APPENDIX B

Analytical Report Forms

005197

CHAIN OF CUSTODY RECORD

US ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
Environmental Engineering Branch
SPK-ED-E
1325 J Street
Sacramento, California
95814-2922

Project Name: BUILDING 41
Project Location: HAMILTON AAF,
Project Coordinator: CARLTON FONG
Phone: 916-557-7753 FAX:
Sampler: BRUCE VAN ETTEN / T. CRUMMETT Phone: 916-557-6942

Laboratory: APCL
Address: 13760 MAGNOLIA
CHINO, CA 91710
Contact: ERIC WENDLAND
Phone: 909-590-1828

ANALYSIS REQUESTED →

SAMPLE IDENTIFICATION Field	Laboratory	GRAB	COMP	DATE 2003	TIME	SW-8081 DDT, DDD, DDE				6260				MS/MSD	TURN AROUND TIME (DAYS)	MATRIX CODE	NUMBER OF PLASTIC	GLASS	VOA	SLEEVE	ENCORE	PRESERVATIVE CODE
HAAF-HBPDL-606-1.5		✓		11/19	1600	✓										S		1				
HAAF-HBPDL-607-1.5		✓		11/19	1618	✓										S		1				
HAAF-HBPDL-608-1.5		✓		11/19	1630	✓										S		1				

COMMENTS/SPECIAL INSTRUCTIONS:

CHECKED BY: TC

PRESERVATIVE CODES:
C = HCl N = HNO_3 S = H_2SO_4

SAMPLE DISPOSAL:
☐ Hold ☐ Dispose ☐ Return

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
Bruce Van Etten	11/20/03 1200	[illegible]	11/21/03 0930

MATRIX CODES:
W = Water SI = Sludge SP = Solid Product
S = Soil A = Air LP = Liquid Product
Sd = Sediment

SHIPPING:
☒ Fed Ex ☐ Courier ☐ Hand Deliver
Airbill Number: 8386 0625 3639

CESPK FORM 111
13 Feb 02

DISTRIBUTION: WHITE and YELLOW - send to testing laboratory; PINK - retained by originator

Applied P & Ch Laboratory
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Receiving Checklist

APCL ServiceID: 6260 **Client Name/Project:** Hamilton

1. Sample Arrival

Date/Time Received 11/21/03 0930 Date/Time Opened 11/21/03 0930 By (name): ERIC

Custody Transfer: ☐ Client ☐ Golden State ☐ UPS ☐ US Mail ☒ FedEx ☐ APCL Empl: _____

2. Chain-of-Custody (CoC)

☒ With Samples? ☐ Faxed? ☐ Client has Copy? ☒ Signed, dated? By: _____
☒ Project ID? ☒ Analyses Clear? ☐ Hold Samples? #on Hold _____ # Received _____
☒ CoC/Docs Zip-Locked under lid? ☐ Compos.#: _ ☒ #Samples OK? _____
☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs): _____

3. Shipping Container/Cooler

☒ Cooler Used? # of 1 Cooled by: ☒ Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Temp °C 4.7

(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).

Cooler Custody Seal? ☐ Absent ☒ Intact ☐ Tampered?

4. Sample Preservation

☐ **pH <2** ☐ pH >12

If Not, pH = _____ Preserved by: ☐ Client ☐ APCL ☐ Third Party _____

5. Holding-time Requirements

☐ pH 24hr ☐ BACT 6/24hr ☐ Cr^{VI} 24hr ☐ NO_3^- 48hr ☐ BOD 48hr
☐ Cl_2 ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP
☐ HT Expired? ☐ Client notified?

6. Sample Container Condition

☒ Intact? ☐ Broken? ☐ Documented? Number: _____

Type: ☐ plastic ☒ glass ☐ Tube: brass/SS ☐ Tedlar Bag
☒ Quantity OK? ☐ Leaking? ☐ Anomaly?
☒ Caps tight? ☐ Air Bubbles? ☐ Anomaly?

Labels: ☒ Unique ID? ☐ Date/Time ☐ Preserved?

7. Turn Around Time

☒ RUSH TAT: 5 ☐ Std (7-10 days) ☐ Not Marked

8. Sample Matrix

☐ Drinking H_2O ☐ Other Liq ☒ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: _____
☐ Ground H_2O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. Pre-Login Check List Completed & OK?

☒ ALL OK? (if not, attach docs) ☐ Client Contact? (Name:_____)Date/Time:_____

Received/Checked by: _____ Printed: 21 Nov 2003 7:29 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

DocumentFile: [neal.texfiles]smprcl.tex.

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
U.S. Army Corps of Engineers
Attention: Peck Ha
1325 J Street
Sacramento CA 95814-2922
Tel: (916)557-7646 Fax: (916)557-5307

Service ID #: 801-036260
Collected by: BV/TC
Collected on: 11/19/03

Received: 11/21/03
Extracted: 11/24/03
Tested: 11/21-25/03
Reported: 12/01/03

Sample Description: Soil from Hamilton AAF
Project Description: Building 41

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result HAAF-HBPDL-606-1.5 03-06260-1	HAAF-HBPDL-607-1.5 03-06260-2	HAAF-HBPDL-608-1.5 03-06260-3
MOISTURE, PERCENT	D2216	%Moisture	0.5	37.0	37.5	37.3
ORGANOCHLORINE PESTICIDES						
Dilution Factor				1	1	1
4,4'-DDD	SW8081A	μg/kg	0.7	0.8J	2.6	2.0
4,4'-DDE	SW8081A	μg/kg	0.7	0.7J	2.9	1.7
4,4'-DDT	SW8081A	μg/kg	0.7	1.1	4.8	3.7
TOTAL DDTS	SW8081A	μg/kg	0.7	2.6	10.3	7.4

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
† All results are reported on dry basis for soil samples.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

EMAX Laboratories, Inc.

SDG Login Review Sheet

Due Date: 2/7/04

Date: 1/23/04

Client Code: US_0401_

Client: USACE

Project: HAAF, Misc.S.I.

EMAX PM: Richard

SDG: 04A097

OK
RMB
1/23/04

Send Report To: Attn: John Yaremchuk

Company: USACE

Address: 1325 J Street
Sacramento CA 95814
NA

Lwks ID	Control #	Sample ID	Matrix	Coll Date	Time	Date Rcvd	Lwks Method	Analysis
EM86315	A097-01	HAAF-B35-760-V	SOIL	1/13/04	10:21	1/17/04	PESTS	Pesticides Organochlorine
EM86316	A097-02	HAAF-B35-761-V	SOIL	1/13/04	10:22	1/17/04	PESTS	Pesticides Organochlorine
EM86317	A097-03	HAAF-B35-762-V	SOIL	1/13/04	9:58	1/17/04	PESTS	Pesticides Organochlorine
EM86318	A097-04	HAAF-B41PD-680	SOIL	1/13/04	9:05	1/17/04	PESTS	Pesticides Organochlorine
EM86319	A097-05	HAAF-B41PD-681-8ft	SOIL	1/13/04	9:20	1/17/04	PESTS	Pesticides Organochlorine
EM86320	A097-06	HAAF-B41PD-682-8ft	SOIL	1/13/04	9:10	1/17/04	PESTS	Pesticides Organochlorine
EM86321	A097-07	HAAF-B41PD-683-8ft	SOIL	1/13/04	9:11	1/17/04	PESTS	Pesticides Organochlorine
EM86322	A097-08	HAAF-B41PD-684-8.5ft	SOIL	1/13/04	9:24	1/17/04	PESTS	Pesticides Organochlorine
EM86323	A097-09	HAAF-FITB-729	SOIL	1/15/04	9:10	1/17/04	MTLS	Metals by ICP
EM86324	A097-10	HAAF-FITB-730	SOIL	1/15/04	9:14	1/17/04	MTLS	Metals by ICP
EM86325	A097-11	HAAF-SR-766	SOIL	1/13/04	16:57	1/17/04	MTLS	Metals by ICP
	A097-11	HAAF-SR-766	SOIL	1/13/04	16:57	1/17/04	SVSIMS	Semivolatile Organics SIM
EM86326	A097-12	HAAF-SR-768	SOIL	1/13/04	15:05	1/17/04	MTLS	Metals by ICP
	A097-12	HAAF-SR-768	SOIL	1/13/04	15:05	1/17/04	SVSIMS	Semivolatile Organics SIM
EM86327	A097-13	HAAF-SR-769	SOIL	1/13/04	15:11	1/17/04	MTLS	Metals by ICP
	A097-13	HAAF-SR-769	SOIL	1/13/04	15:11	1/17/04	SVSIMS	Semivolatile Organics SIM
EM86328	A097-14	HAAF-SR-770	SOIL	1/13/04	15:29	1/17/04	MTLS	Metals by ICP
	A097-14	HAAF-SR-770	SOIL	1/13/04	15:29	1/17/04	SVSIMS	Semivolatile Organics SIM
EM86329	A097-15	HAAF-SRW-757-V	SOIL	1/14/04	17:47	1/17/04	PESTS	Pesticides Organochlorine
EM86330	A097-16	HAAF-SRW-758-V	SOIL	1/14/04	17:26	1/17/04	PESTS	Pesticides Organochlorine
EM86331	A097-17	HAAF-SRW-759-V	SOIL	1/14/04	17:10	1/17/04	PESTS	Pesticides Organochlorine
EM86332	A097-18	HAAF-TR-747	SOIL	1/15/04	11:03	1/17/04	MTLS	Metals by ICP
EM86333	A097-19	HAAF-TR-748	SOIL	1/15/04	11:11	1/17/04	MTLS	Metals by ICP
EM86334	A097-20	HAAF-TR-749	SOIL	1/15/04	11:22	1/17/04	MTLS	Metals by ICP
EM86335	A097-21	HAAF-TR-750	SOIL	1/15/04	11:28	1/17/04	MTLS	Metals by ICP
EM86336	A097-22	HAAF-TR-751	SOIL	1/15/04	11:34	1/17/04	MTLS	Metals by ICP
EM86337	A097-23	HAAF-TR-D-505	SOIL	1/15/04	11:11	1/17/04	MTLS	Metals by ICP
EM86338	A097-24	HAAF-UPDD-763-V	SOIL	1/14/04	16:22	1/17/04	PESTS	Pesticides Organochlorine
EM86339	A097-25	HAAF-UPDD-764-V	SOIL	1/14/04	14:35	1/17/04	PESTS	Pesticides Organochlorine
EM86340	A097-26	HAAF-UPDD-765-V	SOIL	1/14/04	15:23	1/17/04	PESTS	Pesticides Organochlorine
EM86341	A097-27	HAAF-UPDD-D-506-V	SOIL	1/14/04	0:00	1/17/04	PESTS	Pesticides Organochlorine
EM86342	A097-28	HAAF-IDW-1-W	WATER	1/16/04	14:00	1/17/04	MTLW	Metals by ICP
	A097-28	HAAF-IDW-1-W	WATER	1/16/04	14:00	1/17/04	PESTW	Pesticides Organochlorine
	A097-28	HAAF-IDW-1-W	WATER	1/16/04	14:00	1/17/04	SVSIMW	Semivolatile Organics SIM

USEPA Contract Laboratory Program
Generic Chain of Custody

C2/ US_0401_

Reference Case
Client No:
SDG No: 04A097

L

Date Shipped:	1/16/2004
Carrier Name:	FedEx
Airbill:	840946764285
Shipped to:	EMAX Laboratories 1835 W. 205th Street Torrance CA 90501 (310) 618-8889

Chain of Custody Record

Relinquished By	(Date / Time)	Sampler Signature: Received By	(Date / Time)
1 Teresa M Rodgers	1/16/04	[signature]	1-17-04 1115
2			
3			
4			

For Lab Use Only

Lab Contract No:
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

	SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		FOR LAB USE ONLY Sample Condition On Receipt
1	HAAF-B35-760-V	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-B35-760-V	S: 1/13/2004	10:21	
2	HAAF-B35-761-V	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-B35-761-V	S: 1/13/2004	10:22	
3	HAAF-B35-762-V	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-B35-762-V	S: 1/13/2004	9:58	
4	HAAF-B41PD-680	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-B41PD-680	S: 1/13/2004	9:05	
5	HAAF-B41PD-681-8ft	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-B41PD-681-8ft	S: 1/13/2004	9:20	
6	HAAF-B41PD-682-8ft	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-B41PD-682-8ft	S: 1/13/2004	9:10	
7	HAAF-B41PD-683-8ft	Soil/Sediment	/G	8081A (21)	100 (1)	HAAF-B41PD-683-8ft	S: 1/13/2004	9:11	
8	HAAF-B41PD-684-8.5ft	Soil/Sediment	/G	8081A (21)	101 (1)	HAAF-B41PD-684-8.5ft	S: 1/13/2004	9:24	
9	HAAF-FITB-729	Soil/Sediment	/G	SW 6010B (21)	(1)	HAAF-FITB-729	S: 1/15/2004	9:10	
10	HAAF-FITB-730	Soil/Sediment	/G	SW 6010B (21)	(1)	HAAF-FITB-730	S: 1/15/2004	9:14	

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	HAAF-SPF-704, HAAF-SR-740		3.4°C	

Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

8081A = DDD,DDE,DDT, 8270C SIM = PAH, SW 6010B = Sb, As, Cd, Cr, Cu, Pb, Ni, Zn, SW 7471 = Hg

TR Number: Non-EPA-360645727-011604-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN	04A097
☐ EMAX Courier		Recepient	Jon Luna
☐ Client Delivery		Date	1-17-04
☑ Third Party FEDEX	840946764285	Time	1115

COC Inspection

☑ Client Name	☐ Sampler Name	☑ Sampling Date/Time/Location
☑ Address	☐ Courier Signature/Date/Time	☑ Analysis Required
☑ Client PM/FC	☐ TAT	☑ Matrix
☑ Tel #/Fax #	☑ Sample ID	☑ Preservative (if any)
Safety Issues ☑ None	☐ High Concentrations expected	☐ Superfund Site Samples
Comments: ☐ Rad Screening Required		

Packaging Inspection

Container	☑ Cooler	☐ Box	☐	☐
Condition	☐ Custody Seal	☐ Intact	☐ Damaged	☐
Packaging	☑ Bubble Pack	☐ Styrofoam	☑ Sufficient	☑ Plastic bag
Temperatures	☑ Cooler 3.4°C	☑ Cooler 2 ____	☐ Cooler 3 ____	☐ Cooler 4 ____
	☐ Cooler 5 ____	☐ Cooler 6 ____	☐ Cooler 7 ____	☐ Cooler 8 ____
	☐ Cooler 9 ____	☐ Cooler 10 ____	☐ Cooler 11 ____	☐ Cooler 12 ____

Comments:

LSCID	Client ID	Discrepancy	Corrective Action
A097-24	HAAF-VOOO-763-V	DATE = TIME ON LABEL READS 1/14/04, 1622, (NO DATE = TIME ON COC)	Use date & time from label
-27	HAAF-VOOO-506-V		
-28	HAAF-10W-1-W	DATE = TIME ON LABEL READS 1/16/04, 1400, ALL ANALYSIS ARE REQ'STD ON EACH CONTAINER (WATER)	

LSCID : Lab Sample Container ID

REVIEWS

Sample Labeling [signature] Date 01-17-04

SRF [signature] Date 1/21/04

PM [signature] Date 1/21/04

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected	: 01/13/04
Project	: HAAF, MISC.S.I.	Date Received	: 01/17/04
Batch No.	: 04A097	Date Extracted	: 01/23/04 13:00
Sample ID	: HAAF-B41PD-681-8FT	Date Analyzed	: 01/29/04 14:24
Lab Samp ID	: A097-05	Dilution Factor	: 1
Lab File ID	: SA27106A	Matrix	: SOIL
Ext Btch ID	: CPA018S	% Moisture	: 12.0
Calib. Ref.	: SA27097A	Instrument ID	: GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.0014J|(.0034)	.0023	.001|.001
4,4'-DDD	.013|(.015)	.0023	.0011|.0011
4,4'-DDT	(.0023)|.0023J	.0023	.00072|.00072
TOTAL DDT	.017|(.021)	.0023	.00072|.00072

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(96)|93	50-130
DECACHLOROBIPHENYL	83|(85)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	01/13/04
Project	: HAAF, MISC.S.I.	Date Received:	01/17/04
Batch No.	: 04A097	Date Extracted:	01/23/04 13:00
Sample ID:	HAAF-B41PD-683-8FT	Date Analyzed:	01/28/04 12:53
Lab Samp ID:	A097-07	Dilution Factor:	1
Lab File ID:	SA27047A	Matrix :	SOIL
Ext Btch ID:	CPA018S	% Moisture :	21.8
Calib. Ref.:	SA27043A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	(ND)|ND	.0026	.0012|.0012
4,4'-DDD	.0017J|(.0064)	.0026	.0012|.0012
4,4'-DDT	(ND)|ND	.0026	.00081|.00081
TOTAL DDT	.0017J|(.0064)	.0026	.00081|.00081

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	94|(95)	50-130
DECACHLOROBIPHENYL	(91)|72	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	01/13/04
Project	: HAAF, MISC.S.I.	Date Received:	01/17/04
Batch No.	: 04A097	Date Extracted:	01/23/04 13:00
Sample ID:	HAAF-B41PD-680DL	Date Analyzed:	01/29/04 07:11
Lab Samp ID:	A097-04T	Dilution Factor:	10
Lab File ID:	SA27089A	Matrix :	SOIL
Ext Btch ID:	CPA018S	% Moisture :	7.5
Calib. Ref.:	SA27080A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.027|(.034)	.022	.0099|.0099
4,4'-DDD	.16|(.17)	.022	.01|.01
4,4'-DDT	(.077)|.073	.022	.0069|.0069
TOTAL DDT	(.27)|.27	.022	.0069|.0069

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	92|(102)	50-130
DECACHLOROBIPHENYL	46*|(94)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	01/13/04
Project	: HAAF, MISC.S.I.	Date Received:	01/17/04
Batch No.	: 04A097	Date Extracted:	01/23/04 13:00
Sample ID:	HAAF-B41PD-682-8FTDL	Date Analyzed:	01/29/04 07:36
Lab Samp ID:	A097-06T	Dilution Factor:	20
Lab File ID:	SA27090A	Matrix :	SOIL
Ext Btch ID:	CPA018S	% Moisture :	22.5
Calib. Ref.:	SA27080A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	(ND)|.031J	.052	.024|.024
4,4'-DDD	(.45)|.44	.052	.025|.025
4,4'-DDT	.029J|(ND)	.052	.016|.016
TOTAL DDT	(.49)|.47	.052	.016|.016

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	81|(114)	50-130
DECACHLOROBIPHENYL	(53)|45*	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	01/13/04
Project	: HAAF, MISC.S.I.	Date Received:	01/17/04
Batch No.	: 04A097	Date Extracted:	01/23/04 13:00
Sample ID:	HAAF-B41PD-684-8.5FTDL	Date Analyzed:	01/29/04 08:27
Lab Samp ID:	A097-08T	Dilution Factor:	50
Lab File ID:	SA27092A	Matrix :	SOIL
Ext Btch ID:	CPA018S	% Moisture :	4.2
Calib. Ref.:	SA27080A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.088J|(.13)	.1	.048|.048
4,4'-DDD	(.26)|.26	.1	.051|.051
4,4'-DDT	(.33)|.29	.1	.033|.033
TOTAL DDT	(.68)|.67	.1	.033|.033

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	DO|DO	50-130
DECACHLOROBIPHENYL	DO|DO	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

USEPA Contract Laboratory Program
Generic Chain of Custody

C3

Reference Case
Client No:
SDG No: 04A096

L

Date Shipped:	1/16/2004
Carrier Name:	FedEx
Airbill:	840946764285
Shipped to:	EMAX Laboratories 1835 W. 205th Street Torrance CA 90501 (310) 618-8889

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
Teresa M Rodgers	1/16/04	[signature]	1-17-04 1115
2			
3			
4			

Sampler Signature:

For Lab Use Only
Lab Contract No:
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

	SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		FOR LAB USE ONLY Sample Condition On Receipt
11	HAAF-REV7-728	Soil/Sediment	/G	SW 7471 (21)	(1)	HAAF-REV7-728	S: 1/12/2004	13:05	
12	HAAF-SPF-701	Soil/Sediment/ Teresa Rodgers	/G	8081A (21)	111 (1)	HAAF-SPF-701	S: 1/15/2004	11:52	
13	HAAF-SPF-702	Soil/Sediment/ Teresa Rodgers	/G	8081A (21)	111 (1)	HAAF-SPF-702	S: 1/15/2004	11:53	
14	HAAF-SPF-703	Soil/Sediment/ Teresa Rodgers	/G	8081A (21)	111 (1)	HAAF-SPF-703	S: 1/15/2004	11:55	
15	HAAF-SPF-704	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-SPF-704	S: 1/15/2004	11:58	
16	HAAF-SR-738	Soil/Sediment	/G	8270C SIM (21), SW 6010B (21)	(Not preserved) (2)	HAAF-SR-738	S: 1/13/2004	16:02	
17	HAAF-SR-739	Soil/Sediment	/G	8270C SIM (21), SW 6010B (21)	(2)	HAAF-SR-739	S: 1/13/2004	15:46	
18	HAAF-SR-740	Soil/Sediment	/G	8270C SIM (21), SW 6010B (21)	(2)	HAAF-SR-740	S: 1/13/2004	15:36	
19	HAAF-SR-741	Soil/Sediment	/G	8270C SIM (21), SW 6010B (21)	(Not preserved) (2)	HAAF-SR-741	S: 1/13/2004	16:45	
20	HAAF-SR-742	Soil/Sediment	/G	8270C SIM (21), SW 6010B (21)	(2)	HAAF-SR-742	S: 1/13/2004	16:48	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: HAAF-SPF-704, HAAF-SR-740	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3.4°C	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

8081A = DDD,DDE,DDT, 8270C SIM = PAH, SW 6010B = Sb, As, Cd, Cr, Cu, Pb, Ni, Zn, SW 7471 = Hg

TR Number: Non-EPA-360645727-011604-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected	: 01/15/04
Project	: HAAF, MISC.S.I.	Date Received	: 01/17/04
Batch No.	: 04A096	Date Extracted	: 01/23/04 13:00
Sample ID	: HAAF-SPF-701	Date Analyzed	: 01/28/04 05:01
Lab Samp ID	: A096-12	Dilution Factor	: 1
Lab File ID	: SA27032A	Matrix	: SOIL
Ext Btch ID	: CPA018S	% Moisture	: 28.8
Calib. Ref.	: SA27027A	Instrument ID	: GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	(.029)|.029	.0028	.0013|.0013
4,4'-DDD	(.049)|.045	.0028	.0014|.0014
4,4'-DDT	(.043)|.04	.0028	.00089|.00089
TOTAL DDT	(.12)|.11	.0028	.00089|.00089

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	96|(100)	50-130
DECACHLOROBIPHENYL	73|(83)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	01/15/04
Project	: HAAF, MISC.S.I.	Date Received:	01/17/04
Batch No.	: 04A096	Date Extracted:	01/23/04 13:00
Sample ID:	HAAF-SPF-703	Date Analyzed:	01/28/04 05:51
Lab Samp ID:	A096-14	Dilution Factor:	1
Lab File ID:	SA27034A	Matrix :	SOIL
Ext Btch ID:	CPA018S	% Moisture :	25.1
Calib. Ref.:	SA27027A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.018|(.02)	.0027	.0012|.0012
4,4'-DDD	(.032)|.028	.0027	.0013|.0013
4,4'-DDT	.048|(.051)	.0027	.00085|.00085
TOTAL DDT	.098|(.099)	.0027	.00085|.00085

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(102)|94	50-130
DECACHLOROBIPHENYL	78|(79)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected	: 01/15/04
Project	: HAAF, MISC.S.I.	Date Received	: 01/17/04
Batch No.	: 04A096	Date Extracted	: 01/23/04 13:00
Sample ID	: HAAF-SPF-704	Date Analyzed	: 01/28/04 06:17
Lab Samp ID	: A096-15	Dilution Factor	: 1
Lab File ID	: SA27035A	Matrix	: SOIL
Ext Btch ID	: CPA018S	% Moisture	: 39.7
Calib. Ref.	: SA27027A	Instrument ID	: GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.0039|(.0054)	.0033	.0015|.0015
4,4'-DDD	(.0084)|.0035	.0033	.0016|.0016
4,4'-DDT	.0059|(.006)	.0033	.0011|.0011
TOTAL DDT	(.018)|.015	.0033	.0011|.0011

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(107)|101	50-130
DECACHLOROBIPHENYL	(86)|83	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected	: 01/15/04
Project	: HAAF, MISC.S.I.	Date Received	: 01/17/04
Batch No.	: 04A096	Date Extracted	: 01/23/04 13:00
Sample ID	: HAAF-SPF-702DL	Date Analyzed	: 01/29/04 05:30
Lab Samp ID	: A096-13T	Dilution Factor	: 4
Lab File ID	: SA27085A	Matrix	: SOIL
Ext Btch ID	: CPA018S	% Moisture	: 24.0
Calib. Ref.	: SA27080A	Instrument ID	: GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.047|(.053)	.011	.0048|.0048
4,4'-DDD	(.022)|.013	.011	.0051|.0051
4,4'-DDT	(.14)|.13	.011	.0033|.0033
TOTAL DDT	(.21)|.2	.011	.0033|.0033

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	105|(112)	50-130
DECACHLOROBIPHENYL	97|(105)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	NA
Project	: HAAF, MISC.S.I.	Date Received:	01/23/04
Batch No.	: 04A096	Date Extracted:	01/23/04 13:00
Sample ID:	MBLK1S	Date Analyzed:	01/29/04 00:02
Lab Samp ID:	CPA018SB	Dilution Factor:	1
Lab File ID:	SA27072A	Matrix :	SOIL
Ext Btch ID:	CPA018S	% Moisture :	NA
Calib. Ref.:	SA27058A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	(ND)|ND	.002	.00092|.00092
4,4'-DDD	(ND)|ND	.002	.00097|.00097
4,4'-DDT	(ND)|ND	.002	.00063|.00063
TOTAL DDT	(ND)|ND	.002	.00063|.00063

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(97)|96	50-130
DECACHLOROBIPHENYL	86|(90)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: USACE
PROJECT: HAAF, MISC.S.I.
BATCH NO.: 04A096
METHOD: SW3550B/8081A

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	MBLK1S			
LAB SAMP ID:	CPA018SB	CPA018SL		
LAB FILE ID:	SA27072A	SA27031A		
DATE EXTRACTED:	01/23/0413:00	01/23/0413:00	DATE COLLECTED:	NA
DATE ANALYZED:	01/29/0400:02	01/28/0404:36	DATE RECEIVED:	01/23/04
PREP. BATCH:	CPA018S	CPA018S		
CALIB. REF:	SA27058A	SA27027A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
4,4'-DDT	(ND)|ND	.0133	.00969|(.0107)	73|(80)	40-160

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Tetrachloro-m-xylene	.0133	.01|(.0101)	(75)|75	50-130
Decachlorobiphenyl	.0266	.0218|(.0222)	(82)|83	50-150

002071 C1

CHAIN OF CUSTODY RECORD

04D090

US ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
Environmental Engineering Branch
SPK-ED-E
1325 J Street
Sacramento, California
95814-2922

Project Name: HAAF BRAC Misc.
Project Location: Hamilton Army Airfield
Project Coordinator: Kathy Siebenmann
Phone: 916-557-7180 FAX: 916-557-7465
Sampler: Teresa Rodgers Phone: 916-557-6624

Laboratory: EMAX Laboratory
Address: 18356 W. 205th Street
Torrance, CA 90501
Contact: Richard Beauvil
Phone: 310-618-8889 x-118

ANALYSIS REQUESTED ➤

	SAMPLE IDENTIFICATION Field	Laboratory	GRAB	COMP	DATE	TIME	8081A*	MS/MSD	TURN AROUND TIME (DAYS)	MATRIX CODE	NUMBER OF CONTAINERS PLASTIC	GLASS	VOA	SLEEVE	FIELD FILTERED	PRESERVATIVE CODE
1	SPF-1400-ØFT		X		4/14/04	1155	X		1 week	S		X				
2	SPF-1401-ØFT		↓		↓	1158	↓		1 wk	↓		↓				
3	SPF-1402-ØFT		↓		↓	1205	↓	X	1 wk	↓		↓				
4	SPF-1403-ØFT		↓		↓	1214	↓		↓	↓		↓				
5	SPF-1404-ØFT		↓		↓	1220	↓		↓	↓		↓				
6	SPF-1405-ØFT		↓		↓	1225	↓		↓	↓		↓				
7	SPF-1400-2FT		↓		↓	1254	↓		↓	↓		↓				
8	SPF-1401-2FT		↓		↓	1319	↓		↓	↓		↓				
9	SPF-1402-2FT		↓		↓	1342	↓		↓	↓		↓				
10	SPF-1402-a-2FT		↓		↓	1342	↓		1 wk	S		X				

COMMENTS/SPECIAL INSTRUCTIONS:
* DDE, DDD, DDT and Total DDTs only. PR+C = Ø246Ø
Use HAAF BRAC Misc. QAPP. Please put PR+C# on invoice.

CHECKED BY:

PRESERVATIVE CODES:
C = HCl N = HNO_3 S = H_2SO_4

SAMPLE DISPOSAL:
☐ Hold ☒ Dispose ☐ Return

MATRIX CODES:
W = Water Sl = Sludge SP = Solid Product
S = Soil A = Air LP = Liquid Product
Sd = Sediment

SHIPPING:
☒ Fed Ex ☐ Courier ☐ Hand Deliver
Airbill Number: 840946764790

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
Teresa Rodgers	4/14/04 1614	[signature]	4-15-04/0915

1001

CESPK FORM 111
1 NOV 97

DISTRIBUTION: WHITE and YELLOW - send to testing laboratory; PINK - retained by originator

T = 3.8°C

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	04/14/04
Project	: HAAF, MISC.S.I.	Date Received:	04/15/04
Batch No.	: 04D090	Date Extracted:	04/16/04 12:00
Sample ID:	SPF-1400-OFT	Date Analyzed:	04/19/04 16:20
Lab Samp ID:	D090-01	Dilution Factor:	1
Lab File ID:	WD19011A	Matrix :	SOIL
Ext Btch ID:	CPD013W	% Moisture :	6.5
Calib. Ref.:	WD19003A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.0049 | (.0053)	.0021	.00098 | .00098
4,4'-DDD	(.0039) | .0031	.0021	.001 | .001
4,4'-DDT	.016 | (.018)	.0021	.00068 | .00068
TOTAL DDT	(.027) | .024	.0021	.00068 | .00068

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	97 | (100)	50-130
DECACHLOROBIPHENYL	(68) | 67	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	04/14/04
Project	: HAAF, MISC.S.I.	Date Received:	04/15/04
Batch No.	: 04D090	Date Extracted:	04/16/04 12:00
Sample ID:	SPF-1401-OFTDL	Date Analyzed:	04/19/04 16:45
Lab Samp ID:	D090-02T	Dilution Factor:	5
Lab File ID:	WD19012A	Matrix :	SOIL
Ext Btch ID:	CPD013W	% Moisture :	6.4
Calib. Ref.:	WD19003A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	(.055)|.053	.011	.0049|.0049
4,4'-DDD	(.061)|.052	.011	.0052|.0052
4,4'-DDT	.16|(.17)	.011	.0034|.0034
TOTAL DDT	(.29)|.27	.011	.0034|.0034

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	95|(106)	50-130
DECACHLOROBIPHENYL	76|(87)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	04/14/04
Project	: HAAF, MISC.S.I.	Date Received:	04/15/04
Batch No.	: 04D090	Date Extracted:	04/16/04 12:00
Sample ID:	SPF-1402-OFTDL	Date Analyzed:	04/19/04 17:10
Lab Samp ID:	D090-03T	Dilution Factor:	6
Lab File ID:	WD19013A	Matrix :	SOIL
Ext Btch ID:	CPD013W	% Moisture :	6.6
Calib. Ref.:	WD19003A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.023|(.025)	.013	.0059|.0059
4,4'-DDD	(.16)|.14	.013	.0062|.0062
4,4'-DDT	.056|(.079)	.013	.0041|.0041
TOTAL DDT	(.26)|.22	.013	.0041|.0041

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	83|(119)	50-130
DECACHLOROBIPHENYL	(62)|38*	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	04/14/04
Project	: HAAF, MISC.S.I.	Date Received:	04/15/04
Batch No.	: 04D090	Date Extracted:	04/16/04 12:00
Sample ID:	SPF-1403-OFT	Date Analyzed:	04/19/04 17:36
Lab Samp ID:	D090-04	Dilution Factor:	1
Lab File ID:	WD19014A	Matrix :	SOIL
Ext Btch ID:	CPD013W	% Moisture :	10.8
Calib. Ref.:	WD19003A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.007 | (.0083)	.0022	.001 | .001
4,4'-DDD	(.0053) | .0047	.0022	.0011 | .0011
4,4'-DDT	.021 | (.024)	.0022	.00071 | .00071
TOTAL DDT	(.038) | .033	.0022	.00071 | .00071

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(107) | 77	50-130
DECACHLOROBIPHENYL	63 | (65)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	04/14/04
Project	: HAAF, MISC.S.I.	Date Received:	04/15/04
Batch No.	: 04D090	Date Extracted:	04/16/04 12:00
Sample ID:	SPF-1404-0FTDL	Date Analyzed:	04/19/04 18:01
Lab Samp ID:	D090-05T	Dilution Factor:	6
Lab File ID:	WD19015A	Matrix :	SOIL
Ext Btch ID:	CPD013W	% Moisture :	7.2
Calib. Ref.:	WD19003A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	(.07)|.07	.013	.0059|.0059
4,4'-DDD	(.029)|.016	.013	.0063|.0063
4,4'-DDT	(.22)|.21	.013	.0041|.0041
TOTAL DDT	(.32)|.3	.013	.0041|.0041

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	92|(95)	50-130
DECACHLOROBIPHENYL	(73)|73	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	04/14/04
Project	: HAAF, MISC.S.I.	Date Received:	04/15/04
Batch No.	: 04D090	Date Extracted:	04/16/04 12:00
Sample ID:	SPF-1405-OFTDL	Date Analyzed:	04/19/04 18:27
Lab Samp ID:	D090-06T	Dilution Factor:	6
Lab File ID:	WD19016A	Matrix :	SOIL
Ext Btch ID:	CPD013W	% Moisture :	15.3
Calib. Ref.:	WD19003A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	(.14)|.13	.014	.0065|.0065
4,4'-DDD	(.028)|.028	.014	.0069|.0069
4,4'-DDT	(.28)|.27	.014	.0045|.0045
TOTAL DDT	(.45)|.43	.014	.0045|.0045

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	93|(105)	50-130
DECACHLOROBIPHENYL	58|(60)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	04/14/04
Project	: HAAF, MISC.S.I.	Date Received:	04/15/04
Batch No.	: 04D090	Date Extracted:	04/16/04 12:00
Sample ID:	SPF-1400-2FT	Date Analyzed:	04/19/04 18:52
Lab Samp ID:	D090-07	Dilution Factor:	1
Lab File ID:	WD19017A	Matrix :	SOIL
Ext Btch ID:	CPD013W	% Moisture :	23.6
Calib. Ref.:	WD19003A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	(ND)|.0023J	.0026	.0012|.0012
4,4'-DDD	(ND)|ND	.0026	.0013|.0013
4,4'-DDT	.00086J|(.001J)	.0026	.00083|.00083
TOTAL DDT	.00086J|(.001J)	.0026	.00083|.00083

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(81)|75	50-130
DECACHLOROBIPHENYL	(60)|58	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	04/14/04
Project	: HAAF, MISC.S.I.	Date Received:	04/15/04
Batch No.	: 04D090	Date Extracted:	04/16/04 12:00
Sample ID:	SPF-1401-2FT	Date Analyzed:	04/19/04 19:17
Lab Samp ID:	D090-08	Dilution Factor:	1
Lab File ID:	WD19018A	Matrix :	SOIL
Ext Btch ID:	CPD013W	% Moisture :	20.0
Calib. Ref.:	WD19003A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.0035 | (.0041)	.0025	.0011 | .0011
4,4'-DDD	(ND) | ND	.0025	.0012 | .0012
4,4'-DDT	.0051 | (.0062)	.0025	.00079 | .00079
TOTAL DDT	.0086 | (.010)	.0025	.00079 | .00079

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(95) | 83	50-130
DECACHLOROBIPHENYL	64 | (65)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	04/14/04
Project	: HAAF, MISC.S.I.	Date Received:	04/15/04
Batch No.	: 04D090	Date Extracted:	04/16/04 12:00
Sample ID:	SPF-1402-2FT	Date Analyzed:	04/19/04 21:49
Lab Samp ID:	D090-09	Dilution Factor:	1
Lab File ID:	WD19024A	Matrix :	SOIL
Ext Btch ID:	CPD013W	% Moisture :	24.8
Calib. Ref.:	WD19021A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.0015J | (.0017J)	.0027	.0012 | .0012
4,4'-DDD	(ND) | ND	.0027	.0013 | .0013
4,4'-DDT	(.0025J) | .0023J	.0027	.00084 | .00084
TOTAL DDT	.0038 | (.0042)	.0027	.00084 | .00084

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	79 | (96)	50-130
DECACHLOROBIPHENYL	65 | (66)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	04/14/04
Project	: HAAF, MISC.S.I.	Date Received:	04/15/04
Batch No.	: 04D090	Date Extracted:	04/16/04 12:00
Sample ID:	SPF-1402-A-2FT	Date Analyzed:	04/19/04 22:15
Lab Samp ID:	D090-10	Dilution Factor:	1
Lab File ID:	WD19025A	Matrix :	SOIL
Ext Btch ID:	CPD013W	% Moisture :	24.1
Calib. Ref.:	WD19021A	Instrument ID :	GCT016

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.0018J | (.002J)	.0026	.0012 | .0012
4,4'-DDD	(ND) | ND	.0026	.0013 | .0013
4,4'-DDT	.0021J | (.0027)	.0026	.00084 | .00084
TOTAL DDT	.0039 | (.0047)	.0026	.00084 | .00084

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	86 | (89)	50-130
DECACHLOROBIPHENYL	(63) | 63	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

USEPA Contract Laboratory Program
Generic Chain of Custody

US_0401_

C3

Reference Case
Client No:
SDG No: 04A096

L

Date Shipped:	1/16/2004
Carrier Name:	FedEx
Airbill:	840946764285
Shipped to:	EMAX Laboratories 1835 W. 205th Street Torrance CA 90501 (310) 618-8889

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
Teresa M Rodgers	1/16/04	[illegible]	1-17-04 1115
2			
3			
4			

Sampler Signature:

For Lab Use Only
Lab Contract No:
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

	SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		FOR LAB USE ONLY Sample Condition On Receipt
1	HAAF-FITB-731	Soil/Sediment	/G	SW 6010B (21)	(1)	HAAF-FITB-731	S: 1/15/2004	9:27	
2	HAAF-FITB-732	Soil/Sediment	/G	SW 6010B (21)	(1)	HAAF-FITB-732	S: 1/15/2004	9:39	
3	HAAF-FITB-733	Soil/Sediment	/G	SW 6010B (21)	(1)	HAAF-FITB-733	S: 1/15/2004	9:45	
4	HAAF-FITB-D-504	Soil/Sediment	/G	SW 6010B (21)	(1)	HAAF-FITB-D-504	S: 1/15/2004	9:39	
5	HAAF-REV6-723	Soil/Sediment	/G	SW 7471 (21)	(1)	HAAF-REV6-723	S: 1/12/2004	12:30	
6	HAAF-REV6-724	Soil/Sediment	/G	SW 7471 (21)	(1)	HAAF-REV6-724	S: 1/12/2004	12:35	
7	HAAF-REV6-725	Soil/Sediment	/G	SW 7471 (21)	(1)	HAAF-REV6-725	S: 1/12/2004	12:40	
8	HAAF-REV6-D-503	Soil/Sediment	/G	SW 7471 (21)	(1)	HAAF-REV6-D-503	S: 1/12/2004	12:35	
9	HAAF-REV7-726	Soil/Sediment	/G	SW 7471 (21)	(1)	HAAF-REV7-726	S: 1/12/2004	13:00	
10	HAAF-REV7-727	Soil/Sediment	/G	SW 7471 (21)	(1)	HAAF-REV7-727	S: 1/12/2004	13:03	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	HAAF-SPF-704, HAAF-SR-740		3.4°C	

Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? ✓	Shipment Iced? ✓

8081A = DDD,DDE,DDT, 8270C SIM = PAH, SW 6010B = Sb, As, Cd, Cr, Cu, Pb, Ni, Zn, SW 7471 = Hg

TR Number: Non-EPA-360645727-011604-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

LABORATORY COPY

USEPA Contract Laboratory Program
Generic Chain of Custody

C3

Reference Case
Client No:
SDG No: 04A096

L

Date Shipped:	1/16/2004
Carrier Name:	FedEx
Airbill:	840946764285
Shipped to:	EMAX Laboratories 1835 W. 205th Street Torrance CA 90501 (310) 618-8889

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
Teresa M Rodgers	1/16/04	[signature]	1-17-04 1115
2			
3			
4			

Sampler Signature:

For Lab Use Only
Lab Contract No:
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

	SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		FOR LAB USE ONLY Sample Condition On Receipt
11	HAAF-REV7-728	Soil/Sediment	/G	SW 7471 (21)	(1)	HAAF-REV7-728	S: 1/12/2004	13:05	
12	HAAF-SPF-701	Soil/Sediment/ Teresa Rodgers	/G	8081A (21)	111 (1)	HAAF-SPF-701	S: 1/15/2004	11:52	
13	HAAF-SPF-702	Soil/Sediment/ Teresa Rodgers	/G	8081A (21)	111 (1)	HAAF-SPF-702	S: 1/15/2004	11:53	
14	HAAF-SPF-703	Soil/Sediment/ Teresa Rodgers	/G	8081A (21)	111 (1)	HAAF-SPF-703	S: 1/15/2004	11:55	
15	HAAF-SPF-704	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-SPF-704	S: 1/15/2004	11:58	
16	HAAF-SR-738	Soil/Sediment	/G	8270C SIM (21), SW 6010B (21)	(Not preserved) (2)	HAAF-SR-738	S: 1/13/2004	16:02	
17	HAAF-SR-739	Soil/Sediment	/G	8270C SIM (21), SW 6010B (21)	(2)	HAAF-SR-739	S: 1/13/2004	15:46	
18	HAAF-SR-740	Soil/Sediment	/G	8270C SIM (21), SW 6010B (21)	(2)	HAAF-SR-740	S: 1/13/2004	15:36	
19	HAAF-SR-741	Soil/Sediment	/G	8270C SIM (21), SW 6010B (21)	(Not preserved) (2)	HAAF-SR-741	S: 1/13/2004	16:45	
20	HAAF-SR-742	Soil/Sediment	/G	8270C SIM (21), SW 6010B (21)	(2)	HAAF-SR-742	S: 1/13/2004	16:48	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: HAAF-SPF-704, HAAF-SR-740	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3.4°C	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

8081A = DDD,DDE,DDT, 8270C SIM = PAH, SW 6010B = Sb, As, Cd, Cr, Cu, Pb, Ni, Zn, SW 7471 = Hg

TR Number: Non-EPA-360645727-011604-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

METHOD 7471A
MERCURY BY COLD VAPOR

Client : USACE
Project : HAAF, MISC.S.I.
Batch No. : 04A096

Matrix : SOIL
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGA016SB	ND	1	NA	.05	.025	01/22/0415:48	01/22/0412:30	M47A015010	M47A015008	HGA016S	NA	01/22/04
LCS1S	HGA016SL	.82	1	NA	.05	.025	01/22/0415:50	01/22/0412:30	M47A015011	M47A015008	HGA016S	NA	01/22/04
LCD1S	HGA016SC	.82	1	NA	.05	.025	01/22/0415:52	01/22/0412:30	M47A015012	M47A015008	HGA016S	NA	01/22/04
HAAF-REV6-D-503AS	A096-08A	.624	1	28.9	.0703	.0352	01/22/0415:54	01/22/0412:30	M47A015013	M47A015008	HGA016S	01/12/04	01/17/04
HAAF-REV6-D-503	A096-08	.157	1	28.9	.0703	.0352	01/22/0415:57	01/22/0412:30	M47A015014	M47A015008	HGA016S	01/12/04	01/17/04
HAAF-REV6-D-503DL	A096-08T	ND	5	28.9	.352	.176	01/22/0415:59	01/22/0412:30	M47A015015	M47A015008	HGA016S	01/12/04	01/17/04
HAAF-REV6-D-503MS	A096-08M	1.27	1	28.9	.0703	.0352	01/22/0416:01	01/22/0412:30	M47A015016	M47A015008	HGA016S	01/12/04	01/17/04
HAAF-REV6-D-503MSD	A096-08S	1.27	1	28.9	.0703	.0352	01/22/0416:04	01/22/0412:30	M47A015017	M47A015008	HGA016S	01/12/04	01/17/04
HAAF-REV6-723	A096-05	.0551J	1	13.2	.0576	.0288	01/22/0416:15	01/22/0412:30	M47A015022	M47A015020	HGA016S	01/12/04	01/17/04
HAAF-REV6-724	A096-06	.145	1	27.8	.0693	.0346	01/22/0416:17	01/22/0412:30	M47A015023	M47A015020	HGA016S	01/12/04	01/17/04
HAAF-REV6-725	A096-07	.105	1	24.0	.0658	.0329	01/22/0416:19	01/22/0412:30	M47A015024	M47A015020	HGA016S	01/12/04	01/17/04
HAAF-REV7-726	A096-09	.102	1	18.7	.0615	.0308	01/22/0416:21	01/22/0412:30	M47A015025	M47A015020	HGA016S	01/12/04	01/17/04
HAAF-REV7-727	A096-10	.165	1	29.0	.0704	.0352	01/22/0416:24	01/22/0412:30	M47A015026	M47A015020	HGA016S	01/12/04	01/17/04
HAAF-REV7-728	A096-11	.241	1	28.8	.0702	.0351	01/22/0416:26	01/22/0412:30	M47A015027	M47A015020	HGA016S	01/12/04	01/17/04

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: USACE
PROJECT: HAAF, MISC.S.I.
SDG NO.: 04A096
METHOD: METHOD 7471A

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	HGA016SB	HGA016SL	HGA016SC		
LAB FILE ID:	M47A015010	M47A015011	M47A015012		
DATIME EXTRCTD:	01/22/0412:30	01/22/0412:30	01/22/0412:30	DATE COLLECTED:	NA
DATIME ANALYZD:	01/22/0415:48	01/22/0415:50	01/22/0415:52	DATE RECEIVED:	01/22/04
PREP. BATCH:	HGA016S	HGA016S	HGA016S		
CALIB. REF:	M47A015008	M47A015008	M47A015008		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.82	98	.833	.82	98	0	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: USACE
PROJECT: HAAF, MISC.S.I.
SDG NO.: 04A096
METHOD: METHOD 7471A

MATRIX:	SOIL			% MOISTURE:	28.9
DILTN FACTR:	1	1	1		
SAMPLE ID:	HAAF-REV6-D-503				
CONTROL NO.:	A096-08	A096-08M	A096-08S		
LAB FILE ID:	M47A015014	M47A015016	M47A015017		
DATIME EXTRCTD:	01/22/0412:30	01/22/0412:30	01/22/0412:30	DATE COLLECTED:	01/12/04
DATIME ANALYZD:	01/22/0415:57	01/22/0416:01	01/22/0416:04	DATE RECEIVED:	01/17/04
PREP. BATCH:	HGA016S	HGA016S	HGA016S		
CALIB. REF:	M47A015008	M47A015008	M47A015008		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	.157	1.17	1.27	95	1.17	1.27	95	0	80-120	20

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: USACE
PROJECT: HAAF, MISC.S.I.
SDG NO.: 04A096
METHOD: METHOD 7471A

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MATRIX:	SOIL		% MOISTURE:	28.9
DILTN FACTR:	1	1		
SAMPLE ID:	HAAF-REV6-D-503			
CONTROL NO.:	A096-08	A096-08A		
LAB FILE ID:	M47A015014	M47A015013		
DATIME EXTRCTD:	01/22/0412:30	01/22/0412:30	DATE COLLECTED:	01/12/04
DATIME ANALYZD:	01/22/0415:57	01/22/0415:54	DATE RECEIVED:	01/17/04
PREP. BATCH:	HGA016S	HGA016S		
CALIB. REF:	M47A015008	M47A015008		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Mercury	.157	.468	.624	100	85-115