

# TRANSMITTAL

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**To:** Lynn Hornecker  
**Date:** August 28, 2003

**From:** David Kelly

**Subject:** Waste Characterization  
Non-Time Critical Removal Action at IRP Site 11

The Draft Project Plans, Non-Time Critical Removal Action, Installation Restoration Program Site 11, NASA Crows Landing Flight Facility (Shaw 2003) provides detailed information on planned activities associated with the excavation and disposal of waste material at IRP Site 11. As indicated in the planning documents, samples of the waste and soil at five of the six Areas of Concern (AOC) will be collected prior to the removal activities to determine waste disposal requirements. Waste material from AOC 6 will be characterized after excavation, when all potential ordnance and explosive (OE) material has been removed.

Sampling requirements defined in the planning documents indicate that one each four-point composite sample is required for every 500 cubic yard of waste material. The proposed sample locations are included on the attached sketch. Four samples will be collected at each location to be composited into one sample at the laboratory prior to analysis. The estimated volume of each AOC and the corresponding number of samples for each area is presented below:

1. AOC 1 is estimated to contain 759 cubic yards of soil. Work in this area will be performed in personal protection Level D. Four soil samples will be collected from each of two sample locations within AOC 1 to a depth of up to 2 feet below ground surface (bgs).
2. AOC 2 is estimated to contain 1,397 cubic yards of soil. Work in this area will be performed in personal protection Level D. Four soil samples will be collected from discrete depths at each of three sample locations within AOC 2 to the maximum depth of the planned excavation at each location.
3. AOC 3 is estimated to contain 3,212 cubic yards of soil. Work in this area will be performed in personal protection Level C because of the potential of encountering asbestos containing material. Four soil samples will be collected from discrete depths at each of seven sample locations within AOC 3 to a maximum depth of the planned excavation at each location.

4. AOC 4 is estimated to contain 154 cubic yards of soil. Work in this area will be performed in personal protection Level C because of the potential of encountering asbestos containing material. Four soil samples will be collected from discrete depths at one location within AOC 4 to a maximum depth of up to 5 feet bgs.
5. AOC 5 is estimated to contain 946 cubic yards of soil. Work in this area will be performed in personal protection Level D. Four soil samples will be collected from each of two sample locations within AOC 5 to a depth of up to 2 feet bgs.

Area of Concern	Sample Location	Depth (ft bgs)	Comment
1	11-SPA1-01(2)	0.5 - 2	
	11-SPA1-02(2)	0.5 - 2	
2	11-SPA2-01(14)	0.5 - 14	Discrete samples from approx. 1, 5, 9, and 13 ft bgs
	11-SPA2-02(10)	0.5 - 10	Discrete samples from approx. 1, 3.5, 6.5, and 9 ft bgs
	11-SPA2-03(19)	0.5 - 19	Discrete samples from approx. 1, 6.5, 12.5, and 18 ft bgs
3  *Analyze for dioxins and furan	11-SPA3-01(10)	0.5 - 10	Discrete samples from approx. 1, 5, 9, and 13 ft bgs
	11-SPA3-02(10)	0.5 - 10	Discrete samples from approx. 1, 5, 9, and 13 ft bgs
	11-SPA3-03(10)	0.5 - 10	Discrete samples from approx. 1, 5, 9, and 13 ft bgs
	11-SPA3-04(15)	0.5 - 15	Discrete samples from approx. 1, 5.5, 9.5, and 14 ft bgs
	11-SPA3-05(15)	0.5 - 15	Discrete samples from approx. 1, 5.5, 9.5, and 14 ft bgs
	11-SPA3-06(5)	0.5 - 5	Discrete samples from approx. 1, 2, 3, and 4 ft bgs
	11-SPA3-07(5)	0.5 - 5	Discrete samples from approx. 1, 2, 3, and 4 ft bgs
4  *Analyze for dioxins and furan	11-SPA4-01(5)	0.5 - 5	Discrete samples from approx. 1, 2, 3, and 4 ft bgs
5	11-SPA5-01(2)	0.5 - 2	
	11-SPA5-02(2)	0.5 - 2	

The samples will be collected from an excavator bucket as an exploratory trench is excavated at each of the sample location. Because of the potential for OE material at IRP Site 11, all sampling activities will be supervised by at least two unexploded ordnance technicians in accordance with the *Unexploded Ordnance Avoidance Work Plan, NASA Crows Landing Flight Facility, Revision 3* (IT 2002). All trenching and excavation safety procedures and regulations will be followed. Personnel will not access any open excavation deeper than 4 feet.

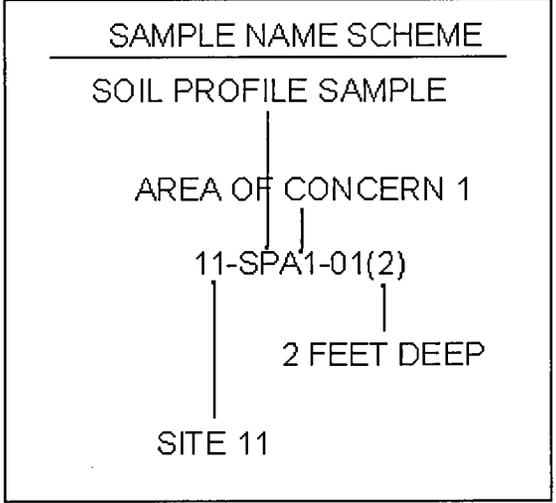
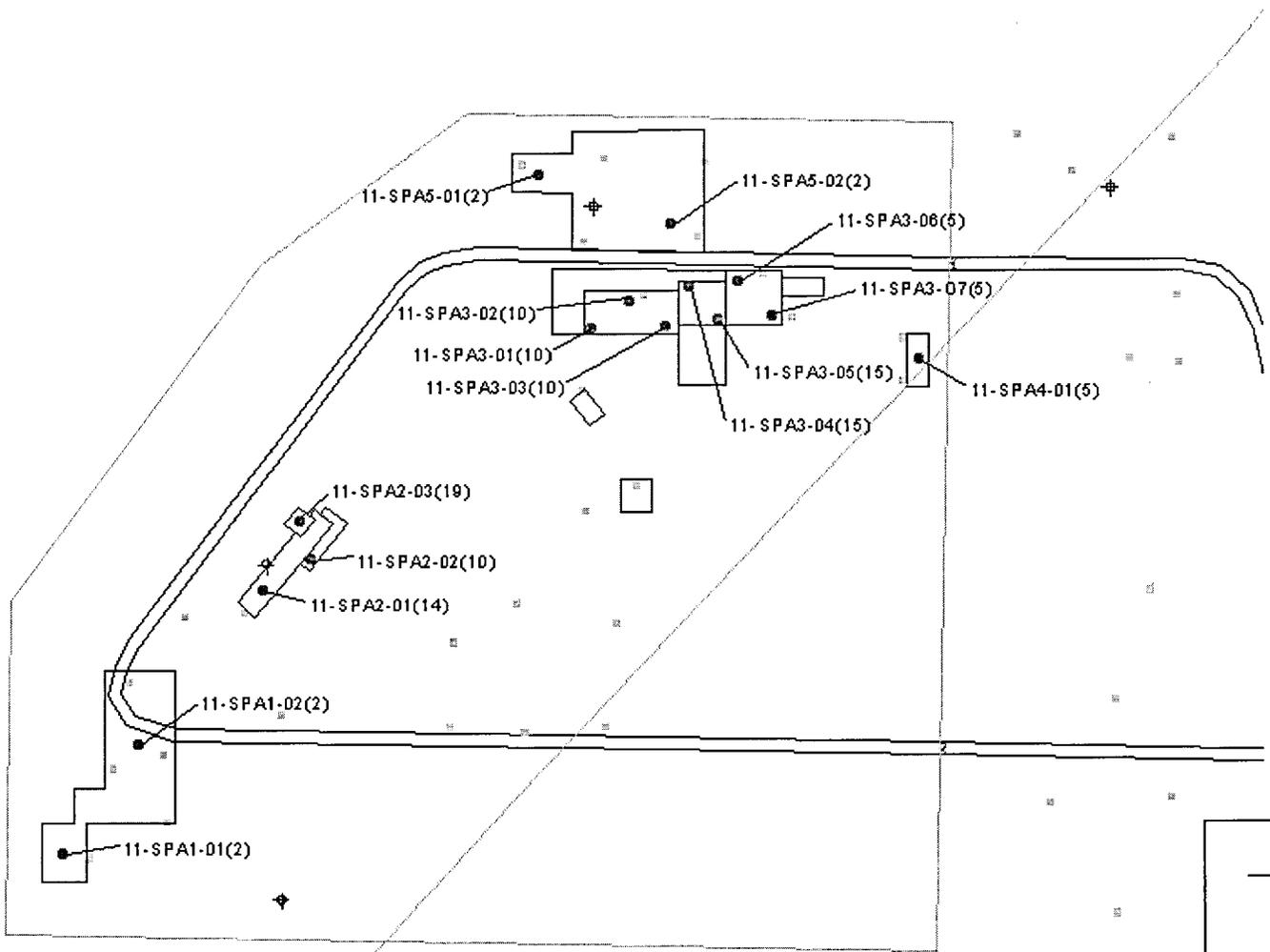
The sampling and analytical work will be conducted in accordance with the *Final Project Plans, Verification Activities at Various Sites, NASA Crows Landing Flight Facility* (IT, 2003). Four discrete samples will be collected from relatively evenly distributed depths at each location based on the final depth of the test pit. The discrete samples from each location will be composited in the lab prior to analysis. The soil sample from each location to be used for analysis of volatile compounds will be collected in the field from one of the two middle discrete samples. The samples will be analyzed at an off-site laboratory by the following methods:

- Total petroleum hydrocarbons (TPH) as gasoline by EPA Methods 5035/8015B
- TPH as diesel and motor oil by EPA Method 8015B
- Volatile organic compounds (VOCs) by EPA Methods 5035/8260B

- California Code of Regulations (CCR) Title 22 Metals by EPA Methods 6010B/7000
- PCBs by EPA Method 8082
- Semivolatile organic compounds (SVOCs) by EPA Method 8270C
- dibenzodioxins (dioxins) and polychlorinated dibenzofurans (furans) by EPA Method 8290 (AOC 3 and 4 only)

Sampling activities are scheduled to commence on September 2, 2003.

cc: B Hulet  
R Condit  
T Barry  
D Tillery  
E Ramirez  
Project Files



## TRANSMITTAL

Date: 20 August 2003

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From: Lynn Marie Hornecker  
CROWS LANDING

To: Diane Silva  
Code ~~01LS.DS~~ 05G.DS

**Subj: CERCLA Administrative Record Materials**  
Former Naval Auxiliary Landing Field, Crows Landing

*Installation:* Former Naval Auxiliary Landing Field, Crows Landing

*UIC Number:* N60211

*Document Title (or subject):*

*Author:* Lynn Marie Hornecker

*Recipient:* Francesca D'Onofrio

*Record Date:* 29 August 2003

*Approximate Number of Pages:* 7

*EPA Category:* 01.1

*Sites:* IRP Site 11

*Key Words:* waste characterization

*Contract:* ~~N/A~~ N62474-98-D-2076

*CTO Number:* ~~N/A~~ CTO 86

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