SAMPLING TRIP REPORT AND SITE ASSESSMENT

SITE NAME: Central Steel And Drum Site
DCN: START-02-F-001068
TDD #: 02-97-05-0010

SAMPLING DATE: 14, 15 and 23 May 1997

EPA I.D. NO.: No EPA I.D. number assigned at this time

1. Site Location: 704 Doremus Avenue, Newark, Essex County, NJ (corner of Doremus and Delancy). Refer to Figure 1.

2. Sample Descriptions: Sampling during the two day assessment included: Hazardous categorization (HazCat) field testing for RCRA characteristics, X-Ray Fluorescence (XRF) field analysis for lead and barium by the Spectrace 9000, and mercury vapor analysis using the Jerome Mercury Vapor Analyzer.

a) Drummed waste characterization by HazCat field testing

Twelve drum samples were collected for RCRA characterization analysis as outlined in the site-specific sampling plan. Refer to Table 1 for additional information. The HazCat field data sheets are included as Attachment A. Of the twelve samples tested:

- Five samples were RCRA flammable.
- One sample was RCRA corrosive with a pH greater than 12.
- One sample was RCRA water reactive

b) Site characterization for mercury vapors with the Jerome Mercury Vapor Analyzer

The Jerome 431-X Mercury Vapor Analyzer was used during the initial air monitoring survey of the buildings at the site. There were no readings above 0.000 mg/m^3.

c) Site characterization for heavy metals by the Spectrace 9000 XRF.

Fifteen soil sample points were analyzed "in situ" (analysis in place) for a range of inorganic metals. Lead (Pb) and barium (Ba) were the analytes of concern at this site as identified in the Sampling Plan. The precision of the XRF was estimated by 10 replicate sample determinations (repetitive instrumental analysis of the same sample and specimen of that sample as a measure of instrumental error) and 2 duplicate sample determinations (duplicate analysis of the same sample, but a different specimen of that sample as a means to measure instrumental error and sampling homogeneity error). The complete XRF results, including draft results for the additional analytes are included as Attachment B.

320395

- Lead was found to exceed the NJDEP Non-Residential Soil Cleanup Criteria of 1,000 mg/kg in nine of the fifteen samples.

- Barium was not found to exceed the NJDEP nonresidential soil cleanup criteria of 47,000 mg/kg in any of the samples analyzed.

d) Underground storage tanks

The site was revisited on May 23, 1997 to evaluate contents of the underground storage tanks at the site. There were two underground storage tanks noted. One tank is near the main building. The tank depth was measured as 100 inches. It was identified to contain 9 in. of liquid of which 6.5 inches is water and 2.5 inches appears to be gasoline. The gasoline layer tested positive for flammability. The second tank is located at the island west of the building. The tank was determined to contain 99 inches of liquid of which the bottom 59 inches was water (as indicated by water paste). Forty inches appeared to be diesel fuel.

3. Laboratories Receiving Samples:

No samples were taken at the site for laboratory analysis. All sample materials were returned to the appropriate containers and left at the site.

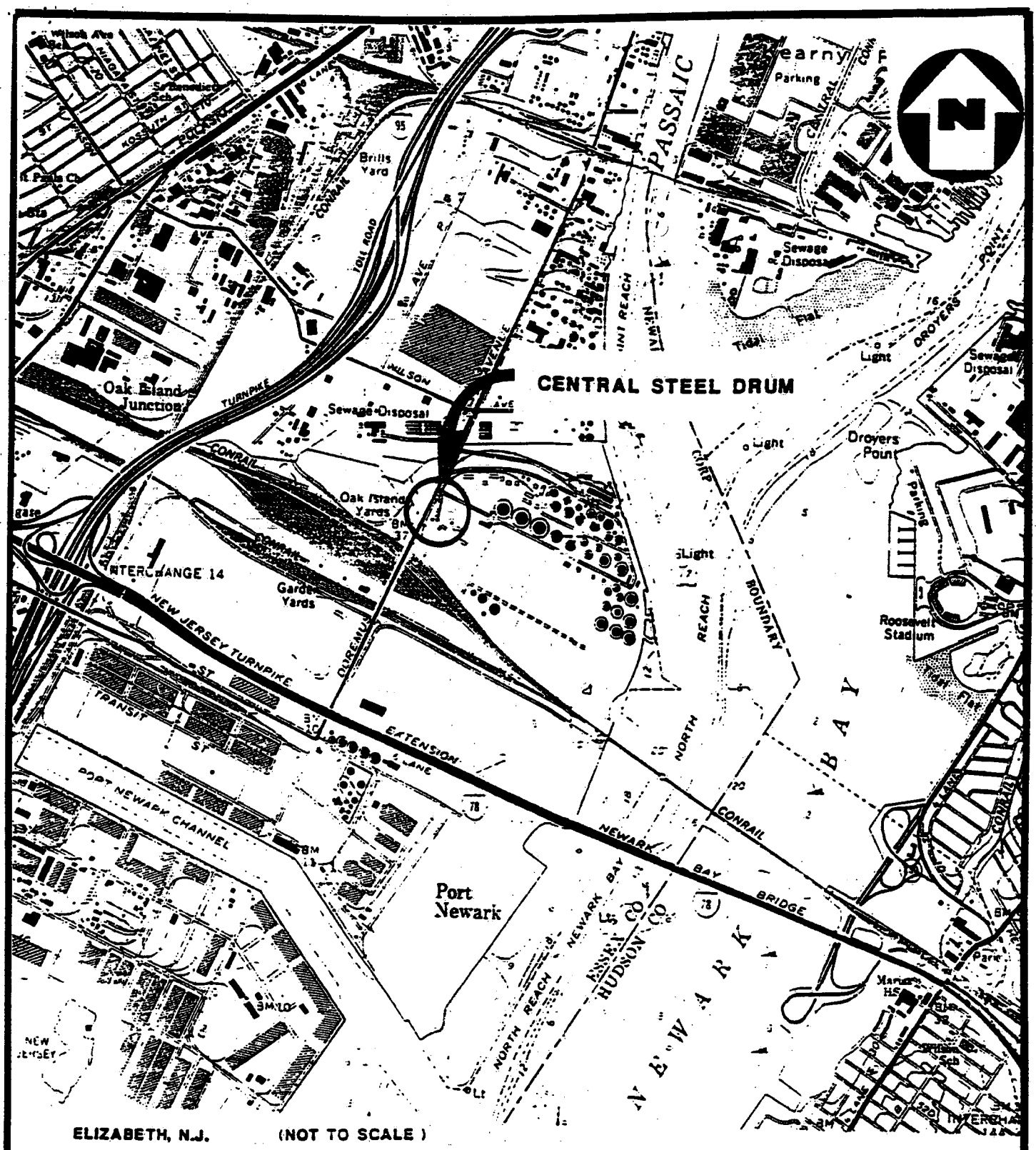
4. On-Site Personnel:

Name	Company	Duties on Site
Margaret Chong	EPA	On-Scene Coordinator
Jim Daloia	EPA	On-Scene Coordinator
Ed Moyle	Region II START	Site Project Manager/QAQC
Christoph Stannik	Region II START	HazCat Chemist
Joseph Soroka	Region II START	XRF Chemist
Michael Mahnkopf	Region II START	Sampler
Brian McGinn	Region II START	Sampler
Donielle Perri	Region II START	XRF Chemist
Tom O'Neill	Region II START	Site identification

5. Additional Comments:

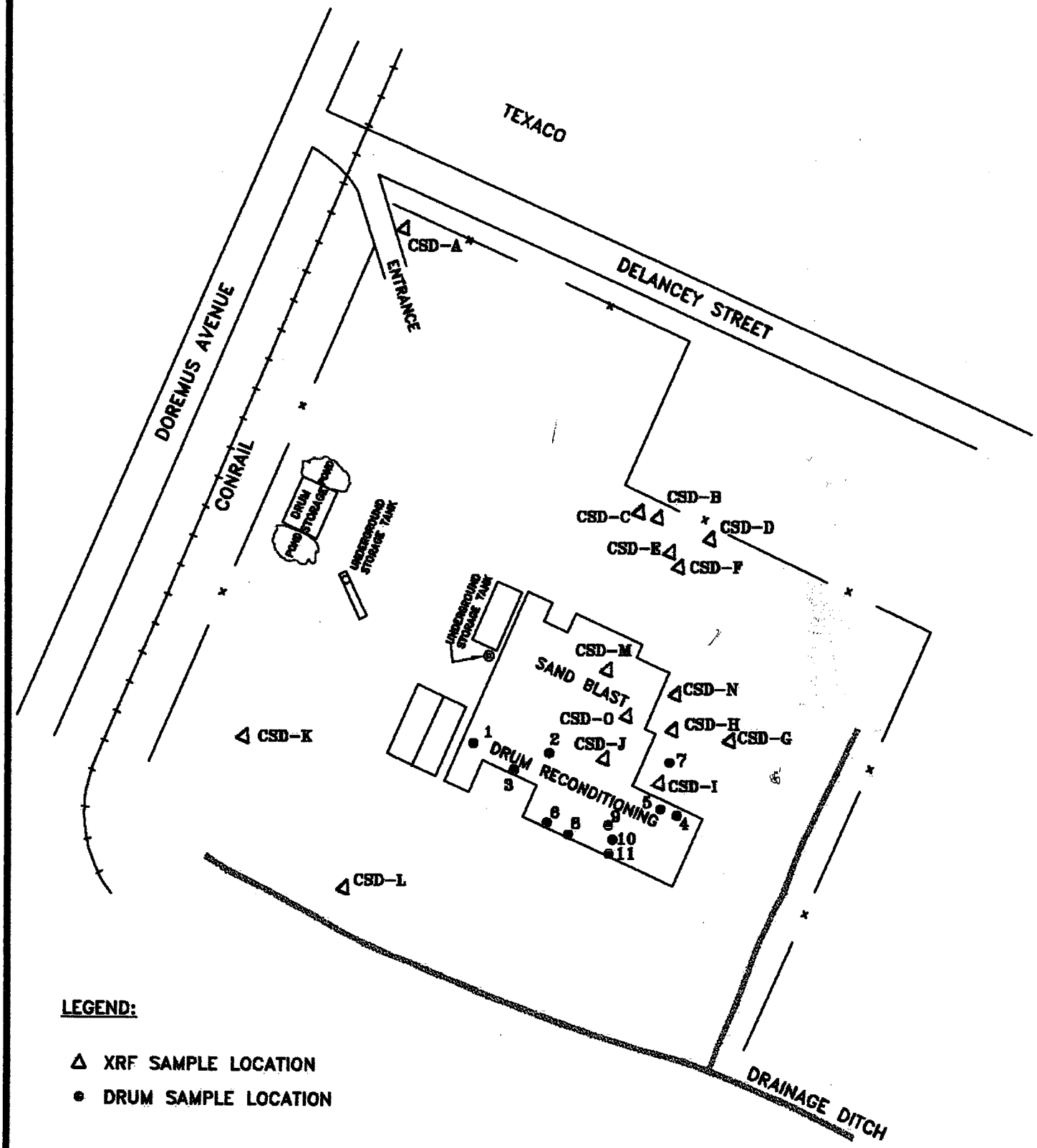
None

6. Report Prepared by: Thomas O'Neill Date: June 13, 1997
Report Reviewed by: Joseph Soroka Date: June 13, 1997



Source: Halliburton NUS

WESTON Roy F. Weston, Inc. FEDERAL PROGRAMS DIVISION MANAGERS/DESIGNERS/CONSULTANTS	EPA PM M. Chong	Central Steel Drum Newark, New Jersey
IN ASSOCIATION WITH RESOURCE APPLICATION, Inc. C.C. JOHNSON & MALHOTRA, P.C., R.E. SARRERA ASSOCIATES, PRC ENVIRONMENTAL MANAGEMENT, AND GRB ENVIRONMENTAL SERVICES, INC.	START PM E. Moyle	Figure 1: Site Location



LEGEND:

△ XRF SAMPLE LOCATION

● DRUM SAMPLE LOCATION

FIGURE 2 - SITE LAYOUT AND SAMPLING LOCATIONS
CENTRAL STEEL DRUM
NEWARK, NEW JERSEY
JUNE 1997

US EPA REMOVAL ACTION BRANCH
SUPER FUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
CONTRACT# 68-W5-0018

DRAWN BY : J. HAMPTON JR.

EPA TASK MONITOR: G. DeANGELIS

START PROJECT MANAGER: E. MOYLE

WESTON

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION

IN ASSOCIATION WITH PRC ENVIRONMENTAL MANAGEMENT, INC., C.C. JOHNSON & MALHOTRA, P.C., RESOURCE APPLICATIONS, INC., R.E. SARRIERA ASSOCIATES, AND GRB ENVIRONMENTAL SERVICES, INC.

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TABLE 1: FIELD TESTING RESULTS
CENTRAL STEEL DRUM
NEWARK, ESSEX COUNTY, NEW JERSEY

Sample #	Solubility		Reaction		pH	Flamm.	Cl hot wire	Oxidi.	Peroxide	Description	Comments
	H_2O	Hex.	Air	H_2O							
CSD-001	N	Y	N	N	NA	N	N	NA	NA	Black oily liquid, 55-gal., 50% full, HNu 5 units	5W-40 engine oil, Arthur Peta 126 Passaic St., Newark, NJ
CSD-002	Y	N	N	N	10-11	N	NA	N	-	White sludge, 55-gal., 25% full, HNu 0 units	Grace Corporation, Cmpd 1-14 dis 1189 negative for Cn, Hg, sulfide, chloride, flammable vapors in char test
CSD-003	Y	N	N	N	11	N	NA	N	-	Yellow watery liquid, foaming when agitated, 5-gal. poly, HNu 0 units	Prosoc, Inc. Sure-clean 600 detergent, corrosive, poison; negative for chloride, cyanide & sulfide: NA
CSD-004	Y	N	N	N	12	N	NA	N	-	White sludge, 55-gal. poly, 33% full, HNu 0 units	Oakite Paint-i-cide F-130, contains water, sodium silicate, di-ethylene glycol; flammable vapors in char test
CSD-005	N	Y	N	N	NA	Y	N	NA	-	Black watery liquid, gasoline-like smell, 30-gal. poly, 33% full, HNu 100 units	
CSD-006	N	Y	N	N	NA	Y	N	NA	-	Black watery liquid, gasoline-like smell, 30-gal. poly, full, HNu 110 units	
CSD-007	Y	N	N	N	7	N	NA	N	-	Rusty watery liquid, 55-gal. drum, 50% full, HNu 0 units	Negative for chloride & sulfide
CSD-008	N	Y	N	N	NA	Y	N	NA	NA	Syrup-like beige sludge, 55-gal. drum, 50% full	
CSD-009	N	N**	N	Y*	-	Y	N	-	-	Syrup-like white liquid, 5-gal. poly, full, HNu 150 units	The Valspar Company, Ft. Wayne, Il, isocyanate solution, product# 64-ctc0066. *water-reactive: forms globules in water; **soluble in hot methanol (milky solution)

NA: this test is not applicable to this matrix

Sample #	Solubility		Reaction		pH	Flamm.	Cl⁻ hot wire	Oxidi.	Peroxide	Description	Comments
	H_2O	Hex.	Air	H_2O							
CSD-010	Y	N	N	N	8	N	NA	N	-	Gray pasty sludge, 5-gal. poly, full, HNu 12 units	Production Car Products Heavy Duty Cleaner "Slam", corrosive negative for chloride & sulfide, not corrosive
CSD-011	N	Y	N	N	NA	Y	N	-	-	Black sludge, 55-gal drum, HNu 300 units	Akzo Black Gloss Fast Dry Enamel
CSD-012	Y	N	N	N	7	N	NA	N	-	Clear watery liquid, 55-gal. drum, full, HNu 0 units	

NA: this test is not applicable to this matrix

ATTACHMENT A

HAZCAT FIELD DATA SHEETS

SITE NAME: Central Steel & M SAMPLE NO: DRUM NUMBER:

STAGING LOCATION: Inside building

GRID LOCATION FOUND:

SAMPLER: Mike M.

LOGGER:

DATE/TIME: 5/14/97 1035

PROJECT NO:

DRUM DESCRIPTION:

CONSTRUCTION	TYPE	CONDITION:
Fiber ☐ Poly ☐	Poly Lined ☐ Overpack ☐	rusted ☒ leaking ☐ dented ☐
Steel ☒ Nickel ☐	Open Top ☐ Ring Top ☐	bulging ☐ perforated ☐ good ☒
Stainless Steel ☐ Other ☐	Closed Top ☒	other Needs 85 O/P

DRUM SIZE (Gallons): 85 ☐ 55 ☒ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME ~~Arth~~ Arthur Peta 126 Passic St, Newark, NJ

CHEMICAL NAME SW-40 engine oil

DRUM MARKINGS None

DRUM LABELS

50% full

FIELD AIR MONITORING INSTRUMENT READINGS: HNu 5 OVA ___ CGI ___ RAD METER ___ OTHER ___

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top		X				Oil, BLACK			X	N	Y	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	NA	N	N	—	—	—	—	—	—	—
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: CS Date 5/14/97

SITE NAME: CENTRAL STEEL + DRUM SAMPLE NO: _____ DRUM NUMBER: CSD-002

GRID LOCATION FOUND: _____ STAGING LOCATION: _____

LOGGER: BM SAMPLER: M & M

PROJECT NO: _____ DATE/TIME: 5/14

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☐	Poly Liner ☒	Overpack ☐	rusted ☒	leaking ☐	dented ☐
Steel ☒	Nickel ☐	Open Top ☐	Ring Top ☒	bulging ☐	perforated ☐	good ☒
Stainless Steel ☐	Other ☐	Closed Top ☒		other Needs O/P		

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☒ 10 ☐ 5 ☐ Other _____

MFG NAME Grace Corp.

CHEMICAL NAME

DRUM MARKINGS dark drum ~~CMPD~~ CMPD 1-14 DJS 1189

DRUM LABELS

25% Filled

FIELD AIR MONITORING INSTRUMENT READINGS: HNu 0 OVA ___ CGI ___ RAD METER ___ OTHER ___

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top				X		WHITE			X	Y	N	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	10-11	NA	N	N	N	N	NA	N	N	—
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

FLAME TEST: CHLORIDES, IODIDE, ORANGE

TEST COMPATABILITY RESULTS: FLAME, SPIDERWEBS, CHARS, METALLIC COATING ON METHANOL, CUPRIFS

Prepared by: C) Date: 5/14/97

SITE NAME: CENTRAL STEEL + DRUM SAMPLE NO: _____ DRUM NUMBER: CSD-003

GRID LOCATION FOUND: _____ STAGING LOCATION: _____

LOGGER: _____ SAMPLER: CJ

PROJECT NO: _____ DATE/TIME: 5/14/97

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☒	Poly Lined ☐	Overpack ☐	rusted ☐	leaking ☐	dented ☐
Steel ☐	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☒
Stainless Steel ☐	Other ☐	Closed Top ☐		other top open (screw top)		

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other 3 gal

MFG NAME Posic, Inc

CHEMICAL NAME (HCL) Sure clean 600 det

DRUM MARKINGS corresive, poison ~~DOES NOT LOOK LIKE IT~~

DRUM LABELS

Found an MSDS on table label

FIELD AIR MONITORING INSTRUMENT READINGS: HNu 0 OVA ___ CGI ___ RAD METER ___ OTHER ___

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top		X				YELLOW, FOAMING	X			Y	N	N	N
Middle						WATERY							
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	1	NA	N	NA	N	N	NA	—	—	—
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: CJ Date: 5-14-97

SITE NAME: CENTRAL STEEL + DRUM SAMPLE NO: _____ DRUM NUMBER: CSD-004

GRID LOCATION FOUND: _____ STAGING LOCATION: _____

LOGGER: _____ SAMPLER: _____

PROJECT NO: _____ DATE/TIME: 5/14

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☒	Poly Lined ☐	Overpack ☐	rusted ☐	leaking ☐	dented ☐
Steel ☐	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☒
Stainless Steel ☐	Other ☐	Closed Top ☒		other Needs tag		

DRUM SIZE (Gallons): 85 ☐ 55 ☒ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME Oakite

CHEMICAL NAME Paint-T-CINE F-131 water calcium silicate Diethylene glycol

DRUM MARKINGS

DRUM LABELS Alkaline liq. Influs. Product

v-1/3 Full

FIELD AIR MONITORING INSTRUMENT READINGS: HNu 0 OVA ___ CGI ___ RAD METER ___ OTHER ___

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top				X		WHITE			X	Y	N	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	12	NA	N	N	N	N	NA	—	N	—
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

CHAR TEST, WHITE VAPORS FLAMMABLE LATE

TEST COMPATABILITY RESULTS: WHITE FUME

Prepared by: CJ Date: 5-14-97

SITE NAME: CENTRAL STEEL + DRUM SAMPLE NO: _____ DRUM NUMBER: CSD-005

GRID LOCATION FOUND: _____ STAGING LOCATION: _____

LOGGER: _____ SAMPLER: _____

PROJECT NO: _____ DATE/TIME: 5/14/97

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☒	Poly Lined ☐	Overpack ☐	rusted ☐	leaking ☐	dented ☐
Steel ☐	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☒
Stainless Steel ☐	Other ☐	Closed Top ☒		other ~1/2 full w/ liq.		

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☒ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS Do not reuse for food or drink

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu 100 OVA ___ CGI ___ RAD METER ___ OTHER ___

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top		X				Yel/gray			X	N	Y	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	NA	N	Y	—	—	—	—	—	—	—
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS: CHAR TEST: VAPORS FLAMMABLE!
SPIDERWEBS (?)

Prepared by: CJ Date: 5-14-97

SITE NAME: CENTRAL STEEL + DRUM SAMPLE NO: _____ DRUM NUMBER: CSD-006

GRID LOCATION FOUND: _____ STAGING LOCATION: _____

LOGGER: _____ SAMPLER: _____

PROJECT NO: _____ DATE/TIME: 5/14/97

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☒	Poly Lined ☐	Overpack ☐	rusted ☐	leaking ☐	dented ☐
Steel ☐	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☒
Stainless Steel ☐	Other ☐	Closed Top ☒		other Full w/ liq.		

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☒ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS Do not reuse for food or drink

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu 110 OVA ___ CGI ___ RAD METER ___ OTHER ___

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top		X				BLACK			X	N	Y	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	NA	N	Y	—	—	—	—	—	—	—
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS: CHAR TEST: VAPORS DOMINE

Prepared by: CS Date: 5-14-97

SITE NAME: CENTRAL STEEL DRUM SAMPLE NO: _____ DRUM NUMBER: CDS-007

GRID LOCATION FOUND: _____ STAGING LOCATION: _____

LOGGER: _____ SAMPLER: _____

PROJECT NO: _____ DATE/TIME: 5-14-97

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☐	Poly Lined ☐	Overpack ☐	rusted ☒	leaking ☐	dented ☒
Steel ☒	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☐
Stainless Steel ☐	Other ☐	Closed Top ☒		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☒ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME

CHEMICAL NAME Labels painted over

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ___ OVA ___ CGI ___ RAD METER ___ OTHER ___

Y3 - Y2 - Y11

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top		X				YELLOW-BROWNISH	X			Y	N	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	7	NA	N	N	N	N	—	—	N	—
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS: CHAR - COMPLETE EVAPORATION

Prepared by: CS Date: 5-14-97

SITE NAME: CENTRAL STEEL DRUM SAMPLE NO: _____ DRUM NUMBER: CS D 000

GRID LOCATION FOUND: _____ STAGING LOCATION: _____

LOGGER: _____ SAMPLER: _____

PROJECT NO: _____ DATE/TIME: 5-14-97

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☐	Poly Lined ☐	Overpack ☐	rusted ☐	leaking ☐	dented ☐
Steel ☒	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☒
Stainless Steel ☐	Other ☐	Closed Top ☒		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☒ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME

CHEMICAL NAME None seen

DRUM MARKINGS

DRUM LABELS

1/2 Full

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ___ OVA ___ CGI ___ RAD METER ___ OTHER ___

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top				X		SYRUP-LIKE			X	N	Y	N	N
Middle						CARAMEL-COLORED							
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	NA	N	Y	NA	—	—	—	—	—	—
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: CS Date: 5-14-97

SITE NAME: CENTRAL STEEL DRUM SAMPLE NO: _____ DRUM NUMBER: EPS09

GRID LOCATION FOUND: _____ STAGING LOCATION: _____

LOGGER: _____ SAMPLER: _____

PROJECT NO: _____ DATE/TIME: 5/14/97 ≈ 1600

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☐	Poly Lined ☐	Overpack ☐	rusted ☐	leaking ☐	dented ☐
Steel ☒	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☒
Stainless Steel ☐	Other ☐	Closed Top ☒		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☒ Other _____

MFG NAME The Valspar Corp. Fort Wayne, IN

CHEMICAL NAME Isocyanate Solution

DRUM MARKINGS Product # 64-ETC0006 Paint

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu 150 OVA ___ CGI ___ RAD METER ___ OTHER ___

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility (X)		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top		X				Syrup-roundish	X			N	N	N	Y
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	NA	N	Y	—	—	—	—	—	—	—
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

WATER REACTIVE - FORMS GLOBULES (SINK)

TEST COMPATABILITY RESULTS: IN HEXANE - SINKS } HOT - NO DISCERNIBLE SOLUBILITY

(X) HEATED IN METHANOL ~~SINKS~~

FORMS MILKY SOLUTION

Prepared by: CS Date: 5-14-97

SITE NAME: CENTRAL STEEL DRUM SAMPLE NO: _____ DRUM NUMBER: CDS-06

GRID LOCATION FOUND: _____ STAGING LOCATION: _____

LOGGER: _____ SAMPLER: _____

PROJECT NO: _____ DATE/TIME: 5-14-97

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☒	Poly Lined ☐	Overpack ☐	rusted ☐	leaking ☐	dented ☐
Steel ☐	Nickel ☐	Open Top ☒	Ring Top ☐	bulging ☐	perforated ☐	good ☒
Stainless Steel ☐	Other ☐	Closed Top ☐		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME Production Car Products

CHEMICAL NAME

DRUM MARKINGS Heavy Duty Cleaning + Det. - "Slam!"

DRUM LABELS Corrosive

FIELD AIR MONITORING INSTRUMENT READINGS: HNu 12 OVA ___ CGI ___ RAD METER ___ OTHER ___

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top				X		GRAY PASTE			X	Y	N	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	~8	NA	N	N	N	N	NA	—	N	—
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS: NOT CORROSIVE AS STATED ON PAIL

Prepared by: CS Date: 5-14-97

ATTACHMENT B

XRF DATA

"ID"		"Pb"		"Ba"	
"CSD-A"		690		370	
"CSD-AR"		760		340	
	average:	725		360	
"CSD-B"		340		730	
"CSD-BR"		180	J	800	
	average:	260		765	
"CSD-C"		3000		710	
"CSD-CR"		4200		730	
	average:	3600		720	
"CSD-D"		980		2900	
"CSD-DR"		1100		2900	
	average:	1040		2900	
"CSD-E"		3000		1400	
"CSD-ER"		3800		1600	
	average:	3400		1500	
"CSD-F"		1400		940	
"CSD-FR"		1500		1100	
	average:	1450		1020	
"CSD-G"		12000		2200	
"CSD-GR"		13000		2300	
	average:	12500		2250	
"CSD-H"		9800		3600	
"CSD-HR"		9500		3700	
	average:	9650		3650	
"CSD-I"		1900		650	
"CSD-IR"		1900		660	
	average:	1900		655	
"CSD-J"		8200		590	
"CSD-JR"		6400		570	
	average:	7300		580	
"CSD-K"		1600		990	
"CSD-KDup"		1500		810	
	average:	1550		900	
"CSD-L"		400		140	
"CSD-M"		120	J	2600	
"CSD-MDup"		110	J	2800	
	average:	115		2700	
"CSD-N"		7300		1700	
"CSD-O"		250		50	J

Dup = duplicate
R = replicate

"ID"	"TIME"	"CrHI"	"K"	"Ca"	"Ti"	"CrLO"	"Mn"	"Fe"	"Co"	"Ni"	"Cu"	"Zn"	"As"
"CSD-A"	15.5	141	2807	24843	4187	198	2391	75984	909	-242	305	348	-31
"CSD-AR"	15.5	961	3919	28183	5523	690	1088	81448	607	-169	375	465	-18
"CSD-B"	15.8	-298	1175	4361	6688	673	2708	271654	575	-673	409	1580	87
"CSD-BR"	15.8	756	882	4525	6651	362	2587	273441	1562	-1202	1042	1064	95
"CSD-C"	15.9	1867	755	26953	20540	832	1802	363117	-798	-535	661	1236	128
"CSD-CR"	15.9	625	817	26373	21285	657	82	394448	210	162	1291	823	-692
"CSD-D"	16.0	945	524	6861	8359	468	1513	391739	-199	364	-152	780	-287
"CSD-DR"	16.0	1076	756	7206	8398	631	3223	418668	1136	-458	20	716	-118
"CSD-E"	16.1	3003	2324	14348	10932	1900	2376	262748	1154	263	6201	3049	-267
"CSD-ER"	16.2	2337	2412	13891	11252	1820	1168	267121	-1771	561	6706	2736	-762
"CSD-F"	16.2	968	1396	46808	36066	657	1317	320342	2862	-642	191	5032	421
"CSD-FR"	16.3	503	1436	53379	37219	569	451	350431	-3830	223	495	4208	254
"CSD-G"	16.4	4282	1956	100392	45065	2005	1042	38590	366	109	903	3382	-1199
"CSD-GR"	16.4	4146	1429	101298	47168	2998	1436	40107	923	295	1147	3977	-1688
"CSD-H"	16.5	3939	597	96493	48226	1796	-146	31885	27	461	1316	3090	-677
"CSD-HR"	16.5	2623	821	94979	46875	1885	-669	33986	-356	204	1085	2963	8
"CSD-I"	16.6	1616	1977	26151	15952	912	246	61087	-396	266	97	1493	-112
"CSD-IR"	16.7	810	1410	25764	16372	799	1626	63559	251	-182	424	1458	-187
"CSD-J"	16.8	4893	1632	32985	23177	1721	1429	201881	-453	13	855	3768	-684
"CSD-JR"	16.8	2942	1439	31533	21310	1112	-723	188420	-661	162	646	3804	-48
"CSD-K"	17.2	-166	1471	51142	12670	269	1435	177447	251	-491	77	1831	-393
"CSD-KD"	17.3	1184	1227	43724	13248	420	441	201123	-2257	72	118	1541	-508
"CSD-L"	17.4	-418	1798	42396	846	50	723	9934	436	40	121	90	-65
"CSD-M"	17.4	122	12199	25961	3465	47	1629	101328	-1926	382	-117	891	-1
"CSD-MDUP"	17.5	997	10027	23854	4418	-267	162	94391	-1827	596	12	1568	-44
"CSD-N"	17.7	1753	1384	156775	23547	1521	1016	26884	-968	325	580	3028	-804
"CSD-O"	17.7	-229	1084	3947	2470	280	3552	333798	-2328	589	-118	1701	-75

"ID"	"TIME"	"Se"	"Sr"	"Zr"	"Mo"	"Hg"	"Pb"	"Rb"	"Cd"	"Sn"	"Sb"	"Ba"
"CSD-A"	15.5	-46	151	88	40	25	685	24	-160	-60	116	370
"CSD-AR"	15.5	-47	49	136	38	149	755	20	-303	-63	120	339
"CSD-B"	15.8	-75	118	23	73	58	341	3	-279	-50	25	732
"CSD-BR"	15.8	-53	29	32	55	171	179	-14	4	-66	68	805
"CSD-C"	15.9	-1	133	198	105	80	3045	50	210	19	78	708
"CSD-CR"	15.9	29	51	278	104	47	4195	-38	-142	-38	-10	733
"CSD-D"	16.0	-34	91	735	19	153	980	-13	5	59	29	2862
"CSD-DR"	16.0	-9	64	852	37	222	1059	-48	567	13	23	2906
"CSD-E"	16.1	-48	55	55	67	124	3036	-17	645	283	259	1392
"CSD-ER"	16.2	-22	92	39	91	198	3781	-1	181	155	279	1553
"CSD-F"	16.2	-43	122	36	68	14	1384	-3	232	158	62	943
"CSD-FR"	16.3	-48	23	31	69	95	1467	26	102	-7	86	1080
"CSD-G"	16.4	-9	670	813	251	44	11913	101	84	174	148	2240
"CSD-GR"	16.4	20	821	949	315	-24	12920	45	321	237	124	2336
"CSD-H"	16.5	-6	1126	755	340	28	9805	7	76	108	217	3634
"CSD-HR"	16.5	-50	1019	687	375	182	9470	32	-39	55	289	3713
"CSD-I"	16.6	-23	170	160	84	47	1937	37	-418	74	102	654
"CSD-IR"	16.7	-28	137	148	100	-16	1890	27	-348	-40	112	656
"CSD-J"	16.8	-0	128	215	479	75	8196	61	-123	-144	16	589
"CSD-JR"	16.8	-92	115	236	441	-22	6358	-11	-53	83	91	573
"CSD-K"	17.2	-55	760	101	78	45	1615	-2	-56	-229	-5	994
"CSD-KD"	17.3	6	834	82	112	73	1515	83	-122	-101	112	808
"CSD-L"	17.4	107	237	56	34	3	404	17	109	334	106	141
"CSD-M"	17.4	-22	989	113	11	84	118	81	328	17	29	2637
"CSD-MDUP"	17.5	-42	755	119	20	142	107	135	185	224	127	2834
"CSD-N"	17.7	-73	1883	216	180	82	7297	26	163	61	186	1749
"CSD-O"	17.7	-34	-18	-3	33	78	248	-9	180	-65	11	50

SITE INVENTORY
CENTRAL STEEL DRUM
704 DOREMUS AVENUE, NEWARK, NJ
11 JUNE 1997

INSIDE BUILDINGS

There are approximately 130 drums scattered throughout the buildings. Many of these drums have open tops and contain trash/debris and solids. Drum labels noted are as follows:

- Arthur Peto, 126 Passaic St., Newark, NJ, 5W-40 engine oil
- Grace Corp., Darex CMPD 1-14 DIS 1189
- Prosic Inc., (HCL) Sure Clean 600 det, corrosive, poison
- Oaklite, Paint-I-cide, F130, Di-ethyleneglycol, alkaline liquid
- Unknown material, indicating the drum not be reused for food or drink.
- The Valspar Corp., Fort Wayne IN , isodyanatel solution, Product No. 64-CTC-0066
- Production Car Products, heavy duty cleaning and detergent, corrosive

CEMENT DRUM PAD

There are approximately 205 drums at this location. Most of the drums are unlabeled or rusted. All of the drums are closed top or open top with contents. Several drums were observed to be leaking paint and oil from the bottoms. The southwest corner of the pad is oil stained. Drum labels noted were as follows:

- Apple Juice Concentrate, BJI, 16425 SR42 East, Weirsdale, FL 32195
- Rotella Multigrade, 5W-40 with XLA
- Rising Star (illegible) of America, Manufacturers of Chemical Coatings, Brooklyn, NY, Flammable liquid
- SAE 10W-40
- Tar (handwritten)
- Hydrocarbon resin, alkyd resin, calcium carbonate (partial label)
- Benjamin Moore, Center St, Nutley, NJ. Stenciled on drum lid, and lid place loosely over what appeared to be trash/debris.
- MSDS label (most illegible), Health 1, Flammability 3, Reactivity 1
- Calcium (illegible), titanium (illegible), toluene.

FORMER INCINERATOR AREA

There are approximately 88 drums in the room behind the building and in the area of the former incinerator. Most of the drums are rusted and unlabeled. Drum labels noted were:

- Two 55-gallon metal drums - Warning flammable vapor, harmful causes eye irritation, contains toluene, and/or xylene and oxygenated solvents (esters, alcohols, ketones or ethers). Contains ethylene glycol monoethyl ether.

NORTH SIDE OF PROPERTY

There are drums stored along the fence on the northern boundary of the site at two locations. There are approximately 77 drums containing debris, solids and sand blast grit. Almost all of the drums are open top and unlabeled. Labels noted were:

- Metgrain Abrasives, Chesapeake Specialty Products, Baltimore, MD
- Ashland Chemical, Columbus, OH, Lino Cure ABG, combustible liquid, harmful or fatal if swallowed, vapor harmful, causes irritation.

Immediately west of this area there are approximately 250 drums stacked two high on pallets. Approximately 200 of the drums are closed top. Labels include:

- Flammable solid
- Polyarome Mfg. Co., Polarlide 50
- Vista Chemical, Houston, TX
- Metgrain Abrasives
- Ceres Fruit Growers

Closer to the building there is a group of approximately 37 drums. All are open top and contain debris/trash and solids.

SOUTH OF BUILDING

Two compressed gas cylinders were noted. One is a 20 lb. propane tank. The other is a 3 ft long blue metal cylinder with no valve and no label.

EAST OF BUILDING

Eleven open top drums containing what appears to be C and D (construction and demolition) waste.