



DOOLAN ENVIRONMENTAL

2 EVES DRIVE
MARLTON, NJ 08053
(609) 988-8100
(609) 988-8180 FAX

November 20, 1992

Recd 11/23/92
Chs [signature]
DEH
Environmental

Directorate of Engineering and Housing
Charles Appleby
Environmental Specialist
Bldg. 167
Fort Monmouth, NJ 07703-5108

Dear Chuck,

Enclosed is the Health and Safety Plan and a copy of the log book
for the Neutralization Pit Project.

If you need more information please call me at (609) 988-8100.

Sincerely,

[Signature]
Tony Prisco

DIVISION OF DOOLAN STEEL CORP.



FIELD

SITE HEALTH AND SAFETY PLAN (HASP) FORM

Prepared By J. HORN Date 10/7/92 W.O. # 501 - 152

I. General Information

A. Project Identification

1. Division DE 2. Department/Office MARLTON
4. Site Name FT MON/NEUTRALIZATION 5. Client SERVAIR
6. Work Location Address BLDG 2700
(Street Address)
FT MONMOUTH, NJ 07703
(City) (State) (Zip)

B. Site History

1. Describe briefly WASTEWATER NEUTRALIZATION FLOW THRU PITS

C. Scope of Work

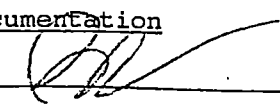
1. Describe briefly REMOVE SPENT LIME STONE, REPAIR SYSTEM, DECON PIT, BACKFILL PIT WITH FRESH LIMESTONE

() Site Visit only, Site HASP not necessary, list personnel here
and sign-off below:
_____, _____, _____, _____

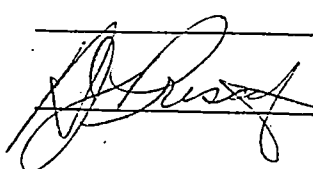
D. Hazard Assessment and Regulatory Status

1. Indicate Yes (Y)/No (N) to types of hazards anticipated.
(Y) Physio-chemical; Toxic Chemical - Levels (Y) >TLV-TWA, (N) >TLV-STEL,
(N) >IDLH; (N) Bio-Hazards; (N) Radiation; (Y) Physical; (Y) Construction type;
(Y) Industrial type; (N) Nuclear Industry type
2. Site Regulatory Status: CERCLA/SARA - (N) U.S. EPA, (N) State,
(N) NPL Site; RCRA - (Y) U.S. EPA, (Y) State; OSHA - (Y) 1910, (Y) 1926,
(N) State; NRC - (N) 10 CFR 20; Other Fed. Agency - (N) DOE, (N) USATHAMA,
(N) Air Force;

D. Review and Approval Documentation

1. Reviewed By: J. HORN  Date 10/7/92

Date _____

2. Approved By:  Date 10/8/92

1.0 Key Personnel

<u>Organization/Branch</u>	<u>Name/Title</u>	<u>Address</u>	<u>Telephone</u>
<u>DE</u>	A. PRISCO/SC	2 EVES DR, MARLTON, NJ	(609) 988 - 8100
<u>DE</u>	A. DEVLIN/FT	" "	" "
<u>DE</u>	D. GUINTO/FT	" "	" "

Roles and Responsibilities: THE SITE COORDINATOR ORGANIZES ALL SITE ACTIVITIES, INCLUDING MATERIAL HANDLING, SUBCONTRACTOR OVERSIGHT, PIT CLEANING & ENTRY.

Subcontractors

<u>Organization/Branch</u>	<u>Name/Title</u>	<u>Address</u>	<u>Telephone</u>
<u>ENCLEAN</u>	<u>T. DALE</u>	RD1 BOX23C, SWEDESBORO, NJ	<u>609-467-5455</u>

Roles and Responsibilities: SEWER JET WASTEWATER LINES, VACTOR AND DRUM REMOVED LIMESTONE AND SLUDGE.

2.2 Site Specific Health and Safety Personnel

The SHSC for activities to be conducted at this Site is J. HORN

The Site Health and Safety Coordinator (SHSC) has total responsibility for ensuring that the provisions of this Site HASP are adequate and implemented in the field. Changing field conditions may require decisions to be made concerning adequate protection programs. Therefore, the personnel assigned as SHSC's are experienced and meet the additional training requirements specified by OSHA in 29 CFR 1910.120.

Qualifications: J. HORN HAS OVER FOUR YEARS IN OPERATIONAL AND SAFETY MANAGEMENT EXPERIENCE ON ENVIRONMENTAL CLEANUP PROJECTS.

Designated alternatives include: A. J. PRISCO and B. SEWTER.

II. Health and Safety Evaluation

A. Hazard Assessment

1. Background Review: Complete (XX) Partial () If partial, why? _____

2. Activities Covered Under this Plan

No.	Task/Subtask Description	Schedule
1	SEWER JET ENCLEAN WILL SEWER JET INCOMING LINES	DAY ONE
2	OPEN TOP/REMOVE STONE, SLUDGE, HANDLE MATERIALS	DAY TWO
3	ENTER, REPAIR AND CLEAN PIT	DAY 2-3
4	HANDLE DRUMS, BACKFILL PIT	DAY 2-3
5	SHIP WASTE; REPEAT ENTIRE CYCLE FOR SECOND PIT	DAY 16

3. Types of Hazards: (Place a Y/N in each () to indicate presence/absence of hazard)

a. PhysioChemical (Y) Flammable (Y) Explosive (Y) Corrosive
(N) Reactive (Y) O2 Rich (Y) O2 Deficient [1]*

Chemically Toxic (Y) Inhal. (Y) Ingest. (Y) Cont. (Y) Absorb.
(Y) Carcin. (N) Mutagen (N) Terat.
(Y) OSHA 1910.1000 Substance
(Y) OSHA Specific Hazard. Sub. Standard,

Describe _____

b. Biological (N) Etiol. Agent (N) Other - Plant, insect,
animal, [2]*

c. Radiation Ionizing - (N) Internal Exposure (N) External exposure [3]*
Non-Ionizing - (N) UV; (N) IR; (N) RF; (N) Microw; (N) LASER

d. Physical Hazards (Y) [4]* e. Construction Activities (Y) [5]*

*The number in the [] refers to one of the following hazard evaluation forms. Complete hazard evaluation forms for each appropriate Hazard Class.

B. Source/Location of Contaminants and Hazardous Substances

1. Directly Related to Tasks

(Y) Air PIT VENTING _____; (N) Soil _____;
(N) Other Surface _____; (Y) S. Water WASTEWATER _____;
(N) G. Water _____; (Y) Other WASTE HANDLING _____;

2. Indirectly Related to Work - Nearby Process(s) which could affect team members:

() Client Facility; () Nearby Non-client Facility. Describe N/A _____

() Client briefing arranged. _____

[1] Chemical Hazards

[a] Identify and attach Material Safety Data Sheets for all reagent type chemicals, solutions or other materials identified as or which in normal use could produce hazardous substances used in performing tasks related to tasks related to this project. () N/A

[b] Chemical Contaminants of Concern () N/A If present, provide following data.

Hazardous Substance/ Tasks	Physical Properties and Characteristics*	Exposure Limits PEL/TLV**	Route(s) of Exposure***/ Symptoms	Monitoring Instruments IP % response
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NOTE: OVER 40,000 MSDS'S ARE ASSIGNED TO THIS BUILDING. ANALYSIS OF THE CONTENTS OF THE NEUTRALIZATION PIT CONTENTS IS ATTACHED AND MUST BE REVIEWED BY ALL PERSONNEL. THE DISCHARGED WASTEWATER CAN EXHIBIT LOW PH. NO INDUSTRIAL TYPE OPERATIONS ARE SCHEDULED TO BE UNDERWAY DURING THE CLEANING ACTIVITIES. INCOMING LINES WILL BE PLUGGED PRIOR TO ANY ENTRY INTO THE PITS. PH OF MATERIALS IN LINES AND PITS WILL BE MONITORED PERIODICALLY.

WASTEWATER	(*) State LIQUID	INH, ING, CON, ABS		
	Ph - LEL UEL			
	Auto.Ig BP			
	Incompatible with -			
	STRONG OXIDIZERS			
	Sp.Gr Vap.D			
	Vap.P 40MM H2O Sol.			
	Oth.			

LIMESTONE	(*) State			
	Ph FP LEL UEL			
	Auto.Ig BP MP			
	Incompatible with -			
	Sp.Gr Vap.D			
	Vap.P H2O Sol.			
	Oth.			

* E = Explosive, F = Flammable, C = Corrosive, R = Reactive, W = Water reactive, O = Oxide, Ra = Radioactive. State = Normal physical state at site/proj. temp.

** Use lowest of two, if no TLV/PEL, use Toxicity data in following order: Lowest Toxic humans (LTC-HMN), Lowest Lethal Conc. in humans (LLC-HMN), Lowest Toxic Dose in humans, Lowest Lethal Dose in humans (LLD-HMN), LC50 or LD50 in humans, the Lowest Toxic Concern, Lowest Toxic Dose in animals, the lowest LC50 or LD50 in animals.

*** I = Inhalation, G = Ingestion, S = Skin Absorption, C = Contact, D - Direct Penetration

+ IP = Ionization Potential

[2] Biological Hazards of Concern

No.	Hazard	(Y/N)	Task No. (s)*	Location/ Source (K,S)**	Route of Exposure (I,G,C,D)+	Team Member(s) Allergic?	Immunization Required?
1.	Poisonous						
	Plants	()					
2.	Insects	()					
3.	Snakes,						
	Reptiles	()					
4.	Animals	()					
5.	Sewage	()					
6.	Etiologic						
	Agents	() (List)					
	ALL N/A						

*List all task Nos. which would involve potential exposure to these hazard (s).

** K = Known, S = Suspect. +I = Inhalation, G = Ingestion, C = Contact, D = Direct Penetration (Bite, Inject., Open wound or sore)

[3] Radiation Hazards of Concern

TYPE ALL N/A

1. Ionizing

Location/ Source	TYPE EMITTER	TASK NO. (S)	EXPOSURE LIMITS	Protection Protocol REFERENCE
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RadioNuclide

2. Non-ionizing

Location/ Source	TASK NO. (S)	EXPOSURE LIMITS	Protection Protocol REFERENCE
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Ultra violet
Infra Red

Microwave
Radio-Freq.
LASER

[4] Physical Hazards of Concern

	Hazard (Y/N)	TASK No(s).
1. Noise	(Y)	ALL
2. Heat - ambient air	(Y)	ALL
- Hot Process - Steam	(N)	
- Hot Process - LT3	(N)	
- Hot Process - Incin.	(N)	
3. Cold	(Y)	ALL
4. Rain	(Y)	ALL
5. Snow	(N)	
6. Electric Storms	(N)	
7. Confined Space Entry	(Y)	ALL
8. "Hot Work"	(Y)	ALL
9. Heavy Manual Lifting/Moving	(N)	
10. Rough Terrain	(N)	
11. Housekeeping	(N)	
12. Structural Integrity	(N)	
13. Neighborhood	(N)	
14. Remote Area	(N)	
15. Compressed Gases	(Y)	2-4
16. Diving	(N)	
17. Using Boats	(N)	
18. Working Over Water	(N)	
19. Traffic	(N)	
20. Explosives	(N)	
21. Heavy Equipment Operation	(Y)	2, 4, 5
22. Lifting Equipment Operation -Cranes, -Manlifts	(Y)	2
23. Working at Elevation	(N)	
24. Using Ladders	(Y)	1-3
25. Using Scaffolding	(N)	
26. Excavating/Trenching	(N)	
27. Materials Handling	(N)	
28. Haz. Mat. Use /Storage - flam. liq./gases	(N)	
- oxidizers	(N)	
- corrosives	(N)	
29. Fire Prevent/Response plan required	(N)	
30. Fire Extinguishers required	(Y)	ALL
31. Demolition	(N)	
32. Utilities - Underground	(N)	
- Overhead	(N)	
33. Electrical - General	(N)	
- High Voltage	(N)	
34. Welding/cutting/burning	(Y)	ALL
35. Hand Tools	(Y)	ALL
36. Power Hand Tools	(Y)	ALL
37. High Pressure Water	(Y)	1-3
38. Other	()	
39. Other	()	
40. Other	()	

TASK BY TASK RISK ANALYSIS

The preceding Tables identify the hazards known or suspected to be present in accomplishing the tasks involved in this project.

Section II A. 2. of this HASP describes the background of this site/project and identifies the tasks involved.

Below briefly describe each task and the likelihood of exposure to the hazards identified and the protective protocols to be used.

1. SEWER JET INCOMING LINES. ENCLEAN, SUBCONTRACTOR, WILL SEWER JET INCOMING LINES TO THE NEUTRALIZATION PITS UPLINE. HAZARDS INCLUDE HAND/POWER TOOLS, HIGH PRESSURE WATER, CONFINED SPACE ENTRY. RISK REDUCED THROUGH PROPER TOOL USAGE TRAINING, EXPERIENCED SEWER JET OPERATORS AND CONFINED SPACE ENTRY PLAN.
2. OPEN TOP, REMOVE STONE, SLUDGE, HANDLE MATERIALS. ENCLEAN WILL VACTOR STONE AND SLUDGE INTO OPEN TOP DRUMS WHICH WILL BE HANDLED BY DE MANPOWER AND FORKLIFT. VACTOR HOSE OPERATOR WILL ENTER CONFINED SPACE TO REMOVE MATERIAL AS REQUIRED. PROPER VACTOR TRAINING, FORKLIFT OPERATION TRAINING, ADHERENCE TO CSE PERMIT.
3. ENTER, REPAIR AND CLEAN PIT. CONFINED SPACE ENTRY, HAND/POWER TOOL SAFETY, HIGH PRESSURE WATER SAFETY WILL REDUCE RISK.
4. HANDLE DRUMS AND BACKFILL. LIFT AND TRANSPORT DRUMS TO HAZ WASTE STORAGE AREA ON THE BASE. PROPER DRUM HANDLING PROCEDURES, HEAVY EQUIPMENT OPERATION SAFETY.
5. LOAD DRUMS ON TO LICENSED WASTE HAULER WITH FORK TRUCK.

Personnel Protection Plan

A. Engineering Controls

1. Describe Engineering Controls used as part of Personnel Protection Plan:

Task(s)

ALL USE COPPUS BLOWER TO MAINTAIN FRESH AIR IN WORK SPACES

B. Administrative Controls

1. Describe Administrative controls used as a part of Personnel Protection Plan:

Task(s)

ALL SITE CONTROL MEASURES TO LIMIT ACCESS TO WORK AREA BY OTHERS, INCLUDING SIGNAGE AND FENCING

C. Personnel Protective Equipment *

1. Action Levels for Changing Levels of Protection

(1) Task No.(s) Define Action Levels for up or down grade for each task

ALL UPGRADE TO LEVEL B FOR CONFINED SPACE ENTRY OR VENTILATE
TO >19.5% O₂, AND < 5PPM H₂S AND/OR CO, UPGRADE TO C

c. Description of Levels

Task(s)	4,5 Level D		1,2,3 Level D (MODIFIED)	
Head	(X) H HATS	()	(X) H HATS	()
Eye & Face	(X) GLASSES	()	() GLASSES	()
Hearing	(X) PLUGS AS NEEDED	()	() PLUGS	()
Arms & Legs only	()	()	()	()
Whole Body Apron	()	()	()	()
Hand - gloves	(X) WORK	()	(X) LATEX	()
- gloves	()	()	(X) NITRILE	()
- gloves	()	()	()	()
Foot - boots	(X) WORK	()	(X) WORK	()
- boots	()	()	(X) NEOPRENE	()
- boots	()	()	()	()

c. Description of Levels of Protection. (Cont.) Levels C and B

Tasks(s)	<u>1,2,3</u> Level C	<u>1,2,3</u> Level B
Head	(X) _____ () _____	(X) _____ () _____
Eye & Face	() _____ () _____	() _____ () _____
Hearing	(X) _____ () _____	(X) _____ () _____
Arms & Legs only	() _____ () _____	() _____ () _____
Whole Body	(X) POLY TYVEK (X) RAIN SUIT	(X) SARANEX () RAIN SUIT
Apron	() _____ () _____	() _____ () _____
Hand		
-gloves	(X) LATEX () _____	(X) LATEX () _____
-gloves	(X) NITRILE () _____	(X) NITRILE () _____
-gloves	() _____ () _____	() _____ () _____
Foot		
-boots	(X) WORK () _____	(X) WORK () _____
-boots	(X) NEOPRENE (X) LATEX	(X) NEOPRENE (X) LATEX
-boots	(X) BUTYL () _____	(X) BUTYL () _____
APR -		
Neg. Pres	() _____ () _____	() _____ () _____
Half Face	() _____ () _____	() _____ () _____
Cart./ Canister	() _____ () _____	() _____ () _____
Full Face	(X) _____ () _____	() _____ () _____
Cart./ Canister	(X) GMC-H () _____	() _____ () _____
PAPR	() _____ () _____	() _____ () _____
Cart./ Canister Type C	() _____ () _____	() _____ () _____
SAR -Airline	() _____ () _____	() _____ () _____
SCBA	() _____ () _____	() _____ () _____
Comb. Air- line/SCBA	() _____ () _____	(X) _____ () _____
Cascade Syst	() _____ () _____	(X) _____ () _____
Compressor	() _____ () _____	() _____ () _____
Fall Pro- tection	(X) TRIPOD/WINCH () _____	(X) TRIPOD/WINCH () _____
Flotation	() _____ () _____	() _____ () _____
_____	() _____ () _____	() _____ () _____

IV. Site or Project Hazard Monitoring Program

A. Direct Reading Air Monitoring Instruments

1. Instrument Selection & Initial Check Record

	No.	Task No.(s)	Instrument checked upon receipt	Initials
CGI-	()	_____	() _____	_____
O2 -	()	_____	() _____	_____
CGI/O2 -	()	_____	() _____	_____
CGI/O2/tox-PPM,H2S, H2S/CO	(X)	ALL	() _____	_____
RAD-GM,	()	_____	() _____	_____
-NaI	()	_____	() _____	_____
-ZnS	()	_____	() _____	_____
-OTHER _____	()	_____	() _____	_____
PID -HNU 10.2	()	_____	() _____	_____
-HNU 11.7	()	_____	() _____	_____
-HNU 9.5,	()	_____	() _____	_____
-PHOTOVAC,TMA,OTHER	()	_____	() _____	_____
FID -FOX-128	()	_____	() _____	_____
-FOX-128GC	()	_____	() _____	_____
-HEALTH,AID,OTHER _____	()	_____	() _____	_____
RAM, Mini-RAM, OTHER _____	()	_____	() _____	_____
MONITOX-HCN	()	_____	() _____	_____
H2S	()	_____	() _____	_____
CDCL,	()	_____	() _____	_____
SO2,	()	_____	() _____	_____
OTHER _____	()	_____	() _____	_____
Bio Aerosol Monitor	()	_____	() _____	_____
Detector Tubes				
Pump - MSA, Draeger,				
Sensidyne	()	_____	() _____	_____
-Tubes(No.)/type	()	_____	() _____	_____
-Tubes(no.)/type	()	_____	() _____	_____
Reporting Format _____	1.	Field notebook <u>X</u>	2.	Field data sheets. _____
3. Air monitoring _____	4.	Trip report. _____	5.	Other: _____

Site Air Monitoring Program

Air Monitoring Instrument _____ NONE REQUIRED ON THIS SITE.

Air Monitoring Frequency	Tasks
_____ 1. Periodically _____	_____
_____ 2. Periodically _____	_____
_____ 3. Continuous _____	_____
_____ 4. Other: _____	_____

Monitoring Locations	Tasks
_____ 1. Upwind/downwind of site activities.	_____
_____ 2. Near residents, etc.	_____
_____ 3. Key site activity locations:	_____
_____ decon area	_____
_____ staging area	_____
_____ excavation area	_____
_____ field lab area	_____
_____ storage tanks	_____
_____ lagoons	_____
_____ drums	_____
_____ 4. Fixed Stations	_____
_____ 5. Other	_____

Air Monitoring Frequency	Tasks
_____ 1. Periodically _____	_____
_____ 2. Periodically _____	_____
_____ 3. Continuous _____	_____
_____ 4. Other: _____	_____

Monitoring Locations	Tasks
_____ 1. Upwind/downwind of site activities.	_____
_____ 2. Near residents, etc.	_____
_____ 3. Key site activity locations:	_____
_____ decon area	_____
_____ staging area	_____
_____ excavation area	_____
_____ field lab area	_____
_____ storage tanks	_____
_____ lagoons	_____
_____ Drums	_____
_____ 4. Fixed stations	_____
_____ 5. Other: _____	_____

D. Action Levels

XX 1. Explosive atmosphere:

Action Level
<10% LEL
10%-25% LEL

>25% LEL

Tasks 1-4

Action
Continue investigation
Continue on-site monitoring with
extreme caution as higher levels
are encountered.
Explosion hazard.
Withdraw from area immediately.

XX 2. Oxygen:

Action Level
<19.5%

19.5%-25%

>25%

Tasks 3, 4

Action
Monitor wearing SCBA.
NOTE: Combustible gas readings may not
be valid in atmospheres with <19.5% oxygen.
Continue investigation with caution, as
Oxygen levels > 21% require extreme caution.
Other than normal level may be due to presence
of other substances.
Fire hazard potential. Stop work and
consult a fire safety specialist.

N/A 3. Radiation:

Action Level

3 X Bkg - <2 Mr/hr

> 2 mrem/hr

Tasks _____

Action
Radiation above background levels (normally
0.01-0.02 Mr/hr) signifies possible source(s)
radiation present.

Continue investigation with caution. Perform
thorough monitoring. Consult with a health
physicist.

Potential radiation hazard. Evacuate site.
Continue investigation only upon the advice of
a health physicist.

N/A 4. Organic gases and vapors:

XX 5. Inorganic gases and vapors: UPGRADE TO LEVEL B @ 5 PPM CO/H₂S

Action Level

Depends on
Chemical

Action

Consult standard reference manuals for
air concentration/toxicity data. Action
level depends on PEL/REL/TLV.

These Action Levels, if not defined by regulation, is some percent (usually 50%) of the
applicable PEL/REL/TLV. That number must also be adjusted to account for instrument
response factors.

Ambient Air Sampling - Decision Logic and action levels to institute Air Sampling

XX No air sampling is required on this site.

 An air sampling plan is incorporated in this HASP.

Check situations which will require or action levels which will apply to deciding to institute or increase scope of planned air sampling.

Meteorological conditions:

- a. Dry weather for days. b. ambient temperature above F.
 c. Wind increasing potential of more contaminant dispersion in or migration out of controlled area.

Activities which will require instituting or increasing scope of air sampling:

- a. major spills
 b. new site activity resulting in potential presence of new chemical hazards.
 c. site activity increases airborne contaminants possibilities.
 d. Air sampling documentation required for:
 Downgrading from stipulated level of protection.
 Documenting no migration of contaminants off site through air

Applicable Action Levels for instituting Air Sampling: (Check as Appropriate)

- a. Visible vapor/gas clouds or vapors levels, or b. Visible dust or particulate levels measured with Direct Reading Instrument, two-three times background or above action level, sustained over 10-15 minute period.

- 1) Sampling Matrix/
 air interface - Monitor matrix/air interface and breathing zone periodically with DRI, if Vapor levels > 2-3 times background, monitor continuously, follow No. 4.
2) Container opening - Monitor opening and breathing zone periodically with DRI, if Vapor levels > 2-3 times background, monitor opening and breathing zone continuously, follow No. 4.
3) Excavation/Drilling/
 Intrusive work - Monitor at ground level and breathing zone periodically with DRI, if Vapor levels > 2-3 times background, monitor opening and breathing zone continuously, follow No. 4.
4) Breathing zone - Ensure level of protection specified in HASP is being used. Consult HASP or Corporate Health and Safety relative to instituting personnel, area or perimeter Sampling.

Other:

B. Sample Location

		Substances Sampled for
_____	1. Ambient background - Locations:	
	a. _____	_____
	b. _____	_____
_____	2. Personal samples, onsite - Locations:	
	a. _____	_____
	b. _____	_____
	c. _____	_____
	d. _____	_____
	e. _____	_____
	f. _____	_____
_____	3. Personal samples, offsite - Locations:	
	a. _____	_____
	b. _____	_____
	c. _____	_____
	d. _____	_____
_____	4. Fixed onsite samples - Locations:	
	a. _____	_____
	b. _____	_____
	c. _____	_____
	d. _____	_____
	e. _____	_____
	f. _____	_____
_____	5. Fixed offsite samples - Locations:	
	a. _____	_____
	b. _____	_____
	c. _____	_____
	d. _____	_____
	e. _____	_____
_____	6. Mobile offsite samples - Locations:	
	a. _____	_____
	b. _____	_____
	c. _____	_____
_____	7. Mobile onsite samples - Locations:	
	a. _____	_____
	b. _____	_____
	c. _____	_____
_____	8. Background sample stations - Locations:	
	a. _____	_____
	b. _____	_____
	c. _____	_____

B. Air Sampling

1. Personal Sampling Pumps - Gilian; SKC, MSA No. () _____

Sampling Media - Sorbent Tubes

Task(s)	Location	Duration	Frequency	Type	Anal. Meth
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Sampling Media - Filter

Task(s)	Location	Duration	Frequency	Type	Anal. Meth
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Sampling Media - Impinger

Task(s)	Location	Duration	Frequency	Type	Anal. Meth
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Sampling Media - Air Bag

Task(s)	Location	Duration	Frequency	Type	Anal. Meth
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

B. Air Sampling

2. Hi-Volume Pumps

Sampling Media - Filter

Task(s)	Location	Duration	Frequency	Type	Anal. Meth

3. PORTABLE GAS CHROMATOGRAPH Task(S) _____ Type _____

Portable GC Analytical Plan: _____

4. Passive Dosimeters

		TASK(S)	TYPE	LOCATION	FREQUENCY	DURATION
Organic Vapor	()					
Mercury Vapor	()					
Paper Color Change	()					
TLD	()					
Film Badge	()					
Liquid Media	()					

5. WIPE SAMPLING

1. Wipe Sampling Plan _____

C. Physical Hazard and Miscellaneous Monitors and Detectors

	TASK(S)	CALIBRATION RQD? METHOD	Location	Frequency
SOUND LEVEL METER	() _____ () _____	_____	_____	_____
NOISE DOSIMETER(S)	() _____ () _____	_____	_____	_____
OCTAVE BAND ANALYZER	() _____ () _____	_____	_____	_____
LIGHT METER	() _____ () _____	_____	_____	_____
ELECTRIC CIRC. DETECTOR	() _____ () _____	_____	_____	_____
Thermometer	() _____ () _____	_____	_____	_____
Wind Speed Indic.	() _____ () _____	_____	_____	_____
Barometer	() _____ () _____	_____	_____	_____
Psychrometer	() _____ () _____	_____	_____	_____
Infra Red Thermom.	() _____ () _____	_____	_____	_____
MicroWave Detector	() _____ () _____	_____	_____	_____
Ph METER	() _____ () _____	_____	_____	_____

D. Indicator Kits

	TASK(S) 2,3	LOCATION	FREQUENCY
Ph PAPER	(X) _____	_____	_____
PEROXIDE PAPER	() _____	_____	_____
CHLOR-N-OIL KIT	() _____	_____	_____
HAZARD CATEGORIZING KIT	() _____	_____	_____
ASBESTOS KIT	() _____	_____	_____

G. Work Location Instrument Readings

Location _____

% LEL _____; %O2 _____; PID ppm _____

FID ppm _____ Aerosol Monitor mg/M3 _____

GM: Shield Probe/Thin Window - mR/hr _____; cpm _____

NaI _____ uR/hr; ZnS _____ cpm

(Monitox) ppm: () _____; () _____

() _____; () _____

(Detector Tube)(s): () _____; () _____

() _____; () _____

Sound Levels _____ dBA; _____ dBA; _____ dBA; _____ dBA; _____ dBA; _____ dBA; _____ dBA;

Illumination _____ pH _____ Other _____ Other _____

Location _____

% LEL _____; %O2 _____; PID ppm _____

FID ppm _____ Aerosol Monitor mg/M3 _____

GM: Shield Probe/Thin Window - mR/hr _____; cpm _____

NaI _____ uR/hr; ZnS _____ cpm

(Monitox) ppm: () _____; () _____

() _____; () _____

(Detector Tube)(s): () _____; () _____

() _____; () _____

Sound Levels _____ dBA; _____ dBA; _____ dBA; _____ dBA; _____ dBA; _____ dBA; _____ dBA;
_____ dBA;

Illumination _____ pH _____ Other _____ Other _____
Other _____

IV. DECONTAMINATION PLAN

1. Personnel Decontamination

Section III C. lists the tasks and specific levels of protection required for each. Consistent with the levels of protection required, step by step procedures for personnel decontamination for each Level of Protection are attached.

2. Levels of Protection Required for Decontamination Personnel

The levels of protection required for personnel assisting with decontamination will be [____ Level B, ____ Level C, X Level D].
(CHECK) Modifications include: IF LEVEL B REQUIRED, DECON PERSONNEL WILL SUIT OUT IN LEVEL B, AIR EQUIPMENT ON STANDBY.

4. Equipment Decontamination

A procedure for decontamination steps required for non-sampling equipment and heavy machinery follows: WASH WITH WATER AND DETERGENT

5. Sampling Equipment Decontamination

Sampling equipment will be decontaminated in accordance with the following procedure:
FOLLOW NJDEPE FIELD SAMPLING PROCEDURES (MAY, 1992)

3. Disposition of Decontamination Wastes

(Provide a description of waste disposition including identification of storage area, hauler, and final disposal site if applicable.)

MIX DECONTAMINATION WASTES WITH OTHER WASTE LIQUIDS FOR DISPOSAL

V. Contingencies

A. Emergency Contacts and Phone Numbers

Agency	Contact	Phone Number
Local Medical Emergency Facility		911
Medical Emergency Contact		
Health and Safety		
Fire Department		911
Police Department		911
On Site Coordinator	CHARLES APPLEBY	(908) 532 - 6224
Site Telephone	MOBILE HAND HELD	(609) 870 - 8687
Nearest Telephone	MOBILE A J PRISCO	(609) 330 - 5458
	(Location)	

B. LOCAL MEDICAL EMERGENCY FACILITY(S)

1. Primary

Name of Hospital BASE HOSPITAL BLDG NO. 1075
FT MONMOUTH NJ Phone No. 911

Name of Contact: N/A Phone No. 911

Type of Service - Physical Trauma only () Chemical Exposure only ()
Physical Trauma & Chemical Exposure (X) Available 24 Hours (X)

Route to Hospital: (Attach Map) _____ ALL MEDICAL/CONTAMINATION INCIDENTS ARE TO BE ROUTED THROUGH THE BASE 911 SYSTEM. RESPONSE TO MEDICAL EMERGENCY WILL BE HANDLED BY BASE MEDICAL PERSONNEL. DECONTAMINATION INCIDENTS WILL BE HANDLED BY BASE FIRE DEPT-HAZMAT RESPONSE TEAM.

Travel Time Distance to Name/No. of 24 Hr. Ambulance
From Site (Minutes) _____ Hospital (Miles) _____ Service _____

2. Secondary or Specialty Services Provider

Name of Hospital _____

Address: _____ Phone No. _____

Name of Contact: _____ Phone No. _____

Type of Service - Physical Trauma only () Chemical Exposure only ()
Physical Trauma & Chemical Exposure () Available 24 Hours ()

Route to Hospital: (Attach Map) _____

Travel Time Distance to Name/No. of 24 Hr. Ambulance
From Site (Minutes) Hospital (Miles) Service _____

V. Contingencies (Continued)

C. Response Plans

1. Medical - General

TREAT AND STABILIZE WITH FIRST AID ON-SITE;
AWAIT BASE PERSONNEL.

a. First Aid Kit - Type Location
STD SUPPORT

b. Eyewash required (Y) Y/N

Location Location
CRZ

3. Plan for Response to Fire/Explosion

NOTIFY FIRE BASE DEPT/DE PROJECT MANAGER
SECURE ANY FLAMMABLES/FUEL SOURCES
SECURE AFFECTED AREA, EVACUATE AREA

5. Plan for Response to Spill/Release

DIKE AND BERM ALL SPILLS, SECURE AREA,
RESPOND ONLY TO SPILLS OF MATERIALS
INCLUDED IN THIS HASP. REPORT ALL SPILLS
TO NJDEPE HOTLINE (609) 292 - 7172 AND
DOOLAN AND BASE FIRE DEPT AND BASE DEH.

6. Plan for Response to Security Problems ALL WORK PERFORMED ON POST IS SECURED BY
US ARMY PERSONNEL

2. Special First Aid Procedures

Hydrofluoride on site (N) Y/N

a. Attach HF procedure and
ensure solution is on site.

Cyanides on site (N) Y/N

b. Confirm that Local Med.
Emerg. Facility has
antidote kit.

c. _____

4. Fire Extinguisher

a. Type	b. Location
ABC	WORK
ABC	CRZ
_____	_____
_____	_____
_____	_____

6. Spill Response Gear

Description	Location
PADS	CRZ
POLY	CRZ
SPEEDI DRI	SUPPORT
_____	_____
_____	_____
_____	_____

VI. Site Personnel and Certification Status

Name	Title	Task(s)	Medical Current	Fit Test Current Qual.Quant.	Training Current	Certification Level or Description
			a.	b. b.		
1. J. HORN	FT/SHSC		(X)	(X) ()	(X)	(SAFETY - B
2. A. DEVLIN	FT		(X)	(X) ()	(X)	(LEVEL B
3. D. GUINTO	FT		(X)	(X) ()	(X)	(LEVEL B
4. E. HUJBER	EO		(X)	(X) ()	(X)	(LEVEL B
5. A.J. PRISCO	SC/SHSC		(X)	(X) ()	(X)	(SAFETY - B
6. B.R. SEWTER	FT/SHSC		(X)	(X) ()	(X)	(SAFETY - B
7. R. E. ROBERTSON	FT		(X)	(X) ()	(X)	(LEVEL B
8. V. VITTORINO	FT		(X)	(X) ()	(X)	(SAFETY B
9.			()	() ()	()	(
10.			()	() ()	()	(
11.			()	() ()	()	(
12.			()	() ()	()	(
Site Health and Safety Coordinator (SHSC)						
14.			()	() ()	()	(

(a) Training - All personnel, including visitors, entering the exclusion or contamination reduction zones must have certifications of completion of training in accordance with OSHA 29 CFR 1910.29, CFR 1926/1910 or 29 CFR 1910.120.

(b) Respirator Fit Testing - All persons, including visitors, entering any area requiring the use or potential use of any negative pressure respirator must have had as a minimum, a qualitative fit test, administered in accordance with OSHA 29 CFR 1910.134 or ANSI within the last 12 months. If site conditions require the use of a full face negative pressure, air purifying respirator for protection from Asbestos or lead, employees must have had a Quantitative fit test, administered according to OSHA 29 CFR 1910.1002 or 1025 within the last 6 months.

(c) Medical Monitoring Requirements - All personnel, including visitors, entering the exclusion or contamination reduction zones must be certified as medically fit to work, and to wear a respirator, appropriate, in accordance with 29 CFR 1910, 29 CFR 1926/1910 or 29 CFR 1910.120.

The Site Health and Safety Coordinator is responsible for verifying all certificates and fit tests.

B. Subcontractor's Health and Safety Program Evaluation

Name and address of subcontractor: ENCLEAN, RD1 BOX 23C, WEDESBORO, NJ 08085
P: 609-467-5455

Activities to be conducted by subcontractor: SEWER JET LINES TO PITS, VACTOR SLUDGE AND STONE FROM PITS AND DISCHARGE TO DRUMS

EVALUATION CRITERIA			
Item	Acceptable	Unacceptable	Comments
Medical Program meets OSHA Criteria ()	()	()	
Personal Protective Equipment Available:	()	()	
a. meets OSHA criteria,	()	()	
b. is as specified in WLHASP	()	()	
On-Site Monitoring Equipment Available, Calibrated and Operated Properly	()	()	
Safe Working Procedures Clearly Specified	()	()	
Training meets OSHA criteria	()	()	
Emergency Procedures	()	()	
Decontamination Procedures	()	()	
General Health and Safety Program Evaluation	()	()	

Additional Comments: SUB WILL FOLLOW DOOLAN
HASP

Evaluation conducted by: J. HORN Date: 10/8/92

C. Subcontractor ENCLEAN

Name	Title	Task(s)	Current MEDICAL	Current Qual.Quant.	Current TRAINING	Level or Description
<u>C.</u>			<u>a.</u>	<u>b.</u> <u>b.</u>		
<u>1. T. DALE</u>			(X)	(X) ()	(X)	(LEVEL B
<u>2. K. HEIL</u>			(X)	(X) ()	(X)	(LEVEL B
<u>3. J. SUMEIL</u>			(X)	(X) ()	(X)	(LEVEL B
<u>4.</u>			()	() ()	()	(
<u>5.</u>			()	() ()	()	(
<u>6.</u>			()	() ()	()	(
<u>7.</u>			()	() ()	()	(

VII. HEALTH AND SAFETY PLAN APPROVAL/SIGN OFF FORMAT

1. Site Name FT MONMOUTH/NEUT PITS 2. WO# 501-152

Work Location Address BLDG 2700 FT MONMOUTH NJ
(Street Address) (City) (State) (Zip)

I have read, understood, and agreed with the information set forth in this Health and Safety Plan (and attachments) and discussed in the Personnel Health and Safety briefing.

<u>Thomas J. Priore</u> Site Safety Co-ordinator	<u>[Signature]</u> Signature	<u>10/9/92</u> Date
<u>ANDREW L. DEVLIN</u> Name	<u>[Signature]</u> Signature	<u>10/9/92</u> Date
<u>DOMINIC GUINTA</u> Name	<u>[Signature]</u> Signature	<u>10/9/92</u> Date
<u>JOHN SUMIEL</u> Name	<u>[Signature]</u> Signature	<u>10/9/92</u> Date
<u>THOMAS DAK</u> Name	<u>[Signature]</u> Signature	<u>10/9/92</u> Date
<u>TIM L. ETZLER</u> Name	<u>[Signature]</u> Signature	<u>10/9/92</u> Date
<u>GEORGE E. BLOOMBOUR</u> Name	<u>[Signature]</u> Signature	<u>10/9/92</u> Date
_____ Name	_____ Signature	_____ Date
_____ Name	_____ Signature	_____ Date
_____ Name	_____ Signature	_____ Date
_____ Name	_____ Signature	_____ Date
_____ Name	_____ Signature	_____ Date
_____ Name	_____ Signature	_____ Date
_____ Name	_____ Signature	_____ Date
_____ Name	_____ Signature	_____ Date
_____ Name	_____ Signature	_____ Date
_____ Name	_____ Signature	_____ Date
_____ Name	_____ Signature	_____ Date

VIII. Training and Briefing Topics

The following items will be covered at the site specific training meeting, daily or periodically.

<u>Site Specific Training Meeting</u>	<u>Daily</u>	<u>Periodically</u>	
<u>X</u>		<u>X</u>	Site characterization and analysis, Sec. 3.0; 29 CFR 1910.120 i.
<u>X</u>		<u>X</u>	Physical hazards, Table 3.2.
<u>X</u>		<u>X</u>	Chemical hazards, Table 3.1.
			Animal bites, stings and poisonous plants.
			Etiologic (Infectious) Agents.
<u>X</u>		<u>X</u>	Site control, Sec. 8.0; 29 CFR 1910.120 d.
<u>X</u>			Engineering controls and work practices, Sec. 8.5; 29 CFR 1910.120 g.
			Heavy Machinery.
<u>X</u>		<u>X</u>	Forklift
<u>X</u>		<u>X</u>	Backhoe
<u>X</u>		<u>X</u>	Equipment
<u>X</u>		<u>X</u>	Tools
<u>X</u>		<u>X</u>	Ladder 29 CFR 1910.27 d.
			Overhead and Underground Utilities
			Scaffolds
			Structural Integrity
<u>X</u>		<u>X</u>	Unguarded Openings-wall, Floor, Ceilings(?).
<u>X</u>		<u>X</u>	Pressurized Air Cylinders
<u>X</u>	<u>X</u>	<u>X</u>	Personnel Protective Equipment, Sec. 5.0; 29 CFR 1910.120 g; 29 CFR 1910.134

Site Specific Training Meeting	Daily	Periodically	
<u>X</u> g;		<u>X</u>	Respiratory Protection Sec. 5.8; 29 CFR 1910.120 z88.2-1980
			Level A
<u>X</u>		<u>X</u>	Level B
<u>X</u>	<u>X</u>		Level C
<u>X</u>		<u>X</u>	Level D
<u>X</u>		<u>X</u>	Monitoring, Sec. 7.0; 29 CFR 1910.120 h.
<u>X</u>		<u>X</u>	Decontamination, Sec. 9.0; 29 CFR 1910.120 k.
<u>X</u>			Emergency Response, Sec. 10.0; 29 CFR 1910.120
			Elements of an Emergency Response, Sec. 100; 29 CFR 1910.120 l.
			Procedures for Handling Site Emergencies Sec. 10.0; 29 CFR 1910.120 l.
			Off Site Emergency Response, 29 CFR 1910.120 l.
<u>X</u>			Handling Drums and Containers, 29 CFR 1910.120
			Opening Drums and Containers
			Electrical Material Handling Equipment.
			Radioactive Waste.
			Shock Sensitive Waste.
			Laboratory Waste Packs.
			Sampling Drums and Containers.
			Shipping and Transport, 49 CFR 172.101
			Tank and Vault Procedures.
<u>X</u>			Illumination, 29 CFR 1910.120 m.
			Sanitation, 29 CFR 1910.120 n.

Attachment 1. PERSONNEL DECONTAMINATION ALL LEVELS OF PROTECTION
[Check indicated Functions or add steps as necessary]

STEP	FUNCTION	DESCRIPTION OF PROCESS, SOLUTION AND CONTAINER
(X)	Segregated equipment drop	
(X)	Boot cover and glove wash	H2O/DETERGENT
()	Boot cover and glove rinse	H2O
(X)	Tape removal - outer glove and boot	DISPOSE
(X)	Boot cover removal	" "
(X)	Outer glove removal	" "
(X)	Suit/safety boot wash	HOT-LINE DRY DECON / DISPOSE
(X)	Suit/boot/glove/rinse	" "
(X)	Safety boot removal	" "
(x)	Suit removal	" "
(x)	Inner glove wash	" "
(x)	Inner glove rinse	" "
(x)	Inner glove removal	" "
(X)	Inner clothing removal	" "
()	Field wash	CRZ/SAFE ZONE BOUNDARY
()	Redress	
DISPOSAL PLAN:		
END OF DAY: _____		
END OF WEEK: _____		
END OF PROJECT: ALL PPE TO BE DISPOSED OF WITH OTHER WASTES AT THE END OF THE PROJECT.		

Attachment 2. LEVEL C DECONTAMINATION
[Check indicated Functions or add steps as necessary]

STEP	FUNCTION	DESCRIPTION OF PROCESS, SOLUTION AND CONTAINER
()	Segregated equipment drop	_____
()	Boot cover and glove wash	_____
()	Boot cover and glove rinse	_____
()	Tape removal - outer glove/boot	_____
()	Boot cover removal	_____
()	Outer glove removal	_____
-----HOT-LINE-----		
()	Suit/safety boot wash	_____
()	Suit/boot/glove rinse	_____
()	Safety boot removal	_____
()	Suit removal	_____
()	Inner glove wash	_____
()	Inner glove rinse	_____
()	Face piece removal	_____
()	Inner glove removal	_____
()	Inner clothing removal	_____
-----CRZ/SAFE ZONE BOUNDARY-----		
()	Field wash	_____
()	Redress	_____

DISPOSAL PLAN:

END OF DAY: _____

END OF WEEK: _____

END OF PROJECT: _____

Attachment 3. LEVEL B DECONTAMINATION

[Check indicated Functions or add steps as necessary]

STEP	FUNCTION	DESCRIPTION OF PROCESS, SOLUTION AND CONTAINER
()	Segregated equipment drop	_____
()	Boot cover and glove wash	_____
()	Boot cover and glove rinse	_____
()	Tape removal - outer glove/boot	_____
()	Boot cover removal	_____
()	Outer glove removal	_____
-----HOT-LINE-----		
()	Suit/safety boot wash	_____
()	Suit/SCBA/boot/glove rinse	_____
()	Safety boot removal	_____
()	Remove SCBA backpack w/o disconnecting	_____
()	Splash suit removal	_____
()	Inner glove wash	_____
()	Inner glove rinse	_____
()	SCBA Disconnect & Face piece removal	_____
()	Inner glove removal	_____
()	Inner clothing removal	_____
-----CRZ/SAFE ZONE BOUNDARY-----		
()	Field wash	_____
()	Redress	_____
DISPOSAL PLAN:		
END OF DAY: _____		
END OF WEEK: _____		
END OF PROJECT: _____		

Accredited Laboratories, Inc.

Foot of Pershing Avenue, P.O. Box 369
 Carlisle, New Jersey 07008-0369
 Telephone: (908) 541-2025



CHAIN OF CUSTODY FORM

Page 1 of 1

Client: E-Systech/SAE Project: _____
 Address: FL-Monmouth Contact: B. McKee
 City: _____ Phone: 532-6147
 P.O. Number RZ-1980 State, Zip: NJ Fax: 542-5994

** M = Matrix (A) = Aqueous (S) = Soil (G) = Sludge (P) = Potable Water (O) = Oil
 (F) = Filter (K) = Solid (X) = Other

* C = No. Containers

Deliverables (circle one): STD Reduced Regulatory ECRA CLP I CLP II

Turnaround: _____
 (if blank, std applies)

ALI Sample No.	Field ID	C*	M**	Date/Time SAMPLED	Sample Description	Analyses
9204314	<u>C92-279</u> <u>inside</u>	<u>1</u>	<u>G</u>	<u>6-23/1630</u>	<u>Neutralization Pit in Yard</u>	<u>TEL P w/o Pest Herb</u> ^{P.Y.H.}
9204315	<u>C92-280</u> <u>By Tower</u>	<u>1</u>	<u>G</u>	<u>6-23/1700</u>	<u>Neutralization Pit By Tower</u>	<u>TEL P w/o Pest Herb</u> ^{P.Y.H.}

Person(s) Assuming Responsibility for Sampling: Print B. McKee Sign B. McKee

Relinquished By: print	Relinquished By: sign	Received By: print	Received By: sign	Organization	Date	Time	Reason
<u>B. McKee</u>	<u>B. McKee</u>	<u>D. Murodack</u>	<u>D. Murodack</u>	<u>ALI</u>	<u>6/24/92</u>	<u>11:45 AM</u>	<u>Pick Up</u>
<u>D. Murodack</u>	<u>D. Murodack</u>	<u>L. Simko</u>	<u>L. Simko</u>	<u>ALI</u>	<u>6/24/92</u>	<u>1:00 PM</u>	<u>Analytical</u>

Comments: Do Not Bind Report

ALI CASE NO. C-241

CASE NUMBER
SAMPLE NUMBER
DATA FILE
CLIENT NAME
FIELD ID

241
9204314
907314
EST
C92-879 Inside

MATRIX
DILUTION FACTOR
DATE EXTRACTED
DATE ANALYZED
ANALYZED BY

Leachate
5.00
07/02/92
LARRY

COMPOUND	µG/L	MDL
Benzene	7(J)	25
2-Butanone	U	50
Carbon Tetrachloride	U	25
Chlorobenzene	U	25
Chloroform	5(J)	25
1,1-Dichloroethene	U	25
1,2-Dichloroethane	U	25
Tetrachloroethene	U	25
Trichloroethene	16(J)	25
Vinyl Chloride	166	50

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethene-d4	100.7 %	76 - 114	OK
Toluene-d8	93.1 %	88 - 110	OK
Bromofluorobenzene	88.8 %	86 - 115	OK

- (J) Indicates detected below MDL
 (U) Indicates compound analysed for but not detected
 (R) Indicates analyte found in both the blank and sample
 (D) Indicates a secondary dilution
 * The concentration of each compound was calculated based on TCLP spike recoveries.

ACCREDITED LABORATORIES, INC
TCLP/ORGANIC ANALYSIS DATA

Pit #1

CASE NUMBER 241
SAMPLE NUMBER 9204314
DATA FILE >F2661
CLIENT NAME FBI
FIELD ID C92-879 INSIDE

MATRIX Leachate
DILUTION FACTOR 10.00
DATE EXTRACTED 06/29/92
DATE ANALYZED 06/29/92
ANALYZED BY JOHN

Cas #	COMPOUND	UG/L	MDL
910487	2-Methylphenol	U	100
108394	3-Methylphenol	U	100
1064410	4-Methylphenol	U	100
106467	1,4-Dichlorobenzene	U	100
67721	Hexachloroethane	U	100
989103	Nitrobenzene	U	100
87683	Hexachlorobutadiene	U	100
88062	2,4,6-Trichlorophenol	U	100
9109104	2,4,5-Trichlorophenol	U	500
878610	Pentachlorophenol	U	100
121142	2,4-Dinitrotoluene	U	100
118741	Hexachlorobenzene	U	100
110861	Pyridine	U	100

* 2-Methylphenol = p-cresol.

* 3-Methylphenol = m-cresol.

* 4-Methylphenol = p-cresol.

* The concentration of each compound was calculated based on TCLP spike recoveries.

SURROGATE COMPOUND	RECOVERY	LIMITS	STATUS
2-Fluorophenol	33.8 %	21 - 100	OK
Phenol-d8	36.8 %	10 - 94	OK
Nitrobenzene-d5	30.7 %	33 - 114	OK
2-Fluorobiphenyl	42.8 %	43 - 116	OUT
2,4,6-Tribromophenol	43.8 %	10 - 123	OK
Terphenyl-d14	42.9 %	33 - 141	OK

(J) Indicates detected below MDL

(B) Indicates analyte found in both the blank and sample

(U) Indicates compound analyzed for but not detected

(D) Indicates a secondary dilution

** 3-Methylphenol and 4-methylphenol can not be separated by the method applied.

Pit # 1

Accredited Laboratories, Inc.
TCLP Metals

Case No.: 241
Sample No.: 9204314
Field ID: C92-879 INSIDE
Client: ESI

Matrix: Extract
Date Received: 06/24/92
Date Extracted: 06/26/92
Date Digested: 06/30/92
(Hg): 07/01/92

Parameters	Results ug/L	MDL ug/L	Date of Analysis
Arsenic	ND	1000	07/08/92
Barium	2620	500	07/06/92
Cadmium	63	30	07/06/92
Chromium	60	30	07/06/92
Lead	1930	300	07/06/92
Mercury	6.67	1.00	07/02/92
Selenium	ND	500	07/06/92
Silver	ND	30	07/07/92

Quality Control Number(s): 920612T1
920701HT

* Analytical results corrected, based on sample matrix
spike recoveries.

ACCREDITED LABORATORIES, INC
TCLP/BNA ORGANIC ANALYSIS DATA

CASE NUMBER 241
SAMPLE NUMBER 9204315
DATA FILE >F2662
CLIENT NAME ESI
FIELD ID 622-880 BY TOWER

MATRIX _____
DILUTION FACTOR 10.00
DATE EXTRACTED 06/29/92
DATE ANALYZED 06/30/92
ANALYZED BY JOHN

Leachate

Cas #	COMPOUND	UG/L	MDL
910487	2-Methylphenol	U	100
108394	3-Methylphenol	U	100
1064410	4-Methylphenol	U	100
106467	1,4-Dichlorobenzene	U	100
67721	Hexachloroethane	U	100
989103	Nitrobenzene	U	100
87683	Hexachlorobutadiene	U	100
88062	2,4,6-Trichlorophenol	U	100
9109104	2,4,5-Trichlorophenol	U	500
878610	Pentachlorophenol	U	100
121142	2,4-Dinitrotoluene	U	100
118741	Hexachlorobenzene	U	100
110861	Pyridine	U	100

* 2-Methylphenol = o-cresol.

* 3-Methylphenol = m-cresol.

* 4-Methylphenol = p-cresol.

* The concentration of each compound was calculated based on TCLP spike recoveries.

SUBSTITUTE COMPOUND	RECOVERY	LIMITS	STATUS
3-Fluorophenol	31.4 %	21 - 100	OK
Phenol-d5	34.8 %	10 - 94	OK
Nitrobenzene-d5	18.4 %	35 - 114	OUT
2-Fluorobiphenyl	45.1 %	43 - 116	OK
2,4,6-Trifluorophenol	40.3 %	10 - 123	OK
Terphenyl-d14	49.2 %	33 - 141	OK

(J) Indicates detected below MDL

(B) Indicates analyte found in both the blank and sample

(U) Indicates compound analyzed for but not detected

(D) Indicates a secondary dilution

** 3-Methylphenol and 4-methylphenol can not be separated by the method applied.

TCLP/VO ANALYSIS DATA

CASE NUMBER
SAMPLE NUMBER
DATA FILE
CLIENT NAME
FIELD ID

241
9204315
07315
ESI
C92-BB0 By Tower

MATRIX
DILUTION FACTOR
DATE EXTRACTED
DATE ANALYZED
ANALYZED BY

Lead
5.00
07/02/97
LARRY

COMPOUND	UG/L	MDL
Benzene	24(J)	25
2-Butanone	U	50
Carbon Tetrachloride	U	25
Chlorobenzene	U	25
Chloroform	16(J)	25
1,1-Dichloroethene	U	25
1,2-Dichloroethane	U	25
Tetrachloroethene	U	25
Trichloroethene	U	25
Vinyl Chloride	U	50

<u>SURROGATE COMPOUNDS</u>	<u>RECOVERY</u>	<u>LIMITS</u>	<u>STATUS</u>
1,2-Dichloroethane-d4	108.7 %	76 - 114	OK
Toluene-d8	93.1 %	88 - 110	OK
Bromofluorobenzene	95.3 %	86 - 115	OK

(J) Indicates detected below MDL

(U) Indicates compound analysed for but not detected

(B) Indicates analyte found in both the blank and sample

(D) Indicates a secondary dilution

* The concentration of each compound was calculated based on TCLP spike recoveries.

Accredited Laboratories, Inc.
TCLP Metals

Case No.: 241
Sample No.: 9204315
Field ID: C92-880 BY TOWER
Client: ESI

Matrix: Extract
Date Received: 06/24/92
Date Extracted: 06/25/92
Date Digested: 06/30/92
(Hg): 07/01/92

Parameters	Results ug/L	MDL ug/L	Date of Analysis
Arsenic	ND	1000	07/08/92
Barium	1040	500	07/06/92
Cadmium	ND	30	07/06/92
Chromium	ND	30	07/06/92
Lead	ND	300	07/06/92
Mercury	3.81	1.00	07/02/92
Selenium	ND	500	07/06/92
Silver	120	30	07/07/92

Quality Control Number(s): 920612T1
920701HT

* Analytical results corrected, based on sample matrix
spike recoveries,

Material Safety Data Sheet

Crushed Stone/Screenings

Quick Identifier
Common Name (Used on label and list)

SECTION 1

Manufacturer's Name New Hope Crushed Stone & Lime Co.

Emergency Telephone No. 215-862-5288

Address Phillips Mill Rd. - P. O. Box #248

Other Information
Calls

City, State, and Zip New Hope, PA 18938

Date Prepared 2/14/89

Signature of Person Responsible for Preparation (Optional) *David Thomas*

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	% (optional)	CAS NO.
Calcium (CA)		5Mg/M ³	(Dust)	20-35%	7440-70-2
Silica (SiO ₂)		0.7Mg/M ³	(Dust)	5-15%	7631-76-9
Magnesium (Mg)		2Mg/M ³	(Dust)	30-40%	7439-95-4
Iron Oxide (Fe ₂ O ₃)		5Mg/M ³	(Dust)	0-5%	1309-37-1
Aluminum Oxide (Al ₂ O ₃)		10Mg/M ³	(Dust)	0-5%	1344-28-1

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	Not Applicable (N/A)	Specific Gravity (H ₂ O=1)	2.7	Vapor Pressure (mm Hg)	N/A
Solubility in Water	Very Slight < 1 G/L	Vapor Density (Air = 1)	N/A	Reactivity in Water	None
Appearance and Color	Blue-Gray to Brown to Off-White			Flash Point	N/A

SECTION 4 - FIRE & EXPLOSION DATA

Flash Point	N/A	Method Used	N/A	Flammable Limits in Air % by Volume	LEL Lower	N/A	UEL Upper	N/A
Auto-Ignition Temperature	N/A	Extinguisher Media	N/A					
Special Fire Fighting Procedures	N/A							

Unusual Fire and Explosion Hazards N/A

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability Unstable ☐ Conditions to Avoid Stable ☒ None

Incompatibility (Conditions to Avoid) Reacts with strong acids to form oxides

Hazardous Decomposition Products None

Hazardous Polymerization May Occur ☐ Will Not Occur ☒ Conditions to Avoid None

Disclaimer: This material was obtained from published information.
Copies are available upon request.

City: None

Chronic: Prolonged irritation of respiratory system from continuous over exposure to dust may cause respiratory problems and/or lung injury.

**EMERGENCY
 AND
 FIRST AID
 PROCEDURES**

1. **INHALATION** Remove to well-ventilated area, seek immediate Medical Aid.
2. **EYES** Wash with water at least 15 minutes, seek Medical Aid if irritation persists.
3. **SKIN** Wash thoroughly with soap and water.
4. **INGESTION** Induce vomiting, seek Medical Aid.

**ROUTES
 OF
 ENTRY**

1. **INHALATION** Dust may irritate Respiratory System.
2. **EYES** Dust, grit, may irritate eyes.
3. **SKIN** Not normally a problem.
4. **INGESTION** Not normally a problem, dust, grit, may enter mouth.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage Keep dust levels down by spraying with water.

Other Precautions None

Steps to be Taken in Case Material is Released or Spilled Sweep up, keep dust levels down.

Waste Disposal Not an environmental hazard.
 (Consult federal, state, and local regulations)

SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection (Specify Type) NIOSH approved dust respirator where ventilation is poor.

Ventilation	Local Exhaust	Recommended	Mechanical (General)	Special	Other
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Protective Clothing	Not required	Eye Protection	Chemical Safety Goggles.
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Other Protective Clothing or Equipment Eye Wash, Safety Shower, Spill Absorbent.

Sanitary Practices Always wash hands before eating, smoking, etc.

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COPY OF LOG BOOK

FORT MONMOUTH, NEW JERSEY

NEUTRALIZATION PITS #1 & #2

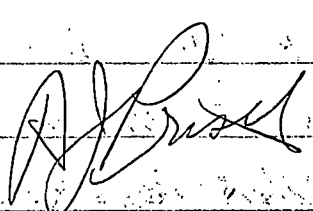
PROJECT #501-152

10/9/92 THRU 10/23/92

945P
10/10/92 AT MAMMOTH NEUTRALIZATION PIT PROJECT

- 0700 ARRIVED ON SITE (PIT #2 BY SUBSTATION)
WRITING FOR EN CHEN TO ARRIVE WITH SEWAGE TREAT
- 0800 EN CHEN ARRIVED ON SITE (PAST ON PARKWAY)
- 0800 ATLANTIC CRANE ARRIVED
CONTACTED CHUCK APPROVED TO GET FIRE HOSE
CONNECTIONS TO START SEWAGE TREATING.
- 0830 WALKED SEWAGE LINE WITH JOHN & TOM FROM
EN CHEN.
- 0930 SETUP AND TREATING ACID SEWAGE LINE TO PIT
#2.
- ~~0830~~ LIFTED CONCRETE MANHOLE OFF PIT #2 CRANE ON
STAND BY FOR SECURITY CHAIRMAN TO LIFT
COVER ON PIT #1.
- 0900 FORK LIFT REBOILING ARRIVED AT GATE TO PIT #1
WITH FORK TRUCKS-
- 0900 NICK FOLGIA ARRIVED WITH 116 STEEL DRUMS
BRYAN & DOMINIC STARTED UNLOADING DRUMS
I PICK UP FORK TRUCK DRIVER AT PIT #1, GATE
AND TOOK TO WASTE STORAGE AREA
CALL CHUCK APPROVED FOR KEY TO WASTE STORAGE
AREA GATE.

0930 Drawn locked keys in truck
 1000 Completed unloading steel draws
 Truck unhocked and fork trucks unloaded
 Setup Air compressor and 2" pump to pump H₂O
 level down in pit to help swim jet operation.
 1100 Got Challenger fork crane and lifted draw on
 pit #1.
 1130 Crane off site
 1330 Completed swim jet operation on lines to pit #2
 secured area with safety fence and caution tape
 1400 Moved operation to pit #1
 1430 Started swim jetting lines to pit #1
 Started pumping H₂O in pit #1 — 2" pump NOT
 ENOUGH to lower level in pit #1
 1530 Swim jet operation on pit #1 lines completed
 1700 Exchanged crane & equipment off site
 Dredge crew secured area around pit #1 and
 check pit #2 all area secured and equipment
 in place for pit maintenance on 10/10/92
 1800 Off site



10/10/92

0730

0745

0830

0900

0900

0930

0930

1000

1030

1045

1100

1200

10/10/92 F.T. MONMOUTH NEUTRALIZATION PIT Project

0730 ARRIVAL ON SITE.

ENCHMAN ARRIVED WITH SUPPLY VACE.

0745 BEGAN SET-UP OF VACE EQUIPMENT

ENCHMAN DID NOT BRING ROLLER COUPLERS OR GASKETS

SET EQUIPMENT UP IN STRAIGHT & PLUGGED MAN HOLE TO STOP ^{the}

0830 STARTED VACE OPERATION -

0900 STOPPED VACE OPERATION HAVE TO MOVE EQUIPMENT
CLOSE TO PIT.

0900 START TO BUILD DECK WITH OAK 2X8'S - CAN NOT
MOVE DRUMS OR GASKETS -

0930 START VACE OPERATION AGAIN WORKING OK. BUT VERY
HAND WORK -

0930 CALLED FRANK HUIBEX TO DRIVE LOW BOY TRAILER
AND LOAD DRUMS -

1000 STOP VACE OPERATION - HIGH TOX ALARM -

START SET-UP AIR SYSTEM TO GO INTO LEVEL "B"

1030 START VACE OPERATION - IN LEVEL "B"

1045 FRANK HUIBEX ARRIVED

1100 EVERYONE WORKING AS ATEAM DOMINIC IN PIT

VERY HARD TO CONTROL HOSE -

1200 FRANK OFF SITE TO GET 6" PVC PIPE FOR
END OF HOSE

	DOMINIC OUT OF PIT - JEFF IN TO WORK HOSE	1700
	DOMINIC OFF SITE TO GRAB LUNCH FOR CREW	
1230	FRANK RETURNED WITH 6' OF 6" PVC PIPE	
1300	JEFF OUT OF PIT.	1800
	BREAK FOR LUNCH AND MAKE MODS TO HOSE.	
1330	BACK TO WORK DOMINIC IN PIT - PIPE IS WORKING BETTER -	1815
1400	STOPPED TO PUT HANDLES ON PIPE FOR BETTER CONTROL -	1830
	HAVE FILLED 24 DRUMS WITH SLUDGE AND ROCK MUCH MORE MATERIAL IN PIT THAN ESTIMATED.	
	NEW CALCULATION INDICATES ACTUAL AMOUNT AT 80 DRUMS -	193
1500	FRANK PUNCHED HOLES IN DRUM ON TRUCK - PUNCHED HOLES IN 2ND DRUM WHILE TRYING TO GET FIRST DRUM OFF TRUCK - BOTH DRUMS BACK AT WORK SITE.	
1530	TAKING 24 DRUMS TO STORAGE AREA - NO PROBLEMS. SYSTEM IS WORKING VERY WELL -	
	PH OF H ₂ O IS CURRENTLY AT 7.5.	
1600	TRUCKS OPERATOR INFORMED ME THAT HIS EQUIPMENT FUEL IS DOWN TO HALF -	
	CAN NOT FINISH EMPTYING PIT TODAY	

- 1700 FT. MINIMUTHA NEUTRALIZATION PIT PROJECT
CALL ENCLAWN TO TELL THEM WE WILL NEED EQUIP.
TOMORROW AND ARRANGE RIDE FOR OPERATOR.
- 1800 TO DARK IN PIT TO CONTINUE WORKING - ALL SLUDGE
AND ALMOST ALL STONE OUT OF MAIN PIT AREA.
- 1815 NIGHT SHIFT ARRIVED ON SITE TO MONITOR PUMPS
IN MANHOLE -
SET UP LIGHTS AND SPARE AIR COMPRESSOR -
- 1830 GETTING GAS FOR PUMPS & GENERATORS GOING OVER
OPERATION WITH NIGHT SHIFT
BOUCE LEFT SITE WITH ENCLAWN OPERATOR
- 1930 BOY CROW LEFT SITE TO DAYS INN MOTEL -

AB

1/11/92
0700
0720

PT. MONMOUTH INDUSTRIALIZATION PIT PROJECT -
BENCHMAN ON SITE FUELED UP EQUIPMENT
ARRIVED ON SITE

1815

0730 NIGHT SHIFT LEFT SITE

SETTING-UP EQUIPMENT

0800 STARTED VACC. STOPS FROM PIT #2

0930 READY TO START CLEAN STONE PIT

STORM CHAMBER WON'T START

1000 STORM CHAMBER WON'T RUN

SHIFTING WORK TO VACC. OUT DULUTION PIT

BRUCE OFF SITE TO RENT A PRESSURE WASHER

1030 START VACC. SLOUGH ON DULUTION PIT SLOUGH

1130 EFFLUENT IS REMAINING NATURAL 7.5 PH

1330 BRUCE RETURNED WITH PRESSURE WASHER & SUMP PUMP

1430 PIT EMPTY READY TO PRESSURE WASH

PUMP WON'T RUN (NOT ENOUGH WATER PRESSURE)
BENCHMAN BREAKING DOWN EQUIPMENT & CLEANING EQUIPMENT
1500 HOOKED GARDEN HOSE TO FIRE HOSE

1530 PIT CLEAN INSTALLING BOARDS

1600 BOARDS IN PLACE - DUMPING STONE INTO PIT

1630 STONE IN PLACE AND LEVELLED

1700 BENCHMAN OFF SITE

PULLING SAWER PILES - WATER FLOW OK!

REPAIRING MANWAY ON PIT #2

STORING EQUIPMENT AND CLEANING UP AREA

1800 CLEW OFF SITE

1815 BRUCE SECTION AND I OFF SITE

MB

10/16/92 FT. MENMOUTH NEUTRALIZATION PIT Project

0800 ARRIVED ON SITE (PIT #1) INSIDE SECURITY AREA
STARTED SIGN IN PROCESS WITH ANDY OLEW AND
PICK FOLGIA.

0830 STARTED UNLOADING 80 STEEL DRUMS

0900 OFF ROAD FORK TRUCK ARRIVED AND WAS UNLOADED
STARTED TO UNLOAD EQUIPMENT FROM BOX VAN

0945 RED ROCK STONE ARRIVED WITH 16 TONS of
LIME STONE SPOKE TO BUILDING MANAGER ON WAY
TO PUMP STONE - DUMPED IN UNUSE LOADING
BAY BY JOB SITE

SPOKE WITH CHUCK APPLESBY LET HIM KNOW
WE WERE ON SITE.

1000 DOMINIC ARRIVED ON SITE WITH PUMPS AND AIR COMP.
OPENING DRUMS AND STAGING EQUIPMENT

1100 I LEFT SITE TO GET PIPE FITTINGS

1130 BACK ON SITE CAN NOT GET WHAT I WANT -

CALL BRUCE AT OFFICE. HE WILL GET FITTINGS

1400 COMPLETED STAGING EQUIPMENT & DRUMS

LEFT SECURED AREA FOR TODAY

[Signature]

10/17/92 FT. MONMOUTH NEUTRALIZATION PIT Project

~~10/17/92~~

0700 ARRIVED ON SITE - WAITING FOR ENCLAN

0800 FOUND ENCLAN AT PARKWAY AND ESCORTED HIM TO JOB SITE

0830 ALL CREW MEMBERS SIGNED IN AT PARKWAY

0845 ENCLAN ON SITE AT PIT #1

STARTING TO SET UP EQUIPMENT - LAY DOWN PLANKING ON PLASTIC STARTING FOR DRAIN WORK AREA.

ENCLAN BROUGHT 5 5' ROLLER COPPERS - ONLY 3 WERE GOOD ENOUGH TO USE.

0945 STARTING UP TO START VACUUMING PROCESS

1015 STARTED VACUUMING SLOGS FROM THE DELUTION PIT SIDE OF SYSTEM

1130 17 DRAWS COMPLETED SUTTING NEW OPERATOR TO GO INTO PIT ON LEVEL "B" TO REMOVE BARRELS.

COPIERS ALLOW US TO ONLY MOVE 1 DRAIN AT A TIME WITH FORK TRUCK.

1245 JEFF IN PIT REMOVING BARRELS AND VACUUMING

1230 DELUTION SIDE COMPLETED VACUUM - ONE MAN OFF SITE TO GET LUNCH

1300

1330

1400

1500

1600

1630

WHILE DOWNTOWN SIDE IS BEING PRESSURE WASHED

1300 Break for lunch

1330 RIGGING BACK HOSE WITH STEEL CLAMPS AND
RATCHET BINDER TO HOLD 6" PVC PIPE THAT
HAS BEEN EXTENDED TO 12' IN LENGTH.

1400 STARTED VACUUM STOVE FROM TOP OF PIT
NO ENTRY INTO PIT IS NECESSARY

1500 VACUUM PROCESSES GOING WELL MINOR PROBLEMS
WITH LARGE ROCKS GETTING STUCK IN PIPE.
HOSE COLLAPSING AS A RESULT OF BLOCKAGES

1600 90% OF STONE AND SLUDGE REMOVED FROM
PIT -

PICKED UP CHEMICAL SAMPLE FROM VACUUM
TRUCK VACUUM EXHAUST - ANAL SHOWING LOWS
IN PIT AT 250 PPM DO NOT KNOW WHAT
THE CHEMICAL IS - SUSPECT CARBON TET -
OR PER CHLOROPHYLE -

MAKING ENTRY INTO PIT IN LEVEL "B" OXY 21.1%
NO TOX READINGS - ~~NO~~ LEL AT <1%

1350 OPM BLOWING PUTTING FRESH AIR INTO PIT.

1630 OAK NIGHT SHIFT TO TELL THEM TO COME
TO SITE - WORK SHOULD BE COMPLETED THIS
SHIFT - BUT CAN NOT MAKE A GUARANTEE.

- 1700 ALL STONE & SLUDGE OUT OF PIT- PRESSURE
WASHING WALLS- 10/18/92
- 1715 REPLACING BATTERS IN BOTH SIDES OF PIT 083
- 1745 STARTED DUMPING STONE INTO PIT. 084
- 1830 ALL STONE IN PIT AND LOADED- 0930
- REMOVING PLUGS FROM INLET PIPE IN PIT
- 1845 REMOVING PLUGS FROM MANHOLE LEADING TO
PIT. FLOW RESTARTED TO PIT.
- 1900 EVERYTHING LOOKS GOOD- REPLACING
COVER ON PIT. 099
- 1915 COVER IN PLACE, CROW LEAVING SITE
- 1930 ALL PERSONNEL LEAVING SITE
- DOMINIC, ANDY, BO, AND FRANK WILL RETURN
TO SITE TOMORROW 10/18/92 AT 0830 TO PACK EQUIPMENT
MOVE DRUMS TO WASTE STORAGE AREA AND
CLEAN UP. 110
- 2000 A.T.P. AND B. SPOKE OFF SITE 139

[Signature]

143

10/18/92 FT. MONMOUTH NEUTRALIZATION P.T. PROJECT

0830 CREW ON SITE

0845 PACKING EQUIPMENT

0930 Chuck Appoby will NOT let drums be moved UNTIL ALL DRUMS ARE MARKED STOP/SLUDGE or SLUDGE -

Spoke to Chuck no problem I know with the STOP - SLUDGE SEPARATION IS -

0945 I START MARKING AND LABELING DRUMS IN STORAGE AREA - FRANK IS TIGHTENING DRUMS AND MOVING DRUMS TO STORAGE AREA

1100 Chuck has mark some drums to be opened later. He feels that maybe some CONSOLIDATION OF WASTE CAN HAPPEN - THESE DRUMS ARE SEGREGATED FROM OTHERS -

1345 ALL OUR EQUIPMENT IS LOADED AND AREA CLEAN UP - ANDY AND DOMINIC LEAVING SITE TO RETURN TO SHOP.

FRANK AND ED STILL MOVING DRUMS TO STORAGE AREA.

1430 SEVERAL MORE DRUMS ARE SEPARATED FOR FURTHER ANALYSIS TO IDENTIFY THE CHEMICAL THAT WAS

Pick up during the stone removal phase of
Chemical Neutralization Pit #1.

10/19/11

1500

ALL DRUMS MOVED TO STORAGE AREA -

0930

FRANK AND BO LOADING BACK HOE ON
TRAILER -

LOADED DRUM HANDLER INTO FRANK'S PICK-UP
TRUCK -

CREW OFF SITE.

Frank Perry

0930

1030

1100

1130

1145

1200

10/19/92 FT. MONMOUTH NEUTRALIZATION PIT Project 501-152

0800 ON SITE AT THE MAJOR CENTER NORTH SECURITY GATE
WAITING FOR FORK TRUCK REBUILDING TO PICK-UP
FORK TRUCKS.

SPoke WITH SECURITY GUARD HARTON EQUIPMENT
Picked UP THEIR TRUCK AT ABOUT 0810 - I HAVE
KEY TO UNIT - GUARD SAID DRIVER HAD MASTER
KEY - CALL HARTON TO VERIFY PICK-UP - THEY
SAID THEIR MAN WAS THERE, AND MAIL KEY BACK.

0930 CALLED FORK TRUCK REBUILDING - THEIR MAN
STUCK AT ANOTHER JOB SITE. WILL BE ON SITE IN
ABOUT 30 min.

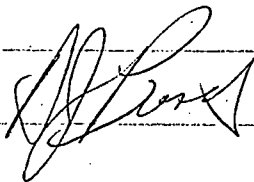
1030 CALL FORK TRUCK REBUILDING - SAME STORY -
PICK-UP KEY TO WASTE AREA C. APPLYBY -
OFF SITE TO GET SAMPLE JAR -

1100 SAMPLED SLUDGE FROM PIT #1 FOR WASTE
CHARACTERIZATION AND DISPOSAL.

1130 FORK TRUCK REBUILDING SHOWED UP LOADED
TRUCKS AND LEFT SITE

1145 RETURNED KEY TO CHECK APPLYBY -

1200 LEFT SITE.



OCT 23, 1992.

0930. ON SITE AT THE MYER CENTER. ANDY DEVLIN + D. GUINTO
(WAITING FOR CHUCK APPLEBY TO ARRIVE)

1000 BRYAN MCGEE ARRIVES WITH TRUCK W/MOUNTED CRANE
TO LIFT MANHOLE COVERS

1020 CHECK HOLES 38 + 38A OK. SHOWING GOOD FLOW WITH
NO DIRT BUILDUP ON BOTTOM OF HOLE. BRYAN TOOK
PICTURES.

- CHECK HOLE 39. NEEDS TO BE CLEANED. FLOW IS SLOWED
DUE TO DIRT BUILT UP IN DRAIN. AD + DG USE TANK
SHOVEL TO CLEAN HOLE.

- CHUCK A. ARRIVES AS THE HOLE IS BEING FINISHED.
HE TAKES PICTURES

- CHECK HOLE 38C. CHUCK A. GIVES DG PERMISSION
TO ENTER HOLE IN LEVEL C. LEVEL C EXPEDITES
THE PROCESS. PICTURE.

- MOVE TO REAR OF MYER CENTER

{ CHECK + CLEAN 33E. LEVEL C
CHECK + CLEAN 33B. LEVEL C
CHECK + CLEAN 33G. LEVEL D (HOLE IS ONLY 2FT
DEEP.

→ EXCESSIVE DIRT IN THESE THREE HOLES

- TOTAL REMOVED FROM ALL HOLES: 1 FULL 55GAL DRUM.

1400 CHUCK A. APPROVED WORK.

AD & DG FOLLOW CHUCK TO HAZ WASTE STORAGE
AREA TO UNLOAD DROM.

DROM UNLOADED

AD & DG OFF SITE

Donner Lantz

DMG