



BECHTEL NATIONAL INC.

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MCAS EL TORO
SSIC # 5090.3



CLEAN II TRANSMITTAL/DELIVERABLE RECEIPT

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Naval Facilities Engineering Command
Southwest Division
1220 Pacific Highway
San Diego, CA. 92132-5187

DATE: 06/16/95

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FROM:

D. K. Cowser, Project Manager

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4/19/95



MEETING MINUTES

Meeting Subject: BCT Meeting to resolve outstanding decisions on Revised Draft Work Plan and Draft Field Sampling Plan for the Phase II RI/FS at MCAS El Toro		Meeting Date: June 6, 1995 Meeting Time: 10:00 a.m. Meeting Place: Bechtel National Meeting Notes Prepared By: T. Latas
Attendees: (*Part Time)		
<u>Navy</u>	<u>Bechtel</u>	<u>Other</u>
Jason Ashman Joseph Joyce*	David Cowser Tim Latas Pat Brooks* Tim Latas Dante Tedaldi Pat Wiegand Stacie Wissler	Juan Jimenez DTSC Sherrill Beard DTSC Larry Vitale RWQCB Greg Holmes DTSC Bonnie Arthur USEPA Allison Jones RWQCB Lisa Hanusiak USEPA
Additional Distribution (In Addition to Attendees): John Kluesener		

Summary of Meeting Discussion Topic(s)/Action Items :

Jason Ashman of SWDIV conducted introductions of personnel and review the agenda for the meeting. Participants agreed to add a discussion of the USEPA QAMS comments and clarify the use of the "No Further Investigation (NFI)" recommendation.

DECISION MAKING

J. Ashman proceeded with a briefing on the process of decision making (see attached copy of board drawing). In particular, the issue of being "comfortable" about decisions needs to be eliminated and explicit reasoning needs to be applied to decision making. As part of his discussion, he recall the BCT team building and emphasized the need to make decisions today so the Revised Draft Work Plan (WP) and Draft Field Sampling Plan (FSP) can proceed with revisions and finalization.

PAH AMBIENT CONCENTRATIONS

The discussion of background and ambient concentrations of inorganics and organics resulted in the following conclusions:

1. Background concentrations - this term should be applied to the concentrations of inorganics that are naturally occurring in the environment. This term will be applied to the metal concentrations as established in the Phase I RI background study.
2. Ambient concentrations - this term is to be applied for concentrations of organics that have an anthropogenic source. Anthropogenic background was suggested as the preferred term but it may cause difficulty with public understanding (USEPA and DTSC will discuss this term with their community relations departments). For the WP and FSP, the term "ambient concentrations" will be incorporated.

Due to the prevalence of PAHs in many sites, the CLEAN II team presented a method to establish ambient concentrations for PAHs (see attached copy of the handouts). This method consisted of 16 samples collected from locations across MCAS El Toro and analyzing these samples by EPA Method 8240 or 8310 (whichever can achieve PRGs levels). The USEPA and DTSC disagreed that 4 proposed samples near runways would represent ambient. Also, DTSC suggested samples should be taken at two depths at each location. The BCT did agree that the runway sample results would be useful in making decisions on the scope of investigations at sites around the runways and evaluating the regional trend of PAHs. However, the samples from outside the runway areas would be considered as ambient concentrations.

Sample duplicates from each location will also be submitted for on-site immunoassay analyses in order to compare immunoassay results to CLP results.

USEPA questioned whether 16 locations is sufficient to conduct a statistical analysis of the data. T. Latas will check with the BNI statistician on this number. B. Arthur stated that if the number of samples for statistical analyses exceeded 30, then a qualitative assessment of the data could be completed rather than a statistical analysis.

MINIMUM NUMBER OF SAMPLES

The discussion of the minimum number of samples depends on the following:

1. The total number of Phase II RI samples and Phase I RI samples.
2. Percentage of field screen samples to be sent to fixed-base CLP laboratories.
3. Number of samples that will be required to support a NFI decision.

A handout was provided to the BCT which indicated the sites, units, number of sample locations, and number of soil samples to be collected at the various sites (see attached handout). As a general rule, 100% of the positive samples from qualitative field screening (e.g., PID, FID, etc.) would be submitted for quantitative field screening (if field methods are available to meet PRGs, ambient or background concentrations). The BCT agreed that a total of 20% of all samples would be submitted to a fixed-base CLP laboratory for confirmation. Of the 20%, two-thirds (2/3) of these samples would be positive samples from field screening and one-third (1/3) would be non-detects (below detection limits or quantification limits).

The BCT then proceed to review each site and agreed upon a minimum number of samples to be submitted for fixed-base CLP laboratory analyses (see attached handouts). In general, the number of CLP samples was increased for site units recommended for possible NFI.

RELATION OF SITE 24 TO OTHER SITES IN THE 24 AREA

The BCT discussed the relation of Site 24 to other OU-3 in the Site 24 area. A reference in the BCP was indicated in a footnote to Table 3-1a of the BCP which states "IRP Site 24 was identified in the Draft Phase II RI Work Plan and consists of most of the southwest quadrant of the Station. This area encompasses numerous LOCs; however, LOCs located in the Site 24 boundary are considered independently from IRP Site 24." The BCT concurred with the caveat that the work plan documentation clearly indicate where VOCs will be addressed under Site 24 work.

A request was made by the BCT to include additional soil gas survey in the Site 12 area as part of the Site 24 work because this work was recommended for the soil gas survey but was not completed. This additional soil gas work should consist of 2 locations with soil gas samples taken at 12 and 24 feet bgs.

USEPA OAMS COMMENTS

Comment 1A. Selection of field screening methods will be conducted on a site-specific basis and residential PRGs will be used to make the appropriate selection.

Comment 1B. To randomly select field screen samples for fixed-base analysis, a random number generator will be used to select samples for CLP laboratory analyses.

Comment 2B. Detection limits will be specified in the plans (usually a minimal concentration such as the USEPA Quantification limits).

Comment 4. Soil duplicates are not considered to appropriate for the Phase II RI because of the inherent problems that cannot be reconciled in a duplicate soil analysis, such as heterogeneity of the soil matrix and distribution of contaminants in the matrix. The BCT agreed to decide on this issue by the close of business on Friday June 9.

Comment 7. Alternatives to the use of nitric acid for decontamination were suggested because nitric acid is a hazardous materials and requires special provisions for handling, storage, and disposal. Citronox is currently used in Region IV USEPA and information on this will be provided to USEPA.

ADDITIONAL DISCUSSION

Health and Safety Coordination

Visitors to sites during the field investigation will be required to stay out of the exclusion zone if not 40-hour trained. Visitors can be escorted I the exclusion zone if proof of the 40-hour training is provided, appropriate PPE is used, and the CLEAN II health and safety plan is reviewed.

Field Office

The CLEAN II field office is located at the MCAS El Toro Environmental Restoration Facility (ERF) at Site 3. Visitors will be required to sign in. Hank Bachner is the Field Superintendent. Phone numbers are:

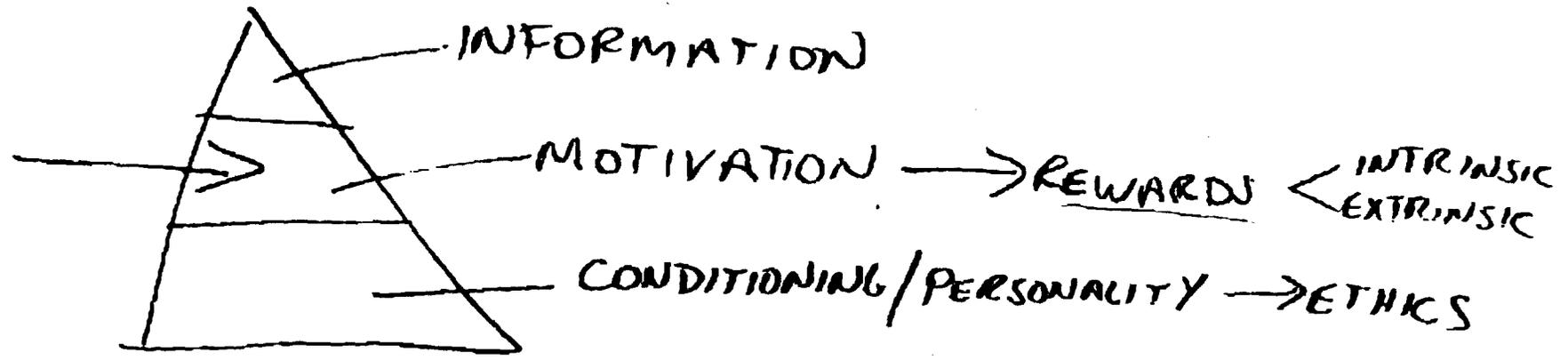
Office: (714) 733-9231
FAX: (714) 733-0680

Coordination of Groundwater Sampling

Currently, the Navy is considering various contracting options for the Groundwater Monitoring Plan. Once the decision on contracting is made, the coordination of groundwater monitoring with the RI/FS work will be addressed.

DE CISION

Consciousness
(mental)



BACKGROUND — (pristine)

Ambient CONDITIONS —

METALS

PESTICIDE/HERRACIDE

GROUNDWATER

Anthropogenic BACKGROUND —

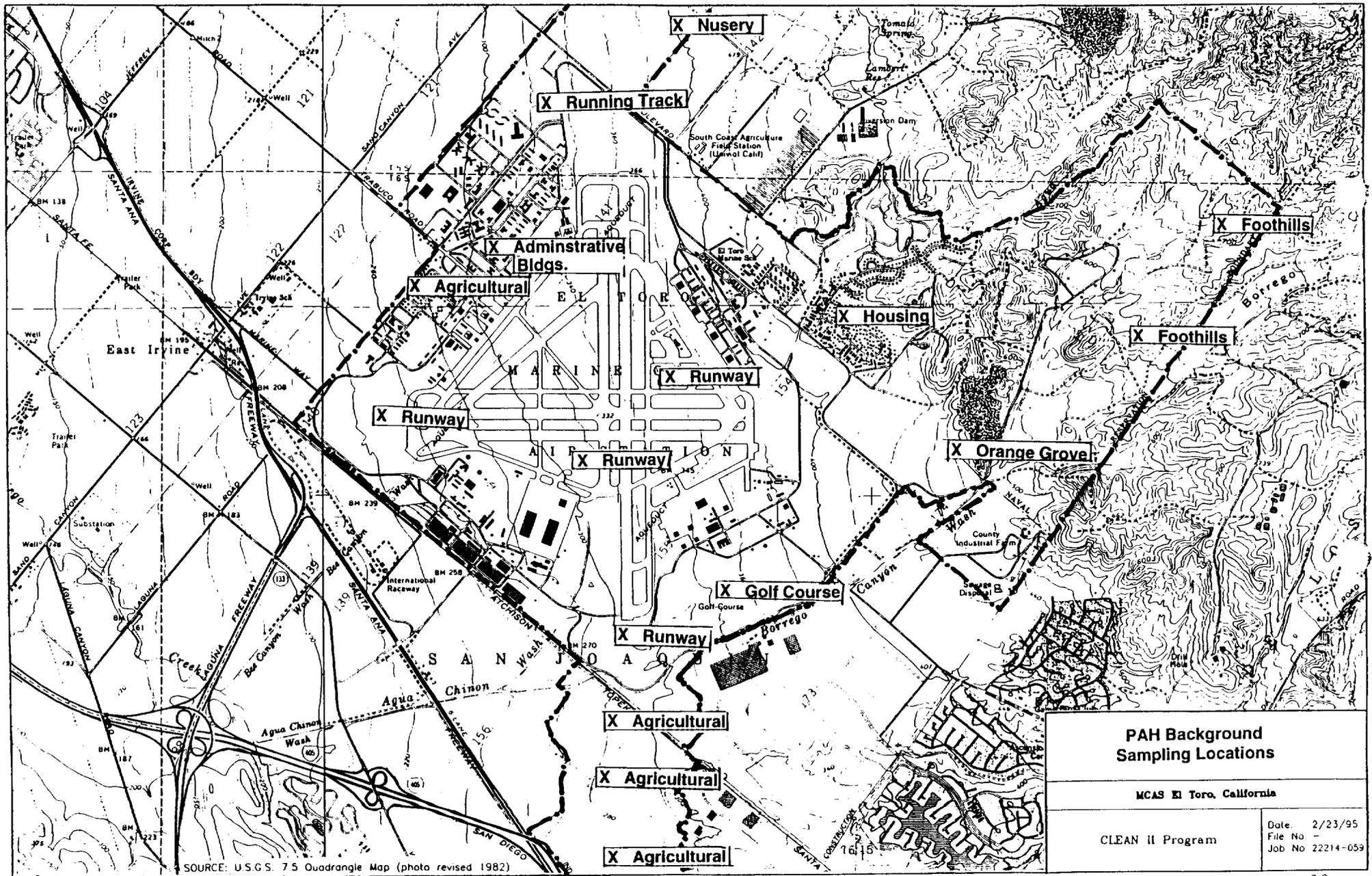
Pending
CR Approval
Greg + Bonnie
By 6/12

PROPOSED PAH BACKGROUND STUDY

Purpose - establish trend of background concentrations of PAHs due to regional anthropogenic sources.

Methodology

1. Sample soils 0 to 6 inches
2. 16 locations (randomly selected in different regions of the base)
3. Analysis by US E.P.A. Method 8310 or 8270 with data validation of Level D
4. Locations surveyed by GPS
5. Base divided in sections:
 - Foothills
 - Orange Grove
 - Housing
 - Nursery
 - Running track
 - Administrative buildings
 - Agricultural
 - Runways
 - Golf Course
6. Compare Immunoassay with CLP Methods
7. Avoid low lying areas
8. Use Navy Statistical Approaches to Background Sampling



SOURCE: U.S.G.S. 7.5 Quadrangle Map (photo revised 1982)

**PAH Background
Sampling Locations**

MCAS El Toro, California

CLEAN II Program

Date: 2/23/95
File No: -
Job No: 22214-059

Concern - ① VOC contamination based on Soil gas data
may have migrated from the surface.

② Site 24 study should not be driven
by our assumption that there is "one source."

**MINIMUM NUMBER OF SOIL SAMPLES
PHASE II RI/FS
MCAS EL TORO**

Site Number	Unit Number	Number of Locations	Number of Samples
Site 1	Monitoring Wells	3	45
Site 2	NA		
Site 3	Unit 1 - Landfill area	NA	
	Unit 2 - Agua Chinon Wash	NA	
	Unit 3 - Solvent spill	2	6
	Unit 4 - Former Incinerator	3	9
Site 4	Unit 1 - Stained area	Removal Action	
	Unit 2 - Drainage ditch	Removal Action	
Site 5	Unit 1 - Landfill area	NA	
	Unit 2 - Stockpiled IDW	NA	
Site 6	Unit 1 - Concrete apron edge	2	6
	Unit 2 - Drainage ditch	3	9
	Unit 3 - Storage area	3	9
Site 7	Unit 1 - North pavement edge	Removal Action	
	Unit 2	Site 24	
	Unit 3 - New east pavement edge	Removal Action	
	Unit 4 - Drainage ditch	3	9
	Unit 5 - Open dirt area	2	6
Site 8	Unit 1 - East storage yard	Removal Action	
	Unit 2 - West storage yard	5	20
	Unit 3 - Refuse pile	4	16
	Unit 4 - PCB spill area	Removal Action	
	Unit 5 - Old salvage yard	6	18
Site 9	Unit 1 - Pit area	5	15
	Unit 2 - Drainage area	6	18
Site 10	Unit 1 - Aircraft matting	8	24
	Unit 2 - Concrete apron	10	30
	Unit 3 - Parking lot area	12	36
	Unit 4 - Parking (Bldg 1589)	2	6
Site 11	Unit 1 - Concrete Pad	Removal Action	
	Unit 2 - Drainage ditch	Removal Action	
	Unit 3 - Storage yard	6	24
Site 12	Unit 1 - West sludge drying bed	2	8
	Unit 2 - East sludge drying bed	4	16
	Unit 3 - Drainage ditch	Removal Action	
	Unit 4 - Former WWTP	8	32
Site 13	Unit 1 - Area SE of tank farm	Removal Action	
	Unit 2 - Area SW of tank farm	Removal Action	
Site 14	Unit 1 - Acid disposal area	Removal Action	
Site 15	Unit 1 - Stained areas	Removal Action	
	Unit 2 - SWMU 273	6	18
Site 16	Unit 1 - Pits perimeter area	3	9
	Unit 2 - Fire-fighting pits	4	16
	Unit 3 - Drainage ditch	3	9
Site 17 -	Unit 1 - Landfill area	2	10
Site 19	Unit 1 - NE Stained Area	Removal Action	
	Unit 2 - Excavated area	Removal Action	
	Unit 3 - Stained area	6	18

**MINIMUM NUMBER OF SOIL SAMPLES
PHASE II RI/FS
MCAS EL TORO**

Site Number	Unit Number	Number of Locations	Number of Samples
	Unit 4 - Pump station	1	3
Site 20	Unit 1 - Drainage ditch	1	2
	Unit 2 - S Drainage ditch	Removal Action	
	Unit 3 - Stained area	Removal Action	
	Unit 4 - Courtyard	3	12
Site 21	Unit 1 - Storage area	2	6
Site 22	Unit 1 - Western Area	2	6
	Unit 2 - Eastern area	1	3
Site 24		33	198
Site 25	Unit 1 - Agua Chinon	3	24
	Unit 2 - Bee Canyon	1	6
TOTAL			702

	LOC	Dept	Samples	Cont.
SITE 1 Unit 1	12	3	36	X 8
2	12	3	36	X 8

of the 8

$\frac{2}{3}$ positives } for
 $\frac{1}{3}$ negatives } confirmation

↓↓
 IMMUNO ASSAY
 OR
 MOBILE LAB

↓↓
 FIXED LAB

SITE 3 UNIT

LOCATION	depths	# of Samples <small>IN HUNTERWAY OR MOBILE LAB</small>	# of Confirmation FIXED LAB	%	
3	2	3	6	3	50
4	3	3	9	3	33

2/3 of confirmations will be hits

1/3 of confirmations will be N/D

SITE	UNIT		LOCATION	Depth	# of Samples <small>IN NUMBERS OR NUMBER LAB</small>	# of Confirmation %	
						Fixed LAB	
6	1	NFA	2	3	6	6	100
	2	NFA	3	3	9	6	66.6
	3	RA	3	3	9	3	33

2/3 of confirmations will be hits

1/3 of confirmations will be N/D

SITE	UNIT	LOCATION	depths	# of Samples	# of Confirmation	%
				IMMUNOASSAY OR MOBILE LAB	FIXED LAB	
7	4 NFA	3	3	9	2 6	66
	5 RA	2	3	6	3	50

2/3 of confirmations will be hits
 1/3 of confirmations will be n/d

SITE	UNIT	LOCATION	Depth	# of Samples	# of Conf.	CLEAN I	%	
				IMMUNOASSAY OR. MOBILE LAB	Fixed LAB			
8	2	NFA	5	4	20	2 6	7	30
	3	RA	4	4	16	2 4	8	25
	5	NFA	6	3	18	2 6	6	33

$\frac{2}{3}$ of confirmations will be hits

$\frac{1}{3}$ of confirmations will be N/D

SITE	UNIT	LOCATION	depths	# of Samples	# of Conf.	CLEAN I	%
				IN HUNDREDSAY OR MOBILE LAB	Fixed LAB		
9	1 RA	5	3	15	3	7	20
	2 NFA	6	3	18	9	0	50

$\frac{2}{3}$ of confirmations will be hits

$\frac{1}{3}$ of confirmations will be N/D

SITE	UNIT	LOCATION	Depth	# of Samples	# of Conf.	CLEAN I	%
				IPMUNOASSAY OR MOORE LAB	FRED LAB		
10	1 RA	8	3	24	8 5	11	20+
	2 NFA	10	3	30	2 6	7	20
	3 NFA	12	3	36	X 9	0	25
	4 NFA	2	3	6	X 6	0	100%

$\frac{2}{3}$ of confirmations will be hits

$\frac{1}{3}$ of confirmations will be N/D

SITE	UNIT	LOCATION	depths	# of Samples <small>IN-HOUSE/RESAY OR MOBILE LAB</small>	# of Conf. <small>Fixed LAB</small>	CLEAN I	%
12	1 RA	2	4	8	3	10	
	2 RA	4	4	16	3	9	
	4 RA	8	4	32	3	21	

2/3 of confirmations will be hits

1/3 of confirmations will be N/D

==

SITE	UNIT	LOCATION	Depth	# of Samples	# of Conf.	CLEAN I	%
				IMMUNOASSAY OR MOBILE LAB	FIELD LAB		
15	2 RA	6	3	18	4 4	0	
16	1 RA	3	3	9	3	7	
	2 RA	4	4	16	3	9	
	3 NFA	3	3	9	2 6	8	

$\frac{2}{3}$ of confirmations will be hits

$\frac{1}{3}$ of confirmations will be N/D

SITE	UNIT	LOCATION	Depth	# of Samples <small>IN NUMBERSAY OR. MOORE LAB</small>	# of Conf. <small>Fixed LAB</small>	CLEAN I	%
19	3 NFP	6	3	18	5 5	8	
	4 NFA	1	3	3	3	2	
20	1 NFA	1	2	2	2	9	
	4 RA	3	4	12	3	7	
21	1 NFA	2	3	6	3	9	

$\frac{2}{3}$ of confirmations will be hits

$\frac{1}{3}$ of confirmations will be N/D

SITE	UNIT	LOCATION	Depth	# of Samples <small>INDUSTRY OR MOBILE LAB</small>	# of Conf. <small>Fixed LAB</small>	CLEAR I	%
22	1 RA	2	3	6	3	8	
	2 NFA	1	3	3	3	10	
24	1	33	~6	198	20	~25	
25	1	3	8	24	3	~4	
	2	1	6	6	3	~4	

2/3 of confirmations will be hits
 1/3 of confirmations will be N/D