 405E Region: 4

Site Status (1) 1 NPL _ Non-NPL _ RCRA _ Non-Site specific 1 Federal Fac.
 (2) _ Emergency Response 2 Remedial _ Removal _ Other

Activities

- Incoming Call
- Outgoing Call
- Conference Call
- Incoming Mail
- Public Meeting*
- Other Meeting
- Data Review
- Health Consult*
- Health Referral
- Written Response
- Other
- 1 Site Visit*
- Info Provided
- Training

Requestor and Affiliation: (31) GAIL GODFREY
 Phone: _____ Address: _____
 City: _____ State: _____ Zip Code: _____

Contacts and Affiliation

15 GEORGE RAFORD, THOMAS MORRIS 27 YVONNE WALKER, SHEILA MUSCHET
31 LETICIA ARREDONDO 15 DEBRA PICKETT

1-EPA	2-USCG	3-OTHER FED	4-STATE ENV	5-STATE HLT
6-COUNTY HLTH	7-CITY HLTH	8-HOSPITAL	9-LAW ENFORCE	10-FIRE DEPT
11-POISON CTR	12-PRIV CITZ	13-OTHER	14-UNKNOWN	15-DOD
16-DOE	17-NOAA	18-OTHR STATE	19-OTHR COUNTY	20-OTHR CITY
21-INTL	22-CITZ GROUP	23-ELECT. OFF	24-PRIV. CO	25-NEWS MEDIA
26-ARMY	27-NAVY	28-AIR FORCE	29-DEF LOG AGCY	30-NRC
31-ATSDR				

Program Areas

- Health Assessment
- Petition Assessment
- Emergency Response
- Health Consultation
- Health Studies
- Health Survellnc
- Disease Registry
- Exposr Registry
- Tox Info-profile
- Tox Info-Nonprofil
- Subst-Spec Resch
- Health Education
- Worker Hlth
- Admin
- Other

Narrative Summary: A request from the Federal Facilities Branch was made for the Region IV staff to accompany Gail Godfrey on a site visit and Preliminary Health Assessment presentation to the EMD manager at Camp Lejuene. Several meetings were held to discuss and document any comments that the Naval and Marine Environmental staff had regarding the language and factual data included in the report.

We also visited all 22 sites on the base to observe and document any new developments on them. Some of the sites had remediation done since the last visit by ATSDR staff. Updates will be added to the health assessment as well as suggestions submitted by DOD staff.

Gail Godfrey will return next week to collect all Draft reports and meet with DOD staff to listen to any final concerns before this draft goes to red cover stage. She will update me via phone or async.

Action Required/Recommendations/Info Provided:

Signature: _____



Date: 05-14-92

Concurrence: _____

Date: _____

cc: files; Pietrosewicz/Safay OAA/ORO