

N42237.AR.000050
NSB KINGS BAY
5090.3a

PUBLIC INFORMATION PRESENTATION TO CAMDEN COUNTY AND ST MARYS CITY
OFFICIALS NSB KINGS BAY GA
8/28/1992
NSB KINGS BAY

PUBLIC INFORMATION PRESENTATION
TO CAMDEN COUNTY
AND ST MARYS CITY OFFICIALS

BY
CAPTAIN C. E. ELLIS, USN
COMMANDING OFFICER, SUBASE KINGS BAY

RE: OLD CAMDEN COUNTY LANDFILL SITE CONTAMINATION

I. Background Kings Bay SUBASE

The former Camden County Landfill was first investigated under the Initial Assessment Study (IAS), in 1985. The IAS was conducted by a team of scientist and engineers who reviewed records, performed on-site surveys, and interviewed activity personnel. Information reported, concerning the old Camden County Landfill, includes the following information.

- o Operated 1974 to 1981
- o 35 acre site
- o Trench and fill operation into the groundwater table
- o Burning of wastes on site was discontinued in 1975
- o 2' final cover
- o Types of Waste Disposed General household and office wastes, scrap paper, wood, and sewage treatment plant sludge and grit.
- o Estimated Waste Quantity 500,000 Cubic Yards
- o

<u>Waste Sources</u>	<u>Estimated Contribution</u>
Camden County	60%
MOTKI/SUBASE	20 - 30%
Blue Star Shipping	5 - 10%
Gilman Paper Co.	5 - 10%

The IAS concluded, at that time, the Old Camden County Landfill did not pose a potential threat to human health or the environment. No further action was recommended.

Further investigation into the Old Camden County Landfill and two other sites on the SUBASE is required as part of the Georgia Department of Natural Resources permit for the Kings Bay Hazardous Waste Storage Facility Permit. The present site investigation is a result of carrying out the permit requirements.

OLD CAMDEN COUNTY LANDFILL SITE CONTAMINATION

II. Present Site Investigation Effort

Southern Division, Naval Facilities Engineering Command contracted with ABB Environmental Services Inc. to perform the site investigations. ABB Environmental Services is a regionally recognized professional environmental engineering firm, working under a Comprehensive Long-Term Environmental Action Navy contract. The contract for the SUBASE combines the requirements of the Resource Conservation and Recovery Act (RCRA) and the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). Reports issued under this contract are titled RCRA Facility Investigation/Site Investigation (RFI/SI) to indicate compliance with both the RCRA and CERCLA programs.

The contract work plan includes the following effort:

- o Investigation of SUBASE Facility Background including regional environmental descriptions
- o Review of IAS information
- o Field investigations including geophysical survey, soil borings, aquifer characterization, elevation and location survey, and monitoring well installation
- o Sampling of soil and groundwater
- o Chemical analysis of samples
- o Data validation, evaluation, and interpretation

Copies of the contract work plan were sent to Georgia Department of Natural Resources. ABB Environmental Services will provide five technical memorandums after each of the first five of field investigation/ sampling events and a final comprehensive report after the sixth field investigation/sampling event.

Technical Memoranda number 1 and number 2, covering the first two field investigation/sampling events have been completed. The third sampling event was just completed 13 July 1992. A summary of the first two field investigation/sampling events for the Old Camden County Landfill is provided in Appendix A.

A review meeting concerning the first two sampling events was held on 24 June 1992. Georgia Department of Natural Resources representatives were invited to this session, but were unable to attend. A review of the field work and analytical results were presented by ABB Environmental. A reduction in analytical parameters was recommended for those which were non detectible. The concentrations of vinyl chloride found in the ground water at the old Camden County Landfill, site 11, were addressed. It was decided that a contract change order to define the extent of the plume of contamination was needed. The contractor was asked to provide a proposed plan of action to accomplish the task.

OLD CAMDEN COUNTY LANDFILL SITE CONTAMINATION

III. Old Camden County Landfill-Site 11 Follow-Up

A notice to proceed was issued to ABB environmental 23 July 1992 to begin the study to determine the extent of the vinyl chloride plume in the groundwater at the old camden county landfill. The scope of work requires them to take groundwater samples at additional locations using a cone penetrometer. A portable laboratory will be brought in to assist in the field work. This special field investigation will start 4 August 1992. The initial sampling will be accomplished on Subase property boundary areas inside and outside the fence adjacent to Spur 40 (East side). The Navy is prepared to continue sampling on the west side of Spur 40 if preliminary results warrant this action. A separate Technical Memorandum concerning the recommendations and results from this field investigation will be issued in September.

IV. SUBASE-County-City Joint Involvement

Groundwater, from the Old Camden County Landfill, may have traveled to Spur 40 west of the landfill and beyond. Shallow wells serving the adjacent community may require closure to prevent human exposure. The ongoing sampling and the field work to occur in August will give us factual data on the size of the contaminated groundwater plume, level of contamination, and direction of flow. The SUBASE needs to achieve full and open community involvement in this environmental issue in the event there proves to be a health risk. We will be taking the first step towards open community involvement by informing county and city officials of this issue. Future public meetings will provide for full community participation, if necessary.

Appendix A

SUMMARY

Technical Memoranda Number 1 and Number 2

Old Camden County Landfill

Analytical results for the first groundwater sampling event (February 1992) at Site 11 indicated that a sample from monitoring well KBA-11-2 contained vinyl chloride at a concentration of 18 ug/l. This monitoring well is downgradient of the disposal area. In May 1992 the second groundwater sampling event was conducted. Two replicate groundwater samples were collected from monitoring well KBA-11-2. Concentrations of vinyl chloride in these samples were considerably higher than before, being 64 ug/l and 100 ug/l for the replicate sample. These concentrations of vinyl chloride are well above the USEPA Federal Drinking Water Standard MCL of 2 ug/l (PPB).

Several other VOCs have been detected in groundwater samples from monitoring well KBA-11-2, including parent compounds that decompose anaerobically to form vinyl chloride. These parent compounds include tetrachloroethene, trichloroethene, and 1,2 dichloroethene. The concentration of the parent compounds range from an estimated 1 ug/l to 16 ug/l.

Monitoring well KBA-11-2 is located on the western side of the landfill. Two other monitoring wells located on the western side of the landfill, north and south of monitoring well KBA-11-2, have not produced samples with detectable concentrations of vinyl chloride. The location of monitoring well KBA-11-2 is approximately 80 feet east of the SUBASE property line. Approximately 350 feet to 400 feet to the west of the landfill there is a housing development (private property). As shown on the groundwater potentiometric surface map attached the groundwater flow is to the west, towards the SUBASE line and potentially towards the housing development.

28 AUGUST 1992
 N3B KINGS BAY

<u>NAME</u>	<u>AFFILIATION</u>	<u>TELEPHONE</u>
FRANK CATER	ABB-ENVIRONMENTAL	615 531 1922
CDR MIKE PATTERSON	PUBLIC WORKS DEPT. KINGS BAY	(912) 673-4604
Michael KEIRN	ABB-ENVIRONMENTAL TALLAHASSEE	904-656-1292 A/V 940-5
Joseph Wollmeyer	HELWINGSLANT Code 20, HAS JAX	904 772-5
LAURA HARRIS	ABB Environmental Services	615-531-19
Randy McCall	Camden Co. Health Dept.	(912) 725-6012
CAPT GEORGE GIBSON	MEDICAL CLINIC	673-4223
CDR ERNEST HUNTER	PUBLIC WORKS DEPT, K. B	(912) 673-4604
LT Mark Solberg	NMC	673-4272.
JOAN S. PATRICKSON	COUNTY ADMINISTRATOR	576-5601
Daniel L. Sullivan	Chairman, Co. Commission	728-5575
Lennie Brant	Camden Co Solid Waste	724-4299
Charles L. Clark	Co. Comm.	576-5700
John Morris	" "	882 5522
Walter Kullback	Lawyer, Camden City Co	882-5000
CAPT C BELLIS	CO SUBASE	673-4700
BOB STELLER	SUBASE PAC	673-4700
CDR TRISH McMILLAN	" "	" "
MIKE MAHANEM	CITY OF ST. MARKS	882-3645
JERRY BRANDON	" " " "	" "
ED LOHR	SODIV	803 743 0355
Jim More	PWD	912 673 4759

NOTE THAT COUNTY HEALTH COMM will mtg wed (reg mtg)
 BARRY