MEMORANDUM

To: Ron C. Conrad
From: David V. Martinez
Subject: High Explosives, Request 22394
Date: September 26, 1995

Fourteen soil samples and two QC samples were analyzed by Environmental Science and Engineering (ESE) for High Explosives by EPA method 8330. DX-16 could not perform these analyses, so they were sent to ESE. The samples were analyzed according to this method, with surrogate compounds added and calibration curves analyzed as required. Second column analysis was done when the primary analyses detected High Explosive compounds at levels greater than the detection limit for that compound.

Surrogate recovery was acceptable for the samples of this request, except sample 95.12841, which exhibited low surrogate recovery.

The QC sample 95.12887 exhibited very low recovery for Tetryl. QC sample 95.12886 exhibited acceptable recovery for Tetryl. The low recovery was isolated to QC sample 95.12887.

No other problems were reported with the analyses of the samples of this request.

TA-16 S-SITE BURNING GROUNDS

ESH-19, WASTE SITE STUDIES
SOIL SAMPLING PROJECT

Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

SAMPLE MANAGEMENT RECEIVING RECORD

CUSTOMER INFORMATION

Cost Account.

	Group	Phone	Mail Stop	Program Code
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

PROJECT DESCRIPTION

Customer Sample # PRS16-01051 — PRS16-01053, PRS16-01054 — PRS16-01055, PRS16-01051 — PRS16-01056
PRS13KG-1 — PRS13KG-3

SAMPLE RECEIVING INFORMATION

Received By	Date Received	Sample Matrix	No. Of Samples	Samples Received Under Chain-Of-Custody?
Joyce Vigil	7/31/95	SS	27	☑ Yes ☐ No

Samples Checked For
☑ Preservation ☐ Container Integrity ☐ Sample Size
☐ Sample Integrity

Condition Of Sample Received
☐ Acceptable
☐ Not Acceptable (Complete an SRD Record)

REQUESTED ANALYSES

Inorganic	Organics	Radio Chemistry
Metals ~~Tot~~ Isotopic U soil extraction for metals	VOA SVOA TPH HE	
Request No.	Request No.	Request No.

Comments
Collection Date 7/31/95

Customer Signature: Catherine Rivera-Dirks — Date: July 31, 1995
Sample Management Custodian Signature: Joyce Vigil — Time [illegible] — Date [illegible]

Form 1349 (4/91)

2462

Customer Copy

EM-9 ANALYTICAL SERVICE AGREEMENT
Samples Assigned Report

REQUEST NUMBER
22399

ANALYTICAL SECTION: INORG
PROGRAM FUND CODE: WE5A
SAMPLE DISPOSAL: RETURN
PRIORITY CODE: 3
SCREENING DATA: Samples Screened: Counts BELOW Background!
AGREEMENT_DATE: 01-AUG-95
CUSTOMER: RCC; Ron C. Conrad
MAIL STOP: K490
PHONE: 667-0950
SIGNATURE: JAJ
TOTAL SAMPLES: _____

REMARKS:

ACCOUNT CODE=0300 CC=7C19

COUNT:

TECHNIQUE	ANALYSIS	ANALYST	DUE	NUMBER SAMPLES
CVAA	HG	AAS	30-SEP-95	27
ETVAA	AS	AAS	30-SEP-95	28
	SE	AAS	30-SEP-95	28
ICPES	AG	OES	30-SEP-95	28
	BA	OES	30-SEP-95	28
	BE	OES	30-SEP-95	28
	CD	OES	30-SEP-95	28
	CR	OES	30-SEP-95	28
	NI	OES	30-SEP-95	28
ICPMS	PB	IMS	30-SEP-95	28
	SB	IMS	30-SEP-95	28
	TL	IMS	30-SEP-95	28
	U	IMS	30-SEP-95	11

S-site
Burning
Ground
metals

SAMPLE# - CUT#	MATRX TYPE	PRESERVATIVES	HAZARDS	COLLECTED	DUE DATE	TECHNIQUE(ANAL, ANAL,...);
95.12834-Cut2	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS.
95.12835-Cut2	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS(PB, SB, TL).
95.12836-Cut4	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS.
95.12837-Cut5	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS(PB, SB, TL).
95.12838-Cut4	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS.
95.12839-Cut4	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS.
95.12840-Cut5	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS(PB, SB, TL).
95.12841-Cut5	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS.
95.12842-Cut5	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS(PB, SB, TL).
95.12843-Cut4	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS(PB, SB, TL).
95.12844-Cut4	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS(PB, SB, TL).
95.12846-Cut4	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS(PB, SB, TL).

EM-9 ANALYTICAL SERVICE AGREEMENT
Samples Assigned Report

REQUEST NUMBER
22399

SAMPLE# - CUT#	MATRX TYPE	PRESERVATIVES	HAZARDS	COLLECTED	DUE DATE	TECHNIQUE(ANAL, ANAL,...);
95.12847-Cut5	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS(PB, SB, TL).
95.12848-Cut5	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS(PB, SB, TL).
95.12849-Cut5	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS(PB, SB, TL).
95.12850-Cut5	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS(PB, SB, TL).
95.12851-Cut3	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS(PB, SB, TL).
95.12852-Cut3	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS.
95.12853-Cut3	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS(PB, SB, TL).
95.12854-Cut3	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS(PB, SB, TL).
95.12855-Cut2	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS.
95.12856-Cut3	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS(PB, SB, TL).
95.12857-Cut2	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS(PB, SB, TL).
95.12894-Cut1	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS.
95.12895-Cut1	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS.
95.12896-Cut1	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	CVAA; ETVAA; ICPES; ICPMS.
95.12897-Cut1	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-MAR-95	30-SEP-95	ETVAA; ICPES; ICPMS(PB, SB, TL).
95.12898-Cut1	SS	KEEP AT 4 CELSIUS	NO HAZARDS	31-MAR-95	30-SEP-95	ETVAA; ICPES; ICPMS(PB, SB, TL).
95.12899-Cut1	SS	KEEP AT 4 CELSIUS	NO HAZARDS	15-SEP-94	30-SEP-95	ICPMS(U).
95.12900-Cut1	SS	NO PRESERVS	NO HAZARDS	10-NOV-94	30-SEP-95	CVAA.

Agreement	Sample Nbr	Customer Number	Date Collected
99	95.12899	00.01447	15-SEP-94
99	95.12900	00.01450	10-NOV-94
22399	95.12897	00.28280	31-MAR-95
22399	95.12898	00.28280	31-MAR-95
22399	95.12834	PRS16-010B1	31-JUL-95
22399	95.12857	PRS16-010B10	31-JUL-95
22399	95.12838	PRS16-010B11	31-JUL-95
22399	95.12839	PRS16-010B12	31-JUL-95
22399	95.12840	PRS16-010B13	31-JUL-95
22399	95.12841	PRS16-010B14	31-JUL-95
22399	95.12853	PRS16-010B15	31-JUL-95
22399	95.12851	PRS16-010B2	31-JUL-95
22399	95.12855	PRS16-010B3	31-JUL-95
22399	95.12835	PRS16-010B4	31-JUL-95
22399	95.12856	PRS16-010B5	31-JUL-95
22399	95.12837	PRS16-010B6	31-JUL-95
22399	95.12852	PRS16-010B8	31-JUL-95
22399	95.12836	PRS16-010B9	31-JUL-95
22399	95.12842	PRS16-010J1	31-JUL-95
22399	95.12854	PRS16-010J10	31-JUL-95
22399	95.12843	PRS16-010J2	31-JUL-95
22399	95.12844	PRS16-010J3	31-JUL-95
22399	95.12846	PRS16-010J5	31-JUL-95
22399	95.12847	PRS16-010J6	31-JUL-95
22399	95.12848	PRS16-010J7	31-JUL-95
99	95.12849	PRS16-010J8	31-JUL-95
99	95.12850	PRS16-010J9	31-JUL-95
99	95.12894	PRSBKG-1	31-JUL-95
22399	95.12895	PRSBKG-2	31-JUL-95
22399	95.12896	PRSBKG-3	31-JUL-95

4W

EM-9 ANALYTICAL SERVICE AGREEMENT
Samples Assigned Report

REQUEST NBR
22393

ANALYTICAL SECTION: ORGNC

PROGRAM FUND CODE: WE5A

SAMPLE DISPOSAL: RETURN

AGREEMENT_DATE: 01-AUG-95

PRIORITY CODE: 3

SCREENING DATA: Samples Screened: Counts BELOW Background!

CUSTOMER: RCC; Ron C. Conrad

MAIL STOP: K490

PHONE: 667-0950

SIGNATURE: Jon Jackson JAJ

TOTAL SAMPLES:

COUNTS:

ANALYSIS	TECHNIQUE	ANALYST	DUE	NBR SAMPLES
177	GCMS	JBR	30-SEP-95	14
SEMIVOL	GCMS	AJL	30-SEP-95	23
VOLATILES	GCMS	JDT	30-SEP-95	22

Burning Ground TA-16 sample 8/28/95

REMARKS:

ACCOUNT CODE=0300 CC=7C19
AMMENDED 8/1/95: DELETED NONEXISTING SAMPLE ON SERVICE
AGREEMENT AND ON CHAIN OF CUSTODY #95.12836
AMENDED 8/23/95: DELETED 95.12846 - SAMPLE LOST

Catherine, Please note on this form which sample(s) this is for and what happened exactly. Thanks

7. Sample was J-B7, → PH analysis. On turned in a signed chain of custody, sample was present. However, was lost in sample receiving. Ron

SAMPLES:

ANALYSIS	SAMPLE	TECHNIQUE	MATRX	TYPE	PRESERVATIVES	HAZARDS	COLLECTED	DUE	ANALST
177	95.12837-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12840-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12841-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12842-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12843-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12844-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12847-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12848-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12849-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12850-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12851-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12853-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12863-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	25-MAY-94	30-SEP-95	JBR
	95.12864-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	25-MAY-94	30-SEP-95	JBR
SEMIVOL	95.12837-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12838-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12839-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12840-Cut-2	GCMS	SS		KEEP AT 4 CELS'US	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12841-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12842-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12843-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12844-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12845-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL

EM-9 ANALYTICAL SERVICE AGREEMENT
Samples Assigned Report

REQUEST NBR
22393

'LES:

NALYSIS	SAMPLE	TECHNIQUE	MATRX	TYPE	PRESERVATIVES	HAZARDS	COLLECTED	DUE	ANALST
SEMIVOL	95.12846-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12847-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12848-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12849-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12850-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12851-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12852-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12853-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12854-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12869-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	01-AUG-95	30-SEP-95	AJL
	95.12870-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	01-AUG-95	30-SEP-95	AJL
	95.12883-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	01-AUG-95	30-SEP-95	AJL
	95.12884-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	01-AUG-95	30-SEP-95	AJL
VOLATILES	95.12834-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12835-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12837-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12838-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12839-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12840-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12841-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12842-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12843-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12844-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12845-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12846-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12847-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12848-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12849-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12850-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12854-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12856-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12867-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	01-AUG-95	30-SEP-95	JDT
	95.12868-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	01-AUG-95	30-SEP-95	JDT
	95.12885-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	01-AUG-95	30-SEP-95	JDT
	95.12889-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	01-AUG-95	30-SEP-95	JDT

4W

EM-9 ANALYTICAL SERVICE AGREEMENT
Samples Assigned Report

REQUEST NBR
22393

ALYTICAL SECTION: ORGNC PROGRAM FUND CODE: WE5A

PRIORITY CODE: 3

MPLE DISPOSAL: RETURN AGREEMENT_DATE: 01-AUG-95

SCREENING DATA: Samples Screened: Counts BELOW Background!

CUSTOMER: RCC; Ron C. Conrad MAIL STOP: K490 PHONE: 667-0950

SIGNATURE: Jan Jackson JAJ TOTAL SAMPLES:

COUNTS:

ANALYSIS	TECHNIQUE	ANALYST	DUE	NBR SAMPLES
177 TPH CCD	GCMS	JBR	30-SEP-95	15
SEMIVOL	GCMS	AJL	30-SEP-95	23
VOLATILES	GCMS	JDT	30-SEP-95	23

S- site Burning ground VOCs + SVOCs in-house

REMARKS:

ACCOUNT CODE=0300 CC=7C19

SAMPLES:

ANALYSIS	SAMPLE	TECHNIQUE	MATRX	TYPE	PRESERVATIVES	HAZARDS	COLLECTED	DUE	ANALST
177	95.12837-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12840-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12841-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12842-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12843-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12844-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12846-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12847-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12848-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12849-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12850-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12851-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12853-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12863-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	25-MAY-94	30-SEP-95	JBR
	95.12864-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	25-MAY-94	30-SEP-95	JBR
SEMIVOL	95.12836-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12837-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12838-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12839-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12840-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12841-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12842-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12843-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12844-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12845-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12846-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL

EM-9 ANALYTICAL SERVICE AGREEMENT
Samples Assigned Report

REQUEST NBR
22393

ES:

ALYSIS	SAMPLE	TECHNIQUE	MATRX	TYPE	PRESERVATIVES	HAZARDS	COLLECTED	DUE	ANALST
SEMIVOL	95.12847-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12848-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12849-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12850-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12851-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12852-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12853-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12854-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12869-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	01-AUG-95	30-SEP-95	AJL
	95.12870-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	01-AUG-95	30-SEP-95	AJL
	95.12883-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	01-AUG-95	30-SEP-95	AJL
	95.12884-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	01-AUG-95	30-SEP-95	AJL
VOLATILES	95.12834-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12835-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12836-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12837-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12838-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12839-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12840-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12841-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12842-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12843-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12844-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12845-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12846-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12847-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12848-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12849-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12850-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12854-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12856-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12867-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	01-AUG-95	30-SEP-95	JDT
	95.12868-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	01-AUG-95	30-SEP-95	JDT
	95.12885-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	01-AUG-95	30-SEP-95	JDT
	95.12889-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	01-AUG-95	30-SEP-95	JDT

Agreement	Sample Nbr	Customer Number	Date Collected
2393	95.12867	00.20227	01-AUG-95
2393	95.12868	00.20227	01-AUG-95
2393	95.12869	00.20227	01-AUG-95
22393	95.12870	00.20227	01-AUG-95
22393	95.12889	00.30362	01-AUG-95
22393	95.12863	00.31005	25-MAY-94
22393	95.12864	00.31009	25-MAY-94
22393	95.12883	00.32096	01-AUG-95
22393	95.12884	00.32249	01-AUG-95
22393	95.12885	00.32251	01-AUG-95
22393	95.12886	00.33767	01-AUG-95
22393	95.12887	00.33768	01-AUG-95
22393	95.12834	PRS16-010B1	31-JUL-95
22393	95.12857	PRS16-010B10	31-JUL-95
22393	95.12838	PRS16-010B11	31-JUL-95
22393	95.12839	PRS16-010B12	31-JUL-95
22393	95.12840	PRS16-010B13	31-JUL-95
22393	95.12841	PRS16-010B14	31-JUL-95
22393	95.12853	PRS16-010B15	31-JUL-95
22393	95.12851	PRS16-010B2	31-JUL-95
22393	95.12855	PRS16-010B3	31-JUL-95
22393	95.12835	PRS16-010B4	31-JUL-95
22393	95.12856	PRS16-010B5	31-JUL-95
22393	95.12837	PRS16-010B6	31-JUL-95
22393	95.12852	PRS16-010B8	31-JUL-95
2393	95.12836	PRS16-010B9	31-JUL-95
22393	95.12842	PRS16-010J1	31-JUL-95
22393	95.12854	PRS16-010J10	31-JUL-95
2393	95.12843	PRS16-010J2	31-JUL-95
2393	95.12844	PRS16-010J3	31-JUL-95
22393	95.12845	PRS16-010J4	31-JUL-95
22393	95.12846	PRS16-010J5	31-JUL-95
22393	95.12847	PRS16-010J6	31-JUL-95
22393	95.12848	PRS16-010J7	31-JUL-95
22393	95.12849	PRS16-010J8	31-JUL-95
22393	95.12850	PRS16-010J9	31-JUL-95

4W

EM-9 ANALYTICAL SERVICE AGREEMENT
Samples Assigned Report

REQUEST NBR
22394

ALYTICAL SECTION: ORGNC PROGRAM FUND CODE: WE5A

SAMPLE DISPOSAL: RETURN AGREEMENT_DATE: 01-AUG-95 PRIORITY CODE: 3

SCREENING DATA: Samples Screened: Counts BELOW Background!

AMENDED

CUSTOMER: RCC; Ron C. Conrad MAIL STOP: K490 PHONE: 667-0950

SIGNATURE: Jan Jackson JAJ TOTAL SAMPLES: _____

COUNTS:

ANALYSIS	TECHNIQUE	ANALYST	DUE	NBR SAMPLES
HEXP	HPLC	214	30-SEP-95	17

REMARKS:

COST ACCOUNT=0300 CC=7C19
AMENDED 8/2/95: DX-16 COULD NOT DO THE WORK SO SAMPLES
ARE BEING SHIPPED OUT.

SAMPLES:

ANALYSIS	SAMPLE	TECHNIQUE	MATRX	TYPE	PRESERVATIVES	HAZARDS	COLLECTED	DUE	ANALST
XP	95.12837-Cut-4	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	214
	95.12838-Cut-3	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	214
	95.12839-Cut-3	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	214
	95.12840-Cut-4	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	214
	95.12841-Cut-4	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	214
	95.12842-Cut-4	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	214
	95.12847-Cut-4	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	214
	95.12848-Cut-4	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	214
	95.12849-Cut-4	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	214
	95.12850-Cut-4	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	214
	95.12852-Cut-2	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	214
	95.12855-Cut-1	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	214
	95.12856-Cut-2	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	214
	95.12857-Cut-1	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	214
	95.12886-Cut-1	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	01-AUG-95	30-SEP-95	214
	95.12887-Cut-1	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	01-AUG-95	30-SEP-95	214

HE for S-site
Burning ground.
Sent to outside lab

TA-16

Agreement	Sample Nbr	Customer Number	Date Collected
22394	95.12886	00.33767	01-AUG-95
22394	95.12887	00.33768	01-AUG-95
22394	95.12857	PRS16-010B10	31-JUL-95
22394	95.12838	PRS16-010B11	31-JUL-95
22394	95.12839	PRS16-010B12	31-JUL-95
22394	95.12840	PRS16-010B13	31-JUL-95
22394	95.12841	PRS16-010B14	31-JUL-95
22394	95.12855	PRS16-010B3	31-JUL-95
22394	95.12856	PRS16-010B5	31-JUL-95
22394	95.12837	PRS16-010B6	31-JUL-95
22394	95.12852	PRS16-010B8	31-JUL-95
22394	95.12842	PRS16-010J1	31-JUL-95
22394	95.12847	PRS16-010J6	31-JUL-95
22394	95.12848	PRS16-010J7	31-JUL-95
22394	95.12849	PRS16-010J8	31-JUL-95
22394	95.12850	PRS16-010J9	31-JUL-95

S- site burning ground
sample ID numbers

4W

EM-9 ANALYTICAL SERVICE AGREEMENT
Samples Assigned Report

REQUEST NBR
22394

'ALYTICAL SECTION: ORGNC PROGRAM FUND CODE: WE5A

MPLE DISPOSAL: RETURN AGREEMENT_DATE: 01-AUG-95 PRIORITY CODE: 3

SCREENING DATA: Samples Screened: Counts BELOW Background!

CUSTOMER: RCC; Ron C. Conrad MAIL STOP: K490 PHONE: 667-0950

SIGNATURE: Jan Jackson JAJ TOTAL SAMPLES: _____

COUNTS:

ANALYSIS	TECHNIQUE	ANALYST	DUE	NBR SAMPLES
HEXP	HPLC	717	30-SEP-95	17

REMARKS:

COST ACCOUNT=0300 CC=7C19

SAMPLES:

ANALYSIS	SAMPLE	TECHNIQUE	MATRX	TYPE	PRESERVATIVES	HAZARDS	COLLECTED	DUE	ANALST
	95.12836-Cut-3	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	717
	95.12837-Cut-4	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	717
	95.12838-Cut-3	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	717
	95.12839-Cut-3	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	717
	95.12840-Cut-4	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	717
	95.12841-Cut-4	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	717
	95.12842-Cut-4	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	717
	95.12847-Cut-4	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	717
	95.12848-Cut-4	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	717
	95.12849-Cut-4	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	717
	95.12850-Cut-4	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	717
	95.12852-Cut-2	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	717
	95.12855-Cut-1	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	717
	95.12856-Cut-2	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	717
	95.12857-Cut-1	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	717
	95.12886-Cut-1	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	01-AUG-95	30-SEP-95	717
	95.12887-Cut-1	HPLC	SS		KEEP AT 4 CELSIUS	NO HAZARDS	01-AUG-95	30-SEP-95	717

S - site
Burning grounds
HE - outside lab

Agreement	Sample Nbr	Customer Number	Date Collected
2394	95.12886	00.33767	01-AUG-95
2394	95.12887	00.33768	01-AUG-95
2394	95.12857	PRS16-010B10	31-JUL-95
22394	95.12838	PRS16-010B11	31-JUL-95
22394	95.12839	PRS16-010B12	31-JUL-95
22394	95.12840	PRS16-010B13	31-JUL-95
22394	95.12841	PRS16-010B14	31-JUL-95
22394	95.12855	PRS16-010B3	31-JUL-95
22394	95.12856	PRS16-010B5	31-JUL-95
22394	95.12837	PRS16-010B6	31-JUL-95
22394	95.12852	PRS16-010B8	31-JUL-95
22394	95.12836	PRS16-010B9	31-JUL-95
22394	95.12842	PRS16-010J1	31-JUL-95
22394	95.12847	PRS16-010J6	31-JUL-95
22394	95.12848	PRS16-010J7	31-JUL-95
22394	95.12849	PRS16-010J8	31-JUL-95
22394	95.12850	PRS16-010J9	31-JUL-95

Form WX-12-1
November 5, 1981

HE DECONTAMINATION SLIP

Date 7-31-95

LOCATION: TA-11 - Bldg. No. _____ TA-28 - Bldg. No. _____

TA-16 - Bldg. No. B6 387, 394 TA-37 - Bldg. No. _____

Item: Soil Samples @ 387 = 14 samples 3 Backgrounds
Soil Sample @ 394 = 11 samples

Property No. _____ Production Order No. _____

Certified for: REPAIR TRANSFER > STORAGE TA-59 CST-3

Method of decontamination: —

Decontaminating Operator: —

Certifying Agent: Bill Milewski

Remarks: NO H.E. contamination detected with H.E. KIT

Job Order No. _____

☆ U S GPO 779-399 6-8

Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

SAMPLE MANAGEMENT RECEIVING RECORD

CUSTOMER INFORMATION

Cost Account 0300

	Group	Phone	Mail Stop	Program Code
Ron Conrad	ESH 19	5-2960	K490	WE5A

PROJECT DESCRIPTION

Customer Sample # PRS 16-01087
(16-01087)

* Metals - 3050 extraction method.

SAMPLE RECEIVING INFORMATION

Received By	Date Received	Sample Matrix	No. Of Samples	Samples Received Under Chain-Of-Custody? ☐ Yes ☐ No
Diane Martinez	8/25/95	SS	1	

Samples Checked For
☒ Preservation ☐ Container Integrity ☐ Sample Size
☐ Sample Integrity Refrig. (4°C)

Condition Of Sample Received
☒ Acceptable
☐ Not Acceptable (Complete an SRD Record)

REQUESTED ANALYSES

Inorganic	Organics	Radio Chemistry
Metals + ~~Total~~ Cr⁺⁶ U	VOA/SVOA	HExplosives
SS	SS	SS
(Hg, As, Se, Ag, BA, Be, Cd, Cr, Ni, Pb, Sb, TL)		
Request No.	Request No.	Request No.

Comments: Collection Date 8/24/95

Customer Signature: Catherine Rivera-Dirks Time 10:30 am Date 8/25/95

Sample Management Custodian Signature: Diane Martinez Date 8/25/95

Form 1349 (4/91)

2559

Customer Copy

EM-9 ANALYTICAL SERVICE AGREEMENT
Samples Assigned Report

REQUEST NUMBER
22529

ANALYTICAL SECTION: INORG
PROGRAM FUND CODE: WE5A
SAMPLE DISPOSAL: Discard
PRIORITY CODE: 3

SCREENING DATA: No Screening Data Required
AGREEMENT_DATE: 25-AUG-95

CUSTOMER: RCC; Ron C. Conrad
MAIL STOP: K490
PHONE: 667-0950
SIGNATURE: _____ DM
TOTAL SAMPLES: _____

REMARKS:

SOIL SAMPLE SUBMITTED FOR METAL ANALYSIS (METHOD 3050)
COST ACCOUNT: 0300

COUNT:

TECHNIQUE	ANALYSIS	ANALYST	DUE	NUMBER SAMPLES
CVAA	HG	AAS	25-OCT-95	1
ETVAA	AS	AAS	25-OCT-95	1
	SE	AAS	25-OCT-95	1
ICPES	AG	OES	25-OCT-95	1
	BA	OES	25-OCT-95	1
	BE	OES	25-OCT-95	1
	CD	OES	25-OCT-95	1
	CR	OES	25-OCT-95	1
	NI	OES	25-OCT-95	1
ICPMS	PB	IMS	25-OCT-95	1
	SB	IMS	25-OCT-95	1
	TL	IMS	25-OCT-95	1

SAMPLE# - CUT#	MATRX TYPE	PRESERVATIVES	HAZARDS	COLLECTED	DUE DATE	TECHNIQUE(ANAL, ANAL,...);
95.14158-Cut3	SS	KEEP AT 4 CELSIUS	NO HAZARDS	24-AUG-95	25-OCT-95	CVAA; ETVAA; ICPES; ICPMS.

EM-9 ANALYTICAL SERVICE AGREEMENT
Samples Assigned Report

REQUEST NBR
22530

LYTICAL SECTION: ORGNC

PROGRAM FUND CODE: WE5A

PRIORITY CODE: 3

SAMPLE DISPOSAL: Discard

AGREEMENT_DATE: 25-AUG-95

SCREENING DATA: No Screening Data Required

CUSTOMER: RCC; Ron C. Conrad

MAIL STOP: K490

PHONE: 667-0950

SIGNATURE: _____ DM

TOTAL SAMPLES: _____

COUNTS:

ANALYSIS	TECHNIQUE	ANALYST	DUE	NBR SAMPLES
SEMIVOL	GCMS	AJL	25-OCT-95	2
VOLATILES	GCMS	JDT	25-OCT-95	3

REMARKS:

SOIL SAMPLE SUBMITTED FOR VOA/SVOA ANALYSIS

.

SAMPLES:

ANALYSIS	SAMPLE	TECHNIQUE	MATRX	TYPE	PRESERVATIVES	HAZARDS	COLLECTED	DUE	ANALST
SEMIVOL	95.14158-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	24-AUG-95	25-OCT-95	AJL
	95.14161-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	24-AUG-95	25-OCT-95	AJL
VOLATILES	95.14158-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	24-AUG-95	25-OCT-95	JDT
					KEEP AT 4 CELSIUS	NO HAZARDS	24-AUG-95	25-OCT-95	JDT
	95.14159-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	24-AUG-95	25-OCT-95	JDT
	95.14160-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	24-AUG-95	25-OCT-95	JDT

Agreement	Sample Nbr	Customer Number	Date Collected
2530	95.14159	00.20227	24-AUG-95
2530	95.14160	00.20227	24-AUG-95
22530	95.14161	00.20227	24-AUG-95
22530	95.14158	PRS16-010B7	24-AUG-95

EM-9 ANALYTICAL SERVICE AGREEMENT
Samples Assigned Report

REQUEST NBR
22531

LYTICAL SECTION: ORGNC PROGRAM FUND CODE: WE5A

PRIORITY CODE: 3

SAMPLE DISPOSAL: Discard AGREEMENT_DATE: 25-AUG-95

SCREENING DATA: No Screening Data Required

CUSTOMER: RCC; Ron C. Conrad MAIL STOP: K490 PHONE: 667-0950

SIGNATURE: _____ DM TOTAL SAMPLES: _____

COUNTS:

ANALYSIS	TECHNIQUE	ANALYST	DUE	NBR SAMPLES
HEXP	HPLC	717	29-SEP-95	2

REMARKS:

SOIL SAMPLES SUBMITTED FOR HIGH EXPLOSIVE ANALYSIS
30-DAY TURN AROUND TIME - DUE DATE: SEPTEMBER 29, 1995

SAMPLES:

ANALYSIS	SAMPLE	TECHNIQUE	MATRX	TYPE	PRESERVATIVES	HAZARDS	COLLECTED	DUE	ANALST
.P	95.14158-Cut-4	HPLC	SS		NO PRESERVS	NO HAZARDS	24-AUG-95	29-SEP-95	717
	95.14162-Cut-1	HPLC	SS	BLANK	NO PRESERVS	NO HAZARDS	24-AUG-95	29-SEP-95	717

Agreement	Sample Nbr	Customer Number	Date Collected
2531	95.14162	00.30757	24-AUG-95
2531	95.14158	PRS16-010B7	24-AUG-95

4w

EM-9 ANALYTICAL SERVICE AGREEMENT
Samples Assigned Report

REQUEST NBR
22531

ALYTICAL SECTION: ORGNC

PROGRAM FUND CODE: WE5A

PRIORITY CODE: 3

SAMPLE DISPOSAL: Discard

AGREEMENT_DATE: 25-AUG-95

SCREENING DATA: No Screening Data Required

CUSTOMER: RCC; Ron C. Conrad

MAIL STOP: K490

PHONE: 667-0950

SIGNATURE: Diana Martinez DM

TOTAL SAMPLES:

COUNTS:

ANALYSIS	TECHNIQUE	ANALYST	DUE	NBR SAMPLES
HEXP	HPLC	717	29-SEP-95	2

REMARKS:

SOIL SAMPLES SUBMITTED FOR HIGH EXPLOSIVE ANALYSIS
30-DAY TURN AROUND TIME - DUE DATE: SEPTEMBER 29, 1995

SAMPLES:

ANALYSIS	SAMPLE	TECHNIQUE	MATRX	TYPE	PRESERVATIVES	HAZARDS	COLLECTED	DUE	ANALST
	95.14158-Cut-4	HPLC	SS		NO PRESERVS	NO HAZARDS	24-AUG-95	29-SEP-95	717
	95.14162-Cut-1	HPLC	SS	BLANK	NO PRESERVS	NO HAZARDS	24-AUG-95	29-SEP-95	717

Last sample
from TA-16
Flash Pad

Agreement	Sample Nbr	Customer Number	Date Collected
2531	95.14162	00.30757	24-AUG-95
2531	95.14158	PRS16-010B7	24-AUG-95

4W

EM-9 ANALYTICAL SERVICE AGREEMENT
Samples Assigned Report

REQUEST NBR
22530

ANALYTICAL SECTION: ORGNC

PROGRAM FUND CODE: WE5A

SAMPLE DISPOSAL: Discard

AGREEMENT_DATE: 25-AUG-95

PRIORITY CODE: 3

SCREENING DATA: No Screening Data Required

CUSTOMER: RCC; Ron C. Conrad

MAIL STOP: K490

PHONE: 667-0950

SIGNATURE: Diana Martinez DM

TOTAL SAMPLES:

COUNTS:

ANALYSIS	TECHNIQUE	ANALYST	DUE	NBR SAMPLES
SEMIVOL	GCMS	AJL	25-OCT-95	2
VOLATILES	GCMS	JDT	25-OCT-95	3

REMARKS:

SOIL SAMPLE SUBMITTED FOR VOA/SVOA ANALYSIS

SAMPLES:

ANALYSIS	SAMPLE	TECHNIQUE	MATRX	TYPE	PRESERVATIVES	HAZARDS	COLLECTED	DUE	ANALST
SEMIVOL	95.14158-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	24-AUG-95	25-OCT-95	AJL
	95.14161-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	24-AUG-95	25-OCT-95	AJL
VOLATILES	95.14158-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	24-AUG-95	25-OCT-95	JDT
					KEEP AT 4 CELSIUS	NO HAZARDS	24-AUG-95	25-OCT-95	JDT
	95.14159-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	24-AUG-95	25-OCT-95	JDT
	95.14160-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	24-AUG-95	25-OCT-95	JDT

last soil sample from the flash pas PKS 16-0106

Agreement	Sample Nbr	Customer Number	Date Collected
2530	95.14159	00.20227	24-AUG-95
2530	95.14160	00.20227	24-AUG-95
22530	95.14161	00.20227	24-AUG-95
22530	95.14158	PRS16-010B7	24-AUG-95

sample ID #

EM-9 ANALYTICAL SERVICE AGREEMENT
Samples Assigned Report

REQUEST NUMBER
22529

ANALYTICAL SECTION: INORG

PROGRAM FUND CODE: WE5A

SAMPLE DISPOSAL: Discard

SCREENING DATA: No Screening Data Required

PRIORITY CODE: 3

AGREEMENT DATE: 25-AUG-95

CUSTOMER: RCC; Ron C. Conrad

MAIL STOP: K490

PHONE: 667-0950

SIGNATURE: Diane D Martin DM

TOTAL SAMPLES: _____

REMARKS:

SOIL SAMPLE SUBMITTED FOR METAL ANALYSIS (METHOD 3050)
COST ACCOUNT: 0300

COUNT:

TECHNIQUE	ANALYSIS	ANALYST	DUE	NUMBER SAMPLES
CVAA	HG	AAS	25-OCT-95	1
ETVAA	AS	AAS	25-OCT-95	1
	SE	AAS	25-OCT-95	1
ICPES	AG	OES	25-OCT-95	1
	BA	OES	25-OCT-95	1
	BE	OES	25-OCT-95	1
	CD	OES	25-OCT-95	1
	CR	OES	25-OCT-95	1
	NI	OES	25-OCT-95	1
ICPMS	PB	IMS	25-OCT-95	1
	SB	IMS	25-OCT-95	1
	TL	IMS	25-OCT-95	1

SAMPLE# - CUT#	MATRX TYPE	PRESERVATIVES	HAZARDS	COLLECTED	DUE DATE	TECHNIQUE(ANAL, ANAL,...);
95.14158-Cut3	SS	KEEP AT 4 CELSIUS	NO HAZARDS	24-AUG-95	25-OCT-95	CVAA; ETVAA; ICPES; ICPMS.

Last sample from
TA-16 Flash pad
PRS-16-0106
sample # 7

Agreement	Sample Nbr	Customer Number	Date Collected
22529	95.14158	PRS16-010B7	24-AUG-95

********** CST ANALYTICAL REPORT **********

HIGH EXPLOSIVES Prepared by: JA on 26-Sep-1995

REQUEST NUMBER: 22394 MATRIX: SS ANALYST: 714 PROGRAM CODE: WE5A NOTEBOOK: !LANL95 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: HPLC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 12836 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/08/95 Date Analyzed: 8/23/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
95.12836	95.12836	1946510	< 0.091		UG/G	9/26/95		4-Amino-2,6-dinitrotoluene
95.12836	95.12836	35572782	< 0.077		UG/G	9/26/95		2-Amino-4,6-dinitrotoluene
95.12836	95.12836	99650	< 0.069		UG/G	9/26/95		1,3-Dinitrobenzene
95.12836	95.12836	121142	< 0.057		UG/G	9/26/95		2,4-Dinitrotoluene
95.12836	95.12836	606202	< 0.08		UG/G	9/26/95		2,6-Dinitrotoluene
95.12836	95.12836	2691410	< 0.166		UG/G	9/26/95		HMX
95.12836	95.12836	98953	< 0.09		UG/G	9/26/95		Nitrobenzene
95.12836	95.12836	99081	< 0.154		UG/G	9/26/95		m-Nitrotoluene
95.12836	95.12836	88722	< 0.156		UG/G	9/26/95		o-Nitrotoluene
95.12836	95.12836	99990	< 0.186		UG/G	9/26/95		p-Nitrotoluene
95.12836	95.12836	121824	< 0.175		UG/G	9/26/95		RDX
95.12836	95.12836	479458	< 0.094		UG/G	9/26/95		Tetryl(methyl-2,4,6-trinitrophenylnitramine)
95.12836	95.12836	99354	< 0.085		UG/G	9/26/95		1,3,5-Trinitrobenzene
95.12836	95.12836	118967	< 0.09		UG/G	9/26/95		2,4,6-Trinitrotoluene

********** CST ANALYTICAL REPORT **********

HIGH EXPLOSIVES Prepared by: JA on 26-Sep-1995

REQUEST NUMBER: 22394 MATRIX: SS ANALYST: 714 PROGRAM CODE: WE5A NOTEBOOK: !LANL95 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: HPLC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12855 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/08/95 Date Analyzed: 8/23/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B3	95.12855	1946510	0.843	0.2529	UG/G	9/26/95		4-Amino-2,6-dinitrotoluene
PRS16-010B3	95.12855	35572782	0.668	0.2004	UG/G	9/26/95		2-Amino-4,6-dinitrotoluene
PRS16-010B3	95.12855	99650	< 0.074		UG/G	9/26/95		1,3-Dinitrobenzene
PRS16-010B3	95.12855	121142	< 0.061		UG/G	9/26/95		2,4-Dinitrotoluene
PRS16-010B3	95.12855	606202	< 0.086		UG/G	9/26/95		2,6-Dinitrotoluene
PRS16-010B3	95.12855	2691410	4.4	1.32	UG/G	9/26/95		HMX
PRS16-010B3	95.12855	98953	< 0.097		UG/G	9/26/95		Nitrobenzene
PRS16-010B3	95.12855	99081	< 0.166		UG/G	9/26/95		m-Nitrotoluene
PRS16-010B3	95.12855	88722	< 0.367		UG/G	9/26/95		o-Nitrotoluene
PRS16-010B3	95.12855	99990	< 0.2		UG/G	9/26/95		p-Nitrotoluene
PRS16-010B3	95.12855	121824	1.45	0.435	UG/G	9/26/95		RDX
PRS16-010B3	95.12855	479458	< 0.101		UG/G	9/26/95		Tetryl(methyl-2,4,6-trinitrophenylnitramine)
PRS16-010B3	95.12855	99354	0.199	0.0597	UG/G	9/26/95		1,3,5-Trinitrobenzene
PRS16-010B3	95.12855	118967	0.479	0.1437	UG/G	9/26/95		2,4,6-Trinitrotoluene

********** CST ANALYTICAL REPORT **********

HIGH EXPLOSIVES Prepared by: JA on 26-Sep-1995

REQUEST NUMBER: 22394 MATRIX: SS ANALYST: 714 PROGRAM CODE: WE5A NOTEBOOK: !LANL95 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: HPLC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12856 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/08/95 Date Analyzed: 8/23/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B5	95.12856	1946510	0.231	0.0693	UG/G	9/26/95		4-Amino-2,6-dinitrotoluene
PRS16-010B5	95.12856	35572782	0.19	0.057	UG/G	9/26/95		2-Amino-4,6-dinitrotoluene
PRS16-010B5	95.12856	99650	< 0.073		UG/G	9/26/95		1,3-Dinitrobenzene
PRS16-010B5	95.12856	121142	< 0.061		UG/G	9/26/95		2,4-Dinitrotoluene
PRS16-010B5	95.12856	606202	< 0.085		UG/G	9/26/95		2,6-Dinitrotoluene
PRS16-010B5	95.12856	2691410	0.417	0.1251	UG/G	9/26/95		HMX
PRS16-010B5	95.12856	98953	< 0.096		UG/G	9/26/95		Nitrobenzene
PRS16-010B5	95.12856	99081	< 0.165		UG/G	9/26/95		m-Nitrotoluene
PRS16-010B5	95.12856	88722	< 0.166		UG/G	9/26/95		o-Nitrotoluene
PRS16-010B5	95.12856	99990	< 0.198		UG/G	9/26/95		p-Nitrotoluene
PRS16-010B5	95.12856	121824	0.711	0.2133	UG/G	9/26/95		RDX
PRS16-010B5	95.12856	479458	< 0.1		UG/G	9/26/95		Tetryl(methyl-2,4,6-trinitrophenylnitramine)
PRS16-010B5	95.12856	99354	< 0.09		UG/G	9/26/95		1,3,5-Trinitrobenzene
PRS16-010B5	95.12856	118967	0.185	0.0555	UG/G	9/26/95		2,4,6-Trinitrotoluene

********** CST ANALYTICAL REPORT **********

HIGH EXPLOSIVES Prepared by: JA on 26-Sep-1995

REQUEST NUMBER: 22394 MATRIX: SS ANALYST: 714 PROGRAM CODE: WE5A NOTEBOOK: !LANL95 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: HPLC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12837 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/08/95 Date Analyzed: 8/22/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B6	95.12837	1946510	1.38	0.414	UG/G	9/26/95		4-Amino-2,6-dinitrotoluene
PRS16-010B6	95.12837	35572782	1.12	0.336	UG/G	9/26/95		2-Amino-4,6-dinitrotoluene
PRS16-010B6	95.12837	99650	< 0.073		UG/G	9/26/95		1,3-Dinitrobenzene
PRS16-010B6	95.12837	121142	0.074	0.0222	UG/G	9/26/95		2,4-Dinitrotoluene
PRS16-010B6	95.12837	606202	< 0.086		UG/G	9/26/95		2,6-Dinitrotoluene
PRS16-010B6	95.12837	2691410	13.7	4.11	UG/G	9/26/95		HMX
PRS16-010B6	95.12837	98953	0.357	0.1071	UG/G	9/26/95		Nitrobenzene
PRS16-010B6	95.12837	99081	< 0.165		UG/G	9/26/95		m-Nitrotoluene
PRS16-010B6	95.12837	88722	< 0.167		UG/G	9/26/95		o-Nitrotoluene
PRS16-010B6	95.12837	99990	< 0.199		UG/G	9/26/95		p-Nitrotoluene
PRS16-010B6	95.12837	121824	11.8	3.54	UG/G	9/26/95		RDX
PRS16-010B6	95.12837	479458	< 0.1		UG/G	9/26/95		Tetryl(methyl-2,4,6-trinitrophenylnitramine)
PRS16-010B6	95.12837	99354	2.74	0.822	UG/G	9/26/95		1,3,5-Trinitrobenzene
PRS16-010B6	95.12837	118967	0.709	0.2127	UG/G	9/26/95		2,4,6-Trinitrotoluene

********** CST ANALYTICAL REPORT **********

HIGH EXPLOSIVES Prepared by: JA on 26-Sep-1995

REQUEST NUMBER: 22394 MATRIX: SS ANALYST: 714 PROGRAM CODE: WE5A NOTEBOOK: !LANL95 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: HPLC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12852 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/08/95 Date Analyzed: 8/23/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B8	95.12852	1946510	< 0.092		UG/G	9/26/95		4-Amino-2,6-dinitrotoluene
PRS16-010B8	95.12852	35572782	< 0.077		UG/G	9/26/95		2-Amino-4,6-dinitrotoluene
PRS16-010B8	95.12852	99650	< 0.069		UG/G	9/26/95		1,3-Dinitrobenzene
PRS16-010B8	95.12852	121142	< 0.057		UG/G	9/26/95		2,4-Dinitrotoluene
PRS16-010B8	95.12852	606202	< 0.08		UG/G	9/26/95		2,6-Dinitrotoluene
PRS16-010B8	95.12852	2691410	1.42	0.426	UG/G	9/26/95		HMX
PRS16-010B8	95.12852	98953	< 0.094		UG/G	9/26/95		Nitrobenzene
PRS16-010B8	95.12852	99081	< 0.155		UG/G	9/26/95		m-Nitrotoluene
PRS16-010B8	95.12852	88722	< 0.156		UG/G	9/26/95		o-Nitrotoluene
PRS16-010B8	95.12852	99990	< 0.186		UG/G	9/26/95		p-Nitrotoluene
PRS16-010B8	95.12852	121824	0.775	0.2325	UG/G	9/26/95		RDX
PRS16-010B8	95.12852	479458	< 0.094		UG/G	9/26/95		Tetryl(methyl-2,4,6-trinitrophenylnitramine)
PRS16-010B8	95.12852	99354	< 0.085		UG/G	9/26/95		1,3,5-Trinitrobenzene
PRS16-010B8	95.12852	118967	< 0.09		UG/G	9/26/95		2,4,6-Trinitrotoluene

********** CST ANALYTICAL REPORT **********

HIGH EXPLOSIVES Prepared by: JA on 26-Sep-1995

REQUEST NUMBER: 22394 MATRIX: SS ANALYST: 714 PROGRAM CODE: WE5A NOTEBOOK: !LANL95 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: HPLC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12857 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/08/95 Date Analyzed: 8/23/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B10	95.12857	1946510	0.094	0.0282	UG/G	9/26/95		4-Amino-2,6-dinitrotoluene
PRS16-010B10	95.12857	35572782	< 0.077		UG/G	9/26/95		2-Amino-4,6-dinitrotoluene
PRS16-010B10	95.12857	99650	< 0.069		UG/G	9/26/95		1,3-Dinitrobenzene
PRS16-010B10	95.12857	121142	< 0.057		UG/G	9/26/95		2,4-Dinitrotoluene
PRS16-010B10	95.12857	606202	< 0.08		UG/G	9/26/95		2,6-Dinitrotoluene
PRS16-010B10	95.12857	2691410	< 0.167		UG/G	9/26/95		HMX
PRS16-010B10	95.12857	98953	< 0.091		UG/G	9/26/95		Nitrobenzene
PRS16-010B10	95.12857	99081	< 0.155		UG/G	9/26/95		m-Nitrotoluene
PRS16-010B10	95.12857	88722	< 0.156		UG/G	9/26/95		o-Nitrotoluene
PRS16-010B10	95.12857	99990	< 0.186		UG/G	9/26/95		p-Nitrotoluene
PRS16-010B10	95.12857	121824	< 0.175		UG/G	9/26/95		RDX
PRS16-010B10	95.12857	479458	< 0.094		UG/G	9/26/95		Tetryl(methyl-2,4,6-trinitrophenylnitramine)
PRS16-010B10	95.12857	99354	< 0.085		UG/G	9/26/95		1,3,5-Trinitrobenzene
PRS16-010B10	95.12857	118967	< 0.09		UG/G	9/26/95		2,4,6-Trinitrotoluene

********** CST ANALYTICAL REPORT **********

HIGH EXPLOSIVES Prepared by: JA on 26-Sep-1995

REQUEST NUMBER: 22394 MATRIX: SS ANALYST: 714 PROGRAM CODE: WE5A NOTEBOOK: !LANL95 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: HPLC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12838 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/08/95 Date Analyzed: 8/22/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B11	95.12838	1946510	0.172	0.0516	UG/G	9/26/95		4-Amino-2,6-dinitrotoluene
PRS16-010B11	95.12838	35572782	0.173	0.0519	UG/G	9/26/95		2-Amino-4,6-dinitrotoluene
PRS16-010B11	95.12838	99650	< 0.068		UG/G	9/26/95		1,3-Dinitrobenzene
PRS16-010B11	95.12838	121142	< 0.057		UG/G	9/26/95		2,4-Dinitrotoluene
PRS16-010B11	95.12838	606202	< 0.08		UG/G	9/26/95		2,6-Dinitrotoluene
PRS16-010B11	95.12838	2691410	22.2	6.66	UG/G	9/26/95		HMX
PRS16-010B11	95.12838	98953	< 0.09		UG/G	9/26/95		Nitrobenzene
PRS16-010B11	95.12838	99081	< 0.154		UG/G	9/26/95		m-Nitrotoluene
PRS16-010B11	95.12838	88722	< 0.155		UG/G	9/26/95		o-Nitrotoluene
PRS16-010B11	95.12838	99990	< 0.185		UG/G	9/26/95		p-Nitrotoluene
PRS16-010B11	95.12838	121824	1.15	0.345	UG/G	9/26/95		RDX
PRS16-010B11	95.12838	479458	< 0.093		UG/G	9/26/95		Tetryl(methyl-2,4,6-trinitrophenylnitramine)
PRS16-010B11	95.12838	99354	< 0.084		UG/G	9/26/95		1,3,5-Trinitrobenzene
PRS16-010B11	95.12838	118967	< 0.089		UG/G	9/26/95		2,4,6-Trinitrotoluene

********** CST ANALYTICAL REPORT **********

HIGH EXPLOSIVES Prepared by: JA on 26-Sep-1995

REQUEST NUMBER: 22394 MATRIX: SS ANALYST: 714 PROGRAM CODE: WE5A NOTEBOOK: !LANL95 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: HPLC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12839 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/08/95 Date Analyzed: 8/22/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B12	95.12839	1946510	< 0.091		UG/G	9/26/95		4-Amino-2,6-dinitrotoluene
PRS16-010B12	95.12839	35572782	< 0.077		UG/G	9/26/95		2-Amino-4,6-dinitrotoluene
PRS16-010B12	95.12839	99650	< 0.069		UG/G	9/26/95		1,3-Dinitrobenzene
PRS16-010B12	95.12839	121142	< 0.057		UG/G	9/26/95		2,4-Dinitrotoluene
PRS16-010B12	95.12839	606202	< 0.08		UG/G	9/26/95		2,6-Dinitrotoluene
PRS16-010B12	95.12839	2691410	< 0.166		UG/G	9/26/95		HMX
PRS16-010B12	95.12839	98953	< 0.09		UG/G	9/26/95		Nitrobenzene
PRS16-010B12	95.12839	99081	< 0.154		UG/G	9/26/95		m-Nitrotoluene
PRS16-010B12	95.12839	88722	< 0.156		UG/G	9/26/95		o-Nitrotoluene
PRS16-010B12	95.12839	99990	< 0.186		UG/G	9/26/95		p-Nitrotoluene
PRS16-010B12	95.12839	121824	< 0.175		UG/G	9/26/95		RDX
PRS16-010B12	95.12839	479458	< 0.094		UG/G	9/26/95		Tetryl(methyl-2,4,6-trinitrophenylnitramine)
PRS16-010B12	95.12839	99354	< 0.084		UG/G	9/26/95		1,3,5-Trinitrobenzene
PRS16-010B12	95.12839	118967	< 0.09		UG/G	9/26/95		2,4,6-Trinitrotoluene

********** CST ANALYTICAL REPORT **********

HIGH EXPLOSIVES Prepared by: JA on 26-Sep-1995

REQUEST NUMBER: 22394 MATRIX: SS ANALYST: 714 PROGRAM CODE: WE5A NOTEBOOK: !LANL95 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: HPLC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12840 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/08/95 Date Analyzed: 8/22/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B13	95.12840	1946510	0.172	0.0516	UG/G	9/26/95		4-Amino-2,6-dinitrotoluene
PRS16-010B13	95.12840	35572782	0.124	0.0372	UG/G	9/26/95		2-Amino-4,6-dinitrotoluene
PRS16-010B13	95.12840	99650	< 0.068		UG/G	9/26/95		1,3-Dinitrobenzene
PRS16-010B13	95.12840	121142	< 0.056		UG/G	9/26/95		2,4-Dinitrotoluene
PRS16-010B13	95.12840	606202	< 0.079		UG/G	9/26/95		2,6-Dinitrotoluene
PRS16-010B13	95.12840	2691410	0.673	0.2019	UG/G	9/26/95		HMX
PRS16-010B13	95.12840	98953	< 0.09		UG/G	9/26/95		Nitrobenzene
PRS16-010B13	95.12840	99081	< 0.153		UG/G	9/26/95		m-Nitrotoluene
PRS16-010B13	95.12840	88722	< 0.154		UG/G	9/26/95		o-Nitrotoluene
PRS16-010B13	95.12840	99990	< 0.184		UG/G	9/26/95		p-Nitrotoluene
PRS16-010B13	95.12840	121824	1.69	0.507	UG/G	9/26/95		RDX
PRS16-010B13	95.12840	479458	< 0.093		UG/G	9/26/95		Tetryl(methyl-2,4,6-trinitrophenylnitramine)
PRS16-010B13	95.12840	99354	< 0.084		UG/G	9/26/95		1,3,5-Trinitrobenzene
PRS16-010B13	95.12840	118967	< 0.089		UG/G	9/26/95		2,4,6-Trinitrotoluene

********** CST ANALYTICAL REPORT **********

HIGH EXPLOSIVES Prepared by: JA on 26-Sep-1995

REQUEST NUMBER: 22394 MATRIX: SS ANALYST: 714 PROGRAM CODE: WE5A NOTEBOOK: !LANL95 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: HPLC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12841 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/08/95 Date Analyzed: 8/22/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B14	95.12841	1946510	< 0.094		UG/G	9/26/95		4-Amino-2,6-dinitrotoluene
PRS16-010B14	95.12841	35572782	< 0.079		UG/G	9/26/95		2-Amino-4,6-dinitrotoluene
PRS16-010B14	95.12841	99650	< 0.07		UG/G	9/26/95		1,3-Dinitrobenzene
PRS16-010B14	95.12841	121142	< 0.058		UG/G	9/26/95		2,4-Dinitrotoluene
PRS16-010B14	95.12841	606202	< 0.082		UG/G	9/26/95		2,6-Dinitrotoluene
PRS16-010B14	95.12841	2691410	< 0.17		UG/G	9/26/95		HMX
PRS16-010B14	95.12841	98953	< 0.093		UG/G	9/26/95		Nitrobenzene
PRS16-010B14	95.12841	99081	< 0.158		UG/G	9/26/95		m-Nitrotoluene
PRS16-010B14	95.12841	88722	< 0.16		UG/G	9/26/95		o-Nitrotoluene
PRS16-010B14	95.12841	99990	< 0.191		UG/G	9/26/95		p-Nitrotoluene
PRS16-010B14	95.12841	121824	< 0.179		UG/G	9/26/95		RDX
PRS16-010B14	95.12841	479458	< 0.096		UG/G	9/26/95		Tetryl(methyl-2,4,6-trinitrophenylnitramine)
PRS16-010B14	95.12841	99354	< 0.087		UG/G	9/26/95		1,3,5-Trinitrobenzene
PRS16-010B14	95.12841	118967	< 0.092		UG/G	9/26/95		2,4,6-Trinitrotoluene

********** CST ANALYTICAL REPORT **********

HIGH EXPLOSIVES Prepared by: JA on 26-Sep-1995

REQUEST NUMBER: 22394 MATRIX: SS ANALYST: 714 PROGRAM CODE: WE5A NOTEBOOK: !LANL95 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: HPLC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12842 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/08/95 Date Analyzed: 8/22/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J1	95.12842	1946510	< 0.096		UG/G	9/26/95		4-Amino-2,6-dinitrotoluene
PRS16-010J1	95.12842	35572782	0.147	0.0441	UG/G	9/26/95		2-Amino-4,6-dinitrotoluene
PRS16-010J1	95.12842	99650	< 0.072		UG/G	9/26/95		1,3-Dinitrobenzene
PRS16-010J1	95.12842	121142	< 0.06		UG/G	9/26/95		2,4-Dinitrotoluene
PRS16-010J1	95.12842	606202	< 0.084		UG/G	9/26/95		2,6-Dinitrotoluene
PRS16-010J1	95.12842	2691410	1210.	363.	UG/G	9/26/95		HMX
PRS16-010J1	95.12842	98953	< 0.095		UG/G	9/26/95		Nitrobenzene
PRS16-010J1	95.12842	99081	< 0.163		UG/G	9/26/95		m-Nitrotoluene
PRS16-010J1	95.12842	88722	< 0.164		UG/G	9/26/95		o-Nitrotoluene
PRS16-010J1	95.12842	99990	< 0.196		UG/G	9/26/95		p-Nitrotoluene
PRS16-010J1	95.12842	121824	38.1	11.43	UG/G	9/26/95		RDX
PRS16-010J1	95.12842	479458	< 0.099		UG/G	9/26/95		Tetryl(methyl-2,4,6-trinitrophenylnitramine)
PRS16-010J1	95.12842	99354	< 0.089		UG/G	9/26/95		1,3,5-Trinitrobenzene
PRS16-010J1	95.12842	118967	1.64	0.492	UG/G	9/26/95		2,4,6-Trinitrotoluene

********** CST ANALYTICAL REPORT **********

HIGH EXPLOSIVES Prepared by: JA on 26-Sep-1995

REQUEST NUMBER: 22394 MATRIX: SS ANALYST: 714 PROGRAM CODE: WE5A NOTEBOOK: !LANL95 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: HPLC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12847 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/08/95 Date Analyzed: 8/22/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J6	95.12847	1946510	< 0.091		UG/G	9/26/95		4-Amino-2,6-dinitrotoluene
PRS16-010J6	95.12847	35572782	< 0.077		UG/G	9/26/95		2-Amino-4,6-dinitrotoluene
PRS16-010J6	95.12847	99650	< 0.068		UG/G	9/26/95		1,3-Dinitrobenzene
PRS16-010J6	95.12847	121142	< 0.057		UG/G	9/26/95		2,4-Dinitrotoluene
PRS16-010J6	95.12847	606202	< 0.08		UG/G	9/26/95		2,6-Dinitrotoluene
PRS16-010J6	95.12847	2691410	1.87	0.561	UG/G	9/26/95		HMX
PRS16-010J6	95.12847	98953	< 0.09		UG/G	9/26/95		Nitrobenzene
PRS16-010J6	95.12847	99081	< 0.154		UG/G	9/26/95		m-Nitrotoluene
PRS16-010J6	95.12847	88722	< 0.155		UG/G	9/26/95		o-Nitrotoluene
PRS16-010J6	95.12847	99990	< 0.185		UG/G	9/26/95		p-Nitrotoluene
PRS16-010J6	95.12847	121824	0.467	0.1401	UG/G	9/26/95		RDX
PRS16-010J6	95.12847	479458	< 0.093		UG/G	9/26/95		Tetryl(methyl-2,4,6-trinitrophenylnitramine)
PRS16-010J6	95.12847	99354	< 0.084		UG/G	9/26/95		1,3,5-Trinitrobenzene
PRS16-010J6	95.12847	118967	0.153	0.0459	UG/G	9/26/95		2,4,6-Trinitrotoluene

********** CST ANALYTICAL REPORT **********

HIGH EXPLOSIVES Prepared by: JA on 26-Sep-1995

REQUEST NUMBER: 22394 MATRIX: SS ANALYST: 714 PROGRAM CODE: WE5A NOTEBOOK: !LANL95 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: HPLC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12848 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/08/95 Date Analyzed: 8/22/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J7	95.12848	1946510	< 0.092		UG/G	9/26/95		4-Amino-2,6-dinitrotoluene
PRS16-010J7	95.12848	35572782	< 0.078		UG/G	9/26/95		2-Amino-4,6-dinitrotoluene
PRS16-010J7	95.12848	99650	< 0.069		UG/G	9/26/95		1,3-Dinitrobenzene
PRS16-010J7	95.12848	121142	< 0.057		UG/G	9/26/95		2,4-Dinitrotoluene
PRS16-010J7	95.12848	606202	< 0.081		UG/G	9/26/95		2,6-Dinitrotoluene
PRS16-010J7	95.12848	2691410	1.02	0.306	UG/G	9/26/95		HMX
PRS16-010J7	95.12848	98953	< 0.091		UG/G	9/26/95		Nitrobenzene
PRS16-010J7	95.12848	99081	< 0.156		UG/G	9/26/95		m-Nitrotoluene
PRS16-010J7	95.12848	88722	< 0.157		UG/G	9/26/95		o-Nitrotoluene
PRS16-010J7	95.12848	99990	< 0.187		UG/G	9/26/95		p-Nitrotoluene
PRS16-010J7	95.12848	121824	< 0.176		UG/G	9/26/95		RDX
PRS16-010J7	95.12848	479458	< 0.094		UG/G	9/26/95		Tetryl(methyl-2,4,6-trinitrophenylnitramine)
PRS16-010J7	95.12848	99354	< 0.085		UG/G	9/26/95		1,3,5-Trinitrobenzene
PRS16-010J7	95.12848	118967	< 0.09		UG/G	9/26/95		2,4,6-Trinitrotoluene

********** CST ANALYTICAL REPORT **********

HIGH EXPLOSIVES Prepared by: JA on 26-Sep-1995

REQUEST NUMBER: 22394 MATRIX: SS ANALYST: 714 PROGRAM CODE: WE5A NOTEBOOK: !LANL95 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: HPLC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12849 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/08/95 Date Analyzed: 8/23/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J8	95.12849	1946510	< 0.093		UG/G	9/26/95		4-Amino-2,6-dinitrotoluene
PRS16-010J8	95.12849	35572782	< 0.079		UG/G	9/26/95		2-Amino-4,6-dinitrotoluene
PRS16-010J8	95.12849	99650	< 0.07		UG/G	9/26/95		1,3-Dinitrobenzene
PRS16-010J8	95.12849	121142	< 0.058		UG/G	9/26/95		2,4-Dinitrotoluene
PRS16-010J8	95.12849	606202	< 0.082		UG/G	9/26/95		2,6-Dinitrotoluene
PRS16-010J8	95.12849	2691410	5.75	1.725	UG/G	9/26/95		HMX
PRS16-010J8	95.12849	98953	< 0.093		UG/G	9/26/95		Nitrobenzene
PRS16-010J8	95.12849	99081	< 0.158		UG/G	9/26/95		m-Nitrotoluene
PRS16-010J8	95.12849	88722	< 0.159		UG/G	9/26/95		o-Nitrotoluene
PRS16-010J8	95.12849	99990	< 0.19		UG/G	9/26/95		p-Nitrotoluene
PRS16-010J8	95.12849	121824	< 0.179		UG/G	9/26/95		RDX
PRS16-010J8	95.12849	479458	< 0.096		UG/G	9/26/95		Tetryl(methyl-2,4,6-trinitrophenylnitramine)
PRS16-010J8	95.12849	99354	< 0.087		UG/G	9/26/95		1,3,5-Trinitrobenzene
PRS16-010J8	95.12849	118967	< 0.092		UG/G	9/26/95		2,4,6-Trinitrotoluene

********** CST ANALYTICAL REPORT **********

HIGH EXPLOSIVES Prepared by: JA on 26-Sep-1995

REQUEST NUMBER: 22394 MATRIX: SS ANALYST: 714 PROGRAM CODE: WE5A NOTEBOOK: !LANL95 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: HPLC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12850 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/08/95 Date Analyzed: 8/23/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J9	95.12850	1946510	< 0.094		UG/G	9/26/95		4-Amino-2,6-dinitrotoluene
PRS16-010J9	95.12850	35572782	< 0.079		UG/G	9/26/95		2-Amino-4,6-dinitrotoluene
PRS16-010J9	95.12850	99650	< 0.07		UG/G	9/26/95		1,3-Dinitrobenzene
PRS16-010J9	95.12850	121142	< 0.058		UG/G	9/26/95		2,4-Dinitrotoluene
PRS16-010J9	95.12850	606202	< 0.082		UG/G	9/26/95		2,6-Dinitrotoluene
PRS16-010J9	95.12850	2691410	< 0.171		UG/G	9/26/95		HMX
PRS16-010J9	95.12850	98953	< 0.093		UG/G	9/26/95		Nitrobenzene
PRS16-010J9	95.12850	99081	< 0.159		UG/G	9/26/95		m-Nitrotoluene
PRS16-010J9	95.12850	88722	< 0.16		UG/G	9/26/95		o-Nitrotoluene
PRS16-010J9	95.12850	99990	< 0.191		UG/G	9/26/95		p-Nitrotoluene
PRS16-010J9	95.12850	121824	< 0.179		UG/G	9/26/95		RDX
PRS16-010J9	95.12850	479458	< 0.096		UG/G	9/26/95		Tetryl(methyl-2,4,6-trinitrophenylnitramine)
PRS16-010J9	95.12850	99354	< 0.087		UG/G	9/26/95		1,3,5-Trinitrobenzene
PRS16-010J9	95.12850	118967	< 0.092		UG/G	9/26/95		2,4,6-Trinitrotoluene

********** EM-9 QUALITY ASSURANCE REPORT **********

HIGH EXPLOSIVES Prepared by: JA on 26-Sep-1995

REQUEST NUMBER: 22394 MATRIX: SS ANALYST: 714 PROGRAM CODE: WE5A NOTEBOOK: !LANL95 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: HPLC ANALYTICAL PROCEDURE: EPA SW-846 3RD

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QA SAMPLES RUN WITH THIS BATCH

There were no open (non-blind) Quality Control materials run with the samples reported above for one of the following reasons:

____ Only qualitative data requested

____ Only Blind QC samples run with this batch.

____ No QC samples run with this sample batch.

____ No QC samples for this constituent and matrix type available within CST

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLANK QC SAMPLES RUN WITH THIS BATCH

Blank Results, Sample # 95.15475 Date Collected: 9/25/95 Date Received: 8/01/95 Date Extracted: 8/08/95 Date Analyzed: 8/22/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.28452	95.15475	1946510	< 0.09		MG/KG	0.0		9/26/95	UNDER CONTROL	4-Amino-2,6-dinitrotoluene
00.28452	95.15475	35572782	< 0.076		MG/KG	0.0		9/26/95	UNDER CONTROL	2-Amino-4,6-dinitrotoluene
00.28452	95.15475	99650	< 0.068		MG/KG	0.0		9/26/95	UNDER CONTROL	1,3-Dinitrobenzene
00.28452	95.15475	121142	< 0.056		MG/KG	0.0		9/26/95	UNDER CONTROL	2,4-Dinitrotoluene
00.28452	95.15475	606202	< 0.079		MG/KG	0.0		9/26/95	UNDER CONTROL	2,6-Dinitrotoluene
00.28452	95.15475	2691410	< 0.173		MG/KG	0.0		9/26/95	UNDER CONTROL	HMX
00.28452	95.15475	98953	< 0.089		MG/KG	0.0		9/26/95	UNDER CONTROL	Nitrobenzene
00.28452	95.15475	99081	< 0.153		MG/KG	0.0		9/26/95	UNDER CONTROL	m-Nitrotoluene
00.28452	95.15475	88722	< 0.154		MG/KG	0.0		9/26/95	UNDER CONTROL	o-Nitrotoluene
00.28452	95.15475	99990	< 0.184		MG/KG	0.0		9/26/95	UNDER CONTROL	p-Nitrotoluene
00.28452	95.15475	121824	< 0.173		MG/KG	0.0		9/26/95	UNDER CONTROL	RDX
00.28452	95.15475	479458	< 0.093		MG/KG	0.0		9/26/95	UNDER CONTROL	Tetryl(methyl-2,4,6-trinitrophenylni
00.28452	95.15475	99354	< 0.084		MG/KG	0.0		9/26/95	UNDER CONTROL	1,3,5-Trinitrobenzene
00.28452	95.15475	118967	< 0.089		MG/KG	0.0		9/26/95	UNDER CONTROL	2,4,6-Trinitrotoluene

Blank Spike Results: none

Blank Spike Duplicate Results: none

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLIND QA SAMPLES RUN WITH THIS BATCH

Blind QC Results, Sample # 95.12886 Date Collected: 8/01/95 Date Received: 8/01/95 Date Extracted: 8/08/95 Date Analyzed: 8/23/95

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
95.12886	1946510	< 0.09		UG/G	0.0		9/26/95	UNDER CONTROL	4-Amino-2,6-dinitrotoluene
95.12886	35572782	< 0.076		UG/G	0.0		9/26/95	UNDER CONTROL	2-Amino-4,6-dinitrotoluene
95.12886	99650	3.74	1.122	UG/G	4.01	0.401	9/26/95	UNDER CONTROL	1,3-Dinitrobenzene
95.12886	121142	3.74	1.122	UG/G	4.	0.4	9/26/95	UNDER CONTROL	2,4-Dinitrotoluene
95.12886	606202	< 0.079		UG/G	0.0		9/26/95	UNDER CONTROL	2,6-Dinitrotoluene
95.12886	2691410	4.05	1.215	UG/G	4.01	0.401	9/26/95	UNDER CONTROL	HMX
95.12886	98953	3.54	1.062	UG/G	4.	0.4	9/26/95	UNDER CONTROL	Nitrobenzene
95.12886	99081	< 0.153		UG/G	0.0		9/26/95	UNDER CONTROL	m-Nitrotoluene
95.12886	88722	< 0.154		UG/G	0.0		9/26/95	UNDER CONTROL	o-Nitrotoluene
95.12886	99990	< 0.184		UG/G	0.0		9/26/95	UNDER CONTROL	p-Nitrotoluene
95.12886	121824	3.67	1.101	UG/G	4.01	0.401	9/26/95	UNDER CONTROL	RDX
95.12886	479458	3.43	1.029	UG/G	6.01	0.601	9/26/95	WARNING 2-3 SIG	Tetryl(methyl-2,4,6-trinitrophenylnitrami
95.12886	99354	3.18	0.954	UG/G	4.01	0.401	9/26/95	UNDER CONTROL	1,3,5-Trinitrobenzene
95.12886	118967	3.8	1.14	UG/G	4.	0.4	9/26/95	UNDER CONTROL	2,4,6-Trinitrotoluene

Blind QC Results, Sample # 95.12887 Date Collected: 8/01/95 Date Received: 8/01/95 Date Extracted: 8/08/95 Date Analyzed: 8/23/95

95.12887	1946510	< 0.09		UG/G	0.0		9/26/95	UNDER CONTROL	4-Amino-2,6-dinitrotoluene
95.12887	35572782	< 0.076		UG/G	0.0		9/26/95	UNDER CONTROL	2-Amino-4,6-dinitrotoluene
95.12887	99650	< 0.068		UG/G	0.0		9/26/95	UNDER CONTROL	1,3-Dinitrobenzene
95.12887	121142	< 0.056		UG/G	0.0		9/26/95	UNDER CONTROL	2,4-Dinitrotoluene
95.12887	606202	4.56	1.368	UG/G	5.	0.5	9/26/95	UNDER CONTROL	2,6-Dinitrotoluene
95.12887	2691410	< 0.164		UG/G	0.0		9/26/95	UNDER CONTROL	HMX
95.12887	98953	6.38	1.914	UG/G	7.01	0.701	9/26/95	UNDER CONTROL	Nitrobenzene
95.12887	99081	5.17	1.551	UG/G	5.01	0.501	9/26/95	UNDER CONTROL	m-Nitrotoluene

95.1288	88722	4.94	1.482	UG/G	5.	0.5	9/26/95	UNDER CONTROL	o-Nitrotoluene
95.12887	99990	5.08	1.524	UG/G	5.	0.5	9/26/95	UNDER CONTROL	p-Nitrotoluene
95.12887	121824	< 0.173		UG/G	0.0		9/26/95	UNDER CONTROL	RDX
95.12887	479458	< 0.093		UG/G	5.13	0.513	9/26/95	OUT OF CONTROL	Tetryl(methyl-2,4,6-trinitrophenylnitrami
95.12887	99354	< 0.084		UG/G	0.0		9/26/95	UNDER CONTROL	1,3,5-Trinitrobenzene
95.12887	118967	< 0.089		UG/G	0.0		9/26/95	UNDER CONTROL	2,4,6-Trinitrotoluene

********** EM-9 QUALITY ASSURANCE REPORT **********

SURROGATE RESULTS FOR HIGH EXPLOSIVES

Surrogate 1 = 1,4-Dinitrobenzene (CAS # = 100254)
Surrogate 2 = 4-Nitro-ethylbenzene (CAS # = 100129)
Surrogate 3 = 3,4-Dinitrotoluene (CAS # = 610399)
Surrogate 4 = 2-Methyl-5-Nitroaniline (CAS # = 99558)

SAMPLE NUMBER	UNITS	Surrogate 1	Surrogate 2	Surrogate 3	Surrogate 4	COMPLETION DATE	SAMPLE TYPE
95.12836	%	0.0		100.		26-Sep-1995	
95.12837	%	0.0		94.		26-Sep-1995	
95.12838	%	0.0		100.		26-Sep-1995	
95.12839	%	0.0		104.		26-Sep-1995	
95.12840	%	0.0		95.		26-Sep-1995	
95.12841	%	0.0		66.		26-Sep-1995	
95.12842	%	0.0		110.		26-Sep-1995	
95.12847	%	0.0		100.		26-Sep-1995	
95.12848	%	0.0		100.		26-Sep-1995	
95.12849	%	0.0		104.		26-Sep-1995	
95.12850	%	0.0		98.		26-Sep-1995	
95.12852	%	0.0		101.		26-Sep-1995	
95.12855	%	0.0		101.		26-Sep-1995	
95.12856	%	0.0		102.		26-Sep-1995	
95.12857	%	0.0		96.		26-Sep-1995	
95.12886	%	0.0		100.		26-Sep-1995	
95.12887	%	0.0		104.		26-Sep-1995	
95.15475	%	0.0		100.		26-Sep-1995	B
EPA Limits:							
Soil	%	20 - 150	None	None			

********** EM-9 QUALITY ASSURANCE REPORT **********

REPORT NUMBER: 38393

Analyst	Reviewer	Team Leader	QA Officer
			NK for MAG
Date	Date	Date	Date
			9/27/95

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in
'Quality Assurance for Health and Environmental Chemistry: 1992,' LA-12790-MS, Vol. I, pp. 19-20

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MEMORANDUM

To: Ron C. Conrad
From: David V. Martinez
Subject: High Explosives, Request 22531
Date: September 26, 1995

One soil sample was analyzed by DX-16 High Explosives by EPA method 8330. The sample was analyzed according to this method, with a surrogate compound added and calibration curves analyzed as required. Second column analysis was done for the sample of this request, since HMX, RDX, 1,3,5-Trinitrobenzene and 2,4,6-Trinitrotoluene were detected at levels greater than the detection limit. These compounds were all confirmed by second column analysis.

Surrogate recovery was acceptable for the sample of this request.

No problems were reported with the analysis of the sample in this request.

********** CST ANALYTICAL REPORT **********

HIGH EXPLOSIVES Prepared by: BLA on 26-Sep-1995

REQUEST NUMBER: 22531 MATRIX: SS ANALYST: 717 PROGRAM CODE: WE5A NOTEBOOK: 22332 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: HPLC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.14158 Date Collected: 8/24/95 Date Received: 8/25/95 Date Extracted: 8/30/95 Date Analyzed: 9/05/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B7	95.14158	1946510	< 0.13		MG/KG	9/26/95		4-Amino-2,6-dinitrotoluene
PRS16-010B7	95.14158	35572782	< 0.13		MG/KG	9/26/95		2-Amino-4,6-dinitrotoluene
PRS16-010B7	95.14158	99650	< 0.13		MG/KG	9/26/95		1,3-Dinitrobenzene
PRS16-010B7	95.14158	121142	< 0.13		MG/KG	9/26/95		2,4-Dinitrotoluene
PRS16-010B7	95.14158	606202	< 0.13		MG/KG	9/26/95		2,6-Dinitrotoluene
PRS16-010B7	95.14158	2691410	19.006	5.7018	MG/KG	9/26/95		HMX
PRS16-010B7	95.14158	98953	< 0.13		MG/KG	9/26/95		Nitrobenzene
PRS16-010B7	95.14158	99081	< 0.13		MG/KG	9/26/95		m-Nitrotoluene
PRS16-010B7	95.14158	88722	< 0.13		MG/KG	9/26/95		o-Nitrotoluene
PRS16-010B7	95.14158	99990	< 0.13		MG/KG	9/26/95		p-Nitrotoluene
PRS16-010B7	95.14158	121824	11.547	3.4641	MG/KG	9/26/95		RDX
PRS16-010B7	95.14158	479458	< 0.33		MG/KG	9/26/95		Tetryl(methyl-2,4,6-trinitrophenylnitramine)
PRS16-010B7	95.14158	99354	0.332	0.0996	MG/KG	9/26/95		1,3,5-Trinitrobenzene
PRS16-010B7	95.14158	118967	9.886	2.9658	MG/KG	9/26/95		2,4,6-Trinitrotoluene

********** EM-9 QUALITY ASSURANCE REPORT **********

HIGH EXPLOSIVES Prepared by: BLA on 26-Sep-1995

REQUEST NUMBER: 22531 MATRIX: SS ANALYST: 717 PROGRAM CODE: WE5A NOTEBOOK: 22332 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: HPLC ANALYTICAL PROCEDURE: EPA SW-846 3RD

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QA SAMPLES RUN WITH THIS BATCH

There were no open (non-blind) Quality Control materials run with the samples reported above for one of the following reasons:

____ Only qualitative data requested

____ Only Blind QC samples run with this batch.

____ No QC samples run with this sample batch.

____ No QC samples for this constituent and matrix type available within CST

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLANK QC SAMPLES RUN WITH THIS BATCH

Blank Results, Sample # 95.14162 Date Collected: 8/24/95 Date Received: 8/25/95 Date Extracted: 8/30/95 Date Analyzed: 9/05/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.30757	95.14162	1946510	< 0.13		MG/KG	0.0		9/26/95	UNDER CONTROL	4-Amino-2,6-dinitrotoluene
00.30757	95.14162	35572782	< 0.13		MG/KG	0.0		9/26/95	UNDER CONTROL	2-Amino-4,6-dinitrotoluene
00.30757	95.14162	99650	< 0.13		MG/KG	0.0		9/26/95	UNDER CONTROL	1,3-Dinitrobenzene
00.30757	95.14162	121142	< 0.13		MG/KG	0.0		9/26/95	UNDER CONTROL	2,4-Dinitrotoluene
00.30757	95.14162	606202	< 0.13		MG/KG	0.0		9/26/95	UNDER CONTROL	2,6-Din[illegible]toluene
00.30757	95.14162	2691410	< 1.1		MG/KG	0.0		9/26/95	UNDER CONTROL	HMX
00.30757	95.14162	98953	< 0.13		MG/KG	0.0		9/26/95	UNDER CONTROL	Nitrobenzene
00.30757	95.14162	99081	< 0.13		MG/KG	0.0		9/26/95	UNDER CONTROL	m-Nitrotoluene
00.30757	95.14162	88722	< 0.13		MG/KG	0.0		9/26/95	UNDER CONTROL	o-Nitrotoluene
00.30757	95.14162	99990	< 0.13		MG/KG	0.0		9/26/95	UNDER CONTROL	p-Nitrotoluene
00.30757	95.14162	121824	< 0.5		MG/KG	0.0		9/26/95	UNDER CONTROL	RDX
00.30757	95.14162	479458	< 0.33		MG/KG	0.0		9/26/95	UNDER CONTROL	Tetryl(methyl-2,4,6-trinitrophenyln
00.30757	95.14162	99354	< 0.13		MG/KG	0.0		9/26/95	UNDER CONTROL	1,3,5-Trinitrobenzene
00.30757	95.14162	118967	< 0.13		MG/KG	0.0		9/26/95	UNDER CONTROL	2,4,6-Trinitrotoluene

Blank Spike Results: none

Blank Spike Duplicate Results: none

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLIND QA SAMPLES RUN WITH THIS BATCH

There were no blind Quality Control materials run with the samples reported above for one of the following reasons:

____ Only qualitative data requested

____ Only Open (non-blind) QC samples run with this sample batch.

____ No QC samples run with this sample batch.

____ No QC samples for this constituent and matrix type available within CST

********** EM-9 QUALITY ASSURANCE REPORT **********

SURROGATE RESULTS FOR HIGH EXPLOSIVES

Surrogate 1 = 1,4-Dinitrobenzene (CAS # = 100254)
Surrogate 2 = 4-Nitro-ethylbenzene (CAS # = 100129)
Surrogate 3 = 3,4-Dinitrotoluene (CAS # = 610399)
Surrogate 4 = 2-Methyl-5-Nitroaniline (CAS # = 99558)

SAMPLE NUMBER	UNITS	Surrogate 1	Surrogate 2	Surrogate 3	Surrogate 4	COMPLETION DATE	SAMPLE TYPE
95.14158	%	0.0		0.0	90.	26-Sep-1995	
95.14162	%	0.0		0.0	100.	26-Sep-1995	B
EPA Limits:							
Soil	%	20 - 150	None	None			

REPORT NUMBER: 38392

Analyst	Reviewer	Team Leader	QA Officer
	[illegible]		NK for MAG
Date	9-27-95 Date	Date	9-27-95 Date

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1992,' LA-12790-MS, Vol. I, pp. 19-20

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********** CST ANALYTICAL REPORT **********

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: JEFFREY ROBERTS PROGRAM CODE: WE5A NOTEBOOK: PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCFID ANALYTICAL PROCEDURE:

Customer Sample Results, Sample # 95.12837 Date Collected: Date Received: Date Extracted: Date Analyzed:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B6	95.12837	177	280.	92.	MG/KG	9/07/95		Petroleum Hydrocarbons, Total Recoverable

TA-16
Burning ground

Entered
CRD
TA16S.xls
9/95

********** CST ANALYTICAL REPORT **********

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: JEFFREY ROBERTS PROGRAM CODE: WE5A NOTEBOOK: PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCFID ANALYTICAL PROCEDURE:

Customer Sample Results, Sample # 95.12840 Date Collected: Date Received: Date Extracted: Date Analyzed:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B13	95.12840	177	17.	5.7	MG/KG	9/07/95		Petroleum Hydrocarbons, Total Recoverable

********** CST ANALYTICAL REPORT **********

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: JEFFREY ROBERTS PROGRAM CODE: WE5A NOTEBOOK: PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCFID ANALYTICAL PROCEDURE:

Customer Sample Results, Sample # 95.12841 Date Collected: Date Received: Date Extracted: Date Analyzed:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B14	95.12841	177	190.	63.3	MG/KG	9/07/95		Petroleum Hydrocarbons, Total Recoverable

********** CST ANALYTICAL REPORT **********

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: JEFFREY ROBERTS PROGRAM CODE: WE5A NOTEBOOK: PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCFID ANALYTICAL PROCEDURE:

Customer Sample Results, Sample # 95.12842 Date Collected: Date Received: Date Extracted: Date Analyzed:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J1	95.12842	177	510.	168.	MG/KG	9/07/95		Petroleum Hydrocarbons, Total Recoverable

********** CST ANALYTICAL REPORT **********

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: JEFFREY ROBERTS PROGRAM CODE: WE5A NOTEBOOK: PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCFID ANALYTICAL PROCEDURE:

Customer Sample Results, Sample # 95.12843 Date Collected: Date Received: Date Extracted: Date Analyzed:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J2	95.12843	177	640.	214.	MG/KG	9/07/95		Petroleum Hydrocarbons, Total Recoverable

********** CST ANALYTICAL REPORT **********

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: JEFFREY ROBERTS PROGRAM CODE: WE5A NOTEBOOK: PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCFID ANALYTICAL PROCEDURE:

Customer Sample Results, Sample # 95.12844 Date Collected: Date Received: Date Extracted: Date Analyzed:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J3	95.12844	177	140.	46.	MG/KG	9/07/95		Petroleum Hydrocarbons, Total Recoverable

********** CST ANALYTICAL REPORT **********

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: JEFFREY ROBERTS PROGRAM CODE: WE5A NOTEBOOK: PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCFID ANALYTICAL PROCEDURE:

Customer Sample Results, Sample # 95.12846 Date Collected: Date Received: Date Extracted: Date Analyzed:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J5	95.12846	177	< 1.		MG/KG	9/07/95		Petroleum Hydrocarbons, Total Recoverable

********** CST ANALYTICAL REPORT **********

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: JEFFREY ROBERTS PROGRAM CODE: WE5A NOTEBOOK: PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCFID ANALYTICAL PROCEDURE:

Customer Sample Results, Sample # 95.12847 Date Collected: Date Received: Date Extracted: Date Analyzed:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J6	95.12847	177	110.	37.3	MG/KG	9/07/95		Petroleum Hydrocarbons, Total Recoverable

********** CST ANALYTICAL REPORT **********

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: JEFFREY ROBERTS PROGRAM CODE: WE5A NOTEBOOK: PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCFID ANALYTICAL PROCEDURE:

Customer Sample Results, Sample # 95.12848 Date Collected: Date Received: Date Extracted: Date Analyzed:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J7	95.12848	177	290.	95.3	MG/KG	9/07/95		Petroleum Hydrocarbons, Total Recoverable

********** CST ANALYTICAL REPORT **********

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: JEFFREY ROBERTS PROGRAM CODE: WE5A NOTEBOOK: PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCFID ANALYTICAL PROCEDURE:

Customer Sample Results, Sample # 95.12849 Date Collected: Date Received: Date Extracted: Date Analyzed:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J8	95.12849	177	160.	54.	MG/KG	9/07/95		Petroleum Hydrocarbons, Total Recoverable

********** CST ANALYTICAL REPORT **********

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: JEFFREY ROBERTS PROGRAM CODE: WE5A NOTEBOOK: PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCFID ANALYTICAL PROCEDURE:

Customer Sample Results, Sample # 95.12850 Date Collected: Date Received: Date Extracted: Date Analyzed:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J9	95.12850	177	41000.	14000.	MG/KG	9/07/95		Petroleum Hydrocarbons, Total Recoverable

********** CST ANALYTICAL REPORT **********

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: JEFFREY ROBERTS PROGRAM CODE: WE5A NOTEBOOK: PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCFID ANALYTICAL PROCEDURE:

Customer Sample Results, Sample # 95.12851 Date Collected: Date Received: Date Extracted: Date Analyzed:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B2	95.12851	177	13.	4.3	MG/KG	9/07/95		Petroleum Hydrocarbons, Total Recoverable

********** CST ANALYTICAL REPORT **********

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: JEFFREY ROBERTS PROGRAM CODE: WE5A NOTEBOOK: PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCFID ANALYTICAL PROCEDURE:

Customer Sample Results, Sample # 95.12853 Date Collected: Date Received: Date Extracted: Date Analyzed:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010815	95.12853	177	180.	60.	MG/KG	9/07/95		Petroleum Hydrocarbons, Total Recoverable

********** EM-9 QUALITY ASSURANCE REPORT **********

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: JEFFREY ROBERTS PROGRAM CODE: WE5A NOTEBOOK: PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCFID ANALYTICAL PROCEDURE:

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QA SAMPLES RUN WITH THIS BATCH

There were no open (non-blind) Quality Control materials run with the samples reported above for one of the following reasons:

____ Only qualitative data requested

____ Only Blind QC samples run with this batch.

____ No QC samples run with this sample batch.

____ No QC samples for this constituent and matrix type available within CST

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLANK QC SAMPLES RUN WITH THIS BATCH

Blank Results

none

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLIND QA SAMPLES RUN WITH THIS BATCH

Blind QC Results, Sample # 95.12863 Date Collected: Date Received: Date Extracted: Date Analyzed:

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
95.12863	177	270.	90.3	UG/G	127.5	12.75	9/07/95	UNDER CONTROL	Petroleum Hydrocarbons, Total Recoverabl

Blind QC Results, Sample # 95.12864 Date Collected: Date Received: Date Extracted: Date Analyzed:

95.12864	177	42.	14.	UG/G	56.1	5.61	9/07/95	UNDER CONTROL	Petroleum Hydrocarbons, Total Recoverabl

REPORT NUMBER: 38059

Analyst	Reviewer	Team Leader	QA Officer
9/8/95	9/8/95	9/8/95	9/8/95
Date	Date	Date	Date

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1992,' LA-12790-MS, Vol. I, pp. 19-20

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LOS ALAMOS NATIONAL LABORATORY
CST-12 ORGANIC ANALYSIS GROUP

DATA REVIEW CERTIFICATION

Request Number: 22393 Analysis: SW 846-8270 Semivolatile

The data contained in the enclosed report has been reviewed and approved by the people listed below:

ROBERT C. JOHNSON		9/13/95
Analyst Name (print)	Analyst Signature	Date
Anthony Lombardo	Anthony Lombardo	9/19/95
Data Reviewer Name (print)	Data Reviewer Signature	Date

PRELIMINARY REPORT

~~Entered~~ Entered
CRD
9/20/95
TA-165.XLS

S. site
Burning grounds
semi-vol. report

CST-12 VOLATILE ORGANIC ANALYSIS
SUMMARY OF ANALYTICAL RESULTS

TO: Ron C. Conrad

DATE: September 18, 1995

FROM: Mike Randow *through* Anthony Lombardo, CST-12 Organic Analysis Section
TL 9/18/95

MATRIX: SOIL

REQUEST NUMBER: 22393

Results Summary

Attached is a tabulation of samples submitted for semivolatile analysis and their analytical results (Table 1.) Nineteen samples were received for semivolatile analysis. Samples were collected on July 31, 1995. Sample extraction was started on August 7, 1995. Samples were analyzed on August 23, 24, 28, 1995. And on September 6, 7, 12, 1995. All hold times were met.

Method Summary

Samples were extracted by Sonication Extraction method. Approximately 30 grams of sample was mixed with 60 grams of sodium sulfate and sonicated with 100 ml of methylene chloride. The methylene chloride was separated from the solids and sonication was repeated with two additional 100 ml aliquot of methylene chloride. Sample extracts were combined and concentrated to 1.0 ml final volume. Appropriate surrogate standards were added prior to extraction. Analysis was performed by capillary column GC/MS methods. Extraction and analysis methods are consistent with EPA SW-846 methods 3550 and 8270. Analytical column used was a J&W scientific DB5.MS 30 M X 0.25 mm ID or equivalent.

Anomalies And Analysis Notes

Below is a summary of QA/QC criteria as outlined in EPA SW-846 and LANL SOPs and a summary of any anomalies which occured during the analyses.

Samples ***S95.12838, S95.12842, S95.12847, S95.12848, S95.12849:*** Internal standard Perylene-d12 was out of criteria. The sample was reanalyzed. Similar results were obtained, indicating matrix interference.

Sample ***S95.12850*** : Internal standard Perylene-d12 and Chrysene-d12 were out of criteria. The sample was reanalyzed. Similar results were obtained, indicating matrix interference.

Sample ***S95.12841*** : Internal standard Perylene-d12 was out of criteria. Surrogates 2-Fluorophenol, Phenol-d5, and 2,4,6-Tribromophenol were out of criteria. The sample was reanalyzed. Similar results were obtained. The remaining sample (10 grams) was then re-extracted out of hold. Both internal standard and surrogate recoveries were within criteria on the reextracted sample. Non-target peaks and target analyte results were similar in the initial extraction and re-extraction. Results for both the extraction and re-extraction were reported.

Calibration QC were within criteria for all other analyses.
Surrogate recoveries were within criteria for all other analyses.

PRELIMINARY REPORT

Samples, surface soil, have been sitting on top of ground for months or years. Out of hold should have little effect.

Internal standard responses were within criteria for all other analyses.

Matrix spike and matrix spike duplicate were analyzed as part of the analytical batch which included the samples from this work request. All spike recoveries and relative percent differences were within criteria. A copy of the MS/MSD recovery form is included with this report.

Holding times were met for all sample analyses.

If you have any questions regarding this data, please call Anthony Lombardo at 665-7410.

TL 9/19/95

PRELIMINARY REPORT

CST-12 SEMIVOLATILE ORGANIC ANALYSIS
SUMMARY OF ANALYTICAL RESULTS

Table 1. Summary of results of sample analyses for semivolatiles.

PRELIMINARY REPORT

REQUEST NUMBER: 22393

SAMPLE ID	TARGET COMPOUNDS FOUND	AMOUNT (ug/Kg)	LOQ (ug/Kg)	TICs
B95.12869 Blank	NONE	TCND		N
S95.12836 PR516-010B9	NONE	TARGET COMPOUNDS NOT DETECTED		Y
S95.12837 16 010B6	NONE	* PUT LIKE THIS IN SPREADSHEET		Y
S95.12838 16 010B11	NONE			Y
S95.12839 16 010B12	NONE			Y
S95.12840 16 010B13	NONE			N
S95.12841 010B14	Phenol	1100	450	Y
	1,3-Dichlorobenzene	94 J	450	
	1,2-Dichlorobenzene	230 J	450	
	Benzoic acid	160 J	2250	COMPOUNDS DETECTED
	Napthalene	420 J	450	
	2-Methylnapthalene	110 J	450	CD
	bis-2-Ethylhexylphthalate	2000	450	
	Di-n-octylphthalate	180 J	450	
S95.12842 010J1	Di-n-butylphthalate	100 J	440	Y
	bis-2-Ethylhexylphthalate	5100	440	
S95.12843 010J2	4-Methylphenol	100 J	440	Y
	Di-n-butylphthalate	120 J	440	
	bis-2-Ethylhexylphthalate	370 J	440	
	Benzo(b)fluoranthene	180 J	440	
S95.12844 010J3	bis-2-Ethylhexylphthalate	170 J	440	Y
S95.12845 010J4	bis-2-Ethylhexylphthalate	130 J	440	Y
S95.12846 010J5	bis-2-Ethylhexylphthalate	300 J	430	N

PRELIMINARY REPORT

S95.12847	010J6	NONE — TCND			N
S95.12848	010J7	Phenanthrene	240 J	430	Y
		Fluoranthene	510	430	
		Pyrene	520	430	
		Benzo(a)anthracene	190 J	430	
		Chrysene	240 J	430	
		Benzo(a)pyrene	210 J	430	
		Benzo(b)Fluoranthene	540	430	
S95.12849	010J8	bis-2-Ethylhexylphthalate	140 J	430	Y
S95.12850	010J9	Pyrene	480	410	N
		Butylbenzylphthalate	400 J	410	
		bis-2-Ethylhexylphthalate	4700	410	
S95.12851	010B2	NONE — TCND			Y
S95.12852	010B8	Di-n-butylphthalate	110 J	430	Y
S95.12853	010K15	NONE — TCND			Y
S95.12854	010J10	4-Methylphenol	110 J	410	Y
		2,4-Dimethylphenol	92 J	410	
		Phenanthrene	85 J	410	
		Fluoranthene	190 J	410	
		Pyrene	160 J	410	
		Chrysene	85 J	410	
		bis-2-Ethylhexylphthalate	160 J	410	
		Benzo(b)fluoranthene	160 J	410	

Sample IDs beginning with the letter S are samples; those beginning with the letter B are blanks.

LOQ: Limit of quantitation. LOQs normally range between 330 and 1650ug/Kg depending on the compound, unless otherwise noted.

TICs: Tentatively identified compounds. Y = TICs were found. N = TICs were not found.

J: Compound is present in the sample, but at a concentration that is less than LOQ. This concentration should be considered an estimate.

B: This compound is present in the blank. Amount found in sample is considered significant at 10 times the amount found in the blank for common phthalate contaminants and five times the blank amount for other target compounds.

TL 9/19/95

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: LANL-CST12 Contract: _____

Project No.: 22393 Site: _____ Location: _____ Group: _____

Matrix Spike - Sample No.: S9512845 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	4300	0	2100	49	(26-90)
2-Chlorophenol	4300	0	2200	51	(25-102)
1,4-Dichlorobenzene	2200	0	1000	45	(28-104)
N-Nitroso-di-n-propylamine	2200	0	1300	59	(41-126)
1,2,4-Trichlorobenzene	2200	0	1100	50	(38-107)
4-Chloro-3-methylphenol	4300	0	2400	56	(26-103)
Acenaphthene	2200	0	1200	55	(31-137)
4-Nitrophenol	4300	0	2100	49	(11-114)
2,4-Dinitrotoluene	2200	0	1200	55	(28-89)
Pentachlorophenol	4300	0	3200	74	(17-109)
Pyrene	2200	0	1500	68	(35-142)

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	4300	2500	58	17	35	(26-90)
2-Chlorophenol	4300	2600	60	17	50	(25-102)
1,4-Dichlorobenzene	2200	1200	55	18	27	(28-104)
N-Nitroso-di-n-propylamine	2200	1500	68	14	38	(41-126)
1,2,4-Trichlorobenzene	2200	1300	59	17	23	(38-107)
4-Chloro-3-methylphenol	4300	2800	65	15	33	(26-103)
Acenaphthene	2200	1300	59	8	19	(31-137)
4-Nitrophenol	4300	2300	53	9	50	(11-114)
2,4-Dinitrotoluene	2200	1300	59	8	47	(28-89)
Pentachlorophenol	4300	3500	81	9	47	(17-109)
Pyrene	2200	1600	73	6	36	(35-142)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

PRELIMINARY REPORT

RPD: 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits

Comments: _____

4w

EM-9 ANALYTICAL SERVICE AGREEMENT
Samples Assigned Report

REQUEST NBR
22393

ANALYTICAL SECTION: ORGNC

PROGRAM FUND CODE: WE5A

SAMPLE DISPOSAL: RETURN

AGREEMENT_DATE: 01-AUG-95

PRIORITY CODE: 3

AMENDED

SCREENING DATA: Samples Screened: Counts BELOW Background!

CUSTOMER: RCC; Ron C. Conrad

MAIL STOP: K490

PHONE: 667-0950

SIGNATURE: JAJ

TOTAL SAMPLES:

COUNTS:

ANALYSIS	TECHNIQUE	ANALYST	DUE	NBR SAMPLES
177	GCMS	JBR	30-SEP-95	15
SEMIVOL	GCMS	AJL	30-SEP-95	23
VOLATILES	GCMS	JDT	30-SEP-95	22

pg. 137

REMARKS:

ACCOUNT CODE=0300 CC=7C19
AMMENDED 8/1/95: DELETED NONEXISTING SAMPLE ON SERVICE
AGREEMENT AND ON CHAIN OF CUSTODY #95.12836

PRELIMINARY REPORT

SAMPLES:

ANALYSIS	SAMPLE	TECHNIQUE	MATRX	TYPE	PRESERVATIVES	HAZARDS	COLLECTED	DUE	ANALST
177	95.12837-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12840-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12841-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12842-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12843-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12844-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12846-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12847-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12848-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12849-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12850-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12851-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12853-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JBR
	95.12863-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	25-MAY-94	30-SEP-95	JBR
	95.12864-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	25-MAY-94	30-SEP-95	JBR
SEMIVOL	95.12837-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12838-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12839-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12840-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12841-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12842-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12843-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12844-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12845-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL

EM-9 ANALYTICAL SERVICE AGREEMENT
Samples Assigned Report

REQUEST NBR
22393

S... ES:

LYSIS	SAMPLE	TECHNIQUE	MATRX	TYPE	PRESERVATIVES	HAZARDS	COLLECTED	DUE	ANALST
SEMIVOL	95.12846-Cut-3	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12847-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12848-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12849-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12850-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12851-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12852-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12853-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12854-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	AJL
	95.12869-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	01-AUG-95	30-SEP-95	AJL
	95.12870-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	01-AUG-95	30-SEP-95	AJL
	95.12883-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	01-AUG-95	30-SEP-95	AJL
	95.12884-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	01-AUG-95	30-SEP-95	AJL
VOLATILES	95.12834-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12835-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12837-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12838-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12839-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12840-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12841-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12842-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12843-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12844-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12845-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12846-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12847-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12848-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12849-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12850-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12854-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12856-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	31-JUL-95	30-SEP-95	JDT
	95.12867-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	01-AUG-95	30-SEP-95	JDT
	95.12868-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	01-AUG-95	30-SEP-95	JDT
	95.12885-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	01-AUG-95	30-SEP-95	JDT
	95.12889-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	01-AUG-95	30-SEP-95	JDT

PRELIMINARY REPORT

Agreement	Sample Nbr	Customer Number	Date Collected
2393	95.12867	00.20227	01-AUG-95
2393	95.12868	00.20227	01-AUG-95
22393	95.12869	00.20227	01-AUG-95
22393	95.12870	00.20227	01-AUG-95
22393	95.12889	00.30362	01-AUG-95
22393	95.12863	00.31005	25-MAY-94
22393	95.12864	00.31009	25-MAY-94
22393	95.12883	00.32096	01-AUG-95
22393	95.12884	00.32249	01-AUG-95
22393	95.12885	00.32251	01-AUG-95
22393	95.12886	00.33767	01-AUG-95
22393	95.12887	00.33768	01-AUG-95
22393	95.12834	PRS16-010B1	31-JUL-95
22393	95.12857	PRS16-010B10	31-JUL-95
22393	95.12838	PRS16-010B11	31-JUL-95
22393	95.12839	PRS16-010B12	31-JUL-95
22393	95.12840	PRS16-010B13	31-JUL-95
22393	95.12841	PRS16-010B14	31-JUL-95
22393	95.12853	PRS16-010B15	31-JUL-95
22393	95.12851	PRS16-010B2	31-JUL-95
22393	95.12855	PRS16-010B3	31-JUL-95
22393	95.12835	PRS16-010B4	31-JUL-95
22393	95.12856	PRS16-010B5	31-JUL-95
22393	95.12837	PRS16-010B6	31-JUL-95
22393	95.12852	PRS16-010B8	31-JUL-95
393	95.12842	PRS16-010J1	31-JUL-95
2393	95.12854	PRS16-010J10	31-JUL-95
22393	95.12843	PRS16-010J2	31-JUL-95
22393	95.12844	PRS16-010J3	31-JUL-95
22393	95.12845	PRS16-010J4	31-JUL-95
22393	95.12846	PRS16-010J5	31-JUL-95
22393	95.12847	PRS16-010J6	31-JUL-95
22393	95.12848	PRS16-010J7	31-JUL-95
22393	95.12849	PRS16-010J8	31-JUL-95
22393	95.12850	PRS16-010J9	31-JUL-95
	95.12836	PRS16-010B9	

PRELIMINARY REPORT

LOS ALAMOS NATIONAL LABORATORY
CST-12 ORGANIC ANALYSIS GROUP

DATA REVIEW CERTIFICATION

Request Number: 22393 Analysis: SW 846-8270 Semivolatile

The data contained in the enclosed report has been reviewed and approved by the people listed below:

ROBERT C. JOHNSON		9/13/95
Analyst Name (print)	Analyst Signature	Date
Anthony Lombardo		9/19/95
Data Reviewer Name (print)	Data Reviewer Signature	Date

CST-12 VOLATILE ORGANIC ANALYSIS
SUMMARY OF ANALYTICAL RESULTS

TO: Ron C. Conrad **DATE:** September 18, 1995

FROM: Mike Randow *through* Anthony Lombardo, CST-12 Organic Analysis Section
TL 9/12/95

MATRIX: SOIL **REQUEST NUMBER: 22393**

Results Summary
Attached is a tabulation of samples submitted for semivolatile analysis and their analytical results (Table 1.) Nineteen samples were received for semivolatile analysis. Samples were collected on July 31, 1995. Sample extraction was started on August 7, 1995. Samples were analyzed on August 23, 24, 28, 1995. And on September 6, 7, 12, 1995. All hold times were met.

Method Summary
Samples were extracted by Sonication Extraction method. Approximately 30 grams of sample was mixed with 60 grams of sodium sulfate and sonicated with 100 ml of methylene chloride. The methylene chloride was separated from the solids and sonication was repeated with two additional 100 ml aliquot of methylene chloride. Sample extracts were combined and concentrated to 1.0 ml final volume. Appropriate surrogate standards were added prior to extraction. Analysis was performed by capillary column GC/MS methods. Extraction and analysis methods are consistent with EPA SW-846 methods 3550 and 8270. Analytical column used was a J&W scientific DB5.MS 30 M X 0.25 mm ID or equivalent.

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Samples ***S95.12838, S95.12842, S95.12847, S95.12848, S95.12849:*** Internal standard Perylene-d12 was out of criteria. The sample was reanalyzed. Similar results were obtained, indicating matrix interference.

Sample ***S95.12850*** : Internal standard Perylene-d12 and Chrysene-d12 were out of criteria. The sample was reanalyzed. Similar results were obtained, indicating matrix interference.

Sample ***S95.12841*** : Internal standard Perylene-d12 was out of criteria. Surrogates 2-Fluorophenol, Phenol-d5, and 2,4,6-Tribromophenol were out of criteria. The sample was reanalyzed. Similar results were obtained. The remaining sample (10 grams) was then re-extracted out of hold. Both internal standard and surrogate recoveries were within criteria on the reextracted sample. Non-target peaks and target analyte results were similar in the initial extraction and re-extraction. Results for both the extraction and re-extraction were reported.

Calibration QC were within criteria for all other analyses.
Surrogate recoveries were within criteria for all other analyses.

Internal standard responses were within criteria for all other analyses.

Matrix spike and matrix spike duplicate were analyzed as part of the analytical batch which included the samples from this work request. All spike recoveries and relative percent differences were within criteria. A copy of the MS/MSD recovery form is included with this report.

Holding times were met for all sample analyses.

If you have any questions regarding this data, please call Anthony Lombardo at 665-7410.

TL 9/19/95

CST-12 SEMIVOLATILE ORGANIC ANALYSIS
SUMMARY OF ANALYTICAL RESULTS

Table 1. Summary of results of sample analyses for semivolatiles. TL 9/19/95

REQUEST NUMBER: 22393

SAMPLE ID	TARGET COMPOUNDS FOUND	AMOUNT (ug/Kg)	LOQ (ug/Kg)	TICs
B95.12869	NONE			N
S95.12836	NONE			Y
S95.12837	NONE			Y
S95.12838	NONE			Y
S95.12839	NONE			Y
S95.12840	NONE			N
S95.12841	Phenol	1100	450	Y
	1,3-Dichlorobenzene	94 J	450	
	1,2-Dichlorobenzene	230 J	450	
	Benzoic acid	160 J	2250	
	Napthalene	420 J	450	
	2-Methylnapthalene	110 J	450	
	bis-2-Ethylhexylphthalate*	2000	450	
	Di-n-octylphthalate*	180 J	450	
S95.12842	Di-n-butylphthalate*	100 J	440	Y
	bis-2-Ethylhexylphthalate*	5100	440	
S95.12843	4-Methylphenol	100 J	440	Y
	Di-n-butylphthalate	120 J	440	
	bis-2-Ethylhexylphthalate*	370 J	440	
	Benzo(b)fluoranthene	180 J	440	
S95.12844	bis-2-Ethylhexylphthalate *	170 J	440	Y
S95.12845	bis-2-Ethylhexylphthalate*	130 J	440	Y
S95.12846	bis-2-Ethylhexylphthalate *	300 J	430	N

S95.12847	NONE			N
S95.12848	Phenanthrene	240 J	430	Y
	Fluoranthene	510	430	
	Pyrene	520	430	
	Benzo(a)anthracene	190 J	430	
	Chrysene	240 J	430	
	Benzo(a)pyrene	210 J	430	
	Benzo(b)Fluoranthene	540	430	
S95.12849	bis-2-Ethylhexylphthalate*	140 J	430	Y
S95.12850	Pyrene	480	410	N
	Butylbenzylphthalate*	400 J	410	
	bis-2-Ethylhexylphthalate*	4700	410	
S95.12851	NONE			Y
S95.12852	Di-n-butylphthalate*	110 J	430	Y
S95.12853	NONE			Y
S95.12854	4-Methylphenol	110 J	410	Y
	2,4-Dimethylphenol	92 J	410	
	Phenanthrene	85 J	410	
	Fluoranthene	190 J	410	
	Pyrene	160 J	410	
	Chrysene	85 J	410	
	bis-2-Ethylhexylphthalate*	160 J	410	
	Benzo(b)fluoranthene	160 J	410	

Sample IDs beginning with the letter S are samples; those beginning with the letter B are blanks.

LOQ: Limit of quantitation. LOQs normally range between 330 and 1650ug/Kg depending on the compound, unless otherwise noted.

TICs: Tentatively identified compounds. Y = TICs were found. N = TICs were not found.

J: Compound is present in the sample, but at a concentration that is less than LOQ. This concentration should be considered an estimate.

B: This compound is present in the blank. Amount found in sample is considered significant at 10 times the amount found in the blank for common phthalate contaminants and five times the blank amount for other target compounds.

TL 9/19/95

*Thalates are common lab contaminants that are picked up along analysis – ~~usula~~ usual source is from latex glove.

Re: Anthony Lomlendo
MP 9/27/95

********** CST ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 20-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082804 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12837 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 8/28/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B6	95.12837	83329	< 350.		UG/KG	9/20/95		Acenaphthene
PRS16-010B6	95.12837	208968	< 350.		UG/KG	9/20/95		Acenaphthylene
PRS16-010B6	95.12837	62533	< 350.		UG/KG	9/20/95		Aniline
PRS16-010B6	95.12837	120127	< 350.		UG/KG	9/20/95		Anthracene
PRS16-010B6	95.12837	103333	< 350.		UG/KG	9/20/95		Azobenzene
PRS16-010B6	95.12837	92875	< 1700.		UG/KG	9/20/95		m-Benzidine
PRS16-010B6	95.12837	56553	< 350.		UG/KG	9/20/95		Benzo[a]anthracene
PRS16-010B6	95.12837	50328	< 350.		UG/KG	9/20/95		Benzo[a]pyrene
PRS16-010B6	95.12837	205992	< 350.		UG/KG	9/20/95		Benzo[b]fluoranthene
PRS16-010B6	95.12837	191242	< 350.		UG/KG	9/20/95		Benzo[g,h,i]perylene
PRS16-010B6	95.12837	207089	< 350.		UG/KG	9/20/95		Benzo[k]fluoranthene
PRS16-010B6	95.12837	65850	< 1700.		UG/KG	9/20/95		Benzoic acid
PRS16-010B6	95.12837	100516	< 350.		UG/KG	9/20/95		Benzyl alcohol
PRS16-010B6	95.12837	111911	< 350.		UG/KG	9/20/95		Bis(2-chloroethoxy)methane
PRS16-010B6	95.12837	111444	< 350.		UG/KG	9/20/95		Bis(2-chloroethyl)ether
PRS16-010B6	95.12837	108601	< 350.		UG/KG	9/20/95		Bis(2-chloroisopropyl)ether
PRS16-010B6	95.12837	117817	< 350.		UG/KG	9/20/95		Bis(2-ethylhexyl)phthalate
PRS16-010B6	95.12837	101553	< 350.		UG/KG	9/20/95		4-Bromophenylphenyl ether
PRS16-010B6	95.12837	85687	< 350.		UG/KG	9/20/95		Butyl benzyl phthalate
PRS16-010B6	95.12837	59507	< 350.		UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010B6	95.12837	106478	< 350.		UG/KG	9/20/95		4-Chloroaniline
PRS16-010B6	95.12837	91587	< 350.		UG/KG	9/20/95		2-Chloronaphthalene
PRS16-010B6	95.12837	95578	< 350.		UG/KG	9/20/95		o-Chlorophenol
PRS16-010B6	95.12837	7005723	< 350.		UG/KG	9/20/95		4-Chlorophenylphenyl ether
PRS16-010B6	95.12837	218019	< 350.		UG/KG	9/20/95		Chrysene
PRS16-010B6	95.12837	84742	< 350.		UG/KG	9/20/95		Di-n-butyl phthalate

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B6	95.12837	117840	< 350.		UG/KG	9/20/95		Di-n-octyl phthalate
PRS16-010B6	95.12837	53703	< 350.		UG/KG	9/20/95		Dibenzo[a,h]anthracene
PRS16-010B6	95.12837	132649	< 1700.		UG/KG	9/20/95		Dibenzofuran
PRS16-010B6	95.12837	95501	< 350.		UG/KG	9/20/95		o-Dichlorobenzene (1,2)
PRS16-010B6	95.12837	541731	< 350.		UG/KG	9/20/95		m-Dichlorobenzene (1,3)
PRS16-010B6	95.12837	106467	< 350.		UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010B6	95.12837	91941	< 690.		UG/KG	9/20/95		3,3'-Dichlorobenzidine
PRS16-010B6	95.12837	120832	< 350.		UG/KG	9/20/95		2,4-Dichlorophenol
PRS16-010B6	95.12837	84662	< 350.		UG/KG	9/20/95		Diethyl phthalate
PRS16-010B6	95.12837	131113	< 350.		UG/KG	9/20/95		Dimethyl phthalate
PRS16-010B6	95.12837	105679	< 350.		UG/KG	9/20/95		2,4-Dimethylphenol
PRS16-010B6	95.12837	51285	< 350.		UG/KG	9/20/95		2,4-Dinitrophenol
PRS16-010B6	95.12837	121142	< 350.		UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010B6	95.12837	606202	< 350.		UG/KG	9/20/95		2,6-Dinitrotoluene
PRS16-010B6	95.12837	206440	< 350.		UG/KG	9/20/95		Fluoranthene
PRS16-010B6	95.12837	86737	< 350.		UG/KG	9/20/95		Fluorene
PRS16-010B6	95.12837	118741	< 350.		UG/KG	9/20/95		Hexachlorobenzene
PRS16-010B6	95.12837	87683	< 1700.		UG/KG	9/20/95		Hexachlorobutadiene
PRS16-010B6	95.12837	77474	< 350.		UG/KG	9/20/95		Hexachlorocyclopentadiene
PRS16-010B6	95.12837	67721	< 350.		UG/KG	9/20/95		Hexachloroethane
PRS16-010B6	95.12837	193395	< 350.		UG/KG	9/20/95		Indeno[1,2,3-cd]pyrene
PRS16-010B6	95.12837	78591	< 350.		UG/KG	9/20/95		Isophorone
PRS16-010B6	95.12837	534521	< 1700.		UG/KG	9/20/95		2-Methyl-4,6-dinitrophenol
PRS16-010B6	95.12837	91576	< 350.		UG/KG	9/20/95		2-Methylnaphthalene
PRS16-010B6	95.12837	95487	< 350.		UG/KG	9/20/95		2-Methylphenol
PRS16-010B6	95.12837	106445	< 350.		UG/KG	9/20/95		4-Methylphenol
PRS16-010B6	95.12837	91203	< 350.		UG/KG	9/20/95		Naphthalene
PRS16-010B6	95.12837	88744	< 690.		UG/KG	9/20/95		2-Nitroaniline
PRS16-010B6	95.12837	99092	< 690.		UG/KG	9/20/95		3-Nitroaniline
PRS16-010B6	95.12837	100016	< 690.		UG/KG	9/20/95		4-Nitroaniline
PRS16-010B6	95.12837	98953	< 350.		UG/KG	9/20/95		Nitrobenzene
PRS16-010B6	95.12837	88755	< 350.		UG/KG	9/20/95		2-Nitrophenol
PRS16-010B6	95.12837	100027	< 1700.		UG/KG	9/20/95		4-Nitrophenol
PRS16-010B6	95.12837	621647	< 350.		UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010B6	95.12837	62759	< 350.		UG/KG	9/20/95		N-Nitrosodimethylamine
PRS16-010B6	95.12837	86306	< 350.		UG/KG	9/20/95		N-Nitrosodiphenylamine

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B6	95.12837	87865	< 350.		UG/KG	9/20/95		Pentachlorophenol
PRS16-010B6	95.12837	85018	< 350.		UG/KG	9/20/95		Phenanthrene
PRS16-010B6	95.12837	108952	< 350.		UG/KG	9/20/95		Phenol
PRS16-010B6	95.12837	129000	< 350.		UG/KG	9/20/95		Pyrene
PRS16-010B6	95.12837	120821	< 350.		UG/KG	9/20/95		1,2,4-Trichlorobenzene
PRS16-010B6	95.12837	95954	< 350.		UG/KG	9/20/95		2,4,5-Trichlorophenol
PRS16-010B6	95.12837	88062	< 350.		UG/KG	9/20/95		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 95.12837

none

********** CST ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 20-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082804 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12838 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 8/23/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B11	95.12838	83329	< 430.		UG/KG	9/20/95		Acenaphthene
PRS16-010B11	95.12838	208968	< 430.		UG/KG	9/20/95		Acenaphthylene
PRS16-010B11	95.12838	62533	< 430.		UG/KG	9/20/95		Aniline
PRS16-010B11	95.12838	120127	< 430.		UG/KG	9/20/95		Anthracene
PRS16-010B11	95.12838	103333	< 430.		UG/KG	9/20/95		Azobenzene
PRS16-010B11	95.12838	92875	< 2200.		UG/KG	9/20/95		m-Benzidine
PRS16-010B11	95.12838	56553	< 430.		UG/KG	9/20/95		Benzo[a]anthracene
PRS16-010B11	95.12838	50328	< 430.		UG/KG	9/20/95		Benzo[a]pyrene
PRS16-010B11	95.12838	205992	< 430.		UG/KG	9/20/95		Benzo[b]fluoranthene
PRS16-010B11	95.12838	191242	< 430.		UG/KG	9/20/95		Benzo[g,h,i]perylene
PRS16-010B11	95.12838	207089	< 430.		UG/KG	9/20/95		Benzo[k]fluoranthene
PRS16-010B11	95.12838	65850	< 2200.		UG/KG	9/20/95		Benzoic acid
PRS16-010B11	95.12838	100516	< 430.		UG/KG	9/20/95		Benzyl alcohol
PRS16-010B11	95.12838	111911	< 430.		UG/KG	9/20/95		Bis(2-chloroethoxy)methane
PRS16-010B11	95.12838	111444	< 430.		UG/KG	9/20/95		Bis(2-chloroethyl)ether
PRS16-010B11	95.12838	108601	< 430.		UG/KG	9/20/95		Bis(2-chloroisopropyl)ether
PRS16-010B11	95.12838	117817	< 430.		UG/KG	9/20/95		Bis(2-ethylhexyl)phthalate
PRS16-010B11	95.12838	101553	< 430.		UG/KG	9/20/95		4-Bromophenylphenyl ether
PRS16-010B11	95.12838	85687	< 430.		UG/KG	9/20/95		Butyl benzyl phthalate
PRS16-010B11	95.12838	59507	< 430.		UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010B11	95.12838	106478	< 430.		UG/KG	9/20/95		4-Chloroaniline
PRS16-010B11	95.12838	91587	< 430.		UG/KG	9/20/95		2-Chloronaphthalene
PRS16-010B11	95.12838	95578	< 430.		UG/KG	9/20/95		o-Chlorophenol
PRS16-010B11	95.12838	7005723	< 430.		UG/KG	9/20/95		4-Chlorophenylphenyl ether
PRS16-010B11	95.12838	218019	< 430.		UG/KG	9/20/95		Chrysene
PRS16-010B11	95.12838	84742	< 430.		UG/KG	9/20/95		Di-n-butyl phthalate

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B11	95.12838	117840	< 430.		UG/KG	9/20/95		Di-n-octyl phthalate
PRS16-010B11	95.12838	53703	< 430.		UG/KG	9/20/95		Dibenzo[a,h]anthracene
PRS16-010B11	95.12838	132649	< 2200.		UG/KG	9/20/95		Dibenzofuran
PRS16-010B11	95.12838	95501	< 430.		UG/KG	9/20/95		o-Dichlorobenzene (1,2)
PRS16-010B11	95.12838	541731	< 430.		UG/KG	9/20/95		m-Dichlorobenzene (1,3)
PRS16-010B11	95.12838	106467	< 430.		UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010B11	95.12838	91941	< 870.		UG/KG	9/20/95		3,3'-Dichlorobenzidine
PRS16-010B11	95.12838	120832	< 430.		UG/KG	9/20/95		2,4-Dichlorophenol
PRS16-010B11	95.12838	84662	< 430.		UG/KG	9/20/95		Diethyl phthalate
PRS16-010B11	95.12838	131113	< 430.		UG/KG	9/20/95		Dimethyl phthalate
PRS16-010B11	95.12838	105679	< 430.		UG/KG	9/20/95		2,4-Dimethylphenol
PRS16-010B11	95.12838	51285	< 430.		UG/KG	9/20/95		2,4-Dinitrophenol
PRS16-010B11	95.12838	121142	< 430.		UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010B11	95.12838	606202	< 430.		UG/KG	9/20/95		2,6-Dinitrotoluene
PRS16-010B11	95.12838	206440	< 430.		UG/KG	9/20/95		Fluoranthene
PRS16-010B11	95.12838	86737	< 430.		UG/KG	9/20/95		Fluorene
PRS16-010B11	95.12838	118741	< 430.		UG/KG	9/20/95		Hexachlorobenzene
PRS16-010B11	95.12838	87683	< 2200.		UG/KG	9/20/95		Hexachlorobutadiene
PRS16-010B11	95.12838	77474	< 430.		UG/KG	9/20/95		Hexachlorocyclopentadiene
PRS16-010B11	95.12838	67721	< 430.		UG/KG	9/20/95		Hexachloroethane
PRS16-010B11	95.12838	193395	< 430.		UG/KG	9/20/95		Indeno[1,2,3-cd]pyrene
PRS16-010B11	95.12838	78591	< 430.		UG/KG	9/20/95		Isophorone
PRS16-010B11	95.12838	534521	< 2200.		UG/KG	9/20/95		2-Methyl-4,6-dinitrophenol
PRS16-010B11	95.12838	91576	< 430.		UG/KG	9/20/95		2-Methylnaphthalene
PRS16-010B11	95.12838	95487	< 430.		UG/KG	9/20/95		2-Methylphenol
PRS16-010B11	95.12838	106445	< 430.		UG/KG	9/20/95		4-Methylphenol
PRS16-010B11	95.12838	91203	< 430.		UG/KG	9/20/95		Naphthalene
PRS16-010B11	95.12838	88744	< 870.		UG/KG	9/20/95		2-Nitroaniline
PRS16-010B11	95.12838	99092	< 870.		UG/KG	9/20/95		3-Nitroaniline
PRS16-010B11	95.12838	100016	< 870.		UG/KG	9/20/95		4-Nitroaniline
PRS16-010B11	95.12838	98953	< 430.		UG/KG	9/20/95		Nitrobenzene
PRS16-010B11	95.12838	88755	< 430.		UG/KG	9/20/95		2-Nitrophenol
PRS16-010B11	95.12838	100027	< 2200.		UG/KG	9/20/95		4-Nitrophenol
PRS16-010B11	95.12838	621647	< 430.		UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010B11	95.12838	62759	< 430.		UG/KG	9/20/95		N-Nitrosodimethylamine
PRS16-010B11	95.12838	86306	< 430.		UG/KG	9/20/95		N-Nitrosodiphenylamine

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B11	95.12838	87865	< 430.		UG/KG	9/20/95		Pentachlorophenol
PRS16-010B11	95.12838	85018	< 430.		UG/KG	9/20/95		Phenanthrene
PRS16-010B11	95.12838	108952	< 430.		UG/KG	9/20/95		Phenol
PRS16-010B11	95.12838	129000	< 430.		UG/KG	9/20/95		Pyrene
PRS16-010B11	95.12838	120821	< 430.		UG/KG	9/20/95		1,2,4-Trichlorobenzene
PRS16-010B11	95.12838	95954	< 430.		UG/KG	9/20/95		2,4,5-Trichlorophenol
PRS16-010B11	95.12838	88062	< 430.		UG/KG	9/20/95		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 95.12838

none

********** CST ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 20-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082804 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12839 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 8/28/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B12	95.12839	83329	< 460.		UG/KG	9/20/95		Acenaphthene
PRS16-010B12	95.12839	208968	< 460.		UG/KG	9/20/95		Acenaphthylene
PRS16-010B12	95.12839	62533	< 460.		UG/KG	9/20/95		Aniline
PRS16-010B12	95.12839	120127	< 460.		UG/KG	9/20/95		Anthracene
PRS16-010B12	95.12839	103333	< 460.		UG/KG	9/20/95		Azobenzene
PRS16-010B12	95.12839	92875	< 2300.		UG/KG	9/20/95		m-Benzidine
PRS16-010B12	95.12839	56553	< 460.		UG/KG	9/20/95		Benzo[a]anthracene
PRS16-010B12	95.12839	50328	< 460.		UG/KG	9/20/95		Benzo[a]pyrene
PRS16-010B12	95.12839	205992	< 460.		UG/KG	9/20/95		Benzo[b]fluoranthene
PRS16-010B12	95.12839	191242	< 460.		UG/KG	9/20/95		Benzo[g,h,i]perylene
PRS16-010B12	95.12839	207089	< 460.		UG/KG	9/20/95		Benzo[k]fluoranthene
PRS16-010B12	95.12839	65850	< 2300.		UG/KG	9/20/95		Benzoic acid
PRS16-010B12	95.12839	100516	< 460.		UG/KG	9/20/95		Benzyl alcohol
PRS16-010B12	95.12839	111911	< 460.		UG/KG	9/20/95		Bis(2-chloroethoxy)methane
PRS16-010B12	95.12839	111444	< 460.		UG/KG	9/20/95		Bis(2-chloroethyl)ether
PRS16-010B12	95.12839	108601	< 460.		UG/KG	9/20/95		Bis(2-chloroisopropyl)ether
PRS16-010B12	95.12839	117817	< 460.		UG/KG	9/20/95		Bis(2-ethylhexyl)phthalate
PRS16-010B12	95.12839	101553	< 460.		UG/KG	9/20/95		4-Bromophenylphenyl ether
PRS16-010B12	95.12839	85687	< 460.		UG/KG	9/20/95		Butyl benzyl phthalate
PRS16-010B12	95.12839	59507	< 460.		UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010B12	95.12839	106478	< 460.		UG/KG	9/20/95		4-Chloroaniline
PRS16-010B12	95.12839	91587	< 460.		UG/KG	9/20/95		2-Chloronaphthalene
PRS16-010B12	95.12839	95578	< 460.		UG/KG	9/20/95		o-Chlorophenol
PRS16-010B12	95.12839	7005723	< 460.		UG/KG	9/20/95		4-Chlorophenylphenyl ether
PRS16-010B12	95.12839	218019	< 460.		UG/KG	9/20/95		Chrysene
PRS16-010B12	95.12839	84742	< 460.		UG/KG	9/20/95		Di-n-butyl phthalate

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B12	95.12839	117840	< 460.		UG/KG	9/20/95		Di-n-octyl phthalate
PRS16-010B12	95.12839	53703	< 460.		UG/KG	9/20/95		Dibenzo[a,h]anthracene
PRS16-010B12	95.12839	132649	< 2300.		UG/KG	9/20/95		Dibenzofuran
PRS16-010B12	95.12839	95501	< 460.		UG/KG	9/20/95		o-Dichlorobenzene (1,2)
PRS16-010B12	95.12839	541731	< 460.		UG/KG	9/20/95		m-Dichlorobenzene (1,3)
PRS16-010B12	95.12839	106467	< 460.		UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010B12	95.12839	91941	< 910.		UG/KG	9/20/95		3,3'-Dichlorobenzidine
PRS16-010B12	95.12839	120832	< 460.		UG/KG	9/20/95		2,4-Dichlorophenol
PRS16-010B12	95.12839	84662	< 460.		UG/KG	9/20/95		Diethyl phthalate
PRS16-010B12	95.12839	131113	< 460.		UG/KG	9/20/95		Dimethyl phthalate
PRS16-010B12	95.12839	105679	< 460.		UG/KG	9/20/95		2,4-Dimethylphenol
PRS16-010B12	95.12839	51285	< 460.		UG/KG	9/20/95		2,4-Dinitrophenol
PRS16-010B12	95.12839	121142	< 460.		UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010B12	95.12839	606202	< 460.		UG/KG	9/20/95		2,6-Dinitrotoluene
PRS16-010B12	95.12839	206440	< 460.		UG/KG	9/20/95		Fluoranthene
PRS16-010B12	95.12839	86737	< 460.		UG/KG	9/20/95		Fluorene
PRS16-010B12	95.12839	118741	< 460.		UG/KG	9/20/95		Hexachlorobenzene
PRS16-010B12	95.12839	87683	< 2300.		UG/KG	9/20/95		Hexachlorobutadiene
PRS16-010B12	95.12839	77474	< 460.		UG/KG	9/20/95		Hexachlorocyclopentadiene
PRS16-010B12	95.12839	67721	< 460.		UG/KG	9/20/95		Hexachloroethane
PRS16-010B12	95.12839	193395	< 460.		UG/KG	9/20/95		Indeno[1,2,3-cd]pyrene
PRS16-010B12	95.12839	78591	< 460.		UG/KG	9/20/95		Isophorone
PRS16-010B12	95.12839	534521	< 2300.		UG/KG	9/20/95		2-Methyl-4,6-dinitrophenol
PRS16-010B12	95.12839	91576	< 460.		UG/KG	9/20/95		2-Methylnaphthalene
PRS16-010B12	95.12839	95487	< 460.		UG/KG	9/20/95		2-Methylphenol
PRS16-010B12	95.12839	106445	< 460.		UG/KG	9/20/95		4-Methylphenol
PRS16-010B12	95.12839	91203	< 460.		UG/KG	9/20/95		Naphthalene
PRS16-010B12	95.12839	88744	< 910.		UG/KG	9/20/95		2-Nitroaniline
PRS16-010B12	95.12839	99092	< 910.		UG/KG	9/20/95		3-Nitroaniline
PRS16-010B12	95.12839	100016	< 910.		UG/KG	9/20/95		4-Nitroaniline
PRS16-010B12	95.12839	98953	< 460.		UG/KG	9/20/95		Nitrobenzene
PRS16-010B12	95.12839	88755	< 460.		UG/KG	9/20/95		2-Nitrophenol
PRS16-010B12	95.12839	100027	< 2300.		UG/KG	9/20/95		4-Nitrophenol
PRS16-010B12	95.12839	621647	< 460.		UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010B12	95.12839	62759	< 460.		UG/KG	9/20/95		N-Nitrosodimethylamine
PRS16-010B12	95.12839	86306	< 460.		UG/KG	9/20/95		N-Nitrosodiphenylamine

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B12	95.12839	87865	< 460.		UG/KG	9/20/95		Pentachlorophenol
PRS16-010B12	95.12839	85018	< 460.		UG/KG	9/20/95		Phenanthrene
PRS16-010B12	95.12839	108952	< 460.		UG/KG	9/20/95		Phenol
PRS16-010B12	95.12839	129000	< 460.		UG/KG	9/20/95		Pyrene
PRS16-010B12	95.12839	120821	< 460.		UG/KG	9/20/95		1,2,4-Trichlorobenzene
PRS16-010B12	95.12839	95954	< 460.		UG/KG	9/20/95		2,4,5-Trichlorophenol
PRS16-010B12	95.12839	88062	< 460.		UG/KG	9/20/95		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 95.12839

none

********** CST ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 20-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082804 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12840 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 8/23/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B13	95.12840	83329	< 380.		UG/KG	9/20/95		Acenaphthene
PRS16-010B13	95.12840	208968	< 380.		UG/KG	9/20/95		Acenaphthylene
PRS16-010B13	95.12840	62533	< 380.		UG/KG	9/20/95		Aniline
PRS16-010B13	95.12840	120127	< 380.		UG/KG	9/20/95		Anthracene
PRS16-010B13	95.12840	103333	< 380.		UG/KG	9/20/95		Azobenzene
PRS16-010B13	95.12840	92875	< 1900.		UG/KG	9/20/95		m-Benzidine
PRS16-010B13	95.12840	56553	< 380.		UG/KG	9/20/95		Benzo[a]anthracene
PRS16-010B13	95.12840	50328	< 380.		UG/KG	9/20/95		Benzo[a]pyrene
PRS16-010B13	95.12840	205992	< 380.		UG/KG	9/20/95		Benzo[b]fluoranthene
PRS16-010B13	95.12840	191242	< 380.		UG/KG	9/20/95		Benzo[g,h,i]perylene
PRS16-010B13	95.12840	207089	< 380.		UG/KG	9/20/95		Benzo[k]fluoranthene
PRS16-010B13	95.12840	65850	< 1900.		UG/KG	9/20/95		Benzoic acid
PRS16-010B13	95.12840	100516	< 380.		UG/KG	9/20/95		Benzyl alcohol
PRS16-010B13	95.12840	111911	< 380.		UG/KG	9/20/95		Bis(2-chloroethoxy)methane
PRS16-010B13	95.12840	111444	< 380.		UG/KG	9/20/95		Bis(2-chloroethyl)ether
PRS16-010B13	95.12840	108601	< 380.		UG/KG	9/20/95		Bis(2-chloroisopropyl)ether
PRS16-010B13	95.12840	117817	< 380.		UG/KG	9/20/95		Bis(2-ethylhexyl)phthalate
PRS16-010B13	95.12840	101553	< 380.		UG/KG	9/20/95		4-Bromophenylphenyl ether
PRS16-010B13	95.12840	85687	< 380.		UG/KG	9/20/95		Butyl benzyl phthalate
PRS16-010B13	95.12840	59507	< 380.		UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010B13	95.12840	106478	< 380.		UG/KG	9/20/95		4-Chloroaniline
PRS16-010B13	95.12840	91587	< 380.		UG/KG	9/20/95		2-Chloronaphthalene
PRS16-010B13	95.12840	95578	< 380.		UG/KG	9/20/95		o-Chlorophenol
PRS16-010B13	95.12840	7005723	< 380.		UG/KG	9/20/95		4-Chlorophenylphenyl ether
PRS16-010B13	95.12840	218019	< 380.		UG/KG	9/20/95		Chrysene
PRS16-010B13	95.12840	84742	< 380.		UG/KG	9/20/95		Di-n-butyl phthalate

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B13	95.12840	117840	< 380.		UG/KG	9/20/95		Di-n-octyl phthalate
PRS16-010B13	95.12840	53703	< 380.		UG/KG	9/20/95		Dibenzo[a,h]anthracene
PRS16-010B13	95.12840	132649	< 1900.		UG/KG	9/20/95		Dibenzofuran
PRS16-010B13	95.12840	95501	< 380.		UG/KG	9/20/95		o-Dichlorobenzene (1,2)
PRS16-010B13	95.12840	541731	< 380.		UG/KG	9/20/95		m-Dichlorobenzene (1,3)
PRS16-010B13	95.12840	106467	< 380.		UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010B13	95.12840	91941	< 760.		UG/KG	9/20/95		3,3'-Dichlorobenzidine
PRS16-010B13	95.12840	120832	< 380.		UG/KG	9/20/95		2,4-Dichlorophenol
PRS16-010B13	95.12840	84662	< 380.		UG/KG	9/20/95		Diethyl phthalate
PRS16-010B13	95.12840	131113	< 380.		UG/KG	9/20/95		Dimethyl phthalate
PRS16-010B13	95.12840	105679	< 380.		UG/KG	9/20/95		2,4-Dimethylphenol
PRS16-010B13	95.12840	51285	< 380.		UG/KG	9/20/95		2,4-Dinitrophenol
PRS16-010B13	95.12840	121142	< 380.		UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010B13	95.12840	606202	< 380.		UG/KG	9/20/95		2,6-Dinitrotoluene
PRS16-010B13	95.12840	206440	< 380.		UG/KG	9/20/95		Fluoranthene
PRS16-010B13	95.12840	86737	< 380.		UG/KG	9/20/95		Fluorene
PRS16-010B13	95.12840	118741	< 380.		UG/KG	9/20/95		Hexachlorobenzene
PRS16-010B13	95.12840	87683	< 1900.		UG/KG	9/20/95		Hexachlorobutadiene
PRS16-010B13	95.12840	77474	< 380.		UG/KG	9/20/95		Hexachlorocyclopentadiene
PRS16-010B13	95.12840	67721	< 380.		UG/KG	9/20/95		Hexachloroethane
PRS16-010B13	95.12840	193395	< 380.		UG/KG	9/20/95		Indeno[1,2,3-cd]pyrene
PRS16-010B13	95.12840	78591	< 380.		UG/KG	9/20/95		Isophorone
PRS16-010B13	95.12840	534521	< 1900.		UG/KG	9/20/95		2-Methyl-4,6-dinitrophenol
PRS16-010B13	95.12840	91576	< 380.		UG/KG	9/20/95		2-Methylnaphthalene
PRS16-010B13	95.12840	95487	< 380.		UG/KG	9/20/95		2-Methylphenol
PRS16-010B13	95.12840	106445	< 380.		UG/KG	9/20/95		4-Methylphenol
PRS16-010B13	95.12840	91203	< 380.		UG/KG	9/20/95		Naphthalene
PRS16-010B13	95.12840	88744	< 760.		UG/KG	9/20/95		2-Nitroaniline
PRS16-010B13	95.12840	99092	< 760.		UG/KG	9/20/95		3-Nitroaniline
PRS16-010B13	95.12840	100016	< 760.		UG/KG	9/20/95		4-Nitroaniline
PRS16-010B13	95.12840	98953	< 380.		UG/KG	9/20/95		Nitrobenzene
PRS16-010B13	95.12840	88755	< 380.		UG/KG	9/20/95		2-Nitrophenol
PRS16-010B13	95.12840	100027	< 1900.		UG/KG	9/20/95		4-Nitrophenol
PRS16-010B13	95.12840	621647	< 380.		UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010B13	95.12840	62759	< 380.		UG/KG	9/20/95		N-Nitrosodimethylamine
PRS16-010B13	95.12840	86306	< 380.		UG/KG	9/20/95		N-Nitrosodiphenylamine

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B13	95.12840	87865	< 380.		UG/KG	9/20/95		Pentachlorophenol
PRS16-010B13	95.12840	85018	< 380.		UG/KG	9/20/95		Phenanthrene
PRS16-010B13	95.12840	108952	< 380.		UG/KG	9/20/95		Phenol
PRS16-010B13	95.12840	129000	< 380.		UG/KG	9/20/95		Pyrene
PRS16-010B13	95.12840	120821	< 380.		UG/KG	9/20/95		1,2,4-Trichlorobenzene
PRS16-010B13	95.12840	95954	< 380.		UG/KG	9/20/95		2,4,5-Trichlorophenol
PRS16-010B13	95.12840	88062	< 380.		UG/KG	9/20/95		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 95.12840

none

********** CST ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 20-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082804 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12841 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 8/23/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B14	95.12841	83329	< 450.		UG/KG	9/20/95		Acenaphthene
PRS16-010B14	95.12841	208968	< 450.		UG/KG	9/20/95		Acenaphthylene
PRS16-010B14	95.12841	62533	< 450.		UG/KG	9/20/95		Aniline
PRS16-010B14	95.12841	120127	< 450.		UG/KG	9/20/95		Anthracene
PRS16-010B14	95.12841	103333	< 450.		UG/KG	9/20/95		Azobenzene
PRS16-010B14	95.12841	92875	< 2300.		UG/KG	9/20/95		m-Benzidine
PRS16-010B14	95.12841	56553	< 450.		UG/KG	9/20/95		Benzo[a]anthracene
PRS16-010B14	95.12841	50328	< 450.		UG/KG	9/20/95		Benzo[a]pyrene
PRS16-010B14	95.12841	205992	< 450.		UG/KG	9/20/95		Benzo[b]fluoranthene
PRS16-010B14	95.12841	191242	< 450.		UG/KG	9/20/95		Benzo[g,h,i]perylene
PRS16-010B14	95.12841	207089	< 450.		UG/KG	9/20/95		Benzo[k]fluoranthene
PRS16-010B14	95.12841	65850	< 2300.		UG/KG	9/20/95		Benzoic acid
PRS16-010B14	95.12841	100516	< 450.		UG/KG	9/20/95		Benzyl alcohol
PRS16-010B14	95.12841	111911	< 450.		UG/KG	9/20/95		Bis(2-chloroethoxy)methane
PRS16-010B14	95.12841	111444	< 450.		UG/KG	9/20/95		Bis(2-chloroethyl)ether
PRS16-010B14	95.12841	108601	< 450.		UG/KG	9/20/95		Bis(2-chloroisopropyl)ether
PRS16-010B14	95.12841	117817	2000.	600.	UG/KG	9/20/95		Bis(2-ethylhexyl)phthalate
PRS16-010B14	95.12841	101553	< 450.		UG/KG	9/20/95		4-Bromophenylphenyl ether
PRS16-010B14	95.12841	85687	< 450.		UG/KG	9/20/95		Butyl benzyl phthalate
PRS16-010B14	95.12841	59507	< 450.		UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010B14	95.12841	106478	< 450.		UG/KG	9/20/95		4-Chloroaniline
PRS16-010B14	95.12841	91587	< 450.		UG/KG	9/20/95		2-Chloronaphthalene
PRS16-010B14	95.12841	95578	< 450.		UG/KG	9/20/95		o-Chlorophenol
PRS16-010B14	95.12841	7005723	< 450.		UG/KG	9/20/95		4-Chlorophenylphenyl ether
PRS16-010B14	95.12841	218019	< 450.		UG/KG	9/20/95		Chrysene
PRS16-010B14	95.12841	84742	< 450.		UG/KG	9/20/95		Di-n-butyl phthalate

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B14	95.12841	117840	< 450.		UG/KG	9/20/95		Di-n-octyl phthalate
PRS16-010B14	95.12841	53703	< 450.		UG/KG	9/20/95		Dibenzo[a,h]anthracene
PRS16-010B14	95.12841	132649	< 2300.		UG/KG	9/20/95		Dibenzofuran
PRS16-010B14	95.12841	95501	< 450.		UG/KG	9/20/95		o-Dichlorobenzene (1,2)
PRS16-010B14	95.12841	541731	< 450.		UG/KG	9/20/95		m-Dichlorobenzene (1,3)
PRS16-010B14	95.12841	106467	< 450.		UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010B14	95.12841	91941	< 910.		UG/KG	9/20/95		3,3'-Dichlorobenzidine
PRS16-010B14	95.12841	120832	< 450.		UG/KG	9/20/95		2,4-Dichlorophenol
PRS16-010B14	95.12841	84662	< 450.		UG/KG	9/20/95		Diethyl phthalate
PRS16-010B14	95.12841	131113	< 450.		UG/KG	9/20/95		Dimethyl phthalate
PRS16-010B14	95.12841	105679	< 450.		UG/KG	9/20/95		2,4-Dimethylphenol
PRS16-010B14	95.12841	51285	< 450.		UG/KG	9/20/95		2,4-Dinitrophenol
PRS16-010B14	95.12841	121142	< 450.		UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010B14	95.12841	606202	< 450.		UG/KG	9/20/95		2,6-Dinitrotoluene
PRS16-010B14	95.12841	206440	< 450.		UG/KG	9/20/95		Fluoranthene
PRS16-010B14	95.12841	86737	< 450.		UG/KG	9/20/95		Fluorene
PRS16-010B14	95.12841	118741	< 450.		UG/KG	9/20/95		Hexachlorobenzene
PRS16-010B14	95.12841	87683	< 2300.		UG/KG	9/20/95		Hexachlorobutadiene
PRS16-010B14	95.12841	77474	< 450.		UG/KG	9/20/95		Hexachlorocyclopentadiene
PRS16-010B14	95.12841	67721	< 450.		UG/KG	9/20/95		Hexachloroethane
PRS16-010B14	95.12841	193395	< 450.		UG/KG	9/20/95		Indeno[1,2,3-cd]pyrene
PRS16-010B14	95.12841	78591	< 450.		UG/KG	9/20/95		Isophorone
PRS16-010B14	95.12841	534521	< 2300.		UG/KG	9/20/95		2-Methyl-4,6-dinitrophenol
PRS16-010B14	95.12841	91576	< 450.		UG/KG	9/20/95		2-Methylnaphthalene
PRS16-010B14	95.12841	95487	< 450.		UG/KG	9/20/95		2-Methylphenol
PRS16-010B14	95.12841	106445	< 450.		UG/KG	9/20/95		4-Methylphenol
PRS16-010B14	95.12841	91203	< 450.		UG/KG	9/20/95		Naphthalene
PRS16-010B14	95.12841	88744	< 910.		UG/KG	9/20/95		2-Nitroaniline
PRS16-010B14	95.12841	99092	< 910.		UG/KG	9/20/95		3-Nitroaniline
PRS16-010B14	95.12841	100016	< 910.		UG/KG	9/20/95		4-Nitroaniline
PRS16-010B14	95.12841	98953	< 450.		UG/KG	9/20/95		Nitrobenzene
PRS16-010B14	95.12841	88755	< 450.		UG/KG	9/20/95		2-Nitrophenol
PRS16-010B14	95.12841	100027	< 2300.		UG/KG	9/20/95		4-Nitrophenol
PRS16-010B14	95.12841	621647	< 450.		UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010B14	95.12841	62759	< 450.		UG/KG	9/20/95		N-Nitrosodimethylamine
PRS16-0[illegible]	95.12841	86306	< 450.		UG/KG	[illegible]/20/95		N-Nitrosodiphenylamine

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B14	95.12841	87865	< 450.		UG/KG	9/20/95		Pentachlorophenol
PRS16-010B14	95.12841	85018	< 450.		UG/KG	9/20/95		Phenanthrene
PRS16-010B14	95.12841	108952	1100.	330.	UG/KG	9/20/95		Phenol
PRS16-010B14	95.12841	129000	< 450.		UG/KG	9/20/95		Pyrene
PRS16-010B14	95.12841	120821	< 450.		UG/KG	9/20/95		1,2,4-Trichlorobenzene
PRS16-010B14	95.12841	95954	< 450.		UG/KG	9/20/95		2,4,5-Trichlorophenol
PRS16-010B14	95.12841	88062	< 450.		UG/KG	9/20/95		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 95.12841

none

********** CST ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 20-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082804 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12842 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 8/23/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J1	95.12842	83329	< 440.		UG/KG	9/20/95		Acenaphthene
PRS16-010J1	95.12842	208968	< 440.		UG/KG	9/20/95		Acenaphthylene
PRS16-010J1	95.12842	62533	< 440.		UG/KG	9/20/95		Aniline
PRS16-010J1	95.12842	120127	< 440.		UG/KG	9/20/95		Anthracene
PRS16-010J1	95.12842	103333	< 440.		UG/KG	9/20/95		Azobenzene
PRS16-010J1	95.12842	92875	< 2200.		UG/KG	9/20/95		m-Benzidine
PRS16-010J1	95.12842	56553	< 440.		UG/KG	9/20/95		Benzo[a]anthracene
PRS16-010J1	95.12842	50328	< 440.		UG/KG	9/20/95		Benzo[a]pyrene
PRS16-010J1	95.12842	205992	< 440.		UG/KG	9/20/95		Benzo[b]fluoranthene
PRS16-010J1	95.12842	191242	< 440.		UG/KG	9/20/95		Benzo[g,h,i]perylene
PRS16-010J1	95.12842	207089	< 440.		UG/KG	9/20/95		Benzo[k]fluoranthene
PRS16-010J1	95.12842	65850	< 2200.		UG/KG	9/20/95		Benzoic acid
PRS16-010J1	95.12842	100516	< 440.		UG/KG	9/20/95		Benzyl alcohol
PRS16-010J1	95.12842	111911	< 440.		UG/KG	9/20/95		Bis(2-chloroethoxy)methane
PRS16-010J1	95.12842	111444	< 440.		UG/KG	9/20/95		Bis(2-chloroethyl)ether
PRS16-010J1	95.12842	108601	< 440.		UG/KG	9/20/95		Bis(2-chloroisopropyl)ether
PRS16-010J1	95.12842	117817	5100.	1530.	UG/KG	9/20/95		Bis(2-ethylhexyl)phthalate
PRS16-010J1	95.12842	101553	< 440.		UG/KG	9/20/95		4-Bromophenylphenyl ether
PRS16-010J1	95.12842	85687	< 440.		UG/KG	9/20/95		Butyl benzyl phthalate
PRS16-010J1	95.12842	59507	< 440.		UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010J1	95.12842	106478	< 440.		UG/KG	9/20/95		4-Chloroaniline
PRS16-010J1	95.12842	91587	< 440.		UG/KG	9/20/95		2-Chloronaphthalene
PRS16-010J1	95.12842	95578	< 440.		UG/KG	9/20795		o-Chlorophenol
PRS16-010J1	95.12842	7005723	< 440.		UG/KG	9/20/95		4-Chlorophenylphenyl ether
PRS16-010J1	95.12842	218019	< 440.		UG/KG	9/20/95		Chrysene
PRS16-01[illegible]	95.12842	84742	< 440.		UG/KG	9/20/95		Di-n-butyl phthalate

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J1	95.12842	117840	< 440.		UG/KG	9/20/95		Di-n-octyl phthalate
PRS16-010J1	95.12842	53703	< 440.		UG/KG	9/20/95		Dibenzo[a,h]anthracene
PRS16-010J1	95.12842	132649	< 2200.		UG/KG	9/20/95		Dibenzofuran
PRS16-010J1	95.12842	95501	< 440.		UG/KG	9/20/95		o-Dichlorobenzene (1,2)
PRS16-010J1	95.12842	541731	< 440.		UG/KG	9/20/95		m-Dichlorobenzene (1,3)
PRS16-010J1	95.12842	106467	< 440.		UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010J1	95.12842	91941	< 880.		UG/KG	9/20/95		3,3'-Dichlorobenzidine
PRS16-010J1	95.12842	120832	< 440.		UG/KG	9/20/95		2,4-Dichlorophenol
PRS16-010J1	95.12842	84662	< 440.		UG/KG	9/20/95		Diethyl phthalate
PRS16-010J1	95.12842	131113	< 440.		UG/KG	9/20/95		Dimethyl phthalate
PRS16-010J1	95.12842	105679	< 440.		UG/KG	9/20/95		2,4-Dimethylphenol
PRS16-010J1	95.12842	51285	< 440.		UG/KG	9/20/95		2,4-Dinitrophenol
PRS16-010J1	95.12842	121142	< 440.		UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010J1	95.12842	606202	< 440.		UG/KG	9/20/95		2,6-Dinitrotoluene
PRS16-010J1	95.12842	206440	< 440.		UG/KG	9/20/95		Fluoranthene
PRS16-010J1	95.12842	86737	< 440.		UG/KG	9/20/95		Fluorene
PRS16-010J1	95.12842	118741	< 440.		UG/KG	9/20/95		Hexachlorobenzene
PRS16-010J1	95.12842	87683	< 2200.		UG/KG	9/20/95		Hexachlorobutadiene
PRS16-010J1	95.12842	77474	< 440.		UG/KG	9/20/95		Hexachlorocyclopentadiene
PRS16-010J1	95.12842	67721	< 440.		UG/KG	9/20/95		Hexachloroethane
PRS16-010J1	95.12842	193395	< 440.		UG/KG	9/20/95		Indeno[1,2,3-cd]pyrene
PRS16-010J1	95.12842	78591	< 440.		UG/KG	9/20/95		Isophorone
PRS16-010J1	95.12842	534521	< 2200.		UG/KG	9/20/95		2-Methyl-4,6-dinitrophenol
PRS16-010J1	95.12842	91576	< 440.		UG/KG	9/20/95		2-Methylnaphthalene
PRS16-010J1	95.12842	95487	< 440.		UG/KG	9/20/95		2-Methylphenol
PRS16-010J1	95.12842	106445	< 440.		UG/KG	9/20/95		4-Methylphenol
PRS16-010J1	95.12842	91203	< 440.		UG/KG	9/20/95		Naphthalene
PRS16-010J1	95.12842	88744	< 880.		UG/KG	9/20/95		2-Nitroaniline
PRS16-010J1	95.12842	99092	< 880.		UG/KG	9/20/95		3-Nitroaniline
PRS16-010J1	95.12842	100016	< 880.		UG/KG	9/20/95		4-Nitroaniline
PRS16-010J1	95.12842	98953	< 440.		UG/KG	9/20/95		Nitrobenzene
PRS16-010J1	95.12842	88755	< 440.		UG/KG	9/20/95		2-Nitrophenol
PRS16-010J1	95.12842	100027	< 2200.		UG/KG	9/20/95		4-Nitrophenol
PRS16-010J1	95.12842	621647	< 440.		UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010J1	95.12842	62759	< 440.		UG/KG	9/20/95		N-Nitrosodimethylamine
PRS16-010J1	95.12842	86306	< 440.		UG/KG	9/20/95		N-Nitrosodiphenylamine

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J1	95.12842	87865	< 440.		UG/KG	9/20/95		Pentachlorophenol
PRS16-010J1	95.12842	85018	< 440.		UG/KG	9/20/95		Phenanthrene
PRS16-010J1	95.12842	108952	< 440.		UG/KG	9/20/95		Phenol
PRS16-010J1	95.12842	129000	< 440.		UG/KG	9/20/95		Pyrene
PRS16-010J1	95.12842	120821	< 440.		UG/KG	9/20/95		1,2,4-Trichlorobenzene
PRS16-010J1	95.12842	95954	< 440.		UG/KG	9/20/95		2,4,5-Trichlorophenol
PRS16-010J1	95.12842	88062	< 440.		UG/KG	9/20/95		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 95.12842

none

********** CST ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 20-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082804 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12843 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 8/24/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J2	95.12843	83329	< 440.		UG/KG	9/20/95		Acenaphthene
PRS16-010J2	95.12843	208968	< 440.		UG/KG	9/20/95		Acenaphthylene
PRS16-010J2	95.12843	62533	< 440.		UG/KG	9/20/95		Aniline
PRS16-010J2	95.12843	120127	< 440.		UG/KG	9/20/95		Anthracene
PRS16-010J2	95.12843	103333	< 440.		UG/KG	9/20/95		Azobenzene
PRS16-010J2	95.12843	92875	< 2200.		UG/KG	9/20/95		m-Benzidine
PRS16-010J2	95.12843	56553	< 440.		UG/KG	9/20/95		Benzo[a]anthracene
PRS16-010J2	95.12843	50328	< 440.		UG/KG	9/20/95		Benzo[a]pyrene
PRS16-010J2	95.12843	205992	< 440.		UG/KG	9/20/95		Benzo[b]fluoranthene
PRS16-010J2	95.12843	191242	< 440.		UG/KG	9/20/95		Benzo[g,h,i]perylene
PRS16-010J2	95.12843	207089	< 440.		UG/KG	9/20/95		Benzo[k]fluoranthene
PRS16-010J2	95.12843	65850	< 2200.		UG/KG	9/20/95		Benzoic acid
PRS16-010J2	95.12843	100516	< 440.		UG/KG	9/20/95		Benzyl alcohol
PRS16-010J2	95.12843	111911	< 440.		UG/KG	9/20/95		Bis(2-chloroethoxy)methane
PRS16-010J2	95.12843	111444	< 440.		UG/KG	9/20/95		Bis(2-chloroethyl)ether
PRS16-010J2	95.12843	108601	< 440.		UG/KG	9/20/95		Bis(2-chloroisopropyl)ether
PRS16-010J2	95.12843	117817	< 440.		UG/KG	9/20/95		Bis(2-ethylhexyl)phthalate
PRS16-010J2	95.12843	101553	< 440.		UG/KG	9/20/95		4-Bromophenylphenyl ether
PRS16-010J2	95.12843	85687	< 440.		UG/KG	9/20/95		Butyl benzyl phthalate
PRS16-010J2	95.12843	59507	< 440.		UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010J2	95.12843	106478	< 440.		UG/KG	9/20/95		4-Chloroaniline
PRS16-010J2	95.12843	91587	< 440.		UG/KG	9/20/95		2-Chloronaphthalene
PRS16-010J2	95.12843	95578	< 440.		UG/KG	9/20/95		o-Chlorophenol
PRS16-010J2	95.12843	7005723	< 440.		UG/KG	9/20/95		4-Chlorophenylphenyl ether
PRS16-010J2	95.12843	218019	< 440.		UG/KG	9/20/95		Chrysene
PRS16-010J2	95.12843	84742	< 440.		UG/KG	9/20/95		Di-n-butyl phthalate

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J2	95.12843	117840	< 440.		UG/KG	9/20/95		Di-n-octyl phthalate
PRS16-010J2	95.12843	53703	< 440.		UG/KG	9/20/95		Dibenzo[a,h]anthracene
PRS16-010J2	95.12843	132649	< 2200.		UG/KG	9/20/95		Dibenzofuran
PRS16-010J2	95.12843	95501	< 440.		UG/KG	9/20/95		o-Dichlorobenzene (1,2)
PRS16-010J2	95.12843	541731	< 440.		UG/KG	9/20/95		m-Dichlorobenzene (1,3)
PRS16-010J2	95.12843	106467	< 440.		UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010J2	95.12843	91941	< 890.		UG/KG	9/20/95		3,3'-Dichlorobenzidine
PRS16-010J2	95.12843	120832	< 440.		UG/KG	9/20/95		2,4-Dichlorophenol
PRS16-010J2	95.12843	84662	< 440.		UG/KG	9/20/95		Diethyl phthalate
PRS16-010J2	95.12843	131113	< 440.		UG/KG	9/20/95		Dimethyl phthalate
PRS16-010J2	95.12843	105679	< 440.		UG/KG	9/20/95		2,4-Dimethylphenol
PRS16-010J2	95.12843	51285	< 440.		UG/KG	9/20/95		2,4-Dinitrophenol
PRS16-010J2	95.12843	121142	< 440.		UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010J2	95.12843	606202	< 440.		UG/KG	9/20/95		2,6-Dinitrotoluene
PRS16-010J2	95.12843	206440	< 440.		UG/KG	9/20/95		Fluoranthene
PRS16-010J2	95.12843	86737	< 440.		UG/KG	9/20/95		Fluorene
PRS16-010J2	95.12843	118741	< 440.		UG/KG	9/20/95		Hexachlorobenzene
PRS16-010J2	95.12843	87683	< 2200.		UG/KG	9/20/95		Hexachlorobutadiene
PRS16-010J2	95.12843	77474	< 440.		UG/KG	9/20/95		Hexachlorocyclopentadiene
PRS16-010J2	95.12843	67721	< 440.		UG/KG	9/20/95		Hexachloroethane
PRS16-010J2	95.12843	193395	< 440.		UG/KG	9/20/95		Indeno[1,2,3-cd]pyrene
PRS16-010J2	95.12843	78591	< 440.		UG/KG	9/20/95		Isophorone
PRS16-010J2	95.12843	534521	< 2200.		UG/KG	9/20/95		2-Methyl-4,6-dinitrophenol
PRS16-010J2	95.12843	91576	< 440.		UG/KG	9/20/95		2-Methylnaphthalene
PRS16-010J2	95.12843	95487	< 440.		UG/KG	9/20/95		2-Methylphenol
PRS16-010J2	95.12843	106445	< 440.		UG/KG	9/20/95		4-Methylphenol
PRS16-010J2	95.12843	91203	< 440.		UG/KG	9/20/95		Naphthalene
PRS16-010J2	95.12843	88744	< 890.		UG/KG	9/20/95		2-Nitroaniline
PRS16-010J2	95.12843	99092	< 890.		UG/KG	9/20/95		3-Nitroaniline
PRS16-010J2	95.12843	100016	< 890.		UG/KG	9/20/95		4-Nitroaniline
PRS16-010J2	95.12843	98953	< 440.		UG/KG	9/20/95		Nitrobenzene
PRS16-010J2	95.12843	88755	< 440.		UG/KG	9/20/95		2-Nitrophenol
PRS16-010J2	95.12843	100027	< 2200.		UG/KG	9/20/95		4-Nitrophenol
PRS16-010J2	95.12843	621647	< 440.		UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010J2	95.12843	62759	< 440.		UG/KG	9/20/95		N-Nitrosodimethylamine
PRS16-01[illegible]	95.12843	86306	< 440.		UG/KG	9/20/95		N-Nitrosodiphenylamine

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J2	95.12843	87865	< 440.		UG/KG	9/20/95		Pentachlorophenol
PRS16-010J2	95.12843	85018	< 440.		UG/KG	9/20/95		Phenanthrene
PRS16-010J2	95.12843	108952	< 440.		UG/KG	9/20/95		Phenol
PRS16-010J2	95.12843	129000	< 440.		UG/KG	9/20/95		Pyrene
PRS16-010J2	95.12843	120821	< 440.		UG/KG	9/20/95		1,2,4-Trichlorobenzene
PRS16-010J2	95.12843	95954	< 440.		UG/KG	9/20/95		2,4,5-Trichlorophenol
PRS16-010J2	95.12843	88062	< 440.		UG/KG	9/20/95		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 95.12843

none

********** CST ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 20-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082804 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12844 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 9/01/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J3	95.12844	83329	< 440.		UG/KG	9/20/95		Acenaphthene
PRS16-010J3	95.12844	208968	< 440.		UG/KG	9/20/95		Acenaphthylene
PRS16-010J3	95.12844	62533	< 440.		UG/KG	9/20/95		Aniline
PRS16-010J3	95.12844	120127	< 440.		UG/KG	9/20/95		Anthracene
PRS16-010J3	95.12844	103333	< 440.		UG/KG	9/20/95		Azobenzene
PRS16-010J3	95.12844	92875	< 2200.		UG/KG	9/20/95		m-Benzidine
PRS16-010J3	95.12844	56553	< 440.		UG/KG	9/20/95		Benzo[a]anthracene
PRS16-010J3	95.12844	50328	< 440.		UG/KG	9/20/95		Benzo[a]pyrene
PRS16-010J3	95.12844	205992	< 440.		UG/KG	9/20/95		Benzo[b]fluoranthene
PRS16-010J3	95.12844	191242	< 440.		UG/KG	9/20/95		Benzo[g,h,i]perylene
PRS16-010J3	95.12844	207089	< 440.		UG/KG	9/20/95		Benzo[k]fluoranthene
PRS16-010J3	95.12844	65850	< 2200.		UG/KG	9/20/95		Benzoic acid
PRS16-010J3	95.12844	100516	< 440.		UG/KG	9/20/95		Benzyl alcohol
PRS16-010J3	95.12844	111911	< 440.		UG/KG	9/20/95		Bis(2-chloroethoxy)methane
PRS16-010J3	95.12844	111444	< 440.		UG/KG	9/20/95		Bis(2-chloroethyl)ether
PRS16-010J3	95.12844	108601	< 440.		UG/KG	9/20/95		Bis(2-chloroisopropyl)ether
PRS16-010J3	95.12844	117817	< 440.		UG/KG	9/20/95		Bis(2-ethylhexyl)phthalate
PRS16-010J3	95.12844	101553	< 440.		UG/KG	9/20/95		4-Bromophenylphenyl ether
PRS16-010J3	95.12844	85687	< 440.		UG/KG	9/20/95		Butyl benzyl phthalate
PRS16-010J3	95.12844	59507	< 440.		UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010J3	95.12844	106478	< 440.		UG/KG	9/20/95		4-Chloroaniline
PRS16-010J3	95.12844	91587	< 440.		UG/KG	9/20/95		2-Chloronaphthalene
PRS16-010J3	95.12844	95578	< 440.		UG/KG	9/20/95		o-Chlorophenol
PRS16-010J3	95.12844	7005723	< 440.		UG/KG	9/20/95		4-Chlorophenylphenyl ether
PRS16-010J3	95.12844	218019	< 440.		UG/KG	9/20/95		Chrysene
PRS16-010J3	95.12844	84742	< 440.		UG/KG	9/20/95		Di-n-butyl phthalate

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J3	95.12844	117840	< 440.		UG/KG	9/20/95		Di-n-octyl phthalate
PRS16-010J3	95.12844	53703	< 440.		UG/KG	9/20/95		Dibenzo[a,h]anthracene
PRS16-010J3	95.12844	132649	< 2200.		UG/KG	9/20/95		Dibenzofuran
PRS16-010J3	95.12844	95501	< 440.		UG/KG	9/20/95		o-Dichlorobenzene (1,2)
PRS16-010J3	95.12844	541731	< 440.		UG/KG	9/20/95		m-Dichlorobenzene (1,3)
PRS16-010J3	95.12844	106467	< 440.		UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010J3	95.12844	91941	< 880.		UG/KG	9/20/95		3,3'-Dichlorobenzidine
PRS16-010J3	95.12844	120832	< 440.		UG/KG	9/20/95		2,4-Dichlorophenol
PRS16-010J3	95.12844	84662	< 440.		UG/KG	9/20/95		Diethyl phthalate
PRS16-010J3	95.12844	131113	< 440.		UG/KG	9/20/95		Dimethyl phthalate
PRS16-010J3	95.12844	105679	< 440.		UG/KG	9/20/95		2,4-Dimethylphenol
PRS16-010J3	95.12844	51285	< 440.		UG/KG	9/20/95		2,4-Dinitrophenol
PRS16-010J3	95.12844	121142	< 440.		UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010J3	95.12844	606202	< 440.		UG/KG	9/20/95		2,6-Dinitrotoluene
PRS16-010J3	95.12844	206440	< 440.		UG/KG	9/20/95		Fluoranthene
PRS16-010J3	95.12844	86737	< 440.		UG/KG	9/20/95		Fluorene
PRS16-010J3	95.12844	118741	< 440.		UG/KG	9/20/95		Hexachlorobenzene
PRS16-010J3	95.12844	87683	< 2200.		UG/KG	9/20/95		Hexachlorobutadiene
PRS16-010J3	95.12844	77474	< 440.		UG/KG	9/20/95		Hexachlorocyclopentadiene
PRS16-010J3	95.12844	67721	< 440.		UG/KG	9/20/95		Hexachloroethane
PRS16-010J3	95.12844	193395	< 440.		UG/KG	9/20/95		Indeno[1,2,3-cd]pyrene
PRS16-010J3	95.12844	78591	< 440.		UG/KG	9/20/95		Isophorone
PRS16-010J3	95.12844	534521	< 2200.		UG/KG	9/20/95		2-Methyl-4,6-dinitrophenol
PRS16-010J3	95.12844	91576	< 440.		UG/KG	9/20/95		2-Methylnaphthalene
PRS16-010J3	95.12844	95487	< 440.		UG/KG	9/20/95		2-Methylphenol
PRS16-010J3	95.12844	106445	< 440.		UG/KG	9/20/95		4-Methylphenol
PRS16-010J3	95.12844	91203	< 440.		UG/KG	9/20/95		Naphthalene
PRS16-010J3	95.12844	88744	< 880.		UG/KG	9/20/95		2-Nitroaniline
PRS16-010J3	95.12844	99092	< 880.		UG/KG	9/20/95		3-Nitroaniline
PRS16-010J3	95.12844	100016	< 880.		UG/KG	9/20/95		4-Nitroaniline
PRS16-010J3	95.12844	98953	< 440.		UG/KG	9/20/95		Nitrobenzene
PRS16-010J3	95.12844	88755	< 440.		UG/KG	9/20/95		2-Nitrophenol
PRS16-010J3	95.12844	100027	< 2200.		UG/KG	9/20/95		4-Nitrophenol
PRS16-010J3	95.12844	621647	< 440.		UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010J3	95.12844	62759	< 440.		UG/KG	9/20/95		N-Nitrosodimethylamine
PRS16-010J3	95.12844	86306	< 440.		UG/KG	9/20/95		N-Nitrosodiphenylamine

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J3	95.12844	87865	< 440.		UG/KG	9/20/95		Pentachlorophenol
PRS16-010J3	95.12844	85018	< 440.		UG/KG	9/20/95		Phenanthrene
PRS16-010J3	95.12844	108952	< 440.		UG/KG	9/20/95		Phenol
PRS16-010J3	95.12844	129000	< 440.		UG/KG	9/20/95		Pyrene
PRS16-010J3	95.12844	120821	< 440.		UG/KG	9/20/95		1,2,4-Trichlorobenzene
PRS16-010J3	95.12844	95954	< 440.		UG/KG	9/20/95		2,4,5-Trichlorophenol
PRS16-010J3	95.12844	88062	< 440.		UG/KG	9/20/95		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 95.12844

none

********** CST ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 20-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082804 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12845 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 8/23/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J4	95.12845	83329	< 440.		UG/KG	9/20/95		Acenaphthene
PRS16-010J4	95.12845	208968	< 440.		UG/KG	9/20/95		Acenaphthylene
PRS16-010J4	95.12845	62533	< 440.		UG/KG	9/20/95		Aniline
PRS16-010J4	95.12845	120127	< 440.		UG/KG	9/20/95		Anthracene
PRS16-010J4	95.12845	103333	< 440.		UG/KG	9/20/95		Azobenzene
PRS16-010J4	95.12845	92875	< 2200.		UG/KG	9/20/95		m-Benzidine
PRS16-010J4	95.12845	56553	< 440.		UG/KG	9/20/95		Benzo[a]anthracene
PRS16-010J4	95.12845	50328	< 440.		UG/KG	9/20/95		Benzo[a]pyrene
PRS16-010J4	95.12845	205992	< 440.		UG/KG	9/20/95		Benzo[b]fluoranthene
PRS16-010J4	95.12845	191242	< 440.		UG/KG	9/20/95		Benzo[g,h,i]perylene
PRS16-010J4	95.12845	207089	< 440.		UG/KG	9/20/95		Benzo[k]fluoranthene
PRS16-010J4	95.12845	65850	< 2200.		UG/KG	9/20/95		Benzoic acid
PRS16-010J4	95.12845	100516	< 440.		UG/KG	9/20/95		Benzyl alcohol
PRS16-010J4	95.12845	111911	< 440.		UG/KG	9/20/95		Bis(2-chloroethoxy)methane
PRS16-010J4	95.12845	111444	< 440.		UG/KG	9/20/95		Bis(2-chloroethyl)ether
PRS16-010J4	95.12845	108601	< 440.		UG/KG	9/20/95		Bis(2-chloroisopropyl)ether
PRS16-010J4	95.12845	117817	< 440.		UG/KG	9/20/95		Bis(2-ethylhexyl)phthalate
PRS16-010J4	95.12845	101553	< 440.		UG/KG	9/20/95		4-Bromophenylphenyl ether
PRS16-010J4	95.12845	85687	< 440.		UG/KG	9/20/95		Butyl benzyl phthalate
PRS16-010J4	95.12845	59507	< 440.		UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010J4	95.12845	106478	< 440.		UG/KG	9/20/95		4-Chloroaniline
PRS16-010J4	95.12845	91587	< 440.		UG/KG	9/20/95		2-Chloronaphthalene
PRS16-010J4	95.12845	95578	< 440.		UG/KG	9/20/95		o-Chlorophenol
PRS16-010J4	95.12845	7005723	< 440.		UG/KG	9/20/95		4-Chlorophenylphenyl ether
PRS16-010J4	95.12845	218019	< 440.		UG/KG	9/20/95		Chrysene
PRS16-010J4	95.12845	84742	< 440.		UG/KG	9/20/95		Di-n-butyl phthalate

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J4	95.12845	117840	< 440.		UG/KG	9/20/95		Di-n-octyl phthalate
PRS16-010J4	95.12845	53703	< 440.		UG/KG	9/20/95		Dibenzo[a,h]anthracene
PRS16-010J4	95.12845	132649	< 2200.		UG/KG	9/20/95		Dibenzofuran
PRS16-010J4	95.12845	95501	< 440.		UG/KG	9/20/95		o-Dichlorobenzene (1,2)
PRS16-010J4	95.12845	541731	< 440.		UG/KG	9/20/95		m-Dichlorobenzene (1,3)
PRS16-010J4	95.12845	106467	< 440.		UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010J4	95.12845	91941	< 880.		UG/KG	9/20/95		3,3'-Dichlorobenzidine
PRS16-010J4	95.12845	120832	< 440.		UG/KG	9/20/95		2,4-Dichlorophenol
PRS16-010J4	95.12845	84662	< 440.		UG/KG	9/20/95		Diethyl phthalate
PRS16-010J4	95.12845	131113	< 440.		UG/KG	9/20/95		Dimethyl phthalate
PRS16-010J4	95.12845	105679	< 440.		UG/KG	9/20/95		2,4-Dimethylphenol
PRS16-010J4	95.12845	51285	< 440.		UG/KG	9/20/95		2,4-Dinitrophenol
PRS16-010J4	95.12845	121142	< 440.		UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010J4	95.12845	606202	< 440.		UG/KG	9/20/95		2,6-Dinitrotoluene
PRS16-010J4	95.12845	206440	< 440.		UG/KG	9/20/95		Fluoranthene
PRS16-010J4	95.12845	86737	< 440.		UG/KG	9/20/95		Fluorene
PRS16-010J4	95.12845	118741	< 440.		UG/KG	9/20/95		Hexachlorobenzene
PRS16-010J4	95.12845	87683	< 2200.		UG/KG	9/20/95		Hexachlorobutadiene
PRS16-010J4	95.12845	77474	< 440.		UG/KG	9/20/95		Hexachlorocyclopentadiene
PRS16-010J4	95.12845	67721	< 440.		UG/KG	9/20/95		Hexachloroethane
PRS16-010J4	95.12845	193395	< 440.		UG/KG	9/20/95		Indeno[1,2,3-cd]pyrene
PRS16-010J4	95.12845	78591	< 440.		UG/KG	9/20/95		Isophorone
PRS16-010J4	95.12845	534521	< 2200.		UG/KG	9/20/95		2-Methyl-4,6-dinitrophenol
PRS16-010J4	95.12845	91576	< 440.		UG/KG	9/20/95		2-Methylnaphthalene
PRS16-010J4	95.12845	95487	< 440.		UG/KG	9/20/95		2-Methylphenol
PRS16-010J4	95.12845	106445	< 440.		UG/KG	9/20/95		4-Methylphenol
PRS16-010J4	95.12845	91203	< 440.		UG/KG	9/20/95		Naphthalene
PRS16-010J4	95.12845	88744	< 880.		UG/KG	9/20/95		2-Nitroaniline
PRS16-010J4	95.12845	99092	< 880.		UG/KG	9/20/95		3-Nitroaniline
PRS16-010J4	95.12845	100016	< 880.		UG/KG	9/20/95		4-Nitroaniline
PRS16-010J4	95.12845	98953	< 440.		UG/KG	9/20/95		Nitrobenzene
PRS16-010J4	95.12845	88755	< 440.		UG/KG	9/20/95		2-Nitrophenol
PRS16-010J4	95.12845	100027	< 2200.		UG/KG	9/20/95		4-Nitrophenol
PRS16-010J4	95.12845	621647	< 440.		UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010J4	95.12845	62759	< 440.		UG/KG	9/20/95		N-Nitrosodimethylamine
PRS16-010J4	95.12845	86306	< 440.		UG/KG	9/20/95		N-Nitrosodiphenylamine

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J4	95.12845	87865	< 440.		UG/KG	9/20/95		Pentachlorophenol
PRS16-010J4	95.12845	85018	< 440.		UG/KG	9/20/95		Phenanthrene
PRS16-010J4	95.12845	108952	< 440.		UG/KG	9/20/95		Phenol
PRS16-010J4	95.12845	129000	< 440.		UG/KG	9/20/95		Pyrene
PRS16-010J4	95.12845	120821	< 440.		UG/KG	9/20/95		1,2,4-Trichlorobenzene
PRS16-010J4	95.12845	95954	< 440.		UG/KG	9/20/95		2,4,5-Trichlorophenol
PRS16-010J4	95.12845	88062	< 440.		UG/KG	9/20/95		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 95.12845

none

********** CST ANALYTICAL REPORT **********

Matrix Spike Results for Sample # 95.12845 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 8/23/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J4	95.12845	83329	2200.	1200.	UG/KG	9/20/95		Acenaphthene
PRS16-010J4	95.12845	59507	4300.	2400.	UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010J4	95.12845	95578	4300.	2200.	UG/KG	9/20/95		o-Chlorophenol
PRS16-010J4	95.12845	106467	2200.	1000.	UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010J4	95.12845	121142	2200.	1200.	UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010J4	95.12845	100027	4300.	2100.	UG/KG	9/20/95		4-Nitrophenol
PRS16-010J4	95.12845	621647	2200.	1300.	UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010J4	95.12845	87865	4300.	3200.	UG/KG	9/20/95		Pentachlorophenol
PRS16-010J4	95.12845	108952	4300.	2100.	UG/KG	9/20/95		Phenol
PRS16-010J4	95.12845	129000	2200.	1500.	UG/KG	9/20/95		Pyrene
PRS16-010J4	95.12845	120821	2200.	1100.	UG/KG	9/20/95		1,2,4-Trichlorobenzene

Matrix Spike Duplicate Results for Sample # 95.12845 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 8/23/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J4	95.12845	83329	2200.	1300.	UG/KG	9/20/95		Acenaphthene
PRS16-010J4	95.12845	59507	4300.	2800.	UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010J4	95.12845	95578	4300.	2600.	UG/KG	9/20/95		o-Chlorophenol
PRS16-010J4	95.12845	106467	2200.	1200.	UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010J4	95.12845	121142	2200.	1300.	UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010J4	95.12845	100027	4300.	2300.	UG/KG	9/20/95		4-Nitrophenol
PRS16-010J4	95.12845	621647	2200.	1500.	UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010J4	95.12845	87865	4300.	3500.	UG/KG	9/20/95		Pentachlorophenol
PRS16-010J4	95.12845	108952	4300.	2500.	UG/KG	9/20/95		Phenol
PRS16-010J4	95.12845	129000	2200.	1600.	UG/KG	9/20/95		Pyrene
PRS16-010J4	95.12845	120821	2200.	1300.	UG/KG	9/20/95		1,2,4-Trichlorobenzene

********** CST ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 20-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082804 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12846 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 9/01/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J5	95.12846	83329	< 430.		UG/KG	9/20/95		Acenaphthene
PRS16-010J5	95.12846	208968	< 430.		UG/KG	9/20/95		Acenaphthylene
PRS16-010J5	95.12846	62533	< 430.		UG/KG	9/20/95		Aniline
PRS16-010J5	95.12846	120127	< 430.		UG/KG	9/20/95		Anthracene
PRS16-010J5	95.12846	103333	< 430.		UG/KG	9/20/95		Azobenzene
PRS16-010J5	95.12846	92875	< 2100.		UG/KG	9/20/95		m-Benzidine
PRS16-010J5	95.12846	56553	< 430.		UG/KG	9/20/95		Benzo[a]anthracene
PRS16-010J5	95.12846	50328	< 430.		UG/KG	9/20/95		Benzo[a]pyrene
PRS16-010J5	95.12846	205992	< 430.		UG/KG	9/20/95		Benzo[b]fluoranthene
PRS16-010J5	95.12846	191242	< 430.		UG/KG	9/20/95		Benzo[g,h,i]perylene
PRS16-010J5	95.12846	207089	< 430.		UG/KG	9/20/95		Benzo[k]fluoranthene
PRS16-010J5	95.12846	65850	< 2100.		UG/KG	9/20/95		Benzoic acid
PRS16-010J5	95.12846	100516	< 430.		UG/KG	9/20/95		Benzyl alcohol
PRS16-010J5	95.12846	111911	< 430.		UG/KG	9/20/95		Bis(2-chloroethoxy)methane
PRS16-010J5	95.12846	111444	< 430.		UG/KG	9/20/95		Bis(2-chloroethyl)ether
PRS16-010J5	95.12846	108601	< 430.		UG/KG	9/20/95		Bis(2-chloroisopropyl)ether
PRS16-010J5	95.12846	117817	< 430.		UG/KG	9/20/95		Bis(2-ethylhexyl)phthalate
PRS16-010J5	95.12846	101553	< 430.		UG/KG	9/20/95		4-Bromophenylphenyl ether
PRS16-010J5	95.12846	85687	< 430.		UG/KG	9/20/95		Butyl benzyl phthalate
PRS16-010J5	95.12846	59507	< 430.		UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010J5	95.12846	106478	< 430.		UG/KG	9/20/95		4-Chloroaniline
PRS16-010J5	95.12846	91587	< 430.		UG/KG	9/20/95		2-Chloronaphthalene
PRS16-010J5	95.12846	95578	< 430.		UG/KG	9/20/95		o-Chlorophenol
PRS16-010J5	95.12846	7005723	< 430.		UG/KG	9/20/95		4-Chlorophenylphenyl ether
PRS16-010J5	95.12846	218019	< 430.		UG/KG	9/20/95		Chrysene
PRS16-010J5	95.12846	84742	< 430.		UG/KG	9/20/95		Di-n-butyl phthalate

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J5	95.12846	117840	< 430.		UG/KG	9/20/95		Di-n-octyl phthalate
PRS16-010J5	95.12846	53703	< 430.		UG/KG	9/20/95		Dibenzo[a,h]anthracene
PRS16-010J5	95.12846	132649	< 2100.		UG/KG	9/20/95		Dibenzofuran
PRS16-010J5	95.12846	95501	< 430.		UG/KG	9/20/95		o-Dichlorobenzene (1,2)
PRS16-010J5	95.12846	541731	< 430.		UG/KG	9/20/95		m-Dichlorobenzene (1,3)
PRS16-010J5	95.12846	106467	< 430.		UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010J5	95.12846	91941	< 860.		UG/KG	9/20/95		3,3'-Dichlorobenzidine
PRS16-010J5	95.12846	120832	< 430.		UG/KG	9/20/95		2,4-Dichlorophenol
PRS16-010J5	95.12846	84662	< 430.		UG/KG	9/20/95		Diethyl phthalate
PRS16-010J5	95.12846	131113	< 430.		UG/KG	9/20/95		Dimethyl phthalate
PRS16-010J5	95.12846	105679	< 430.		UG/KG	9/20/95		2,4-Dimethylphenol
PRS16-010J5	95.12846	51285	< 430.		UG/KG	9/20/95		2,4-Dinitrophenol
PRS16-010J5	95.12846	121142	< 430.		UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010J5	95.12846	606202	< 430.		UG/KG	9/20/95		2,6-Dinitrotoluene
PRS16-010J5	95.12846	206440	< 430.		UG/KG	9/20/95		Fluoranthene
PRS16-010J5	95.12846	86737	< 430.		UG/KG	9/20/95		Fluorene
PRS16-010J5	95.12846	118741	< 430.		UG/KG	9/20/95		Hexachlorobenzene
PRS16-010J5	95.12846	87683	< 2100.		UG/KG	9/20/95		Hexachlorobutadiene
PRS16-010J5	95.12846	77474	< 430.		UG/KG	9/20/95		Hexachlorocyclopentadiene
PRS16-010J5	95.12846	67721	< 430.		UG/KG	9/20/95		Hexachloroethane
PRS16-010J5	95.12846	193395	< 430.		UG/KG	9/20/95		Indeno[1,2,3-cd]pyrene
PRS16-010J5	95.12846	78591	< 430.		UG/KG	9/20/95		Isophorone
PRS16-010J5	95.12846	534521	< 2100.		UG/KG	9/20/95		2-Methyl-4,6-dinitrophenol
PRS16-010J5	95.12846	91576	< 430.		UG/KG	9/20/95		2-Methylnaphthalene
PRS16-010J5	95.12846	95487	< 430.		UG/KG	9/20/95		2-Methylphenol
PRS16-010J5	95.12846	106445	< 430.		UG/KG	9/20/95		4-Methylphenol
PRS16-010J5	95.12846	91203	< 430.		UG/KG	9/20/95		Naphthalene
PRS16-010J5	95.12846	88744	< 860.		UG/KG	9/20/95		2-Nitroaniline
PRS16-010J5	95.12846	99092	< 860.		UG/KG	9/20/95		3-Nitroaniline
PRS16-010J5	95.12846	100016	< 860.		UG/KG	9/20/95		4-Nitroaniline
PRS16-010J5	95.12846	98953	< 430.		UG/KG	9/20/95		Nitrobenzene
PRS16-010J5	95.12846	88755	< 430.		UG/KG	9/20/95		2-Nitrophenol
PRS16-010J5	95.12846	100027	< 2100.		UG/KG	9/20/95		4-Nitrophenol
PRS16-010J5	95.12846	621647	< 430.		UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010J5	95.12846	62759	< 430.		UG/KG	9/20/95		N-Nitrosodimethylamine
PRS16-010J5	95.12846	86306	< 430.		UG/KG	9/20/95		N-Nitrosodiphenylamine

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J5	95.12846	87865	< 430.		UG/KG	9/20/95		Pentachlorophenol
PRS16-010J5	95.12846	85018	< 430.		UG/KG	9/20/95		Phenanthrene
PRS16-010J5	95.12846	108952	< 430.		UG/KG	9/20/95		Phenol
PRS16-010J5	95.12846	129000	< 430.		UG/KG	9/20/95		Pyrene
PRS16-010J5	95.12846	120821	< 430.		UG/KG	9/20/95		1,2,4-Trichlorobenzene
PRS16-010J5	95.12846	95954	< 430.		UG/KG	9/20/95		2,4,5-Trichlorophenol
PRS16-010J5	95.12846	88062	< 430.		UG/KG	9/20/95		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 95.12846

none

********** CST ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 20-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082804 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12847 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 9/01/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J6	95.12847	83329	< 410.		UG/KG	9/20/95		Acenaphthene
PRS16-010J6	95.12847	208968	< 410.		UG/KG	9/20/95		Acenaphthylene
PRS16-010J6	95.12847	62533	< 410.		UG/KG	9/20/95		Aniline
PRS16-010J6	95.12847	120127	< 410.		UG/KG	9/20/95		Anthracene
PRS16-010J6	95.12847	103333	< 410.		UG/KG	9/20/95		Azobenzene
PRS16-010J6	95.12847	92875	< 2100.		UG/KG	9/20/95		m-Benzidine
PRS16-010J6	95.12847	56553	< 410.		UG/KG	9/20/95		Benzo[a]anthracene
PRS16-010J6	95.12847	50328	< 410.		UG/KG	9/20/95		Benzo[a]pyrene
PRS16-010J6	95.12847	205992	< 410.		UG/KG	9/20/95		Benzo[b]fluoranthene
PRS16-010J6	95.12847	191242	< 410.		UG/KG	9/20/95		Benzo[g,h,i]perylene
PRS16-010J6	95.12847	207089	< 410.		UG/KG	9/20/95		Benzo[k]fluoranthene
PRS16-010J6	95.12847	65850	< 2100.		UG/KG	9/20/95		Benzoic acid
PRS16-010J6	95.12847	100516	< 410.		UG/KG	9/20/95		Benzyl alcohol
PRS16-010J6	95.12847	111911	< 410.		UG/KG	9/20/95		Bis(2-chloroethoxy)methane
PRS16-010J6	95.12847	111444	< 410.		UG/KG	9/20/95		Bis(2-chloroethyl)ether
PRS16-010J6	95.12847	108601	< 410.		UG/KG	9/20/95		Bis(2-chloroisopropyl)ether
PRS16-010J6	95.12847	117817	< 410.		UG/KG	9/20/95		Bis(2-ethylhexyl)phthalate
PRS16-010J6	95.12847	101553	< 410.		UG/KG	9/20/95		4-Bromophenylphenyl ether
PRS16-010J6	95.12847	85687	< 410.		UG/KG	9/20/95		Butyl benzyl phthalate
PRS16-010J6	95.12847	59507	< 410.		UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010J6	95.12847	106478	< 410.		UG/KG	9/20/95		4-Chloroaniline
PRS16-010J6	95.12847	91587	< 410.		UG/KG	9/20/95		2-Chloronaphthalene
PRS16-010J6	95.12847	95578	< 410.		UG/KG	9/20/95		o-Chlorophenol
PRS16-010J6	95.12847	7005723	< 410.		UG/KG	9/20/95		4-Chlorophenylphenyl ether
PRS16-010J6	95.12847	218019	< 410.		UG/KG	9/20/95		Chrysene
PRS16-010J6	95.12847	84742	< 410.		UG/KG	9/20/95		Di-n-butyl phthalate

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J6	95.12847	117840	< 410.		UG/KG	9/20/95		Di-n-octyl phthalate
PRS16-010J6	95.12847	53703	< 410.		UG/KG	9/20/95		Dibenzo[a,h]anthracene
PRS16-010J6	95.12847	132649	< 2100.		UG/KG	9/20/95		Dibenzofuran
PRS16-010J6	95.12847	95501	< 410.		UG/KG	9/20/95		o-Dichlorobenzene (1,2)
PRS16-010J6	95.12847	541731	< 410.		UG/KG	9/20/95		m-Dichlorobenzene (1,3)
PRS16-010J6	95.12847	106467	< 410.		UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010J6	95.12847	91941	< 830.		UG/KG	9/20/95		3,3'-Dichlorobenzidine
PRS16-010J6	95.12847	120832	< 410.		UG/KG	9/20/95		2,4-Dichlorophenol
PRS16-010J6	95.12847	84662	< 410.		UG/KG	9/20/95		Diethyl phthalate
PRS16-010J6	95.12847	131113	< 410.		UG/KG	9/20/95		Dimethyl phthalate
PRS16-010J6	95.12847	105679	< 410.		UG/KG	9/20/95		2,4-Dimethylphenol
PRS16-010J6	95.12847	51285	< 410.		UG/KG	9/20/95		2,4-Dinitrophenol
PRS16-010J6	95.12847	121142	< 410.		UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010J6	95.12847	606202	< 410.		UG/KG	9/20/95		2,6-Dinitrotoluene
PRS16-010J6	95.12847	206440	< 410.		UG/KG	9/20/95		Fluoranthene
PRS16-010J6	95.12847	86737	< 410.		UG/KG	9/20/95		Fluorene
PRS16-010J6	95.12847	118741	< 410.		UG/KG	9/20/95		Hexachlorobenzene
PRS16-010J6	95.12847	87683	< 2100.		UG/KG	9/20/95		Hexachlorobutadiene
PRS16-010J6	95.12847	77474	< 410.		UG/KG	9/20/95		Hexachlorocyclopentadiene
PRS16-010J6	95.12847	67721	< 410.		UG/KG	9/20/95		Hexachloroethane
PRS16-010J6	95.12847	193395	< 410.		UG/KG	9/20/95		Indeno[1,2,3-cd]pyrene
PRS16-010J6	95.12847	78591	< 410.		UG/KG	9/20/95		Isophorone
PRS16-010J6	95.12847	534521	< 2100.		UG/KG	9/20/95		2-Methyl-4,6-dinitrophenol
PRS16-010J6	95.12847	91576	< 410.		UG/KG	9/20/95		2-Methylnaphthalene
PRS16-010J6	95.12847	95487	< 410.		UG/KG	9/20/95		2-Methylphenol
PRS16-010J6	95.12847	106445	< 410.		UG/KG	9/20/95		4-Methylphenol
PRS16-010J6	95.12847	91203	< 410.		UG/KG	9/20/95		Naphthalene
PRS16-010J6	95.12847	88744	< 830.		UG/KG	9/20/95		2-Nitroaniline
PRS16-010J6	95.12847	99092	< 830.		UG/KG	9/20/95		3-Nitroaniline
PRS16-010J6	95.12847	100016	< 830.		UG/KG	9/20/95		4-Nitroaniline
PRS16-010J6	95.12847	98953	< 410.		UG/KG	9/20/95		Nitrobenzene
PRS16-010J6	95.12847	88755	< 410.		UG/KG	9/20/95		2-Nitrophenol
PRS16-010J6	95.12847	100027	< 2100.		UG/KG	9/20/95		4-Nitrophenol
PRS16-010J6	95.12847	621647	< 410.		UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010J6	95.12847	62759	< 410.		UG/KG	9/20/95		N-Nitrosodimethylamine
PRS16-010J6	95.12847	86306	< 410.		UG/KG	9/20/95		N-Nitrosodiphenylamine

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J6	95.12847	87865	< 410.		UG/KG	9/20/95		Pentachlorophenol
PRS16-010J6	95.12847	85018	< 410.		UG/KG	9/20/95		Phenanthrene
PRS16-010J6	95.12847	108952	< 410.		UG/KG	9/20/95		Phenol
PRS16-010J6	95.12847	129000	< 410.		UG/KG	9/20/95		Pyrene
PRS16-010J6	95.12847	120821	< 410.		UG/KG	9/20/95		1,2,4-Trichlorobenzene
PRS16-010J6	95.12847	95954	< 410.		UG/KG	9/20/95		2,4,5-Trichlorophenol
PRS16-010J6	95.12847	88062	< 410.		UG/KG	9/20/95		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 95.12847

none

********** CST ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 20-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082804 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12848 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 9/02/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J7	95.12848	83329	< 430.		UG/KG	9/20/95		Acenaphthene
PRS16-010J7	95.12848	208968	< 430.		UG/KG	9/20/95		Acenaphthylene
PRS16-010J7	95.12848	62533	< 430.		UG/KG	9/20/95		Aniline
PRS16-010J7	95.12848	120127	< 430.		UG/KG	9/20/95		Anthracene
PRS16-010J7	95.12848	103333	< 430.		UG/KG	9/20/95		Azobenzene
PRS16-010J7	95.12848	92875	< 2200.		UG/KG	9/20/95		m-Benzidine
PRS16-010J7	95.12848	56553	< 430.		UG/KG	9/20/95		Benzo[a]anthracene
PRS16-010J7	95.12848	50328	< 430.		UG/KG	9/20/95		Benzo[a]pyrene
PRS16-010J7	95.12848	205992	540.	162.	UG/KG	9/20/95		Benzo[b]fluoranthene
PRS16-010J7	95.12848	191242	< 430.		UG/KG	9/20/95		Benzo[g,h,i]perylene
PRS16-010J7	95.12848	207089	< 430.		UG/KG	9/20/95		Benzo[k]fluoranthene
PRS16-010J7	95.12848	65850	< 2200.		UG/KG	9/20/95		Benzoic acid
PRS16-010J7	95.12848	100516	< 430.		UG/KG	9/20/95		Benzyl alcohol
PRS16-010J7	95.12848	111911	< 430.		UG/KG	9/20/95		Bis(2-chloroethoxy)methane
PRS16-010J7	95.12848	111444	< 430.		UG/KG	9/20/95		Bis(2-chloroethyl)ether
PRS16-010J7	95.12848	108601	< 430.		UG/KG	9/20/95		Bis(2-chloroisopropyl)ether
PRS16-010J7	95.12848	117817	< 430.		UG/KG	9/20/95		Bis(2-ethylhexyl)phthalate
PRS16-010J7	95.12848	101553	< 430.		UG/KG	9/20/95		4-Bromophenylphenyl ether
PRS16-010J7	95.12848	85687	< 430.		UG/KG	9/20/95		Butyl benzyl phthalate
PRS16-010J7	95.12848	59507	< 430.		UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010J7	95.12848	106478	< 430.		UG/KG	9/20/95		4-Chloroaniline
PRS16-010J7	95.12848	91587	< 430.		UG/KG	9/20/95		2-Chloronaphthalene
PRS16-010J7	95.12848	95578	< 430.		UG/KG	9/20/95		o-Chlorophenol
PRS16-010J7	95.12848	7005723	< 430.		UG/KG	9/20/95		4-Chlorophenylphenyl ether
PRS16-010J7	95.12848	218019	< 430.		UG/KG	9/20/95		Chrysene
PRS16-010J7	95.12848	84742	< 430.		UG/KG	9/20/95		Di-n-butyl phthalate

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J7	95.12848	117840	< 430.		UG/KG	9/20/95		Di-n-octyl phthalate
PRS16-010J7	95.12848	53703	< 430.		UG/KG	9/20/95		Dibenzo[a,h]anthracene
PRS16-010J7	95.12848	132649	< 2200.		UG/KG	9/20/95		Dibenzofuran
PRS16-010J7	95.12848	95501	< 430.		UG/KG	9/20/95		o-Dichlorobenzene (1,2)
PRS16-010J7	95.12848	541731	< 430.		UG/KG	9/20/95		m-Dichlorobenzene (1,3)
PRS16-010J7	95.12848	106467	< 430.		UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010J7	95.12848	91941	< 870.		UG/KG	9/20/95		3,3'-Dichlorobenzidine
PRS16-010J7	95.12848	120832	< 430.		UG/KG	9/20/95		2,4-Dichlorophenol
PRS16-010J7	95.12848	84662	< 430.		UG/KG	9/20/95		Diethyl phthalate
PRS16-010J7	95.12848	131113	< 430.		UG/KG	9/20/95		Dimethyl phthalate
PRS16-010J7	95.12848	105679	< 430.		UG/KG	9/20/95		2,4-Dimethylphenol
PRS16-010J7	95.12848	51285	< 430.		UG/KG	9/20/95		2,4-Dinitrophenol
PRS16-010J7	95.12848	121142	< 430.		UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010J7	95.12848	606202	< 430.		UG/KG	9/20/95		2,6-Dinitrotoluene
PRS16-010J7	95.12848	206440	510.	153.	UG/KG	9/20/95		Fluoranthene
PRS16-010J7	95.12848	86737	< 430.		UG/KG	9/20/95		Fluorene
PRS16-010J7	95.12848	118741	< 430.		UG/KG	9/20/95		Hexachlorobenzene
PRS16-010J7	95.12848	87683	< 2200.		UG/KG	9/20/95		Hexachlorobutadiene
PRS16-010J7	95.12848	77474	< 430.		UG/KG	9/20/95		Hexachlorocyclopentadiene
PRS16-010J7	95.12848	67721	< 430.		UG/KG	9/20/95		Hexachloroethane
PRS16-010J7	95.12848	193395	< 430.		UG/KG	9/20/95		Indeno[1,2,3-cd]pyrene
PRS16-010J7	95.12848	78591	< 430.		UG/KG	9/20/95		Isophorone
PRS16-010J7	95.12848	534521	< 2200.		UG/KG	9/20/95		2-Methyl-4,6-dinitrophenol
PRS16-010J7	95.12848	91576	< 430.		UG/KG	9/20/95		2-Methylnaphthalene
PRS16-010J7	95.12848	95487	< 430.		UG/KG	9/20/95		2-Methylphenol
PRS16-010J7	95.12848	106445	< 430.		UG/KG	9/20/95		4-Methylphenol
PRS16-010J7	95.12848	91203	< 430.		UG/KG	9/20/95		Naphthalene
PRS16-010J7	95.12848	88744	< 870.		UG/KG	9/20/95		2-Nitroaniline
PRS16-010J7	95.12848	99092	< 870.		UG/KG	9/20/95		3-Nitroaniline
PRS16-010J7	95.12848	100016	< 870.		UG/KG	9/20/95		4-Nitroaniline
PRS16-010J7	95.12848	98953	< 430.		UG/KG	9/20/95		Nitrobenzene
PRS16-010J7	95.12848	88755	< 430.		UG/KG	9/20/95		2-Nitrophenol
PRS16-010J7	95.12848	100027	< 2200.		UG/KG	9/20/95		4-Nitrophenol
PRS16-010J7	95.12848	621647	< 430.		UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010J7	95.12848	62759	< 430.		UG/KG	9/20/95		N-Nitrosodimethylamine
PRS16-010J7	95.12848	86306	< 430.		UG/KG	9/20/95		N-Nitrosodiphenylamine

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J7	95.12848	87865	< 430.		UG/KG	9/20/95		Pentachlorophenol
PRS16-010J7	95.12848	85018	< 430.		UG/KG	9/20/95		Phenanthrene
PRS16-010J7	95.12848	108952	< 430.		UG/KG	9/20/95		Phenol
PRS16-010J7	95.12848	129000	520.	156.	UG/KG	9/20/95		Pyrene
PRS16-010J7	95.12848	120821	< 430.		UG/KG	9/20/95		1,2,4-Trichlorobenzene
PRS16-010J7	95.12848	95954	< 430.		UG/KG	9/20/95		2,4,5-Trichlorophenol
PRS16-010J7	95.12848	88062	< 430.		UG/KG	9/20/95		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 95.12848

none

********** CST ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 20-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082804 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12849 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 9/07/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J8	95.12849	83329	< 430.		UG/KG	9/20/95		Acenaphthene
PRS16-010J8	95.12849	208968	< 430.		UG/KG	9/20/95		Acenaphthylene
PRS16-010J8	95.12849	62533	< 430.		UG/KG	9/20/95		Aniline
PRS16-010J8	95.12849	120127	< 430.		UG/KG	9/20/95		Anthracene
PRS16-010J8	95.12849	103333	< 430.		UG/KG	9/20/95		Azobenzene
PRS16-010J8	95.12849	92875	< 2200.		UG/KG	9/20/95		m-Benzidine
PRS16-010J8	95.12849	56553	< 430.		UG/KG	9/20/95		Benzo[a]anthracene
PRS16-010J8	95.12849	50328	< 430.		UG/KG	9/20/95		Benzo[a]pyrene
PRS16-010J8	95.12849	205992	< 430.		UG/KG	9/20/95		Benzo[b]fluoranthene
PRS16-010J8	95.12849	191242	< 430.		UG/KG	9/20/95		Benzo[g,h,i]perylene
PRS16-010J8	95.12849	207089	< 430.		UG/KG	9/20/95		Benzo[k]fluoranthene
PRS16-010J8	95.12849	65850	< 2200.		UG/KG	9/20/95		Benzoic acid
PRS16-010J8	95.12849	100516	< 430.		UG/KG	9/20/95		Benzyl alcohol
PRS16-010J8	95.12849	111911	< 430.		UG/KG	9/20/95		Bis(2-chloroethoxy)methane
PRS16-010J8	95.12849	111444	< 430.		UG/KG	9/20/95		Bis(2-chloroethyl)ether
PRS16-010J8	95.12849	108601	< 430.		UG/KG	9/20/95		Bis(2-chloroisopropyl)ether
PRS16-010J8	95.12849	117817	< 430.		UG/KG	9/20/95		Bis(2-ethylhexyl)phthalate
PRS16-010J8	95.12849	101553	< 430.		UG/KG	9/20/95		4-Bromophenylphenyl ether
PRS16-010J8	95.12849	85687	< 430.		UG/KG	9/20/95		Butyl benzyl phthalate
PRS16-010J8	95.12849	59507	< 430.		UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010J8	95.12849	106478	< 430.		UG/KG	9/20/95		4-Chloroaniline
PRS16-010J8	95.12849	91587	< 430.		UG/KG	9/20/95		2-Chloronaphthalene
PRS16-010J8	95.12849	95578	< 430.		UG/KG	9/20/95		o-Chlorophenol
PRS16-010J8	95.12849	7005723	< 430.		UG/KG	9/20/95		4-Chlorophenylphenyl ether
PRS16-010J8	95.12849	218019	< 430.		UG/KG	9/20/95		Chrysene
PRS16-010J8	95.12849	84742	< 430.		UG/KG	9/20/95		Di-n-butyl phthalate

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J8	95.12849	117840	< 430.		UG/KG	9/20/95		Di-n-octyl phthalate
PRS16-010J8	95.12849	53703	< 430.		UG/KG	9/20/95		Dibenzo[a,h]anthracene
PRS16-010J8	95.12849	132649	< 2200.		UG/KG	9/20/95		Dibenzofuran
PRS16-010J8	95.12849	95501	< 430.		UG/KG	9/20/95		o-Dichlorobenzene (1,2)
PRS16-010J8	95.12849	541731	< 430.		UG/KG	9/20/95		m-Dichlorobenzene (1,3)
PRS16-010J8	95.12849	106467	< 430.		UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010J8	95.12849	91941	< 870.		UG/KG	9/20/95		3,3'-Dichlorobenzidine
PRS16-010J8	95.12849	120832	< 430.		UG/KG	9/20/95		2,4-Dichlorophenol
PRS16-010J8	95.12849	84662	< 430.		UG/KG	9/20/95		Diethyl phthalate
PRS16-010J8	95.12849	131113	< 430.		UG/KG	9/20/95		Dimethyl phthalate
PRS16-010J8	95.12849	105679	< 430.		UG/KG	9/20/95		2,4-Dimethylphenol
PRS16-010J8	95.12849	51285	< 430.		UG/KG	9/20/95		2,4-Dinitrophenol
PRS16-010J8	95.12849	121142	< 430.		UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010J8	95.12849	606202	< 430.		UG/KG	9/20/95		2,6-Dinitrotoluene
PRS16-010J8	95.12849	206440	< 430.		UG/KG	9/20/95		Fluoranthene
PRS16-010J8	95.12849	86737	< 430.		UG/KG	9/20/95		Fluorene
PRS16-010J8	95.12849	118741	< 430.		UG/KG	9/20/95		Hexachlorobenzene
PRS16-010J8	95.12849	87683	< 2200.		UG/KG	9/20/95		Hexachlorobutadiene
PRS16-010J8	95.12849	77474	< 430.		UG/KG	9/20/95		Hexachlorocyclopentadiene
PRS16-010J8	95.12849	67721	< 430.		UG/KG	9/20/95		Hexachloroethane
PRS16-010J8	95.12849	193395	< 430.		UG/KG	9/20/95		Indeno[1,2,3-cd]pyrene
PRS16-010J8	95.12849	78591	< 430.		UG/KG	9/20/95		Isophorone
PRS16-010J8	95.12849	534521	< 2200.		UG/KG	9/20/95		2-Methyl-4,6-dinitrophenol
PRS16-010J8	95.12849	91576	< 430.		UG/KG	9/20/95		2-Methylnaphthalene
PRS16-010J8	95.12849	95487	< 430.		UG/KG	9/20/95		2-Methylphenol
PRS16-010J8	95.12849	106445	< 430.		UG/KG	9/20/95		4-Methylphenol
PRS16-010J8	95.12849	91203	< 430.		UG/KG	9/20/95		Naphthalene
PRS16-010J8	95.12849	88744	< 870.		UG/KG	9/20/95		2-Nitroaniline
PRS16-010J8	95.12849	99092	< 870.		UG/KG	9/20/95		3-Nitroaniline
PRS16-010J8	95.12849	100016	< 870.		UG/KG	9/20/95		4-Nitroaniline
PRS16-010J8	95.12849	98953	< 430.		UG/KG	9/20/95		Nitrobenzene
PRS16-010J8	95.12849	88755	< 430.		UG/KG	9/20/95		2-Nitrophenol
PRS16-010J8	95.12849	100027	< 2200.		UG/KG	9/20/95		4-Nitrophenol
PRS16-010J8	95.12849	621647	< 430.		UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010J8	95.12849	62759	< 430.		UG/KG	9/20/95		N-Nitrosodimethylamine
PRS16-010J8	95.12849	86306	< 430.		UG/KG	9/20/95		N-Nitrosodiphenylamine

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J8	95.12849	87865	< 430.		UG/KG	9/20/95		Pentachlorophenol
PRS16-010J8	95.12849	85018	< 430.		UG/KG	9/20/95		Phenanthrene
PRS16-010J8	95.12849	108952	< 430.		UG/KG	9/20/95		Phenol
PRS16-010J8	95.12849	129000	< 430.		UG/KG	9/20/95		Pyrene
PRS16-010J8	95.12849	120821	< 430.		UG/KG	9/20/95		1,2,4-Trichlorobenzene
PRS16-010J8	95.12849	95954	< 430.		UG/KG	9/20/95		2,4,5-Trichlorophenol
PRS16-010J8	95.12849	88062	< 430.		UG/KG	9/20/95		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 95.12849

none

********** CST ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 20-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082804 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12850 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 8/28/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J9	95.12850	83329	< 410.		UG/KG	9/20/95		Acenaphthene
PRS16-010J9	95.12850	208968	< 410.		UG/KG	9/20/95		Acenaphthylene
PRS16-010J9	95.12850	62533	< 410.		UG/KG	9/20/95		Aniline
PRS16-010J9	95.12850	120127	< 410.		UG/KG	9/20/95		Anthracene
PRS16-010J9	95.12850	103333	< 410.		UG/KG	9/20/95		Azobenzene
PRS16-010J9	95.12850	92875	< 2000.		UG/KG	9/20/95		m-Benzidine
PRS16-010J9	95.12850	56553	< 410.		UG/KG	9/20/95		Benzo[a]anthracene
PRS16-010J9	95.12850	50328	< 410.		UG/KG	9/20/95		Benzo[a]pyrene
PRS16-010J9	95.12850	205992	< 410.		UG/KG	9/20/95		Benzo[b]fluoranthene
PRS16-010J9	95.12850	191242	< 410.		UG/KG	9/20/95		Benzo[g,h,i]perylene
PRS16-010J9	95.12850	207089	< 410.		UG/KG	9/20/95		Benzo[k]fluoranthene
PRS16-010J9	95.12850	65850	< 2000.		UG/KG	9/20/95		Benzoic acid
PRS16-010J9	95.12850	100516	< 410.		UG/KG	9/20/95		Benzyl alcohol
PRS16-010J9	95.12850	111911	< 410.		UG/KG	9/20/95		Bis(2-chloroethoxy)methane
PRS16-010J9	95.12850	111444	< 410.		UG/KG	9/20/95		Bis(2-chloroethyl)ether
PRS16-010J9	95.12850	108601	< 410.		UG/KG	9/20/95		Bis(2-chloroisopropyl)ether
PRS16-010J9	95.12850	117817	4700.	1410.	UG/KG	9/20/95		Bis(2-ethylhexyl)phthalate
PRS16-010J9	95.12850	101553	< 410.		UG/KG	9/20/95		4-Bromophenylphenyl ether
PRS16-010J9	95.12850	85687	< 410.		UG/KG	9/20/95		Butyl benzyl phthalate
PRS16-010J9	95.12850	59507	< 410.		UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010J9	95.12850	106478	< 410.		UG/KG	9/20/95		4-Chloroaniline
PRS16-010J9	95.12850	91587	< 410.		UG/KG	9/20/95		2-Chloronaphthalene
PRS16-010J9	95.12850	95578	< 410.		UG/KG	9/20/95		o-Chlorophenol
PRS16-010J9	95.12850	7005723	< 410.		UG/KG	9/20/95		4-Chlorophenylphenyl ether
PRS16-010J9	95.12850	218019	< 410.		UG/KG	9/20/95		Chrysene
PRS16-010J9	95.12850	84742	< 410.		UG/KG	9/20/95		Di-n-butyl phthalate

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J9	95.12850	117840	< 410.		UG/KG	9/20/95		Di-n-octyl phthalate
PRS16-010J9	95.12850	53703	< 410.		UG/KG	9/20/95		Dibenzo[a,h]anthracene
PRS16-010J9	95.12850	132649	< 2000.		UG/KG	9/20/95		Dibenzofuran
PRS16-010J9	95.12850	95501	< 410.		UG/KG	9/20/95		o-Dichlorobenzene (1,2)
PRS16-010J9	95.12850	541731	< 410.		UG/KG	9/20/95		m-Dichlorobenzene (1,3)
PRS16-010J9	95.12850	106467	< 410.		UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010J9	95.12850	91941	< 820.		UG/KG	9/20/95		3,3'-Dichlorobenzidine
PRS16-010J9	95.12850	120832	< 410.		UG/KG	9/20/95		2,4-Dichlorophenol
PRS16-010J9	95.12850	84662	< 410.		UG/KG	9/20/95		Diethyl phthalate
PRS16-010J9	95.12850	131113	< 410.		UG/KG	9/20/95		Dimethyl phthalate
PRS16-010J9	95.12850	105679	< 410.		UG/KG	9/20/95		2,4-Dimethylphenol
PRS16-010J9	95.12850	51285	< 410.		UG/KG	9/20/95		2,4-Dinitrophenol
PRS16-010J9	95.12850	121142	< 410.		UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010J9	95.12850	606202	< 410.		UG/KG	9/20/95		2,6-Dinitrotoluene
PRS16-010J9	95.12850	206440	< 410.		UG/KG	9/20/95		Fluoranthene
PRS16-010J9	95.12850	86737	< 410.		UG/KG	9/20/95		Fluorene
PRS16-010J9	95.12850	118741	< 410.		UG/KG	9/20/95		Hexachlorobenzene
PRS16-010J9	95.12850	87683	< 2000.		UG/KG	9/20/95		Hexachlorobutadiene
PRS16-010J9	95.12850	77474	< 410.		UG/KG	9/20/95		Hexachlorocyclopentadiene
PRS16-010J9	95.12850	67721	< 410.		UG/KG	9/20/95		Hexachloroethane
PRS16-010J9	95.12850	193395	< 410.		UG/KG	9/20/95		Indeno[1,2,3-cd]pyrene
PRS16-010J9	95.12850	78591	< 410.		UG/KG	9/20/95		Isophorone
PRS16-010J9	95.12850	534521	< 2000.		UG/KG	9/20/95		2-Methyl-4,6-dinitrophenol
PRS16-010J9	95.12850	91576	< 410.		UG/KG	9/20/95		2-Methylnaphthalene
PRS16-010J9	95.12850	95487	< 410.		UG/KG	9/20/95		2-Methylphenol
PRS16-010J9	95.12850	106445	< 410.		UG/KG	9/20/95		4-Methylphenol
PRS16-010J9	95.12850	91203	< 410.		UG/KG	9/20/95		Naphthalene
PRS16-010J9	95.12850	88744	< 820.		UG/KG	9/20/95		2-Nitroaniline
PRS16-010J9	95.12850	99092	< 820.		UG/KG	9/20/95		3-Nitroaniline
PRS16-010J9	95.12850	100016	< 820.		UG/KG	9/20/95		4-Nitroaniline
PRS16-010J9	95.12850	98953	< 410.		UG/KG	9/20/95		Nitrobenzene
PRS16-010J9	95.12850	88755	< 410.		UG/KG	9/20/95		2-Nitrophenol
PRS16-010J9	95.12850	100027	< 2000.		UG/KG	9/20/95		4-Nitrophenol
PRS16-010J9	95.12850	621647	< 410.		UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010J9	95.12850	62759	< 410.		UG/KG	9/20/95		N-Nitrosodimethylamine
PRS16-010J9	95.12850	86306	< 410.		UG/KG	9/20/95		N-Nitrosodiphenylamine

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J9	95.12850	87865	< 410.		UG/KG	9/20/95		Pentachlorophenol
PRS16-010J9	95.12850	85018	< 410.		UG/KG	9/20/95		Phenanthrene
PRS16-010J9	95.12850	108952	< 410.		UG/KG	9/20/95		Phenol
PRS16-010J9	95.12850	129000	480.	144.	UG/KG	9/20/95		Pyrene
PRS16-010J9	95.12850	120821	< 410.		UG/KG	9/20/95		1,2,4-Trichlorobenzene
PRS16-010J9	95.12850	95954	< 410.		UG/KG	9/20/95		2,4,5-Trichlorophenol
PRS16-010J9	95.12850	88062	< 410.		UG/KG	9/20/95		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 95.12850

none

********** CST ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 20-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082804 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12851 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 8/24/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B2	95.12851	83329	< 390.		UG/KG	9/20/95		Acenaphthene
PRS16-010B2	95.12851	208968	< 390.		UG/KG	9/20/95		Acenaphthylene
PRS16-010B2	95.12851	62533	< 390.		UG/KG	9/20/95		Aniline
PRS16-010B2	95.12851	120127	< 390.		UG/KG	9/20/95		Anthracene
PRS16-010B2	95.12851	103333	< 390.		UG/KG	9/20/95		Azobenzene
PRS16-010B2	95.12851	92875	< 1900.		UG/KG	9/20/95		m-Benzidine
PRS16-010B2	95.12851	56553	< 390.		UG/KG	9/20/95		Benzo[a]anthracene
PRS16-010B2	95.12851	50328	< 390.		UG/KG	9/20/95		Benzo[a]pyrene
PRS16-010B2	95.12851	205992	< 390.		UG/KG	9/20/95		Benzo[b]fluoranthene
PRS16-010B2	95.12851	191242	< 390.		UG/KG	9/20/95		Benzo[g,h,i]perylene
PRS16-010B2	95.12851	207089	< 390.		UG/KG	9/20/95		Benzo[k]fluoranthene
PRS16-010B2	95.12851	65850	< 1900.		UG/KG	9/20/95		Benzoic acid
PRS16-010B2	95.12851	100516	< 390.		UG/KG	9/20/95		Benzyl alcohol
PRS16-010B2	95.12851	111911	< 390.		UG/KG	9/20/95		Bis(2-chloroethoxy)methane
PRS16-010B2	95.12851	111444	< 390.		UG/KG	9/20/95		Bis(2-chloroethyl)ether
PRS16-010B2	95.12851	108601	< 390.		UG/KG	9/20/95		Bis(2-chloroisopropyl)ether
PRS16-010B2	95.12851	117817	< 390.		UG/KG	9/20/95		Bis(2-ethylhexyl)phthalate
PRS16-010B2	95.12851	101553	< 390.		UG/KG	9/20/95		4-Bromophenylphenyl ether
PRS16-010B2	95.12851	85687	< 390.		UG/KG	9/20/95		Butyl benzyl phthalate
PRS16-010B2	95.12851	59507	< 390.		UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010B2	95.12851	106478	< 390.		UG/KG	9/20/95		4-Chloroaniline
PRS16-010B2	95.12851	91587	< 390.		UG/KG	9/20/95		2-Chloronaphthalene
PRS16-010B2	95.12851	95578	< 390.		UG/KG	9/20/95		o-Chlorophenol
PRS16-010B2	95.12851	7005723	< 390.		UG/KG	9/20/95		4-Chlorophenylphenyl ether
PRS16-010B2	95.12851	218019	< 390.		UG/KG	9/20/95		Chrysene
PRS16-010B2	95.12851	84742	< 390.		UG/KG	9/20/95		Di-n-butyl phthalate

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B2	95.12851	117840	< 390.		UG/KG	9/20/95		Di-n-octyl phthalate
PRS16-010B2	95.12851	53703	< 390.		UG/KG	9/20/95		Dibenzo[a,h]anthracene
PRS16-010B2	95.12851	132649	< 1900.		UG/KG	9/20/95		Dibenzofuran
PRS16-010B2	95.12851	95501	< 390.		UG/KG	9/20/95		o-Dichlorobenzene (1,2)
PRS16-010B2	95.12851	541731	< 390.		UG/KG	9/20/95		m-Dichlorobenzene (1,3)
PRS16-010B2	95.12851	106467	< 390.		UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010B2	95.12851	91941	< 770.		UG/KG	9/20/95		3,3'-Dichlorobenzidine
PRS16-010B2	95.12851	120832	< 390.		UG/KG	9/20/95		2,4-Dichlorophenol
PRS16-010B2	95.12851	84662	< 390.		UG/KG	9/20/95		Diethyl phthalate
PRS16-010B2	95.12851	131113	< 390.		UG/KG	9/20/95		Dimethyl phthalate
PRS16-010B2	95.12851	105679	< 390.		UG/KG	9/20/95		2,4-Dimethylphenol
PRS16-010B2	95.12851	51285	< 390.		UG/KG	9/20/95		2,4-Dinitrophenol
PRS16-010B2	95.12851	121142	< 390.		UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010B2	95.12851	606202	< 390.		UG/KG	9/20/95		2,6-Dinitrotoluene
PRS16-010B2	95.12851	206440	< 390.		UG/KG	9/20/95		Fluoranthene
PRS16-010B2	95.12851	86737	< 390.		UG/KG	9/20/95		Fluorene
PRS16-010B2	95.12851	118741	< 390.		UG/KG	9/20/95		Hexachlorobenzene
PRS16-010B2	95.12851	87683	< 1900.		UG/KG	9/20/95		Hexachlorobutadiene
PRS16-010B2	95.12851	77474	< 390.		UG/KG	9/20/95		Hexachlorocyclopentadiene
PRS16-010B2	95.12851	67721	< 390.		UG/KG	9/20/95		Hexachloroethane
PRS16-010B2	95.12851	193395	< 390.		UG/KG	9/20/95		Indeno[1,2,3-cd]pyrene
PRS16-010B2	95.12851	78591	< 390.		UG/KG	9/20/95		Isophorone
PRS16-010B2	95.12851	534521	< 1900.		UG/KG	9/20/95		2-Methyl-4,6-dinitrophenol
PRS16-010B2	95.12851	91576	< 390.		UG/KG	9/20/95		2-Methylnaphthalene
PRS16-010B2	95.12851	95487	< 390.		UG/KG	9/20/95		2-Methylphenol
PRS16-010B2	95.12851	106445	< 390.		UG/KG	9/20/95		4-Methylphenol
PRS16-010B2	95.12851	91203	< 390.		UG/KG	9/20/95		Naphthalene
PRS16-010B2	95.12851	88744	< 770.		UG/KG	9/20/95		2-Nitroaniline
PRS16-010B2	95.12851	99092	< 770.		UG/KG	9/20/95		3-Nitroaniline
PRS16-010B2	95.12851	100016	< 770.		UG/KG	9/20/95		4-Nitroaniline
PRS16-010B2	95.12851	98953	< 390.		UG/KG	9/20/95		Nitrobenzene
PRS16-010B2	95.12851	88755	< 390.		UG/KG	9/20/95		2-Nitrophenol
PRS16-010B2	95.12851	100027	< 1900.		UG/KG	9/20/95		4-Nitrophenol
PRS16-010B2	95.12851	621647	< 390.		UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010B2	95.12851	62759	< 390.		UG/KG	9/20/95		N-Nitrosodimethylamine
PRS16-010B2	95.12851	86306	< 390.		UG/KG	9/20/95		N-Nitrosodiphenylamine

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B2	95.12851	87865	< 390.		UG/KG	9/20/95		Pentachlorophenol
PRS16-010B2	95.12851	85018	< 390.		UG/KG	9/20/95		Phenanthrene
PRS16-010B2	95.12851	108952	< 390.		UG/KG	9/20/95		Phenol
PRS16-010B2	95.12851	129000	< 390.		UG/KG	9/20/95		Pyrene
PRS16-010B2	95.12851	120821	< 390.		UG/KG	9/20/95		1,2,4-Trichlorobenzene
PRS16-010B2	95.12851	95954	< 390.		UG/KG	9/20/95		2,4,5-Trichlorophenol
PRS16-010B2	95.12851	88062	< 390.		UG/KG	9/20/95		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 95.12851

none

********** CST ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 20-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082804 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12852 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 8/24/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B8	95.12852	83329	< 430.		UG/KG	9/20/95		Acenaphthene
PRS16-010B8	95.12852	208968	< 430.		UG/KG	9/20/95		Acenaphthylene
PRS16-010B8	95.12852	62533	< 430.		UG/KG	9/20/95		Aniline
PRS16-010B8	95.12852	120127	< 430.		UG/KG	9/20/95		Anthracene
PRS16-010B8	95.12852	103333	< 430.		UG/KG	9/20/95		Azobenzene
PRS16-010B8	95.12852	92875	< 2200.		UG/KG	9/20/95		m-Benzidine
PRS16-010B8	95.12852	56553	< 430.		UG/KG	9/20/95		Benzo[a]anthracene
PRS16-010B8	95.12852	50328	< 430.		UG/KG	9/20/95		Benzo[a]pyrene
PRS16-010B8	95.12852	205992	< 430.		UG/KG	9/20/95		Benzo[b]fluoranthene
PRS16-010B8	95.12852	191242	< 430.		UG/KG	9/20/95		Benzo[g,h,i]perylene
PRS16-010B8	95.12852	207089	< 430.		UG/KG	9/20/95		Benzo[k]fluoranthene
PRS16-010B8	95.12852	65850	< 2200.		UG/KG	9/20/95		Benzoic acid
PRS16-010B8	95.12852	100516	< 430.		UG/KG	9/20/95		Benzyl alcohol
PRS16-010B8	95.12852	111911	< 430.		UG/KG	9/20/95		Bis(2-chloroethoxy)methane
PRS16-010B8	95.12852	111444	< 430.		UG/KG	9/20/95		Bis(2-chloroethyl)ether
PRS16-010B8	95.12852	108601	< 430.		UG/KG	9/20/95		Bis(2-chloroisopropyl)ether
PRS16-010B8	95.12852	117817	< 430.		UG/KG	9/20/95		Bis(2-ethylhexyl)phthalate
PRS16-010B8	95.12852	101553	< 430.		UG/KG	9/20/95		4-Bromophenylphenyl ether
PRS16-010B8	95.12852	85687	< 430.		UG/KG	9/20/95		Butyl benzyl phthalate
PRS16-010B8	95.12852	59507	< 430.		UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010B8	95.12852	106478	< 430.		UG/KG	9/20/95		4-Chloroaniline
PRS16-010B8	95.12852	91587	< 430.		UG/KG	9/20/95		2-Chloronaphthalene
PRS16-010B8	95.12852	95578	< 430.		UG/KG	9/20/95		o-Chlorophenol
PRS16-010B8	95.12852	7005723	< 430.		UG/KG	9/20/95		4-Chlorophenylphenyl ether
PRS16-010B8	95.12852	218019	< 430.		UG/KG	9/20/95		Chrysene
PRS16-010B8	95.12852	84742	< 430.		UG/KG	9/20/95		Di-n-butyl phthalate

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B8	95.12852	117840	< 430.		UG/KG	9/20/95		Di-n-octyl phthalate
PRS16-010B8	95.12852	53703	< 430.		UG/KG	9/20/95		Dibenzo[a,h]anthracene
PRS16-010B8	95.12852	132649	< 2200.		UG/KG	9/20/95		Dibenzofuran
PRS16-010B8	95.12852	95501	< 430.		UG/KG	9/20/95		o-Dichlorobenzene (1,2)
PRS16-010B8	95.12852	541731	< 430.		UG/KG	9/20/95		m-Dichlorobenzene (1,3)
PRS16-010B8	95.12852	106467	< 430.		UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010B8	95.12852	91941	< 860.		UG/KG	9/20/95		3,3'-Dichlorobenzidine
PRS16-010B8	95.12852	120832	< 430.		UG/KG	9/20/95		2,4-Dichlorophenol
PRS16-010B8	95.12852	84662	< 430.		UG/KG	9/20/95		Diethyl phthalate
PRS16-010B8	95.12852	131113	< 430.		UG/KG	9/20/95		Dimethyl phthalate
PRS16-010B8	95.12852	105679	< 430.		UG/KG	9/20/95		2,4-Dimethylphenol
PRS16-010B8	95.12852	51285	< 430.		UG/KG	9/20/95		2,4-Dinitrophenol
PRS16-010B8	95.12852	121142	< 430.		UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010B8	95.12852	606202	< 430.		UG/KG	9/20/95		2,6-Dinitrotoluene
PRS16-010B8	95.12852	206440	< 430.		UG/KG	9/20/95		Fluoranthene
PRS16-010B8	95.12852	86737	< 430.		UG/KG	9/20/95		Fluorene
PRS16-010B8	95.12852	118741	< 430.		UG/KG	9/20/95		Hexachlorobenzene
PRS16-010B8	95.12852	87683	< 2200.		UG/KG	9/20/95		Hexachlorobutadiene
PRS16-010B8	95.12852	77474	< 430.		UG/KG	9/20/95		Hexachlorocyclopentadiene
PRS16-010B8	95.12852	67721	< 430.		UG/KG	9/20/95		Hexachloroethane
PRS16-010B8	95.12852	193395	< 430.		UG/KG	9/20/95		Indeno[1,2,3-cd]pyrene
PRS16-010B8	95.12852	78591	< 430.		UG/KG	9/20/95		Isophorone
PRS16-010B8	95.12852	534521	< 2200.		UG/KG	9/20/95		2-Methyl-4,6-dinitrophenol
PRS16-010B8	95.12852	91576	< 430.		UG/KG	9/20/95		2-Methylnaphthalene
PRS16-010B8	95.12852	95487	< 430.		UG/KG	9/20/95		2-Methylphenol
PRS16-010B8	95.12852	106445	< 430.		UG/KG	9/20/95		4-Methylphenol
PRS16-010B8	95.12852	91203	< 430.		UG/KG	9/20/95		Naphthalene
PRS16-010B8	95.12852	88744	< 860.		UG/KG	9/20/95		2-Nitroaniline
PRS16-010B8	95.12852	99092	< 860.		UG/KG	9/20/95		3-Nitroaniline
PRS16-010B8	95.12852	100016	< 860.		UG/KG	9/20/95		4-Nitroaniline
PRS16-010B8	95.12852	98953	< 430.		UG/KG	9/20/95		Nitrobenzene
PRS16-010B8	95.12852	88755	< 430.		UG/KG	9/20/95		2-Nitrophenol
PRS16-010B8	95.12852	100027	< 2200.		UG/KG	9/20/95		4-Nitrophenol
PRS16-010B8	95.12852	621647	< 430.		UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010B8	95.12852	62759	< 430.		UG/KG	9/20/95		N-Nitrosodimethylamine
PRS16-010B8	95.12852	86306	< 430.		UG/KG	9/20/95		N-Nitrosodiphenylamine

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B8	95.12852	87865	< 430.		UG/KG	9/20/95		Pentachlorophenol
PRS16-010B8	95.12852	85018	< 430.		UG/KG	9/20/95		Phenanthrene
PRS16-010B8	95.12852	108952	< 430.		UG/KG	9/20/95		Phenol
PRS16-010B8	95.12852	129000	< 430.		UG/KG	9/20/95		Pyrene
PRS16-010B8	95.12852	120821	< 430.		UG/KG	9/20/95		1,2,4-Trichlorobenzene
PRS16-010B8	95.12852	95954	< 430.		UG/KG	9/20/95		2,4,5-Trichlorophenol
PRS16-010B8	95.12852	88062	< 430.		UG/KG	9/20/95		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 95.12852

none

********** CST ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 20-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082804 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12853 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 8/24/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B15	95.12853	83329	< 420.		UG/KG	9/20/95		Acenaphthene
PRS16-010B15	95.12853	208968	< 420.		UG/KG	9/20/95		Acenaphthylene
PRS16-010B15	95.12853	62533	< 420.		UG/KG	9/20/95		Aniline
PRS16-010B15	95.12853	120127	< 420.		UG/KG	9/20/95		Anthracene
PRS16-010B15	95.12853	103333	< 420.		UG/KG	9/20/95		Azobenzene
PRS16-010B15	95.12853	92875	< 2100.		UG/KG	9/20/95		m-Benzidine
PRS16-010B15	95.12853	56553	< 420.		UG/KG	9/20/95		Benzo[a]anthracene
PRS16-010B15	95.12853	50328	< 420.		UG/KG	9/20/95		Benzo[a]pyrene
PRS16-010B15	95.12853	205992	< 420.		UG/KG	9/20/95		Benzo[b]fluoranthene
PRS16-010B15	95.12853	191242	< 420.		UG/KG	9/20/95		Benzo[g,h,i]perylene
PRS16-010B15	95.12853	207089	< 420.		UG/KG	9/20/95		Benzo[k]fluoranthene
PRS16-010B15	95.12853	65850	< 2100.		UG/KG	9/20/95		Benzoic acid
PRS16-010B15	95.12853	100516	< 420.		UG/KG	9/20/95		Benzyl alcohol
PRS16-010B15	95.12853	111911	< 420.		UG/KG	9/20/95		Bis(2-chloroethoxy)methane
PRS16-010B15	95.12853	111444	< 420.		UG/KG	9/20/95		Bis(2-chloroethyl)ether
PRS16-010B15	95.12853	108601	< 420.		UG/KG	9/20/95		Bis(2-chloroisopropyl)ether
PRS16-010B15	95.12853	117817	< 420.		UG/KG	9/20/95		Bis(2-ethylhexyl)phthalate
PRS16-010B15	95.12853	101553	< 420.		UG/KG	9/20/95		4-Bromophenylphenyl ether
PRS16-010B15	95.12853	85687	< 420.		UG/KG	9/20/95		Butyl benzyl phthalate
PRS16-010B15	95.12853	59507	< 420.		UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010B15	95.12853	106478	< 420.		UG/KG	9/20/95		4-Chloroaniline
PRS16-010B15	95.12853	91587	< 420.		UG/KG	9/20/95		2-Chloronaphthalene
PRS16-010B15	95.12853	95578	< 420.		UG/KG	9/20/95		o-Chlorophenol
PRS16-010B15	95.12853	7005723	< 420.		UG/KG	9/20/95		4-Chlorophenylphenyl ether
PRS16-010B15	95.12853	218019	< 420.		UG/KG	9/20/95		Chrysene
PRS16-010B15	95.12853	84742	< 420.		UG/KG	9/20/95		Di-n-butyl phthalate

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B15	95.12853	117840	< 420.		UG/KG	9/20/95		Di-n-octyl phthalate
PRS16-010B15	95.12853	53703	< 420.		UG/KG	9/20/95		Dibenzo[a,h]anthracene
PRS16-010B15	95.12853	132649	< 2100.		UG/KG	9/20/95		Dibenzofuran
PRS16-010B15	95.12853	95501	< 420.		UG/KG	9/20/95		o-Dichlorobenzene (1,2)
PRS16-010B15	95.12853	541731	< 420.		UG/KG	9/20/95		m-Dichlorobenzene (1,3)
PRS16-010B15	95.12853	106467	< 420.		UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010B15	95.12853	91941	< 830.		UG/KG	9/20/95		3,3'-Dichlorobenzidine
PRS16-010B15	95.12853	120832	< 420.		UG/KG	9/20/95		2,4-Dichlorophenol
PRS16-010B15	95.12853	84662	< 420.		UG/KG	9/20/95		Diethyl phthalate
PRS16-010B15	95.12853	131113	< 420.		UG/KG	9/20/95		Dimethyl phthalate
PRS16-010B15	95.12853	105679	< 420.		UG/KG	9/20/95		2,4-Dimethylphenol
PRS16-010B15	95.12853	51285	< 420.		UG/KG	9/20/95		2,4-Dinitrophenol
PRS16-010B15	95.12853	121142	< 420.		UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010B15	95.12853	606202	< 420.		UG/KG	9/20/95		2,6-Dinitrotoluene
PRS16-010B15	95.12853	206440	< 420.		UG/KG	9/20/95		Fluoranthene
PRS16-010B15	95.12853	86737	< 420.		UG/KG	9/20/95		Fluorene
PRS16-010B15	95.12853	118741	< 420.		UG/KG	9/20/95		Hexachlorobenzene
PRS16-010B15	95.12853	87683	< 2100.		UG/KG	9/20/95		Hexachlorobutadiene
PRS16-010B15	95.12853	77474	< 420.		UG/KG	9/20/95		Hexachlorocyclopentadiene
PRS16-010B15	95.12853	67721	< 420.		UG/KG	9/20/95		Hexachloroethane
PRS16-010B15	95.12853	193395	< 420.		UG/KG	9/20/95		Indeno[1,2,3-cd]pyrene
PRS16-010B15	95.12853	78591	< 420.		UG/KG	9/20/95		Isophorone
PRS16-010B15	95.12853	534521	< 2100.		UG/KG	9/20/95		2-Methyl-4,6-dinitrophenol
PRS16-010B15	95.12853	91576	< 420.		UG/KG	9/20/95		2-Methylnaphthalene
PRS16-010B15	95.12853	95487	< 420.		UG/KG	9/20/95		2-Methylphenol
PRS16-010B15	95.12853	106445	< 420.		UG/KG	9/20/95		4-Methylphenol
PRS16-010B15	95.12853	91203	< 420.		UG/KG	9/20/95		Naphthalene
PRS16-010B15	95.12853	88744	< 830.		UG/KG	9/20/95		2-Nitroaniline
PRS16-010B15	95.12853	99092	< 830.		UG/KG	9/20/95		3-Nitroaniline
PRS16-010B15	95.12853	100016	< 830.		UG/KG	9/20/95		4-Nitroaniline
PRS16-010B15	95.12853	98953	< 420.		UG/KG	9/20/95		Nitrobenzene
PRS16-010B15	95.12853	88755	< 420.		UG/KG	9/20/95		2-Nitrophenol
PRS16-010B15	95.12853	100027	< 2100.		UG/KG	9/20/95		4-Nitrophenol
PRS16-010B15	95.12853	621647	< 420.		UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010B15	95.12853	62759	< 420.		UG/KG	9/20/95		N-Nitrosodimethylamine
PRS16-010B15	95.12853	86306	< 420.		UG/KG	9/20/95		N-Nitrosodiphenylamine

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B15	95.12853	87865	< 420.		UG/KG	9/20/95		Pentachlorophenol
PRS16-010B15	95.12853	85018	< 420.		UG/KG	9/20/95		Phenanthrene
PRS16-010B15	95.12853	108952	< 420.		UG/KG	9/20/95		Phenol
PRS16-010B15	95.12853	129000	< 420.		UG/KG	9/20/95		Pyrene
PRS16-010B15	95.12853	120821	< 420.		UG/KG	9/20/95		1,2,4-Trichlorobenzene
PRS16-010B15	95.12853	95954	< 420.		UG/KG	9/20/95		2,4,5-Trichlorophenol
PRS16-010B15	95.12853	88062	< 420.		UG/KG	9/20/95		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 95.12853

none

********** CST ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 20-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082804 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12854 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 8/24/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J10	95.12854	83329	< 410.		UG/KG	9/20/95		Acenaphthene
PRS16-010J10	95.12854	208968	< 410.		UG/KG	9/20/95		Acenaphthylene
PRS16-010J10	95.12854	62533	< 410.		UG/KG	9/20/95		Aniline
PRS16-010J10	95.12854	120127	< 410.		UG/KG	9/20/95		Anthracene
PRS16-010J10	95.12854	103333	< 410.		UG/KG	9/20/95		Azobenzene
PRS16-010J10	95.12854	92875	< 2000.		UG/KG	9/20/95		m-Benzidine
PRS16-010J10	95.12854	56553	< 410.		UG/KG	9/20/95		Benzo[a]anthracene
PRS16-010J10	95.12854	50328	< 410.		UG/KG	9/20/95		Benzo[a]pyrene
PRS16-010J10	95.12854	205992	< 410.		UG/KG	9/20/95		Benzo[b]fluoranthene
PRS16-010J10	95.12854	191242	< 410.		UG/KG	9/20/95		Benzo[g,h,i]perylene
PRS16-010J10	95.12854	207089	< 410.		UG/KG	9/20/95		Benzo[k]fluoranthene
PRS16-010J10	95.12854	65850	< 2000.		UG/KG	9/20/95		Benzoic acid
PRS16-010J10	95.12854	100516	< 410.		UG/KG	9/20/95		Benzyl alcohol
PRS16-010J10	95.12854	111911	< 410.		UG/KG	9/20/95		Bis(2-chloroethoxy)methane
PRS16-010J10	95.12854	111444	< 410.		UG/KG	9/20/95		Bis(2-chloroethyl)ether
PRS16-010J10	95.12854	108601	< 410.		UG/KG	9/20/95		Bis(2-chloroisopropyl)ether
PRS16-010J10	95.12854	117817	< 410.		UG/KG	9/20/95		Bis(2-ethylhexyl)phthalate
PRS16-010J10	95.12854	101553	< 410.		UG/KG	9/20/95		4-Bromophenylphenyl ether
PRS16-010J10	95.12854	85687	< 410.		UG/KG	9/20/95		Butyl benzyl phthalate
PRS16-010J10	95.12854	59507	< 410.		UG/KG	9/20/95		4-Chloro-3-methylphenol
PRS16-010J10	95.12854	106478	< 410.		UG/KG	9/20/95		4-Chloroaniline
PRS16-010J10	95.12854	91587	< 410.		UG/KG	9/20/95		2-Chloronaphthalene
PRS16-010J10	95.12854	95578	< 410.		UG/KG	9/20/95		o-Chlorophenol
PRS16-010J10	95.12854	7005723	< 410.		UG/KG	9/20/95		4-Chlorophenylphenyl ether
PRS16-010J10	95.12854	218019	< 410.		UG/KG	9/20/95		Chrysene
PRS16-010J10	95.12854	84742	< 410.		UG/KG	9/20/95		Di-n-butyl phthalate

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J10	95.12854	117840	< 410.		UG/KG	9/20/95		Di-n-octyl phthalate
PRS16-010J10	95.12854	53703	< 410.		UG/KG	9/20/95		Dibenzo[a,h]anthracene
PRS16-010J10	95.12854	132649	< 2000.		UG/KG	9/20/95		Dibenzofuran
PRS16-010J10	95.12854	95501	< 410.		UG/KG	9/20/95		o-Dichlorobenzene (1,2)
PRS16-010J10	95.12854	541731	< 410.		UG/KG	9/20/95		m-Dichlorobenzene (1,3)
PRS16-010J10	95.12854	106467	< 410.		UG/KG	9/20/95		p-Dichlorobenzene (1,4)
PRS16-010J10	95.12854	91941	< 820.		UG/KG	9/20/95		3,3'-Dichlorobenzidine
PRS16-010J10	95.12854	120832	< 410.		UG/KG	9/20/95		2,4-Dichlorophenol
PRS16-010J10	95.12854	84662	< 410.		UG/KG	9/20/95		Diethyl phthalate
PRS16-010J10	95.12854	131113	< 410.		UG/KG	9/20/95		Dimethyl phthalate
PRS16-010J10	95.12854	105679	< 410.		UG/KG	9/20/95		2,4-Dimethylphenol
PRS16-010J10	95.12854	51285	< 410.		UG/KG	9/20/95		2,4-Dinitrophenol
PRS16-010J10	95.12854	121142	< 410.		UG/KG	9/20/95		2,4-Dinitrotoluene
PRS16-010J10	95.12854	606202	< 410.		UG/KG	9/20/95		2,6-Dinitrotoluene
PRS16-010J10	95.12854	206440	< 410.		UG/KG	9/20/95		Fluoranthene
PRS16-010J10	95.12854	86737	< 410.		UG/KG	9/20/95		Fluorene
PRS16-010J10	95.12854	118741	< 410.		UG/KG	9/20/95		Hexachlorobenzene
PRS16-010J10	95.12854	87683	< 2000.		UG/KG	9/20/95		Hexachlorobutadiene
PRS16-010J10	95.12854	77474	< 410.		UG/KG	9/20/95		Hexachlorocyclopentadiene
PRS16-010J10	95.12854	67721	< 410.		UG/KG	9/20/95		Hexachloroethane
PRS16-010J10	95.12854	193395	< 410.		UG/KG	9/20/95		Indeno[1,2,3-cd]pyrene
PRS16-010J10	95.12854	78591	< 410.		UG/KG	9/20/95		Isophorone
PRS16-010J10	95.12854	534521	< 2000.		UG/KG	9/20/95		2-Methyl-4,6-dinitrophenol
PRS16-010J10	95.12854	91576	< 410.		UG/KG	9/20/95		2-Methylnaphthalene
PRS16-010J10	95.12854	95487	< 410.		UG/KG	9/20/95		2-Methylphenol
PRS16-010J10	95.12854	106445	< 410.		UG/KG	9/20/95		4-Methylphenol
PRS16-010J10	95.12854	91203	< 410.		UG/KG	9/20/95		Naphthalene
PRS16-010J10	95.12854	88744	< 820.		UG/KG	9/20/95		2-Nitroaniline
PRS16-010J10	95.12854	99092	< 820.		UG/KG	9/20/95		3-Nitroaniline
PRS16-010J10	95.12854	100016	< 820.		UG/KG	9/20/95		4-Nitroaniline
PRS16-010J10	95.12854	98953	< 410.		UG/KG	9/20/95		Nitrobenzene
PRS16-010J10	95.12854	88755	< 410.		UG/KG	9/20/95		2-Nitrophenol
PRS16-010J10	95.12854	100027	< 2000.		UG/KG	9/20/95		4-Nitrophenol
PRS16-010J10	95.12854	621647	< 410.		UG/KG	9/20/95		N-Nitrosodi-n-propylamine
PRS16-010J10	95.12854	62759	< 410.		UG/KG	9/20/95		N-Nitrosodimethylamine
PRS16-010J10	95.12854	86306	< 410.		UG/KG	9/20/95		N-Nitrosodiphenylamine

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J10	95.12854	87865	< 410.		UG/KG	9/20/95		Pentachlorophenol
PRS16-010J10	95.12854	85018	< 410.		UG/KG	9/20/95		Phenanthrene
PRS16-010J10	95.12854	108952	< 410.		UG/KG	9/20/95		Phenol
PRS16-010J10	95.12854	129000	< 410.		UG/KG	9/20/95		Pyrene
PRS16-010J10	95.12854	120821	< 410.		UG/KG	9/20/95		1,2,4-Trichlorobenzene
PRS16-010J10	95.12854	95954	< 410.		UG/KG	9/20/95		2,4,5-Trichlorophenol
PRS16-010J10	95.12854	88062	< 410.		UG/KG	9/20/95		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 95.12854

none

********** EM-9 QUALITY ASSURANCE REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 20-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082804 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QA SAMPLES RUN WITH THIS BATCH

There were no open (non-blind) Quality Control materials run with the samples reported above for one of the following reasons:

____ Only qualitative data requested

____ Only Blind QC samples run with this batch.

____ No QC samples run with this sample batch.

____ No QC samples for this constituent and matrix type available within CST

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLANK QC SAMPLES RUN WITH THIS BATCH

Blank Results, Sample # 95.12869 Date Collected: 8/01/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 8/23/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.12869	83329	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Acenaphthene
00.20227	95.12869	208968	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Acenaphthylene
00.20227	95.12869	62533	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Aniline
00.20227	95.12869	120127	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Anthracene
00.20227	95.12869	103333	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Azobenzene
00.20227	95.12869	92875	< 1700.		UG/KG	0.0		9/20/95	UNDER CONTROL	m-Benzidine
00.20227	95.12869	56553	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Benzo[a]anthracene
00.20227	95.12869	50328	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Benzo[a]pyrene
00.20227	95.12869	205992	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Benzo[b]fluoranthene
00.20227	95.12869	191242	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Benzo[g,h,i]perylene
00.20227	95.12869	207089	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Benzo[k]fluoranthene
00.20227	95.12869	65850	< 1700.		UG/KG	0.0		9/20/95	UNDER CONTROL	Benzoic acid
00.20227	95.12869	100516	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Benzyl alcohol
00.20227	95.12869	111911	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Bis(2-chloroethoxy)methane
00.20227	95.12869	111444	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Bis(2-chloroethyl)ether
00.20227	95.12869	108601	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Bis(2-chloroisopropyl)ether
00.20227	95.12869	117817	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Bis(2-ethylhexyl)phthalate
00.20227	95.12869	101553	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	4-Bromophenylphenyl ether
00.20227	95.12869	85687	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Butyl benzyl phthalate
00.20227	95.12869	59507	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	4-Chloro-3-methylphenol
00.20227	95.12869	106478	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	4-Chloroaniline

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.12869	91587	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2-Chloronaphthalene
00.20227	95.12869	95578	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	o-Chlorophenol
00.20227	95.12869	7005723	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	4-Chlorophenylphenyl ether
00.20227	95.12869	218019	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Chrysene
00.20227	95.12869	84742	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Di-n-butyl phthalate
00.20227	95.12869	117840	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Di-n-octyl phthalate
00.20227	95.12869	53703	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Dibenzo[a,h]anthracene
00.20227	95.12869	132649	< 1700.		UG/KG	0.0		9/20/95	UNDER CONTROL	Dibenzofuran
00.20227	95.12869	95501	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.20227	95.12869	541731	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.20227	95.12869	106467	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.20227	95.12869	91941	< 670.		UG/KG	0.0		9/20/95	UNDER CONTROL	3,3'-Dichlorobenzidine
00.20227	95.12869	120832	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2,4-Dichlorophenol
00.20227	95.12869	84662	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Diethyl phthalate
00.20227	95.12869	131113	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Dimethyl phthalate
00.20227	95.12869	105679	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2,4-Dimethylphenol
00.20227	95.12869	51285	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2,4-Dinitrophenol
00.20227	95.12869	121142	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2,4-Dinitrotoluene
00.20227	95.12869	606202	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2,6-Dinitrotoluene
00.20227	95.12869	206440	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Fluoranthene
00.20227	95.12869	86737	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Fluorene
00.20227	95.12869	118741	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Hexachlorobenzene
00.20227	95.12869	87683	< 1700.		UG/KG	0.0		9/20/95	UNDER CONTROL	Hexachlorobutadiene
00.20227	95.12869	77474	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Hexachlorocyclopentadiene
00.20227	95.12869	67721	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Hexachloroethane
00.20227	95.12869	193395	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Indeno[1,2,3-cd]pyrene
00.20227	95.12869	78591	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Isophorone
00.20227	95.12869	534521	< 1700.		UG/KG	0.0		9/20/95	UNDER CONTROL	2-Methyl-4,6-dinitrophenol
00.20227	95.12869	91576	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2-Methylnaphthalene
00.20227	95.12869	95487	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2-Methylphenol
00.20227	95.12869	106445	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	4-Methylphenol
00.20227	95.12869	91203	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Naphthalene
00.20227	95.12869	88744	< 670.		UG/KG	0.0		9/20/95	UNDER CONTROL	2-Nitroaniline
00.20227	95.12869	99092	< 670.		UG/KG	0.0		9/20/95	UNDER CONTROL	3-Nitroaniline
00.20227	95.12869	100016	< 670.		UG/KG	0.0		9/20/95	UNDER CONTROL	4-Nitroaniline
00.20227	95.12869	98953	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Nitrobenzene

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.12869	88755	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2-Nitrophenol
00.20227	95.12869	100027	< 1700.		UG/KG	0.0		9/20/95	UNDER CONTROL	4-Nitrophenol
00.20227	95.12869	621647	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	N-Nitrosodi-n-propylamine
00.20227	95.12869	62759	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	N-Nitrosodimethylamine
00.20227	95.12869	86306	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	N-Nitrosodiphenylamine
00.20227	95.12869	87865	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Pentachlorophenol
00.20227	95.12869	85018	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Phenanthrene
00.20227	95.12869	108952	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Phenol
00.20227	95.12869	129000	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Pyrene
00.20227	95.12869	120821	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	1,2,4-Trichlorobenzene
00.20227	95.12869	95954	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2,4,5-Trichlorophenol
00.20227	95.12869	88062	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2,4,6-Trichlorophenol

Blank Results, Sample # 95.12870 Date Collected: 8/01/95 Date Received: 8/01/95 Date Extracted: 9/11/95 Date Analyzed: 9/12/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.12870	83329	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Acenaphthene
00.20227	95.12870	208968	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Acenaphthylene
00.20227	95.12870	62533	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Aniline
00.20227	95.12870	120127	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Anthracene
00.20227	95.12870	103333	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Azobenzene
00.20227	95.12870	92875	< 1700.		UG/KG	0.0		9/20/95	UNDER CONTROL	m-Benzidine
00.20227	95.12870	56553	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Benzo[a]anthracene
00.20227	95.12870	50328	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Benzo[a]pyrene
00.20227	95.12870	205992	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Benzo[b]fluoranthene

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.12870	191242	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Benzo[g,h,i]perylene
00.20227	95.12870	207089	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Benzo[k]fluoranthene
00.20227	95.12870	65850	< 1700.		UG/KG	0.0		9/20/95	UNDER CONTROL	Benzoic acid
00.20227	95.12870	100516	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Benzyl alcohol
00.20227	95.12870	111911	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Bis(2-chloroethoxy)methane
00.20227	95.12870	111444	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Bis(2-chloroethyl)ether
00.20227	95.12870	108601	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Bis(2-chloroisopropyl)ether
00.20227	95.12870	117817	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Bis(2-ethylhexyl)phthalate
00.20227	95.12870	101553	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	4-Bromophenylphenyl ether
00.20227	95.12870	85687	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Butyl benzyl phthalate
00.20227	95.12870	59507	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	4-Chloro-3-methylphenol
00.20227	95.12870	106478	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	4-Chloroaniline
00.20227	95.12870	91587	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2-Chloronaphthalene
00.20227	95.12870	95578	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	o-Chlorophenol
00.20227	95.12870	7005723	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	4-Chlorophenylphenyl ether
00.20227	95.12870	218019	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Chrysene
00.20227	95.12870	84742	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Di-n-butyl phthalate
00.20227	95.12870	117840	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Di-n-octyl phthalate
00.20227	95.12870	53703	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Dibenzo[a,h]anthracene
00.20227	95.12870	132649	< 1700.		UG/KG	0.0		9/20/95	UNDER CONTROL	Dibenzofuran
00.20227	95.12870	95501	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.20227	95.12870	541731	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.20227	95.12870	106467	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.20227	95.12870	91941	< 670.		UG/KG	0.0		9/20/95	UNDER CONTROL	3,3'-Dichlorobenzidine
00.20227	95.12870	120832	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2,4-Dichlorophenol
00.20227	95.12870	84662	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Diethyl phthalate
00.20227	95.12870	131113	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Dimethyl phthalate
00.20227	95.12870	105679	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2,4-Dimethylphenol
00.20227	95.12870	51285	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2,4-Dinitrophenol
00.20227	95.12870	121142	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2,4-Dinitrotoluene
00.20227	95.12870	606202	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2,6-Dinitrotoluene
00.20227	95.12870	206440	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Fluoranthene
00.20227	95.12870	86737	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Fluorene
00.20227	95.12870	118741	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Hexachlorobenzene
00.20227	95.12870	87683	< 1700.		UG/KG	0.0		9/20/95	UNDER CONTROL	Hexachlorobutadiene
00.20227	95.12870	77474	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Hexachlorocyclopentadiene

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.12870	67721	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Hexachloroethane
00.20227	95.12870	193395	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Indeno[1,2,3-cd]pyrene
00.20227	95.12870	78591	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Isophorone
00.20227	95.12870	534521	< 1700.		UG/KG	0.0		9/20/95	UNDER CONTROL	2-Methyl-4,6-dinitrophenol
00.20227	95.12870	91576	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2-Methylnaphthalene
00.20227	95.12870	95487	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2-Methylphenol
00.20227	95.12870	106445	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	4-Methylphenol
00.20227	95.12870	91203	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Naphthalene
00.20227	95.12870	88744	< 670.		UG/KG	0.0		9/20/95	UNDER CONTROL	2-Nitroaniline
00.20227	95.12870	99092	< 670.		UG/KG	0.0		9/20/95	UNDER CONTROL	3-Nitroaniline
00.20227	95.12870	100016	< 670.		UG/KG	0.0		9/20/95	UNDER CONTROL	4-Nitroaniline
00.20227	95.12870	98953	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Nitrobenzene
00.20227	95.12870	88755	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2-Nitrophenol
00.20227	95.12870	100027	< 1700.		UG/KG	0.0		9/20/95	UNDER CONTROL	4-Nitrophenol
00.20227	95.12870	621647	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	N-Nitrosodi-n-propylamine
00.20227	95.12870	62759	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	N-Nitrosodimethylamine
00.20227	95.12870	86306	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	N-Nitrosodiphenylamine
00.20227	95.12870	87865	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Pentachlorophenol
00.20227	95.12870	85018	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Phenanthrene
00.20227	95.12870	108952	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Phenol
00.20227	95.12870	129000	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	Pyrene
00.20227	95.12870	120821	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	1,2,4-Trichlorobenzene
00.20227	95.12870	95954	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2,4,5-Trichlorophenol
00.20227	95.12870	88062	< 330.		UG/KG	0.0		9/20/95	UNDER CONTROL	2,4,6-Trichlorophenol

Blank Spike Results: none

Blank Spike Duplicate Results: none

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLIND QA SAMPLES RUN WITH THIS BATCH

Blind QC Results, Sample # 95.12883 Date Collected: 8/01/95 Date Received: 8/01/95 Date Extracted: 8/07/95 Date Analyzed: 8/23/95

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
95.12883	83329	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Acenaphthene
95.12883	208968	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Acenaphthylene
95.12883	62533	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Aniline
95.12883	120127	< 310.		UG/KG	7250.	725.	9/20/95	OUT OF CONTROL	Anthracene
95.12883	103333	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Azobenzene
95.12883	92875	< 1500.		UG/KG	0.0		9/20/95	UNDER CONTROL	m-Benzidine
95.12883	56553	1500.	450.	UG/KG	0.0		9/20/95	OUT OF CONTROL	Benzo[a]anthracene
95.12883	50328	840.	252.	UG/KG	2920.	292.	9/20/95	OUT OF CONTROL	Benzo[a]pyrene
95.12883	205992	2700.	810.	UG/KG	0.0		9/20/95	OUT OF CONTROL	Benzo[b]fluoranthene
95.12883	191242	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Benzo[g,h,i]perylene
95.12883	207089	< 310.		UG/KG	6470.	647.	9/20/95	OUT OF CONTROL	Benzo[k]fluoranthene
95.12883	65850	< 1500.		UG/KG	0.0		9/20/95	UNDER CONTROL	Benzoic acid
95.12883	100516	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Benzyl alcohol
95.12883	111911	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Bis(2-chloroethoxy)methane
95.12883	111444	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Bis(2-chloroethyl)ether
95.12883	108601	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Bis(2-chloroisopropyl)ether
95.12883	117817	4800.	1440.	UG/KG	6870.	687.	9/20/95	UNDER CONTROL	Bis(2-ethylhexyl)phthalate
95.12883	101553	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	4-Bromophenylphenyl ether
95.12883	85687	2500.	750.	UG/KG	3880.	388.	9/20/95	UNDER CONTROL	Butyl benzyl phthalate
95.12883	59507	2600.	780.	UG/KG	5140.	514.	9/20/95	WARNING 2-3 SIG	4-Chloro-3-methylphenol
95.12883	106478	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	4-Chloroaniline
95.12883	91587	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	2-Chloronaphthalene
95.12883	95578	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	o-Chlorophenol
95.12883	7005723	2900.	870.	UG/KG	4840.	484.	9/20/95	UNDER CONTROL	4-Chlorophenylphenyl ether
95.12883	218019	< 310.		UG/KG	2670.	267.	9/20/95	OUT OF CONTROL	Chrysene
95.12883	84742	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Di-n-butyl phtha'

95.12883	117840	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Di-n-octyl phthalate
95.12883	53703	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Dibenzo[a,h]anthracene
95.12883	132649	2200.	660.	UG/KG	3780.	378.	9/20/95	WARNING 2-3 SIG	Dibenzofuran
95.12883	95501	1500.	450.	UG/KG	8760.	876.	9/20/95	OUT OF CONTROL	o-Dichlorobenzene (1,2)
95.12883	541731	570.	171.	UG/KG	0.0		9/20/95	OUT OF CONTROL	m-Dichlorobenzene (1,3)
95.12883	106467	< 310.		UG/KG	5130.	513.	9/20/95	OUT OF CONTROL	p-Dichlorobenzene (1,4)
95.12883	91941	< 610.		UG/KG	0.0		9/20/95	UNDER CONTROL	3,3'-Dichlorobenzidine
95.12883	120832	4100.	1230.	UG/KG	9050.	905.	9/20/95	OUT OF CONTROL	2,4-Dichlorophenol
95.12883	84662	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Diethyl phthalate
95.12883	131113	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Dimethyl phthalate
95.12883	105679	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	2,4-Dimethylphenol
95.12883	51285	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	2,4-Dinitrophenol
95.12883	121142	3900.	1170.	UG/KG	6930.	693.	9/20/95	WARNING 2-3 SIG	2,4-Dinitrotoluene
95.12883	606202	2900.	870.	UG/KG	5220.	522.	9/20/95	WARNING 2-3 SIG	2,6-Dinitrotoluene
95.12883	206440	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Fluoranthene

95.12883	86737	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Fluorene
95.12883	118741	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Hexachlorobenzene
95.12883	87683	< 1500.		UG/KG	0.0		9/20/95	UNDER CONTROL	Hexachlorobutadiene
95.12883	77474	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Hexachlorocyclopentadiene
95.12883	67721	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Hexachloroethane
95.12883	193395	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Indeno[1,2,3-cd]pyrene
95.12883	78591	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Isophorone
95.12883	534521	< 1500.		UG/KG	0.0		9/20/95	UNDER CONTROL	2-Methyl-4,6-dinitrophenol
95.12883	91576	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	2-Methylnaphthalene
95.12883	95487	3900.	1170.	UG/KG	12200.	1220.	9/20/95	OUT OF CONTROL	2-Methylphenol
95.12883	106445	2700.	810.	UG/KG	8700.	870.	9/20/95	OUT OF CONTROL	4-Methylphenol
95.12883	91203	1500.	450.	UG/KG	3530.	353.	9/20/95	OUT OF CONTROL	Naphthalene
95.12883	88744	< 610.		UG/KG	0.0		9/20/95	UNDER CONTROL	2-Nitroaniline
95.12883	99092	< 610.		UG/KG	0.0		9/20/95	UNDER CONTROL	3-Nitroaniline
95.12883	100016	< 610.		UG/KG	0.0		9/20/95	UNDER CONTROL	4-Nitroaniline
95.12883	98953	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Nitrobenzene
95.12883	88755	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	2-Nitrophenol
95.12883	100027	< 1500.		UG/KG	0.0		9/20/95	UNDER CONTROL	4-Nitrophenol
95.12883	621647	2700.	810.	UG/KG	5400.	540.	9/20/95	WARNING 2-3 SIG	N-Nitrosodi-n-propylamine
95.12883	62759	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	N-Nitrosodimethylamine
95.12883	86306	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	N-Nitrosodiphenylamine
95.12883	87865	7400.	2220.	UG/KG	14600.	1460.	9/20/95	WARNING 2-3 SIG	Pentachlorophenol
95.12883	85018	2200.	660.	UG/KG	0.0		9/20/95	OUT OF CONTROL	Phenanthrene
95.12883	108952	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	Phenol
95.12883	129000	3400.	1020.	UG/KG	6000.	600.	9/20/95	WARNING 2-3 SIG	Pyrene
95.12883	120821	940.	282.	UG/KG	2750.	275.	9/20/95	OUT OF CONTROL	1,2,4-Trichlorobenzene
95.12883	95954	< 310.		UG/KG	0.0		9/20/95	UNDER CONTROL	2,4,5-Trichlorophenol
95.12883	88062	3900.	1170.	UG/KG	6490.	649.	9/20/95	UNDER CONTROL	2,4,6-Trichlorophenol

********** EM-9 QUALITY ASSURANCE REPORT **********

SURROGATE RESULTS FOR EPA SEMIVOLATILES

Surrogate 1 = 2-Fluorophenol (CAS # = 367124)
Surrogate 2 = Phenol-d5 (CAS # = 4165622)
Surrogate 3 = Nitrobenzene-d5 (CAS # = 4165600)
Surrogate 4 = 2-Fluorobiphenyl (CAS # = 321608)
Surrogate 5 = 2,4,6-Tribromophenol (CAS # = 118796)
Surrogate 6 = p-Terphenyl-d14 (CAS # = 26140603)
Surrogate 7 = 4-Chloroaniline (CAS # = 106478)

SAMPLE NUMBER	UNITS	Surrogate 1	Surrogate 2	Surrogate 3	Surrogate 4	Surrogate 5	Surrogate 6	Surrogate 7	COMPLETION DATE
95.12837	%	52.	59.	58.	57.	63.	64.		20-Sep-1995
95.12838	%	50.	59.	54.	62.	72.	85.		20-Sep-1995
95.12839	%	57.	68.	67.	66.	63.	71.		20-Sep-1995
95.12840	%	40.	43.	44.	45.	46.	57.		20-Sep-1995
95.12841	%	10.	18.	28.	33.	8.	28.		20-Sep-1995
95.12842	%	39.	48.	40.	50.	51.	106.		20-Sep-1995
95.12843	%	55.	67.	59.	66.	71.	66.		20-Sep-1995
95.12844	%	46.	54.	50.	54.	54.	58.		20-Sep-1995
95.12845	%	68.	58.	49.	55.	61.	51.		20-Sep-1995
95.12845	%	72.	63.	55.	63.	63.	55.		20-Sep-1995
95.12845	%	50.	57.	54.	58.	66.	71.		20-Sep-1995
95.12846	%	49.	58.	55.	59.	58.	79.		20-Sep-1995
95.12847	%	53.	60.	57.	64.	62.	93.		20-Sep-1995
95.12848	%	35.	46.	49.	51.	41.	71.		20-Sep-1995
95.12849	%	46.	49.	47.	54.	50.	105.		20-Sep-1995
95.12850	%	17.	25.	25.	31.	37.	83.		20-Sep-1995
95.12851	%	49.	53.	52.	53.	57.	63.		20-Sep-1995
95.12852	%	52.	62.	56.	59.	63.	70.		20-Sep-1995
95.12853	%	55.	59.	59.	58.	60.	64.		20-Sep-1995
95.12854	%	45.	56.	53.	55.	52.	61.		20-Sep-1995
95.12869	%	51.	57.	55.	58.	62.	77.		20-Sep-1995
95.12870	%	86.	86.	91.	68.	76.	89.		20-Sep-1995
95.12883	%	55.	61.	59.	61.	68.	72.		20-Sep-1995

EPA Limit-

Water	%	21 - 100	10 - 94	35 - 114	43 - 116	10 - [illegible]	33 - 141	34 - 120
Soil	%	25 - 121	24 - 113	23 - 120	30 - 115	19 - 122	18 - 137	

********** EM-9 QUALITY ASSURANCE REPORT **********

REPORT NUMBER: 38283

	Analyst	Reviewer	Team Leader	QA Officer
				mag
	Date	Date	9/20/95 Date	9/20/95 Date

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in
'Quality Assurance for Health and Environmental Chemistry: 1992,' LA-12790-MS, Vol. I, pp. 19-20

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* PRELIMINARY *
COPY

re: Anthony Lombardo, CRC 9/27/95

LOS ALAMOS NATIONAL LABORATORY
CST-12 ORGANIC ANALYSIS GROUP

DATA REVIEW CERTIFICATION

Request Number: 22530 Analysis: SW846-8270 Semivolatile

The data contained in the enclosed report has been reviewed and approved by the people listed below:

ROBERT C. JOHNSON		9/11/95
Analyst Name (print)	Analyst Signature	Date
Anthony Lombardo		9/24/95
Data Reviewer Name (print)	Data Reviewer Signature	Date

Cathering 9/27/95

The final sized
burning gel sample
Check other data sheet
should they be in
the same on these
sheet. If so we need
to call where yes
amended copy

RC

CST-12 VOLATILE ORGANIC ANALYSIS
SUMMARY OF ANALYTICAL RESULTS

TO: Ron C. Conrad **DATE:** September 21, 1995

FROM: Mike Randow *through* Anthony Lombardo, CST-12 Organic Analysis Section
T-9/24/95

MATRIX: SOIL **REQUEST NUMBER: 22530**

Results Summary
Attached is a tabulation of samples submitted for semivolatile analysis and their analytical results (Table 1.) One sample was received for semivolatile analysis. The sample was collected on August 24, 1995. Sample extraction was started on August 28, 1995. Samples were analyzed on September 7, 1995. All hold times were met.

Method Summary
Samples were extracted by Sonication Extraction method. Approximately 30 grams of sample was mixed with 60 grams of sodium sulfate and sonicated with 100 ml of methylene chloride. The methylene chloride was separated from the solids and sonication was repeated with two additional 100 ml aliquot of methylene chloride. Sample extracts were combined and concentrated to 1.0 ml final volume. Appropriate surrogate standards were added prior to extraction. Analysis was performed by capillary column GC/MS methods. Extraction and analysis methods are consistent with EPA SW-846 methods 3550 and 8270. Analytical column used was a J&W scientific DB5.MS 30 M X 0.25 mm ID or equivalent.

Anomalies And Analysis Notes
Below is a summary of QA/QC criteria as outlined in EPA SW-846 and LANL SOPs and a summary of any anomalies which occured during the analyses.

Calibration QC were within criteria for all analyses.
Surrogate recoveries were within criteria for all analyses.
Internal standard responses were within criteria for all other analyses.

Matrix spike and matrix spike duplicate were analyzed as part of the analytical batch which included the samples from this work request. All spike recoveries and relative percent differences were within criteria. A copy of the MS/MSD recovery form is included with this report.

Holding times were met for all sample analyses.

If you have any questions regarding this data, please call Anthony Lombardo at 665-7410.

CST-12 SEMIVOLATILE ORGANIC ANALYSIS
SUMMARY OF ANALYTICAL RESULTS

Table 1. Summary of results of sample analyses for semivolatiles.

REQUEST NUMBER: 22530

SAMPLE ID	TARGET COMPOUNDS FOUND	AMOUNT (ug/Kg)	LOQ (ug/Kg)	TICs
B95.14161	NONE			N
S95.14158	bis-2-Ethylhexylphthalate common lab contaminant	110 J	370	Y

Sample IDs beginning with the letter S are samples; those beginning with the letter B are blanks.

LOQ: Limit of quantitation. LOQs normally range between 330 and 1650ug/Kg depending on the compound, unless otherwise noted.

TICs: Tentatively identified compounds. Y = TICs were found. N = TICs were not found.

J: Compound is present in the sample, but at a concentration that is less than LOQ. This concentration should be considered an estimate.

TL 9/24/95

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLK01

Lab Name: LANL-CST12 Contract: _____

Project No.: 22530 Site: _____ Location: _____ Group: _____

Matrix: (soil/water) SOIL Lab Sample ID: B9514161

Sample wt/vol: 30.0 (g/mL G Lab File ID: D090705.D

Level: (low/med) LOW Date Received: 8/24/95

% Moisture: 0 decanted: (Y/N): N Date Extracted: 8/28/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/7/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/Kg	Q
62-75-9	N-Nitrosodimethylamine	330	U
625-3-3	Aniline	330	U
108-95-2	Phenol	330	U
111-44-4	bis-2-Chloroethyl ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
100-51-6	Benzyl alcohol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	bis-2-Chloroisopropyl ether	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis-2-Chloroethoxy methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
65-85-0	Benzoic acid	1700	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	1700	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	670	U
131-11-3	Dimethylphthalate	330	U

TC 9/25/95

FORM I SV

3/90

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
SBLK01

Lab Name: LANL-CST12 Contract: _____

Project No.: 22530 Site: _____ Location: _____ Group: _____

Matrix: (soil/water) SOIL Lab Sample ID: B9514161

Sample wt/vol: 30.0 (g/mL G Lab File ID: D090705.D

Level: (low/med) LOW Date Received: 8/24/95

% Moisture: 0 decanted: (Y/N): N Date Extracted: 8/28/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/7/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/Kg	Q
208-96-8	Acenaphthylene	330	U
83-32-9	Acenaphthene	330	U
99-09-2	3-Nitroaniline	670	U
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	1700	U
121-14-2	2,4-Dinitrotoluene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl phenyl ether	330	U
84-66-2	Diethylphthalate	330	U
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine	330	U
103-33-3	Azobenzene	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
92-87-5	Benzidine	1700	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	670	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis-2-Ethylhexylphthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U

TM 9/25/95

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLK01

Lab Name: LANL-CST12 Contract: _____

Project No.: 22530 Site: _____ Location: _____ Group: _____

Matrix: (soil/water) SOIL Lab Sample ID: B9514161

Sample wt/vol: 30.0 (g/mL G Lab File ID: D090705.D

Level: (low/med) LOW Date Received: 8/24/95

% Moisture: 0 decanted: (Y/N): N Date Extracted: 8/28/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/7/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/Kg	Q
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

TL 9/25/95

FORM I SV

3/90

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
S9514158

Lab Name: LANL-CST12 Contract: _____

Project No.: 22530 Site: _____ Location: _____ Group: _____

Matrix: (soil/water) SOIL Lab Sample ID: S9514158

Sample wt/vol: 30.1 (g/mL G Lab File ID: D090707.D

Level: (low/med) LOW Date Received: 8/24/95

% Moisture: 10 decanted: (Y/N): N Date Extracted: 8/28/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/7/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/Kg	Q
62-75-9	N-Nitrosodimethylamine	370	U
625-3-3	Aniline	370	U
108-95-2	Phenol	370	U
111-44-4	bis-2-Chloroethyl ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
100-51-6	Benzyl alcohol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	bis-2-Chloroisopropyl ether	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
111-91-1	bis-2-Chloroethoxy methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
65-85-0	Benzoic acid	1800	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	1800	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	740	U
131-11-3	Dimethylphthalate	370	U

R 9/24/95

FORM I SV

3/90

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S9514158

Lab Name: LANL-CST12 Contract:

Project No.: 22530 Site: Location: Group:

Matrix: (soil/water) SOIL Lab Sample ID: S9514158

Sample wt/vol: 30.1 (g/mL G Lab File ID: D090707.D

Level: (low/med) LOW Date Received: 8/24/95

% Moisture: 10 decanted: (Y/N): N Date Extracted: 8/28/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/7/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/Kg	Q
208-96-8	Acenaphthylene	370	U
83-32-9	Acenaphthene	370	U
99-09-2	3-Nitroaniline	740	U
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	1800	U
121-14-2	2,4-Dinitrotoluene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
86-73-7	Fluorene	370	U
7005-72-3	4-Chlorophenyl phenyl ether	370	U
84-66-2	Diethylphthalate	370	U
100-01-6	4-Nitroaniline	740	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine	370	U
103-33-3	Azobenzene	370	U
101-55-3	4-Bromophenyl phenyl ether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	370	U
92-87-5	Benzidine	1800	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	740	U
56-55-3	Benzo(a)anthracene	370	U
218-01-9	Chrysene	370	U
117-81-7	bis-2-Ethylhexylphthalate	110	J
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	370	U
207-08-9	Benzo(k)fluoranthene	370	U
50-32-8	Benzo(a)pyrene	370	U

TL 9/24/95

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S9514158

Lab Name: LANL-CST12 Contract: _____

Project No.: 22530 Site: _____ Location: _____ Group: _____

Matrix: (soil/water) SOIL Lab Sample ID: S9514158

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Level: (low/med) LOW Date Received: 8/24/95

% Moisture: 10 decanted: (Y/N): N Date Extracted: 8/28/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/7/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/Kg	Q
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
53-70-3	Dibenzo(a,h)anthracene	370	U
191-24-2	Benzo(g,h,i)perylene	370	U

9/24/95

FORM I SV

3/90

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: LANL-CST12 Contract: _____

Project No.: 22415 Site: _____ Location: _____ Group: _____

Matrix Spike - Sample No.: SBLK02 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3300	0	1900	58	(26-90)
2-Chlorophenol	3300	0	1900	58	(25-102)
1,4-Dichlorobenzene	1700	0	940	55	(28-104)
N-Nitroso-di-n-propylamine	1700	0	1000	59	(41-126)
1,2,4-Trichlorobenzene	1700	0	960	56	(38-107)
4-Chloro-3-methylphenol	3300	0	2200	67	(26-103)
Acenaphthene	1700	0	980	58	(31-137)
4-Nitrophenol	3300	0	2200	67	(11-114)
2,4-Dinitrotoluene	1700	0	1100	65	(28-89)
Pentachlorophenol	3300	0	2400	73	(17-109)
Pyrene	1700	0	1200	71	(35-142)

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3300	2200	67	15	35	(26-90)
2-Chlorophenol	3300	2200	67	15	50	(25-102)
1,4-Dichlorobenzene	1700	1100	65	16	27	(28-104)
N-Nitroso-di-n-propylamine	1700	1100	65	10	38	(41-126)
1,2,4-Trichlorobenzene	1700	1100	65	14	23	(38-107)
4-Chloro-3-methylphenol	3300	2400	73	9	33	(26-103)
Acenaphthene	1700	1100	65	12	19	(31-137)
4-Nitrophenol	3300	2400	73	9	50	(11-114)
2,4-Dinitrotoluene	1700	1200	71	9	47	(28-89)
Pentachlorophenol	3300	2700	82	12	47	(17-109)
Pyrene	1700	1300	76	8	36	(35-142)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits

Comments: TL 9/25/95

4W

DNIS

EM-9 ANALYTICAL SERVICE AGREEMENT
Samples Assigned Report

REQUEST NBR
22530

ANALYTICAL SECTION: ORGNC

PROGRAM FUND CODE: WE5A

.E DISPOSAL: Discard

AGREEMENT_DATE: 25-AUG-95

PRIORITY CODE: 3

SCREENING DATA: No Screening Data Required

CUSTOMER: RCC; Ron C. Conrad

MAIL STOP: K490

PHONE: 667-0950

SIGNATURE: Diana Martinez DM

TOTAL SAMPLES: _____

COUNTS:

ANALYSIS	TECHNIQUE	ANALYST	DUE	NBR SAMPLES
SEMIVOL	GCMS	AJL	25-OCT-95	2
VOLATILES	GCMS	JDT	25-OCT-95	3

REMARKS:

SOIL SAMPLE SUBMITTED FOR VOA/SVOA ANALYSIS

SAMPLES:

ANALYSIS	SAMPLE	TECHNIQUE	MATRX	TYPE	PRESERVATIVES	HAZARDS	COLLECTED	DUE	ANALST
SEMIVOL	95.14158-Cut-2	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	24-AUG-95	25-OCT-95	AJL
	95.14161-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	24-AUG-95	25-OCT-95	AJL
VOLATILES	95.14158-Cut-1	GCMS	SS		KEEP AT 4 CELSIUS	NO HAZARDS	24-AUG-95	25-OCT-95	JDT
					KEEP AT 4 CELSIUS	NO HAZARDS	24-AUG-95	25-OCT-95	JDT
	95.14159-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	24-AUG-95	25-OCT-95	JDT
	95.14160-Cut-1	GCMS	SS	BLANK	NO PRESERVS	NO HAZARDS	24-AUG-95	25-OCT-95	JDT

Agreement	Sample Nbr	Customer Number	Date Collected
22530	95.14159	00.20227	24-AUG-95
30	95.14160	00.20227	24-AUG-95
30	95.14161	00.20227	24-AUG-95
22530	95.14158	PRS16-010B7	24-AUG-95

Semi

CST-12 VOLATILE ORGANIC ANALYSIS
SUMMARY OF ANALYTICAL RESULTS

TO: Ron C. Conrad

DATE: September 21, 1995

FROM: Mike Randow *through* Anthony Lombardo, CST-12 Organic Analysis Section
TL 9/29/95

MATRIX: SOIL

REQUEST NUMBER: 22530

Results Summary
Attached is a tabulation of samples submitted for semivolatile analysis and their analytical results (Table 1.) One sample was received for semivolatile analysis. The sample was collected on August 24, 1995. Sample extraction was started on August 28, 1995. Samples were analyzed on September 7, 1995. All hold times were met.

Method Summary
Samples were extracted by Sonication Extraction method. Approximately 30 grams of sample was mixed with 60 grams of sodium sulfate and sonicated with 100 ml of methylene chloride. The methylene chloride was separated from the solids and sonication was repeated with two additional 100 ml aliquot of methylene chloride. Sample extracts were combined and concentrated to 1.0 ml final volume. Appropriate surrogate standards were added prior to extraction. Analysis was performed by capillary column GC/MS methods. Extraction and analysis methods are consistent with EPA SW-846 methods 3550 and 8270. Analytical column used was a J&W scientific DB5.MS 30 M X 0.25 mm ID or equivalent.

Anomalies And Analysis Notes
Below is a summary of QA/QC criteria as outlined in EPA SW-846 and LANL SOPs and a summary of any anomalies which occured during the analyses.

Calibration QC were within criteria for all analyses.
Surrogate recoveries were within criteria for all analyses.
Internal standard responses were within criteria for all other analyses.

Matrix spike and matrix spike duplicate were analyzed as part of the analytical batch which included the samples from this work request. All spike recoveries and relative percent differences were within criteria. A copy of the MS/MSD recovery form is included with this report.

Holding times were met for all sample analyses.

If you have any questions regarding this data, please call Anthony Lombardo at 665-7410.

TN-16
For BP only
at Burning ground

CST-12 SEMIVOLATILE ORGANIC ANALYSIS
SUMMARY OF ANALYTICAL RESULTS

Table 1. Summary of results of sample analyses for semivolatiles.

REQUEST NUMBER: 22530

SAMPLE ID	TARGET COMPOUNDS FOUND	AMOUNT (ug/Kg)	LOQ (ug/Kg)	TICs
B95.14161	NONE			N
S95.14158	bis-2-Ethylhexylphthalate Common lab contaminant TCND	110 J	370	Y

Sample IDs beginning with the letter S are samples; those beginning with the letter B are blanks.

LOQ: Limit of quantitation. LOQs normally range between 330 and 1650ug/Kg depending on the compound, unless otherwise noted.

TICs: Tentatively identified compounds. Y = TICs were found. N = TICs were not found.

J: Compound is present in the sample, but at a concentration that is less than LOQ. This concentration should be considered an estimate.

TL 9/24/95

LOS ALAMOS NATIONAL LABORATORY
CST-12 ORGANIC ANALYSIS GROUP

DATA REVIEW CERTIFICATION

Request Number: 22530 Analysis: SW846-8270 Semivolatile

The data contained in the enclosed report has been reviewed and approved by the people listed below:

ROBERT C. JOHNSON		9/11/95
Analyst Name (print)	Analyst Signature	Date
Anthony Lombardo	Anthony Lombardo	9/24/95
Data Reviewer Name (print)	Data Reviewer Signature	Date

********** CST ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22530 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082118 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.14158 Date Collected: 8/24/95 Date Received: 8/25/95 Date Extracted: 8/28/95 Date Analyzed: 9/07/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B7	95.14158	83329	< 370.		UG/KG	9/28/95		Acenaphthene
PRS16-010B7	95.14158	208968	< 370.		UG/KG	9/28/95		Acenaphthylene
PRS16-010B7	95.14158	62533	< 370.		UG/KG	9/28/95		Aniline
PRS16-010B7	95.14158	120127	< 370.		UG/KG	9/28/95		Anthracene
PRS16-010B7	95.14158	103333	< 370.		UG/KG	9/28/95		Azobenzene
PRS16-010B7	95.14158	92875	< 1800.		UG/KG	9/28/95		m-Benzidine
PRS16-010B7	95.14158	56553	< 370.		UG/KG	9/28/95		Benzo[a]anthracene
PRS16-010B7	95.14158	50328	< 370.		UG/KG	9/28/95		Benzo[a]pyrene
PRS16-010B7	95.14158	205992	< 370.		UG/KG	9/28/95		Benzo[b]fluoranthene
PRS16-010B7	95.14158	191242	< 370.		UG/KG	9/28/95		Benzo[g,h,i]perylene
PRS16-010B7	95.14158	207089	< 370.		UG/KG	9/28/95		Benzo[k]fluoranthene
PRS16-010B7	95.14158	65850	< 1800.		UG/KG	9/28/95		Benzoic acid
PRS16-010B7	95.14158	100516	< 370.		UG/KG	9/28/95		Benzyl alcohol
PRS16-010B7	95.14158	111911	< 370.		UG/KG	9/28/95		Bis(2-chloroethoxy)methane
PRS16-010B7	95.14158	111444	< 370.		UG/KG	9/28/95		Bis(2-chloroethyl)ether
PRS16-010B7	95.14158	108601	< 370.		UG/KG	9/28/95		Bis(2-chloroisopropyl)ether
PRS16-010B7	95.14158	117817	< 370.		UG/KG	9/28/95		Bis(2-ethylhexyl)phthalate
PRS16-010B7	95.14158	101553	< 370.		UG/KG	9/28/95		4-Bromophenylphenyl ether
PRS16-010B7	95.14158	85687	< 370.		UG/KG	9/28/95		Butyl benzyl phthalate
PRS16-010B7	95.14158	59507	< 370.		UG/KG	9/28/95		4-Chloro-3-methylphenol
PRS16-010B7	95.14158	106478	< 370.		UG/KG	9/28/95		4-Chloroaniline
PRS16-010B7	95.14158	91587	< 370.		UG/KG	9/28/95		2-Chloronaphthalene
PRS16-010B7	95.14158	95578	< 370.		UG/KG	9/28/95		o-Chlorophenol
PRS16-010B7	95.14158	7005723	< 370.		UG/KG	9/28/95		4-Chlorophenylphenyl ether
PRS16-010B7	95.14158	218019	< 370.		UG/KG	9/28/95		Chrysene
PRS16-010B7	95.14158	84742	< 370.		UG/KG	9/28/95		Di-n-butyl phthalate

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B7	95.14158	117840	< 370.		UG/KG	9/28/95		Di-n-octyl phthalate
PRS16-010B7	95.14158	53703	< 370.		UG/KG	9/28/95		Dibenzo[a,h]anthracene
PRS16-010B7	95.14158	132649	< 1800.		UG/KG	9/28/95		Dibenzofuran
PRS16-010B7	95.14158	95501	< 370.		UG/KG	9/28/95		o-Dichlorobenzene (1,2)
PRS16-010B7	95.14158	541731	< 370.		UG/KG	9/28/95		m-Dichlorobenzene (1,3)
PRS16-010B7	95.14158	106467	< 370.		UG/KG	9/28/95		p-Dichlorobenzene (1,4)
PRS16-010B7	95.14158	91941	< 740.		UG/KG	9/28/95		3,3'-Dichlorobenzidine
PRS16-010B7	95.14158	120832	< 370.		UG/KG	9/28/95		2,4-Dichlorophenol
PRS16-010B7	95.14158	84662	< 370.		UG/KG	9/28/95		Diethyl phthalate
PRS16-010B7	95.14158	131113	< 370.		UG/KG	9/28/95		Dimethyl phthalate
PRS16-010B7	95.14158	105679	< 370.		UG/KG	9/28/95		2,4-Dimethylphenol
PRS16-010B7	95.14158	51285	< 370.		UG/KG	9/28/95		2,4-Dinitrophenol
PRS16-010B7	95.14158	121142	< 370.		UG/KG	9/28/95		2,4-Dinitrotoluene
PRS16-010B7	95.14158	606202	< 370.		UG/KG	9/28/95		2,6-Dinitrotoluene
PRS16-010B7	95.14158	206440	< 370.		UG/KG	9/28/95		Fluoranthene
PRS16-010B7	95.14158	86737	< 370.		UG/KG	9/28/95		Fluorene
PRS16-010B7	95.14158	118741	< 370.		UG/KG	9/28/95		Hexachlorobenzene
PRS16-010B7	95.14158	87683	< 1800.		UG/KG	9/28/95		Hexachlorobutadiene
PRS16-010B7	95.14158	77474	< 370.		UG/KG	9/28/95		Hexachlorocyclopentadiene
PRS16-010B7	95.14158	67721	< 370.		UG/KG	9/28/95		Hexachloroethane
PRS16-010B7	95.14158	193395	< 370.		UG/KG	9/28/95		Indeno[1,2,3-cd]pyrene
PRS16-010B7	95.14158	78591	< 370.		UG/KG	9/28/95		Isophorone
PRS16-010B7	95.14158	534521	< 1800.		UG/KG	9/28/95		2-Methyl-4,6-dinitrophenol
PRS16-010B7	95.14158	91576	< 370.		UG/KG	9/28/95		2-Methylnaphthalene
PRS16-010B7	95.14158	95487	< 370.		UG/KG	9/28/95		2-Methylphenol
PRS16-010B7	95.14158	106445	< 370.		UG/KG	9/28/95		4-Methylphenol
PRS16-010B7	95.14158	91203	< 370.		UG/KG	9/28/95		Naphthalene
PRS16-010B7	95.14158	88744	< 740.		UG/KG	9/28/95		2-Nitroaniline
PRS16-010B7	95.14158	99092	< 740.		UG/KG	9/28/95		3-Nitroaniline
PRS16-010B7	95.14158	100016	< 740.		UG/KG	9/28/95		4-Nitroaniline
PRS16-010B7	95.14158	98953	< 370.		UG/KG	9/28/95		Nitrobenzene
PRS16-010B7	95.14158	88755	< 370.		UG/KG	9/28/95		2-Nitrophenol
PRS16-010B7	95.14158	100027	< 1800.		UG/KG	9/28/95		4-Nitrophenol
PRS16-010B7	95.14158	621647	< 370.		UG/KG	9/28/95		N-Nitrosodi-n-propylamine
PRS16-010B7	95.14158	62759	< 370.		UG/KG	9/28/95		N-Nitrosodimethylamine
PRS16-010B7	95.14158	86306	< 370.		UG/KG	9/28/95		N-Nitrosodiphenylamine

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B7	95.14158	87865	< 370.		UG/KG	9/28/95		Pentachlorophenol
PRS16-010B7	95.14158	85018	< 370.		UG/KG	9/28/95		Phenanthrene
PRS16-010B7	95.14158	108952	< 370.		UG/KG	9/28/95		Phenol
PRS16-010B7	95.14158	129000	< 370.		UG/KG	9/28/95		Pyrene
PRS16-010B7	95.14158	120821	< 370.		UG/KG	9/28/95		1,2,4-Trichlorobenzene
PRS16-010B7	95.14158	95954	< 370.		UG/KG	9/28/95		2,4,5-Trichlorophenol
PRS16-010B7	95.14158	88062	< 370.		UG/KG	9/28/95		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 95.14158

none

********** EM-9 QUALITY ASSURANCE REPORT **********

EPA SEMIVOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22530 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: WE5A NOTEBOOK: D082118 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QA SAMPLES RUN WITH THIS BATCH

There were no open (non-blind) Quality Control materials run with the samples reported above for one of the following reasons:

____ Only qualitative data requested

____ Only Blind QC samples run with this batch.

____ No QC samples run with this sample batch.

____ No QC samples for this constituent and matrix type available within CST

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLANK QC SAMPLES RUN WITH THIS BATCH

Blank Results, Sample # 95.14161 Date Collected: 8/24/95 Date Received: 8/25/95 Date Extracted: 8/28/95 Date Analyzed: 9/07/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.14161	83329	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Acenaphthene
00.20227	95.14161	208968	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Acenaphthylene
00.20227	95.14161	62533	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Aniline
00.20227	95.14161	120127	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Anthracene
00.20227	95.14161	103333	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Azobenzene
00.20227	95.14161	92875	< 1700.		UG/KG	0.0		9/28/95	UNDER CONTROL	m-Benzidine
00.20227	95.14161	56553	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Benzo[a]anthracene
00.20227	95.14161	50328	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Benzo[a]pyrene
00.20227	95.14161	205992	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Benzo[b]fluoranthene
00.20227	95.14161	191242	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Benzo[g,h,i]perylene
00.20227	95.14161	207089	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Benzo[k]fluoranthene
00.20227	95.14161	65850	< 1700.		UG/KG	0.0		9/28/95	UNDER CONTROL	Benzoic acid
00.20227	95.14161	100516	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Benzyl alcohol
00.20227	95.14161	111911	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bis(2-chloroethoxy)methane
00.20227	95.14161	111444	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bis(2-chloroethyl)ether
00.20227	95.14161	108601	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bis(2-chloroisopropyl)ether
00.20227	95.14161	117817	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bis(2-ethylhexyl)phthalate
00.20227	95.14161	101553	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	4-Bromophenylphenyl ether
00.20227	95.14161	85687	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Butyl benzyl phthalate
00.20227	95.14161	59507	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	4-Chloro-3-methylphenol
00.20227	95.14161	106478	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	4-Chloroaniline

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.14161	91587	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	2-Chloronaphthalene
00.20227	95.14161	95578	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	o-Chlorophenol
00.20227	95.14161	7005723	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	4-Chlorophenylphenyl ether
00.20227	95.14161	218019	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chrysene
00.20227	95.14161	84742	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Di-n-butyl phthalate
00.20227	95.14161	117840	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Di-n-octyl phthalate
00.20227	95.14161	53703	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Dibenzo[a,h]anthracene
00.20227	95.14161	132649	< 1700.		UG/KG	0.0		9/28/95	UNDER CONTROL	Dibenzofuran
00.20227	95.14161	95501	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.20227	95.14161	541731	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.20227	95.14161	106467	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.20227	95.14161	91941	< 670.		UG/KG	0.0		9/28/95	UNDER CONTROL	3,3'-Dichlorobenzidine
00.20227	95.14161	120832	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	2,4-Dichlorophenol
00.20227	95.14161	84662	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Diethyl phthalate
00.20227	95.14161	131113	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Dimethyl phthalate
00.20227	95.14161	105679	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	2,4-Dimethylphenol
00.20227	95.14161	51285	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	2,4-Dinitrophenol
00.20227	95.14161	121142	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	2,4-Dinitrotoluene
00.20227	95.14161	606202	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	2,6-Dinitrotoluene
00.20227	95.14161	206440	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Fluoranthene
00.20227	95.14161	86737	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Fluorene
00.20227	95.14161	118741	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Hexachlorobenzene
00.20227	95.14161	87683	< 1700.		UG/KG	0.0		9/28/95	UNDER CONTROL	Hexachlorobutadiene
00.20227	95.14161	77474	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Hexachlorocyclopentadiene
00.20227	95.14161	67721	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Hexachloroethane
00.20227	95.14161	193395	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Indeno[1,2,3-cd]pyrene
00.20227	95.14161	78591	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Isophorone
00.20227	95.14161	534521	< 1700.		UG/KG	0.0		9/28/95	UNDER CONTROL	2-Methyl-4,6-dinitrophenol
00.20227	95.14161	91576	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	2-Methylnaphthalene
00.20227	95.14161	95487	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	2-Methylphenol
00.20227	95.14161	106445	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	4-Methylphenol
00.20227	95.14161	91203	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Naphthalene
00.20227	95.14161	88744	< 670.		UG/KG	0.0		9/28/95	UNDER CONTROL	2-Nitroaniline
00.20227	95.14161	99092	< 670.		UG/KG	0.0		9/28/95	UNDER CONTROL	3-Nitroaniline
00.20227	95.14161	100016	< 670.		UG/KG	0.0		9/28/95	UNDER CONTROL	4-Nitroaniline
00.20227	95.14161	98953	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Nitrobenzene

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.14161	88755	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	2-Nitrophenol
00.20227	95.14161	100027	< 1700.		UG/KG	0.0		9/28/95	UNDER CONTROL	4-Nitrophenol
00.20227	95.14161	621647	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	N-Nitrosodi-n-propylamine
00.20227	95.14161	62759	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	N-Nitrosodimethylamine
00.20227	95.14161	86306	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	N-Nitrosodiphenylamine
00.20227	95.14161	87865	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Pentachlorophenol
00.20227	95.14161	85018	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Phenanthrene
00.20227	95.14161	108952	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Phenol
00.20227	95.14161	129000	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	Pyrene
00.20227	95.14161	120821	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2,4-Trichlorobenzene
00.20227	95.14161	95954	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	2,4,5-Trichlorophenol
00.20227	95.14161	88062	< 330.		UG/KG	0.0		9/28/95	UNDER CONTROL	2,4,6-Trichlorophenol

Blank Spike Results: none

Blank Spike Duplicate Results: none

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLIND QA SAMPLES RUN WITH THIS BATCH

Blind QC Results, Sample # 95.13082 Date Collected: 8/24/95 Date Received: 8/25/95 Date Extracted: 8/28/95 Date Analyzed: 9/07/95

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
95.13082	83329	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Acenaphthene
95.13082	208968	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Acenaphthylene
95.13082	62533	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Aniline
95.13082	120127	2100.	630.	UG/KG	6110.	611.	9/07/95	OUT OF CONTROL	Anthracene
95.13082	103333	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Azobenzene
95.13082	92875	< 1700.		UG/KG	0.0		9/07/95	UNDER CONTROL	m-Benzidine
95.13082	56553	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Benzo[a]anthracene
95.13082	50328	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Benzo[a]pyrene
95.13082	205992	2300.	690.	UG/KG	5350.	535.	9/07/95	OUT OF CONTROL	Benzo[b]fluoranthene
95.13082	191242	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Benzo[g,h,i]perylene
95.13082	207089	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Benzo[k]fluoranthene
95.13082	65850	< 1700.		UG/KG	0.0		9/07/95	UNDER CONTROL	Benzoic acid
95.13082	100516	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Benzyl alcohol
95.13082	111911	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Bis(2-chloroethoxy)methane
95.13082	111444	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Bis(2-chloroethyl)ether
95.13082	108601	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Bis(2-chloroisopropyl)ether
95.13082	117817	5400.	1620.	UG/KG	7930.	793.	9/07/95	UNDER CONTROL	Bis(2-ethylhexyl)phthalate
95.13082	101553	8100.	2430.	UG/KG	12000.	1200.	9/07/95	UNDER CONTROL	4-Bromophenylphenyl ether
95.13082	85687	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Butyl benzyl phthalate
95.13082	59507	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	4-Chloro-3-methylphenol
95.13082	106478	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	4-Chloroaniline
95.13082	91587	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	2-Chloronaphthalene
95.13082	95578	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	o-Chlorophenol
95.13082	7005723	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	4-Chlorophenylphenyl ether
95.13082	218019	3200.	960.	UG/KG	4270.	427.	9/07/95	UNDER CONTROL	Chrysene
95.13082	84742	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Di-n-butyl phthala+

95.13082	117840	7600.	2280.	UG/KG	12500.	1250.	9/07/95	UNDER CONTROL	Di-n-octyl phthalate
95.13082	53703	1600.	480.	UG/KG	2970.	297.	9/07/95	WARNING 2-3 SIG	Dibenzo[a,h]anthracene
95.13082	132649	4000.	1200.	UG/KG	7240.	724.	9/07/95	WARNING 2-3 SIG	Dibenzofuran
95.13082	95501	570.	171.	UG/KG	4480.	448.	9/07/95	OUT OF CONTROL	o-Dichlorobenzene (1,2)
95.13082	541731	480.	144.	UG/KG	6240.	624.	9/07/95	OUT OF CONTROL	m-Dichlorobenzene (1,3)
95.13082	106467	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	p-Dichlorobenzene (1,4)
95.13082	91941	< 660.		UG/KG	0.0		9/07/95	UNDER CONTROL	3,3'-Dichlorobenzidine
95.13082	120832	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	2,4-Dichlorophenol
95.13082	84662	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Diethyl phthalate
95.13082	131113	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Dimethyl phthalate
95.13082	105679	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	2,4-Dimethylphenol
95.13082	51285	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	2,4-Dinitrophenol
95.13082	121142	2100.	630.	UG/KG	3610.	361.	9/07/95	WARNING 2-3 SIG	2,4-Dinitrotoluene
95.13082	606202	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	2,6-Dinitrotoluene
95.13082	206440	1200.	360.	UG/KG	1890.	189.	9/07/95	UNDER CONTROL	Fluoranthene

95.13082	86737	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Fluorene
95.13082	118741	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Hexachlorobenzene
95.13082	87683	< 1700.		UG/KG	0.0		9/07/95	UNDER CONTROL	Hexachlorobutadiene
95.13082	77474	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Hexachlorocyclopentadiene
95.13082	67721	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Hexachloroethane
95.13082	193395	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Indeno[1,2,3-cd]pyrene
95.13082	78591	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Isophorone
95.13082	534521	< 1700.		UG/KG	0.0		9/07/95	UNDER CONTROL	2-Methyl-4,6-dinitrophenol
95.13082	91576	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	2-Methylnaphthalene
95.13082	95487	760.	228.	UG/KG	6260.	626.	9/07/95	OUT OF CONTROL	2-Methylphenol
95.13082	106445	1800.	540.	UG/KG	5980.	598.	9/07/95	OUT OF CONTROL	4-Methylphenol
95.13082	91203	3000.	900.	UG/KG	9550.	955.	9/07/95	OUT OF CONTROL	Naphthalene
95.13082	88744	< 660.		UG/KG	0.0		9/07/95	UNDER CONTROL	2-Nitroaniline
95.13082	99092	< 660.		UG/KG	0.0		9/07/95	UNDER CONTROL	3-Nitroaniline
95.13082	100016	< 660.		UG/KG	0.0		9/07/95	UNDER CONTROL	4-Nitroaniline
95.13082	98953	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Nitrobenzene
95.13082	88755	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	2-Nitrophenol
95.13082	100027	< 1700.		UG/KG	0.0		9/07/95	UNDER CONTROL	4-Nitrophenol
95.13082	621647	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	N-Nitrosodi-n-propylamine
95.13082	62759	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	N-Nitrosodimethylamine
95.13082	86306	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	N-Nitrosodiphenylamine
95.13082	87865	2200.	660.	UG/KG	4340.	434.	9/07/95	WARNING 2-3 SIG	Pentachlorophenol
95.13082	85018	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	Phenanthrene
95.13082	108952	3600.	1080.	UG/KG	9880.	988.	9/07/95	OUT OF CONTROL	Phenol
95.13082	129000	920.	276.	UG/KG	1520.	152.	9/07/95	UNDER CONTROL	Pyrene
95.13082	120821	1400.	420.	UG/KG	5080.	508.	9/07/95	OUT OF CONTROL	1,2,4-Trichlorobenzene
95.13082	95954	< 330.		UG/KG	0.0		9/07/95	UNDER CONTROL	2,4,5-Trichlorophenol
95.13082	88062	3900.	1170.	UG/KG	7560.	756.	9/07/95	WARNING 2-3 SIG	2,4,6-Trichlorophenol

********** EM-9 QUALITY ASSURANCE REPORT **********

SURROGATE RESULTS FOR EPA SEMIVOLATILES

Surrogate 1 = 2-Fluorophenol (CAS # = 367124)
Surrogate 2 = Phenol-d5 (CAS # = 4165622)
Surrogate 3 = Nitrobenzene-d5 (CAS # = 4165600)
Surrogate 4 = 2-Fluorobiphenyl (CAS # = 321608)
Surrogate 5 = 2,4,6-Tribromophenol (CAS # = 118796)
Surrogate 6 = p-Terphenyl-d14 (CAS # = 26140603)
Surrogate 7 = 4-Chloroaniline (CAS # = 106478)

SAMPLE NUMBER	UNITS	Surrogate 1	Surrogate 2	Surrogate 3	Surrogate 4	Surrogate 5	Surrogate 6	Surrogate 7	COMPLETION DATE
95.13082	%	44.	52.	52.	58.	66.	69.		7-Sep-1995
95.14158	%	76.	78.	78.	70.	67.	88.		28-Sep-1995
95.14161	%	64.	65.	68.	64.	67.	93.		28-Sep-1995
EPA Limits:									
Water	%	21 - 100	10 - 94	35 - 114	43 - 116	10 - 123	33 - 141	34 - 120	
Soil	%	25 - 121	24 - 113	23 - 120	30 - 115	19 - 122	18 - 137		

REPORT NUMBER: 38448

Analyst	Reviewer	Team Leader	QA Officer
		A Lombardi	NK for MAG
Date	Date	9/28/95	9/28/95

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1992,' LA-12790-MS, Vol. I, pp. 19-20

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Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

memorandum

To: Ron Conrad

Date: September 30, 1995

From: Martin Koby, CST-9

Mail Stop/Phone: E518/ 7-9996

Thru: Steve Doorn, task area leader

Subject: Inorganic Analytical Results - RN22399

Attached you will find the final analytical report(s) for request number 22399. No problems were noted during sample preparation and analysis. You will observe an out of control status for uranium, blind QC sample number 95.12899. Recovery of this analyte from this sample was approximately 30%. However, uranium recovery from two matrix spikes analyzed concurrently with this sample delivery group was biased somewhat high. This variability is most likely related to the chemical and physical characteristics of the given matrices, and is not totally unexpected.

Antimony recoveries are consistently low, typically 10%. This is a limitation of the digestion procedure, analyte solubility, and analyte concentration present in the sample. No additional problems were noted with this analytical request.

If you have any questions concerning this analytical report, please do not hesitate to contact either Steve or myself.

REPORT NUMBER: 37671

********** CST ANALYTICAL REPORT **********

Prepared by: PEC on 16-Aug-1995

REQUEST NUMBER: 22399 MATRIX: SS ANALYST: AAS PROGRAM CODE: WE5A

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950

NOTEBOOK: CST9002 PAGE: 72

CUSTOMER SAMPLES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PRS16-010B1	95.12834	AS	ETVAA	3.	0.6	UG/G	8/14/95	08043051A
PRS16-010B1	95.12834	HG	CVAA	0.06	0.05	UG/G	8/11/95	
PRS16-010B1	95.12834	SE	ETVAA	0.2	0.1	UG/G	8/10/95	
PRS16-010B4	95.12835	AS	ETVAA	4.	0.8	UG/G	8/14/95	08043051A
PRS16-010B4	95.12835	HG	CVAA	< 0.05		UG/G	8/11/95	
PRS16-010B4	95.12835	SE	ETVAA	0.1	0.1	UG/G	8/10/95	
PRS16-010B9	95.12836	AS	ETVAA	4.	0.8	UG/G	8/14/95	08043051A
PRS16-010B9	95.12836	HG	CVAA	0.06	0.05	UG/G	8/11/95	
PRS16-010B9	95.12836	SE	ETVAA	0.2	0.1	UG/G	8/10/95	
PRS16-010B6	95.12837	AS	ETVAA	3.	0.6	UG/G	8/14/95	08043051A
PRS16-010B6	95.12837	HG	CVAA	0.1	0.05	UG/G	8/11/95	
PRS16-010B6	95.12837	SE	ETVAA	0.2	0.1	UG/G	8/10/95	
PRS16-010B11	95.12838	AS	ETVAA	2.	0.4	UG/G	8/14/95	08043051A
PRS16-010B11	95.12838	HG	CVAA	0.06	0.05	UG/G	8/11/95	
PRS16-010B11	95.12838	SE	ETVAA	0.2	0.1	UG/G	8/10/95	
PRS16-010B12	95.12839	AS	ETVAA	1.	0.2	UG/G	8/14/95	08043051A
PRS16-010B12	95.12839	HG	CVAA	0.05	0.05	UG/G	8/11/95	
PRS16-010B12	95.12839	SE	ETVAA	0.3	0.1	UG/G	8/10/95	
PRS16-010B13	95.12840	AS	ETVAA	2.	0.4	UG/G	8/14/95	08043051A
PRS16-010B13	95.12840	HG	CVAA	0.06	0.05	UG/G	8/11/95	
PRS16-010B13	95.12840	SE	ETVAA	0.2	0.1	UG/G	8/10/95	
PRS16-010B14	95.12841	AS	ETVAA	230.	46.	UG/G	8/16/95	
PRS16-010B14	95.12841	HG	CVAA	< 0.05		UG/G	8/11/95	
PRS16-010B14	95.12841	SE	ETVAA	2.	0.4	UG/G	8/14/95	
PRS16-010J1	95.12842	AS	ETVAA	2.	0.4	UG/G	8/14/95	08043051A
PRS16-010J1	95.12842	HG	CVAA	0.1	0.05	UG/G	8/11/95	
PRS16-010J1	95.12842	SE	ETVAA	0.2	0.1	UG/G	8/10/95	
PRS16-010J2	95.12843	AS	ETVAA	2.	0.4	UG/G	8/14/95	08043051A
PRS16-010J2	95.12843	HG	CVAA	0.08	0.05	UG/G	8/11/95	
PRS16-010J2	95.12843	SE	ETVAA	0.3	0.1	UG/G	8/10/95	
PRS16-010J3	95.12844	AS	ETVAA	2.	0.4	UG/G	8/14/95	08043051A
PRS16-010J3	95.12844	HG	CVAA	0.06	0.05	UG/G	8/11/95	
PRS16-010J3	95.12844	SE	ETVAA	0.2	0.1	UG/G	8/10/95	
PRS16-010J5	95.12846	AS	ETVAA	2.	0.4	UG/G	8/14/95	08043051A
PRS16-010J5	95.12846	HG	CVAA	0.07	0.05	UG/G	8/11/95	
PRS16-010J5	95.12846	SE	ETVAA	0.2	0.1	UG/G	8/10/95	
PRS16-010J6	95.12847	AS	ETVAA	2.	0.5	UG/G	8/15/95	

PRS16-010J6	95.12847	HG	CVAA	< 0.05		UG/G	8/11/95
PRS16-010J6	95.12847	SE	ETVAA	< 0.3		UG/G	8/15/95
PRS16-010J7	95.12848	AS	ETVAA	2.	0.5	UG/G	8/15/95
PRS16-010J7	95.12848	HG	CVAA	0.05	0.05	UG/G	8/11/95
PRS16-010J7	95.12848	SE	ETVAA	< 0.3		UG/G	8/15/95
PRS16-010J8	95.12849	AS	ETVAA	0.9	0.5	UG/G	8/15/95
PRS16-010J8	95.12849	HG	CVAA	0.05	0.05	UG/G	8/11/95
PRS16-010J8	95.12849	SE	ETVAA	0.3	0.3	UG/G	8/15/95
PRS16-010J9	95.12850	AS	ETVAA	1.	0.5	UG/G	8/15/95
PRS16-010J9	95.12850	HG	CVAA	0.06	0.05	UG/G	8/11/95
PRS16-010J9	95.12850	SE	ETVAA	< 0.3		UG/G	8/15/95
PRS16-010B2	95.12851	AS	ETVAA	4.	0.8	UG/G	8/15/95
PRS16-010B2	95.12851	HG	CVAA	0.07	0.05	UG/G	8/11/95
PRS16-010B2	95.12851	SE	ETVAA	< 0.3		UG/G	8/15/95
PRS16-010B8	95.12852	AS	ETVAA	1.	0.5	UG/G	8/15/95
PRS16-010B8	95.12852	HG	CVAA	0.09	0.05	UG/G	8/11/95
PRS16-010B8	95.12852	SE	ETVAA	0.4	0.3	UG/G	8/15/95
PRS16-010B15	95.12853	AS	ETVAA	3.	0.6	UG/G	8/15/95
PRS16-010B15	95.12853	HG	CVAA	0.07	0.05	UG/G	8/11/95
PRS16-010B15	95.12853	SE	ETVAA	< 0.3		UG/G	8/15/95
PRS16-010J10	95.12854	AS	ETVAA	3.	0.6	UG/G	8/15/95
PRS16-010J10	95.12854	HG	CVAA	0.05	0.05	UG/G	8/11/95
PRS16-010J10	95.12854	SE	ETVAA	< 0.3		UG/G	8/15/95
PRS16-010B3	95.12855	AS	ETVAA	3.	0.6	UG/G	8/15/95
PRS16-010B3	95.12855	HG	CVAA	0.3	0.05	UG/G	8/11/95
PRS16-010B3	95.12855	SE	ETVAA	< 0.3		UG/G	8/15/95
PRS16-010B5	95.12856	AS	ETVAA	3.	0.6	UG/G	8/15/95
PRS16-010B5	95.12856	HG	CVAA	0.08	0.05	UG/G	8/11/95
PRS16-010B5	95.12856	SE	ETVAA	< 0.3		UG/G	8/15/95
PRS16-010B10	95.12857	AS	ETVAA	2.	0.5	UG/G	8/15/95
PRS16-010B10	95.12857	HG	CVAA	0.08	0.05	UG/G	8/11/95
PRS16-010B10	95.12857	SE	ETVAA	< 0.3		UG/G	8/15/95
PRSBKG-1	95.12894	AS	ETVAA	2.	0.5	UG/G	8/15/95
PRSBKG-1	95.12894	HG	CVAA	0.06	0.05	UG/G	8/11/95
PRSBKG-1	95.12894	SE	ETVAA	< 0.3		UG/G	8/15/95
PRSBKG-2	95.12895	AS	ETVAA	2.	0.5	UG/G	8/15/95
PRSBKG-2	95.12895	HG	CVAA	0.06	0.05	UG/G	8/11/95
PRSBKG-2	95.12895	SE	ETVAA	< 0.3		UG/G	8/15/95
PRSBKG-3	95.12896	AS	ETVAA	3.	0.6	UG/G	8/15/95
PRSBKG-3	95.12896	HG	CVAA	0.05	0.05	UG/G	8/11/95
PRSBKG-3	95.12896	SE	ETVAA	< 0.3		UG/G	8/15/95

CUSTOMER SAMPLE DUPLICATES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PRS16-010B1	95.12834	AS	ETVAA	3.	0.6	UG/G	8/14/95	08043051A
PRS16-010B1	95.12834	HG	CVAA	0.06	0.05	UG/G	8/11/95	
PRS16-010B1	95.12834	HG	CVAA	0.06	0.05	UG/G	8/11/95	
PRS16-010B1	95.12834	SE	ETVAA	0.2	0.1	UG/G	8/10/95	
PRS16-010B4	95.12835	HG	CVAA	0.5	0.05	UG/G	8/11/95	
PRS16-010B4	95.12835	HG	CVAA	0.6	0.06	UG/G	8/11/95	
PRS16-010B9	95.12836	HG	CVAA	0.05	0.05	UG/G	8/11/95	
PRS16-010B9	95.12836	HG	CVAA	0.06	0.05	UG/G	8/11/95	
PRS16-010B6	95.12837	HG	CVAA	0.1	0.05	UG/G	8/11/95	
PRS16-010B6	95.12837	HG	CVAA	0.3	0.05	UG/G	8/11/95	
PRS16-010B11	95.12838	HG	CVAA	0.06	0.05	UG/G	8/11/95	
PRS16-010B11	95.12838	HG	CVAA	0.07	0.05	UG/G	8/11/95	

PRS16-010B12	95.12839	HG	CVAA	0.05	0.05	UG/G	8/11/95
PRS16-010B12	95.12839	HG	CVAA	0.05	0.05	UG/G	8/11/95
PRS16-010B13	95.12840	HG	CVAA	0.06	0.05	UG/G	8/11/95
PRS16-010B13	95.12840	HG	CVAA	0.05	0.05	UG/G	8/11/95
PRS16-010B14	95.12841	HG	CVAA	0.2	0.05	UG/G	8/11/95
PRS16-010B14	95.12841	HG	CVAA	0.2	0.05	UG/G	8/11/95
PRS16-010J1	95.12842	HG	CVAA	0.06	0.05	UG/G	8/11/95
PRS16-010J1	95.12842	HG	CVAA	0.07	0.05	UG/G	8/11/95
PRS16-010J2	95.12843	HG	CVAA	0.08	0.05	UG/G	8/11/95
PRS16-010J2	95.12843	HG	CVAA	0.07	0.05	UG/G	8/11/95
PRS16-010J3	95.12844	HG	CVAA	0.05	0.05	UG/G	8/11/95
PRS16-010J3	95.12844	HG	CVAA	0.05	0.05	UG/G	8/11/95
PRS16-010J5	95.12846	HG	CVAA	0.08	0.05	UG/G	8/11/95
PRS16-010J5	95.12846	HG	CVAA	0.07	0.05	UG/G	8/11/95
PRS16-010J6	95.12847	AS	ETVAA	1.	0.5	UG/G	8/15/95
PRS16-010J6	95.12847	HG	CVAA	0.05	0.05	UG/G	8/11/95
PRS16-010J6	95.12847	HG	CVAA	0.05	0.05	UG/G	8/11/95
PRS16-010J6	95.12847	SE	ETVAA	< 0.3		UG/G	8/15/95
PRS16-010J7	95.12848	HG	CVAA	0.06	0.05	UG/G	8/11/95
PRS16-010J7	95.12848	HG	CVAA	0.07	0.05	UG/G	8/11/95
PRS16-010J8	95.12849	HG	CVAA	0.06	0.05	UG/G	8/11/95
PRS16-010J8	95.12849	HG	CVAA	< 0.05		UG/G	8/11/95
PRS16-010J9	95.12850	HG	CVAA	0.08	0.05	UG/G	8/11/95
PRS16-010J9	95.12850	HG	CVAA	0.06	0.05	UG/G	8/11/95
PRS16-010B2	95.12851	HG	CVAA	0.07	0.05	UG/G	8/11/95
PRS16-010B2	95.12851	HG	CVAA	0.07	0.05	UG/G	8/11/95
PRS16-010B8	95.12852	HG	CVAA	0.1	0.05	UG/G	8/11/95
PRS16-010B8	95.12852	HG	CVAA	0.09	0.05	UG/G	8/11/95
PRS16-010B15	95.12853	HG	CVAA	0.06	0.05	UG/G	8/11/95
PRS16-010B15	95.12853	HG	CVAA	0.05	0.05	UG/G	8/11/95
PRS16-010J10	95.12854	HG	CVAA	0.05	0.05	UG/G	8/11/95
PRS16-010J10	95.12854	HG	CVAA	< 0.05		UG/G	8/11/95
PRS16-010B3	95.12855	HG	CVAA	0.3	0.05	UG/G	8/11/95
PRS16-010B3	95.12855	HG	CVAA	0.3	0.05	UG/G	8/11/95
PRS16-010B5	95.12856	HG	CVAA	0.08	0.05	UG/G	8/11/95
PRS16-010B5	95.12856	HG	CVAA	0.09	0.05	UG/G	8/11/95
PRS16-010B10	95.12857	HG	CVAA	0.05	0.05	UG/G	8/11/95
PRS16-010B10	95.12857	HG	CVAA	0.08	0.05	UG/G	8/11/95
PRSBKG-1	95.12894	HG	CVAA	0.07	0.05	UG/G	8/11/95
PRSBKG-1	95.12894	HG	CVAA	0.07	0.05	UG/G	8/11/95
PRSBKG-2	95.12895	HG	CVAA	0.06	0.05	UG/G	8/11/95
PRSBKG-2	95.12895	HG	CVAA	0.06	0.05	UG/G	8/11/95
PRSBKG-3	95.12896	HG	CVAA	0.08	0.05	UG/G	8/11/95
PRSBKG-3	95.12896	HG	CVAA	0.08	0.05	UG/G	8/11/95

MATRIX SPIKES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT
PRS16-010B1	95.12834	AS	ETVAA	10.	12.	UG/G	8/14/95	08043051A
PRS16-010B1	95.12834	HG	CVAA	2.	1.9	UG/G	8/11/95	
PRS16-010B1	95.12834	SE	ETVAA	10.	6.	UG/G	8/10/95	
PRS16-010J6	95.12847	AS	ETVAA	10.	11.	UG/G	8/15/95	
PRS16-010J6	95.12847	SE	ETVAA	10.	7.	UG/G	8/15/95	

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PORT NUMBER: 37671 (continued)

********** CST QUALITY ASSURANCE REPORT *********

Prepared by: PEC on 16-Aug-1995

ST NUMBER: 22399 MATRIX: SS ANALYST: AAS

Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 PROGRAM CODE: WE5A

OK: CST9002 PAGE: 72

OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH

ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT
AS	142.	28.	MG/KG	128.	71.	8/15/95	UNDER CONTROL
S	128.	26.	MG/KG	128.	71.	8/15/95	UNDER CONTROL
G	4.4	0.4	MG/KG	4.85	2.4	8/11/95	UNDER CONTROL
G	4.6	0.5	MG/KG	4.85	2.4	8/11/95	UNDER CONTROL
	98.	20.	MG/KG	101.	55.	8/15/95	UNDER CONTROL
	5.	1.	MG/KG	101.	55.	8/15/95	UNDER CONTROL

ONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

LYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT
	97.	19.	UG/G	85.	5.	8/16/95	UNDER CONTROL
	0.2	0.1	UG/G	1.7	1.1	8/10/95	UNDER CONTROL
	100.	20.	UG/G	85.	5.	8/16/95	UNDER CONTROL
	1.	0.5	UG/G	1.7	1.1	8/15/95	UNDER CONTROL
	6.	0.6	UG/G	6.25	0.19	8/11/95	UNDER CONTROL

37671

PEC	PEC	R S Dorn	NK for MAG
Analyst	Reviewer	Team Leader	QA Officer
8/17/95	8/17/95	9/29/95	9/29/95
Date	Date	Date	Date

ancies Noted by Sample Management Section

REPORT NUMBER: 37813

********** CST ANALYTICAL REPORT **********

Prepared by: M. KOZUBAL on 24-Aug-1995

REQUEST NUMBER: 22399 MATRIX: SS ANALYST: OES PROGRAM CODE: WE5A

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950

NOTEBOOK: EM90126 PAGE: 60

CUSTOMER SAMPLES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PRS16-010B1	95.12834	AG	ICPES	< 1.		UG/G	8/24/95	
PRS16-010B1	95.12834	BA	ICPES	330.	33.	UG/G	8/24/95	
PRS16-010B1	95.12834	BE	ICPES	0.9	0.09	UG/G	8/24/95	
PRS16-010B1	95.12834	CD	ICPES	< 0.4		UG/G	8/24/95	
PRS16-010B1	95.12834	CR	ICPES	4.2	0.5	UG/G	8/24/95	
PRS16-010B1	95.12834	NI	ICPES	6.	4.	UG/G	8/24/95	
PRS16-010B4	95.12835	AG	ICPES	< 1.		UG/G	8/24/95	
PRS16-010B4	95.12835	BA	ICPES	9300.	930.	UG/G	8/24/95	
PRS16-010B4	95.12835	BE	ICPES	0.74	0.07	UG/G	8/24/95	
PRS16-010B4	95.12835	CD	ICPES	1.9	0.7	UG/G	8/24/95	
PRS16-010B4	95.12835	CR	ICPES	16.	2.	UG/G	8/24/95	
PRS16-010B4	95.12835	NI	ICPES	9.5	5.	UG/G	8/24/95	
PRS16-010B9	95.12836	AG	ICPES	< 1.		UG/G	8/24/95	
PRS16-010B9	95.12836	BA	ICPES	260.	26.	UG/G	8/24/95	
PRS16-010B9	95.12836	BE	ICPES	0.8	0.08	UG/G	8/24/95	
PRS16-010B9	95.12836	CD	ICPES	< 0.4		UG/G	8/24/95	
PRS16-010B9	95.12836	CR	ICPES	4.2	1.	UG/G	8/24/95	
PRS16-010B9	95.12836	NI	ICPES	5.5	3.	UG/G	8/24/95	
PRS16-010B6	95.12837	AG	ICPES	< 1.		UG/G	8/24/95	
PRS16-010B6	95.12837	BA	ICPES	8900.	890.	UG/G	8/24/95	
PRS16-010B6	95.12837	BE	ICPES	0.75	0.08	UG/G	8/24/95	
PRS16-010B6	95.12837	CD	ICPES	1.3	0.6	UG/G	8/24/95	
PRS16-010B6	95.12837	CR	ICPES	16.	2.	UG/G	8/24/95	
PRS16-010B6	95.12837	NI	ICPES	8.3	3.	UG/G	8/24/95	
PRS16-010B11	95.12838	AG	ICPES	< 1.		UG/G	8/24/95	
PRS16-010B11	95.12838	BA	ICPES	24000.	2400.	UG/G	8/24/95	
PRS16-010B11	95.12838	BE	ICPES	0.79	0.08	UG/G	8/24/95	
PRS16-010B11	95.12838	CD	ICPES	< 0.4		UG/G	8/24/95	
PRS16-010B11	95.12838	CR	ICPES	6.1	0.6	UG/G	8/24/95	
PRS16-010B11	95.12838	NI	ICPES	6.6	3.	UG/G	8/24/95	
PRS16-010B12	95.12839	AG	ICPES	< 1.		UG/G	8/24/95	
PRS16-010B12	95.12839	BA	ICPES	1800.	180.	UG/G	8/24/95	
PRS16-010B12	95.12839	BE	ICPES	0.63	0.08	UG/G	8/24/95	
PRS16-010B12	95.12839	CD	ICPES	< 0.4		UG/G	8/24/95	
PRS16-010B12	95.12839	CR	ICPES	4.1	0.9	UG/G	8/24/95	
PRS16-010B12	95.12839	NI	ICPES	6.2	3.	UG/G	8/24/95	
PRS16-010B13	95.12840	AG	ICPES	< 1.		UG/G	8/24/95	

PRS16-010B13	95.12840	BA	ICPES	1700.	170.	UG/G	8/24/95
PRS16-010B13	95.12840	BE	ICPES	0.68	0.08	UG/G	8/24/95
PRS16-010B13	95.12840	CD	ICPES	< 0.4		UG/G	8/24/95
PRS16-010B13	95.12840	CR	ICPES	6.3	0.9	UG/G	8/24/95
PRS16-010B13	95.12840	NI	ICPES	5.1	3.	UG/G	8/24/95
PRS16-010B14	95.12841	AG	ICPES	140.	14.	UG/G	8/24/95
PRS16-010B14	95.12841	BA	ICPES	2200.	220.	UG/G	8/24/95
PRS16-010B14	95.12841	BE	ICPES	1.1	0.1	UG/G	8/24/95
PRS16-010B14	95.12841	CD	ICPES	160.	16.	UG/G	8/24/95
PRS16-010B14	95.12841	CR	ICPES	650.	65.	UG/G	8/24/95
PRS16-010B14	95.12841	NI	ICPES	96.	10.	UG/G	8/24/95
PRS16-010J1	95.12842	AG	ICPES	< 1.		UG/G	8/24/95
PRS16-010J1	95.12842	BA	ICPES	190.	19.	UG/G	8/24/95
PRS16-010J1	95.12842	BE	ICPES	0.51	0.08	UG/G	8/24/95
PRS16-010J1	95.12842	CD	ICPES	0.54	0.4	UG/G	8/24/95
PRS16-010J1	95.12842	CR	ICPES	4.9	0.5	UG/G	8/24/95
PRS16-010J1	95.12842	NI	ICPES	5.5	3.	UG/G	8/24/95
PRS16-010J2	95.12843	AG	ICPES	< 1.		UG/G	8/24/95
PRS16-010J2	95.12843	BA	ICPES	170.	17.	UG/G	8/24/95
PRS16-010J2	95.12843	BE	ICPES	1.	0.1	UG/G	8/24/95
PRS16-010J2	95.12843	CD	ICPES	0.58	0.4	UG/G	8/24/95
PRS16-010J2	95.12843	CR	ICPES	26.	3.	UG/G	8/24/95
PRS16-010J2	95.12843	NI	ICPES	7.6	3.	UG/G	8/24/95
PRS16-010J3	95.12844	AG	ICPES	< 1.		UG/G	8/24/95
PRS16-010J3	95.12844	BA	ICPES	120.	12.	UG/G	8/24/95
PRS16-010J3	95.12844	BE	ICPES	0.81	0.08	UG/G	8/24/95
PRS16-010J3	95.12844	CD	ICPES	< 0.4		UG/G	8/24/95
PRS16-010J3	95.12844	CR	ICPES	6.5	0.7	UG/G	8/24/95
PRS16-010J3	95.12844	NI	ICPES	6.4	6.	UG/G	8/24/95
PRS16-010J5	95.12846	AG	ICPES	< 1.		UG/G	8/24/95
PRS16-010J5	95.12846	BA	ICPES	1400.	140.	UG/G	8/24/95
PRS16-010J5	95.12846	BE	ICPES	0.92	0.09	UG/G	8/24/95
PRS16-010J5	95.12846	CD	ICPES	0.49	0.41	UG/G	8/24/95
PRS16-010J5	95.12846	CR	ICPES	5.8	1.3	UG/G	8/24/95
PRS16-010J5	95.12846	NI	ICPES	5.3	4.	UG/G	8/24/95
PRS16-010J6	95.12847	AG	ICPES	< 2.		UG/G	8/24/95
PRS16-010J6	95.12847	BA	ICPES	130.	13.	UG/G	8/24/95
PRS16-010J6	95.12847	BE	ICPES	0.49	0.08	UG/G	8/24/95
PRS16-010J6	95.12847	CD	ICPES	< 0.4		UG/G	8/24/95
PRS16-010J6	95.12847	CR	ICPES	10.	1.	UG/G	8/24/95
PRS16-010J6	95.12847	NI	ICPES	< 4.		UG/G	8/24/95
PRS16-010J7	95.12848	AG	ICPES	< 2.		UG/G	8/24/95
PRS16-010J7	95.12848	BA	ICPES	370.	37.	UG/G	8/24/95
PRS16-010J7	95.12848	BE	ICPES	0.67	0.08	UG/G	8/24/95
PRS16-010J7	95.12848	CD	ICPES	0.87	0.86	UG/G	8/24/95
PRS16-010J7	95.12848	CR	ICPES	16.	2.	UG/G	8/24/95
PRS16-010J7	95.12848	NI	ICPES	< 2.		UG/G	8/24/95
PRS16-010J8	95.12849	AG	ICPES	< 2.		UG/G	8/24/95
PRS16-010J8	95.12849	BA	ICPES	310.	31.	UG/G	8/24/95
PRS16-010J8	95.12849	BE	ICPES	0.39	0.08	UG/G	8/24/95
PRS16-010J8	95.12849	CD	ICPES	< 0.4		UG/G	8/24/95
PRS16-010J8	95.12849	CR	ICPES	6.6	0.9	UG/G	8/24/95
PRS16-010J8	95.12849	NI	ICPES	< 2.		UG/G	8/24/95
PRS16-010J9	95.12850	AG	ICPES	< 2.		UG/G	8/24/95
PRS16-010J9	95.12850	BA	ICPES	110.	11.	UG/G	8/24/95
PRS16-010J9	95.12850	BE	ICPES	< 0.08		UG/G	8/24/95
PRS16-010J9	95.12850	CD	ICPES	0.79	0.5	UG/G	8/24/95
PRS16-010J9	95.12850	CR	ICPES	11.	1.	UG/G	8/24/95
PRS16-010J9	95.12850	NI	ICPES	< 2.		UG/G	8/24/95
PRS16-010B2	95.12851	AG	ICPES	< 2.		UG/G	8/24/95

PRS16-010B2	95.12851	BA	ICPES	3400.	340.	UG/G	8/24/95
PRS16-010B2	95.12851	BE	ICPES	0.6	0.06	UG/G	8/24/95
PRS16-010B2	95.12851	CD	ICPES	0.65	0.4	UG/G	8/24/95
PRS16-010B2	95.12851	CR	ICPES	8.8	0.9	UG/G	8/24/95
PRS16-010B2	95.12851	NI	ICPES	< 2.		UG/G	8/24/95
PRS16-010B8	95.12852	AG	ICPES	< 2.		UG/G	8/24/95
PRS16-010B8	95.12852	BA	ICPES	1300.	130.	UG/G	8/24/95
PRS16-010B8	95.12852	BE	ICPES	0.58	0.08	UG/G	8/24/95
PRS16-010B8	95.12852	CD	ICPES	< 0.7		UG/G	8/24/95
PRS16-010B8	95.12852	CR	ICPES	10.	1.	UG/G	8/24/95
PRS16-010B8	95.12852	NI	ICPES	< 2.		UG/G	8/24/95
PRS16-010B15	95.12853	AG	ICPES	< 2.		UG/G	8/24/95
PRS16-010B15	95.12853	BA	ICPES	3600.	360.	UG/G	8/24/95
PRS16-010B15	95.12853	BE	ICPES	0.61	0.06	UG/G	8/24/95
PRS16-010B15	95.12853	CD	ICPES	< 0.4		UG/G	8/24/95
PRS16-010B15	95.12853	CR	ICPES	7.4	0.7	UG/G	8/24/95
PRS16-010B15	95.12853	NI	ICPES	< 2.		UG/G	8/24/95
PRS16-010J10	95.12854	AG	ICPES	< 2.		UG/G	8/24/95
PRS16-010J10	95.12854	BA	ICPES	42.	4.	UG/G	8/24/95
PRS16-010J10	95.12854	BE	ICPES	< 0.08		UG/G	8/24/95
PRS16-010J10	95.12854	CD	ICPES	< 0.4		UG/G	8/24/95
PRS16-010J10	95.12854	CR	ICPES	3.	1.	UG/G	8/24/95
PRS16-010J10	95.12854	NI	ICPES	< 2.		UG/G	8/24/95
PRS16-010B3	95.12855	AG	ICPES	4.1	2.	UG/G	8/24/95
PRS16-010B3	95.12855	BA	ICPES	13000.	1300.	UG/G	8/24/95
PRS16-010B3	95.12855	BE	ICPES	0.39	0.08	UG/G	8/24/95
PRS16-010B3	95.12855	CD	ICPES	1.8	0.7	UG/G	8/24/95
PRS16-010B3	95.12855	CR	ICPES	15.	2.	UG/G	8/24/95
PRS16-010B3	95.12855	NI	ICPES	< 2.		UG/G	8/24/95
PRS16-010B5	95.12856	AG	ICPES	< 2.		UG/G	8/24/95
PRS16-010B5	95.12856	BA	ICPES	11000.	1100.	UG/G	8/24/95
PRS16-010B5	95.12856	BE	ICPES	0.47	0.08	UG/G	8/24/95
PRS16-010B5	95.12856	CD	ICPES	1.	0.6	UG/G	8/24/95
PRS16-010B5	95.12856	CR	ICPES	10.	1.	UG/G	8/24/95
PRS16-010B5	95.12856	NI	ICPES	< 2.		UG/G	8/24/95
PRS16-010B10	95.12857	AG	ICPES	2.4	2.	UG/G	8/24/95
PRS16-010B10	95.12857	BA	ICPES	2800.	280.	UG/G	8/24/95
PRS16-010B10	95.12857	BE	ICPES	0.52	0.08	UG/G	8/24/95
PRS16-010B10	95.12857	CD	ICPES	0.52	0.4	UG/G	8/24/95
PRS16-010B10	95.12857	CR	ICPES	6.7	1.3	UG/G	8/24/95
PRS16-010B10	95.12857	NI	ICPES	< 2.		UG/G	8/24/95
PRSBKG-1	95.12894	AG	ICPES	< 2.		UG/G	8/24/95
PRSBKG-1	95.12894	BA	ICPES	130.	13.	UG/G	8/24/95
PRSBKG-1	95.12894	BE	ICPES	0.32	0.08	UG/G	8/24/95
PRSBKG-1	95.12894	CD	ICPES	< 0.4		UG/G	8/24/95
PRSBKG-1	95.12894	CR	ICPES	8.1	0.8	UG/G	8/24/95
PRSBKG-1	95.12894	NI	ICPES	< 2.		UG/G	8/24/95
PRSBKG-2	95.12895	AG	ICPES	< 2.		UG/G	8/24/95
PRSBKG-2	95.12895	BA	ICPES	100.	10.	UG/G	8/24/95
PRSBKG-2	95.12895	BE	ICPES	0.36	0.08	UG/G	8/24/95
PRSBKG-2	95.12895	CD	ICPES	< 0.4		UG/G	8/24/95
PRSBKG-2	95.12895	CR	ICPES	5.1	0.5	UG/G	8/24/95
PRSBKG-2	95.12895	NI	ICPES	< 2.		UG/G	8/24/95
PRSBKG-3	95.12896	AG	ICPES	< 2.		UG/G	8/24/95
PRSBKG-3	95.12896	BA	ICPES	310.	31.	UG/G	8/24/95
PRSBKG-3	95.12896	BE	ICPES	0.43	0.08	UG/G	8/24/95
PRSBKG-3	95.12896	CD	ICPES	< 0.4		UG/G	8/24/95
PRSBKG-3	95.12896	CR	ICPES	6.2	1.	UG/G	8/24/95
PRSBKG-3	95.12896	NI	ICPES	< 2.		UG/G	8/24/95

CUSTOMER SAMPLE DUPLICATES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PRS16-010B1	95.12834	AG	ICPES	< 1.		UG/G	8/24/95	
PRS16-010B1	95.12834	BA	ICPES	280.	28.	UG/G	8/24/95	
PRS16-010B1	95.12834	BE	ICPES	0.92	0.09	UG/G	8/24/95	
PRS16-010B1	95.12834	CD	ICPES	< 0.4		UG/G	8/24/95	
PRS16-010B1	95.12834	CR	ICPES	5.2	0.5	UG/G	8/24/95	
PRS16-010B1	95.12834	NI	ICPES	5.7	3.	UG/G	8/24/95	
PRS16-010J6	95.12847	AG	ICPES	< 2.		UG/G	8/24/95	
PRS16-010J6	95.12847	BA	ICPES	120.	12.	UG/G	8/24/95	
PRS16-010J6	95.12847	BE	ICPES	0.49	0.08	UG/G	8/24/95	
PRS16-010J6	95.12847	CD	ICPES	< 0.4		UG/G	8/24/95	
PRS16-010J6	95.12847	CR	ICPES	8.	0.9	UG/G	8/24/95	
PRS16-010J6	95.12847	NI	ICPES	< 2.		UG/G	8/24/95	

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REPORT NUMBER: 37813 (continued)

********** CST QUALITY ASSURANCE REPORT *********

Prepared by: M. KOZUBAL on 24-Aug-1995

REQUEST NUMBER: 22399 MATRIX: SS ANALYST: OES PROGRAM CODE: WE5A

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950

NOTEBOOK: EM90126 PAGE: 60

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT
00.30469	AG	25.	3.	MG/KG	92.5	49.5	8/24/95	UNDER CONTROL
00.30469	AG	9.	2.	MG/KG	92.5	49.5	8/24/95	UNDER CONTROL
00.30469	BA	290.	29.	MG/KG	276.	82.5	8/24/95	UNDER CONTROL
00.30469	BA	270.	27.	MG/KG	276.	82.5	8/24/95	UNDER CONTROL
00.30469	BE	93.	10.	MG/KG	95.1	43.	8/24/95	UNDER CONTROL
00.30469	BE	96.	10.	MG/KG	95.1	43.	8/24/95	UNDER CONTROL
00.30469	CD	96.	10.	MG/KG	102.	56.5	8/24/95	UNDER CONTROL
00.30469	CD	95.	10.	MG/KG	102.	56.5	8/24/95	UNDER CONTROL
00.30469	CR	160.	16.	MG/KG	154.	73.	8/24/95	UNDER CONTROL
00.30469	CR	160.	16.	MG/KG	154.	73.	8/24/95	UNDER CONTROL
00.30469	NI	150.	15.	MG/KG	163.	85.5	8/24/95	UNDER CONTROL
00.30469	NI	160.	16.	MG/KG	163.	85.5	8/24/95	UNDER CONTROL

SUMMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT
95.12897	AG	< 1.		UG/G	4.64	2.27	8/24/95	UNDER CONTROL
95.12897	BA	180.	18.	UG/G	210.	10.	8/24/95	UNDER CONTROL
95.12897	BE	1.2	0.1	UG/G	1.02	0.22	8/24/95	UNDER CONTROL
95.12897	CD	33.	3.	UG/G	38.	2.	8/24/95	UNDER CONTROL
95.12897	CR	18.	2.	UG/G	23.5	3.5	8/24/95	UNDER CONTROL
95.12897	NI	16.	3.	UG/G	16.	4.	8/24/95	UNDER CONTROL
95.12898	AG	< 2.		UG/G	4.64	2.27	8/24/95	UNDER CONTROL
95.12898	BA	190.	19.	UG/G	210.	10.	8/24/95	UNDER CONTROL
95.12898	BE	1.1	0.1	UG/G	1.02	0.22	8/24/95	UNDER CONTROL
95.12898	CD	36.	4.	UG/G	38.	2.	8/24/95	UNDER CONTROL
95.12898	CR	24.	2.	UG/G	23.5	3.5	8/24/95	UNDER CONTROL
95.12898	NI	11.	4.	UG/G	16.	4.	8/24/95	UNDER CONTROL

REPORT NUMBER: 37813

Analyst	Reviewer	Team Leader	QA Officer
			NK for MAG
8-24-95	8-24-95	9/29/95	9/29/95
Date	Date	Date	Date

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1992,' LA-12790-MS, Vol. I, pp. 19-20.

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REPORT NUMBER: 38474

********** CST ANALYTICAL REPORT **********

Prepared by: MKOBY on 28-Sep-1995

REQUEST NUMBER: 22399 MATRIX: SS ANALYST: IMS PROGRAM CODE: WE5A

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950

NOTEBOOK: PAGE:

CUSTOMER SAMPLES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PRS16-010B1	95.12834	PB	ICPMS	9.92	0.87	UG/G	9/28/95	
PRS16-010B1	95.12834	SB	ICPMS	< 0.25		UG/G	9/28/95	
PRS16-010B1	95.12834	TL	ICPMS	0.37	0.25	UG/G	9/28/95	
PRS16-010B1	95.12834	U	ICPMS	1.36	0.25	UG/G	9/28/95	
PRS16-010B4	95.12835	PB	ICPMS	82.8	2.5	UG/G	9/28/95	
PRS16-010B4	95.12835	SB	ICPMS	< 0.25		UG/G	9/28/95	
PRS16-010B4	95.12835	TL	ICPMS	0.62	0.25	UG/G	9/28/95	
95.12836	95.12836	PB	ICPMS	25.5	2.2	UG/G	9/28/95	
95.12836	95.12836	SB	ICPMS	< 0.25		UG/G	9/28/95	
95.12836	95.12836	TL	ICPMS	0.75	0.25	UG/G	9/28/95	
95.12836	95.12836	U	ICPMS	0.63	0.25	UG/G	9/28/95	
PRS16-010B6	95.12837	PB	ICPMS	622.	16.	UG/G	9/28/95	
PRS16-010B6	95.12837	SB	ICPMS	< 0.25		UG/G	9/28/95	
PRS16-010B6	95.12837	TL	ICPMS	0.38	0.25	UG/G	9/28/95	
PRS16-010B11	95.12838	PB	ICPMS	17.2	1.7	UG/G	9/28/95	
PRS16-010B11	95.12838	SB	ICPMS	< 0.25		UG/G	9/28/95	
PRS16-010B11	95.12838	TL	ICPMS	0.25	0.25	UG/G	9/28/95	
PRS16-010B11	95.12838	U	ICPMS	0.62	0.25	UG/G	9/28/95	
PRS16-010B12	95.12839	PB	ICPMS	11.	1.	UG/G	9/28/95	
PRS16-010B12	95.12839	SB	ICPMS	< 0.25		UG/G	9/28/95	
PRS16-010B12	95.12839	TL	ICPMS	< 0.25		UG/G	9/28/95	
PRS16-010B12	95.12839	U	ICPMS	0.25	0.25	UG/G	9/28/95	
PRS16-010B13	95.12840	PB	ICPMS	5.95	0.37	UG/G	9/28/95	
PRS16-010B13	95.12840	SB	ICPMS	< 0.25		UG/G	9/28/95	
PRS16-010B13	95.12840	TL	ICPMS	< 0.25		UG/G	9/28/95	
PRS16-010B14	95.12841	PB	ICPMS	8230.	570.	UG/G	9/28/95	
PRS16-010B14	95.12841	SB	ICPMS	11.4	1.2	UG/G	9/28/95	
PRS16-010B14	95.12841	TL	ICPMS	< 1.24		UG/G	9/28/95	
PRS16-010B14	95.12841	U	ICPMS	1.61	1.24	UG/G	9/28/95	
PRS16-010J1	95.12842	PB	ICPMS	33.5	1.2	UG/G	9/28/95	
PRS16-010J1	95.12842	SB	ICPMS	< 0.25		UG/G	9/28/95	
PRS16-010J1	95.12842	TL	ICPMS	< 0.25		UG/G	9/28/95	
PRS16-010J2	95.12843	PB	ICPMS	26.3	1.9	UG/G	9/28/95	
PRS16-010J2	95.12843	SB	ICPMS	< 0.25		UG/G	9/28/95	
PRS16-010J2	95.12843	TL	ICPMS	< 0.25		UG/G	9/28/95	
PRS16-010J3	95.12844	PB	ICPMS	10.	1.	UG/G	9/28/95	
PRS16-010J3	95.12844	SB	ICPMS	< 0.25		UG/G	9/28/95	

PRS16-010J3	95.12844	TL	ICPMS	< 0.25		UG/G	9/28/95
PRS16-010J5	95.12846	PB	ICPMS	13.9	1.2	UG/G	9/28/95
PRS16-010J5	95.12846	SB	ICPMS	< 0.25		UG/G	9/28/95
PRS16-010J5	95.12846	TL	ICPMS	< 0.25		UG/G	9/28/95
PRS16-010J6	95.12847	PB	ICPMS	13.8	1.5	UG/G	9/22/95
PRS16-010J6	95.12847	SB	ICPMS	< 0.25		UG/G	9/22/95
PRS16-010J6	95.12847	TL	ICPMS	0.25	0.25	UG/G	9/22/95
PRS16-010J7	95.12848	PB	ICPMS	68.4	3.6	UG/G	9/22/95
PRS16-010J7	95.12848	SB	ICPMS	< 0.25		UG/G	9/22/95
PRS16-010J7	95.12848	TL	ICPMS	< 0.25		UG/G	9/22/95
PRS16-010J8	95.12849	PB	ICPMS	7.81	0.74	UG/G	9/22/95
PRS16-010J8	95.12849	SB	ICPMS	< 0.25		UG/G	9/22/95
PRS16-010J8	95.12849	TL	ICPMS	< 0.25		UG/G	9/22/95
PRS16-010J9	95.12850	PB	ICPMS	30.6	1.4	UG/G	9/22/95
PRS16-010J9	95.12850	SB	ICPMS	< 0.25		UG/G	9/22/95
PRS16-010J9	95.12850	TL	ICPMS	< 0.25		UG/G	9/22/95
PRS16-010B2	95.12851	PB	ICPMS	20.	2.	UG/G	9/22/95
PRS16-010B2	95.12851	SB	ICPMS	< 0.25		UG/G	9/22/95
PRS16-010B2	95.12851	TL	ICPMS	< 0.25		UG/G	9/22/95
PRS16-010B8	95.12852	PB	ICPMS	20.5	0.8	UG/G	9/22/95
PRS16-010B8	95.12852	SB	ICPMS	< 0.25		UG/G	9/22/95
PRS16-010B8	95.12852	TL	ICPMS	0.5	0.3	UG/G	9/22/95
PRS16-010B8	95.12852	U	ICPMS	0.75	0.25	UG/G	9/28/95
PRS16-010B15	95.12853	PB	ICPMS	17.5	1.7	UG/G	9/22/95
PRS16-010B15	95.12853	SB	ICPMS	< 0.25		UG/G	9/22/95
PRS16-010B15	95.12853	TL	ICPMS	< 0.25		UG/G	9/22/95
PRS16-010J10	95.12854	PB	ICPMS	7.44	0.74	UG/G	9/22/95
PRS16-010J10	95.12854	SB	ICPMS	< 0.25		UG/G	9/22/95
PRS16-010J10	95.12854	TL	ICPMS	< 0.25		UG/G	9/22/95
PRS16-010B3	95.12855	PB	ICPMS	59.6	2.5	UG/G	9/22/95
PRS16-010B3	95.12855	SB	ICPMS	< 0.25		UG/G	9/22/95
PRS16-010B3	95.12855	TL	ICPMS	0.25	0.25	UG/G	9/22/95
PRS16-010B3	95.12855	U	ICPMS	1.12	0.25	UG/G	9/28/95
PRS16-010B5	95.12856	PB	ICPMS	24.8	2.5	UG/G	9/22/95
PRS16-010B5	95.12856	SB	ICPMS	< 0.25		UG/G	9/22/95
PRS16-010B5	95.12856	TL	ICPMS	< 0.25		UG/G	9/22/95
PRS16-010B10	95.12857	PB	ICPMS	23.6	2.5	UG/G	9/22/95
PRS16-010B10	95.12857	SB	ICPMS	< 0.25		UG/G	9/22/95
PRS16-010B10	95.12857	TL	ICPMS	0.62	0.25	UG/G	9/22/95
PRSBKG-1	95.12894	PB	ICPMS	11.8	1.1	UG/G	9/22/95
PRSBKG-1	95.12894	SB	ICPMS	< 0.25		UG/G	9/22/95
PRSBKG-1	95.12894	TL	ICPMS	< 0.25		UG/G	9/22/95
PRSBKG-1	95.12894	U	ICPMS	1.87	0.37	UG/G	9/28/95
PRSBKG-2	95.12895	PB	ICPMS	10.	1.	UG/G	9/22/95
PRSBKG-2	95.12895	SB	ICPMS	< 0.25		UG/G	9/22/95
PRSBKG-2	95.12895	TL	ICPMS	< 0.25		UG/G	9/22/95
PRSBKG-2	95.12895	U	ICPMS	2.85	0.62	UG/G	9/22/95
PRSBKG-3	95.12896	PB	ICPMS	16.1	1.6	UG/G	9/22/95
PRSBKG-3	95.12896	SB	ICPMS	< 0.25		UG/G	9/22/95
PRSBKG-3	95.12896	TL	ICPMS	< 0.25		UG/G	9/22/95
PRSBKG-3	95.12896	U	ICPMS	2.6	0.5	UG/G	9/22/95

CUSTOMER SAMPLE DUPLICATES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PRS16-010B1	95.12834	PB	ICPMS	9.5	0.9	UG/G	9/28/95	
PRS16-010B1	95.12834	SB	ICPMS	< 0.25		UG/G	9/28/95	

PRS16-010B1	95.12834	TL	ICPMS	0.25	0.25	UG/G	9/28/95
PRS16-010B1	95.12834	U	ICPMS	0.63	0.25	UG/G	9/28/95
PRS16-010J6	95.12847	PB	ICPMS	10.8	1.5	UG/G	9/22/95
PRS16-010J6	95.12847	SB	ICPMS	< 0.25		UG/G	9/22/95
PRS16-010J6	95.12847	TL	ICPMS	< 0.25		UG/G	9/22/95

MATRIX SPIKES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT
92.12847	92.12847	U	ICPMS	6.2	8.6	UG/G	9/28/95	
PRS16-010B1	95.12834	PB	ICPMS	99.	121.	UG/G	9/28/95	
PRS16-010B1	95.12834	SB	ICPMS	6.2		UG/G	9/28/95	SPIKE DEGRADED
PRS16-010B1	95.12834	TL	ICPMS	6.2	6.4	UG/G	9/28/95	
PRS16-010B1	95.12834	U	ICPMS	6.2	6.	UG/G	9/28/95	
PRS16-010J6	95.12847	PB	ICPMS	99.2	60.2	UG/G	9/28/95	
PRS16-010J6	95.12847	SB	ICPMS	6.2		UG/G	9/28/95	SPIKE DEGRADED
PRS16-010J6	95.12847	TL	ICPMS	6.2	5.3	UG/G	9/28/95	

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REPORT NUMBER: 38474 (continued)

********** CST QUALITY ASSURANCE REPORT *********

Prepared by: MKOBY on 28-Sep-1995

REQUEST NUMBER: 22399 MATRIX: SS ANALYST: IMS PROGRAM CODE: WE5A

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950

NOTEBOOK: PAGE:

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT
00.30469	PB	159.	14.	MG/KG	147.	73.5	9/28/95	UNDER CONTROL
00.30469	PB	160.	10.	MG/KG	147.	73.5	9/22/95	UNDER CONTROL
00.30469	SB	2.6	0.4	MG/KG	43.9	93.5	9/22/95	UNDER CONTROL
00.30469	SB	4.25	0.75	MG/KG	43.9	93.5	9/28/95	UNDER CONTROL
00.30469	TL	109.	7.	MG/KG	102.	50.5	9/22/95	UNDER CONTROL
00.30469	TL	108.	9.	MG/KG	102.	50.5	9/28/95	UNDER CONTROL

SUMMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT
95.12897	PB	1060.	20.	UG/G	1225.	275.	9/28/95	UNDER CONTROL
95.12897	SB	< 1.24		UG/G	6.6	3.9	9/28/95	UNDER CONTROL
95.12897	TL	1.86	1.24	UG/G	2.4	1.	9/28/95	UNDER CONTROL
95.12898	PB	1049.	24.	UG/G	1225.	275.	9/22/95	UNDER CONTROL
95.12898	SB	< 0.25		UG/G	6.6	3.9	9/22/95	UNDER CONTROL
95.12898	TL	1.74	0.25	UG/G	2.4	1.	9/22/95	UNDER CONTROL
95.12899	U	0.99	0.25	UG/G	3.13	0.13	9/28/95	OUT OF CONTROL

The following analyst QC's have no CV data for comparison

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
00.30469	00.30469	U	1.13	0.25	UG/G	9/28/95	NO DATA AVAIL.

00.30469	00.30469 U	1.24	0.25	UG/G	9/22/95	NO DATA AVAIL.

REPORT NUMBER: 38474

Analyst	Reviewer	Team Leader	QA Officer
9/28/95	9/28/95	9/29/95	9/29/95
Date	Date	Date	Date

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1992,' LA-12790-MS, Vol. I, pp. 19-20.

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CST-12 ORGANIC ANALYSIS GROUP
SUMMARY OF ANALYTICAL RESULTS FOR VOLATILES

TO: Ron Conrad **DATE:** September 27, 1995
FROM: Anthony Lombardo, CST-12 Organic Analysis Team Leader
TL 9/23/95

MATRIX: SOIL **REQUEST NUMBER: 22393**

Results Summary
Attached is a tabulation of samples submitted for volatiles analysis and a summary of their analytical results (target compounds found and their concentrations; see Table 1). The samples, collected on July 31, 1995, were analyzed on August 3,9,10, and 11, 1995.

Method Summary
Samples were analyzed using EPA Method 8260. In summary, a measured amount of sample, usually 5 grams, was analyzed using the purge and trap method combined with capillary column GC/MS. A Delta Perspective PTA-30 Autosampler and a Tekmar 3000 Purge and Trap Concentrator were interfaced to a Hewlett-Packard 5890 Gas Chromatograph / 5971 Mass Selective Detector to perform the analyses. The analytical column used was a J&W Scientific 75 m by 0.53 mm ID, 3 micron film, DB624 capillary column.

Anomalies And Analysis Notes
Below is a summary of required QA/QC parameters as outlined in EPA SW-846 and LANL SOPs and a summary of any anomalies which occured during the analyses.

Samples 95.12835, 95.12841, 95.12850: Internal standard response and surrogate recoveries did not meet criteria for these analyses. The samples were re-analyzed; similar results were obtained, indicating matrix interference.

Calibration QC were within criteria for all analyses.

Matrix spike and matrix spike duplicate were analyzed using samples from this work request. All spike recoveries and relative percent differences were within criteria. A copy of the MS/MSD recovery form is included with this report.

Holding times were met for all sample analyses.

If you have any questions regarding this data, please call either Michael Guttman or Anthony Lombardo at 665-7410.

S- sets Burning grounds samples

CST-12 ORGANIC ANALYSIS GROUP
SUMMARY OF ANALYTICAL RESULTS FOR VOLATILES

Table 1. Summary of results of sample analyses for volatiles.

REQUEST NUMBER: 22393 TL 9/28/95

SAMPLE ID			TARGET COMPOUNDS FOUND		AMOUNT (ug/Kg)	LOQ (ug/Kg)	TICs
B95.12867	Blank		Acetone	Lab contam	8 J	20	N
			2-Butanone		7 J	20	
B95.12868	Blank		2-Hexanone		5 J	5	N
B95.vblk03	Blank		2-Hexanone		7 J	20	N
B95.			Acetone		25	20	N
16-010-			2-Butanone		9 J	20	
S95.12834	B1	TCND	Acetone	Lab. contam	9 JB	20	N
			2-Butanone		6 JB	20	
S95.12835	B4	"	Acetone	"	13 JB	20	N
			2-Butanone		6 JB	20	
S95.12837	B6	"	Acetone	"	12 JB	20	N
			2-Butanone	"	5 JB	20	
S95.12838	B11	"	Acetone		9 JB	20	N
			2-Butanone	"	6 JB	20	
S95.12839	B12	"	Acetone		8 JB	20	N
			2-Butanone	"	5 JB	20	
S95.12840	B13	"	Acetone		37 B	20	N
			2-Butanone		9 JB	20	
S95.12841	B14		Acetone	"	64 B	20	N
	Report benz + tol. present		2-Butanone		9 JB	20	
			Benzene		16	5	
			Toluene		6	5	
16-010-			Ethylbenzene		4 J	5	
S95.12842	J1	TCND	NONE			5	N
S95.12843	J2	TCND	NONE			5	N
S95.12844	J3	TCND	NONE			5	N
S95.12845	J4	TCND	NONE			5	N
S95.12846	J5	TCND	NONE			5	N
S95.12847	J6	TCND	Acetone		21 JB	20	N
			2-Butanone		7 JB	20	
S95.12848	J7	TCND	NONE			5	N
S95.12849	J8	TCND	NONE			5	N
S95.12850	J9		Acetone		39	20	Y
	Compounds detected		2-Butanone		8 J	20	
			Benzene		3 J	5	

REQUEST NUMBER: 22393

SAMPLE ID	TARGET COMPOUNDS FOUND	AMOUNT (ug/Kg)	LOQ (ug/Kg)	TICs
	1,2-Dichloroethane	3 J	5	
	4-Methyl-2-Pentanone	6 J	20	
	2-Butanone	8 J	20	
	Toluene	2 J	5	
	Tetrachloroethene	5 J	5	
	2-Hexanone	7 J	20	
	o,m,p-Xylene (mixed)	12	5	
	1,3,5-Trimethylbenzene	11	5	
	1,2,4-Trimethylbenzene	3 J	5	
S95.12854 J/O	TCND NONE		5	N
S95.12856 BS	TCND NONE		5	N

Sample IDs beginning with the letter S are samples; those beginning with the letter B are blanks.

LOQ: Limit of quantitation. LOQs normally range between 5 and 20ug/Kg depending on the compound, unless otherwise noted.

TICs: Tentatively identified compounds. Y = TICs were found. N = TICs were not found.

J: Estimated value. This usually indicates that the compound was seen at less tah LOQ.

B: Compound was also seen in the corresponding blank. Concentration of the compound is considered significant if it is 10 times blank amount for common laboratory contaminants or 5 times blank amount for all other target compounds.

R 9/28/95

LOS ALAMOS NATIONAL LABORATORY
CST-12 ORGANIC ANALYSIS GROUP

DATA REVIEW CERTIFICATION

Request Number: 22393 Analysis: VOLATILES BY EPA 8260

The data contained in the enclosed report has been reviewed and approved by the people listed below:

LAURA C. ORTEGA		9/28/95
Analyst Name (print)	Analyst Signature	Date
Anthony Lombardo		9/28/95
Data Reviewer Name (print)	Data Reviewer Signature	Date

********** CST ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: B080311 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12834 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/03/95 Date Analyzed: 8/03/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B1	95.12834	67641	< 22.		UG/KG	9/28/95		Acetone
PRS16-010B1	95.12834	71432	< 5.		UG/KG	9/28/95		Benzene
PRS16-010B1	95.12834	108861	< 5.		UG/KG	9/28/95		Bromobenzene
PRS16-010B1	95.12834	74975	< 5.		UG/KG	9/28/95		Bromochloromethane
PRS16-010B1	95.12834	75274	< 5.		UG/KG	9/28/95		Bromodichloromethane
PRS16-010B1	95.12834	75252	< 5.		UG/KG	9/28/95		Bromoform
PRS16-010B1	95.12834	74839	< 11.		UG/KG	9/28/95		Bromomethane
PRS16-010B1	95.12834	78933	< 22.		UG/KG	9/28/95		2-Butanone
PRS16-010B1	95.12834	104518	< 5.		UG/KG	9/28/95		n-Butylbenzene
PRS16-010B1	95.12834	135988	< 5.		UG/KG	9/28/95		sec-Butylbenzene
PRS16-010B1	95.12834	98066	< 5.		UG/KG	9/28/95		tert-Butylbenzene
PRS16-010B1	95.12834	75150	< 5.		UG/KG	9/28/95		Carbon disulfide
PRS16-010B1	95.12834	56235	< 5.		UG/KG	9/28/95		Carbon tetrachloride
PRS16-010B1	95.12834	108907	< 5.		UG/KG	9/28/95		Chlorobenzene
PRS16-010B1	95.12834	124481	< 5.		UG/KG	9/28/95		Chlorodibromomethane
PRS16-010B1	95.12834	75003	< 11.		UG/KG	9/28/95		Chloroethane
PRS16-010B1	95.12834	67663	< 5.		UG/KG	9/28/95		Chloroform
PRS16-010B1	95.12834	74873	< 11.		UG/KG	9/28/95		Chloromethane
PRS16-010B1	95.12834	95498	< 5.		UG/KG	9/28/95		o-Chlorotoluene
PRS16-010B1	95.12834	106434	< 5.		UG/KG	9/28/95		p-Chlorotoluene
PRS16-010B1	95.12834	96128	< 11.		UG/KG	9/28/95		1,2-Dibromo-3-chloropropane
PRS16-010B1	95.12834	74953	< 5.		UG/KG	9/28/95		Dibromomethane
PRS16-010B1	95.12834	95501	< 5.		UG/KG	9/28/95		o-Dichlorobenzene (1,2)
PRS16-010B1	95.12834	541731	< 5.		UG/KG	9/28/95		m-Dichlorobenzene (1,3)
PRS16-010B1	95.12834	106467	< 5.		UG/KG	9/28/95		p-Dichlorobenzene (1,4)
PRS16-010B1	95.12834	75718	< 11.		UG/KG	9/28/95		Dichlorodifluoromethane

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B1	95.12834	75343	< 5.		UG/KG	9/28/95		1,1-Dichloroethane
PRS16-010B1	95.12834	107062	< 5.		UG/KG	9/28/95		1,2-Dichloroethane
PRS16-010B1	95.12834	75354	< 5.		UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010B1	95.12834	156605	< 5.		UG/KG	9/28/95		trans-1,2-Dichloroethene
PRS16-010B1	95.12834	156592	< 5.		UG/KG	9/28/95		cis-1,2-Dichloroethylene
PRS16-010B1	95.12834	78875	< 5.		UG/KG	9/28/95		1,2-Dichloropropane
PRS16-010B1	95.12834	142289	< 5.		UG/KG	9/28/95		1,3-Dichloropropane
PRS16-010B1	95.12834	594207	< 5.		UG/KG	9/28/95		2,2-Dichloropropane
PRS16-010B1	95.12834	563586	< 5.		UG/KG	9/28/95		1,1-Dichloropropene
PRS16-010B1	95.12834	10061015	< 5.		UG/KG	9/28/95		cis-1,3-Dichloropropene
PRS16-010B1	95.12834	10061026	< 5.		UG/KG	9/28/95		trans-1,3-Dichloropropene
PRS16-010B1	95.12834	100414	< 5.		UG/KG	9/28/95		Ethylbenzene
PRS16-010B1	95.12834	106934	< 5.		UG/KG	9/28/95		Ethylene dibromide
PRS16-010B1	95.12834	591786	< 22.		UG/KG	9/28/95		2-Hexanone
PRS16-010B1	95.12834	98828	< 5.		UG/KG	9/28/95		Isopropylbenzene
PRS16-010B1	95.12834	99876	< 5.		UG/KG	9/28/95		4-Isopropyltoluene
PRS16-010B1	95.12834	74884	< 5.		UG/KG	9/28/95		Methyl iodide
PRS16-010B1	95.12834	108101	< 22.		UG/KG	9/28/95		4-Methyl-2-pentanone
PRS16-010B1	95.12834	75092	< 5.		UG/KG	9/28/95		Methylene chloride
PRS16-010B1	95.12834	103651	< 5.		UG/KG	9/28/95		Propylbenzene
PRS16-010B1	95.12834	100425	< 5.		UG/KG	9/28/95		Styrene
PRS16-010B1	95.12834	630206	< 5.		UG/KG	9/28/95		1,1,1,2-Tetrachloroethane
PRS16-010B1	95.12834	79345	< 5.		UG/KG	9/28/95		1,1,2,2-Tetrachloroethane
PRS16-010B1	95.12834	127184	< 5.		UG/KG	9/28/95		Tetrachloroethylene
PRS16-010B1	95.12834	108883	< 5.		UG/KG	9/28/95		Toluene
PRS16-010B1	95.12834	76131	< 5.		UG/KG	9/28/95		1,1,2-Trichloro-1,2,2-trifluoroethane
PRS16-010B1	95.12834	71556	< 5.		UG/KG	9/28/95		1,1,1-Trichloroethane
PRS16-010B1	95.12834	79005	< 5.		UG/KG	9/28/95		1,1,2-Trichloroethane
PRS16-010B1	95.12834	79016	< 5.		UG/KG	9/28/95		Trichloroethene
PRS16-010B1	95.12834	75694	< 5.		UG/KG	9/28/95		Trichlorofluoromethane
PRS16-010B1	95.12834	96184	< 5.		UG/KG	9/28/95		1,2,3-Trichloropropane
PRS16-010B1	95.12834	95636	< 5.		UG/KG	9/28/95		1,2,4-Trimethylbenzene
PRS16-010B1	95.12834	108678	< 5.		UG/KG	9/28/95		1,3,5-Trimethylbenzene
PRS16-010B1	95.12834	75014	< 11.		UG/KG	9/28/95		Vinyl chloride
PRS16-010B1	95.12834	1330207	< 5.		UG/KG	9/28/95		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 95.12834

none

********** CST ANALYTICAL REPORT **********

Matrix Spike Results for Sample # 95.12834 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/03/95 Date Analyzed: 8/03/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B1	95.12834	71432	55.	56.	UG/KG	9/28/95		Benzene
PRS16-010B1	95.12834	108907	55.	49.	UG/KG	9/28/95		Chlorobenzene
PRS16-010B1	95.12834	75354	55.	56.	UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010B1	95.12834	108883	55.	55.	UG/KG	9/28/95		Toluene
PRS16-010B1	95.12834	79016	55.	52.	UG/KG	9/28/95		Trichloroethene

Matrix Spike Duplicate Results for Sample # 95.12834 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/03/95 Date Analyzed: 8/03/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B1	95.12834	71432	55.	54.	UG/KG	9/28/95		Benzene
PRS16-010B1	95.12834	108907	55.	46.	UG/KG	9/28/95		Chlorobenzene
PRS16-010B1	95.12834	75354	55.	56.	UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010B1	95.12834	108883	55.	54.	UG/KG	9/28/95		Toluene
PRS16-010B1	95.12834	79016	55.	50.	UG/KG	9/28/95		Trichloroethene

********** CST ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: B080311 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12835 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/03/95 Date Analyzed: 8/03/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B4	95.12835	67641	< 19.		UG/KG	9/28/95		Acetone
PRS16-010B4	95.12835	71432	< 5.		UG/KG	9/28/95		Benzene
PRS16-010B4	95.12835	108861	< 5.		UG/KG	9/28/95		Bromobenzene
PRS16-010B4	95.12835	74975	< 5.		UG/KG	9/28/95		Bromochloromethane
PRS16-010B4	95.12835	75274	< 5.		UG/KG	9/28/95		Bromodichloromethane
PRS16-010B4	95.12835	75252	< 5.		UG/KG	9/28/95		Bromoform
PRS16-010B4	95.12835	74839	< 10.		UG/KG	9/28/95		Bromomethane
PRS16-010B4	95.12835	78933	< 19.		UG/KG	9/28/95		2-Butanone
PRS16-010B4	95.12835	104518	< 5.		UG/KG	9/28/95		n-Butylbenzene
PRS16-010B4	95.12835	135988	< 5.		UG/KG	9/28/95		sec-Butylbenzene
PRS16-010B4	95.12835	98066	< 5.		UG/KG	9/28/95		tert-Butylbenzene
PRS16-010B4	95.12835	75150	< 5.		UG/KG	9/28/95		Carbon disulfide
PRS16-010B4	95.12835	56235	< 5.		UG/KG	9/28/95		Carbon tetrachloride
PRS16-010B4	95.12835	108907	< 5.		UG/KG	9/28/95		Chlorobenzene
PRS16-010B4	95.12835	124481	< 5.		UG/KG	9/28/95		Chlorodibromomethane
PRS16-010B4	95.12835	75003	< 10.		UG/KG	9/28/95		Chloroethane
PRS16-010B4	95.12835	67663	< 5.		UG/KG	9/28/95		Chloroform
PRS16-010B4	95.12835	74873	< 10.		UG/KG	9/28/95		Chloromethane
PRS16-010B4	95.12835	95498	< 5.		UG/KG	9/28/95		o-Chlorotoluene
PRS16-010B4	95.12835	106434	< 5.		UG/KG	9/28/95		p-Chlorotoluene
PRS16-010B4	95.12835	96128	< 10.		UG/KG	9/28/95		1,2-Dibromo-3-chloropropane
PRS16-010B4	95.12835	74953	< 5.		UG/KG	9/28/95		Dibromomethane
PRS16-010B4	95.12835	95501	< 5.		UG/KG	9/28/95		o-Dichlorobenzene (1,2)
PRS16-010B4	95.12835	541731	< 5.		UG/KG	9/28/95		m-Dichlorobenzene (1,3)
PRS16-010B4	95.12835	106467	< 5.		UG/KG	9/28/95		p-Dichlorobenzene (1,4)
PRS16-010B4	95.12835	75718	< 10.		UG/KG	9/28/95		Dichlorodifluoromethane

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B4	95.12835	75343	< 5.		UG/KG	9/28/95		1,1-Dichloroethane
PRS16-010B4	95.12835	107062	< 5.		UG/KG	9/28/95		1,2-Dichloroethane
PRS16-010B4	95.12835	75354	< 5.		UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010B4	95.12835	156605	< 5.		UG/KG	9/28/95		trans-1,2-Dichloroethene
PRS16-010B4	95.12835	156592	< 5.		UG/KG	9/28/95		cis-1,2-Dichloroethylene
PRS16-010B4	95.12835	78875	< 5.		UG/KG	9/28/95		1,2-Dichloropropane
PRS16-010B4	95.12835	142289	< 5.		UG/KG	9/28/95		1,3-Dichloropropane
PRS16-010B4	95.12835	594207	< 5.		UG/KG	9/28/95		2,2-Dichloropropane
PRS16-010B4	95.12835	563586	< 5.		UG/KG	9/28/95		1,1-Dichloropropene
PRS16-010B4	95.12835	10061015	< 5.		UG/KG	9/28/95		cis-1,3-Dichloropropene
PRS16-010B4	95.12835	10061026	< 5.		UG/KG	9/28/95		trans-1,3-Dichloropropene
PRS16-010B4	95.12835	100414	< 5.		UG/KG	9/28/95		Ethylbenzene
PRS16-010B4	95.12835	106934	< 5.		UG/KG	9/28/95		Ethylene dibromide
PRS16-010B4	95.12835	591786	< 19.		UG/KG	9/28/95		2-Hexanone
PRS16-010B4	95.12835	98828	< 5.		UG/KG	9/28/95		Isopropylbenzene
PRS16-010B4	95.12835	99876	< 5.		UG/KG	9/28/95		4-Isopropyltoluene
PRS16-010B4	95.12835	74884	< 5.		UG/KG	9/28/95		Methyl iodide
PRS16-010B4	95.12835	108101	< 19.		UG/KG	9/28/95		4-Methyl-2-pentanone
PRS16-010B4	95.12835	75092	< 5.		UG/KG	9/28/95		Methylene chloride
PRS16-010B4	95.12835	103651	< 5.		UG/KG	9/28/95		Propylbenzene
PRS16-010B4	95.12835	100425	< 5.		UG/KG	9/28/95		Styrene
PRS16-010B4	95.12835	630206	< 5.		UG/KG	9/28/95		1,1,1,2-Tetrachloroethane
PRS16-010B4	95.12835	79345	< 5.		UG/KG	9/28/95		1,1,2,2-Tetrachloroethane
PRS16-010B4	95.12835	127184	< 5.		UG/KG	9/28/95		Tetrachloroethylene
PRS16-010B4	95.12835	108883	< 5.		UG/KG	9/28/95		Toluene
PRS16-010B4	95.12835	76131	< 5.		UG/KG	9/28/95		1,1,2-Trichloro-1,2,2-trifluoroethane
PRS16-010B4	95.12835	71556	< 5.		UG/KG	9/28/95		1,1,1-Trichloroethane
PRS16-010B4	95.12835	79005	< 5.		UG/KG	9/28/95		1,1,2-Trichloroethane
PRS16-010B4	95.12835	79016	< 5.		UG/KG	9/28/95		Trichloroethene
PRS16-010B4	95.12835	75694	< 5.		UG/KG	9/28/95		Trichlorofluoromethane
PRS16-010B4	95.12835	96184	< 5.		UG/KG	9/28/95		1,2,3-Trichloropropane
PRS16-010B4	95.12835	95636	< 5.		UG/KG	9/28/95		1,2,4-Trimethylbenzene
PRS16-010B4	95.12835	108678	< 5.		UG/KG	9/28/95		1,3,5-Trimethylbenzene
PRS16-010B4	95.12835	75014	< 10.		UG/KG	9/28/95		Vinyl chloride
PRS16-010B4	95.12835	1330207	< 5.		UG/KG	9/28/95		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 95.12835

none

********** CST ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: B080311 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12837 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/03/95 Date Analyzed: 8/03/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B6	95.12837	67641	< 19.		UG/KG	9/28/95		Acetone
PRS16-010B6	95.12837	71432	< 5.		UG/KG	9/28/95		Benzene
PRS16-010B6	95.12837	108861	< 5.		UG/KG	9/28/95		Bromobenzene
PRS16-010B6	95.12837	74975	< 5.		UG/KG	9/28/95		Bromochloromethane
PRS16-010B6	95.12837	75274	< 5.		UG/KG	9/28/95		Bromodichloromethane
PRS16-010B6	95.12837	75252	< 5.		UG/KG	9/28/95		Bromoform
PRS16-010B6	95.12837	74839	< 9.		UG/KG	9/28/95		Bromomethane
PRS16-010B6	95.12837	78933	< 19.		UG/KG	9/28/95		2-Butanone
PRS16-010B6	95.12837	104518	< 5.		UG/KG	9/28/95		n-Butylbenzene
PRS16-010B6	95.12837	135988	< 5.		UG/KG	9/28/95		sec-Butylbenzene
PRS16-010B6	95.12837	98066	< 5.		UG/KG	9/28/95		tert-Butylbenzene
PRS16-010B6	95.12837	75150	< 5.		UG/KG	9/28/95		Carbon disulfide
PRS16-010B6	95.12837	56235	< 5.		UG/KG	9/28/95		Carbon tetrachloride
PRS16-010B6	95.12837	108907	< 5.		UG/KG	9/28/95		Chlorobenzene
PRS16-010B6	95.12837	124481	< 5.		UG/KG	9/28/95		Chlorodibromomethane
PRS16-010B6	95.12837	75003	< 9.		UG/KG	9/28/95		Chloroethane
PRS16-010B6	95.12837	67663	< 5.		UG/KG	9/28/95		Chloroform
PRS16-010B6	95.12837	74873	< 9.		UG/KG	9/28/95		Chloromethane
PRS16-010B6	95.12837	95498	< 5.		UG/KG	9/28/95		o-Chlorotoluene
PRS16-010B6	95.12837	106434	< 5.		UG/KG	9/28/95		p-Chlorotoluene
PRS16-010B6	95.12837	96128	< 9.		UG/KG	9/28/95		1,2-Dibromo-3-chloropropane
PRS16-010B6	95.12837	74953	< 5.		UG/KG	9/28/95		Dibromomethane
PRS16-010B6	95.12837	95501	< 5.		UG/KG	9/28/95		o-Dichlorobenzene (1,2)
PRS16-010B6	95.12837	541731	< 5.		UG/KG	9/28/95		m-Dichlorobenzene (1,3)
PRS16-010B6	95.12837	106467	< 5.		UG/KG	9/28/95		p-Dichlorobenzene (1,4)
PRS16-010B6	95.12837	75718	< 9.		UG/KG	9/28/95		Dichlorodifluoromethane

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B6	95.12837	75343	< 5.		UG/KG	9/28/95		1,1-Dichloroethane
PRS16-010B6	95.12837	107062	< 5.		UG/KG	9/28/95		1,2-Dichloroethane
PRS16-010B6	95.12837	75354	< 5.		UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010B6	95.12837	156605	< 5.		UG/KG	9/28/95		trans-1,2-Dichloroethene
PRS16-010B6	95.12837	156592	< 5.		UG/KG	9/28/95		cis-1,2-Dichloroethylene
PRS16-010B6	95.12837	78875	< 5.		UG/KG	9/28/95		1,2-Dichloropropane
PRS16-010B6	95.12837	142289	< 5.		UG/KG	9/28/95		1,3-Dichloropropane
PRS16-010B6	95.12837	594207	< 5.		UG/KG	9/28/95		2,2-Dichloropropane
PRS16-010B6	95.12837	563586	< 5.		UG/KG	9/28/95		1,1-Dichloropropene
PRS16-010B6	95.12837	10061015	< 5.		UG/KG	9/28/95		cis-1,3-Dichloropropene
PRS16-010B6	95.12837	10061026	< 5.		UG/KG	9/28/95		trans-1,3-Dichloropropene
PRS16-010B6	95.12837	100414	< 5.		UG/KG	9/28/95		Ethylbenzene
PRS16-010B6	95.12837	106934	< 5.		UG/KG	9/28/95		Ethylene dibromide
PRS16-010B6	95.12837	591786	< 19.		UG/KG	9/28/95		2-Hexanone
PRS16-010B6	95.12837	98828	< 5.		UG/KG	9/28/95		Isopropylbenzene
PRS16-010B6	95.12837	99876	< 5.		UG/KG	9/28/95		4-Isopropyltoluene
PRS16-010B6	95.12837	74884	< 5.		UG/KG	9/28/95		Methyl iodide
PRS16-010B6	95.12837	108101	< 19.		UG/KG	9/28/95		4-Methyl-2-pentanone
PRS16-010B6	95.12837	75092	< 5.		UG/KG	9/28/95		Methylene chloride
PRS16-010B6	95.12837	103651	< 5.		UG/KG	9/28/95		Propylbenzene
PRS16-010B6	95.12837	100425	< 5.		UG/KG	9/28/95		Styrene
PRS16-010B6	95.12837	630206	< 5.		UG/KG	9/28/95		1,1,1,2-Tetrachloroethane
PRS16-010B6	95.12837	79345	< 5.		UG/KG	9/28/95		1,1,2,2-Tetrachloroethane
PRS16-010B6	95.12837	127184	< 5.		UG/KG	9/28/95		Tetrachloroethylene
PRS16-010B6	95.12837	108883	< 5.		UG/KG	9/28/95		Toluene
PRS16-010B6	95.12837	76131	< 5.		UG/KG	9/28/95		1,1,2-Trichloro-1,2,2-trifluoroethane
PRS16-010B6	95.12837	71556	< 5.		UG/KG	9/28/95		1,1,1-Trichloroethane
PRS16-010B6	95.12837	79005	< 5.		UG/KG	9/28/95		1,1,2-Trichloroethane
PRS16-010B6	95.12837	79016	< 5.		UG/KG	9/28/95		Trichloroethene
PRS16-010B6	95.12837	75694	< 5.		UG/KG	9/28/95		Trichlorofluoromethane
PRS16-010B6	95.12837	96184	< 5.		UG/KG	9/28/95		1,2,3-Trichloropropane
PRS16-010B6	95.12837	95636	< 5.		UG/KG	9/28/95		1,2,4-Trimethylbenzene
PRS16-010B6	95.12837	108678	< 5.		UG/KG	9/28/95		1,3,5-Trimethylbenzene
PRS16-010B6	95.12837	75014	< 9.		UG/KG	9/28/95		Vinyl chloride
PRS16-010B6	95.12837	1330207	< 5.		UG/KG	9/28/95		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 95.12837

none

********** CST ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: B080311 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12838 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/03/95 Date Analyzed: 8/03/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B11	95.12838	67641	< 20.		UG/KG	9/28/95		Acetone
PRS16-010B11	95.12838	71432	< 5.		UG/KG	9/28/95		Benzene
PRS16-010B11	95.12838	108[illegible]1	< 5.		UG/KG	9/28/95		Bromobenzene
PRS16-010B11	95.12838	74975	< 5.		UG/KG	9/28/95		Bromochloromethane
PRS16-010B11	95.12838	75274	< 5.		UG/KG	9/28/95		Bromodichloromethane
PRS16-010B11	95.12838	75252	< 5.		UG/KG	9/28/95		Bromoform
PRS16-010B11	95.12838	74839	< 10.		UG/KG	9/28/95		Bromomethane
PRS16-010B11	95.12838	78933	< 20.		UG/KG	9/28/95		2-Butanone
PRS16-010B11	95.12838	104518	< 5.		UG/KG	9/28/95		n-Butylbenzene
PRS16-010B11	95.12838	135988	< 5.		UG/KG	9/28/95		sec-Butylbenzene
PRS16-010B11	95.12838	98066	< 5.		UG/KG	9/28/95		tert-Butylbenzene
PRS16-010B11	95.12838	75150	< 5.		UG/KG	9/28/95		Carbon disulfide
PRS16-010B11	95.12838	56235	< 5.		UG/KG	9/28/95		Carbon tetrachloride
PRS16-010B11	95.12838	108907	< 5.		UG/KG	9/28/95		Chlorobenzene
PRS16-010B11	95.12838	124481	< 5.		UG/KG	9/28/95		Chlorodibromomethane
PRS16-010B11	95.12838	75003	< 10.		UG/KG	9/28/95		Chloroethane
PRS16-010B11	95.12838	67663	< 5.		UG/KG	9/28/95		Chloroform
PRS16-010B11	95.12838	74873	< 10.		UG/KG	9/28/95		Chloromethane
PRS16-010B11	95.12838	95498	< 5.		UG/KG	9/28/95		o-Chlorotoluene
PRS16-010B11	95.12838	106434	< 5.		UG/KG	9/28/95		p-Chlorotoluene
PRS16-010B11	95.12838	96128	< 10.		UG/KG	9/28/95		1,2-Dibromo-3-chloropropane
PRS16-010B11	95.12838	74953	< 5.		UG/KG	9/28/95		Dibromomethane
PRS16-010B11	95.12838	95501	< 5.		UG/KG	9/28/95		o-Dichlorobenzene (1,2)
PRS16-010B11	95.12838	541731	< 5.		UG/KG	9/28/95		m-Dichlorobenzene (1,3)
PRS16-010B11	95.12838	106467	< 5.		UG/KG	9/28/95		p-Dichlorobenzene (1,4)
PRS16-010B11	95.12838	75718	< 10.		UG/KG	9/28/95		Dichlorodifluoromethane

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B11	95.12838	75343	< 5.		UG/KG	9/28/95		1,1-Dichloroethane
PRS16-010B11	95.12838	107062	< 5.		UG/KG	9/28/95		1,2-Dichloroethane
PRS16-010B11	95.12838	75354	< 5.		UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010B11	95.12838	156605	< 5.		UG/KG	9/28/95		trans-1,2-Dichloroethene
PRS16-010B11	95.12838	156592	< 5.		UG/KG	9/28/95		cis-1,2-Dichloroethylene
PRS16-010B11	95.12838	78875	< 5.		UG/KG	9/28/95		1,2-Dichloropropane
PRS16-010B11	95.12838	142289	< 5.		UG/KG	9/28/95		1,3-Dichloropropane
PRS16-010B11	95.12838	594207	< 5.		UG/KG	9/28/95		2,2-Dichloropropane
PRS16-010B11	95.12838	563586	< 5.		UG/KG	9/28/95		1,1-Dichloropropene
PRS16-010B11	95.12838	10061015	< 5.		UG/KG	9/28/95		cis-1,3-Dichloropropene
PRS16-010B11	95.12838	10061026	< 5.		UG/KG	9/28/95		trans-1,3-Dichloropropene
PRS16-010B11	95.12838	100414	< 5.		UG/KG	9/28/95		Ethylbenzene
PRS16-010B11	95.12838	106934	< 5.		UG/KG	9/28/95		Ethylene dibromide
PRS16-010B11	95.12838	591786	< 20.		UG/KG	9/28/95		2-Hexanone
PRS16-010B11	95.12838	98828	< 5.		UG/KG	9/28/95		Isopropylbenzene
PRS16-010B11	95.12838	99876	< 5.		UG/KG	9/28/95		4-Isopropyltoluene
PRS16-010B11	95.12838	74884	< 5.		UG/KG	9/28/95		Methyl iodide
PRS16-010B11	95.12838	108101	< 20.		UG/KG	9/28/95		4-Methyl-2-pentanone
PRS16-010B11	95.12838	75092	< 5.		UG/KG	9/28/95		Methylene chloride
PRS16-010B11	95.12838	103651	< 5.		UG/KG	9/28/95		Propylbenzene
PRS16-010B11	95.12838	100425	< 5.		UG/KG	9/28/95		Styrene
PRS16-010B11	95.12838	630206	< 5.		UG/KG	9/28/95		1,1,1,2-Tetrachloroethane
PRS16-010B11	95.12838	79345	< 5.		UG/KG	9/28/95		1,1,2,2-Tetrachloroethane
PRS16-010B11	95.12838	127184	< 5.		UG/KG	9/28/95		Tetrachloroethylene
PRS16-010B11	95.12838	108883	< 5.		UG/KG	9/28/95		Toluene
PRS16-010B11	95.12838	76131	< 5.		UG/KG	9/28/95		1,1,2-Trichloro-1,2,2-trifluoroethane
PRS16-010B11	95.12838	71556	< 5.		UG/KG	9/28/95		1,1,1-Trichloroethane
PRS16-010B11	95.12838	79005	< 5.		UG/KG	9/28/95		1,1,2-Trichloroethane
PRS16-010B11	95.12838	79016	< 5.		UG/KG	9/28/95		Trichloroethene
PRS16-010B11	95.12838	75694	< 5.		UG/KG	9/28/95		Trichlorofluoromethane
PRS16-010B11	95.12838	96184	< 5.		UG/KG	9/28/95		1,2,3-Trichloropropane
PRS16-010B11	95.12838	95636	< 5.		UG/KG	9/28/95		1,2,4-Trimethylbenzene
PRS16-010B11	95.12838	108678	< 5.		UG/KG	9/28/95		1,3,5-Trimethylbenzene
PRS16-010B11	95.12838	75014	< 10.		UG/KG	9/28/95		Vinyl chloride
PRS16-010B11	95.12838	1330207	< 5.		UG/KG	9/28/95		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 95.12838

none

********** CST ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: B080311 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12839 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/03/95 Date Analyzed: 8/03/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B12	95.12839	67641	< 20.		UG/KG	9/28/95		Acetone
PRS16-010B12	95.12839	71432	< 5.		UG/KG	9/28/95		Benzene
PRS16-010B12	95.12839	108861	< 5.		UG/KG	9/28/95		Bromobenzene
PRS16-010B12	95.12839	74975	< 5.		UG/KG	9/28/95		Bromochloromethane
PRS16-010B12	95.12839	75274	< 5.		UG/KG	9/28/95		Bromodichloromethane
PRS16-010B12	95.12839	75252	< 5.		UG/KG	9/28/95		Bromoform
PRS16-010B12	95.12839	74839	< 10.		UG/KG	9/28/95		Bromomethane
PRS16-010B12	95.12839	78933	< 20.		UG/KG	9/28/95		2-Butanone
PRS16-010B12	95.12839	104518	< 5.		UG/KG	9/28/95		n-Butylbenzene
PRS16-010B12	95.12839	135988	< 5.		UG/KG	9/28/95		sec-Butylbenzene
PRS16-010B12	95.12839	98066	< 5.		UG/KG	9/28/95		tert-Butylbenzene
PRS16-010B12	95.12839	75150	< 5.		UG/KG	9/28/95		Carbon disulfide
PRS16-010B12	95.12839	56235	< 5.		UG/KG	9/28/95		Carbon tetrachloride
PRS16-010B12	95.12839	108907	< 5.		UG/KG	9/28/95		Chlorobenzene
PRS16-010B12	95.12839	124481	< 5.		UG/KG	9/28/95		Chlorodibromomethane
PRS16-010B12	95.12839	75003	< 10.		UG/KG	9/28/95		Chloroethane
PRS16-010B12	95.12839	67663	< 5.		UG/KG	9/28/95		Chloroform
PRS16-010B12	95.12839	74873	< 10.		UG/KG	9/28/95		Chloromethane
PRS16-010B12	95.12839	95498	< 5.		UG/KG	9/28/95		o-Chlorotoluene
PRS16-010B12	95.12839	106434	< 5.		UG/KG	9/28/95		p-Chlorotoluene
PRS16-010B12	95.12839	96128	< 10.		UG/KG	9/28/95		1,2-Dibromo-3-chloropropane
PRS16-010B12	95.12839	74953	< 5.		UG/KG	9/28/95		Dibromomethane
PRS16-010B12	95.12839	95501	< 5.		UG/KG	9/28/95		o-Dichlorobenzene (1,2)
PRS16-010B12	95.12839	541731	< 5.		UG/KG	9/28/95		m-Dichlorobenzene (1,3)
PRS16-010B12	95.12839	106467	< 5.		UG/KG	9/28/95		p-Dichlorobenzene (1,4)
PRS16-010B12	95.12839	75718	< 10.		UG/KG	9/28/95		Dichlorodifluoromethane

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B12	95.12839	75343	< 5.		UG/KG	9/28/95		1,1-Dichloroethane
PRS16-010B12	95.12839	107062	< 5.		UG/KG	9/28/95		1,2-Dichloroethane
PRS16-010B12	95.12839	75354	< 5.		UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010B12	95.12839	156605	< 5.		UG/KG	9/28/95		trans-1,2-Dichloroethene
PRS16-010B12	95.12839	156592	< 5.		UG/KG	9/28/95		cis-1,2-Dichloroethylene
PRS16-010B12	95.12839	78875	< 5.		UG/KG	9/28/95		1,2-Dichloropropane
PRS16-010B12	95.12839	142289	< 5.		UG/KG	9/28/95		1,3-Dichloropropane
PRS16-010B12	95.12839	594207	< 5.		UG/KG	9/28/95		2,2-Dichloropropane
PRS16-010B12	95.12839	563586	< 5.		UG/KG	9/28/95		1,1-Dichloropropene
PRS16-010B12	95.12839	10061015	< 5.		UG/KG	9/28/95		cis-1,3-Dichloropropene
PRS16-010B12	95.12839	10061026	< 5.		UG/KG	9/28/95		trans-1,3-Dichloropropene
PRS16-010B12	95.12839	100414	< 5.		UG/KG	9/28/95		Ethylbenzene
PRS16-010B12	95.12839	106934	< 5.		UG/KG	9/28/95		Ethylene dibromide
PRS16-010B12	95.12839	591786	< 20.		UG/KG	9/28/95		2-Hexanone
PRS16-010B12	95.12839	98828	< 5.		UG/KG	9/28/95		Isopropylbenzene
PRS16-010B12	95.12839	99876	< 5.		UG/KG	9/28/95		4-Isopropyltoluene
PRS16-010B12	95.12839	74884	< 5.		UG/KG	9/28/95		Methyl iodide
PRS16-010B12	95.12839	108101	< 20.		UG/KG	9/28/95		4-Methyl-2-pentanone
PRS16-010B12	95.12839	75092	< 5.		UG/KG	9/28/95		Methylene chloride
PRS16-010B12	95.12839	103651	< 5.		UG/KG	9/28/95		Propylbenzene
PRS16-010B12	95.12839	100425	< 5.		UG/KG	9/28/95		Styrene
PRS16-010B12	95.12839	630206	< 5.		UG/KG	9/28/95		1,1,1,2-Tetrachloroethane
PRS16-010B12	95.12839	79345	< 5.		UG/KG	9/28/95		1,1,2,2-Tetrachloroethane
PRS16-010B12	95.12839	127184	< 5.		UG/KG	9/28/95		Tetrachloroethylene
PRS16-010B12	95.12839	108883	< 5.		UG/KG	9/28/95		Toluene
PRS16-010B12	95.12839	76131	< 5.		UG/KG	9/28/95		1,1,2-Trichloro-1,2,2-trifluoroethane
PRS16-010B12	95.12839	71556	< 5.		UG/KG	9/28/95		1,1,1-Trichloroethane
PRS16-010B12	95.12839	79005	< 5.		UG/KG	9/28/95		1,1,2-Trichloroethane
PRS16-010B12	95.12839	79016	< 5.		UG/KG	9/28/95		Trichloroethene
PRS16-010B12	95.12839	75694	< 5.		UG/KG	9/28/95		Trichlorofluoromethane
PRS16-010B12	95.12839	96184	< 5.		UG/KG	9/28/95		1,2,3-Trichloropropane
PRS16-010B12	95.12839	95636	< 5.		UG/KG	9/28/95		1,2,4-Trimethylbenzene
PRS16-010B12	95.12839	108678	< 5.		UG/KG	9/28/95		1,3,5-Trimethylbenzene
PRS16-010B12	95.12839	75014	< 10.		UG/KG	9/28/95		Vinyl chloride
PRS16-010B12	95.12839	1330207	< 5.		UG/KG	9/28/95		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 95.12839

none

********** CST ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: B080311 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12840 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/03/95 Date Analyzed: 8/03/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B13	95.12840	67641	37.	11.1	UG/KG	9/28/95		Acetone
PRS16-010B13	95.12840	71432	< 6.		UG/KG	9/28/95		Benzene
PRS16-010B13	95.12840	108861	< 6.		UG/KG	9/28/95		Bromobenzene
PRS16-010B13	95.12840	74975	< 6.		UG/KG	9/28/95		Bromochloromethane
PRS16-010B13	95.12840	75274	< 6.		UG/KG	9/28/95		Bromodichloromethane
PRS16-010B13	95.12840	75252	< 6.		UG/KG	9/28/95		Bromoform
PRS16-010B13	95.12840	74839	< 12.		UG/KG	9/28/95		Bromomethane
PRS16-010B13	95.12840	78933	< 24.		UG/KG	9/28/95		2-Butanone
PRS16-010B13	95.12840	104518	< 6.		UG/KG	9/28/95		n-Butylbenzene
PRS16-010B13	95.12840	135988	< 6.		UG/KG	9/28/95		sec-Butylbenzene
PRS16-010B13	95.12840	98066	< 6.		UG/KG	9/28/95		tert-Butylbenzene
PRS16-010B13	95.12840	75150	< 6.		UG/KG	9/28/95		Carbon disulfide
PRS16-010B13	95.12840	56235	< 6.		UG/KG	9/28/95		Carbon tetrachloride
PRS16-010B13	95.12840	108907	< 6.		UG/KG	9/28/95		Chlorobenzene
PRS16-010B13	95.12840	124481	< 6.		UG/KG	9/28/95		Chlorodibromomethane
PRS16-010B13	95.12840	75003	< 12.		UG/KG	9/28/95		Chloroethane
PRS16-010B13	95.12840	67663	< 6.		UG/KG	9/28/95		Chloroform
PRS16-010B13	95.12840	74873	< 12.		UG/KG	9/28/95		Chloromethane
PRS16-010B13	95.12840	95498	< 6.		UG/KG	9/28/95		o-Chlorotoluene
PRS16-010B13	95.12840	106434	< 6.		UG/KG	9/28/95		p-Chlorotoluene
PRS16-010B13	95.12840	96128	< 12.		UG/KG	9/28/95		1,2-Dibromo-3-chloropropane
PRS16-010B13	95.12840	74953	< 6.		UG/KG	9/28/95		Dibromomethane
PRS16-010B13	95.12840	95501	< 6.		UG/KG	9/28/95		o-Dichlorobenzene (1,2)
PRS16-010B13	95.12840	541731	< 6.		UG/KG	9/28/95		m-Dichlorobenzene (1,3)
PRS16-010B13	95.12840	106467	< 6.		UG/KG	9/28/95		p-Dichlorobenzene (1,4)
PRS16-010B13	95.12840	75718	< 12.		UG/KG	9/28/95		Dichlorodifluoromethane

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B13	95.12840	75343	< 6.		UG/KG	9/28/95		1,1-Dichloroethane
PRS16-010B13	95.12840	107062	< 6.		UG/KG	9/28/95		1,2-Dichloroethane
PRS16-010B13	95.12840	75354	< 6.		UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010B13	95.12840	156605	< 6.		UG/KG	9/28/95		trans-1,2-Dichloroethene
PRS16-010B13	95.12840	156592	< 6.		UG/KG	9/28/95		cis-1,2-Dichloroethylene
PRS16-010B13	95.12840	78875	< 6.		UG/KG	9/28/95		1,2-Dichloropropane
PRS16-010B13	95.12840	142289	< 6.		UG/KG	9/28/95		1,3-Dichloropropane
PRS16-010B13	95.12840	594207	< 6.		UG/KG	9/28/95		2,2-Dichloropropane
PRS16-010B13	95.12840	563586	< 6.		UG/KG	9/28/95		1,1-Dichloropropene
PRS16-010B13	95.12840	10061015	< 6.		UG/KG	9/28/95		cis-1,3-Dichloropropene
PRS16-010B13	95.12840	10061026	< 6.		UG/KG	9/28/95		trans-1,3-Dichloropropene
PRS16-010B13	95.12840	100414	< 6.		UG/KG	9/28/95		Ethylbenzene
PRS16-010B13	95.12840	106934	< 6.		UG/KG	9/28/95		Ethylene dibromide
PRS16-010B13	95.12840	591786	< 24.		UG/KG	9/28/95		2-Hexanone
PRS16-010B13	95.12840	98828	< 6.		UG/KG	9/28/95		Isopropylbenzene
PRS16-010B13	95.12840	99876	< 6.		UG/KG	9/28/95		4-Isopropyltoluene
PRS16-010B13	95.12840	74884	< 6.		UG/KG	9/28/95		Methyl iodide
PRS16-010B13	95.12840	108101	< 24.		UG/KG	9/28/95		4-Methyl-2-pentanone
PRS16-010B13	95.12840	75092	< 6.		UG/KG	9/28/95		Methylene chloride
PRS16-010B13	95.12840	103651	< 6.		UG/KG	9/28/95		Propylbenzene
PRS16-010B13	95.12840	100425	< 6.		UG/KG	9/28/95		Styrene
PRS16-010B13	95.12840	630206	< 6.		UG/KG	9/28/95		1,1,1,2-Tetrachloroethane
PRS16-010B13	95.12840	79345	< 6.		UG/KG	9/28/95		1,1,2,2-Tetrachloroethane
PRS16-010B13	95.12840	127184	< 6.		UG/KG	9/28/95		Tetrachloroethylene
PRS16-010B13	95.12840	108883	< 6.		UG/KG	9/28/95		Toluene
PRS16-010B13	95.12840	76131	< 6.		UG/KG	9/28/95		1,1,2-Trichloro-1,2,2-trifluoroethane
PRS16-010B13	95.12840	71556	< 6.		UG/KG	9/28/95		1,1,1-Trichloroethane
PRS16-010B13	95.12840	79005	< 6.		UG/KG	9/28/95		1,1,2-Trichloroethane
PRS16-010B13	95.12840	79016	< 6.		UG/KG	9/28/95		Trichloroethene
PRS16-010B13	95.12840	75694	< 6.		UG/KG	9/28/95		Trichlorofluoromethane
PRS16-010B13	95.12840	96184	< 6.		UG/KG	9/28/95		1,2,3-Trichloropropane
PRS16-010B13	95.12840	95636	< 6.		UG/KG	9/28/95		1,2,4-Trimethylbenzene
PRS16-010B13	95.12840	108678	< 6.		UG/KG	9/28/95		1,3,5-Trimethylbenzene
PRS16-010B13	95.12840	75014	< 12.		UG/KG	9/28/95		Vinyl chloride
PRS16-010B13	95.12840	1330207	< 6.		UG/KG	9/28/95		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 95.12840

none

********** CST ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: B080311 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12841 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/03/95 Date Analyzed: 8/03/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B14	95.12841	67641	64.	19.2	UG/KG	9/28/95		Acetone
PRS16-010B14	95.12841	71432	16.	4.8	UG/KG	9/28/95		Benzene
PRS16-010B14	95.12841	108861	< 5.		UG/KG	9/28/95		Bromobenzene
PRS16-010B14	95.12841	74975	< 5.		UG/KG	9/28/95		Bromochloromethane
PRS16-010B14	95.12841	75274	< 5.		UG/KG	9/28/95		Bromodichloromethane
PRS16-010B14	95.12841	75252	< 5.		UG/KG	9/28/95		Bromoform
PRS16-010B14	95.12841	74839	< 10.		UG/KG	9/28/95		Bromomethane
PRS16-010B14	95.12841	78933	< 20.		UG/KG	9/28/95		2-Butanone
PRS16-010B14	95.12841	104518	< 5.		UG/KG	9/28/95		n-Butylbenzene
PRS16-010B14	95.12841	135988	< 5.		UG/KG	9/28/95		sec-Butylbenzene
PRS16-010B14	95.12841	98066	< 5.		UG/KG	9/28/95		tert-Butylbenzene
PRS16-010B14	95.12841	75150	< 5.		UG/KG	9/28/95		Carbon disulfide
PRS16-010B14	95.12841	56235	< 5.		UG/KG	9/28/95		Carbon tetrachloride
PRS16-010B14	95.12841	108907	< 5.		UG/KG	9/28/95		Chlorobenzene
PRS16-010B14	95.12841	124481	< 5.		UG/KG	9/28/95		Chlorodibromomethane
PRS16-010B14	95.12841	75003	< 10.		UG/KG	9/28/95		Chloroethane
PRS16-010B14	95.12841	67663	< 5.		UG/KG	9/28/95		Chloroform
PRS16-010B14	95.12841	74873	< 10.		UG/KG	9/28/95		Chloromethane
PRS16-010B14	95.12841	95498	< 5.		UG/KG	9/28/95		o-Chlorotoluene
PRS16-010B14	95.12841	106434	< 5.		UG/KG	9/28/95		p-Chlorotoluene
PRS16-010B14	95.12841	96128	< 10.		UG/KG	9/28/95		1,2-Dibromo-3-chloropropane
PRS16-010B14	95.12841	74953	< 5.		UG/KG	9/28/95		Dibromomethane
PRS16-010B14	95.12841	95501	< 5.		UG/KG	9/28/95		o-Dichlorobenzene (1,2)
PRS16-010B14	95.12841	541731	< 5.		UG/KG	9/28/95		m-Dichlorobenzene (1,3)
PRS16-010B14	95.12841	106467	< 5.		UG/KG	9/28/95		p-Dichlorobenzene (1,4)
PRS16-010B14	95.12841	75718	< 10.		UG/KG	9/28/95		Dichlorodifluoromethane

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B14	95.12841	75343	< 5.		UG/KG	9/28/95		1,1-Dichloroethane
PRS16-010B14	95.12841	107062	< 5.		UG/KG	9/28/95		1,2-Dichloroethane
PRS16-010B14	95.12841	75354	< 5.		UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010B14	95.12841	156605	< 5.		UG/KG	9/28/95		trans-1,2-Dichloroethene
PRS16-010B14	95.12841	156592	< 5.		UG/KG	9/28/95		cis-1,2-Dichloroethylene
PRS16-010B14	95.12841	78875	< 5.		UG/KG	9/28/95		1,2-Dichloropropane
PRS16-010B14	95.12841	142289	< 5.		UG/KG	9/28/95		1,3-Dichloropropane
PRS16-010B14	95.12841	594207	< 5.		UG/KG	9/28/95		2,2-Dichloropropane
PRS16-010B14	95.12841	563586	< 5.		UG/KG	9/28/95		1,1-Dichloropropene
PRS16-010B14	95.12841	10061015	< 5.		UG/KG	9/28/95		cis-1,3-Dichloropropene
PRS16-010B14	95.12841	10061026	< 5.		UG/KG	9/28/95		trans-1,3-Dichloropropene
PRS16-010B14	95.12841	100414	< 5.		UG/KG	9/28/95		Ethylbenzene
PRS16-010B14	95.12841	106934	< 5.		UG/KG	9/28/95		Ethylene dibromide
PRS16-010B14	95.12841	591786	< 20.		UG/KG	9/28/95		2-Hexanone
PRS16-010B14	95.12841	98828	< 5.		UG/KG	9/28/95		Isopropylbenzene
PRS16-010B14	95.12841	99876	< 5.		UG/KG	9/28/95		4-Isopropyltoluene
PRS16-010B14	95.12841	74884	< 5.		UG/KG	9/28/95		Methyl iodide
PRS16-010B14	95.12841	108101	< 20.		UG/KG	9/28/95		4-Methyl-2-pentanone
PRS16-010B14	95.12841	75092	< 5.		UG/KG	9/28/95		Methylene chloride
PRS16-010B14	95.12841	103651	< 5.		UG/KG	9/28/95		Propylbenzene
PRS16-010B14	95.12841	100425	< 5.		UG/KG	9/28/95		Styrene
PRS16-010B14	95.12841	630206	< 5.		UG/KG	9/28/95		1,1,1,2-Tetrachloroethane
PRS16-010B14	95.12841	79345	< 5.		UG/KG	9/28/95		1,1,2,2-Tetrachloroethane
PRS16-010B14	95.12841	127184	< 5.		UG/KG	9/28/95		Tetrachloroethylene
PRS16-010B14	95.12841	108883	6.	1.8	UG/KG	9/28/95		Toluene
PRS16-010B14	95.12841	76131	< 5.		UG/KG	9/28/95		1,1,2-Trichloro-1,2,2-trifluoroethane
PRS16-010B14	95.12841	71556	< 5.		UG/KG	9/28/95		1,1,1-Trichloroethane
PRS16-010B14	95.12841	79005	< 5.		UG/KG	9/28/95		1,1,2-Trichloroethane
PRS16-010B14	95.12841	79016	< 5.		UG/KG	9/28/95		Trichloroethene
PRS16-010B14	95.12841	75694	< 5.		UG/KG	9/28/95		Trichlorofluoromethane
PRS16-010B14	95.12841	96184	< 5.		UG/KG	9/28/95		1,2,3-Trichloropropane
PRS16-010B14	95.12841	95636	< 5.		UG/KG	9/28/95		1,2,4-Trimethylbenzene
PRS16-010B14	95.12841	108678	< 5.		UG/KG	9/28/95		1,3,5-Trimethylbenzene
PRS16-010B14	95.12841	75014	< 10.		UG/KG	9/28/95		Vinyl chloride
PRS16-010B14	95.12841	1330207	< 5.		UG/KG	9/28/95		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 95.12841

none

********** CST ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: B080311 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12842 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/10/95 Date Analyzed: 8/10/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J1	95.12842	67641	< 20.		UG/KG	9/28/95		Acetone
PRS16-010J1	95.12842	71432	< 5.		UG/KG	9/28/95		Benzene
PRS16-010J1	95.12842	108861	< 5.		UG/KG	9/28/95		Bromobenzene
PRS16-010J1	95.12842	74975	< 5.		UG/KG	9/28/95		Bromochloromethane
PRS16-010J1	95.12842	75274	< 5.		UG/KG	9/28/95		Bromodichloromethane
PRS16-010J1	95.12842	75252	< 5.		UG/KG	9/28/95		Bromoform
PRS16-010J1	95.12842	74839	< 10.		UG/KG	9/28/95		Bromomethane
PRS16-010J1	95.12842	78933	< 20.		UG/KG	9/28/95		2-Butanone
PRS16-010J1	95.12842	104518	< 5.		UG/KG	9/28/95		n-Butylbenzene
PRS16-010J1	95.12842	135988	< 5.		UG/KG	9/28/95		sec-Butylbenzene
PRS16-010J1	95.12842	98066	< 5.		UG/KG	9/28/95		tert-Butylbenzene
PRS16-010J1	95.12842	75150	< 5.		UG/KG	9/28/95		Carbon disulfide
PRS16-010J1	95.12842	56235	< 5.		UG/KG	9/28/95		Carbon tetrachloride
PRS16-010J1	95.12842	108907	< 5.		UG/KG	9/28/95		Chlorobenzene
PRS16-010J1	95.12842	124481	< 5.		UG/KG	9/28/95		Chlorodibromomethane
PRS16-010J1	95.12842	75003	< 10.		UG/KG	9/28/95		Chloroethane
PRS16-010J1	95.12842	67663	< 5.		UG/KG	9/28/95		Chloroform
PRS16-010J1	95.12842	74873	< 10.		UG/KG	9/28/95		Chloromethane
PRS16-010J1	95.12842	95498	< 5.		UG/KG	9/28/95		o-Chlorotoluene
PRS16-010J1	95.12842	106434	< 5.		UG/KG	9/28/95		p-Chlorotoluene
PRS16-010J1	95.12842	96128	< 10.		UG/KG	9/28/95		1,2-Dibromo-3-chloropropane
PRS16-010J1	95.12842	74953	< 5.		UG/KG	9/28/95		Dibromomethane
PRS16-010J1	95.12842	95501	< 5.		UG/KG	9/28/95		o-Dichlorobenzene (1,2)
PRS16-010J1	95.12842	541731	< 5.		UG/KG	9/28/95		m-Dichlorobenzene (1,3)
PRS16-010J1	95.12842	106467	< 5.		UG/KG	9/28/95		p-Dichlorobenzene (1,4)
PRS16-010J1	95.12842	75718	< 10.		UG/KG	9/28/95		Dichlorodifluoromethane

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J1	95.12842	75343	< 5.		UG/KG	9/28/95		1,1-Dichloroethane
PRS16-010J1	95.12842	107062	< 5.		UG/KG	9/28/95		1,2-Dichloroethane
PRS16-010J1	95.12842	75354	< 5.		UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010J1	95.12842	156605	< 5.		UG/KG	9/28/95		trans-1,2-Dichloroethene
PRS16-010J1	95.12842	156592	< 5.		UG/KG	9/28/95		cis-1,2-Dichloroethylene
PRS16-010J1	95.12842	78875	< 5.		UG/KG	9/28/95		1,2-Dichloropropane
PRS16-010J1	95.12842	142289	< 5.		UG/KG	9/28/95		1,3-Dichloropropane
PRS16-010J1	95.12842	594207	< 5.		UG/KG	9/28/95		2,2-Dichloropropane
PRS16-010J1	95.12842	563586	< 5.		UG/KG	9/28/95		1,1-Dichloropropene
PRS16-010J1	95.12842	10061015	< 5.		UG/KG	9/28/95		cis-1,3-Dichloropropene
PRS16-010J1	95.12842	10061026	< 5.		UG/KG	9/28/95		trans-1,3-Dichloropropene
PRS16-010J1	95.12842	100414	< 5.		UG/KG	9/28/95		Ethylbenzene
PRS16-010J1	95.12842	106934	< 5.		UG/KG	9/28/95		Ethylene dibromide
PRS16-010J1	95.12842	591786	< 20.		UG/KG	9/28/95		2-Hexanone
PRS16-010J1	95.12842	98828	< 5.		UG/KG	9/28/95		Isopropylbenzene
PRS16-010J1	95.12842	99876	< 5.		UG/KG	9/28/95		4-Isopropyltoluene
PRS16-010J1	95.12842	74884	< 5.		UG/KG	9/28/95		Methyl iodide
PRS16-010J1	95.12842	108101	< 20.		UG/KG	9/28/95		4-Methyl-2-pentanone
PRS16-010J1	95.12842	75092	< 5.		UG/KG	9/28/95		Methylene chloride
PRS16-010J1	95.12842	103651	< 5.		UG/KG	9/28/95		Propylbenzene
PRS16-010J1	95.12842	100425	< 5.		UG/KG	9/28/95		Styrene
PRS16-010J1	95.12842	630206	< 5.		UG/KG	9/28/95		1,1,1,2-Tetrachloroethane
PRS16-010J1	95.12842	79345	< 5.		UG/KG	9/28/95		1,1,2,2-Tetrachloroethane
PRS16-010J1	95.12842	127184	< 5.		UG/KG	9/28/95		Tetrachloroethylene
PRS16-010J1	95.12842	108883	< 5.		UG/KG	9/28/95		Toluene
PRS16-010J1	95.12842	76131	< 5.		UG/KG	9/28/95		1,1,2-Trichloro-1,2,2-trifluoroethane
PRS16-010J1	95.12842	71556	< 5.		UG/KG	9/28/95		1,1,1-Trichloroethane
PRS16-010J1	95.12842	79005	< 5.		UG/KG	9/28/95		1,1,2-Trichloroethane
PRS16-010J1	95.12842	79016	< 5.		UG/KG	9/28/95		Trichloroethene
PRS16-010J1	95.12842	75694	< 5.		UG/KG	9/28/95		Trichlorofluoromethane
PRS16-010J1	95.12842	96184	< 5.		UG/KG	9/28/95		1,2,3-Trichloropropane
PRS16-010J1	95.12842	95636	< 5.		UG/KG	9/28/95		1,2,4-Trimethylbenzene
PRS16-010J1	95.12842	108678	< 5.		UG/KG	9/28/95		1,3,5-Trimethylbenzene
PRS16-010J1	95.12842	75014	< 10.		UG/KG	9/28/95		Vinyl chloride
PRS16-010J1	95.12842	1330207	< 5.		UG/KG	9/28/95		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 95.12842

none

********** CST ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: B080311 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12843 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/09/95 Date Analyzed: 8/09/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J2	95.12843	67641	< 21.		UG/KG	9/28/95		Acetone
PRS16-010J2	95.12843	71432	< 5.		UG/KG	9/28/95		Benzene
PRS16-010J2	95.12843	108861	< 5.		UG/KG	9/28/95		Bromobenzene
PRS16-010J2	95.12843	74975	< 5.		UG/KG	9/28/95		Bromochloromethane
PRS16-010J2	95.12843	75274	< 5.		UG/KG	9/28/95		Bromodichloromethane
PRS16-010J2	95.12843	75252	< 5.		UG/KG	9/28/95		Bromoform
PRS16-010J2	95.12843	74839	< 10.		UG/KG	9/28/95		Bromomethane
PRS16-010J2	95.12843	78933	< 21.		UG/KG	9/28/95		2-Butanone
PRS16-010J2	95.12843	104518	< 5.		UG/KG	9/28/95		n-Butylbenzene
PRS16-010J2	95.12843	135988	< 5.		UG/KG	9/28/95		sec-Butylbenzene
PRS16-010J2	95.12843	98066	< 5.		UG/KG	9/28/95		tert-Butylbenzene
PRS16-010J2	95.12843	75150	< 5.		UG/KG	9/28/95		Carbon disulfide
PRS16-010J2	95.12843	56235	< 5.		UG/KG	9/28/95		Carbon tetrachloride
PRS16-010J2	95.12843	108907	< 5.		UG/KG	9/28/95		Chlorobenzene
PRS16-010J2	95.12843	124481	< 5.		UG/KG	9/28/95		Chlorodibromomethane
PRS16-010J2	95.12843	75003	< 10.		UG/KG	9/28/95		Chloroethane
PRS16-010J2	95.12843	67663	< 5.		UG/KG	9/28/95		Chloroform
PRS16-010J2	95.12843	74873	< 10.		UG/KG	9/28/95		Chloromethane
PRS16-010J2	95.12843	95498	< 5.		UG/KG	9/28/95		o-Chlorotoluene
PRS16-010J2	95.12843	106434	< 5.		UG/KG	9/28/95		p-Chlorotoluene
PRS16-010J2	95.12843	96128	< 10.		UG/KG	9/28/95		1,2-Dibromo-3-chloropropane
PRS16-010J2	95.12843	74953	< 5.		UG/KG	9/28/95		Dibromomethane
PRS16-010J2	95.12843	95501	< 5.		UG/KG	9/28/95		o-Dichlorobenzene (1,2)
PRS16-010J2	95.12843	541731	< 5.		UG/KG	9/28/95		m-Dichlorobenzene (1,3)
PRS16-010J2	95.12843	106467	< 5.		UG/KG	9/28/95		p-Dichlorobenzene (1,4)
PRS16-010J2	95.12843	75718	< 10.		UG/KG	9/28/95		Dichlorodifluoromethane

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J2	95.12843	75343	< 5.		UG/KG	9/28/95		1,1-Dichloroethane
PRS16-010J2	95.12843	107062	< 5.		UG/KG	9/28/95		1,2-Dichloroethane
PRS16-010J2	95.12843	75354	< 5.		UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010J2	95.12843	156605	< 5.		UG/KG	9/28/95		trans-1,2-Dichloroethene
PRS16-010J2	95.12843	156592	< 5.		UG/KG	9/28/95		cis-1,2-Dichloroethylene
PRS16-010J2	95.12843	78875	< 5.		UG/KG	9/28/95		1,2-Dichloropropane
PRS16-010J2	95.12843	142289	< 5.		UG/KG	9/28/95		1,3-Dichloropropane
PRS16-010J2	95.12843	594207	< 5.		UG/KG	9/28/95		2,2-Dichloropropane
PRS16-010J2	95.12843	563586	< 5.		UG/KG	9/28/95		1,1-Dichloropropene
PRS16-010J2	95.12843	10061015	< 5.		UG/KG	9/28/95		cis-1,3-Dichloropropene
PRS16-010J2	95.12843	10061026	< 5.		UG/KG	9/28/95		trans-1,3-Dichloropropene
PRS16-010J2	95.12843	100414	< 5.		UG/KG	9/28/95		Ethylbenzene
PRS16-010J2	95.12843	106934	< 5.		UG/KG	9/28/95		Ethylene dibromide
PRS16-010J2	95.12843	591786	< 21.		UG/KG	9/28/95		2-Hexanone
PRS16-010J2	95.12843	98828	< 5.		UG/KG	9/28/95		Isopropylbenzene
PRS16-010J2	95.12843	99876	< 5.		UG/KG	9/28/95		4-Isopropyltoluene
PRS16-010J2	95.12843	74884	< 5.		UG/KG	9/28/95		Methyl iodide
PRS16-010J2	95.12843	108101	< 21.		UG/KG	9/28/95		4-Methyl-2-pentanone
PRS16-010J2	95.12843	75092	< 5.		UG/KG	9/28/95		Methylene chloride
PRS16-010J2	95.12843	103651	< 5.		UG/KG	9/28/95		Propylbenzene
PRS16-010J2	95.12843	100425	< 5.		UG/KG	9/28/95		Styrene
PRS16-010J2	95.12843	630206	< 5.		UG/KG	9/28/95		1,1,1,2-Tetrachloroethane
PRS16-010J2	95.12843	79345	< 5.		UG/KG	9/28/95		1,1,2,2-Tetrachloroethane
PRS16-010J2	95.12843	127184	< 5.		UG/KG	9/28/95		Tetrachloroethylene
PRS16-010J2	95.12843	108883	< 5.		UG/KG	9/28/95		Toluene
PRS16-010J2	95.12843	76131	< 5.		UG/KG	9/28/95		1,1,2-Trichloro-1,2,2-trifluoroethane
PRS16-010J2	95.12843	71556	< 5.		UG/KG	9/28/95		1,1,1-Trichloroethane
PRS16-010J2	95.12843	79005	< 5.		UG/KG	9/28/95		1,1,2-Trichloroethane
PRS16-010J2	95.12843	79016	< 5.		UG/KG	9/28/95		Trichloroethene
PRS16-010J2	95.12843	75694	< 5.		UG/KG	9/28/95		Trichlorofluoromethane
PRS16-010J2	95.12843	96184	< 5.		UG/KG	9/28/95		1,2,3-Trichloropropane
PRS16-010J2	95.12843	95636	< 5.		UG/KG	9/28/95		1,2,4-Trimethylbenzene
PRS16-010J2	95.12843	108678	< 5.		UG/KG	9/28/95		1,3,5-Trimethylbenzene
PRS16-010J2	95.12843	75014	< 10.		UG/KG	9/28/95		Vinyl chloride
PRS16-010J2	95.12843	1330207	< 5.		UG/KG	9/28/95		Mixed-Xylenes (o ± m ± p)

[illegible] Identified Compounds in Customer Sample # 95.12843

none

********** CST ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: B080311 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12844 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/10/95 Date Analyzed: 8/10/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J3	95.12844	67641	< 21.		UG/KG	9/28/95		Acetone
PRS16-010J3	95.12844	71432	< 5.		UG/KG	9/28/95		Benzene
PRS16-010J3	95.12844	108861	< 5.		UG/KG	9/28/95		Bromobenzene
PRS16-010J3	95.12844	74975	< 5.		UG/KG	9/28/95		Bromochloromethane
PRS16-010J3	95.12844	75274	< 5.		UG/KG	9/28/95		Bromodichloromethane
PRS16-010J3	95.12844	75252	< 5.		UG/KG	9/28/95		Bromoform
PRS16-010J3	95.12844	74839	< 10.		UG/KG	9/28/95		Bromomethane
PRS16-010J3	95.12844	78933	< 21.		UG/KG	9/28/95		2-Butanone
PRS16-010J3	95.12844	104518	< 5.		UG/KG	9/28/95		n-Butylbenzene
PRS16-010J3	95.12844	135988	< 5.		UG/KG	9/28/95		sec-Butylbenzene
PRS16-010J3	95.12844	98066	< 5.		UG/KG	9/28/95		tert-Butylbenzene
PRS16-010J3	95.12844	75150	< 5.		UG/KG	9/28/95		Carbon disulfide
PRS16-010J3	95.12844	56235	< 5.		UG/KG	9/28/95		Carbon tetrachloride
PRS16-010J3	95.12844	108907	< 5.		UG/KG	9/28/95		Chlorobenzene
PRS16-010J3	95.12844	124481	< 5.		UG/KG	9/28/95		Chlorodibromomethane
PRS16-010J3	95.12844	75003	< 10.		UG/KG	9/28/95		Chloroethane
PRS16-010J3	95.12844	67663	< 5.		UG/KG	9/28/95		Chloroform
PRS16-010J3	95.12844	74873	< 10.		UG/KG	9/28/95		Chloromethane
PRS16-010J3	95.12844	95498	< 5.		UG/KG	9/28/95		o-Chlorotoluene
PRS16-010J3	95.12844	106434	< 5.		UG/KG	9/28/95		p-Chlorotoluene
PRS16-010J3	95.12844	96128	< 10.		UG/KG	9/28/95		1,2-Dibromo-3-chloropropane
PRS16-010J3	95.12844	74953	< 5.		UG/KG	9/28/95		Dibromomethane
PRS16-010J3	95.12844	95501	< 5.		UG/KG	9/28/95		o-Dichlorobenzene (1,2)
PRS16-010J3	95.12844	541731	< 5.		UG/KG	9/28/95		m-Dichlorobenzene (1,3)
PRS16-010J3	95.12844	106467	< 5.		UG/KG	9/28/95		p-Dichlorobenzene (1,4)
PRS16-010J3	95.12844	75718	< 10.		UG/KG	9/28/95		Dichlorodifluoromethane

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J3	95.12844	75343	< 5.		UG/KG	9/28/95		1,1-Dichloroethane
PRS16-010J3	95.12844	107062	< 5.		UG/KG	9/28/95		1,2-Dichloroethane
PRS16-010J3	95.12844	75354	< 5.		UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010J3	95.12844	156605	< 5.		UG/KG	9/28/95		trans-1,2-Dichloroethene
PRS16-010J3	95.12844	156592	< 5.		UG/KG	9/28/95		cis-1,2-Dichloroethylene
PRS16-010J3	95.12844	78875	< 5.		UG/KG	9/28/95		1,2-Dichloropropane
PRS16-010J3	95.12844	142289	< 5.		UG/KG	9/28/95		1,3-Dichloropropane
PRS16-010J3	95.12844	594207	< 5.		UG/KG	9/28/95		2,2-Dichloropropane
PRS16-010J3	95.12844	563586	< 5.		UG/KG	9/28/95		1,1-Dichloropropene
PRS16-010J3	95.12844	10061015	< 5.		UG/KG	9/28/95		cis-1,3-Dichloropropene
PRS16-010J3	95.12844	10061026	< 5.		UG/KG	9/28/95		trans-1,3-Dichloropropene
PRS16-010J3	95.12844	100414	< 5.		UG/KG	9/28/95		Ethylbenzene
PRS16-010J3	95.12844	106934	< 5.		UG/KG	9/28/95		Ethylene dibromide
PRS16-010J3	95.12844	591786	< 21.		UG/KG	9/28/95		2-Hexanone
PRS16-010J3	95.12844	98828	< 5.		UG/KG	9/28/95		Isopropylbenzene
PRS16-010J3	95.12844	99876	< 5.		UG/KG	9/28/95		4-Isopropyltoluene
PRS16-010J3	95.12844	74884	< 5.		UG/KG	9/28/95		Methyl iodide
PRS16-010J3	95.12844	108101	< 21.		UG/KG	9/28/95		4-Methyl-2-pentanone
PRS16-010J3	95.12844	75092	< 5.		UG/KG	9/28/95		Methylene chloride
PRS16-010J3	95.12844	103651	< 5.		UG/KG	9/28/95		Propylbenzene
PRS16-010J3	95.12844	100425	< 5.		UG/KG	9/28/95		Styrene
PRS16-010J3	95.12844	630206	< 5.		UG/KG	9/28/95		1,1,1,2-Tetrachloroethane
PRS16-010J3	95.12844	79345	< 5.		UG/KG	9/28/95		1,1,2,2-Tetrachloroethane
PRS16-010J3	95.12844	127184	< 5.		UG/KG	9/28/95		Tetrachloroethylene
PRS16-010J3	95.12844	108883	< 5.		UG/KG	9/28/95		Toluene
PRS16-010J3	95.12844	76131	< 5.		UG/KG	9/28/95		1,1,2-Trichloro-1,2,2-trifluoroethane
PRS16-010J3	95.12844	71556	< 5.		UG/KG	9/28/95		1,1,1-Trichloroethane
PRS16-010J3	95.12844	79005	< 5.		UG/KG	9/28/95		1,1,2-Trichloroethane
PRS16-010J3	95.12844	79016	< 5.		UG/KG	9/28/95		Trichloroethene
PRS16-010J3	95.12844	75694	< 5.		UG/KG	9/28/95		Trichlorofluoromethane
PRS16-010J3	95.12844	96184	< 5.		UG/KG	9/28/95		1,2,3-Trichloropropane
PRS16-010J3	95.12844	95636	< 5.		UG/KG	9/28/95		1,2,4-Trimethylbenzene
PRS16-010J3	95.12844	108678	< 5.		UG/KG	9/28/95		1,3,5-Trimethylbenzene
PRS16-010J3	95.12844	75014	< 10.		UG/KG	9/28/95		Vinyl chloride
PRS16-010J3	95.12844	1330207	< 5.		UG/KG	9/28/95		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 95.12844

none

********** CST ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: B080311 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12845 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/09/95 Date Analyzed: 8/09/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J4	95.12845	67641	< 20.		UG/KG	9/28/95		Acetone
PRS16-010J4	95.12845	71432	< 5.		UG/KG	9/28/95		Benzene
PRS16-010J4	95.12845	108861	< 5.		UG/KG	9/28/95		Bromobenzene
PRS16-010J4	95.12845	74975	< 5.		UG/KG	9/28/95		Bromochloromethane
PRS16-010J4	95.12845	75274	< 5.		UG/KG	9/28/95		Bromodichloromethane
PRS16-010J4	95.12845	75252	< 5.		UG/KG	9/28/95		Bromoform
PRS16-010J4	95.12845	74839	< 10.		UG/KG	9/28/95		Bromomethane
PRS16-010J4	95.12845	78933	< 20.		UG/KG	9/28/95		2-Butanone
PRS16-010J4	95.12845	104518	< 5.		UG/KG	9/28/95		n-Butylbenzene
PRS16-010J4	95.12845	135988	< 5.		UG/KG	9/28/95		sec-Butylbenzene
PRS16-010J4	95.12845	98066	< 5.		UG/KG	9/28/95		tert-Butylbenzene
PRS16-010J4	95.12845	75150	< 5.		UG/KG	9/28/95		Carbon disulfide
PRS16-010J4	95.12845	56235	< 5.		UG/KG	9/28/95		Carbon tetrachloride
PRS16-010J4	95.12845	108907	< 5.		UG/KG	9/28/95		Chlorobenzene
PRS16-010J4	95.12845	124481	< 5.		UG/KG	9/28/95		Chlorodibromomethane
PRS16-010J4	95.12845	75003	< 10.		UG/KG	9/28/95		Chloroethane
PRS16-010J4	95.12845	67663	< 5.		UG/KG	9/28/95		Chloroform
PRS16-010J4	95.12845	74873	< 10.		UG/KG	9/28/95		Chloromethane
PRS16-010J4	95.12845	95498	< 5.		UG/KG	9/28/95		o-Chlorotoluene
PRS16-010J4	95.12845	106434	< 5.		UG/KG	9/28/95		p-Chlorotoluene
PRS16-010J4	95.12845	96128	< 10.		UG/KG	9/28/95		1,2-Dibromo-3-chloropropane
PRS16-010J4	95.12845	74953	< 5.		UG/KG	9/28/95		Dibromomethane
PRS16-010J4	95.12845	95501	< 5.		UG/KG	9/28/95		o-Dichlorobenzene (1,2)
PRS16-010J4	95.12845	541731	< 5.		UG/KG	9/28/95		m-Dichlorobenzene (1,3)
PRS16-010J4	95.12845	106467	< 5.		UG/KG	9/28/95		p-Dichlorobenzene (1,4)
PRS16-010J4	95.12845	75718	< 10.		UG/KG	9/28/95		Dichlorodifluoromethane

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J4	95.12845	75343	< 5.		UG/KG	9/28/95		1,1-Dichloroethane
PRS16-010J4	95.12845	107062	< 5.		UG/KG	9/28/95		1,2-Dichloroethane
PRS16-010J4	95.12845	75354	< 5.		UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010J4	95.12845	156605	< 5.		UG/KG	9/28/95		trans-1,2-Dichloroethene
PRS16-010J4	95.12845	156592	< 5.		UG/KG	9/28/95		cis-1,2-Dichloroethylene
PRS16-010J4	95.12845	78875	< 5.		UG/KG	9/28/95		1,2-Dichloropropane
PRS16-010J4	95.12845	142289	< 5.		UG/KG	9/28/95		1,3-Dichloropropane
PRS16-010J4	95.12845	594207	< 5.		UG/KG	9/28/95		2,2-Dichloropropane
PRS16-010J4	95.12845	563586	< 5.		UG/KG	9/28/95		1,1-Dichloropropene
PRS16-010J4	95.12845	10061015	< 5.		UG/KG	9/28/95		cis-1,3-Dichloropropene
PRS16-010J4	95.12845	10061026	< 5.		UG/KG	9/28/95		trans-1,3-Dichloropropene
PRS16-010J4	95.12845	100414	< 5.		UG/KG	9/28/95		Ethylbenzene
PRS16-010J4	95.12845	106934	< 5.		UG/KG	9/28/95		Ethylene dibromide
PRS16-010J4	95.12845	591786	< 20.		UG/KG	9/28/95		2-Hexanone
PRS16-010J4	95.12845	98828	< 5.		UG/KG	9/28/95		Isopropylbenzene
PRS16-010J4	95.12845	99876	< 5.		UG/KG	9/28/95		4-Isopropyltoluene
PRS16-010J4	95.12845	74884	< 5.		UG/KG	9/28/95		Methyl iodide
PRS16-010J4	95.12845	108101	< 20.		UG/KG	9/28/95		4-Methyl-2-pentanone
PRS16-010J4	95.12845	75092	< 5.		UG/KG	9/28/95		Methylene chloride
PRS16-010J4	95.12845	103651	< 5.		UG/KG	9/28/95		Propylbenzene
PRS16-010J4	95.12845	100425	< 5.		UG/KG	9/28/95		Styrene
PRS16-010J4	95.12845	630206	< 5.		UG/KG	9/28/95		1,1,1,2-Tetrachloroethane
PRS16-010J4	95.12845	79345	< 5.		UG/KG	9/28/95		1,1,2,2-Tetrachloroethane
PRS16-010J4	95.12845	127184	< 5.		UG/KG	9/28/95		Tetrachloroethylene
PRS16-010J4	95.12845	108883	< 5.		UG/KG	9/28/95		Toluene
PRS16-010J4	95.12845	76131	< 5.		UG/KG	9/28/95		1,1,2-Trichloro-1,2,2-trifluoroethane
PRS16-010J4	95.12845	71556	< 5.		UG/KG	9/28/95		1,1,1-Trichloroethane
PRS16-010J4	95.12845	79005	< 5.		UG/KG	9/28/95		1,1,2-Trichloroethane
PRS16-010J4	95.12845	79016	< 5.		UG/KG	9/28/95		Trichloroethene
PRS16-010J4	95.12845	75694	< 5.		UG/KG	9/28/95		Trichlorofluoromethane
PRS16-010J4	95.12845	96184	< 5.		UG/KG	9/28/95		1,2,3-Trichloropropane
PRS16-010J4	95.12845	95636	< 5.		UG/KG	9/28/95		1,2,4-Trimethylbenzene
PRS16-010J4	95.12845	108678	< 5.		UG/KG	9/28/95		1,3,5-Trimethylbenzene
PRS16-010J4	95.12845	75014	< 10.		UG/KG	9/28/95		Vinyl chloride
PRS16-010J4	95.12845	1330207	< 5.		UG/KG	9/28/95		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 95.12845

none

********** CST ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: B080311 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12846 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/10/95 Date Analyzed: 8/10/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J5	95.12846	67641	< 19.		UG/KG	9/28/95		Acetone
PRS16-010J5	95.12846	71432	< 5.		UG/KG	9/28/95		Benzene
PRS16-010J5	95.12846	108861	< 5.		UG/KG	9/28/95		Bromobenzene
PRS16-010J5	95.12846	74975	< 5.		UG/KG	9/28/95		Bromochloromethane
PRS16-010J5	95.12846	75274	< 5.		UG/KG	9/28/95		Bromodichloromethane
PRS16-010J5	95.12846	75252	< 5.		UG/KG	9/28/95		Bromoform
PRS16-010J5	95.12846	74839	< 10.		UG/KG	9/28/95		Bromomethane
PRS16-010J5	95.12846	78933	< 19.		UG/KG	9/28/95		2-Butanone
PRS16-010J5	95.12846	104518	< 5.		UG/KG	9/28/95		n-Butylbenzene
PRS16-010J5	95.12846	135988	< 5.		UG/KG	9/28/95		sec-Butylbenzene
PRS16-010J5	95.12846	98066	< 5.		UG/KG	9/28/95		tert-Butylbenzene
PRS16-010J5	95.12846	75150	< 5.		UG/KG	9/28/95		Carbon disulfide
PRS16-010J5	95.12846	56235	< 5.		UG/KG	9/28/95		Carbon tetrachloride
PRS16-010J5	95.12846	108907	< 5.		UG/KG	9/28/95		Chlorobenzene
PRS16-010J5	95.12846	124481	< 5.		UG/KG	9/28/95		Chlorodibromomethane
PRS16-010J5	95.12846	75003	< 10.		UG/KG	9/28/95		Chloroethane
PRS16-010J5	95.12846	67663	< 5.		UG/KG	9/28/95		Chloroform
PRS16-010J5	95.12846	74873	< 10.		UG/KG	9/28/95		Chloromethane
PRS16-010J5	95.12846	95498	< 5.		UG/KG	9/28/95		o-Chlorotoluene
PRS16-010J5	95.12846	106434	< 5.		UG/KG	9/28/95		p-Chlorotoluene
PRS16-010J5	95.12846	96128	< 10.		UG/KG	9/28/95		1,2-Dibromo-3-chloropropane
PRS16-010J5	95.12846	74953	< 5.		UG/KG	9/28/95		Dibromomethane
PRS16-010J5	95.12846	95501	< 5.		UG/KG	9/28/95		o-Dichlorobenzene (1,2)
PRS16-010J5	95.12846	541731	< 5.		UG/KG	9/28/95		m-Dichlorobenzene (1,3)
PRS16-010J5	95.12846	106467	< 5.		UG/KG	9/28/95		p-Dichlorobenzene (1,4)
PRS16-010J5	95.12846	75718	< 10.		UG/KG	9/28/95		Dichlorodifluoromethane

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J5	95.12846	75343	< 5.		UG/KG	9/28/95		1,1-Dichloroethane
PRS16-010J5	95.12846	107062	< 5.		UG/KG	9/28/95		1,2-Dichloroethane
PRS16-010J5	95.12846	75354	< 5.		UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010J5	95.12846	156605	< 5.		UG/KG	9/28/95		trans-1,2-Dichloroethene
PRS16-010J5	95.12846	156592	< 5.		UG/KG	9/28/95		cis-1,2-Dichloroethylene
PRS16-010J5	95.12846	78875	< 5.		UG/KG	9/28/95		1,2-Dichloropropane
PRS16-010J5	95.12846	142289	< 5.		UG/KG	9/28/95		1,3-Dichloropropane
PRS16-010J5	95.12846	594207	< 5.		UG/KG	9/28/95		2,2-Dichloropropane
PRS16-010J5	95.12846	563586	< 5.		UG/KG	9/28/95		1,1-Dichloropropene
PRS16-010J5	95.12846	10061015	< 5.		UG/KG	9/28/95		cis-1,3-Dichloropropene
PRS16-010J5	95.12846	10061026	< 5.		UG/KG	9/28/95		trans-1,3-Dichloropropene
PRS16-010J5	95.12846	100414	< 5.		UG/KG	9/28/95		Ethylbenzene
PRS16-010J5	95.12846	106934	< 5.		UG/KG	9/28/95		Ethylene dibromide
PRS16-010J5	95.12846	591786	< 19.		UG/KG	9/28/95		2-Hexanone
PRS16-010J5	95.12846	98828	< 5.		UG/KG	9/28/95		Isopropylbenzene
PRS16-010J5	95.12846	99876	< 5.		UG/KG	9/28/95		4-Isopropyltoluene
PRS16-010J5	95.12846	74884	< 5.		UG/KG	9/28/95		Methyl iodide
PRS16-010J5	95.12846	108101	< 19.		UG/KG	9/28/95		4-Methyl-2-pentanone
PRS16-010J5	95.12846	75092	< 5.		UG/KG	9/28/95		Methylene chloride
PRS16-010J5	95.12846	103651	< 5.		UG/KG	9/28/95		Propylbenzene
PRS16-010J5	95.12846	100425	< 5.		UG/KG	9/28/95		Styrene
PRS16-010J5	95.12846	630206	< 5.		UG/KG	9/28/95		1,1,1,2-Tetrachloroethane
PRS16-010J5	95.12846	79345	< 5.		UG/KG	9/28/95		1,1,2,2-Tetrachloroethane
PRS16-010J5	95.12846	127184	< 5.		UG/KG	9/28/95		Tetrachloroethylene
PRS16-010J5	95.12846	108883	< 5.		UG/KG	9/28/95		Toluene
PRS16-010J5	95.12846	76131	< 5.		UG/KG	9/28/95		1,1,2-Trichloro-1,2,2-trifluoroethane
PRS16-010J5	95.12846	71556	< 5.		UG/KG	9/28/95		1,1,1-Trichloroethane
PRS16-010J5	95.12846	79005	< 5.		UG/KG	9/28/95		1,1,2-Trichloroethane
PRS16-010J5	95.12846	79016	< 5.		UG/KG	9/28/95		Trichloroethene
PRS16-010J5	95.12846	75694	< 5.		UG/KG	9/28/95		Trichlorofluoromethane
PRS16-010J5	95.12846	96184	< 5.		UG/KG	9/28/95		1,2,3-Trichloropropane
PRS16-010J5	95.12846	95636	< 5.		UG/KG	9/28/95		1,2,4-Trimethylbenzene
PRS16-010J5	95.12846	108678	< 5.		UG/KG	9/28/95		1,3,5-Trimethylbenzene
PRS16-010J5	95.12846	75014	< 10.		UG/KG	9/28/95		Vinyl chloride
PRS16-010J5	95.12846	1330207	< 5.		UG/KG	9/28/95		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 95.12846

none

********** CST ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: B080311 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12847 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/11/95 Date Analyzed: 8/11/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J6	95.12847	67641	< 21.		UG/KG	9/28/95		Acetone
PRS16-010J6	95.12847	71432	< 5.		UG/KG	9/28/95		Benzene
PRS16-010J6	95.12847	108861	< 5.		UG/KG	9/28/95		Bromobenzene
PRS16-010J6	95.12847	74975	< 5.		UG/KG	9/28/95		Bromochloromethane
PRS16-010J6	95.12847	75274	< 5.		UG/KG	9/28/95		Bromodichloromethane
PRS16-010J6	95.12847	75252	< 5.		UG/KG	9/28/95		Bromoform
PRS16-010J6	95.12847	74839	< 10.		UG/KG	9/28/95		Bromomethane
PRS16-010J6	95.12847	78933	< 21.		UG/KG	9/28/95		2-Butanone
PRS16-010J6	95.12847	104518	< 5.		UG/KG	9/28/95		n-Butylbenzene
PRS16-010J6	95.12847	135988	< 5.		UG/KG	9/28/95		sec-Butylbenzene
PRS16-010J6	95.12847	98066	< 5.		UG/KG	9/28/95		tert-Butylbenzene
PRS16-010J6	95.12847	75150	< 5.		UG/KG	9/28/95		Carbon disulfide
PRS16-010J6	95.12847	56235	< 5.		UG/KG	9/28/95		Carbon tetrachloride
PRS16-010J6	95.12847	108907	< 5.		UG/KG	9/28/95		Chlorobenzene
PRS16-010J6	95.12847	124481	< 5.		UG/KG	9/28/95		Chlorodibromomethane
PRS16-010J6	95.12847	75003	< 10.		UG/KG	9/28/95		Chloroethane
PRS16-010J6	95.12847	67663	< 5.		UG/KG	9/28/95		Chloroform
PRS16-010J6	95.12847	74873	< 10.		UG/KG	9/28/95		Chloromethane
PRS16-010J6	95.12847	95498	< 5.		UG/KG	9/28/95		o-Chlorotoluene
PRS16-010J6	95.12847	106434	< 5.		UG/KG	9/28/95		p-Chlorotoluene
PRS16-010J6	95.12847	96128	< 10.		UG/KG	9/28/95		1,2-Dibromo-3-chloropropane
PRS16-010J6	95.12847	74953	< 5.		UG/KG	9/28/95		Dibromomethane
PRS16-010J6	95.12847	95501	< 5.		UG/KG	9/28/95		o-Dichlorobenzene (1,2)
PRS16-010J6	95.12847	541731	< 5.		UG/KG	9/28/95		m-Dichlorobenzene (1,3)
PRS16-010J6	95.12847	106467	< 5.		UG/KG	9/28/95		p-Dichlorobenzene (1,4)
PRS16-010J6	95.12847	75718	< 10.		UG/KG	9/28/95		Dichlorodifluoromethane

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J6	95.12847	75343	< 5.		UG/KG	9/28/95		1,1-Dichloroethane
PRS16-010J6	95.12847	107062	< 5.		UG/KG	9/28/95		1,2-Dichloroethane
PRS16-010J6	95.12847	75354	< 5.		UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010J6	95.12847	156605	< 5.		UG/KG	9/28/95		trans-1,2-Dichloroethene
PRS16-010J6	95.12847	156592	< 5.		UG/KG	9/28/95		cis-1,2-Dichloroethylene
PRS16-010J6	95.12847	78875	< 5.		UG/KG	9/28/95		1,2-Dichloropropane
PRS16-010J6	95.12847	142289	< 5.		UG/KG	9/28/95		1,3-Dichloropropane
PRS16-010J6	95.12847	594207	< 5.		UG/KG	9/28/95		2,2-Dichloropropane
PRS16-010J6	95.12847	563586	< 5.		UG/KG	9/28/95		1,1-Dichloropropene
PRS16-010J6	95.12847	10061015	< 5.		UG/KG	9/28/95		cis-1,3-Dichloropropene
PRS16-010J6	95.12847	10061026	< 5.		UG/KG	9/28/95		trans-1,3-Dichloropropene
PRS16-010J6	95.12847	100414	< 5.		UG/KG	9/28/95		Ethylbenzene
PRS16-010J6	95.12847	106934	< 5.		UG/KG	9/28/95		Ethylene dibromide
PRS16-010J6	95.12847	591786	< 21.		UG/KG	9/28/95		2-Hexanone
PRS16-010J6	95.12847	98828	< 5.		UG/KG	9/28/95		Isopropylbenzene
PRS16-010J6	95.12847	99876	< 5.		UG/KG	9/28/95		4-Isopropyltoluene
PRS16-010J6	95.12847	74884	< 5.		UG/KG	9/28/95		Methyl iodide
PRS16-010J6	95.12847	108101	< 21.		UG/KG	9/28/95		4-Methyl-2-pentanone
PRS16-010J6	95.12847	75092	< 5.		UG/KG	9/28/95		Methylene chloride
PRS16-010J6	95.12847	103651	< 5.		UG/KG	9/28/95		Propylbenzene
PRS16-010J6	95.12847	100425	< 5.		UG/KG	9/28/95		Styrene
PRS16-010J6	95.12847	630206	< 5.		UG/KG	9/28/95		1,1,1,2-Tetrachloroethane
PRS16-010J6	95.12847	79345	< 5.		UG/KG	9/28/95		1,1,2,2-Tetrachloroethane
PRS16-010J6	95.12847	127184	< 5.		UG/KG	9/28/95		Tetrachloroethylene
PRS16-010J6	95.12847	108883	< 5.		UG/KG	9/28/95		Toluene
PRS16-010J6	95.12847	76131	< 5.		UG/KG	9/28/95		1,1,2-Trichloro-1,2,2-trifluoroethane
PRS16-010J6	95.12847	71556	< 5.		UG/KG	9/28/95		1,1,1-Trichloroethane
PRS16-010J6	95.12847	79005	< 5.		UG/KG	9/28/95		1,1,2-Trichloroethane
PRS16-010J6	95.12847	79016	< 5.		UG/KG	9/28/95		Trichloroethene
PRS16-010J6	95.12847	75694	< 5.		UG/KG	9/28/95		Trichlorofluoromethane
PRS16-010J6	95.12847	96184	< 5.		UG/KG	9/28/95		1,2,3-Trichloropropane
PRS16-010J6	95.12847	95636	< 5.		UG/KG	9/28/95		1,2,4-Trimethylbenzene
PRS16-010J6	95.12847	108678	< 5.		UG/KG	9/28/95		1,3,5-Trimethylbenzene
PRS16-010J6	95.12847	75014	< 10.		UG/KG	9/28/95		Vinyl chloride
PRS16-010J6	95.12847	1330207	< 5.		UG/KG	9/28/95		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 95.12847

none

********** CST ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: B080311 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12848 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/10/95 Date Analyzed: 8/10/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J7	95.12848	67641	< 19.		UG/KG	9/28/95		Acetone
PRS16-010J7	95.12848	71432	< 5.		UG/KG	9/28/95		Benzene
PRS16-010J7	95.12848	108861	< 5.		UG/KG	9/28/95		Bromobenzene
PRS16-010J7	95.12848	74975	< 5.		UG/KG	9/28/95		Bromochloromethane
PRS16-010J7	95.12848	75274	< 5.		UG/KG	9/28/95		Bromodichloromethane
PRS16-010J7	95.12848	75252	< 5.		UG/KG	9/28/95		Bromoform
PRS16-010J7	95.12848	74839	< 10.		UG/KG	9/28/95		Bromomethane
PRS16-010J7	95.12848	78933	< 19.		UG/KG	9/28/95		2-Butanone
PRS16-010J7	95.12848	104518	< 5.		UG/KG	9/28/95		n-Butylbenzene
PRS16-010J7	95.12848	135988	< 5.		UG/KG	9/28/95		sec-Butylbenzene
PRS16-010J7	95.12848	98066	< 5.		UG/KG	9/28/95		tert-Butylbenzene
PRS16-010J7	95.12848	75150	< 5.		UG/KG	9/28/95		Carbon disulfide
PRS16-010J7	95.12848	56235	< 5.		UG/KG	9/28/95		Carbon tetrachloride
PRS16-010J7	95.12848	108907	< 5.		UG/KG	9/28/95		Chlorobenzene
PRS16-010J7	95.12848	124481	< 5.		UG/KG	9/28/95		Chlorodibromomethane
PRS16-010J7	95.12848	75003	< 10.		UG/KG	9/28/95		Chloroethane
PRS16-010J7	95.12848	67663	< 5.		UG/KG	9/28/95		Chloroform
PRS16-010J7	95.12848	74873	< 10.		UG/KG	9/28/95		Chloromethane
PRS16-010J7	95.12848	95498	< 5.		UG/KG	9/28/95		o-Chlorotoluene
PRS16-010J7	95.12848	106434	< 5.		UG/KG	9/28/95		p-Chlorotoluene
PRS16-010J7	95.12848	96128	< 10.		UG/KG	9/28/95		1,2-Dibromo-3-chloropropane
PRS16-010J7	95.12848	74953	< 5.		UG/KG	9/28/95		Dibromomethane
PRS16-010J7	95.12848	95501	< 5.		UG/KG	9/28/95		o-Dichlorobenzene (1,2)
PRS16-010J7	95.12848	541731	< 5.		UG/KG	9/28/95		m-Dichlorobenzene (1,3)
PRS16-010J7	95.12848	106467	< 5.		UG/KG	9/28/95		p-Dichlorobenzene (1,4)
PRS16-010J7	95.12848	75718	< 10.		UG/KG	9/28/95		Dichlorodifluoromethane

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J7	95.12848	75343	< 5.		UG/KG	9/28/95		1,1-Dichloroethane
PRS16-010J7	95.12848	107062	< 5.		UG/KG	9/28/95		1,2-Dichloroethane
PRS16-010J7	95.12848	75354	< 5.		UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010J7	95.12848	156605	< 5.		UG/KG	9/28/95		trans-1,2-Dichloroethene
PRS16-010J7	95.12848	156592	< 5.		UG/KG	9/28/95		cis-1,2-Dichloroethylene
PRS16-010J7	95.12848	78875	< 5.		UG/KG	9/28/95		1,2-Dichloropropane
PRS16-010J7	95.12848	142289	< 5.		UG/KG	9/28/95		1,3-Dichloropropane
PRS16-010J7	95.12848	594207	< 5.		UG/KG	9/28/95		2,2-Dichloropropane
PRS16-010J7	95.12848	563586	< 5.		UG/KG	9/28/95		1,1-Dichloropropene
PRS16-010J7	95.12848	10061015	< 5.		UG/KG	9/28/95		cis-1,3-Dichloropropene
PRS16-010J7	95.12848	10061026	< 5.		UG/KG	9/28/95		trans-1,3-Dichloropropene
PRS16-010J7	95.12848	100414	< 5.		UG/KG	9/28/95		Ethylbenzene
PRS16-010J7	95.12848	106934	< 5.		UG/KG	9/28/95		Ethylene dibromide
PRS16-010J7	95.12848	591786	< 19.		UG/KG	9/28/95		2-Hexanone
PRS16-010J7	95.12848	98828	< 5.		UG/KG	9/28/95		Isopropylbenzene
PRS16-010J7	95.12848	99876	< 5.		UG/KG	9/28/95		4-Isopropyltoluene
PRS16-010J7	95.12848	74884	< 5.		UG/KG	9/28/95		Methyl iodide
PRS16-010J7	95.12848	108101	< 19.		UG/KG	9/28/95		4-Methyl-2-pentanone
PRS16-010J7	95.12848	75092	< 5.		UG/KG	9/28/95		Methylene chloride
PRS16-010J7	95.12848	103651	< 5.		UG/KG	9/28/95		Propylbenzene
PRS16-010J7	95.12848	100425	< 5.		UG/KG	9/28/95		Styrene
PRS16-010J7	95.12848	630206	< 5.		UG/KG	9/28/95		1,1,1,2-Tetrachloroethane
PRS16-010J7	95.12848	79345	< 5.		UG/KG	9/28/95		1,1,2,2-Tetrachloroethane
PRS16-010J7	95.12848	127184	< 5.		UG/KG	9/28/95		Tetrachloroethylene
PRS16-010J7	95.12848	108883	< 5.		UG/KG	9/28/95		Toluene
PRS16-010J7	95.12848	76131	< 5.		UG/KG	9/28/95		1,1,2-Trichloro-1,2,2-trifluoroethane
PRS16-010J7	95.12848	71556	< 5.		UG/KG	9/28/95		1,1,1-Trichloroethane
PRS16-010J7	95.12848	79005	< 5.		UG/KG	9/28/95		1,1,2-Trichloroethane
PRS16-010J7	95.12848	79016	< 5.		UG/KG	9/28/95		Trichloroethene
PRS16-010J7	95.12848	75694	< 5.		UG/KG	9/28/95		Trichlorofluoromethane
PRS16-010J7	95.12848	96184	< 5.		UG/KG	9/28/95		1,2,3-Trichloropropane
PRS16-010J7	95.12848	95636	< 5.		UG/KG	9/28/95		1,2,4-Trimethylbenzene
PRS16-010J7	95.12848	108678	< 5.		UG/KG	9/28/95		1,3,5-Trimethylbenzene
PRS16-010J7	95.12848	75014	< 10.		UG/KG	9/28/95		Vinyl chloride
PRS16-010J7	95.12848	1330207	< 5.		UG/KG	9/28/95		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 95.12848

none

********** CST ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: B080311 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12849 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/09/95 Date Analyzed: 8/09/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J8	95.12849	67641	< 20.		UG/KG	9/28/95		Acetone
PRS16-010J8	95.12849	71432	< 5.		UG/KG	9/28/95		Benzene
PRS16-010J8	95.12849	108861	< 5.		UG/KG	9/28/95		Bromobenzene
PRS16-010J8	95.12849	74975	< 5.		UG/KG	9/28/95		Bromochloromethane
PRS16-010J8	95.12849	75274	< 5.		UG/KG	9/28/95		Bromodichloromethane
PRS16-010J8	95.12849	75252	< 5.		UG/KG	9/28/95		Bromoform
PRS16-010J8	95.12849	74839	< 10.		UG/KG	9/28/95		Bromomethane
PRS16-010J8	95.12849	78933	< 20.		UG/KG	9/28/95		2-Butanone
PRS16-010J8	95.12849	104518	< 5.		UG/KG	9/28/95		n-Butylbenzene
PRS16-010J8	95.12849	135988	< 5.		UG/KG	9/28/95		sec-Butylbenzene
PRS16-010J8	95.12849	98066	< 5.		UG/KG	9/28/95		tert-Butylbenzene
PRS16-010J8	95.12849	75150	< 5.		UG/KG	9/28/95		Carbon disulfide
PRS16-010J8	95.12849	56235	< 5.		UG/KG	9/28/95		Carbon tetrachloride
PRS16-010J8	95.12849	108907	< 5.		UG/KG	9/28/95		Chlorobenzene
PRS16-010J8	95.12849	124481	< 5.		UG/KG	9/28/95		Chlorodibromomethane
PRS16-010J8	95.12849	75003	< 10.		UG/KG	9/28/95		Chloroethane
PRS16-010J8	95.12849	67663	< 5.		UG/KG	9/28/95		Chloroform
PRS16-010J8	95.12849	74873	< 10.		UG/KG	9/28/95		Chloromethane
PRS16-010J8	95.12849	95498	< 5.		UG/KG	9/28/95		o-Chlorotoluene
PRS16-010J8	95.12849	106434	< 5.		UG/KG	9/28/95		p-Chlorotoluene
PRS16-010J8	95.12849	96128	< 10.		UG/KG	9/28/95		1,2-Dibromo-3-chloropropane
PRS16-010J8	95.12849	74953	< 5.		UG/KG	9/28/95		Dibromomethane
PRS16-010J8	95.12849	95501	< 5.		UG/KG	9/28/95		o-Dichlorobenzene (1,2)
PRS16-010J8	95.12849	541731	< 5.		UG/KG	9/28/95		m-Dichlorobenzene (1,3)
PRS16-010J8	95.12849	106467	< 5.		UG/KG	9/28/95		p-Dichlorobenzene (1,4)
PRS16-010J8	95.12849	75718	< 10.		UG/KG	9/28/95		Dichlorodifluoromethane

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J8	95.12849	75343	< 5.		UG/KG	9/28/95		1,1-Dichloroethane
PRS16-010J8	95.12849	107062	< 5.		UG/KG	9/28/95		1,2-Dichloroethane
PRS16-010J8	95.12849	75354	< 5.		UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010J8	95.12849	156605	< 5.		UG/KG	9/28/95		trans-1,2-Dichloroethene
PRS16-010J8	95.12849	156592	< 5.		UG/KG	9/28/95		cis-1,2-Dichloroethylene
PRS16-010J8	95.12849	78875	< 5.		UG/KG	9/28/95		1,2-Dichloropropane
PRS16-010J8	95.12849	142289	< 5.		UG/KG	9/28/95		1,3-Dichloropropane
PRS16-010J8	95.12849	594207	< 5.		UG/KG	9/28/95		2,2-Dichloropropane
PRS16-010J8	95.12849	563586	< 5.		UG/KG	9/28/95		1,1-Dichloropropene
PRS16-010J8	95.12849	10061015	< 5.		UG/KG	9/28/95		cis-1,3-Dichloropropene
PRS16-010J8	95.12849	10061026	< 5.		UG/KG	9/28/95		trans-1,3-Dichloropropene
PRS16-010J8	95.12849	100414	< 5.		UG/KG	9/28/95		Ethylbenzene
PRS16-010J8	95.12849	106934	< 5.		UG/KG	9/28/95		Ethylene dibromide
PRS16-010J8	95.12849	591786	< 20.		UG/KG	9/28/95		2-Hexanone
PRS16-010J8	95.12849	98828	< 5.		UG/KG	9/28/95		Isopropylbenzene
PRS16-010J8	95.12849	99876	< 5.		UG/KG	9/28/95		4-Isopropyltoluene
PRS16-010J8	95.12849	74884	< 5.		UG/KG	9/28/95		Methyl iodide
PRS16-010J8	95.12849	108101	< 20.		UG/KG	9/28/95		4-Methyl-2-pentanone
PRS16-010J8	95.12849	75092	< 5.		UG/KG	9/28/95		Methylene chloride
PRS16-010J8	95.12849	103651	< 5.		UG/KG	9/28/95		Propylbenzene
PRS16-010J8	95.12849	100425	< 5.		UG/KG	9/28/95		Styrene
PRS16-010J8	95.12849	630206	< 5.		UG/KG	9/28/95		1,1,1,2-Tetrachloroethane
PRS16-010J8	95.12849	79345	< 5.		UG/KG	9/28/95		1,1,2,2-Tetrachloroethane
PRS16-010J8	95.12849	127184	< 5.		UG/KG	9/28/95		Tetrachloroethylene
PRS16-010J8	95.12849	108883	< 5.		UG/KG	9/28/95		Toluene
PRS16-010J8	95.12849	76131	< 5.		UG/KG	9/28/95		1,1,2-Trichloro-1,2,2-trifluoroethane
PRS16-010J8	95.12849	71556	< 5.		UG/KG	9/28/95		1,1,1-Trichloroethane
PRS16-010J8	95.12849	79005	< 5.		UG/KG	9/28/95		1,1,2-Trichloroethane
PRS16-010J8	95.12849	79016	< 5.		UG/KG	9/28/95		Trichloroethene
PRS16-010J8	95.12849	75694	< 5.		UG/KG	9/28/95		Trichlorofluoromethane
PRS16-010J8	95.12849	96184	< 5.		UG/KG	9/28/95		1,2,3-Trichloropropane
PRS16-010J8	95.12849	95636	< 5.		UG/KG	9/28/95		1,2,4-Trimethylbenzene
PRS16-010J8	95.12849	108678	< 5.		UG/KG	9/28/95		1,3,5-Trimethylbenzene
PRS16-010J8	95.12849	75014	< 10.		UG/KG	9/28/95		Vinyl chloride
PRS16-010J8	95.12849	1330207	< 5.		UG/KG	9/28/95		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 95.12849

none

********** CST ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: B080311 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12850 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/10/95 Date Analyzed: 8/10/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J9	95.12850	67641	39.	11.7	UG/KG	9/28/95		Acetone
PRS16-010J9	95.12850	71432	< 5.		UG/KG	9/28/95		Benzene
PRS16-010J9	95.12850	108861	< 5.		UG/KG	9/28/95		Bromobenzene
PRS16-010J9	95.12850	74975	< 5.		UG/KG	9/28/95		Bromochloromethane
PRS16-010J9	95.12850	75274	< 5.		UG/KG	9/28/95		Bromodichloromethane
PRS16-010J9	95.12850	75252	< 5.		UG/KG	9/28/95		Bromoform
PRS16-010J9	95.12850	74839	< 10.		UG/KG	9/28/95		Bromomethane
PRS16-010J9	95.12850	78933	< 20.		UG/KG	9/28/95		2-Butanone
PRS16-010J9	95.12850	104518	< 5.		UG/KG	9/28/95		n-Butylbenzene
PRS16-010J9	95.12850	135988	< 5.		UG/KG	9/28/95		sec-Butylbenzene
PRS16-010J9	95.12850	98066	< 5.		UG/KG	9/28/95		tert-Butylbenzene
PRS16-010J9	95.12850	75150	< 5.		UG/KG	9/28/95		Carbon disulfide
PRS16-010J9	95.12850	56235	< 5.		UG/KG	9/28/95		Carbon tetrachloride
PRS16-010J9	95.12850	108907	< 5.		UG/KG	9/28/95		Chlorobenzene
PRS16-010J9	95.12850	124481	< 5.		UG/KG	9/28/95		Chlorodibromomethane
PRS16-010J9	95.12850	75003	< 10.		UG/KG	9/28/95		Chloroethane
PRS16-010J9	95.12850	67663	< 5.		UG/KG	9/28/95		Chloroform
PRS16-010J9	95.12850	74873	< 10.		UG/KG	9/28/95		Chloromethane
PRS16-010J9	95.12850	95498	< 5.		UG/KG	9/28/95		o-Chlorotoluene
PRS16-010J9	95.12850	106434	< 5.		UG/KG	9/28/95		p-Chlorotoluene
PRS16-010J9	95.12850	96128	< 10.		UG/KG	9/28/95		1,2-Dibromo-3-chloropropane
PRS16-010J9	95.12850	74953	< 5.		UG/KG	9/28/95		Dibromomethane
PRS16-010J9	95.12850	95501	< 5.		UG/KG	9/28/95		o-Dichlorobenzene (1,2)
PRS16-010J9	95.12850	541731	< 5.		UG/KG	9/28/95		m-Dichlorobenzene (1,3)
PRS16-010J9	95.12850	106467	< 5.		UG/KG	9/28/95		p-Dichlorobenzene (1,4)
PRS16-010J9	95.12850	75718	< 10.		UG/KG	9/28/95		Dichlorodifluoromethane

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J9	95.12850	75343	< 5.		UG/KG	9/28/95		1,1-Dichloroethane
PRS16-010J9	95.12850	107062	< 5.		UG/KG	9/28/95		1,2-Dichloroethane
PRS16-010J9	95.12850	75354	< 5.		UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010J9	95.12850	156605	< 5.		UG/KG	9/28/95		trans-1,2-Dichloroethene
PRS16-010J9	95.12850	156592	< 5.		UG/KG	9/28/95		cis-1,2-Dichloroethylene
PRS16-010J9	95.12850	78875	< 5.		UG/KG	9/28/95		1,2-Dichloropropane
PRS16-010J9	95.12850	142289	< 5.		UG/KG	9/28/95		1,3-Dichloropropane
PRS16-010J9	95.12850	594207	< 5.		UG/KG	9/28/95		2,2-Dichloropropane
PRS16-010J9	95.12850	563586	< 5.		UG/KG	9/28/95		1,1-Dichloropropene
PRS16-010J9	95.12850	10061015	< 5.		UG/KG	9/28/95		cis-1,3-Dichloropropene
PRS16-010J9	95.12850	10061026	< 5.		UG/KG	9/28/95		trans-1,3-Dichloropropene
PRS16-010J9	95.12850	100414	< 5.		UG/KG	9/28/95		Ethylbenzene
PRS16-010J9	95.12850	106934	< 5.		UG/KG	9/28/95		Ethylene dibromide
PRS16-010J9	95.1[illegible]	591786	< 20.		UG/KG	9/28/95		2-Hexanone
PRS16-010J9	95.12850	98828	< 5.		UG/KG	9/28/95		Isopropylbenzene
PRS16-010J9	95.12850	99876	< 5.		UG/KG	9/28/95		4-Isopropyltoluene
PRS16-010J9	95.12850	74884	< 5.		UG/KG	9/28/95		Methyl iodide
PRS16-010J9	95.12850	108101	< 20.		UG/KG	9/28/95		4-Methyl-2-pentanone
PRS16-010J9	95.12850	75092	< 5.		UG/KG	9/28/95		Methylene chloride
PRS16-010J9	95.12850	103651	< 5.		UG/KG	9/28/95		Propylbenzene
PRS16-010J9	95.12850	100425	< 5.		UG/KG	9/28/95		Styrene
PRS16-010J9	95.12850	630206	< 5.		UG/KG	9/28/95		1,1,1,2-Tetrachloroethane
PRS16-010J9	95.12850	79345	< 5.		UG/KG	9/28/95		1,1,2,2-Tetrachloroethane
PRS16-010J9	95.12850	127184	< 5.		UG/KG	9/28/95		Tetrachloroethylene
PRS16-010J9	95.12850	108883	< 5.		UG/KG	9/28/95		Toluene
PRS16-010J9	95.12850	76131	< 5.		UG/KG	9/28/95		1,1,2-Trichloro-1,2,2-trifluoroethane
PRS16-010J9	95.12850	71556	< 5.		UG/KG	9/28/95		1,1,1-Trichloroethane
PRS16-010J9	95.12850	79005	< 5.		UG/KG	9/28/95		1,1,2-Trichloroethane
PRS16-010J9	95.12850	79016	< 5.		UG/KG	9/28/95		Trichloroethene
PRS16-010J9	95.12850	75694	< 5.		UG/KG	9/28/95		Trichlorofluoromethane
PRS16-010J9	95.12850	96184	< 5.		UG/KG	9/28/95		1,2,3-Trichloropropane
PRS16-010J9	95.12850	95636	< 5.		UG/KG	9/28/95		1,2,4-Trimethylbenzene
PRS16-010J9	95.12850	108678	11.	3.3	UG/KG	9/28/95		1,3,5-Trimethylbenzene
PRS16-010J9	95.12850	75014	< 10.		UG/KG	9/28/95		Vinyl chloride
PRS16-010J9	95.12850	1330207	12.	3.6	UG/KG	9/28/95		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 95.12850

none

********** CST ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: B080311 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12854 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/09/95 Date Analyzed: 8/09/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J10	95.12854	67641	< 21.		UG/KG	9/28/95		Acetone
PRS16-010J10	95.12854	71432	< 5.		UG/KG	9/28/95		Benzene
PRS16-010J10	95.12854	108861	< 5.		UG/KG	9/28/95		Bromobenzene
PRS16-010J10	95.12854	74975	< 5.		UG/KG	9/28/95		Bromochloromethane
PRS16-010J10	95.12854	75274	< 5.		UG/KG	9/28/95		Bromodichloromethane
PRS16-010J10	95.12854	75252	< 5.		UG/KG	9/28/95		Bromoform
PRS16-010J10	95.12854	74839	< 11.		UG/KG	9/28/95		Bromomethane
PRS16-010J10	95.12854	78933	< 21.		UG/KG	9/28/95		2-Butanone
PRS16-010J10	95.12854	104518	< 5.		UG/KG	9/28/95		n-Butylbenzene
PRS16-010J10	95.12854	135988	< 5.		UG/KG	9/28/95		sec-Butylbenzene
PRS16-010J10	95.12854	98066	< 5.		UG/KG	9/28/95		tert-Butylbenzene
PRS16-010J10	95.12854	75150	< 5.		UG/KG	9/28/95		Carbon disulfide
PRS16-010J10	95.12854	56235	< 5.		UG/KG	9/28/95		Carbon tetrachloride
PRS16-010J10	95.12854	108907	< 5.		UG/KG	9/28/95		Chlorobenzene
PRS16-010J10	95.12854	124481	< 5.		UG/KG	9/28/95		Chlorodibromomethane
PRS16-010J10	95.12854	75003	< 11.		UG/KG	9/28/95		Chloroethane
PRS16-010J10	95.12854	67663	< 5.		UG/KG	9/28/95		Chloroform
PRS16-010J10	95.12854	74873	< 11.		UG/KG	9/28/95		Chloromethane
PRS16-010J10	95.12854	95498	< 5.		UG/KG	9/28/95		o-Chlorotoluene
PRS16-010J10	95.12854	106434	< 5.		UG/KG	9/28/95		p-Chlorotoluene
PRS16-010J10	95.12854	96128	< 11.		UG/KG	9/28/95		1,2-Dibromo-3-chloropropane
PRS16-010J10	95.12854	74953	< 5.		UG/KG	9/28/95		Dibromomethane
PRS16-010J10	95.12854	95501	< 5.		UG/KG	9/28/95		o-Dichlorobenzene (1,2)
PRS16-010J10	95.12854	541731	< 5.		UG/KG	9/28/95		m-Dichlorobenzene (1,3)
PRS16-010J10	95.12854	106467	< 5.		UG/KG	9/28/95		p-Dichlorobenzene (1,4)
PRS16-010J10	95.12854	75718	< 11.		UG/KG	9/28/95		Dichlorodifluoromethane

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010J10	95.12854	75343	< 5.		UG/KG	9/28/95		1,1-Dichloroethane
PRS16-010J10	95.12854	107062	< 5.		UG/KG	9/28/95		1,2-Dichloroethane
PRS16-010J10	95.12854	75354	< 5.		UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010J10	95.12854	156605	< 5.		UG/KG	9/28/95		trans-1,2-Dichloroethene
PRS16-010J10	95.12854	156592	< 5.		UG/KG	9/28/95		cis-1,2-Dichloroethylene
PRS16-010J10	95.12854	78875	< 5.		UG/KG	9/28/95		1,2-Dichloropropane
PRS16-010J10	95.12854	142289	< 5.		UG/KG	9/28/95		1,3-Dichloropropane
PRS16-010J10	95.12854	594207	< 5.		UG/KG	9/28/95		2,2-Dichloropropane
PRS16-010J10	95.12854	563586	< 5.		UG/KG	9/28/95		1,1-Dichloropropene
PRS16-010J10	95.12854	10061015	< 5.		UG/KG	9/28/95		cis-1,3-Dichloropropene
PRS16-010J10	95.12854	10061026	< 5.		UG/KG	9/28/95		trans-1,3-Dichloropropene
PRS16-010J10	95.12854	100414	< 5.		UG/KG	9/28/95		Ethylbenzene
PRS16-010J10	95.12854	106934	< 5.		UG/KG	9/28/95		Ethylene dibromide
PRS16-010J10	95.12854	591786	< 21.		UG/KG	9/28/95		2-Hexanone
PRS16-010J10	95.12854	98828	< 5.		UG/KG	9/28/95		Isopropylbenzene
PRS16-010J10	95.12854	99876	< 5.		UG/KG	9/28/95		4-Isopropyltoluene
PRS16-010J10	95.12854	74884	< 5.		UG/KG	9/28/95		Methyl iodide
PRS16-010J10	95.12854	108101	< 21.		UG/KG	9/28/95		4-Methyl-2-pentanone
PRS16-010J10	95.12854	75092	< 5.		UG/KG	9/28/95		Methylene chloride
PRS16-010J10	95.12854	103651	< 5.		UG/KG	9/28/95		Propylbenzene
PRS16-010J10	95.12854	100425	< 5.		UG/KG	9/28/95		Styrene
PRS16-010J10	95.12854	630206	< 5.		UG/KG	9/28/95		1,1,1,2-Tetrachloroethane
PRS16-010J10	95.12854	79345	< 5.		UG/KG	9/28/95		1,1,2,2-Tetrachloroethane
PRS16-010J10	95.12854	127184	< 5.		UG/KG	9/28/95		Tetrachloroethylene
PRS16-010J10	95.12854	108883	< 5.		UG/KG	9/28/95		Toluene
PRS16-010J10	95.12854	76131	< 5.		UG/KG	9/28/95		1,1,2-Trichloro-1,2,2-trifluoroethane
PRS16-010J10	95.12854	71556	< 5.		UG/KG	9/28/95		1,1,1-Trichloroethane
PRS16-010J10	95.12854	79005	< 5.		UG/KG	9/28/95		1,1,2-Trichloroethane
PRS16-010J10	95.12854	79016	< 5.		UG/KG	9/28/95		Trichloroethene
PRS16-010J10	95.12854	75694	< 5.		UG/KG	9/28/95		Trichlorofluoromethane
PRS16-010J10	95.12854	96184	< 5.		UG/KG	9/28/95		1,2,3-Trichloropropane
PRS16-010J10	95.12854	95636	< 5.		UG/KG	9/28/95		1,2,4-Trimethylbenzene
PRS16-010J10	95.12854	108678	< 5.		UG/KG	9/28/95		1,3,5-Trimethylbenzene
PRS16-010J10	95.12854	75014	< 11.		UG/KG	9/28/95		Vinyl chloride
PRS16-010J10	95.12854	1330207	< 5.		UG/KG	9/28/95		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 95.12854

none

********** CST ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: B080311 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.12856 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/09/95 Date Analyzed: 8/09/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B5	95.12856	67641	< 24.		UG/KG	9/28/95		Acetone
PRS16-010B5	95.12856	71432	< 6.		UG/KG	9/28/95		Benzene
PRS16-010B5	95.12856	108861	< 6.		UG/KG	9/28/95		Bromobenzene
PRS16-010B5	95.12856	74975	< 6.		UG/KG	9/28/95		Bromochloromethane
PRS16-010B5	95.12856	75274	< 6.		UG/KG	9/28/95		Bromodichloromethane
PRS16-010B5	95.12856	75252	< 6.		UG/KG	9/28/95		Bromoform
PRS16-010B5	95.12856	74839	< 12.		UG/KG	9/28/95		Bromomethane
PRS16-010B5	95.12856	78933	< 24.		UG/KG	9/28/95		2-Butanone
PRS16-010B5	95.12856	104518	< 6.		UG/KG	9/28/95		n-Butylbenzene
PRS16-010B5	95.12856	135988	< 6.		UG/KG	9/28/95		sec-Butylbenzene
PRS16-010B5	95.12856	98066	< 6.		UG/KG	9/28/95		tert-Butylbenzene
PRS16-010B5	95.12856	75150	< 6.		UG/KG	9/28/95		Carbon disulfide
PRS16-010B5	95.12856	56235	< 6.		UG/KG	9/28/95		Carbon tetrachloride
PRS16-010B5	95.12856	108907	< 6.		UG/KG	9/28/95		Chlorobenzene
PRS16-010B5	95.12856	124481	< 6.		UG/KG	9/28/95		Chlorodibromomethane
PRS16-010B5	95.12856	75003	< 12.		UG/KG	9/28/95		Chloroethane
PRS16-010B5	95.12856	67663	< 6.		UG/KG	9/28/95		Chloroform
PRS16-010B5	95.12856	74873	< 12.		UG/KG	9/28/95		Chloromethane
PRS16-010B5	95.12856	95498	< 6.		UG/KG	9/28/95		o-Chlorotoluene
PRS16-010B5	95.12856	106434	< 6.		UG/KG	9/28/95		p-Chlorotoluene
PRS16-010B5	95.12856	96128	< 12.		UG/KG	9/28/95		1,2-Dibromo-3-chloropropane
PRS16-010B5	95.12856	74953	< 6.		UG/KG	9/28/95		Dibromomethane
PRS16-010B5	95.12856	95501	< 6.		UG/KG	9/28/95		o-Dichlorobenzene (1,2)
PRS16-010B5	95.12856	541731	< 6.		UG/KG	9/28/95		m-Dichlorobenzene (1,3)
PRS16-010B5	95.12856	106467	< 6.		UG/KG	9/28/95		p-Dichlorobenzene (1,4)
PRS16-010B5	95.12856	75718	< 12.		UG/KG	9/28/95		Dichlorodifluoromethane

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B5	95.12856	75343	< 6.		UG/KG	9/28/95		1,1-Dichloroethane
PRS16-010B5	95.12856	107062	< 6.		UG/KG	9/28/95		1,2-Dichloroethane
PRS16-010B5	95.12856	75354	< 6.		UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010B5	95.12856	156605	< 6.		UG/KG	9/28/95		trans-1,2-Dichloroethene
PRS16-010B5	95.12856	156592	< 6.		UG/KG	9/28/95		cis-1,2-Dichloroethylene
PRS16-010B5	95.12856	78875	< 6.		UG/KG	9/28/95		1,2-Dichloropropane
PRS16-010B5	95.12856	142289	< 6.		UG/KG	9/28/95		1,3-Dichloropropane
PRS16-010B5	95.12856	594207	< 6.		UG/KG	9/28/95		2,2-Dichloropropane
PRS16-010B5	95.12856	563586	< 6.		UG/KG	9/28/95		1,1-Dichloropropene
PRS16-010B5	95.12856	10061015	< 6.		UG/KG	9/28/95		cis-1,3-Dichloropropene
PRS16-010B5	95.12856	10061026	< 6.		UG/KG	9/28/95		trans-1,3-Dichloropropene
PRS16-010B5	95.12856	100414	< 6.		UG/KG	9/28/95		Ethylbenzene
PRS16-010B5	95.12856	106934	< 6.		UG/KG	9/28/95		Ethylene dibromide
PRS16-010B5	95.12856	591786	< 24.		UG/KG	9/28/95		2-Hexanone
PRS16-010B5	95.12856	98828	< 6.		UG/KG	9/28/95		Isopropylbenzene
PRS16-010B5	95.12856	99876	< 6.		UG/KG	9/28/95		4-Isopropyltoluene
PRS16-010B5	95.12856	74884	< 6.		UG/KG	9/28/95		Methyl iodide
PRS16-010B5	95.12856	108101	< 24.		UG/KG	9/28/95		4-Methyl-2-pentanone
PRS16-010B5	95.12856	75092	< 6.		UG/KG	9/28/95		Methylene chloride
PRS16-010B5	95.12856	103651	< 6.		UG/KG	9/28/95		Propylbenzene
PRS16-010B5	95.12856	100425	< 6.		UG/KG	9/28/95		Styrene
PRS16-010B5	95.12856	630206	< 6.		UG/KG	9/28/95		1,1,1,2-Tetrachloroethane
PRS16-010B5	95.12856	79345	< 6.		UG/KG	9/28/95		1,1,2,2-Tetrachloroethane
PRS16-010B5	95.12856	127184	< 6.		UG/KG	9/28/95		Tetrachloroethylene
PRS16-010B5	95.12856	108883	< 6.		UG/KG	9/28/95		Toluene
PRS16-010B5	95.12856	76131	< 6.		UG/KG	9/28/95		1,1,2-Trichloro-1,2,2-trifluoroethane
PRS16-010B5	95.12856	71556	< 6.		UG/KG	9/28/95		1,1,1-Trichloroethane
PRS16-010B5	95.12856	79005	< 6.		UG/KG	9/28/95		1,1,2-Trichloroethane
PRS16-010B5	95.12856	79016	< 6.		UG/KG	9/28/95		Trichloroethene
PRS16-010B5	95.12856	75694	< 6.		UG/KG	9/28/95		Trichlorofluoromethane
PRS16-010B5	95.12856	96184	< 6.		UG/KG	9/28/95		1,2,3-Trichloropropane
PRS16-010B5	95.12856	95636	< 6.		UG/KG	9/28/95		1,2,4-Trimethylbenzene
PRS16-010B5	95.12856	108678	< 6.		UG/KG	9/28/95		1,3,5-Trimethylbenzene
PRS16-010B5	95.12856	75014	< 12.		UG/KG	9/28/95		Vinyl chloride
PRS16-010B5	95.12856	1330207	< 6.		UG/KG	9/28/95		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 95.12856

none

********** CST ANALYTICAL REPORT **********

Matrix Spike Results for Sample # 95.12856 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/09/95 Date Analyzed: 8/09/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B5	95.12856	71432	58.	55.	UG/KG	9/28/95		Benzene
PRS16-010B5	95.12856	108907	58.	43.	UG/KG	9/28/95		Chlorobenzene
PRS16-010B5	95.12856	75354	58.	52.	UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010B5	95.12856	108883	58.	49.	UG/KG	9/28/95		Toluene
PRS16-010B5	95.12856	79016	58.	40.	UG/KG	9/28/95		Trichloroethene

Matrix Spike Duplicate Results for Sample # 95.12856 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/09/95 Date Analyzed: 8/09/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B5	95.12856	71432	58.	54.	UG/KG	9/28/95		Benzene
PRS16-010B5	95.12856	108907	58.	41.	UG/KG	9/28/95		Chlorobenzene
PRS16-010B5	95.12856	75354	58.	51.	UG/KG	9/28/95		1,1-Dichloroethene
PRS16-010B5	95.12856	108883	58.	49.	UG/KG	9/28/95		Toluene
PRS16-010B5	95.12856	79016	58.	40.	UG/KG	9/28/95		Trichloroethene

********** EM-9 QUALITY ASSURANCE REPORT **********

EPA VOLATILES Prepared by: JA on 28-Sep-1995

REQUEST NUMBER: 22393 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: B080311 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QA SAMPLES RUN WITH THIS BATCH

There were no open (non-blind) Quality Control materials run with the samples reported above for one of the following reasons:

____ Only qualitative data requested

____ Only Blind QC samples run with this batch.

____ No QC samples run with this sample batch.

____ No QC samples for this constituent and matrix type available within CST

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLANK QC SAMPLES RUN WITH THIS BATCH

Blank Results, Sample # 95.12867 Date Collected: 8/01/95 Date Received: 8/01/95 Date Extracted: 8/03/95 Date Analyzed: 8/03/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.12867	67641	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	Acetone
00.20227	95.12867	71432	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Benzene
00.20227	95.12867	108861	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromobenzene
00.20227	95.12867	74975	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromochloromethane
00.20227	95.12867	75274	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromodichloromethane
00.20227	95.12867	75252	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromoform
00.20227	95.12867	74839	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromomethane
00.20227	95.12867	78933	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	2-Butanone
00.20227	95.12867	104518	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	n-Butylbenzene
00.20227	95.12867	135988	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	sec-Butylbenzene
00.20227	95.12867	98066	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	tert-Butylbenzene
00.20227	95.12867	75150	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Carbon disulfide
00.20227	95.12867	56235	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Carbon tetrachloride
00.20227	95.12867	108907	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chlorobenzene
00.20227	95.12867	124481	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chlorodibromomethane
00.20227	95.12867	75003	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chloroethane
00.20227	95.12867	67663	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chloroform
00.20227	95.12867	74873	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chloromethane
00.20227	95.12867	95498	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	o-Chlorotoluene
00.20227	95.12867	106434	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	p-Chlorotoluene
00.20227	95.12867	96128	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2-Dibromo-3-chloropropane

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.12867	74953	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Dibromomethane
00.20227	95.12867	95501	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.20227	95.12867	541731	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.20227	95.12867	106467	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.20227	95.12867	75718	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Dichlorodifluoromethane
00.20227	95.12867	75343	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1-Dichloroethane
00.20227	95.12867	107062	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2-Dichloroethane
00.20227	95.12867	75354	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1-Dichloroethene
00.20227	95.12867	156605	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	trans-1,2-Dichloroethene
00.20227	95.12867	156592	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	cis-1,2-Dichloroethylene
00.20227	95.12867	78875	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2-Dichloropropane
00.20227	95.12867	142289	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,3-Dichloropropane
00.20227	95.12867	594207	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	2,2-Dichloropropane
00.20227	95.12867	563586	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1-Dichloropropene
00.20227	95.12867	10061015	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	cis-1,3-Dichloropropene
00.20227	95.12867	10061026	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	trans-1,3-Dichloropropene
00.20227	95.12867	100414	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Ethylbenzene
00.20227	95.12867	106934	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Ethylene dibromide
00.20227	95.12867	591786	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	2-Hexanone
00.20227	95.12867	98828	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Isopropylbenzene
00.20227	95.12867	99876	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	4-Isopropyltoluene
00.20227	95.12867	74884	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Methyl iodide
00.20227	95.12867	108101	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	4-Methyl-2-pentanone
00.20227	95.12867	75092	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Methylene chloride
00.20227	95.12867	103651	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Propylbenzene
00.20227	95.12867	100425	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Styrene
00.20227	95.12867	630206	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,1,2-Tetrachloroethane
00.20227	95.12867	79345	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,2,2-Tetrachloroethane
00.20227	95.12867	127184	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Tetrachloroethylene
00.20227	95.12867	108883	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Toluene
00.20227	95.12867	76131	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroethan
00.20227	95.12867	71556	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,1-Trichloroethane
00.20227	95.12867	79005	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,2-Trichloroethane
00.20227	95.12867	79016	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Trichloroethene
00.20227	95.12867	75694	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Trichlorofluoromethane
00.20227	95.12867	96184	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2,3-Trichloropropane

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.12867	95636	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2,4-Trimethylbenzene
00.20227	95.12867	108678	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,3,5-Trimethylbenzene
00.20227	95.12867	75014	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Vinyl chloride
00.20227	95.12867	1330207	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Mixed-Xylenes (o ± m ± p)

Blank Results, Sample # 95.12868 Date Collected: 8/01/95 Date Received: 8/01/95 Date Extracted: 8/09/95 Date Analyzed: 8/09/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.12868	67641	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	Acetone
00.20227	95.12868	71432	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Benzene
00.20227	95.12868	108861	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromobenzene
00.20227	95.12868	74975	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromochloromethane
00.20227	95.12868	75274	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromodichloromethane
00.20227	95.12868	75252	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromoform
00.20227	95.12868	74839	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromomethane
00.20227	95.12868	78933	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	2-Butanone
00.20227	95.12868	104518	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	n-Butylbenzene
00.20227	95.12868	135988	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	sec-Butylbenzene
00.20227	95.12868	98066	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	tert-Butylbenzene
00.20227	95.12868	75150	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Carbon disulfide
00.20227	95.12868	56235	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Carbon tetrachloride
00.20227	95.12868	108907	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chlorobenzene
00.20227	95.12868	124481	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chlorodibromomethane
00.20227	95.12868	75003	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chloroethane
00.20227	95.12868	67663	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chloroform

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.12868	74873	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chloromethane
00.20227	95.12868	95498	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	o-Chlorotoluene
00.20227	95.12868	106434	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	p-Chlorotoluene
00.20227	95.12868	96128	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2-Dibromo-3-chloropropane
00.20227	95.12868	74953	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Dibromomethane
00.20227	95.12868	95501	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.20227	95.12868	541731	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.20227	95.12868	106467	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.20227	95.12868	75718	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Dichlorodifluoromethane
00.20227	95.12868	75343	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1-Dichloroethane
00.20227	95.12868	107062	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2-Dichloroethane
00.20227	95.12868	75354	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1-Dichloroethene
00.20227	95.12868	156605	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	trans-1,2-Dichloroethene
00.20227	95.12868	156592	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	cis-1,2-Dichloroethylene
00.20227	95.12868	78875	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2-Dichloropropane
00.20227	95.12868	142289	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,3-Dichloropropane
00.20227	95.12868	594207	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	2,2-Dichloropropane
00.20227	95.12868	563586	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1-Dichloropropene
00.20227	95.12868	10061015	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	cis-1,3-Dichloropropene
00.20227	95.12868	10061026	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	trans-1,3-Dichloropropene
00.20227	95.12868	100414	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Ethylbenzene
00.20227	95.12868	106934	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Ethylene dibromide
00.20227	95.12868	591786	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	2-Hexanone
00.20227	95.12868	98828	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Isopropylbenzene
00.20227	95.12868	99876	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	4-Isopropyltoluene
00.20227	95.12868	74884	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Methyl iodide
00.20227	95.12868	108101	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	4-Methyl-2-pentanone
00.20227	95.12868	75092	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Methylene chloride
00.20227	95.12868	103651	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Propylbenzene
00.20227	95.12868	100425	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Styrene
00.20227	95.12868	630206	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,1,2-Tetrachloroethane
00.20227	95.12868	79345	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,2,2-Tetrachloroethane
00.20227	95.12868	127184	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Tetrachloroethylene
00.20227	95.12868	108883	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Toluene
00.20227	95.12868	76131	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroethan
00.20227	95.12868	71556	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,1-Trichloroethane

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.12868	79005	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,2-Trichloroethane
00.20227	95.12868	79016	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Trichloroethene
00.20227	95.12868	75694	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Trichlorofluoromethane
00.20227	95.12868	96184	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2,3-Trichloropropane
00.20227	95.12868	95636	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2,4-Trimethylbenzene
00.20227	95.12868	108678	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,3,5-Trimethylbenzene
00.20227	95.12868	75014	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Vinyl chloride
00.20227	95.12868	1330207	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Mixed-Xylenes (o ± m ± p)

Blank Results, Sample # 95.15408 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/10/95 Date Analyzed: 8/10/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.15408	67641	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	Acetone
00.20227	95.15408	71432	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Benzene
00.20227	95.15408	108861	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromobenzene
00.20227	95.15408	74975	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromochloromethane
00.20227	95.15408	75274	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromodichloromethane
00.20227	95.15408	75252	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromoform
00.20227	95.15408	74839	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromomethane
00.20227	95.15408	78933	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	2-Butanone
00.20227	95.15408	104518	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	n-Butylbenzene
00.20227	95.15408	135988	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	sec-Butylbenzene
00.20227	95.15408	98066	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	tert-Butylbenzene
00.20227	95.15408	75150	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Carbon disulfide
00.20227	95.15408	56235	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Carbon tetrachloride

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.15408	108907	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chlorobenzene
00.20227	95.15408	124481	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chlorodibromomethane
00.20227	95.15408	75003	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chloroethane
00.20227	95.15408	67663	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chloroform
00.20227	95.15408	74873	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chloromethane
00.20227	95.15408	95498	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	o-Chlorotoluene
00.20227	95.15408	106434	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	p-Chlorotoluene
00.20227	95.15408	96128	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2-Dibromo-3-chloropropane
00.20227	95.15408	74953	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Dibromomethane
00.20227	95.15408	95501	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.20227	95.15408	541731	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.20227	95.15408	106467	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.20227	95.15408	75718	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Dichlorodifluoromethane
00.20227	95.15408	75343	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1-Dichloroethane
00.20227	95.15408	107062	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2-Dichloroethane
00.20227	95.15408	75354	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1-Dichloroethene
00.20227	95.15408	156605	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	trans-1,2-Dichloroethene
00.20227	95.15408	156592	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	cis-1,2-Dichloroethylene
00.20227	95.15408	78875	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2-Dichloropropane
00.20227	95.15408	142289	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,3-Dichloropropane
00.20227	95.15408	594207	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	2,2-Dichloropropane
00.20227	95.15408	563586	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1-Dichloropropene
00.20227	95.15408	10061015	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	cis-1,3-Dichloropropene
00.20227	95.15408	10061026	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	trans-1,3-Dichloropropene
00.20227	95.15408	100414	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Ethylbenzene
00.20227	95.15408	106934	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Ethylene dibromide
00.20227	95.15408	591786	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	2-Hexanone
00.20227	95.15408	98828	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Isopropylbenzene
00.20227	95.15408	99876	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	4-Isopropyltoluene
00.20227	95.15408	74884	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Methyl iodide
00.20227	95.15408	108101	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	4-Methyl-2-pentanone
00.20227	95.15408	75092	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Methylene chloride
00.20227	95.15408	103651	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Propylbenzene
00.20227	95.15408	100425	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Styrene
00.20227	95.15408	630206	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,1,2-Tetrachloroethane
00.20227	95.15408	79345	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,2,2-Tetrachloroethane

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.15408	127184	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Tetrachloroethylene
00.20227	95.15408	108883	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Toluene
00.20227	95.15408	76131	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroethan
00.20227	95.15408	71556	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,1-Trichloroethane
00.20227	95.15408	79005	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,2-Trichloroethane
00.20227	95.15408	79016	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Trichloroethene
00.20227	95.15408	75694	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Trichlorofluoromethane
00.20227	95.15408	96184	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2,3-Trichloropropane
00.20227	95.15408	95636	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2,4-Trimethylbenzene
00.20227	95.15408	108678	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,3,5-Trimethylbenzene
00.20227	95.15408	75014	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Vinyl chloride
00.20227	95.15408	1330207	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Mixed-Xylenes (o ± m ± p)

Blank Results, Sample # 95.15409 Date Collected: 7/31/95 Date Received: 8/01/95 Date Extracted: 8/11/95 Date Analyzed: 8/11/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.15409	67641	25.	7.5	UG/KG	0.0		9/28/95	OUT OF CONTROL	Acetone
00.20227	95.15409	71432	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Benzene
00.20227	95.15409	108861	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromobenzene
00.20227	95.15409	74975	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromochloromethane
00.20227	95.15409	75274	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromodichloromethane
00.20227	95.15409	75252	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromoform
00.20227	95.15409	74839	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromomethane
00.20227	95.15409	78933	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	2-Butanone
00.20227	95.15409	104518	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	n-Butylbenzene

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.15409	135988	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	sec-Butylbenzene
00.20227	95.15409	98066	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	tert-Butylbenzene
00.20227	95.15409	75150	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Carbon disulfide
00.20227	95.15409	56235	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Carbon tetrachloride
00.20227	95.15409	108907	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chlorobenzene
00.20227	95.15409	124481	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chlorodibromomethane
00.20227	95.15409	75003	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chloroethane
00.20227	95.15409	67663	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chloroform
00.20227	95.15409	74873	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chloromethane
00.20227	95.15409	95498	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	o-Chlorotoluene
00.20227	95.15409	106434	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	p-Chlorotoluene
00.20227	95.15409	96128	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2-Dibromo-3-chloropropane
00.20227	95.15409	74953	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Dibromomethane
00.20227	95.15409	95501	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.20227	95.15409	541731	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.20227	95.15409	106467	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.20227	95.15409	75718	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Dichlorodifluoromethane
00.20227	95.15409	75343	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1-Dichloroethane
00.20227	95.15409	107062	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2-Dichloroethane
00.20227	95.15409	75354	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1-Dichloroethene
00.20227	95.15409	156605	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	trans-1,2-Dichloroethene
00.20227	95.15409	156592	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	cis-1,2-Dichloroethylene
00.20227	95.15409	78875	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2-Dichloropropane
00.20227	95.15409	142289	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,3-Dichloropropane
00.20227	95.15409	594207	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	2,2-Dichloropropane
00.20227	95.15409	563586	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1-Dichloropropene
00.20227	95.15409	10061015	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	cis-1,3-Dichloropropene
00.20227	95.15409	10061026	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	trans-1,3-Dichloropropene
00.20227	95.15409	100414	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Ethylbenzene
00.20227	95.15409	106934	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Ethylene dibromide
00.20227	95.15409	591786	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	2-Hexanone
00.20227	95.15409	98828	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Isopropylbenzene
00.20227	95.15409	99876	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	4-Isopropyltoluene
00.20227	95.15409	74884	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Methyl iodide
00.20227	95.15409	108101	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	4-Methyl-2-pentanone
00.20227	95.15409	75092	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Methylene chloride

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.15409	103651	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Propylbenzene
00.20227	95.15409	100425	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Styrene
00.20227	95.15409	630206	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,1,2-Tetrachloroethane
00.20227	95.15409	79345	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,2,2-Tetrachloroethane
00.20227	95.15409	127184	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Tetrachloroethylene
00.20227	95.15409	108883	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Toluene
00.20227	95.15409	76131	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroethan
00.20227	95.15409	71556	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,1-Trichloroethane
00.20227	95.15409	79005	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,2-Trichloroethane
00.20227	95.15409	79016	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Trichloroethene
00.20227	95.15409	75694	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Trichlorofluoromethane
00.20227	95.15409	96184	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2,3-Trichloropropane
00.20227	95.15409	95636	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2,4-Trimethylbenzene
00.20227	95.15409	108678	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,3,5-Trimethylbenzene
00.20227	95.15409	75014	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Vinyl chloride
00.20227	95.15409	1330207	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Mixed-Xylenes (o ± m ± p)

Blank Spike Results: none

Blank Spike Duplicate Results: none

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLIND QA SAMPLES RUN WITH THIS BATCH

Blind QC Results, Sample # 95.12885 Date Collected: 8/01/95 Date Received: 8/01/95 Date Extracted: 8/03/95 Date Analyzed: 8/03/95

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
95.12885	67641	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	Acetone
95.12885	71432	100.	30.	UG/KG	94.1	9.4	9/28/95	UNDER CONTROL	Benzene
95.12885	108861	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromobenzene
95.12885	74975	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromochloromethane
95.12885	75274	76.	22.8	UG/KG	72.1	7.2	9/28/95	UNDER CONTROL	Bromodichloromethane
95.12885	75252	68.	20.4	UG/KG	68.1	6.8	9/28/95	UNDER CONTROL	Bromoform
95.12885	74839	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromomethane
95.12885	78933	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	2-Butanone
95.12885	104518	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	n-Butylbenzene
95.12885	135988	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	sec-Butylbenzene
95.12885	98066	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	tert-Butylbenzene
95.12885	75150	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Carbon disulfide
95.12885	56235	110.	33.	UG/KG	104.	10.4	9/28/95	UNDER CONTROL	Carbon tetrachloride
95.12885	108907	20.	6.	UG/KG	18.4	1.8	9/28/95	UNDER CONTROL	Chlorobenzene
95.12885	124481	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chlorodibromomethane
95.12885	75003	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chloroethane
95.12885	67663	72.	21.6	UG/KG	68.1	6.8	9/28/95	UNDER CONTROL	Chloroform
95.12885	74873	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chloromethane
95.12885	95498	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	o-Chlorotoluene
95.12885	106434	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	p-Chlorotoluene
95.12885	96128	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2-Dibromo-3-chloropropane
95.12885	74953	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Dibromomethane
95.12885	95501	37.	11.1	UG/KG	34.2	3.4	9/28/95	UNDER CONTROL	o-Dichlorobenzene (1,2)
95.12885	541731	58.	17.4	UG/KG	51.	5.1	9/28/95	UNDER CONTROL	m-Dichlorobenzene (1,3)
95.12885	106467	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	p-Dichlorobenzene (1,4)
95.12885	75718	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Dichlorodifluoromethane

95.12885	75343	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1-Dichloroethane
95.12885	107062	150.	45.	UG/KG	149.	14.9	9/28/95	UNDER CONTROL	1,2-Dichloroethane
95.12885	75354	9.	2.7	UG/KG	0.0		9/28/95	OUT OF CONTROL	1,1-Dichloroethene
95.12885	156605	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	trans-1,2-Dichloroethene
95.12885	156592	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	cis-1,2-Dichloroethylene
95.12885	78875	33.	9.9	UG/KG	32.4	3.2	9/28/95	UNDER CONTROL	1,2-Dichloropropane
95.12885	142289	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,3-Dichloropropane
95.12885	594207	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	2,2-Dichloropropane
95.12885	563586	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1-Dichloropropene
95.12885	10061015	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	cis-1,3-Dichloropropene
95.12885	10061026	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	trans-1,3-Dichloropropene
95.12885	100414	32.	9.6	UG/KG	28.8	2.9	9/28/95	UNDER CONTROL	Ethylbenzene
95.12885	106934	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Ethylene dibromide
95.12885	591786	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	2-Hexanone
95.12885	98828	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Isopropylbenzene

95.12885	99876	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	4-Isopropyltoluene
95.12885	74884	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Methyl iodide
95.12885	108101	54.	16.2	UG/KG	50.2	5.	9/28/95	UNDER CONTROL	4-Methyl-2-pentanone
95.12885	75092	88.	26.4	UG/KG	88.9	8.9	9/28/95	UNDER CONTROL	Methylene chloride
95.12885	103651	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Propylbenzene
95.12885	100425	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Styrene
95.12885	630206	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,1,2-Tetrachloroethane
95.12885	79345	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,2,2-Tetrachloroethane
95.12885	127184	79.	23.7	UG/KG	74.2	7.4	9/28/95	UNDER CONTROL	Tetrachloroethylene
95.12885	108883	24.	7.2	UG/KG	22.5	2.2	9/28/95	UNDER CONTROL	Toluene
95.12885	76131	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroethane
95.12885	71556	100.	30.	UG/KG	104.	10.4	9/28/95	UNDER CONTROL	1,1,1-Trichloroethane
95.12885	79005	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,2-Trichloroethane
95.12885	79016	45.	13.5	UG/KG	42.2	4.2	9/28/95	UNDER CONTROL	Trichloroethene
95.12885	75694	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Trichlorofluoromethane
95.12885	96184	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2,3-Trichloropropane
95.12885	95636	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2,4-Trimethylbenzene
95.12885	108678	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,3,5-Trimethylbenzene
95.12885	75014	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Vinyl chloride
95.12885	1330207	97.	29.1	UG/KG	88.5	8.8	9/28/95	UNDER CONTROL	Mixed-Xylenes (o ± m ± p)

Blind QC Results, Sample # 95.12889

Date Collected: 8/01/95 Date Received: 8/01/95 Date Extracted: 8/09/95 Date Analyzed: 8/09/95

95.12889	67641	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	Acetone
95.12889	71432	48.	14.4	UG/KG	58.3	5.8	9/28/95	UNDER CONTROL	Benzene
95.12889	108861	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromobenzene
95.12889	74975	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromochloromethane
95.12889	75274	54.	16.2	UG/KG	60.1	6.	9/28/95	UNDER CONTROL	Bromodichloromethane
95.12889	75252	70.	21.	UG/KG	91.3	9.1	9/28/95	UNDER CONTROL	Bromoform
95.12889	74839	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Bromomethane
95.12889	78933	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	2-Butanone
95.12889	104518	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	n-Butylbenzene
95.12889	135988	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	sec-Butylbenzene
95.12889	98066	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	tert-Butylbenzene
95.12889	75150	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Carbon disulfide
95.12889	56235	77.	23.1	UG/KG	80.3	8.	9/28/95	UNDER CONTROL	Carbon tetrachloride
95.12889	108907	25.	7.5	UG/KG	30.3	3.	9/28/95	UNDER CONTROL	Chlorobenzene
95.12889	124481	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chlorodibromomethane
95.12889	75003	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chloroethane
95.12889	67663	85.	25.5	UG/KG	93.4	9.3	9/28/95	UNDER CONTROL	Chloroform
95.12889	74873	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Chloromethane
95.12889	95498	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	o-Chlorotoluene
95.12889	106434	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	p-Chlorotoluene
95.12889	96128	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2-Dibromo-3-chloropropa-

95.12889	74953	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Dibromomethane
95.12889	95501	120.	36.	UG/KG	189.	18.9	9/28/95	UNDER CONTROL	o-Dichlorobenzene (1,2)
95.12889	541731	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	m-Dichlorobenzene (1,3)
95.12889	106467	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	p-Dichlorobenzene (1,4)
95.12889	75718	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Dichlorodifluoromethane
95.12889	75343	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1-Dichloroethane
95.12889	107062	140.	42.	UG/KG	157.	15.7	9/28/95	UNDER CONTROL	1,2-Dichloroethane
95.12889	75354	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1-Dichloroethene
95.12889	156605	30.	9.	UG/KG	38.5	3.8	9/28/95	UNDER CONTROL	trans-1,2-Dichloroethene
95.12889	156592	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	cis-1,2-Dichloroethylene
95.12889	78875	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2-Dichloropropane
95.12889	142289	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,3-Dichloropropane
95.12889	594207	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	2,2-Dichloropropane
95.12889	563586	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1-Dichloropropene
95.12889	10061015	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	cis-1,3-Dichloropropene

95.12889	10061026	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	trans-1,3-Dichloropropene
95.12889	100414	110.	33.	UG/KG	132.	13.2	9/28/95	UNDER CONTROL	Ethylbenzene
95.12889	106934	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Ethylene dibromide
95.12889	591786	< 20.		UG/KG	0.0		9/28/95	UNDER CONTROL	2-Hexanone
95.12889	98828	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Isopropylbenzene
95.12889	99876	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	4-Isopropyltoluene
95.12889	74884	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Methyl iodide
95.12889	108101	93.	27.9	UG/KG	116.	11.6	9/28/95	UNDER CONTROL	4-Methyl-2-pentanone
95.12889	75092	110.	33.	UG/KG	136.	13.6	9/28/95	UNDER CONTROL	Methylene chloride
95.12889	103651	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Propylbenzene
95.12889	100425	19.	5.7	UG/KG	22.7	2.3	9/28/95	UNDER CONTROL	Styrene
95.12889	630206	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,1,2-Tetrachloroethane
95.12889	79345	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,2,2-Tetrachloroethane
95.12889	127184	93.	27.9	UG/KG	127.	12.7	9/28/95	UNDER CONTROL	Tetrachloroethylene
95.12889	108883	19.	5.7	UG/KG	22.5	2.2	9/28/95	UNDER CONTROL	Toluene
95.12889	76131	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroethane
95.12889	71556	58.	17.4	UG/KG	63.4	6.3	9/28/95	UNDER CONTROL	1,1,1-Trichloroethane
95.12889	79005	25.	7.5	UG/KG	31.4	3.1	9/28/95	UNDER CONTROL	1,1,2-Trichloroethane
95.12889	79016	86.	25.8	UG/KG	120.	12.	9/28/95	UNDER CONTROL	Trichloroethene
95.12889	75694	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	Trichlorofluoromethane
95.12889	96184	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2,3-Trichloropropane
95.12889	95636	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,2,4-Trimethylbenzene
95.12889	108678	< 5.		UG/KG	0.0		9/28/95	UNDER CONTROL	1,3,5-Trimethylbenzene
95.12889	75014	< 10.		UG/KG	0.0		9/28/95	UNDER CONTROL	Vinyl chloride
95.12889	1330207	23.	6.9	UG/KG	26.2	2.6	9/28/95	UNDER CONTROL	Mixed-Xylenes (o ± m ± p)

********** EM-9 QUALITY ASSURANCE REPORT **********

SURROGATE RESULTS FOR EPA VOLATILES

Surrogate 1 = 1,2-Dichloroethane d4 (CAS # = 17060070)
Surrogate 2 = Toluene d8 (CAS # = 2037265)
Surrogate 3 = 4-Bromofluorobenzene (CAS # = 460004)
Surrogate 4 = 2-Chlorostyrene (CAS # = 2039874)
Surrogate 5 = Dibromofluoromethane (CAS # = 1868537)

SAMPLE NUMBER	UNITS	Surrogate 1	Surrogate 2	Surrogate 3	Surrogate 4	Surrogate 5	COMPLETION DATE	SAMPLE TYPE
95.12834	%	100.	111.	98.		0.0	28-Sep-1995	MS
95.12834	%	98.	112.	97.		0.0	28-Sep-1995	MSD
95.12834	%	0.0	99.	109.		97.	28-Sep-1995	
95.12835	%	0.0	93.	127.		98.	28-Sep-1995	
95.12837	%	0.0	101.	110.		94.	28-Sep-1995	
95.12838	%	0.0	101.	104.		95.	28-Sep-1995	
95.12839	%	0.0	103.	103.		91.	28-Sep-1995	
95.12840	%	0.0	101.	98.		92.	28-Sep-1995	
95.12841	%	0.0	88.	130.		84.	28-Sep-1995	
95.12842	%	0.0	102.	117.		99.	28-Sep-1995	
95.12843	%	0.0	100.	115.		100.	28-Sep-1995	
95.12844	%	0.0	102.	105.		96.	28-Sep-1995	
95.12845	%	0.0	101.	110.		98.	28-Sep-1995	
95.12846	%	0.0	103.	113.		97.	28-Sep-1995	
95.12847	%	0.0	102.	109.		90.	28-Sep-1995	
95.12848	%	0.0	102.	116.		95.	28-Sep-1995	
95.12849	%	0.0	101.	107.		100.	28-Sep-1995	
95.12850	%	0.0	76.	143.		118.	28-Sep-1995	
95.12854	%	0.0	104.	104.		98.	28-Sep-1995	
95.12856	%	102.	109.	96.		0.0	28-Sep-1995	MS
95.12856	%	100.	110.	96.		0.0	28-Sep-1995	MSD
95.12856	%	0.0	102.	110.		98.	28-Sep-1995	
95.12867	%	0.0	102.	97.		95.	28-Sep-1995	B
95.12868	%	0.0	100.	95.		101.	28-Sep-1995	B
95.12885	%	0.0	99.	98.		97.	28-Sep-1995	
95.12889	%	0.0	102.	99.		99.	28-Sep-1995	

********** EM-9 QUALITY ASSURANCE REPORT **********

SAMPLE NUMBER	UNITS	Surrogate 1	Surrogate 2	Surrogate 3	Surrogate 4	Surrogate 5	COMPLETION DATE	SAMPLE TYPE
95.15408	%	0.0	99.	97.		98.	28-Sep-1995	B
95.15409	%	0.0	101.	95.		96.	28-Sep-1995	B
EPA Limits:								
Water	%	76 - 114	88 - 110	86 - 115	86 - 115	86 - 118		
Soil	%	70 - 121	81 - 117	74 - 121	74 - 121			

REPORT NUMBER: 38482

Analyst	Reviewer	Team Leader	QA Officer
		Anthony Conlardo	mag
Date	Date	10/3/95	10/2/95

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1992,' LA-12790-MS, Vol. I, pp. 19-20

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REPORT NUMBER: 38779

********** CST ANALYTICAL REPORT **********

Prepared by: MKOBY on 25-Oct-1995

REQUEST NUMBER: 22529 MATRIX: SS ANALYST: IMS PROGRAM CODE: WE5A

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950

NOTEBOOK: PAGE:

CUSTOMER SAMPLES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PRS16-010B7	95.14158	PB	ICPMS	50.1	2.5	UG/G	10/25/95	
PRS16-010B7	95.14158	SB	ICPMS	< 0.25		UG/G	10/25/95	
PRS16-010B7	95.14158	TL	ICPMS	< 0.25		UG/G	10/25/95	

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REPORT NUMBER: 38779 (continued)

********** CST QUALITY ASSURANCE REPORT *********

Prepared by: MKOBY on 25-Oct-1995

REQUEST NUMBER: 22529 MATRIX: SS ANALYST: IMS PROGRAM CODE: WE5A

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950

NOTEBOOK: PAGE:

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT
00.30469	PB	157.	15.	MG/KG	147.	73.5	10/25/95	UNDER CONTROL
00.30469	SB	3.22	0.37	MG/KG	43.9	93.5	10/25/95	UNDER CONTROL
00.30469	TL	102.	9.	MG/KG	102.	50.5	10/25/95	UNDER CONTROL

SUMMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

There were no blind Quality Control materials run with the samples reported above for one of the following reasons:

___ Only qualitative data requested

✓ Only Open (non-blind) QC samples run with this sample batch.

___ No QC samples run with this sample batch.

___ No QC samples for this constituent and matrix type available within CST

REPORT NUMBER: 38779

Analyst	Reviewer	Team Leader	QA Officer
MWKoby	MWKoby	B. Doom	mag
10/26/95	10/26/95	10/26/95	10/27/95
Date	Date	Date	Date

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1992,' LA-12790-MS, Vol. I, pp. 19-20.

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REPORT NUMBER: 38504

********** CST ANALYTICAL REPORT **********

Prepared by: PEC on 29-Sep-1995

REQUEST NUMBER: 22529 MATRIX: SS ANALYST: AAS PROGRAM CODE: WE5A

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950

NOTEBOOK: CST9002 PAGE: 76

CUSTOMER SAMPLES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PRS16-010B7	95.14158	AS	ETVAA	3.	0.6	UG/G	9/29/95	
PRS16-010B7	95.14158	HG	CVAA	0.2	0.02	UG/G	9/18/95	
PRS16-010B7	95.14158	SE	ETVAA	0.4	0.3	UG/G	9/28/95	

CUSTOMER SAMPLE DUPLICATES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PRS16-010B7	95.14158	HG	CVAA	0.1	0.02	UG/G	9/18/95	
PRS16-010B7	95.14158	HG	CVAA	0.2	0.02	UG/G	9/18/95	

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REPORT NUMBER: 38504 (continued)

********** CST QUALITY ASSURANCE REPORT *********

Prepared by: PEC on 29-Sep-1995

REQUEST NUMBER: 22529 MATRIX: SS ANALYST: AAS PROGRAM CODE: WE5A

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950

NOTEBOOK: CST9002 PAGE: 76

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT
00.30469	AS	139.	28.	MG/KG	128.	71.	9/29/95	UNDER CONTROL
00.30469	HG	4.2	0.4	MG/KG	4.85	2.4	9/18/95	UNDER CONTROL
00.30469	SE	106.	21.	MG/KG	101.	55.	9/28/95	UNDER CONTROL

SUMMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

There were no blind Quality Control materials run with the samples reported above for one of the following reasons:

____ Only qualitative data requested

____ Only Open (non-blind) QC samples run with this sample batch.

____ No QC samples run with this sample batch.

____ No QC samples for this constituent and matrix type available within CST

REPORT NUMBER: 38504

Analyst	Reviewer	Team Leader	QA Officer
Date	Date	10/26/95 Date	10/27/95 Date

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1992,' LA-12790-MS, Vol. I, pp. 19-20.

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REPORT NUMBER: 38588

********** CST ANALYTICAL REPORT **********

Prepared by: MBG on 5-Oct-1995

REQUEST NUMBER: 22529 MATRIX: SS ANALYST: OES PROGRAM CODE: WE5A

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950

NOTEBOOK: R8148 PAGE: 114

CUSTOMER SAMPLES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PRS16-010B7	95.14158	AG	ICPES	5.8	1.2	UG/G	9/26/95	
PRS16-010B7	95.14158	BA	ICPES	6900.	690.	UG/G	9/26/95	
PRS16-010B7	95.14158	BE	ICPES	0.38	0.08	UG/G	9/26/95	
PRS16-010B7	95.14158	CD	ICPES	2.1	2.1	UG/G	9/26/95	
PRS16-010B7	95.14158	CR	ICPES	11.	1.1	UG/G	9/26/95	
PRS16-010B7	95.14158	NI	ICPES	2.1	1.3	UG/G	9/26/95	

****

REPORT NUMBER: 38588 (continued)

********** CST QUALITY ASSURANCE REPORT *********

Prepared by: MBG on 5-Oct-1995

REQUEST NUMBER: 22529 MATRIX: SS ANALYST: OES PROGRAM CODE: WE5A

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950

NOTEBOOK: R8148 PAGE: 114

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT
00.30469	AG	3.4	1.2	MG/KG	92.5	49.5	9/26/95	UNDER CONTROL
00.30469	BA	200.	20.	MG/KG	276.	82.5	9/26/95	UNDER CONTROL
00.30469	BE	90.	9.	MG/KG	95.1	43.	10/05/95	UNDER CONTROL
00.30469	CD	100.	10.	MG/KG	102.	56.5	9/26/95	UNDER CONTROL
00.30469	CR	120.	12.	MG/KG	154.	73.	9/26/95	UNDER CONTROL
00.30469	NI	140.	14.	MG/KG	163.	85.5	9/26/95	UNDER CONTROL

SUMMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

There were no blind Quality Control materials run with the samples reported above for one of the following reasons:

____ Only qualitative data requested

✓ Only Open (non-blind) QC samples run with this sample batch.

____ No QC samples run with this sample batch.

____ No QC samples for this constituent and matrix type available within CST

REPORT NUMBER: 38588

Analyst	Reviewer	Team Leader	QA Officer
Michele B. Ross	MBG	[illegible]	mag
10-5-95	10-5-95	10/26/95	10/27/95
Date	Date	Date	Date

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1992,' LA-12790-MS, Vol. I, pp. 19-20.

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CST-12 ORGANIC ANALYSIS GROUP
SUMMARY OF ANALYTICAL RESULTS FOR VOLATILES

TO: **Ron Conrad** **DATE:** October 12, 1995
THRU: Michael Guttman, CST-12 Organic Analysis
FROM: Laura C. Ortega, CST-12 Organic Analysis

MATRIX: SOIL **REQUEST NUMBER: 22530**

Results Summary
Attached is a tabulation of samples submitted for volatiles analysis and a summary of their analytical results (target compounds found and their concentrations; see Table 1). The sample, collected on August 24, 1995, was analyzed on August 31, 1995.

Method Summary
Samples were analyzed using EPA Method 8260. In summary, a measured amount of sample, usually 5 grams, was analyzed using the purge and trap method combined with capillary column GC/MS. A Delta Perspective PTA-30 Autosampler and a Tekmar 3000 Purge and Trap Concentrator were interfaced to a Hewlett-Packard 5890 Gas Chromatograph / 5971 Mass Selective Detector to perform the analyses. The analytical column used was a J&W Scientific 75 m by 0.53 mm ID, 3 micron film, DB624 capillary column.

Anomalies And Analysis Notes
Below is a summary of required QA/QC parameters as outlined in EPA SW-846 and LANL SOPs and a summary of any anomalies which occured during the analyses.

Calibration QC were within criteria for all analyses.
Surrogate recoveries were within criteria for all analyses.
Internal standard responses were within criteria for all analyses.

Matrix spike and matrix spike duplicate were analyzed as part of the analytical batch which included the samples from this work request. All spike recoveries and relative percent differences were within criteria. A copy of the MS/MSD recovery form is included with this report.

Holding times were met for all sample analyses.

If you have any questions regarding this data, please call Michael Guttman at 665-7410.

10/12/95

CST-12 ORGANIC ANALYSIS GROUP
SUMMARY OF ANALYTICAL RESULTS FOR VOLATILES

Table 1. Summary of results of sample analyses for volatiles.

REQUEST NUMBER: 22530

SAMPLE ID	TARGET COMPOUNDS FOUND	AMOUNT (ug/Kg)	LOQ (ug/Kg)	TICs
B95.14159	Acetone	9 J	20	N
	4-Methyl-2-Pentanone	3 J	20	
	2-Hexanone	6 J	20	
S95.14158	Toluene	3 J	5	N

PRS16-010B7
CKD 10/31/95

Sample IDs beginning with the letter S are samples; those beginning with the letter B are blanks.

LOQ: Limit of quantitation. LOQs normally range between 5 and 20ug/Kg depending on the compound, unless otherwise noted.

TICs: Tentatively identified compounds. Y = TICs were found. N = TICs were not found.

J: This data qualifier indicates that the compound was detected, but the reported result is less than the LOQ and is an estimated value.

M.L
10/17/95

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CST-12 OAG Contract: _____

Project No.: 22052 Site: _____ Location: _____ Group: _____

Matrix Spike - Sample No.: S9509882 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	56	0	51	91	(59-172)
Benzene	56	0	58	104	(66-142)
Trichloroethene	56	0	47	84	(62-137)
Toluene	56	0	52	93	(59-139)
Chlorobenzene	56	0	48	86	(60-133)

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MS % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	56	51	91	0	22	(59-172)
Benzene	56	57	102	2	21	(66-142)
Trichloroethene	56	47	84	0	24	(62-137)
Toluene	56	52	93	0	21	(59-139)
Chlorobenzene	56	49	88	2	21	(60-133)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

Comments: _____

9/7/95

LOS ALAMOS NATIONAL LABORATORY
CST-12 ORGANIC ANALYSIS GROUP

DATA REVIEW CERTIFICATION

Request Number: 22530 Analysis: VOLATILES BY EPA 8260

The data contained in the enclosed report has been reviewed and approved by the people listed below:

LAURA C. ORTEGA	[signature]	10/17/95
Analyst Name (print)	Analyst Signature	Date
MICHAEL GUTTMAN	[signature]	10/17/95
Data Reviewer Name (print)	Data Reviewer Signature	Date

********** CST ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: JA on 30-Oct-1995

REQUEST NUMBER: 22530 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: F060707 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 95.14158 Date Collected: 8/24/95 Date Received: 8/25/95 Date Extracted: 8/31/95 Date Analyzed: 8/31/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B7	95.14158	67641	< 22.		UG/KG	10/30/95		Acetone
PRS16-010B7	95.14158	71432	< 5.		UG/KG	10/30/95		Benzene
PRS16-010B7	95.14158	108861	< 5.		UG/KG	10/30/95		Bromobenzene
PRS16-010B7	95.14158	74975	< 5.		UG/KG	10/30/95		Bromochloromethane
PRS16-010B7	95.14158	75274	< 5.		UG/KG	10/30/95		Bromodichloromethane
PRS16-010B7	95.14158	75252	< 5.		UG/KG	10/30/95		Bromoform
PRS16-010B7	95.14158	74839	< 11.		UG/KG	10/30/95		Bromomethane
PRS16-010B7	95.14158	78933	< 22.		UG/KG	10/30/95		2-Butanone
PRS16-010B7	95.14158	104518	< 5.		UG/KG	10/30/95		n-Butylbenzene
PRS16-010B7	95.14158	135988	< 5.		UG/KG	10/30/95		sec-Butylbenzene
PRS16-010B7	95.14158	98066	< 5.		UG/KG	10/30/95		tert-Butylbenzene
PRS16-010B7	95.14158	75150	< 5.		UG/KG	10/30/95		Carbon disulfide
PRS16-010B7	95.14158	56235	< 5.		UG/KG	10/30/95		Carbon tetrachloride
PRS16-010B7	95.14158	108907	< 5.		UG/KG	10/30/95		Chlorobenzene
PRS16-010B7	95.14158	124481	< 5.		UG/KG	10/30/95		Chlorodibromomethane
PRS16-010B7	95.14158	75003	< 11.		UG/KG	10/30/95		Chloroethane
PRS16-010B7	95.14158	67663	< 5.		UG/KG	10/30/95		Chloroform
PRS16-010B7	95.14158	74873	< 11.		UG/KG	10/30/95		Chloromethane
PRS16-010B7	95.14158	95498	< 5.		UG/KG	10/30/95		o-Chlorotoluene
PRS16-010B7	95.14158	106434	< 5.		UG/KG	10/30/95		p-Chlorotoluene
PRS16-010B7	95.14158	96128	< 11.		UG/KG	10/30/95		1,2-Dibromo-3-chloropropane
PRS16-010B7	95.14158	74953	< 5.		UG/KG	10/30/95		Dibromomethane
PRS16-010B7	95.14158	95501	< 5.		UG/KG	10/30/95		o-Dichlorobenzene (1,2)
PRS16-010B7	95.14158	541731	< 5.		UG/KG	10/30/95		m-Dichlorobenzene (1,3)
PRS16-010B7	95.14158	106467	< 5.		UG/KG	10/30/95		p-Dichlorobenzene (1,4)
PRS16-010B7	95.14158	75718	< 11.		UG/KG	10/30/95		Dichlorodifluoromethane

********** CST ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PRS16-010B7	95.14158	75343	< 5.		UG/KG	10/30/95		1,1-Dichloroethane
PRS16-010B7	95.14158	107062	< 5.		UG/KG	10/30/95		1,2-Dichloroethane
PRS16-010B7	95.14158	75354	< 5.		UG/KG	10/30/95		1,1-Dichloroethene
PRS16-010B7	95.14158	156605	< 5.		UG/KG	10/30/95		trans-1,2-Dichloroethene
PRS16-010B7	95.14158	156592	< 5.		UG/KG	10/30/95		cis-1,2-Dichloroethylene
PRS16-010B7	95.14158	78875	< 5.		UG/KG	10/30/95		1,2-Dichloropropane
PRS16-010B7	95.14158	142289	< 5.		UG/KG	10/30/95		1,3-Dichloropropane
PRS16-010B7	95.14158	594207	< 5.		UG/KG	10/30/95		2,2-Dichloropropane
PRS16-010B7	95.14158	563586	< 5.		UG/KG	10/30/95		1,1-Dichloropropene
PRS16-010B7	95.14158	10061015	< 5.		UG/KG	10/30/95		cis-1,3-Dichloropropene
PRS16-010B7	95.14158	10061026	< 5.		UG/KG	10/30/95		trans-1,3-Dichloropropene
PRS16-010B7	95.14158	100414	< 5.		UG/KG	10/30/95		Ethylbenzene
PRS16-010B7	95.14158	106934	< 5.		UG/KG	10/30/95		Ethylene dibromide
PRS16-010B7	95.14158	591786	< 22.		UG/KG	10/30/95		2-Hexanone
PRS16-010B7	95.14158	98828	< 5.		UG/KG	10/30/95		Isopropylbenzene
PRS16-010B7	95.14158	99876	< 5.		UG/KG	10/30/95		4-Isopropyltoluene
PRS16-010B7	95.14158	74884	< 5.		UG/KG	10/30/95		Methyl iodide
PRS16-010B7	95.14158	108101	< 22.		UG/KG	10/30/95		4-Methyl-2-pentanone
PRS16-010B7	95.14158	75092	< 5.		UG/KG	10/30/95		Methylene chloride
PRS16-010B7	95.14158	103651	< 5.		UG/KG	10/30/95		Propylbenzene
PRS16-010B7	95.14158	100425	< 5.		UG/KG	10/30/95		Styrene
PRS16-010B7	95.14158	630206	< 5.		UG/KG	10/30/95		1,1,1,2-Tetrachloroethane
PRS16-010B7	95.14158	79345	< 5.		UG/KG	10/30/95		1,1,2,2-Tetrachloroethane
PRS16-010B7	95.14158	127184	< 5.		UG/KG	10/30/95		Tetrachloroethylene
PRS16-010B7	95.14158	108883	< 5.		UG/KG	10/30/95		Toluene
PRS16-010B7	95.14158	76131	< 5.		UG/KG	10/30/95		1,1,2-Trichloro-1,2,2-trifluoroethane
PRS16-010B7	95.14158	71556	< 5.		UG/KG	10/30/95		1,1,1-Trichloroethane
PRS16-010B7	95.14158	79005	< 5.		UG/KG	10/30/95		1,1,2-Trichloroethane
PRS16-010B7	95.14158	79016	< 5.		UG/KG	10/30/95		Trichloroethene
PRS16-010B7	95.14158	75694	< 5.		UG/KG	10/30/95		Trichlorofluoromethane
PRS16-010B7	95.14158	96184	< 5.		UG/KG	10/30/95		1,2,3-Trichloropropane
PRS16-010B7	95.14158	95636	< 5.		UG/KG	10/30/95		1,2,4-Trimethylbenzene
PRS16-010B7	95.14158	108678	< 5.		UG/KG	10/30/95		1,3,5-Trimethylbenzene
PRS16-010B7	95.14158	75014	< 11.		UG/KG	10/30/95		Vinyl chloride
PRS16-010B7	95.14158	1330207	< 5.		UG/KG	10/30/95		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 95.14158

none

********** EM-9 QUALITY ASSURANCE REPORT **********

EPA VOLATILES Prepared by: JA on 30-Oct-1995

REQUEST NUMBER: 22530 MATRIX: SS ANALYST: MICHAEL GUTTMAN PROGRAM CODE: WE5A NOTEBOOK: F060707 PAGE:

OWNER: Ron C. Conrad GROUP: ESH-19 MAIL-STOP: K490 PHONE: 7-0950 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QA SAMPLES RUN WITH THIS BATCH

There were no open (non-blind) Quality Control materials run with the samples reported above for one of the following reasons:

____ Only qualitative data requested

____ Only Blind QC samples run with this batch.

____ No QC samples run with this sample batch.

____ No QC samples for this constituent and matrix type available within CST

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLANK QC SAMPLES RUN WITH THIS BATCH

Blank Results, Sample # 95.14159 Date Collected: 8/24/95 Date Received: 8/25/95 Date Extracted: 8/31/95 Date Analyzed: 8/31/95

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.14159	67641	< 20.		UG/KG	0.0		10/30/95	UNDER CONTROL	Acetone
00.20227	95.14159	71432	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Benzene
00.20227	95.14159	108861	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Bromobenzene
00.20227	95.14159	74975	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Bromochloromethane
00.20227	95.14159	75274	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Bromodichloromethane
00.20227	95.14159	75252	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Bromoform
00.20227	95.14159	74839	< 10.		UG/KG	0.0		10/30/95	UNDER CONTROL	Bromomethane
00.20227	95.14159	78933	< 20.		UG/KG	0.0		10/30/95	UNDER CONTROL	2-Butanone
00.20227	95.14159	104518	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	n-Butylbenzene
00.20227	95.14159	135988	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	sec-Butylbenzene
00.20227	95.14159	98066	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	tert-Butylbenzene
00.20227	95.14159	75150	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Carbon disulfide
00.20227	95.14159	56235	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Carbon tetrachloride
00.20227	95.14159	108907	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Chlorobenzene
00.20227	95.14159	124481	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Chlorodibromomethane
00.20227	95.14159	75003	< 10.		UG/KG	0.0		10/30/95	UNDER CONTROL	Chloroethane
00.20227	95.14159	67663	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Chloroform
00.20227	95.14159	74873	< 10.		UG/KG	0.0		10/30/95	UNDER CONTROL	Chloromethane
00.20227	95.14159	95498	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	o-Chlorotoluene
00.20227	95.14159	106434	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	p-Chlorotoluene
00.20227	95.14159	96128	< 10.		UG/KG	0.0		10/30/95	UNDER CONTROL	1,2-Dibromo-3-chloropropane

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.14159	74953	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Dibromomethane
00.20227	95.14159	95501	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.20227	95.14159	541731	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.20227	95.14159	106467	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.20227	95.14159	75718	< 10.		UG/KG	0.0		10/30/95	UNDER CONTROL	Dichlorodifluoromethane
00.20227	95.14159	75343	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	1,1-Dichloroethane
00.20227	95.14159	107062	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	1,2-Dichloroethane
00.20227	95.14159	75354	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	1,1-Dichloroethene
00.20227	95.14159	156605	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	trans-1,2-Dichloroethene
00.20227	95.14159	156592	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	cis-1,2-Dichloroethylene
00.20227	95.14159	78875	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	1,2-Dichloropropane
00.20227	95.14159	142289	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	1,3-Dichloropropane
00.20227	95.14159	594207	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	2,2-Dichloropropane
00.20227	95.14159	563586	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	1,1-Dichloropropene
00.20227	95.14159	10061015	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	cis-1,3-Dichloropropene
00.20227	95.14159	10061026	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	trans-1,3-Dichloropropene
00.20227	95.14159	100414	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Ethylbenzene
00.20227	95.14159	106934	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Ethylene dibromide
00.20227	95.14159	591786	< 20.		UG/KG	0.0		10/30/95	UNDER CONTROL	2-Hexanone
00.20227	95.14159	98828	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Isopropylbenzene
00.20227	95.14159	99876	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	4-Isopropyltoluene
00.20227	95.14159	74884	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Methyl iodide
00.20227	95.14159	108101	< 20.		UG/KG	0.0		10/30/95	UNDER CONTROL	4-Methyl-2-pentanone
00.20227	95.14159	75092	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Methylene chloride
00.20227	95.14159	103651	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Propylbenzene
00.20227	95.14159	100425	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Styrene
00.20227	95.14159	630206	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	1,1,1,2-Tetrachloroethane
00.20227	95.14159	79345	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	1,1,2,2-Tetrachloroethane
00.20227	95.14159	127184	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Tetrachloroethylene
00.20227	95.14159	108883	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Toluene
00.20227	95.14159	76131	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroethan
00.20227	95.14159	71556	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	1,1,1-Trichloroethane
00.20227	95.14159	79005	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	1,1,2-Trichloroethane
00.20227	95.14159	79016	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Trichloroethene
00.20227	95.14159	75694	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Trichlorofluoromethane
00.20227	95.14159	96184	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	1,2,3-Trichloropropane

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	95.14159	95636	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	1,2,4-Trimethylbenzene
00.20227	95.14159	108678	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	1,3,5-Trimethylbenzene
00.20227	95.14159	75014	< 10.		UG/KG	0.0		10/30/95	UNDER CONTROL	Vinyl chloride
00.20227	95.14159	1330207	< 5.		UG/KG	0.0		10/30/95	UNDER CONTROL	Mixed-Xylenes (o ± m ± p)

Blank Spike Results: none

Blank Spike Duplicate Results: none

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLIND QA SAMPLES RUN WITH THIS BATCH

Blind QC Results, Sample # 95.09893 Date Collected: 8/24/95 Date Received: 8/25/95 Date Extracted: 8/31/95 Date Analyzed: 8/31/95

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
95.09893	67641	< 20.		UG/KG	0.0		6/26/95	UNDER CONTROL	Acetone
95.09893	71432	28.	8.4	UG/KG	25.	2.5	6/26/95	UNDER CONTROL	Benzene
95.09893	108861	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	Bromobenzene
95.09893	74975	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	Bromochloromethane
95.09893	75274	19.	5.7	UG/KG	20.6	2.1	6/26/95	UNDER CONTROL	Bromodichloromethane
95.09893	75252	58.	17.4	UG/KG	73.5	7.4	6/26/95	UNDER CONTROL	Bromoform
95.09893	74839	< 10.		UG/KG	0.0		6/26/95	UNDER CONTROL	Bromomethane
95.09893	78933	< 20.		UG/KG	0.0		6/26/95	UNDER CONTROL	2-Butanone
95.09893	104518	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	n-Butylbenzene
95.09893	135988	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	sec-Butylbenzene
95.09893	98066	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	tert-Butylbenzene
95.09893	75150	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	Carbon disulfide
95.09893	56235	34.	10.2	UG/KG	34.9	3.5	6/26/95	UNDER CONTROL	Carbon tetrachloride
95.09893	108907	34.	10.2	UG/KG	37.8	3.8	6/26/95	UNDER CONTROL	Chlorobenzene
95.09893	124481	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	Chlorodibromomethane
95.09893	75003	< 10.		UG/KG	0.0		6/26/95	UNDER CONTROL	Chloroethane
95.09893	67663	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	Chloroform
95.09893	74873	< 10.		UG/KG	0.0		6/26/95	UNDER CONTROL	Chloromethane
95.09893	95498	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	o-Chlorotoluene
95.09893	106434	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	p-Chlorotoluene
95.09893	96128	< 10.		UG/KG	0.0		6/26/95	UNDER CONTROL	1,2-Dibromo-3-chloropropane
95.09893	74953	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	Dibromomethane
95.09893	95501	40.	12.	UG/KG	43.	4.3	6/26/95	UNDER CONTROL	o-Dichlorobenzene (1,2)
95.09893	541731	93.	27.9	UG/KG	100.	10.	6/26/95	UNDER CONTROL	m-Dichlorobenzene (1,3)
95.09893	106467	52.	15.6	UG/KG	56.3	5.6	6/26/95	UNDER CONTROL	p-Dichlorobenzene (1,4)
95.09893	75718	< 10.		UG/KG	0.0		6/26/95	UNDER CONTROL	Dichlorodifluoromethane

95.09893	75343	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	1,1-Dichloroethane
95.09893	107062	53.	15.9	UG/KG	57.3	5.7	6/26/95	UNDER CONTROL	1,2-Dichloroethane
95.09893	75354	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	1,1-Dichloroethene
95.09893	156605	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	trans-1,2-Dichloroethene
95.09893	156592	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	cis-1,2-Dichloroethylene
95.09893	78875	48.	14.4	UG/KG	50.1	5.	6/26/95	UNDER CONTROL	1,2-Dichloropropane
95.09893	142289	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	1,3-Dichloropropane
95.09893	594207	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	2,2-Dichloropropane
95.09893	563586	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	1,1-Dichloropropene
95.09893	10061015	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	cis-1,3-Dichloropropene
95.09893	10061026	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	trans-1,3-Dichloropropene
95.09893	100414	33.	9.9	UG/KG	34.6	3.5	6/26/95	UNDER CONTROL	Ethylbenzene
95.09893	106934	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	Ethylene dibromide
95.09893	591786	< 20.		UG/KG	0.0		6/26/95	UNDER CONTROL	2-Hexanone
95.09893	98828	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	Isopropylbenzene

95.09893	99876	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	4-Isopropyltoluene
95.09893	74884	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	Methyl iodide
95.09893	108101	70.	21.	UG/KG	81.	8.1	6/26/95	UNDER CONTROL	4-Methyl-2-pentanone
95.09893	75092	100.	30.	UG/KG	110.	11.	6/26/95	UNDER CONTROL	Methylene chloride
95.09893	103651	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	Propylbenzene
95.09893	100425	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	Styrene
95.09893	630206	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	1,1,1,2-Tetrachloroethane
95.09893	79345	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	1,1,2,2-Tetrachloroethane
95.09893	127184	73.	21.9	UG/KG	82.8	8.3	6/26/95	UNDER CONTROL	Tetrachloroethylene
95.09893	108883	55.	16.5	UG/KG	62.3	6.2	6/26/95	UNDER CONTROL	Toluene
95.09893	76131	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroethane
95.09893	71556	66.	19.8	UG/KG	71.3	7.1	6/26/95	UNDER CONTROL	1,1,1-Trichloroethane
95.09893	79005	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	1,1,2-Trichloroethane
95.09893	79016	41.	12.3	UG/KG	46.6	4.7	6/26/95	UNDER CONTROL	Trichloroethene
95.09893	75694	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	Trichlorofluoromethane
95.09893	96184	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	1,2,3-Trichloropropane
95.09893	95636	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	1,2,4-Trimethylbenzene
95.09893	108678	< 5.		UG/KG	0.0		6/26/95	UNDER CONTROL	1,3,5-Trimethylbenzene
95.09893	75014	< 10.		UG/KG	0.0		6/26/95	UNDER CONTROL	Vinyl chloride
95.09893	1330207	110.	33.	UG/KG	122.7	12.3	6/26/95	UNDER CONTROL	Mixed-Xylenes (o ± m ± p)

********** EM-9 QUALITY ASSURANCE REPORT **********

SURROGATE RESULTS FOR EPA VOLATILES

Surrogate 1 = 1,2-Dichloroethane d4 (CAS # = 17060070)
Surrogate 2 = Toluene d8 (CAS # = 2037265)
Surrogate 3 = 4-Bromofluorobenzene (CAS # = 460004)
Surrogate 4 = 2-Chlorostyrene (CAS # = 2039874)
Surrogate 5 = Dibromofluoromethane (CAS # = 1868537)

SAMPLE NUMBER	UNITS	Surrogate 1	Surrogate 2	Surrogate 3	Surrogate 4	Surrogate 5	COMPLETION DATE	SAMPLE TYPE
95.09893	%	0.0	102.	100.		98.	26-Jun-1995	
95.14158	%	0.0	98.	100.		100.	30-Oct-1995	
95.14159	%	0.0	98.	95.		106.	30-Oct-1995	B
EPA Limits:								
Water	%	76 - 114	88 - 110	86 - 115	86 - 115	86 - 118		
Soil	%	70 - 121	81 - 117	74 - 121	74 - 121			

REPORT NUMBER: 38842

Analyst	Reviewer	Team Leader	QA Officer
10/31/95	10/31/95		10/31/95
Date	Date	Date	Date

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1992,' LA-12790-MS, Vol. I, pp. 19-20

****

PRE-ANALYSIS AGREEMENT

CUSTOMER: Catherine Rivera-Dirks/Ron Conrad

PROGRAM CODE/COST CODE: WE5A 0300/7C19

MATRIX: Soil

NUMBER OF SAMPLES: ~ 28

ESTIMATED DATE OF SUBMITTAL: July 31, 1995

INORGANIC ANALYTES	ORGANIC ANALYTES	METHOD
Metals	--------	3050 extraction
Total U	--------	KPA
---------	VOAs	8260
---------	SVOAs	8270
---------	TPH	418.1
---------	HE	8330

REMARKS:

Catherine Rivera-Dirks
REQUESTOR

Diana Martinez 7/5/95
SAMPLE RECEIVING

July 3, 1995
DATE

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

WASTE SITE STUDIES CHAIN OF CUSTODY RECORD

Environmental Protection Group
Mail Stop K490 Los Alamos, NM

Project Name: OU 1082
TA-16 BURNING GROUNDS

Sampling Team: Catherine Rivera-Dirks, R. Conrad, G. Ortega, M. Childs, E. Velasquez, J. Armijo, V. Garcia, Eddie Tafoya

Date	Time	Comp.	Grab	Station Location / Sample ID		No. of Containers	α β γ / Gross Rad	Metals	VOAs	SVOAs	HE	TPH	TOTAL U	Label No.	Remarks
7/31/95	08:45		✓	PRS 16-010B1	✓	2		✓	✓	✓		✓			
	08:35		✓	PRS 16-010B2	✓	3		✓		✓	✓				
	08:58		✓	PRS 16-010B3	✓	2		✓			✓	✓			
	08:41		✓	PRS 16-010B4	✓	2		✓	✓						
	08:50		✓	PRS 16-010B5	✓	3		✓	✓		✓				
	08:47		✓	PRS 16-010B6	✓	5		✓	✓	✓	✓	✓			
			✓	~~PRS 16-010B7~~											
	09:10		✓	PRS 16-010B8	✓	3		✓		✓	✓		✓		
	09:15		✓	PRS 16-010B9	✓	3		✓		✓	✓		✓		
	09:25		✓	PRS 16-010B10	✓	2		✓			✓				
	09:25		✓	PRS 16-010B11	✓	4		✓	✓	✓	✓		✓		
	09:30		✓	PRS 16-010B12	✓	4		✓	✓	✓	✓		✓		
	09:15		✓	PRS 16-010B13	✓	5		✓	✓	✓	✓	✓			
	09:05		✓	PRS 16-010B14	✓	5		✓	✓	✓	✓	✓	✓		
	08:35		✓	PRS 16-010B15	✓	3		✓		✓		✓			
	09:45		✓	PRS 16-010J1	✓	5		✓	✓	✓	✓	✓			
	10:18		✓	PRS 16-010J2	✓	4		✓	✓	✓		✓			
	10:22		✓	PRS 16-010J3	✓	4		✓	✓	✓		✓			
	10:10		✓	PRS 16-010J4	✓	2			✓	✓					
	10:10		✓	PRS 16-010J5	✓	3		✓	✓			✓			
↓	10:30		✓	PRS 16-010J6	✓	5		✓	✓	✓	✓	✓			

CRD July 31, 1995

Relinquished by:	Date / Time:	Received by:	Relinquished by:	Date / Time:	Received by:
Catherine Rivera-Dirks	7/31/95 3:50	Joyce Vigil			
Relinquished by:	**Date / Time:**	**Received by:**	**Remarks**		

Original Accompanies Shipment. Copy to Field Files.

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

WASTE SITE STUDIES CHAIN OF CUSTODY RECORD

Environmental Protection Group
Mail Stop K490 Los Alamos, NM

Project Name: OU 1082
TA-16 BURNING GROUNDS

Sampling Team: C. Rivera-Dirks, R. Conrad, G. Ortega, M. Childs, E. Velasquez, J. Armijo, U. Garcia, E. Tafoya

Date	Time	Comp.	Grab	Station Location / Sample ID	No. of Containers	α β γ / Gross Rad	Metals	VOAs	SVOAs	HE	TPH	Total U SRO July 31, 1995	Label No.	Remarks
7/31/95	10:00		✓	PRS 16-010J7	5	✓	✓	✓	✓	✓	✓			
	10:25		✓	PRS 16-010J8	5	✓	✓	✓	✓	✓	✓			
	09:49		✓	PRS 16-010J9	5	✓	✓	✓	✓	✓	✓			
	09:59		✓	PRS 16-010J10	3	✓	✓	✓						
	10:27		✓	PRS BKG-1	1	✓					✓			
	10:31		✓	PRS BKG-2	1	✓					✓			
	10:31		✓	PRS BKG-3	1	✓					✓			

Relinquished by:	Date / Time:	Received by:	Relinquished by:	Date / Time:	Received by:
Catherine Rivera-Dirks	7/31/95 3:50	Joyce Vigil			
Relinquished by:	Date / Time:	Received by:	Remarks		

Original Accompanies Shipment. Copy to Field Files.

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

WASTE SITE STUDIES CHAIN OF CUSTODY RECORD

Environmental Protection Group
Mail Stop K490 Los Alamos, NM

Project Name: TA-16 S-SITE SAMPLING

Sampling Team: R. Conrad, C. Rivera-Dirks, U. Garcia, G. Ortega, E. Velasquez, M. Childs, J. Armijo

Date	Time	Comp.	Grab	Station Location / Sample ID	No. of Containers	α-β-γ-Gross Rad	Metals-IX&RE	HE				Label No.	Remarks
8/9/95	9:09		✓	PRS 16-01DB7	1			✓					

Relinquished by:	Date / Time:	Received by:	Relinquished by:	Date / Time:	Received by:
Elmer Velasquez	8/9/95 9:20	Ralph Vigil			
Ralph Vigil	8/9/95 1Pm	Ron Zeiger	Remarks		

Original Accompanies Shipment. Copy to Field Files.

ESH-19 SAMPLE COLLECTION LOG

DATE: July 31, 1995 **TECHNICAL AREA:** 16

SITE WORK PLAN: Burning Grounds (Flash pads & burning trays)

SIGNATURE: Catherine Rivera-Quirk, O.S.

LOCATION	SAMPLE TYPE	TIME	DEPTH OF SAMPLE	β/γ READING BEFORE	β/γ READING HNU	SAMPLER
B1	SOIL	08:45	0-6 in	278	>1	Ron Conrad
B2	↓	08:35	↓	271	>1	Ron Conrad
B3		08:58		194	>1	Ron Conrad
B4		08:41		239	>1	Ron Conrad
B5		08:50		216	>1	Ron Conrad
B6		08:47	↓	206	>1	Ron Conrad
~~B7~~	NOT TAKEN DUE TO [redacted] THE				POSITIVE!	
B8		09:10	0-6 in	235	>1	Ron Conrad
B9		09:15	↓	251	>1	Ron Conrad
B10		09:25		259	>1	Elmer Velasquez
B11		09:25		202	>1	Ron Conrad
B12		09:30	↓	237	>1	Ron Conrad
B13	↓	09:15	14 in.	212	>1	Ron Conrad
B14	ASHES	09:05	0-6 in.	139	>1	Ron Conrad
B15	SAME SAMPLE AS B2 (REPLICATE)					
J1	SOIL	09:45	0-6 in.	206	>1	Marquis Childs
J2	↓	10:18	↓	222	>1	Marquis Childs
J3		10:22		229	>1	Marquis Childs
J4		10:10		253	>1	Marquis Childs
J5		10:10		271	>1	Marquis Childs
J6		10:30		265	>1	Ron Conrad
J7		10:00		245	>1	Marquis Childs
J8		10:25		233	>1	Elmer Velasquez
J9		09:49	↓	243	>1	Marquis Childs
J10		09:59		236	>1	Elmer Velasquez
BKG-1		10:27		241		Marquis Childs
BKG-2		10:31		255		Marquis Childs
BKG-3	↓	10:31	↓	210		Marquis Childs

07-31-95
12:34

Berthold LB770 Control System: LB770 1

Page: 1

S A M P L E M E A S U R E M E N T

Comment: RUN BY JOHN RIVERA-DIRKS
LB770 Number 1 User File: FIELD SCREENING Sample Data File: NONE
File Set: S-SITE BURNING GROUN Mode: Alpha/Beta
Bias.Counter [V] = 1663 HV-Guard Counter [V] = 1663
Statistical Error Definition: 3 standard deviation(s)

Category List [pCi/g]:

Category	Alpha Low	Alpha High	Beta Low	Beta High

	1	2	3	4	5
BG Alpha [cpm]	1.75	1.49	1.85	1.63	1.52
BG Beta [cpm]	11.6	11.5	11.4	11.7	12.5
Eff. Alpha	0.045	0.046	0.044	0.043	0.061
Eff. Beta	0.139	0.159	0.142	0.202	0.203
Spillover	0.093	0.091	0.096	0.102	0.093
T(1/2) Alpha [days]	--	--	--	--	--
T(1/2) Beta [days]	--	--	--	--	--
Manuf. Alpha Date	--/--/--	--/--/--	--/--/--	--/--/--	--/--/--
Manuf. Beta Date	--/--/--	--/--/--	--/--/--	--/--/--	--/--/--
Normalization	27.0	27.0	27.0	27.0	27.0

Sample Results

Measurement Date 07-31-95 Time 12:34:33
Measuring Time [min:sec] Elapsed 0016:41 Preset 0016:40 Cycle 1/1
Guard [cpm] 1210

Det#	Spl#	Spl. Name	ALPHA pCi/g	ALPHA %Error	ALPHA Cat	BETA pCi/g	BETA %Error	BETA Cat
1	21	B-1	4.68	> 100	1	30.4	44.7	1
2	22	B-2	5.95	> 100	1	30.6	39.6	1
3	23	B-3	5.60	> 100	1	12.9	93.7	1
4	24	B-4	2.39	> 100	1	3.93	> 100	1
5	25	B-5	3.82	> 100	1	16.4	56.5	1
6	26	B-6	0.000	0.000	1	21.4	52.6	1
7	27	B-8	2.77	> 100	1	19.5	61.5	1
8	28	B-9	3.31	> 100	1	21.4	55.2	1
9	29	B-10	9.27	> 100	1	23.5	38.4	1
10	30	B-11	0.000	0.000	1	36.1	37.4	1

07-31-95
12:54

Berthold LB770 Control System: LB770 1

Page: 1

S A M P L E M E A S U R E M E N T

Comment: RUN BY CATHERINE RIVERA-DIRKS
LB770 Number 1 User File: FIELD SCREENING Sample Data File: NONE
Cycle Set: S-SITE BURNING GROUN Mode: Alpha/Beta
Bias.Counter [V] = 1663 HV-Guard Counter [V] = 1663
Statistical Error Definition: 3 standard deviation(s)

Category List [pCi/g]:

Category	Alpha Low	Alpha High	Beta Low	Beta High

	1	2	3	4	5
BG Alpha [cpm]	1.75	1.49	1.85	1.63	1.52
BG Beta [cpm]	11.6	11.5	11.4	11.7	12.5
Eff. Alpha	0.045	0.046	0.044	0.043	0.061
Eff. Beta	0.139	0.159	0.142	0.202	0.203
Spillover	0.093	0.091	0.096	0.102	0.093
T(1/2) Alpha [days]	--	--	--	--	--
T(1/2) Beta [days]	--	--	--	--	--
Manuf. Alpha Date	--/--/--	--/--/--	--/--/--	--/--/--	--/--/--
Manuf. Beta Date	--/--/--	--/--/--	--/--/--	--/--/--	--/--/--
Normalization	27.0	27.0	27.0	27.0	27.0

Sample Results

Measurement Date 07-31-95 Time 12:54:43
Measuring Time [min:sec] Elapsed 0016:41 Preset 0016:40 Cycle 1/1
Guard [cpm] 1211

Det#	Spl#	Spl. Name	ALPHA pCi/g	ALPHA %Error	ALPHA Cat	BETA pCi/g	BETA %Error	BETA Cat
1	31	B-12	12.5	> 100	1	20.9	62.2	1
2	32	B-13	9.47	> 100	1	32.3	37.8	1
3	33	B-14	0.000	0.000	1	3.99	> 100	1
4	34	J1	18.7	92.3	1	16.7	54.8	1
5	35	J2	10.9	> 100	1	16.5	56.4	1
6	36	J3	4.48	> 100	1	14.6	73.9	1
7	37	J4	2.77	> 100	1	21.1	57.3	1
8	38	J5	11.4	> 100	1	31.7	39.4	1
9	39	J6	8.69	> 100	1	13.3	63.3	1
10	40	J7	7.48	> 100	1	16.7	73.6	1

Detectors with Trend:G

08-24-95 Berthold LB770 Control System: LB770 1 Page: 1
11:41 S A M P L E M E A S U R E M E N T

C ent: RUN BY B. ART
LB770 Number 1 User File: FIELD SCREENING Sample Data File: NONE
le Set: TA-16 Mode: Alpha/Beta
eas.Counter [V] = 1663 HV-Guard Counter [V] = 1663
Statistical Error Definition: 3 standard deviation(s)

Category List [pCi/g]:

Category	Alpha Low	Alpha High	Beta Low	Beta High

	1	2	3	4	5
BG Alpha [cpm]	1.75	1.49	1.85	1.63	1.52
BG Beta [cpm]	11.6	11.5	11.4	11.7	12.5
Eff. Alpha	0.045	0.046	0.044	0.043	0.061
Eff. Beta	0.139	0.159	0.142	0.202	0.203
Spillover	0.093	0.091	0.096	0.102	0.093
T(1/2) Alpha [days]	--	--	--	--	--
T(1/2) Beta [days]	--	--	--	--	--
Manuf. Alpha Date	--/--/--	--/--/--	--/--/--	--/--/--	--/--/--
Manuf. Beta Date	--/--/--	--/--/--	--/--/--	--/--/--	--/--/--
Normalization	27.0	27.0	27.0	27.0	27.0

Sample Results

Measurement Date 08-24-95 Time 11:18:16
Measuring Time [min:sec] Elapsed 0016:41 Preset 0016:40 Cycle 1/1
Guard [cpm] 1213

Det#	Spl#	Spl. Name	ALPHA pCi/g	ALPHA %Error	ALPHA Cat	BETA pCi/g	BETA %Error	BETA Cat
1	10		0.000	0.000	1	0.000	0.000	1
2	11		0.000	0.000	1	0.000	0.000	1
3	12		0.000	0.000	1	0.000	0.000	1
4	13		0.000	0.000	1	0.000	0.000	1
5	14		0.000	0.000	1	0.000	0.000	1
6	15		0.000	0.000	1	0.000	0.000	1
7	16		0.000	0.000	1	0.000	0.000	1
8	17	B7	0.000	0.000	1	14.8	76.4	1
9	18		0.000	0.000	1	0.000	0.000	1
10	19		0.000	0.000	1	0.000	0.000	1

07-31-95
15:23

Berthold LB770 Control System: LB770 1

Page: 1

S A M P L E M E A S U R E M E N T

Comment: RUN BY CATHERINE RIVERA-DIRKS
LP[illegible] Number 1 User File: FIELD SCREENING Sample Data File: NONE
S[illegible]e Set: S-SITE BURNING GROUN Mode: Alpha/Beta
HV[illegible] s.Counter [V] = 1663 HV-Guard Counter [V] = 1663
Sta[illegible]stical Error Definition: 3 standard deviation(s)

Category List [pCi/g]:

Category	Alpha Low	Alpha High	Beta Low	Beta High

	1	2	3	4	5
BG Alpha [cpm]	1.75	1.49	1.85	1.63	1.52
BG Beta [cpm]	11.6	11.5	11.4	11.7	12.5
Eff. Alpha	0.045	0.046	0.044	0.043	0.061
Eff. Beta	0.139	0.159	0.142	0.202	0.203
Spillover	0.093	0.091	0.096	0.102	0.093
T(1/2) Alpha [days]	--	--	--	--	--
T(1/2) Beta [days]	--	--	--	--	--
Manuf. Alpha Date	--/--/--	--/--/--	--/--/--	--/--/--	--/--/--
Manuf. Beta Date	--/--/--	--/--/--	--/--/--	--/--/--	--/--/--
Normalization	27.0	27.0	27.0	27.0	27.0

Sample Results

Measurement Date 07-31-95 Time 13:20:49
Mea[illegible]ring Time [min:sec] Elapsed 0016:41 Preset 0016:40 Cycle 1/1
Guard [cpm] 1220

Det#	Spl#	Spl. Name	ALPHA pCi/g	ALPHA %Error	ALPHA Cat	BETA pCi/g	BETA %Error	BETA Cat
1	41	J-8	5.28	> 100	1	28.5	47.3	1
2	42	J-9	0.000	0.000	1	0.000	0.000	1
3	43	J-10	0.000	0.000	1	7.91	> 100	1
4	44	BKG-1	7.41	> 100	1	20.8	45.1	1
5	45	BKG-2	3.38	> 100	1	27.1	36.7	1
6	46	BKG-3	0.000	0.000	1	3.80	> 100	1
7	47		0.000	0.000	1	0.000	0.000	1
8	48		0.000	0.000	1	0.000	0.000	1
9	49		0.000	0.000	1	0.000	0.000	1
10	50		0.000	0.000	1	0.000	0.000	1

8/21/95

Catherine,

DX-16 called me w/ the HE result on the 16-0016-7 sample that yielded a field test (+) for HE.

Terry Spontaneck said HE total 22 ppm or 22 µg/g. This is nowhere near the 5% HE cutoff point for transportation to our CST-9 lab. 5% HE on a soil sample would be:

$0.05 \times 10^6 \mu g = 50{,}000 \mu g$

or $\frac{50{,}000}{1 \times 10^6} = 5\%$ HE

[redacted]

Our HE only 22 µg or $\frac{22}{50{,}000}$

$= 0.04\%$ HE.

Get bit ready + ask Elmer to go collect sample. Call Bill McCormick + apprise him of the DX-16 result.

Thanks,
Ron

Form WX-12-1
November 5, 1981

HE DECONTAMINATION SLIP

Date 7-31-95

LOCATION: TA-11 - Bldg. No. _____ TA-28 - Bldg. No. _____

TA-16 - Bldg. No. B6 387, 394 TA-37 - Bldg. No. _____

Item: Soil Samples @ 387 = 14 Samples 3 Backgrounds
Soil Samples @ 394 = 11 Samples

Property No. _____ Production Order No. _____

Certified for: REPAIR TRANSFER > TA-59 CST-3 STORAGE

Method of decontamination: —

Decontaminating Operator: —

Certifying Agent: Bill [illegible]

Remarks: No H.E. contamination detected with H.E. Kit

Job Order No. _____

LOS ALAMOS
NATIONAL LABORATORY

HAZARDOUS MATERIALS TRANSFER
(Other Than Radioactive)

HM No.	SM No.	Date 8-8-95

GENERAL INSTRUCTIONS: This form is an official shipping document for transporting hazardous material within LANL boundaries. Type or print all entries. Material Safety Data Sheets (*MSDS*) and appropriate Emergency Response Guide information must be attached to this document. Distribution of completed forms is indicated below.

FROM					TO				
Name: Linda Fluck / BERT MARTIN					Name: Tom Rivera				
Telephone: 667-6792	Group: Risen	TA: 16	Building: 389	Room	Telephone: 667-4411	Group: DX-16	TA: 9	Building	Room

Item A	No. of Pkgs.	Proper Shipping Name	Hazard Class and Division	UN/NA Number	Packing Group	Net Qty. Wt./Vol.
	1	Articles, Explosive N.O.S. (PBXS501)	1.4E	UN0471	II	5gm

Additional Description	Gross Weight	Required Labels	Required Placards
Soil Samples	10#	Explosive 1.4E	N/A

Packaging Used	Packaged By	Z Number	Date
STC	Bert Martin	076763	8-8-95

Item B	No. of Pkgs.	Proper Shipping Name	Hazard Class and Division	UN/NA Number	Packing Group	Net Qty. Wt./Vol.

Additional Description	Gross Weight	Required Labels	Required Placards

Packaging Used	Packaged By	Z Number	Date

Item C	No. of Pkgs.	Proper Shipping Name	Hazard Class and Division	UN/NA Number	Packing Group	Net Qty. Wt./Vol.

Additional Description	Gross Weight	Required Labels	Required Placards

Packaging Used	Packaged By	Z Number	Date

Item A	Cost Code	Prog Code\Cost Acct\Wk Pkg	Item B	Cost Code	Prog Code\Cost Acct\Wk Pkg	Item C	Cost Code	Prog Code\Cost Acct\Wk Pkg
	8M02	CM31/0000						

EMERGENCY RESPONSE TELEPHONE NUMBER: (505) 667-6211

EMERGENCY CONTACT TELEPHONE NUMBERS FOR INTRA-LABORATORY TRANSFERS

Name	Z Number	Group	Telephone Number	Emergency Response Guide Number(s)
Bert Martin	076763	ESH	667-6792	Item A 50 Item C
Ralph Vigil	080796	ESH	667-6792	Item B Item D

SHIPPER'S CERTIFICATION

This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Shipper (*Signature*)	Z Number	Mail Stop	Date
Bert Martin	076763	C930	8-8-95

ADDITIONAL TRANSPORTATION INFORMATION

Transporter	Z Number	Transport Vehicle License Tag Number	
R. Vigil	080796	682 642	
Estimated Date and Time of Arrival	**Material Received By**	**Z Number**	**Date/Time**
8/10/95 1020			

LOS ALAMOS
NATIONAL LABORATORY

HAZARDOUS MATERIALS TRANSFER
(Other Than Radioactive)

HM No.	SM No.	Date 8-8-95

GENERAL INSTRUCTIONS: This form is an official shipping document for transporting hazardous material within LANL boundaries. Type or print all entries. Material Safety Data Sheets (*MSDS*) and appropriate Emergency Response Guide information must be attached to this document. Distribution of completed forms is indicated below.

FROM					TO				
Name: Ron Conrad / Bert Martz					Name: Tom Rivera				
Telephone: 667-6792	Group: Kisen	TA: 66	Building: 389	Room:	Telephone: 667-4411	Group: ~~DX~~ 16	TA: 5	Building:	Room:

Item A	No. of Pkgs.	Proper Shipping Name	Hazard Class and Division	UN/NA Number	Packing Group	Net Qty. Wt./Vol.
	1	Articles, Explosive N.O.S. (PBX 9501)	1.4E	UN0471	II	5 gm

Additional Description	Gross Weight	Required Labels	Required Placards
Soil Samples	10#	Explosive 1.4E	N/A

Packaging Used	Packaged By	Z Number	Date
STC	Bert Martz	076763	8-8-95

Item B	No. of Pkgs.	Proper Shipping Name	Hazard Class and Division	UN/NA Number	Packing Group	Net Qty. Wt./Vol.

Additional Description	Gross Weight	Required Labels	Required Placards

Packaging Used	Packaged By	Z Number	Date

Item C	No. of Pkgs.	Proper Shipping Name	Hazard Class and Division	UN/NA Number	Packing Group	Net Qty. Wt./Vol.

Additional Description	Gross Weight	Required Labels	Required Placards

Packaging Used	Packaged By	Z Number	Date

Item A	Cost Code	Prog Code\Cost Acct\Wk Pkg	Item B	Cost Code	Prog Code\Cost Acct\Wk Pkg	Item C	Cost Code	Prog Code\Cost Acct\Wk Pkg
	8M02	CM31/0000						

EMERGENCY RESPONSE TELEPHONE NUMBER: (505) 667-6211

EMERGENCY CONTACT TELEPHONE NUMBERS FOR INTRA-LABORATORY TRANSFERS

Name	Z Number	Group	Telephone Number	Emergency Response Guide Number(s)
Bert Martz	076763	ESH	667-6792	Item A 50 Item C
Ralph Vigil	080796	ESH	667-6792	Item B Item D

SHIPPER'S CERTIFICATION

This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Shipper (*Signature*)	Z Number	Mail Stop	Date
Bert Martz	076763	C930	8-8-95

ADDITIONAL TRANSPORTATION INFORMATION

Transporter	Z Number	Transport Vehicle License Tag Number
R. Vigil	080796	682 642

Estimated Date and Time of Arrival	Material Received By	Z Number	Date/Time
8/10/95 1020	Ken Dallegro	089231	8-10-95 1251

1468 (4/94)

ST5052

GROUP DX-16 ANALYTICAL LABORATORY

REQUEST FOR CHEMICAL ANALYSIS

Analytical lab #: 22325
to be fill by analytical lab personnel

Name of Requester: Ron Conrad
Phone No.of Requester: 7-0950
Cost code 7C19
Program code WESA
0300 0000

Date of req: 8/4/95

Date completed: _____
to be filled by analytical lab personnel

Sample Identification: PRS 16-010817
Unclassified descriptions only BLDG 389 (BURNING GROUND)

Information Required: TATB, HPLC

****

Information that could aid analyst (i.e. special hazards, sampling methods etc.) Positive H.E Results using DX H.E Test Kit (Purple)

Sample disposition (circle one): Return to Requester Dispose of excess

It is standard laboratory practice to dispose of completed samples two months after reports is completed.

****

To be filled in by analytical lab personnel

Tests required:
High Explosives

Analyst: _____

Approval signiture (if required)*: _____

* Approval by Analytical labroratory supervisor is required if material is not listed on an ESS or HED.

Los Alamos National Laboratory Environmental Restoration
DAILY ACTIVITY LOG

Date: July 11, 1995 Sheet 1 of ____

Technical Area 16 Operable Unit ____

Site Work Plan S. Site Sampling

Signature Catherine Rivera-Dirk

Comments:

08:00 Left to TA-16 to put in stakes at sampling points around PRS 16-010B and PRS 16-010J. Crew included Ron Conrad, Tony Grieggs, Mark Robinson, and Catherine Rivera-Dirk.

08:30 Arrived at flash pad -- PRS 16-010B sampling area and placed out predetermined sampling locations; fifteen location points were set out.

09:00 Went to location area PRS 16-010J, near and around "tray." Placed 9 sample points around that area. (For location of all points, see attached map.)

Placed background samples points southwest of "tray." (see map)

09:30 Finished up & returned to TA-59. Need to put out one more stake at drainage of tray when sampling. Analyze for SVOAS & VOAS.

☐ CHECK HERE IF CONTINUED ON BACK OF THIS SHEET.

Los Alamos National Laboratory Environmental Restoration
DAILY ACTIVITY LOG

Date: July 31, 1995 Sheet 1 of 2

Technical Area 16 Operable Unit 1082

Site Work Plan Burning grounds (flash pads & burning trays)

Signature Catherine Rivera-Dirks, O.S.

Sampling Team: Ron Conrad, Gene Ortiga, Marquis Childs, C. Rivera-Dirks, Jody Armijo, Elmer Velasquez, Eddie Tafoya, Vince Garcia

Comments:

7:30 Left TA-59 and begin to check in at TA-16, S-site. Filled out proper paperwork for phone, camera, & two-way radio permits.

8:25 Ron Conrad gave a tailgate safety meeting.

8:30 Elmer Velasquez and Jody Armijo went to all sampling points and took B/X readings, HNU readings, and run the HE test. So far all the HE tests are negative. However, the ink in the pen that Elmer is using causes a reaction with the chemicals in the HE test kit and shows a purple color on the test pads where Elmer wrote the sample number. Elmer decided to stop writing the sample number on the test pads at number B2.

8:45 Elmer got a hit (positive identification) on the HE test at sample location B7. Thus, a sample was not taken at this point. B14 was on flash pad.

8:55 A replicate sample was taken at B2 instead of at B7. The analysis is for TPH, metals, and SVOAS. Sample No. B13 was taken (augured down) at 14 inches.

9:25 Finished Firing Pad Sampling.

☐ CHECK HERE IF CONTINUED ON BACK OF THIS SHEET.

Los Alamos National Laboratory Environmental Restoration
DAILY ACTIVITY LOG

Date: July 31, 1995 Sheet 2 of 2

Technical Area 16 Operable Unit 1082

Site Work Plan Burning grounds (Flash pads & burning trays)

Signature Catherine Rivera-Dirks, D.A.

Hot, very sunny - no clouds!

Comments: Cont. from page 1

9:30 Took break for 10 minutes.

9:40 Begin sampling at and around solvent burn tray. Added an extra point, sample number J10, at the end of the drainage pipe off of the burn tray. At J10, the sample ~~poin~~ location was augured down to 1 ft. when an obstruction was hit. A sample was then taken at that depth.

10:30 FINISHED SAMPLING

2:00 MARQUIS CHILDS AND ELMER VERASQUEZ WENT BACK OUT TO GO TAKE B7. HOWEVER, BILL MCCORMICK TESTED THE SAMPLE BEFORE IT WAS TAKEN OUT OF THE SITE

☐ CHECK HERE IF CONTINUED ON BACK OF THIS SHEET.

TABLE 1

SUMMARY OF SOIL SCREENING ACTION LEVELS FOR POTENTIAL CHEMICALS OF CONCERN IN SOIL, WATER, AND AIR FOR ENVIRONMENTAL CHARACTERIZATION OF LOS ALAMOS NATIONAL LABORATORY

Chemicals	Soil Screening Action Level (ug/g)
Barium	5,600
Beryllium	0.16
Cadmium	80
Chromium	400
Nickel	1600
Lead	500
Antimony	32
Thallium	6.4
Arsenic	0.40
Mercury	24
Selenium	400
1,3-DNB (dinitrobenzene)	8
2,4-DNT (dinitrotoluene)	1
2,6-DNT (dinitrotoluene)	1
HMX (cyclotetramethylenetranitramine)	4000
RDX (trimethylenetrinitramine)	64
1,3,5-TNB (trinitrobenzene)	4
2,4,6-TNT (trinitrotoluene)	40

Values taken from LA-UR-93-3987, Installation Work Plan for Environmental Restoration, Revision 3, November 1993.

SUMMARY OF TA-16 BURNING GROUND HEALTH AND SAFETY PLAN FOR ESH-19 WASTE SITE STUDY SOIL SAMPLING TEAM

1) Before entering the burning ground, everyone must check in at the ESA-WMA office, exchange badges, and notify ESA that you are going on-site. Permission must be granted by Pete Velarde before proceeding to the burning ground.
2) The FTL or SSO must give a short tailgate safety meeting each day team members are in field.
3) Avoid skin contact with dirt. By avoidance of contact with dirt, you will be minimizing the majority of the hazards at the burning ground.
4) While performing the soil sampling, avoid contact with foreign material, buried wired, or any debris that could be construed as HE.
5) Be familiar with the TA-16 muster areas, emergency exit gates, and alarm sirens.
7) Beware of truck and other vehicle traffic.
8) When working in the arroyo leading to Valle Canyon, pay particular attention to where you are walking or to where you place your hands. Rattlesnakes have been known to inhabit the area and you should be acutely aware of them.
9) Do not drive off the roadways, or circumvent any closed gates.
10) Take beta/gamma readings at sampling locations before taking the sample. Remember that action levels for the ESP-1 have been raised to 5000 cpm.
11) When a thunderstorm is coming up, prepare to get out of the burning ground and/or back to your vehicles ASAP. During the thunderstorm season, take the lightning indicator with you to give early warning of potential strikes.
12) Always carry a cellular telephone when working at the burning ground and make sure it is turned on. Permission must be gained from Bill McCormick to carry the phone at the site.
13) Practice the buddy system and never work alone. Make certain that you have line-of-sight contact with your co-workers.
14) Don't take chances climbing up and down cliffs. Take the safe way around.
15) Make certain that any collected soil is examined by Bill McCormick or his designee before leaving TA-16. Bill must give his blessing before ESH-19 can remove any material from the burning ground..
16) Exchange your badges before leaving S-Site. During an emergency, TA-16 personnel must account for everyone on site and we don't want them looking for you if you've left the area.
17) Use the HE spot test kit before taking any soil sample. Only those folks trained by DX-10 to use this kit can perform these tests. Also, the ESA SOP 1.7.0, "Soil and Water Sampling Operations in the High Explosive Areas" must be adhered to during this sampling event.
18) The areas where ESH-19 will be collecting soils is considered a "Homogeneous Area" with respect to potential HE contamination and SOP 1.7.0 will be followed in this light.
19) No sample will be taken from TA-16 that fails the HE spot test kit test procedure.

SITE SPECIFIC HEALTH AND SAFETY PLAN
THE COLLECTION OF SURFACE SOIL, FROM THE BURNING GROUND AT TA-16

WORK TO BE JULY AND AUGUST, 1995 by the Hazardous and Solid Waste Group (ESH-19)

PREPARED BY RON CONRAD, JULY 13, 1993.

Section 1.0 Introduction

This Health and Safety Plan (HASP) document defines general applicability and responsibilities with respect to compliance with health and safety guidelines associated with the sampling effort to be carried out at the burning ground at TA-16 by the Waste Site Studies Team of ESH-19.

Section 1.1 Scope and Applicability of the Site Health and Safety Plan

The purpose of this site HASP is to define the requirements and designate safety protocols to be followed at the site during sampling activities.

Applicability of this HASP extends to all LANL site workers, contractors and subcontractors, as well as visitors to the sampling sites.

Any potential health or safety hazard or emergency response activity associated with the site (s) investigation operations will be discussed (HAZCOM). This HASP summarizes those hazards in Section 3 and defines personal protive measures and equipment to be utilized at the site (s). Of course, normal ESA-WMA operational hazards or emergencies are covered by the S-Site site-specific health and safety and emergency response plans. All team members have read the FOO for S-Site HE Exclusion Area and the SOP 1.7.0 for "Soil and Water Sampling Operations in the High Explosive Areas" that allows them to perform the work within the burning ground without being escorted into the area.

This HASP must be reviewed by all site personnel and an agreement to comply with the requirements must be signed by team or ancillary personnel prior to entering the site(s). Personnel not adhering to the tenets of this HASP will not be allowed on site(s).

During development of this HASP, consideration was given to current health and safety standards as defined by EPA/OSHA/NIOSH and relevant DOE orders. Health effects and standards for known or suspected contaminants, procedures designed to cope with the potential for exposure to unknown substances are all considerations of this HASP. Specifically, the following reference sources have been consulted:

- OSHA 29 CFR 1910.120 and EPA 40 CFR 311
- OSHA/NIOSH/EPA/USCG OCCUPATIONAL HEALTH AND SAFETY Guidelines
- DOE 5400.2 ENVIRONMENTAL COMPLIANCE ISSUE COORDINATION
- DOE 5480.1B ENVIRONMENTAL, SAFETY, AND HEALTH PROGRAM FOR DOE OPERATIONS

Section 1.2 Visitors

All visitors (inspectors, compliance personnel, auditors,) entering the work zone at the site will be required to read and pledge compliance with the provisions of this HASP. In addition, visitors to the work zone will be expected to comply with relevant OSHA requirements such as medical monitoring (Sec. 6), personal protective equipment (PPE) (Sec. 5), HAZWOPER, GET, and Radiation Worker training, and respiratory protection (if applicable). TLD badges will be required for all visitors who come onto the site. These badges will be provided by LANL through Joe Cortez at 665-4854.

Every person going into the burning ground at S-Site must check in and exchange badges at the ESA-WMA offce prior to entering the site.

Section 1.3 Sampling Objectives

The objective of this sampling project is to characterize surface and near-surface soil at ther burning ground and adjacent locations to determine the nature and extent of any organic compound, HE or metal contamination.. Twenty seven soil sampling locations associated with structure 387 (flash pad) and structure 394 (burn tray) have been located for surface soil sampling. One location near the flash pad will also be sampled for a near surface soil sample at a depth of less than 12 inches. Either plastic or aluminum hand trowels will be used to collect the surface soils samples. The near-surface soil sample will be collected with a stainless steel hand auger after Bill McCormick gives his OK to collect this one sample in this manner.

Section 2.0 Key Personnel/Identification of Health and Safety Personnel

The following personnel are the key principles in the planned activities at the Site(s):

- Catherine Rivera-Dirks, Field Team Leader
- Vince Garcia, Sampler,
- Eddie Tafoya, Surveyor
- Fawn Coriz, Documentation Specialist
- Ron Conrad, Sampler, Alt. FTL, and SSO
- Gene Ortega, Assistant Sampler
- Marquis Childs, Sampler and Rad screening Technician

- Elmer Velasquez, Asst. Field Technician
- Jody Armijo, Site Safety Officer

Not all of these people will be on site at any one time but a team may consist of 5-7 members, depending on the task to be accomplished.

ESH-1 and ESH-5 (field support personnel will be available to advise the sampling task site safety officer of potential hazards at the sampling locations. The sampling team has Hnu, u-R, alpha, and beta/gamma meters that can be operated by trained team members. Team members are also trained to perform the HE spot test kit..

Section 2.1 Site Specific Health and Safety Personnel

The Site Health and Safety Officer (SSO) has total responsibility for ensuring that the provisions of this HASP are adequate, are implemented in the field, and are complied with by all site workers and visitors. Changing field conditions may require day-to day decisions to be made concerning adequate personal protection protocols. Therefore, it is vital that personnel assigned as SSO be experienced and able to meet the additional 8 hour supervisor training requirements specified by OSHA in 29 CFR 1910.120 or be on a schedule to take the training as soon as it is given at LANL. The SSO will be advised by the ESH-1 on-site monitor and/or ESH-1 and ESH-5 personnel. The SSO will take prior information and the ESH-1 monitor's advice under consideration in making decisions regarding the health and safety of the site workers. The ESH-1 monitor or his ESH-19 designee will utilize field instruments to measure potential hazards. These monitors will also recommend whether ambient air or personal sampling for potential hazards must take place. All personnel associated with this site(s) investigation have STOP WORK authority should any hazards (real or potential) be identified during this field investigation.

The SSO for the investigation is Jody Armijo, ESH-19. The alternate is and Ron Conrad.

Section 2.2 Organizational Responsibility

Group ESH-19 of the Los Alamos National Laboratory is responsible for overall administration of this project, providing all technical, regulatory, and safety expertise for the field sampling effort. LANL EM & R personnel will provide Emergency Response Operations.

Section 3.0 Task/Operation Safety and Health Risk Analysis

Section 3.1 Historical Overview of Site

This HASP defines the potential hazards identified by previous site work, available background information, and pre-investigation site visits. For a thorough overview of historical information concerning the Site(s), the following documents are key references:

Solid Waste Management Units Report, 1990, Los Alamos National Laboratory report LAUR 90-3400.

- Elmer Velasquez, Asst. Field Technician, and Tritium flux study
- Jody Armijo, Site Safety Officer

Not all of these people will be on site at any one time but a team may consist of 5-7 members, depending on the task to be accomplished.

ESH-1 and ESH-5 (field support personnel will be available to advise the sampling task site safety officer of potential hazards at the sampling locations. The sampling team has Hnu, u-R, alpha, and beta/gamma meters that can be operated by trained team members. Team members are also trained to perform the HE spot test kit..

Section 2.1 Site Specific Health and Safety Personnel

The Site Health and Safety Officer (SSO) has total responsibility for ensuring that the provisions of this HASP are adequate, are implemented in the field, and are complied with by all site workers and visitors. Changing field conditions may require day-to day decisions to be made concerning adequate personal protection protocols. Therefore, it is vital that personnel assigned as SSO be experienced and able to meet the additional 8 hour supervisor training requirements specified by OSHA in 29 CFR 1910.120 or be on a schedule to take the training as soon as it is given at LANL. The SSO will be advised by the ESH-1 on-site monitor and/or ESH-1 and ESH-5 personnel. The SSO will take prior information and the ESH-1 monitor's advice under consideration in making decisions regarding the health and safety of the site workers. The ESH-1 monitor or his ESH-19 designee will utilize field instruments to measure potential hazards. These monitors will also recommend whether ambient air or personal sampling for potential hazards must take place. All personnel associated with this site(s) investigation have STOP WORK authority should any hazards (real or potential) be identified during this field investigation.

The SSO for the investigation is Jody Armijo, ESH-19. The alternate is and Ron Conrad.

Section 2.2 Organizational Responsibility

Group ESH-19 of the Los Alamos National Laboratory is responsible for overall administration of this project, providing all technical, regulatory, and safety expertise for the field sampling effort. LANL EM & R personnel will provide Emergency Response Operations.

Section 3.0 Task/Operation Safety and Health Risk Analysis

Section 3.1 Historical Overview of Site

This HASP defines the potential hazards identified by previous site work, available background information, and pre-investigation site visits. For a thorough overview of historical information concerning the Site(s), the following documents are key references:

Solid Waste Management Units Report, 1990, Los Alamos National Laboratory report LAUR 90-3400.

RFI Work Plan for TA-16 (OU 1082), 1993. LA-UR-94-1580.

Section 3.2 Site Description

The burning ground is located in the northeast corner or TA-16 and was established in 1951 for HE treatment and disposal. PRS-16-010b or TA-16-387 is a flash pad. A flash pad consists of a layer of sand situated on the ground surface (a concrete floor walled and supported on three sides has replace the sand-on-soil setup at 387), surrounded by a 100 ft x 100 ft cyclone fence. The flash pad in its first generation was constructed in 1951. It was used for flash burning HE contaminated material.

PRS-16-010j is a burning tray that has been modified to burn oil and solvents contaminated with HE. The tray is 12 ft x 12ft x 1ft deep. The bottom of the tray has 6-8 in of sand. The tray sits several feet off the ground surface. Under the tray cobbles are arrayed. The first generation of this tray was built in 1951.

Section 3.3 Risk Analysis of Field Operations

The evaluation of site-specific hazards is based upon the knowledge of site background contamination, anticipated risks posed by the specific field operations to take place, and local hazards.

The following subsections describe each task/operation in terms of the specific hazards associated with the sampling operation. In addition, the protective measures to be implemented during completion of those operations are also identified.

This investigation will involve land surveying, collection of approximately 27 surface soil and one near-surface soil sample.samples. There will also be limited hand augering jat one location.. Soil samples will be collected by hand using plastic or aluminum scoops or a hand auger with bucket, and placed into the appropriate and marked plastic sample containers. All soil samples will be counted for gross alpha, beta, and gamma activity in the ESH-19 count lab and submitted to CST-3 for the analysis of specified constituents. It is anticipated that the individual actually taking the soil (or water) sample and placing it in the containers will be the person at most risk in any of these operations.

Land surveying involves a two or three member team carrying a theodolite and surveying rods around and sighting in sampling locations. No direct physical contact with the soil will be made by these personnel and the surveying personnel will not be in any one location for more than a few minutes.

3.3.1 Potential Hazards Expected During Soil Sampling and Land Surveying

Hazards associated with sampling surface soil or water or land or rad surveying include the following:

- Direct contact with and detonation of a piece of HE
- Inhalation of contaminant-containing dust
- Accidental ingestion of soil contaminants
- Direct contact or surface exposure to radioactivity

Physical hazards such as working in rough terrain and lightning during thunderstorms, and biological hazards that could be encountered are snakes, ticks or periods of extreme temperatures (heat stress or stroke, frostbite).

Land and radiological surveying will entail minimum contact with soils and the time spent at each location will be limited. Radiological hazards to personnel conducting these surveys will be minimal.

3.3.1.1 High Explosives

The principal potential hazard expected at the burning ground during the soil sampling event would be if HE is encountered in a form that would lead to a sustainable reaction and subsequent detonaion.. HE in this form is not expected at the burning ground. The reason for this is that HE in its primary or free state was not delivered to the burning ground to be destroyed. Any HE present was associated with equipment or expendable supplies that had been used in HE prep or other events associated with the use of HE at S-site. When equipment was flashed or burned at the flash pad, or solvents containing HE burned at the burn tray, any HE present was predominantly destroyed. Residual HE not destroyed would be carried short distances by air currents and deposited on the surface soils. This residual HE would be expected to be at very low concentrations on soil and not pose a threat by inadvertent detonation.

To minimize any hazard from HE during this soil sampling event, **the sampling team will first do a test on the soil at a particular soil sampling location with a HE spot test kit..** If any soil at that location yields a positive hit (evidence of HE in soil), a sample will not be collected at that location until Bill McCormick is advised of the hit. If a positive hit is not recorded, a soil sample will be taken.

Unless granted a waiver by Bill McCormick to use stainless steel sampling hand trowels, either plastic or aluminum scoops will be used during this sampling event.

3.3.1.2 Radiological Hazards

The following radionuclides may exist on the surface or subsurface in low concentrations:

<u>Radionuclides:</u>

•Depleted uranium

Uranium emits ionizing radiation and for this reason soils containing this radionuclide should not be ingested or inhaled. The time spent in the area of suspected radioactivity or hazardous constituent contamination should be minimized. A Radiation Work Permit (RWP) will not be required for the surface soil and water sampling at the burning ground unless the action levels listed below are exceeded. The following action levels will also be used
for the determination of PPE upgrade from modified Level D to modified Level C.

Alpha Probe(Model 139) At 500 cpm. upgrade to Level C. Between 500 and 1000 cpm, pull back and reassess PPE Background count is 0-3 cpm.
Beta/Gamma Probe(ESP-1) 5000 cpm is the action level for upgrade (background is 200-300 cpm).

3.3.1.3 Other Hazards

METALS:
Pb, Ba, and several other metals may be encountered at low concentrations at the sampling site.
Health Hazards:
Lead--toxic by chronic inhalation of dust.
Barium--a poison
It is possible that low levels of these or other metals may be present in soils at the flash pad and burn tray. However, the collection of a soil sample takes approximately one minute apiece and the exposure to the sampler of the expected low levels will be minimal.

ORGANIC COMPOUNDS:
There is a slight possibility that very low levels of PCBs, volatile or semivolatile organic compounds may be present in surface soils that will be sampled. With the extremes of temperature existent at TA-16, it it not expected that volatile organic compounds can exist at levels that may be hazardous to the sampler during the time that a sample is being collected. Semi-volatile organic compounds are also expected at only very low levels. No hazard is expected from exposure to these organic compounds during the short time soil samples are being collected. Minimal hazards are afforded to the sampler by total petroleum hydrocarbons (TPH) on soil.

HAZARD PREVENTION FOR SAMPLING PERSONNEL

All personnel will agree to abide by the ESA-WMA rules and protocols, and SOP 1.07.0, as well as this health and safety plan before being allowed to enter the site.

Care will also be taken to preclude dust generation during the collection of the soil sample with a hand held bucket auger or scoop.

Samplers and other team members will be warned of the potential hazards concerning ingestion of soil or contact with soil in any way. No eating, drinking, or smoking will be allowed within TA-16 or at the sampling sites.

Personal hygiene and practicing ALARA will be emphasized as the principal methods to preclude exposure to radiological and chemical hazards at the site(s). Sampling personnel will alternate and the alternate samplers will spend a minimum amount of time in the immediate sampling area when they are not actually sampling. All personnel will be frisked with a beta/gamma meter before leaving the site. Any clothing deemed to be contaminated will be collected and bagged before taking out of the sampling area.

3.3.1.4 Physical and Biological Hazards

The soil and surface water sampling that will be occurring at the site(s) may at times be in locations where the sampling locations are in rugged terrain. All personnel working on site will be advised of the hazards associated with working in this rugged terrain and to avoid the edge of any unstable fill area.

The SSO will be alert to the symptoms of heat stress which include profuse sweating, loss of facial color(or brightening of facial color), or slowness of movement. Personnel exhibiting these symptoms will be excused from work, cooled down and escorted to ESH-2. Frequent breaks will be standard practice at the site during the sampling occurring in hot weather and personnel will be advised to drink plenty of fluids. During the summer thunderstorm season, site workers will also have to be aware of lightning. Personnel will be warned to stay away from heights and trees, and to seek low lying areas during storms or return immediately to their vehicle.

It is possible that rattlesnakes may be encountered at the burning ground. All site workers will be on the alert for snakes, and will watch where they put their feet and hands. To minimize exposure to ticks, a tick repellent will be available on site. Hats will be standard equipment to help minimize exposure to ticks. Finally, because this sampling will occur during the summer, sun block is recommended for skin protection.

Section 4.0 Personnel Training Requirements

Consistent with OSHA's 29 CFR 1910.120 standard covering Hazardous Waste Operations and Emergency Response Operations, all site personnel are required to be trained in accordance with the standard. At a minimum, all personnel are required to recognize the hazards on-site (HAZCOM), and be familiar with the provisions of this HASP and the personnel responsible for their health and safety.

Prior to arrival on-site, the FTL will be responsible for certifying that his/her employees meet the requirements of preassignment training. Consistent with OSHA 29 CFR 1910.120 paragraph (e)(3), each employee should be have a badge certifying dates of 24 hours training of HAZWOPER training for workers occasionally on-site for a specific task, or 40 hours of HAZWOPER training for general site workers. Personnel must also receive 8 hours of annual refresher HAZWOPER training, if applicable. Each site worker will also be expected to have taken Radiation Worker I or II and GET Training and have passed the qualifying exams.

Individual site personnel will also be apprised of the necessity of having one or three days of on-the- job training to meet the requirements of the OSHA guidelines. Those personnel not having that training will receive it during the first three days in the field from the field team leader or other qualified personnel available to provide that training. This on-the-job training will be documented as it is received. Each site worker will be expected to also take first aid and CPR training. Finally, before entering the burning ground, personnel must have read and signed the S-Site Formality of Operations for Working in an HE Exclusion Zone, and meet all other ESA-WMA requirements for entering the burning ground.

Section 4.1 Field Team Leader Training

Consistent with OSHA 29 CFR 1910.120 paragraph (e)(8), individuals designated as field team leaders(or alternates) or as the field team manager(supervisory positions) require an additional 8 hours of HAZWOPER supervisor training, or be scheduled to receive this training as soon as it is offered at LANL.

The following individuals are identified field team leaders (FTL)

Name	Title/Responsibility
• Catherine Rivera-Dirks	FTL
• Vince Garcia	Alternate FTL
• Ron Conrad	Alternate FTL

Section 4.2 Briefing Topics

The following items will be discussed by a qualified individual at the site daily tailgate briefing.

- Radiological and Chemical hazards
- (See Section 3)
- Physical and Biological Hazards
- High Explosive hazards
- Emergency Procedures
- PPE Required

Section 5.0 Personal Protective Equipment To Be Used

This section describes the general requirements of the OSHA designated Levels of Protection for each task to be performed at the Site. During the sampling operation, modified Level D PPE will be used unless a situation arises that will cause this level of protection to be upgraded to Level C.

As stated above, modified Level D protection will be in effect at the site(s). It may prove necessary at times to upgrade the level of protection to modified Level C (use of respirator). An upgrade to Level C will be required for the sampler, for instance, when the action levels defined in Section 3.3.1 are exceeded. If the area where the action level is exceeded is localized, the sampler can return to modified Level D protection after the particular sample in the action level area has been taken.

Section 5.1 Level D Personnel Protective Equipment For Sampling Team:

- Coveralls or blue surgical pants, or street clothes
- Steel toed leather boots, or other approved footwear
- Safety glasses
- Hat
- Nitrile or other disposable gloves for soil sampling

Section 5.2 Level C Personnel Protective Equipment For Sampling:

- Modified Level D plus full-face respirator with HEPA filter

Section 5.3 Reassessment of Protection Program

The level of protection provided by PPE selection shall be upgraded or downgraded based upon a change in site conditions or findings of investigations, or recommendations from ESH-1 or ESH-5 support personnel. This modification will be documented and communicated to all site workers.

When a significant change in location occurs, or new data is acquired, the potential hazards should be reassessed. Some indicators of the need for reassessment are:

- Commencement of a new work phase, such as work that begins on a different portion of the site.
- Change in job tasks during a work phase.
- When temperature extremes or individual medical considerations limit the effectiveness of PPE.
- Evidence for Chemical or radioactive contaminants other than those previously identified are encountered.
- Change in ambient levels of contaminants.
- Change in work scope which effects the degree of contact with contaminants.
- Radiation action levels (Section 3.3.1) have been established to determine the upgrade of PPE. If the action levels are exceeded, as discussed above, coveralls worn by the sampler will be replaced by a white paper suit, and a respirator recommended by ESH-1 and ESH-5 support personnel will be donned by the sampler.

Section 5.3 Work Mission Duration

Before the workers actually begin work in their PPE ensembles, the anticipated duration of the work mission should be established. Several factors limit mission length at the site(s):

- Ambient temperature and weather conditions (heat, cold stress).
- Capacity of individual personnel to work in PPE (should not be a factor with Level D).

Minimal levels of PPE established for this job should not deter inviduals from working a full day in the appointed level of protection. However, for the burning ground work, 4-5 hours is the expected time to be spent in the field.

Section 6.0 Medical Surveillance Requirements

Medical monitoring programs are designed to track the physical condition of employees on a regular basis as well as to establish pre-employment or baseline conditions prior to potential exposures. The medical surveillance program is part of each employers Health and Safety program.

Section 6.1 Baseline or Preassignment Monitoring

Prior to being assigned to an activity involving exposure to toxic materials, each employee must receive a preassignment baseline physical. The extent of the physical is to be determined by the ESH-2 medical consultant. This should include, at least, a whole body count, urinalysis, and blood work. Preassignment physicals should formally certify employees as being able to wear respiratory protection, and perform other tasks as necessary. The SSO will have the final decision on whether a worker is "fit for duty" at the site. For the burning ground work, the designated samplers must be able to wear a respirator and to be physically fit for work in the semiarid climate of Los Alamos.

Section 6.2 Periodic Monitoring

ESH-2 should prescribe an adequate medical monitoring program which fulfills OSHA 29 CFR 1910.120 requirements. The preassignment medical outlined above may be applicable. Each site worker will also wear a personal dosimetry badge that must be exchanged and read monthly.

Section 6.3 Exposure/Injury/Medical Support

As a follow-up to an injury or possible exposure above established exposure limits, all employees are entitled to and encouraged to seek medical attention and physical testing.

Depending upon the type of exposure, it is critical to perform follow-up testing within 24-48 hours. It will be up to the ESH-2 medical consultant to recommend the types of medical tests

required to accurately monitor for exposure effects.

Section 7.0 Direct-Reading Monitoring Instruments

Direct-reading instruments provide information at the time of sampling. Data obtained from the real-time monitors are used to assure proper selection of personnel protection equipment, need for engineering controls, and best work practices. Overall, the instruments provide the user the capability to determine if site personnel are being exposed to concentrations which exceed exposure limits or action levels for specific hazardous materials. Real-time monitors can be useful in identifying any IDLH conditions, toxic levels of airborne contaminants, or radioactive hazards. Periodic monitoring of ambient concentrations in the breathing zone is critical, especially if exposures may have increased since initial monitoring or if new site activities have commenced.

Those employees working closest to the soil have the highest likelihood of being exposed to concentrations which may exceed established exposure limits. However, the sampling strategy may change if the operation or tasks change onsite or if exposures potentially increase.

Section 7.1 Specific Contaminants to be Monitored at the Site

The radioactive constituents listed in Section 3 are those most expected to be found at the study site(s). These constituents will most likely be transmitted to the site investigators via dust generated during sampling operations, by dust created by windy conditions or by direct contact with the soil.

Section 7.2 Site Monitoring

All exposure to potentially hazardous radioactive material is regulated under DOE Order 5480.11, "Radiation Protection for Occupational Workers.

Occupational worker guidelines safety and training in the areas of radiation workers protection are outlined in the Laboratory's Administrative Requirements AR 3-1, "Radiation Protection Program", AR 3-2, "Radiation Protection Exposure Standard", AR 3-7, "Radiation Exposure Control", and AR 3-8, "As Low as Reasonably Achievable (ALARA) Program."

Each worker will wear a personal dosimetry badge at all times. A health protection technician from ESH-1 (or a designee from ESH-19) will be present during the field operations, and will continuously monitor during the entire sampling event, specifically at each sampling location, and for each sample collected. ESH-19 personnel will also have available and will operate all relevant radiation monitoring instruments during periods of time when an ESH-1 RCT is unavailable. All equipment and personnel will be monitored as required before personnel leave the sampling site, and at the end of each working day.

Monitoring for organic constituents using the the PID in the breathing zone and radiological constituents (i.e. alpha, beta and gamma activity) on the soil surface will be conducted prior to

any sample being collected. In areas where these readings have been taken during prior samplings, and organic compound in air are not detected,the use of a PID or Hnu will not be necessary.

Action Levels For All Locations:

Radiation:	See Section 3.3.1
Organic Chemicals:	1 PPM measured in breathing zone for 1 min.

Section 8.0 Site Safety Measures

The following section defines measures and procedures for best maintaining safety and preventing hazards at the site. These following safety management practices are an essential component of the implementation of the site health and safety program.

- Logging in and out daily (name, Z number, date)
- Buddy system
- No eating, drinking or smoking.
- No horse play.
- No matches or lighters in area.
- Knowledge of procedures to implement the communications system required.
- Line of sight positioning at all times.
- Wearing the appropriate level of protection as defined in the HASP.
- Knowledge of burning ground emergency procedures

Section 8.1 Site Communications Plan

Successful communications between members of the field teams is essential. The following communications systems will be available during activities at the Site. Use of radios and cellular telephones must be cleared with Bill McCormick of ESA-WMA before use by ESH-19 at ehe burning ground.

- Two way radio
- Mobile telephone

Emergency telephone numbers will be carried by each worker to provide for easy access.

Section 8.2 Work Zone Definition

General work zones are established at the site. The work zone is defined as the area where sampling or other activity is to occur. The work zone will be administratively controlled by the

field team leader. There will be a site control officer present to control access to the work zones. No person will be allowed to enter the work zone without (1) training reguirements, (2) reading and signing the H&S plan, and (3) Modified Level D protective clothing. When a vistor approaches the area where the team is sampling, the FTL will politely explain to the visitor that environmental sampling is being undertaken in the area and to please approach no closer. To the extent that this can be done (such as at trailheads, gates, utility access corridors), signs or barricade tape will be placed advising the S-Site personnel and other visitors that environmental sampling is occurring and to avoid the area.

Section 8.4 Nearest Medical Assistance

If the illness or injury is serious or life threatening, then emergency medical help should be summoned by dialing 9-911. As stated in the Laboratory's Administrative Requirement AR 2-1, employees who experience a work-related illness or injury must report to their supervisor and then to Occupational Medicine, ESH-2.

The following individuals on-site have current certification in CPR and/or first aid:

- Catherine Rivera-Dirks
- Vince Garcia
- Eddie Tafoya
- Fawn Coriz
- Kallie Firestone
- Ron Conrad
- Vince Garcia
- Gene Ortega
- Marquis Childs

Section 9.0 Decontamination Plan

Decontamination involves the orderly and controlled removal of contaminants from personnel and equipment. Best engineering practice is for personnel to avoid contact with contaminants in order to minimize the need for extensive personnel decontamination procedures.

Section 9.1 PPE Decontamination

ESH-1 and ESH-5 support personnel are responsible for monitoring decontamination procedures and determining their effectiveness. Level D decontamination consists of removing gloves (and/or dirtied coveralls) and double bagging in plastic bags. The levels of protection required for personnel assisting with this decontamination will also be Level D.

Section 10.0 Emergency Response/Contingency Plan

This section describes contingencies and emergency planning procedures to be implemented at the Site. This plan is compatible with local, state and federal disaster and emergency management plans as appropriate.

Section 10.1 Pre-Emergency Planning

During the burning ground briefing held before activities commence, all employees will be apprised of provisions of the S-Site emergency response plan, communication systems, and evacuation routes. Mobile telephones and two-way radios will be available at the site(s) should it prove necessary to contact emergency personnel.

Section 10.2 Personnel Roles and Lines of Authority During Emergencies

The Field Team Leader has primary responsibility for responding to and correcting emergency situations that occur during sampling. This includes immediately notifying Bill McCormick or Pete Velarde and assisting him in taking appropriate measures to ensure the safety of site personnel.

Section 10.3 Evacuation Routes/Procedures

In the event of an emergency which necessitates an evacuation of the site, ESH-19 personnel will be notified by radio, mobile telephone or voice, and advised to report to the designated burning ground or S-Site muster area. Personnel will be expected to proceed to the muster area with his/her buddy. After accounting for all personnel, all personnel will follow the directives of ESA-WMA personnel coordinating the response to the emergency. If necessary, personnel will exit by the prescribed evacuation route. This route will be identified at the burning ground safety briefing prior to conducting the investigation.

Section 10.4 Emergency Contact/Notification System

The following list provides names and telephone numbers for emergency contact personnel. In the event of an emergency, personnel will take direction from the SSO and notify the appropriate emergency organization. In the event of a fire or spill, the site supervisor will notify the appropriate local, state, and federal agencies.

Organization	Contact	Telephone
ESA-WMA	Facilities Mgr.	7-6316 or 7-6310
LANL Emerg.	Emergency	9-911

Section 10.5 Emergency Medical Treatment Procedures

Any person who becomes ill or injured in the work zone must be treated immediately. If the injury or illness is minor, this person should be transported to ESH-2 for examination and treatment. If the patient's condition is serious, immediately call 9-911 and await the

arrival of an ambulance. If appropriate, first aid should be administered while awaiting an ambulance or paramedics.

10-24-95

* - INDICATES CONCENTRATIONS 20+ TIMES GREATER THAN TCLP REGULATORY LIMITS.

LOCATION	SAMPLE NUMBER	ANALYSIS	RESULTS	UNITS	SAMPLED MEDIA
16-B1	95.12834	ARSENIC	3.0	PPM	SOIL
16-B4	95.12835	ARSENIC	4.0	PPM	SOIL
16-B9	95.12836	ARSENIC	4.0	PPM	SOIL
16-B6	95.12837	ARSENIC	3.0	PPM	SOIL
16-B11	95.12838	ARSENIC	2.0	PPM	SOIL
16-B12	95.12839	ARSENIC	1.0	PPM	SOIL
16-B13	95.12840	ARSENIC	2.0	PPM	SOIL
* 16-B14	95.12841	ARSENIC	230	PPM	ASHES

LOCATION	SAMPLE NUMBER	ANALYSIS	RESULTS	UNITS	SAMPLED MEDIA
16-B1	95.12834	MERCURY	0.06	PPM	SOIL
16-B4	95.12835	MERCURY	<0.05	PPM	SOIL
16-B9	95.12836	MERCURY	0.06	PPM	SOIL
16-B6	95.12837	MERCURY	0.1	PPM	SOIL
16-B11	95.12838	MERCURY	0.06	PPM	SOIL
16-B12	95.12839	MERCURY	0.05	PPM	SOIL
16-B13	95.12840	MERCURY	0.06	PPM	SOIL
16-B14	95.12841	MURCURY	<0.05	PPM	ASHES

LOCATION	SAMPLE NUMBER	ANALYSIS	RESULTS	UNITS	SAMPLED MEDIA
16-B1	95.12834	SELENIUM	0.20	PPM	SOIL
16-B4	95.12835	SELENIUM	0.10	PPM	SOIL
16-B9	95.12836	SELENIUM	0.20	PPM	SOIL
16-B6	95.12837	SELENIUM	0.20	PPM	SOIL

16-B11	95.12838	SELENIUM	0.20	PPM	SOIL
16-B12	95.12839	SELENIUM	0.30	PPM	SOIL
16-B13	95.12840	SELENIUM	0.20	PPM	SOIL
16-B14	95.12841	SELENIUM	2.0	PPM	ASHES

LOCATION	SAMPLE NUMBER	ANALYSIS	RESULTS	UNITS	SAMPLED MEDIA
16-B1	95.12834	SILVER	<1.0	PPM	SOIL
16-B4	95.12835	SILVER	<1.0	PPM	SOIL
16-B9	95.12836	SILVER	<1.0	PPM	SOIL
16-B6	95.12837	SILVER	<1.0	PPM	SOIL
16-B11	95.12838	SILVER	<1.0	PPM	SOIL
16-B12	95.12839	SILVER	<1.0	PPM	SOIL
16-B13	95.12840	SILVER	<1.0	PPM	SOIL
* 16-B14	95.12841	SILVER	140.0	PPM	ASHES

LOCATION	SAMPLE NUMBER	ANALYSIS	RESULTS	UNITS	SAMPLED MEDIA
16-B1	95.12834	BARIUM	330	PPM	SOIL
* 16-B4	95.12835	BARIUM	9300	PPM	SOIL
16-B9	95.12836	BARIUM	260	PPM	SOIL
* 16-B6	95.12837	BARIUM	8900	PPM	SOIL
* 16-B11	95.12838	BARIUM	24000	PPM	SOIL
16-B12	95.12839	BARIUM	1800	PPM	SOIL
16-B13	95.12840	BARIUM	1700	PPM	SOIL
* 16-B14	95.12841	BARIUM	2200	PPM	ASHES

LOCATION	SAMPLE NUMBER	ANALYSIS	RESULTS	UNITS	SAMPLED MEDIA

METALS ?

16-B1	95.12834	BERYLLIUM	0.9	PPM	SOIL
16-B4	95.12835	BERYLLIUM	0.74	PPM	SOIL
16-B9	95.12836	BERYLLIUM	0.8	PPM	SOIL
16-B6	95.12837	BERYLLIUM	0.75	PPM	SOIL
16-B11	95.12838	BERYLLIUM	0.79	PPM	SOIL
16-B12	95.12839	BERYLLIUM	0.63	PPM	SOIL
16-B13	95.12840	BERYLLIUM	0.68	PPM	SOIL
16-B14	95.12841	BERYLLIUM	1.1	PPM	ASHES

LOCATION	SAMPLE NUMBER	ANALYSIS	RESULTS	UNITS	SAMPLED MEDIA
16-B1	95.12834	CADMIUM	<0.4	PPM	SOIL
16-B4	95.12835	CADMIUM	1.9	PPM	SOIL
16-B9	95.12836	CADMIUM	<0.4	PPM	SOIL
16-B6	95.12837	CADMIUM	1.3	PPM	SOIL
16-B11	95.12838	CADMIUM	0.4	PPM	SOIL
16-B12	95.12839	CADMIUM	<0.4	PPM	SOIL
16-B13	95.12840	CADMIUM	<0.4	PPM	SOIL
* 16-B14	95.12841	CADMIUM	160	PPM	ASHES

LOCATION	SAMPLE NUMBER	ANALYSIS	RESULTS	UNITS	SAMPLED MEDIA
16-B1	95.12834	CHROMIUM	4.2	PPM	SOIL
16-B4	95.12835	CHROMIUM	16	PPM	SOIL
16-B9	95.12836	CHROMIUM	4.2	PPM	SOIL
16-B6	95.12837	CHROMIUM	16	PPM	SOIL
16-B11	95.12838	CHROMIUM	6.1	PPM	SOIL
16-B12	95.12839	CHROMIUM	4.1	PPM	SOIL

16-B13	95.12840	CHROMIUM	6.3	PPM	SOIL
* 16-B14	95.12841	CHROMIUM	650	PPM	ASHES

LOCATION	SAMPLE NUMBER	ANALYSIS	RESULTS	UNITS	SAMPLED MEDIA
16-B1	95.12834	LEAD	9.92	PPM	SOIL
16-B4	95.12835	LEAD	82.8	PPM	SOIL
16-B9	95.12836	LEAD	25.5	PPM	SOIL
16-B6	95.12837	LEAD	622	PPM	SOIL
16-B11	95.12838	LEAD	17.2	PPM	SOIL
16-B12	95.12839	LEAD	11.0	PPM	SOIL
16-B13	95.12840	LEAD	5.95	PPM	SOIL
* 16-B14	95.12841	LEAD	8230	PPM	ASHES

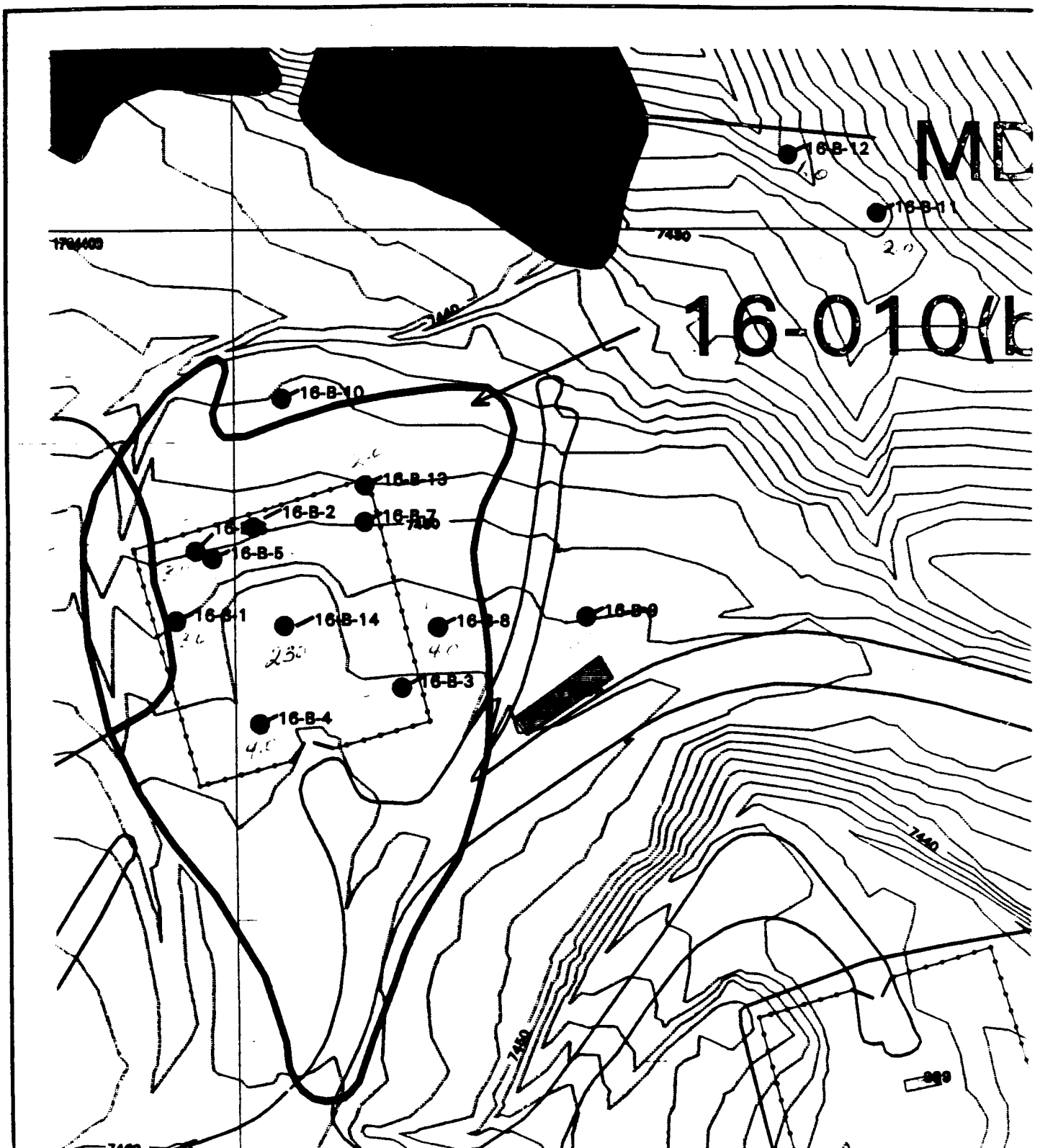
LOCATION	SAMPLE NUMBER	ANALYSIS	RESULTS	UNITS	SAMPLED MEDIA
16-B1	95.12834	THALLIUM	0.37	PPM	SOIL
16-B4	95.12835	THALLIUM	0.62	PPM	SOIL
16-B9	95.12836	THALLIUM	0.75	PPM	SOIL
16-B6	95.12837	THALLIUM	0.38	PPM	SOIL
16-B11	95.12838	THALLIUM	0.25	PPM	SOIL
16-B12	95.12839	THALLIUM	<0.25	PPM	SOIL
16-B13	95.12840	THALLIUM	<0.25	PPM	SOIL
16-B14	95.12841	THALLIUM	<1.24 (?)	PPM	ASHES

LOCATION	SAMPLE NUMBER	ANALYSIS	RESULTS	UNITS	SAMPLED MEDIA
16-B1	95.12834	ANTIMONY	<0.25	PPM	SOIL
16-B4	95.12835	ANTIMONY	<0.25	PPM	SOIL

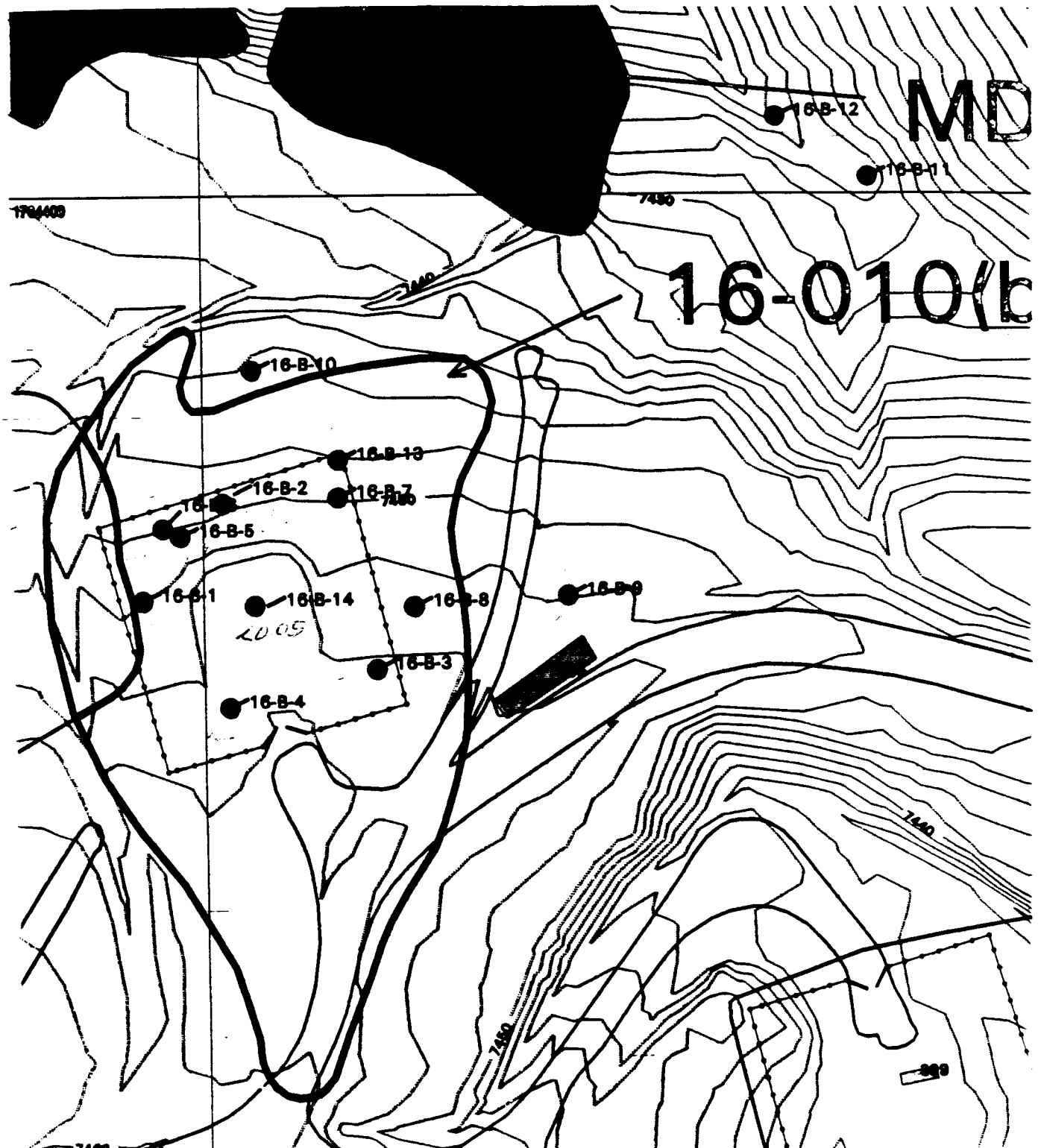
16-B9	95.12836	ANTIMONY	<0.25	PPM	SOIL
16-B6	95.12837	ANTIMONY	<0.25	PPM	SOIL
16-B11	95.12838	ANTIMONY	<0.25	PPM	SOIL
16-B12	95.12839	ANTIMONY	<0.25	PPM	SOIL
16-B13	95.12840	ANTIMONY	<0.25	PPM	SOIL
16-B14	95.12841	ANTIMONY	11.4	PPM	ASHES

LOCATION	SAMPLE NUMBER	ANALYSIS	RESULTS	UNITS	SAMPLED MEDIA
16-B1	95.12834	URANIUM	1.36	PPM	SOIL
16-B4	95.12835	URANIUM		PPM	SOIL
16-B9	95.12836	URANIUM	0.63	PPM	SOIL
16-B6	95.12837	URANIUM		PPM	SOIL
16-B11	95.12838	URANIUM	0.62	PPM	SOIL
16-B12	95.12839	URANIUM	0.25	PPM	SOIL
16-B13	95.12840	URANIUM		PPM	SOIL
16-B14	95.12841	URANIUM	1.61	PPM	ASHES

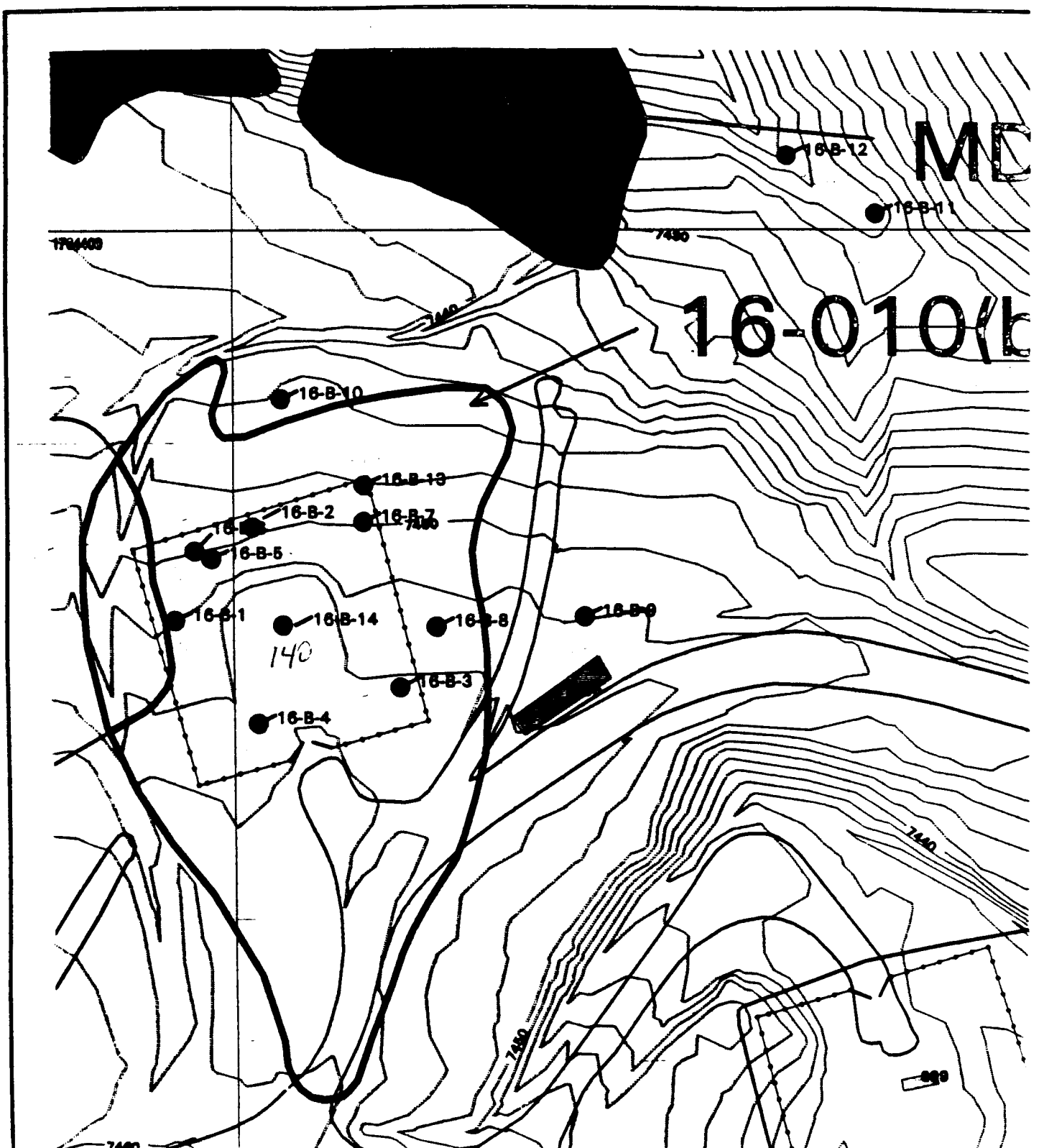
ARSENIC CONCENTRATIONS

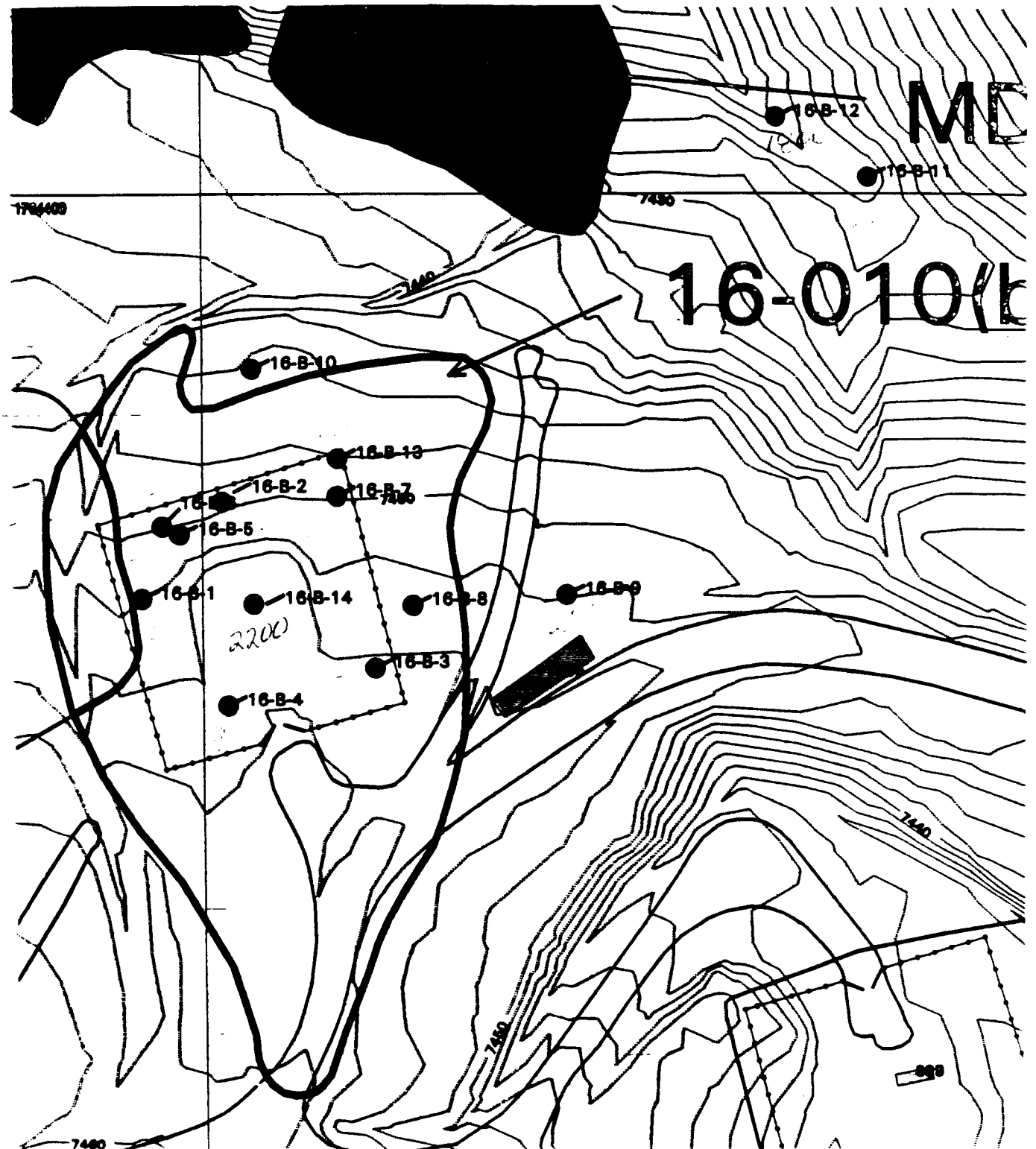


MERCURY CONCENTRATIONS.



SILVER CONCENTRATION




16-B-12
16-B-11
7450
16-010(b
16-B-10
16-B-13
16-B-2
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7440
16-B-5
16-B-1
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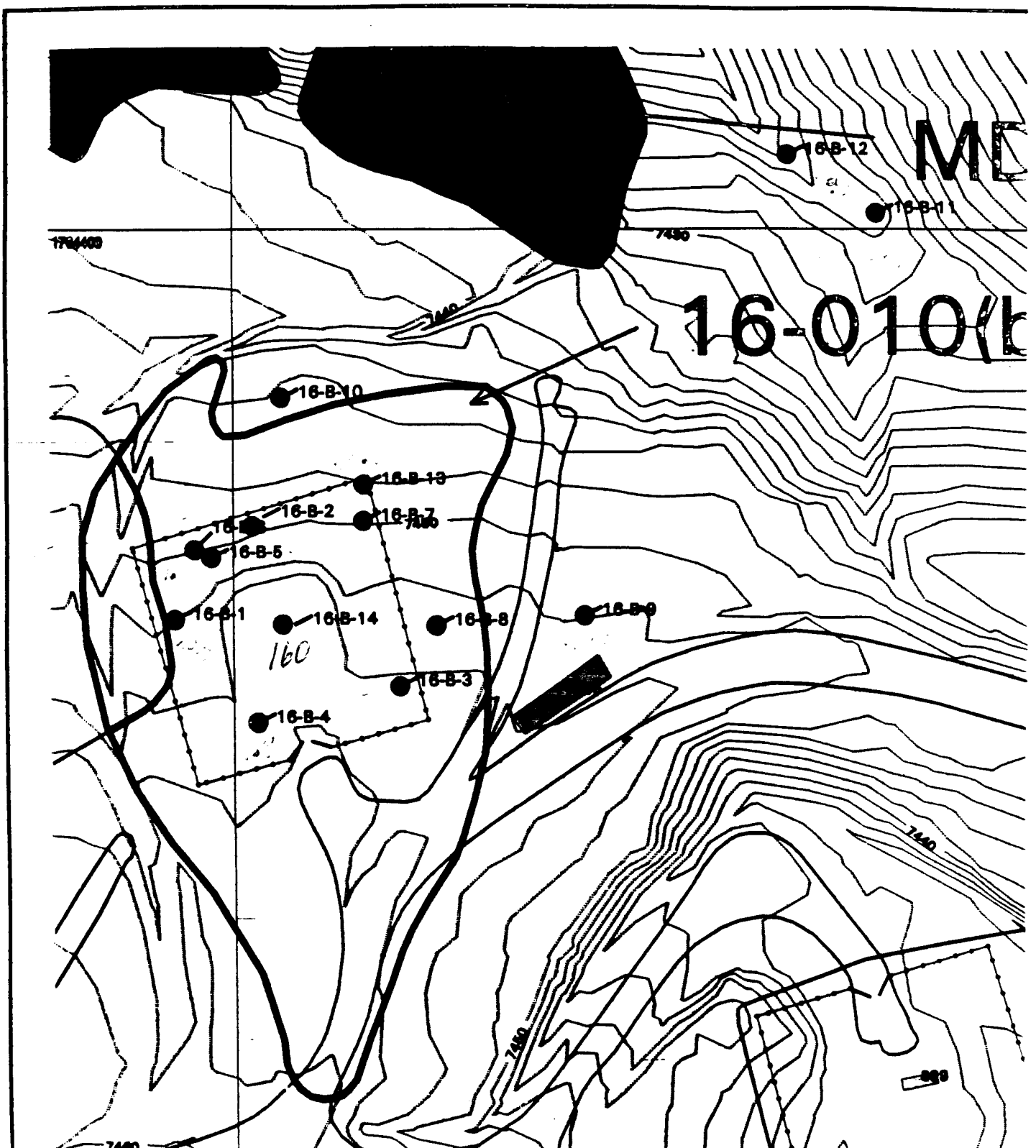
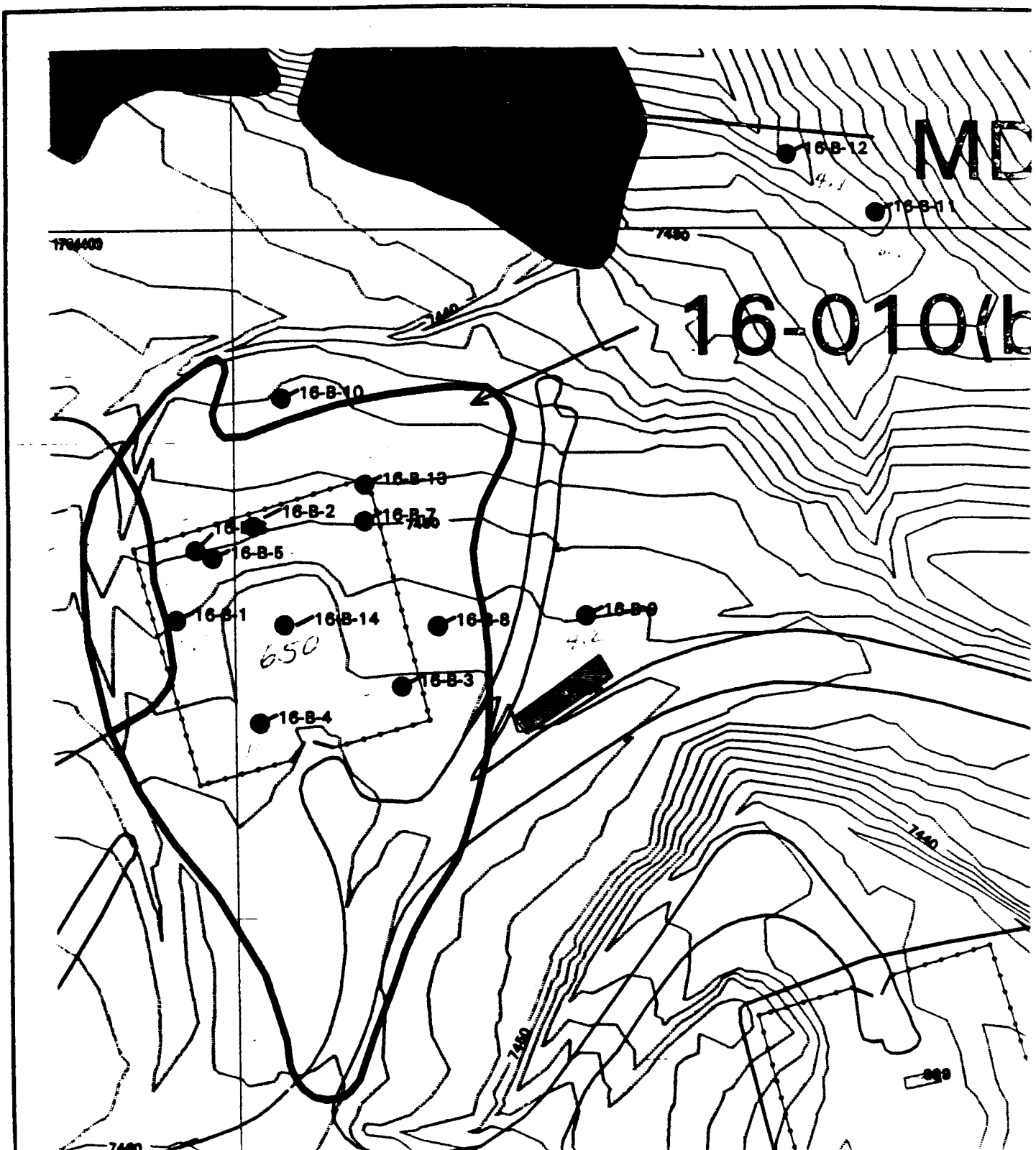
7460
7440

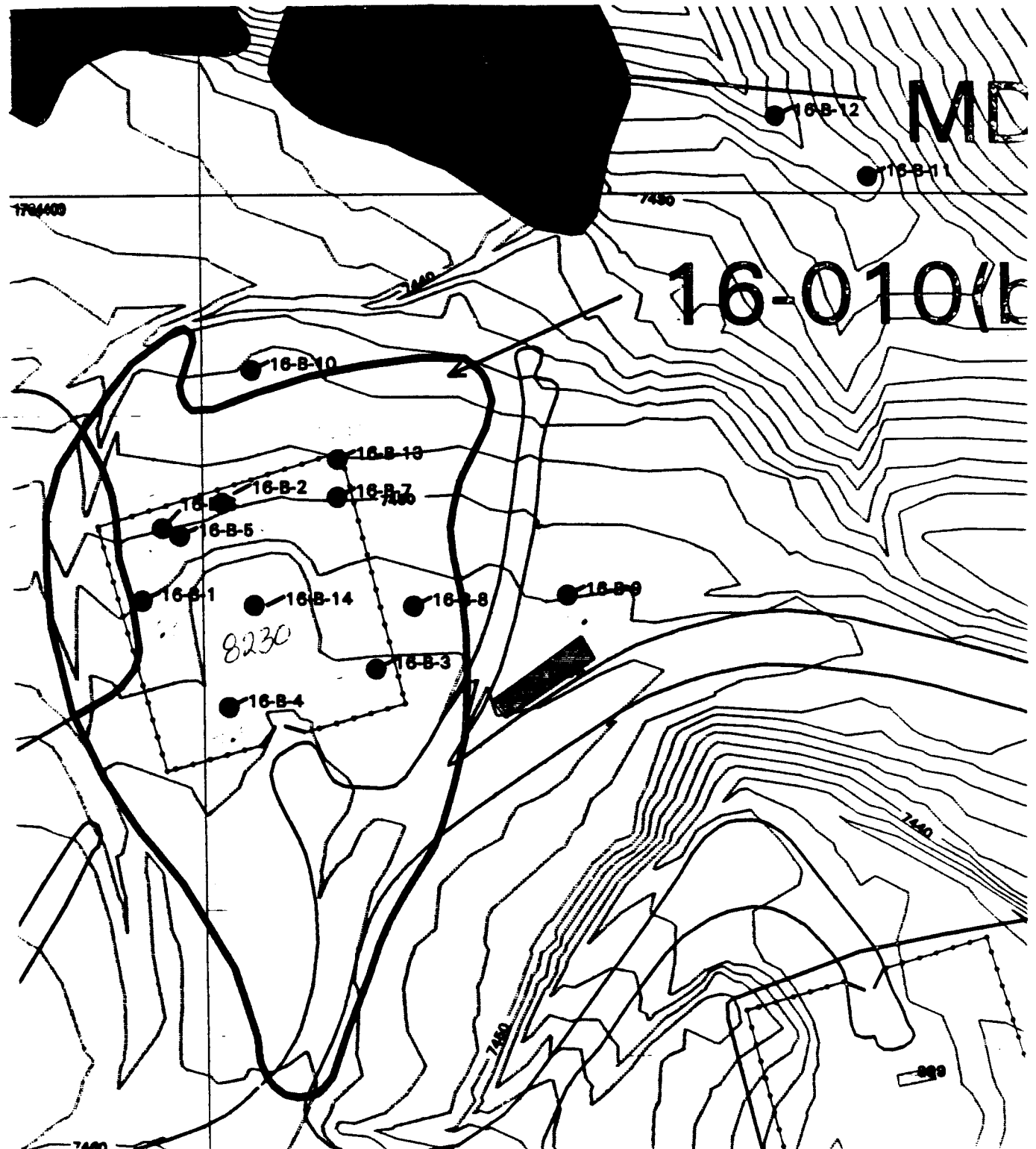
CADMIUM CONCENTRATIONS

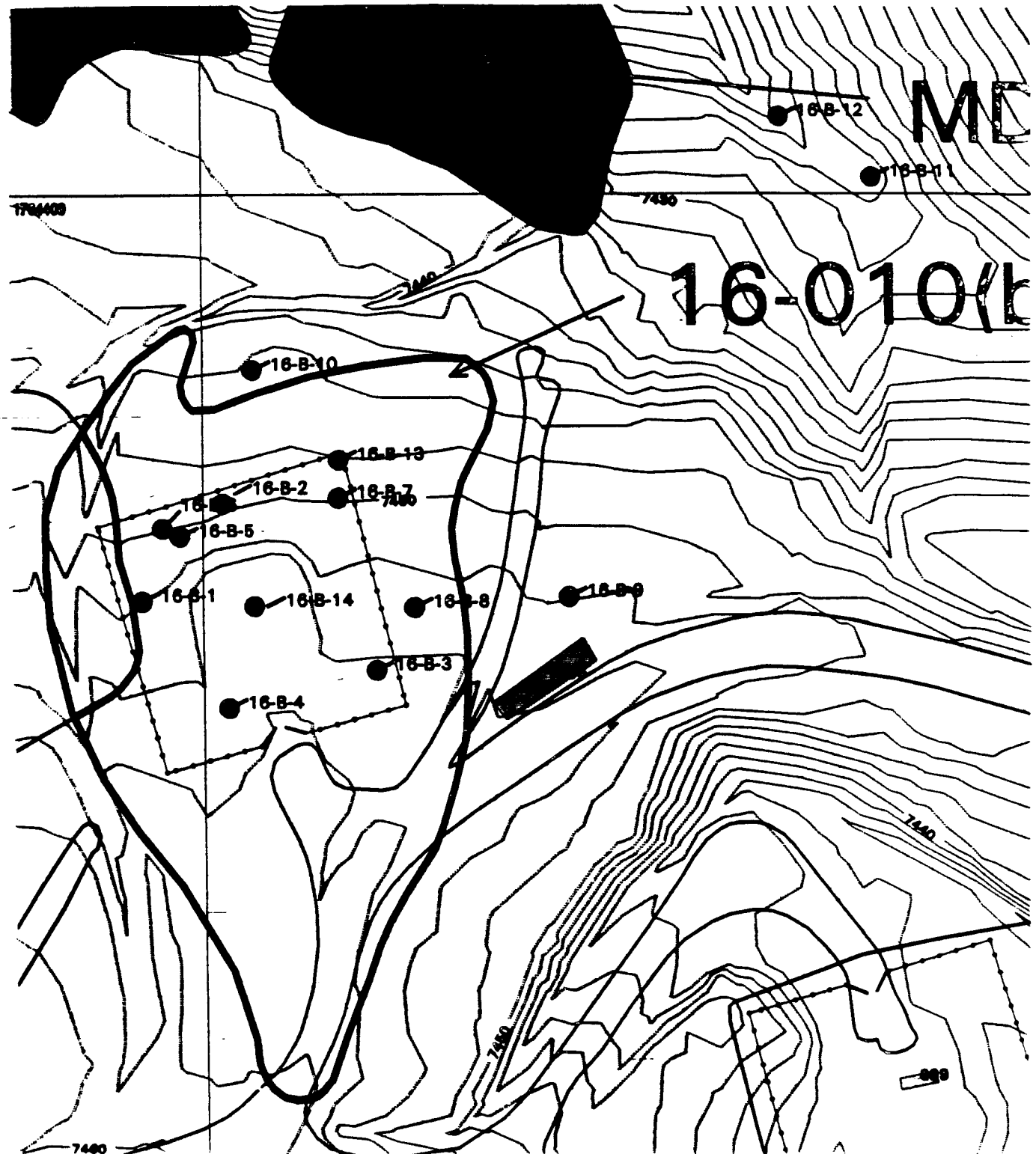


CHROMIUM CONCENTRATIONS.



LEAD CONCENTRATIONS.




16-B-12
16-B-11
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16-B-7
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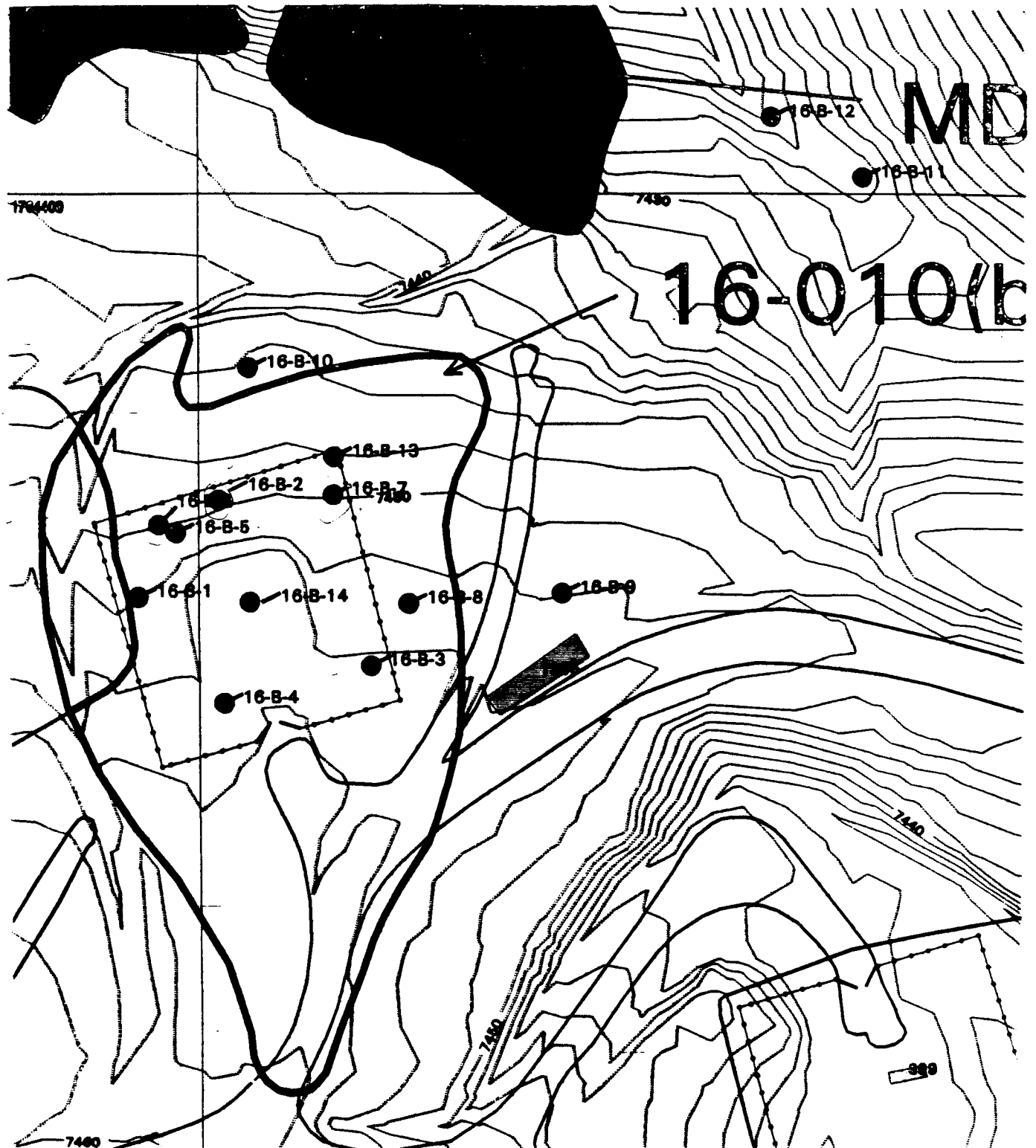
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16-010(b
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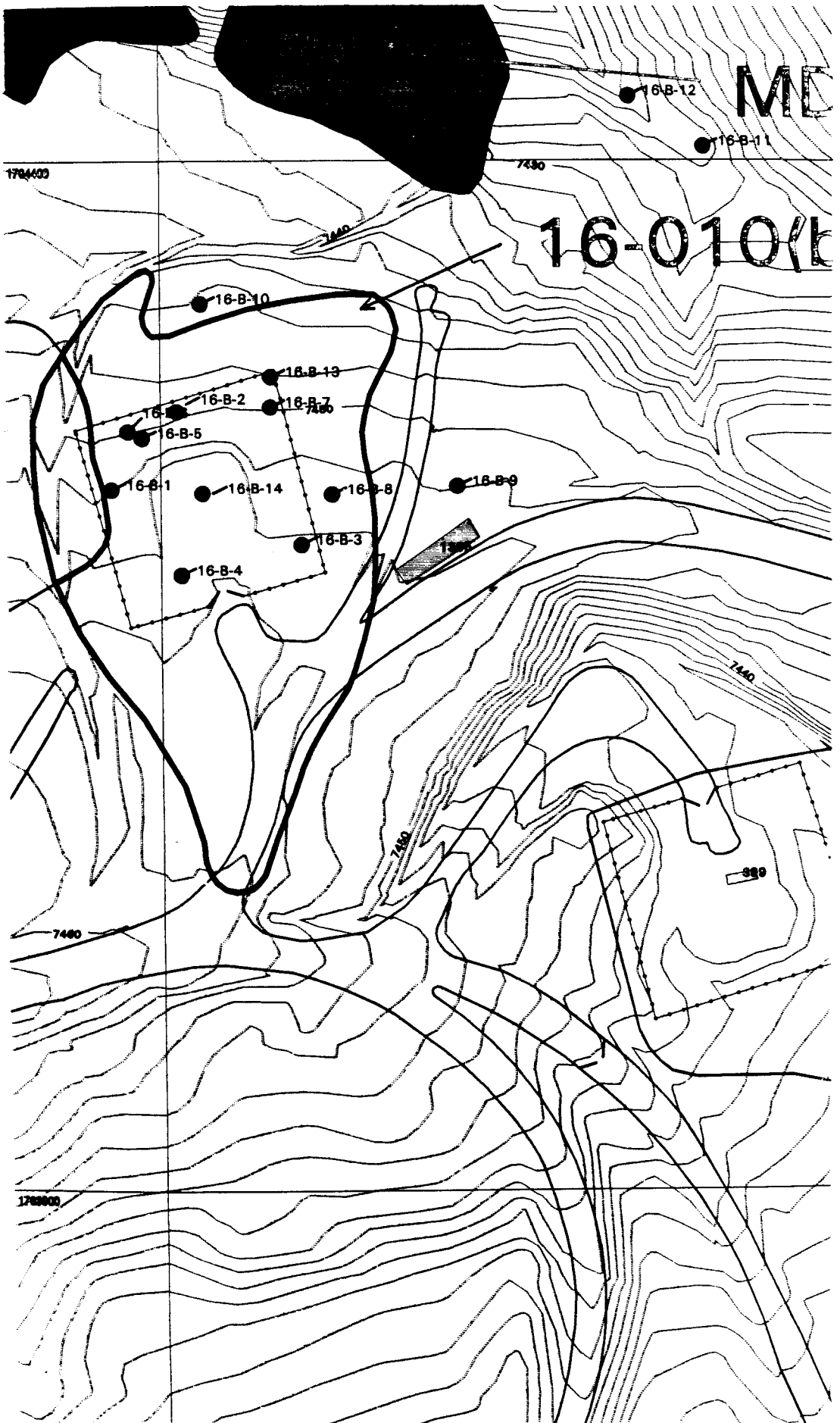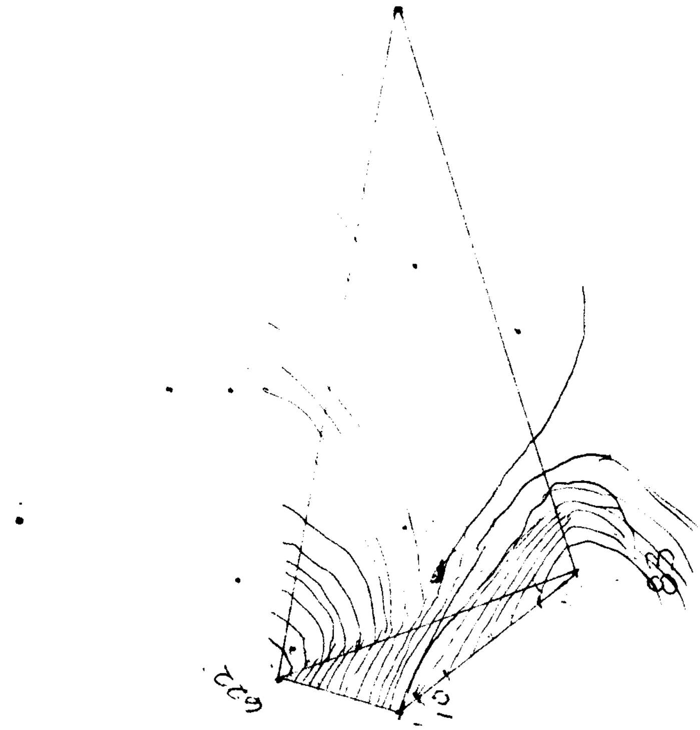
16-B-12
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