

N62604.AR.000162
NCBC GULFPORT
5090.3a

PRESURVEY FOR DIOXIN EVALUATION NCBC GULFPORT MS
8/1/1984
U S AIR FORCE

Presurvey for Dioxin Evaluation
Naval Construction Battalion Center (NCBC)
Gulfport MS

01 AUG 1984

FILE IN
SAFE
6280/E

I. DESCRIPTION OF TASK:

The purpose of this presurvey is to define the workplan and approach for monitoring and evaluation of dioxin activity in the local environment and the on-site dioxin filtration system at NCBC, Gulfport MS.

A. General

Before conducting this presurvey, the contractor project leader shall review the background material (supplied under separate cover) for the purpose of obtaining a complete understanding of the history of this project. During the presurvey meeting the contractor shall visit all the sites identified herein and during the presurvey meeting.

B. Specific needs of the survey to be conducted subsequent to this presurvey:

1. Determine if the background information provided (preliminary monitoring data) is sufficient to determine the following:

a. If dioxin contaminated sediment is currently leaving the storage site.

b. The potential for migration of the contaminated soil in the various environmental media that may result from renovation of the drainage system from the storage site.

c. If the present monitoring program, with respect to location of monitoring sites, and type of samples collected (i.e., water, sediment and biologicals) is adequate to maintain long-term environmental surveillance.

d. If the existing filtration unit to remove dioxin from the runoff of the storage site is adequate, based on the requirement that the concentration of dioxin in the effluent is zero.

2. If the data are not sufficient to answer the questions outlined in I.B.1 above, identify the collection of data required to answer those questions. Specifically, identify the following concerning the data:

a. Type of sample (i.e., water, soil, biological or other)

b. Location of sampling points (x, y and z directions)

c. Frequency of sampling

d. Minimum number of samples required to answer all the questions in I.B.1 above.

3. If the background data provided in I.A above are adequate, recommend alternative actions for the following:

a. Improving the collection efficiency of the existing filtration system such that the dioxin concentration at the effluent of the filter is below detection limits.

b. Methods of mitigation of migration of dioxin contaminated soil from the storage site.

c. Methods to contain the dioxin contaminated sediment from the drainage ditch during renovation.

C. Reporting

Prepare a presurvey report within the period specified in Item VI below. The report shall include the contractor's protocol for the following:

1. Determination of the adequacy of the data to answer the questions identified in Section I.B.1 above.

2. Recommendations for either the future systematic collection of samples to provide adequate data to answer the questions in Section I.B.1 above or alternatives for actions specified in Section I.B.3 above.

3. The contractors cost estimates for recommendations given to fulfill Sections I.C.2 and I.C.3 above.

II. SITE LOCATION AND DATES:

NCBC, Gulfport MS
Building and Time to be Established

III. BASE SUPPORT: None

IV. GOVERNMENT FURNISHED PROPERTY: None

V. GOVERNMENT TECHNICAL POINTS OF CONTACT:

1. LtCol Charles R. Jones
USAF OEHL/ECD
Brooks AFB TX 78235
AV 240-3491
(512) 536-3491

2. 1Lt David P. Gibson, Jr.
USAF OEHL/ECQ
Brooks AFB TX 78235
AV 240-3305
(512) 536-3305

3. Lt Col R.C. Wooten
USAF OEHL/TS
Brooks AFB TX 78235
1-800-512-821-4528

VI. In addition to sequence numbers 1, 5 and 11 listed in Attachment 1 to the contract, which are applicable to all orders, the sequence number listed below is applicable to this order. Also shown are data applicable to this order.

<u>Sequence No.</u>	<u>Block 10</u>	<u>Block 11</u>	<u>Block 12</u>	<u>Block 13</u>	<u>Block 14</u>
2	O/TIME	84NOV01	84NOV15		15

POINT PAPER

1. SUBJECT - Dioxin Contamination at NCBC, Gulfport, MS

2. DISCUSSION

- Monitoring responsibilities of the USAF OEHL as agreed to with AFESC
 - Ground and surface water, sediments and biologicals
 - Monitoring of original 9 sites in drainage system
 - Determine if storm-water is still carrying contaminated sediment from the original storage site.
 - Establish upstream and downstream sampling points on Turkey Creek and upstream of Canal 1 before it enters NCBC
- Urgent problems
 - Renovation of on-base drainage system-Temporarily suspended due to probable dioxin contamination
 - Probable renovation of off-base drainage system
 - Prevent contaminated sediment from continuing to leave NCBC, if appropriate
- Scope of the USAF OEHL study
 - Determine experimentally or actually if contaminated sediment is leaving the storage site. If so, recommend control measures
 - Determine if original 9 sites are adequate to maintain environmental surveillance. If not, recommend changes
 - Determine whether or not it is necessary to sample water, sediment and biologicals at each site
 - Determine environmental impact of on-base drainage renovation and make recommendations to NCBC CO.
 - Ditto for off-base renovation
 - Later, after receiving INEL's study, determine ground water monitoring requirements

3. RECOMMENDATIONS (Atch 1)

- Use a combination of the USAF OEHL in-house and contract services
- Start after receipt and review of archived sample results. (Line 6, Atch 1)
- The USAF OEHL in-house personnel make a trip to survey both drainage canal problems and make recommendations (Lines 10 & 12, Atch 1). NCBC CO to be advised verbally by mid-Oct 84
- The USAF OEHL should use AFESC's contract analytical lab for sample analysis to enable better comparisons
- At the same time that we send a team to NCBC, the USAF OEHL will start presurvey procedures for a contractor to do the entire scope as defined above (Lines 7-9 Atch 1). In this way the USAF OEHL will pay for a plan of attack from the contractor that we can either accept and do by contract or accept and do in-house or in any combination.

1 Atch
Program Schedule

