Los Alamos
NATIONAL LABORATORY

Hazardous & Solid Waste Group
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

Date: November 20, 1996
In Reply Refer To: ESH-19:96-0407
Mail Stop: K490
Telephone: (505) 667-0633

LIBRARY COPY

H. L. "Jody" Plum
Department of Energy
Albuquerque Field Office
Los Alamos Area Office, MS A316
Los Alamos, New Mexico 87544

Dear Mr. Plum:

SUBJECT: TA-53 SOUTH IMPOUNDMENT WITHDRAWAL LETTER

The purpose of this letter is to transmit the data packages requested by the state at our last meeting on November 14, 1996. It also has a draft letter attached to transmit the data to the New Mexico Environment Department (NMED). The language of the draft letter reflects the discussion with our state counterparts and requests they remove the South Impoundment at TA-53 from the laboratory's list of regulated units.

I have not included the radiological analytical data purposefully. If you think it should be included please call me and let me know. Additionally, in the draft I have offered to have Alice Barr go and work with NMED on the review of this data. There is a lot of QA/QC information that is confusing and Alice is the only one with an intimate understanding of it.

If you should have any questions concerning this information please call me at 667-0633.

Sincerely,

Jack Ellvinger
Hazardous & Solid Waste Group

JEE:le

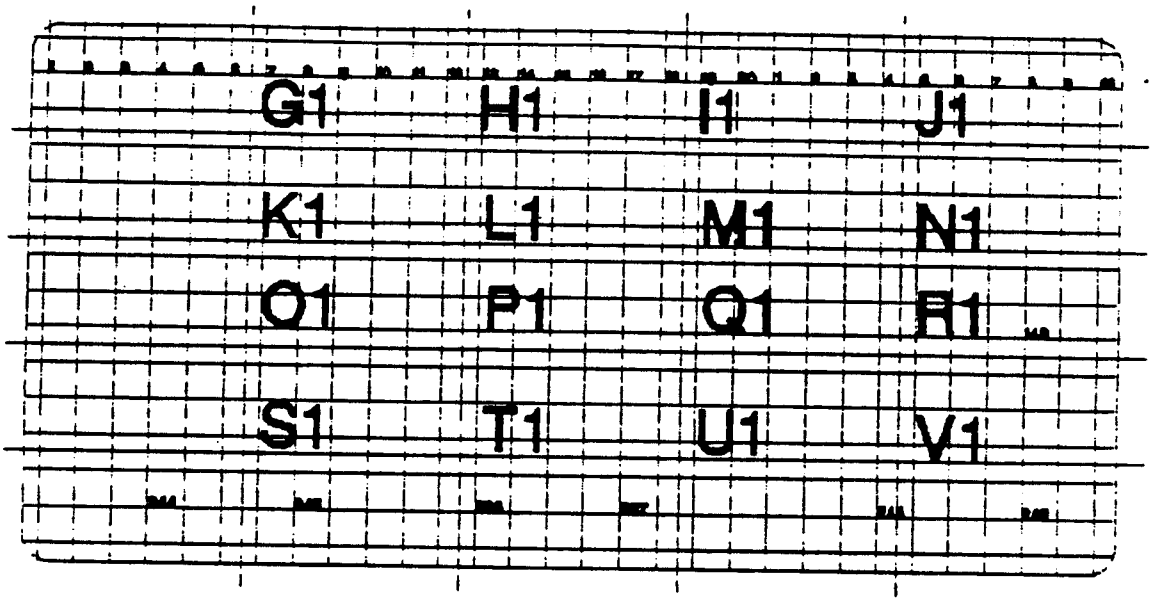
Enc.

Cy: David McInroy, EM/ER, MS M992
Richard Ryder, AOT-TA-53 FM, MS H814
CIC-10, MS A150
ESH-19 Circ File

4328

TA-53

SC LAGOON



LAGOON DIMENSIONS: 305 FT X 148 FT

PROJECT: TA-53 LAGOON SAMPLING	
LOCATION: TA-53	PROJECT LEADER: ALICE BARR
DATE LAYOUT BY: BILL KOPP	CHECKED BY: PHIL FRESQUEZ
DATE: APRIL 7, 1992	

CHAIN OF CUSTODY RECORD

Los Alamos, NM 87545

PROJECT NAME TA-53 Lagoon Sampling South "Rad Lagoon Sludge

SAMPLERS (Signature) P. Fresquez, R. Romero

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	Total Metals	VOA Total List	BNA Plus Total List	Gross α & β			LABEL NO.	REMARKS
	4/15/92	9:00		✓	PF-53-SC-G1-Sludge	04	✓	✓	✓				Castade 4608	Prog.cade W21G
		9:40		✓	PF-53-SC-H1-Sludge QC	04	✓	✓	✓					
		9:45		✓	PF-53-SC-H1-Sludge	04	✓	✓	✓					
		10:35		✓	PF-53-SC-I1-Sludge		✓	✓	✓					
		10:45		✓	PF-53-SC-J1-Sludge		✓	✓	✓					
		9:10		✓	PF-53-SC-K1-Sludge	04	✓	✓	✓					
		9:55		✓	PF-53-SC-L1-Sludge	05	✓	✓	✓	✓				
		10:30		✓	PF-53-SC-M1-Sludge		✓	✓	✓					Rad
		10:50		✓	PF-53-SC-N1-Sludge		✓	✓	✓					
		9:20		✓	PF-53-SC-O1-S	04	✓	✓	✓					
		10:00		✓	PF-53-SC-P1-S	04	✓	✓	✓					
		10:20		✓	PF-53-SC-Q1-S		✓	✓	✓					
		11:00		✓	PF-53-SC-R1-S		✓	✓	✓					
		9:30		✓	PF-53-SC-S1-S	04	✓	✓	✓					
		10:10		✓	PF-53-SC-T1-S	04	✓	✓	✓					

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
R. Romero	4/15/92 13:10	[illegible]			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution Original Accompanies Shipment, Copy to Field Files

N 05842

...ens. (Signature) ...gion / WATER

P. Fresquez, R. Romero

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	Total Metals	VOA Total List	BNA Total List PCB	Tritium	Gross α, β, γ	LABEL NO.	REMARKS
	4/15/92	9:00		✓	PF-53-SC-G1-Water	06	✓	✓	✓	✓			Cost / Prog
		9:15		✓	PF-53-SC-G1-Water QC	04	✓	✓	✓	✓	✓		4608 / W216
		8:30		✓	PF-53-NW-Water	01				✓			
		8:40		✓	PF-53-NE-Water	01				✓			
		8:47		✓	PF-53-SC-Trip Blank Water	01				✓			
		8:55		✓	PF-53-SC-Field Blank Water	02		✓					
					PF-53-SC-Equipment Blank Water	03		✓					

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
R. Romero	4/15/92	R. Romero			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Field Files

N 05843

LAGOON

Los Alamos, NM 87545

SAMPLERS (Signature)

Romero, Fresquez

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	Total Metals	VOA Total Metals	BNA/PCB Totals				LABEL NO.	REMARKS
	04/15/92	13:45		✓	PF-53-SC Conf. Bin (CB)	04							4608/W21G	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
R Romero	04/15/92 14:15	[illegible]			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution Original Accompanies Shipment, Copy to Field Files

N 05843

CHAIN OF CUSTODY RECORD

Los Alamos, NM 87545

TA-53 Lagoon Sampling
South "Rad" Lagoon SLUDGE

SAMPLERS (Signature): P. Fresquez . R. Romero

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	Total List	VOA Total List	BWH, PCB, Total List	Gross α, β, γ			LABEL NO.	REMARKS
	4/15/92	10:15		✓	PF-53-SC-U1-Sludge									Cost / Prog. 4608 / W216
no sample				✓	~~PF-53-SC-U1-Sludge~~									
	4/15/92	9:00		✓	PF-53-NW-Conc. Bias (CB)	04	✓	✓	✓	✓				— cm
	4/15/92	9:50		✓	PF-53-NW-Outlet	01				✓				
	4/15/92	9:55		✓	PF-53-NE-Outlet	01				✓				Rad/Lagoon Outlet + Lagoon Outlet

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
R. Romero	04/15/92 1810	[illegible]			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Field Files

N 05812

********** EM-9 ANALYTICAL REPORT **********

Prepared by: ESG on 6-May-1992

ANALYSIS: FLASHPT REQUEST NUMBER: 12630 MATRIX: C ANALYST: 203 PROGRAM CODE: W21D

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815

ANALYTICAL TECHNIQUE: FP ANALYTICAL PROCEDURE: EPA 1010 NOTEBOOK: PAGE:

CUSTOMER SAMPLES:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PF-NE-IT-1S	92.03089	> 37.5		DEG. C	4/24/92	
PF-NW-IT-1S	92.03090	> 38.		DEG. C	4/24/92	
PF-RAD-IT-1S	92.03091	> 41.5		DEG. C	4/24/92	

CUSTOMER SAMPLE DUPLICATES:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PF-NE-IT-1S	92.03089	> 43.		DEG. C	4/24/92	

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

Prepared by: ESG on 6-May-1992

REQUEST NUMBER: 12630 MATRIX: C ANALYST: 203 PROGRAM CODE: W21D

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC 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 sample batch.

___ No QC samples run with this sample batch.

___ No QC samples for this constituent and matrix type available within EM-9

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.

X No QC samples run with this sample batch.

___ No QC samples for this constituent and matrix type available within EM-9

REPORT NUMBER: 13891

Commercial Firm
Analyst

Section Leader

ESG
QA Officer

Signatures on File
Date

Date

5/6/92
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: 1986,' LA-11114-MS, pp. 3-4.

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********** EM-9 ANALYTICAL REPORT **********

Prepared by: ESG on 6-May-1992

ANALYSIS: SULFIDE REQUEST NUMBER: 12630 MATRIX: C ANALYST: 203 PROGRAM CODE: W21D

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815

ANALYTICAL TECHNIQUE: TITR ANALYTICAL PROCEDURE: EPA 376.1 NOTEBOOK: PAGE:

CUSTOMER SAMPLES:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PF-NE-IT-1S	92.03089	38.2	9.6	UG/G	4/24/92	
PF-NW-IT-1S	92.03090	112.	28.	UG/G	4/24/92	
PF-RAD-IT-1S	92.03091	20.9	5.2	UG/G	4/24/92	

CUSTOMER SAMPLE DUPLICATES:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PF-NE-IT-1S	92.03089	41.2	10.3	UG/G	4/24/92	

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER SAMPLE MATRIX SPIKES :

CUSTOMER NUMBER	SAMPLE NUMBER	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT
PF-NE-IT-1S	92.03089	174.	149.	UG/G	4/24/92	

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

Prepared by: ESG on 6-May-1992

REQUEST NUMBER: 12630 MATRIX: C ANALYST: 203 PROGRAM CODE: W21D

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC 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 sample batch.

____ No QC samples run with this sample batch.

____ No QC samples for this constituent and matrix type available within EM-9

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

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

CUSTOMER NUM	SAMPLE NUM	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
00.24618	92.03094	57.5	14.4	UG/G	4/24/92	NO DATA AVAIL.

REPORT NUMBER: 13895

Commercial Firm — Analyst

Section Leader

ESB — QA Officer

Signatures on File — Date

Date

5/6/92 — 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: 1986,' LA-11114-MS, pp. 3-4.

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********** EM-9 ANALYTICAL REPORT **********

Prepared by: ESG on 6-May-1992

ANALYSIS: CN REQUEST NUMBER: 12630 MATRIX: C ANALYST: 203 PROGRAM CODE: W21D

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815

ANALYTICAL TECHNIQUE: ACOLR ANALYTICAL PROCEDURE: EPA 335.2 NOTEBOOK: PAGE:

CUSTOMER SAMPLES:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PF-NE-IT-1S	92.03089	< 0.78		UG/G	4/24/92	
PF-NW-IT-1S	92.03090	< 0.87		UG/G	4/24/92	
PF-RAD-IT-1S	92.03091	< 0.62		UG/G	4/24/92	

CUSTOMER SAMPLE DUPLICATES:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PF-NE-IT-1S	92.03089	< 0.78		UG/G	4/24/92	

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER SAMPLE MATRIX SPIKES :

CUSTOMER NUMBER	SAMPLE NUMBER	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT
PF-NE-IT-1S	92.03089	15.5	14.3	UG/G	4/24/92	

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

Prepared by: ESG on 6-May-1992

REQUEST NUMBER: 12630 MATRIX: C ANALYST: 203 PROGRAM CODE: W21D

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC 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

X Only 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 EM-9

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

SAMPLE NUM	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT
92.03094	1.48	0.7	UG/G	5.	0.5	4/24/92	OUT OF CONTROL

REPORT NUMBER: 13896

Commercial Firm — Analyst

Section Leader

ESG — QA Officer

Signatures on File — Date

Date

~~5/6/91~~ ESG — Date

5/6/92

No Sample Discrepancies Noted by Sample Management Section

* control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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********** EM-9 ANALYTICAL REPORT **********

Prepared by: ESG on 6-May-1992

ANALYSIS: PH REQUEST NUMBER: 12628 MATRIX: WW ANALYST: 203 PROGRAM CODE: W21D

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815

ANALYTICAL TECHNIQUE: GE ANALYTICAL PROCEDURE: EPA 9040 NOTEBOOK: PAGE:

CUSTOMER SAMPLES:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PF-NE-IT-1W	92.03083	8.99	0.1	UNITS	4/24/92	
PF-NW-IT-1W	92.03084	7.62	0.1	UNITS	4/24/92	
PF-RAD-IT-1W	92.03085	9.88	0.1	UNITS	4/24/92	

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

Prepared by: ESG on 6-May-1992

REQUEST NUMBER: 12628 MATRIX: WW ANALYST: 203 PROGRAM CODE: W21D

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC 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 sample batch.

X No QC samples run with this sample batch.

___ No QC samples for this constituent and matrix type available within EM-9

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

REPORT NUMBER: 13894

Analyst	Section Leader	QA Officer
Commercial Firm		ESG
Date	Date	Date
Signatures on File		5/6/92

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: 1986,' LA-11114-MS, pp. 3-4.

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********** EM-9 ANALYTICAL REPORT **********

Prepared by: ESG on 6-May-1992

ANALYSIS: PH REQUEST NUMBER: 12630 MATRIX: S ANALYST: 203 PROGRAM CODE: W21D

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815

ANALYTICAL TECHNIQUE: GE ANALYTICAL PROCEDURE: EPA 9045 NOTEBOOK: PAGE:

CUSTOMER SAMPLES:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PF-NE-IT-1S	92.03089	7.98	0.1	UNITS	4/24/92	
PF-NW-IT-1S	92.03090	7.49	0.1	UNITS	4/24/92	
PF-RAD-IT-1S	92.03091	8.	0.1	UNITS	4/24/92	

CUSTOMER SAMPLE DUPLICATES:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PF-NE-IT-1S	92.03089	7.94	0.1	UNITS	4/24/92	

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

Prepared by: ESG on 6-May-1992

REQUEST NUMBER: 12630 MATRIX: S ANALYST: 203 PROGRAM CODE: W21D

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC 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 sample batch.

___ No QC samples run with this sample batch.

X No QC samples for this constituent and matrix type available within EM-9

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.

X No QC samples for this constituent and matrix type available within EM-9

REPORT NUMBER: 13892

Analyst	Section Leader	QA Officer
Commercial Firm		
Date	Date	Date
Signatures on File		5/6/92

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: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 17394

********** EM-9 ANALYTICAL REPORT **********

Prepared by: ES on 25-Feb-1993

REQUEST NUMBER: 12630 MATRIX: S ANALYST: 203 PROGRAM CODE: W21D

OWNER: Philip R. Fresquez GROUP: EM-8 MAIL-STOP: K490 PHONE: 7-0815

ANALYTICAL TECHNIQUE: GE ANALYTICAL PROCEDURE: EPA 9045 NOTEBOOK: PAGE:

CUSTOMER SAMPLES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PF-NE-IT-1S	92.03089	PH	7.89	0.1	UNITS	4/24/92	
PF-NW-IT-1S	92.03090	PH	7.49	0.1	UNITS	4/24/92	
PF-RAD-IT-1S	92.03091	PH	8.	0.1	UNITS	4/24/92	

CUSTOMER SAMPLE DUPLICATES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
PF-NE-IT-1S	92.03089	PH	7.94	0.1	UNITS	4/24/92	

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REPORT NUMBER: 17394 (continued)

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

Prepared by: ES on 25-Feb-1993

REQUEST NUMBER: 12630 MATRIX: S ANALYST: 203 PROGRAM CODE: W21D

OWNER: Philip R. Fresquez GROUP: EM-8 MAIL-STOP: K490 PHONE: 7-0815

NOTEBOOK: PAGE:

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC 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 sample batch.

____ No QC samples run with this sample batch.

____ No QC samples for this constituent and matrix type available within EM-9

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 EM-9

REPORT NUMBER: 17394

_____	_____	_____	mag
Analyst	Reviewer	Section Leader	QA Officer
_____	_____	_____	2/25/93
Date	Date	Date	Date

No Sample Discrepancies Noted by Sample Management Section

e control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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********** EM-9 ANALYTICAL REPORT **********

EPA HERBICIDES Prepared by: ESG on 3-Jun-1992

REQUEST NUMBER: 12627 MATRIX: WW ANALYST: 203 PROGRAM CODE: W21D NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCEC ANALYTICAL PROCEDURE:

Customer Sample Results, Sample # 92.03085 Date Collected: 3/17/92 Date Received: 3/17/92 Date Extracted: 3/20/92 Date Analyzed: 3/26/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PF-RAD-IT-1W	92.03085	94757	< 1.3		UG/L	5/13/92		2,4-D
PF-RAD-IT-1W	92.03085	93765	< 0.21		UG/L	5/13/92		2,4,5-T
PF-RAD-IT-1W	92.03085	93721	< 0.18		UG/L	5/13/92		2,4,5-TP

Tentatively Identified Compounds in Customer Sample # 92.03085

none

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

EPA HERBICIDES Prepared by: ESG on 3-Jun-1992

REQUEST NUMBER: 12627 MATRIX: WW ANALYST: 203 PROGRAM CODE: W21D NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCEC 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 EM-9

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

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

Blank Results, Sample # 00.20226 Date Collected: 3/17/92 Date Received: 3/17/92 Date Extracted: 3/20/92 Date Analyzed: 3/26/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20226	00.20226	94757	< 1.2		UG/L	0.0		5/15/92	UNDER CONTROL	2,4-D
00.20226	00.20226	93765	< 0.2		UG/L	0.0		5/15/92	UNDER CONTROL	2,4,5-T
00.20226	00.20226	93721	< 0.17		UG/L	0.0		5/15/92	UNDER CONTROL	2,4,5-TP

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 # 92.03087 Date Collected: 3/17/92 Date Received: 3/17/92 Date Extracted: 3/20/92 Date Analyzed: 3/26/92

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
92.03087	94757	< 2.5		UG/L	1.21	0.12	5/13/92	UNDER CONTROL	2,4-D
92.03087	93765	0.46	0.1	UG/L	0.45	0.04	5/13/92	UNDER CONTROL	2,4,5-T
92.03087	93721	0.43	0.12	UG/L	0.38	0.04	5/13/92	UNDER CONTROL	2,4,5-TP

REPORT NUMBER: 14150

Analyst	Reviewer	Section Leader	QA Officer
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: 1986,' LA-11114-MS, pp. 3-4.

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********** EM-9 ANALYTICAL REPORT **********

EPA HERBICIDES Prepared by: EAJ on 25-Jun-1992

REQUEST NUMBER: 12629 MATRIX: S ANALYST: 203 PROGRAM CODE: W21D NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCEC ANALYTICAL PROCEDURE:

Customer Sample Results, Sample # 92.03091 Date Collected: 3/17/92 Date Received: 3/17/92 Date Extracted: 3/23/92 Date Analyzed: 3/26/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PF-RAD-IT-1S	92.03091	94757	< 31.		UG/KG	3/26/92		2,4-D
PF-RAD-IT-1S	92.03091	93765	< 5.2		UG/KG	3/26/92		2,4,5-T
PF-RAD-IT-1S	92.03091	93721	< 4.4		UG/KG	3/26/92		2,4,5-TP

Tentatively Identified Compounds in Customer Sample # 92.03091

none

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

EPA HERBICIDES Prepared by: EAJ on 25-Jun-1992

REQUEST NUMBER: 12629 MATRIX: S ANALYST: 203 PROGRAM CODE: W21D NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCEC 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 EM-9

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

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

Blank Results, Sample # 00.24611 Date Collected: 3/17/92 Date Received: 3/17/92 Date Extracted: 3/23/92 Date Analyzed: 3/26/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.24611	00.24611	94757	< 24.		UG/KG	0.0		3/26/92	UNDER CONTROL	2,4-D
00.24611	00.24611	93765	< 4.		UG/KG	0.0		3/26/92	UNDER CONTROL	2,4,5-T
00.24611	00.24611	93721	< 3.4		UG/KG	0.0		3/26/92	UNDER CONTROL	2,4,5-TP

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

Blank Spike Results, Sample # 00.24611 Date Collected: 3/17/92 Date Received: 3/17/92 Date Extracted: 3/23/92 Date Analyzed: 3/26/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.24611	00.24611	94757	500.	440.	UG/KG	0.0		3/26/92		2,4-D
00.24611	00.24611	93765	250.	180.	UG/KG	0.0		3/26/92		2,4,5-T
00.24611	00.24611	93765	250.	200.	UG/KG	0.0		3/26/92		2,4,5-T

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

Blank Spike Duplicate Results, Sample # 00.24611 Date Collected: 3/17/92 Date Received: 3/17/92 Date Extracted: 3/23/92 Date Analyzed: 3/26/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.24611	00.24611	94757	500.	480.	UG/KG	0.0		3/26/92		2,4-D
00.24611	00.24611	93721	250.	200.	UG/KG	0.0		3/26/92		2,4,5-TP
00.24611	00.24611	93721	250.	210.	UG/KG	0.0		3/26/92		2,4,5-TP

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

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

Blind QC Results, Sample # 92.03093 Date Collected: 3/17/92 Date Received: 3/17/92 Date Extracted: Date Analyzed:

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
92.03093	94757	< 0.34		UG/G	0.43	0.04	3/26/92	UNDER CONTROL	2,4-D
92.03093	93765	< 0.12		UG/G	0.16	0.01	3/26/92	UNDER CONTROL	2,4,5-T
92.03093	93721	< 0.1		UG/G	0.13	0.01	3/26/92	UNDER CONTROL	2,4,5-TP

REPORT NUMBER: 14340

Analyst	Reviewer	Section Leader	QA Officer
	L. Bigelow		mag
Date	7/1/92 Date	Date	7-1-92 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: 1986,' LA-11114-MS, pp. 3-4.

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********** EM-9 ANALYTICAL REPORT **********

EPA PESTICIDES Prepared by: DMH on 29-Jun-1992

REQUEST NUMBER: 12627 MATRIX: WW ANALYST: 203 PROGRAM CODE: W21D NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCEC ANALYTICAL PROCEDURE: DIANNE

Customer Sample Results, Sample # 92.03085 Date Collected: 3/17/92 Date Received: 3/17/92 Date Extracted: 3/20/92 Date Analyzed: 4/01/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PF-RAD-IT-1W	92.03085	309002	< 0.04		UG/L	4/03/92		Aldrin
PF-RAD-IT-1W	92.03085	319846	< 0.03		UG/L	4/03/92		alpha-BHC
PF-RAD-IT-1W	92.03085	319857	< 0.06		UG/L	4/03/92		beta-BHC
PF-RAD-IT-1W	92.03085	319868	< 0.09		UG/L	4/03/92		delta-BHC
PF-RAD-IT-1W	92.03085	57749	< 0.14		UG/L	4/03/92		Chlordane
PF-RAD-IT-1W	92.03085	72548	< 0.11		UG/L	4/03/92		p,p'-DDD
PF-RAD-IT-1W	92.03085	72559	< 0.04		UG/L	4/03/92		p,p'-DDE
PF-RAD-IT-1W	92.03085	50293	< 0.12		UG/L	4/03/92		p,p'-DDT
PF-RAD-IT-1W	92.03085	60571	< 0.02		UG/L	4/03/92		Dieldrin
PF-RAD-IT-1W	92.03085	959988	< 0.14		UG/L	4/03/92		Endosulfan I
PF-RAD-IT-1W	92.03085	33213659	< 0.04		UG/L	4/03/92		Endosulfan II
PF-RAD-IT-1W	92.03085	1031078	< 0.66		UG/L	4/03/92		Endosulfan sulfate
PF-RAD-IT-1W	92.03085	72208	< 0.06		UG/L	4/03/92		Endrin
PF-RAD-IT-1W	92.03085	7421934	< 0.23		UG/L	4/03/92		Endrin aldehyde
PF-RAD-IT-1W	92.03085	76448	< 0.03		UG/L	4/03/92		Heptachlor
PF-RAD-IT-1W	92.03085	1024573	< 0.83		UG/L	4/03/92		Heptachlor epoxide
PF-RAD-IT-1W	92.03085	58899	< 0.04		UG/L	4/03/92		Lindane
PF-RAD-IT-1W	92.03085	72435	< 1.8		UG/L	4/03/92		Methoxychlor
PF-RAD-IT-1W	92.03085	8001352	< 2.4		UG/L	4/03/92		Toxaphene

Tentatively Identified Compounds in Customer Sample # 92.03085

none

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

EPA PESTICIDES Prepared by: DMH on 29-Jun-1992

REQUEST NUMBER: 12627 MATRIX: WW ANALYST: 203 PROGRAM CODE: W21D NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCEC ANALYTICAL PROCEDURE: DIANNE

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 EM-9

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

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

Blank Results, Sample # 00.24612 Date Collected: 3/17/92 Date Received: 3/17/92 Date Extracted: 3/20/92 Date Analyzed: 4/01/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.24612	00.24612	309002	< 0.04		UG/L	0.0		4/03/92	UNDER CONTROL	Aldrin
00.24612	00.24612	319846	< 0.03		UG/L	0.0		4/03/92	UNDER CONTROL	alpha-BHC
00.24612	00.24612	319857	< 0.06		UG/L	0.0		4/03/92	UNDER CONTROL	beta-BHC
00.24612	00.24612	319868	< 0.09		UG/L	0.0		4/03/92	UNDER CONTROL	delta-BHC
00.24612	00.24612	57749	< 0.14		UG/L	0.0		4/03/92	UNDER CONTROL	Chlordane
00.24612	00.24612	72548	< 0.11		UG/L	0.0		4/03/92	UNDER CONTROL	p,p'-DDD
00.24612	00.24612	72559	< 0.04		UG/L	0.0		4/03/92	UNDER CONTROL	p,p'-DDE
00.24612	00.24612	50293	< 0.12		UG/L	0.0		4/03/92	UNDER CONTROL	p,p'-DDT
00.24612	00.24612	60571	< 0.02		UG/L	0.0		4/03/92	UNDER CONTROL	Dieldrin
00.24612	00.24612	959988	< 0.14		UG/L	0.0		4/03/92	UNDER CONTROL	Endosulfan I
00.24612	00.24612	33213659	< 0.04		UG/L	0.0		4/03/92	UNDER CONTROL	Endosulfan II
00.24612	00.24612	1031078	< 0.66		UG/L	0.0		4/03/92	UNDER CONTROL	Endosulfan sulfate
00.24612	00.24612	72208	< 0.06		UG/L	0.0		4/03/92	UNDER CONTROL	Endrin
00.24612	00.24612	7421934	< 0.23		UG/L	0.0		4/03/92	UNDER CONTROL	Endrin aldehyde
00.24612	00.24612	76448	< 0.03		UG/L	0.0		4/03/92	UNDER CONTROL	Heptachlor
00.24612	00.24612	1024573	< 0.83		UG/L	0.0		4/03/92	UNDER CONTROL	Heptachlor epoxide
00.24612	00.24612	58899	< 0.04		UG/L	0.0		4/03/92	UNDER CONTROL	Lindane
00.24612	00.24612	72435	< 1.8		UG/L	0.0		4/03/92	UNDER CONTROL	Methoxychlor
00.24612	00.24612	8001352	< 2.4		UG/L	0.0		4/03/92	UNDER CONTROL	Toxaphene

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

Blank Spike Results, Sample # 00.24612 Date Collected: 3/17/92 Date Received: 3/17/92 Date Extracted: 3/20/92 Date Analyzed: 4/01/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.24612	00.24612	309002	0.2	0.21	UG/L	0.0		4/03/92		Aldrin
00.24612	00.24612	319846	0.2	0.17	UG/L	0.0		4/03/92		alpha-BHC
00.24612	00.24612	319857	0.2	0.25	UG/L	0.0		4/03/92		beta-BHC
00.24612	00.24612	319868	0.2	0.26	UG/L	0.0		4/03/92		delta-BHC
00.24612	00.24612	72548	1.	1.2	UG/L	0.0		4/03/92		p,p'-DDD
00.24612	00.24612	72559	0.2	0.21	UG/L	0.0		4/03/92		p,p'-DDE
00.24612	00.24612	50293	1.	1.3	UG/L	0.0		4/03/92		p,p'-DDT
00.24612	00.24612	60571	0.2	0.25	UG/L	0.0		4/03/92		Dieldrin
00.24612	00.24612	959988	0.2	0.31	UG/L	0.0		4/03/92		Endosulfan I
00.24612	00.24612	33213659	1.	1.3	UG/L	0.0		4/03/92		Endosulfan II
00.24612	00.24612	1031078	1.	0.8	UG/L	0.0		4/03/92		Endosulfan sulfate
00.24612	00.24612	72208	0.2	0.17	UG/L	0.0		4/03/92		Endrin
00.24612	00.24612	7421934	0.5	0.57	UG/L	0.0		4/03/92		Endrin aldehyde
00.24612	00.24612	76448	0.2	0.24	UG/L	0.0		4/03/92		Heptachlor
00.24612	00.24612	1024573	1.	1.2	UG/L	0.0		4/03/92		Heptachlor epoxide
00.24612	00.24612	58899	0.2	0.22	UG/L	0.0		4/03/92		Lindane
00.24612	00.24612	72435	3.	3.8	UG/L	0.0		4/03/92		Methoxychlor

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

Blank Spike Duplicate Results, Sample # 00.24612 Date Collected: 3/17/92 Date Received: 3/17/92 Date Extracted: 3/20/92 Date Analyzed: 4/01/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.24612	00.24612	309002	0.2	0.22	UG/L	0.0		4/03/92		Aldrin
00.24612	00.24612	319846	0.2	0.23	UG/L	0.0		4/03/92		alpha-BHC
00.24612	00.24612	319857	0.2	0.19	UG/L	0.0		4/03/92		beta-BHC
00.24612	00.24612	319868	0.2	0.18	UG/L	0.0		4/03/92		delta-BHC
00.24612	00.24612	72548	1.	0.95	UG/L	0.0		4/03/92		p,p'-DDD
00.24612	00.24612	72559	0.2	0.17	UG/L	0.0		4/03/92		p,p'-DDE
00.24612	00.24612	50293	1.	1.3	UG/L	0.0		4/03/92		p,p'-DDT
00.24612	00.24612	60571	0.2	0.24	UG/L	0.0		4/03/92		Dieldrin
00.24612	00.24612	959988	0.2	0.3	UG/L	0.0		4/03/92		Endosulfan I
00.24612	00.24612	33213659	1.	1.2	UG/L	0.0		4/03/92		Endosulfan II
00.24612	00.24612	1031078	1.	1.	UG/L	0.0		4/03/92		Endosulfan sulfate
00.24612	00.24612	72208	0.2	0.22	UG/L	0.0		4/03/92		Endrin
00.24612	00.24612	7421934	0.5	0.56	UG/L	0.0		4/03/92		Endrin aldehyde
00.24612	00.24612	76448	0.2	0.24	UG/L	0.0		4/03/92		Heptachlor
00.24612	00.24612	1024573	1.	1.2	UG/L	0.0		4/03/92		Heptachlor epoxide
00.24612	00.24612	58899	0.2	0.22	UG/L	0.0		4/03/92		Lindane
00.24612	00.24612	72435	3.	3.8	UG/L	0.0		4/03/92		Methoxychlor

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

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

Blind QC Results, Sample # 92.03086 Date Collected: 3/17/92 Date Received: 3/17/92 Date Extracted: 3/20/92 Date Analyzed: 4/01/92

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
92.03086	309002	< 0.04		UG/L	0.0		4/03/92	UNDER CONTROL	Aldrin
92.03086	319846	< 0.03		UG/L	0.0		4/03/92	UNDER CONTROL	alpha-BHC
92.03086	319857	0.12	0.03	UG/L	0.2	0.02	4/03/92	WARNING 2-3 SIG	beta-BHC
92.03086	319868	< 0.09		UG/L	0.0		4/03/92	UNDER CONTROL	delta-BHC
92.03086	57749	< 0.14		UG/L	0.0		4/03/92	UNDER CONTROL	Chlordane
92.03086	72548	< 0.11		UG/L	0.0		4/03/92	UNDER CONTROL	p,p'-DDD
92.03086	72559	0.14	0.04	UG/L	0.42	0.04	4/03/92	OUT OF CONTROL	p,p'-DDE
92.03086	50293	0.16	0.05	UG/L	0.43	0.04	4/03/92	OUT OF CONTROL	p,p'-DDT
92.03086	60571	< 0.02		UG/L	0.0		4/03/92	UNDER CONTROL	Dieldrin
92.03086	959988	< 0.14		UG/L	0.0		4/03/92	UNDER CONTROL	Endosulfan I
92.03086	33213659	< 0.04		UG/L	0.0		4/03/92	UNDER CONTROL	Endosulfan II
92.03086	1031078	< 0.66		UG/L	0.0		4/03/92	UNDER CONTROL	Endosulfan sulfate
92.03086	72208	0.28	0.07	UG/L	0.41	0.04	4/03/92	UNDER CONTROL	Endrin
92.03086	7421934	< 0.23		UG/L	0.0		4/03/92	UNDER CONTROL	Endrin aldehyde
92.03086	76448	< 0.03		UG/L	0.0		4/03/92	UNDER CONTROL	Heptachlor
92.03086	1024573	< 0.83		UG/L	0.25	0.02	4/03/92	UNDER CONTROL	Heptachlor epoxide
92.03086	58899	0.12	0.03	UG/L	0.24	0.02	4/03/92	OUT OF CONTROL	Lindane
92.03086	72435	< 1.8		UG/L	1.01	0.1	4/03/92	UNDER CONTROL	Methoxychlor
92.03086	8001352	< 2.4		UG/L	0.0		4/03/92	UNDER CONTROL	Toxaphene

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

Surrogate results for EPA PESTICIDES: Dibutyl chlorendate (CAS # = 96); EPA Range Limits: Water = 24 - 150 %, Soil = 24 - 154 %

SAMPLE NUMBER	RESULT	UNITS	COMPLETION DATE	COMMENT	SAMPLE TYPE

Surrogate results for EPA PESTICIDES: Dibutyl chlorendate (CAS # = 96); EPA Range Limits: Water = 24 - 150 %, Soil = 24 - 154 %

SAMPLE NUMBER	RESULT	UNITS	COMPLETION DATE	COMMENT	SAMPLE TYPE
00.24612	85.	%	4/03/92		B
00.24612	78.	%	4/03/92		BS
00.24612	92.	%	4/03/92		BS
00.24612	71.	%	4/03/92		BSD
00.24612	110.	%	4/03/92		BSD
92.03083	0.0	%	4/03/92		
92.03084	0.0	NOSURR	4/03/92		
92.03085	0.0	NOSURR	4/03/92		
92.03086	68.	%	4/03/92		

REPORT NUMBER: 14369

Analyst	Reviewer	Section Leader	QA Officer
			mag

Date	Date	Date	Date
			7/1/92

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: 1986,' LA-11114-MS, pp. 3-4.

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********** EM-9 ANALYTICAL REPORT **********

EPA PESTICIDES Prepared by: DMH on 29-Jun-1992

REQUEST NUMBER: 12629 MATRIX: S ANALYST: 203 PROGRAM CODE: W21D NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCEC ANALYTICAL PROCEDURE:

Customer Sample Results, Sample # 92.03091 Date Collected: 3/17/92 Date Received: 3/17/92 Date Extracted: 3/24/92 Date Analyzed: 4/03/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
PF-RAD-IT-1S	92.03091	309002	< 1.7		UG/KG	4/03/92		Aldrin
PF-RAD-IT-1S	92.03091	319846	< 1.3		UG/KG	4/03/92		alpha-BHC
PF-RAD-IT-1S	92.03091	319857	< 2.6		UG/KG	4/03/92		beta-BHC
PF-RAD-IT-1S	92.03091	319868	< 3.9		UG/KG	4/03/92		delta-BHC
PF-RAD-IT-1S	92.03091	57749	< 6.		UG/KG	4/03/92		Chlordane
PF-RAD-IT-1S	92.03091	72548	< 4.7		UG/KG	4/03/92		p,p'-DDD
PF-RAD-IT-1S	92.03091	72559	< 1.7		UG/KG	4/03/92		p,p'-DDE
PF-RAD-IT-1S	92.03091	50293	< 5.2		UG/KG	4/03/92		p,p'-DDT
PF-RAD-IT-1S	92.03091	60571	< 0.86		UG/KG	4/03/92		Dieldrin
PF-RAD-IT-1S	92.03091	959988	< 6.		UG/KG	4/03/92		Endosulfan I
PF-RAD-IT-1S	92.03091	33213659	< 1.7		UG/KG	4/03/92		Endosulfan II
PF-RAD-IT-1S	92.03091	1031078	< 28.		UG/KG	4/03/92		Endosulfan sulfate
PF-RAD-IT-1S	92.03091	72208	< 2.6		UG/KG	4/03/92		Endrin
PF-RAD-IT-1S	92.03091	7421934	< 9.9		UG/KG	4/03/92		Endrin aldehyde
PF-RAD-IT-1S	92.03091	76448	< 1.3		UG/KG	4/03/92		Heptachlor
PF-RAD-IT-1S	92.03091	1024573	< 36.		UG/KG	4/03/92		Heptachlor epoxide
PF-RAD-IT-1S	92.03091	58899	< 1.7		UG/KG	4/03/92		Lindane
PF-RAD-IT-1S	92.03091	72435	< 76.		UG/KG	4/03/92		Methoxychlor
PF-RAD-IT-1S	92.03091	8001352	< 100.		UG/KG	4/03/92		Toxaphene

Tentatively Identified Compounds in Customer Sample # 92.03091

none

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

EPA PESTICIDES Prepared by: DMH on 29-Jun-1992

REQUEST NUMBER: 12629 MATRIX: S ANALYST: 203 PROGRAM CODE: W21D NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCEC 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 EM-9

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

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

Blank Results, Sample # 00.24611 Date Collected: 3/17/92 Date Received: 3/17/92 Date Extracted: 3/24/92 Date Analyzed: 4/03/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.24611	00.24611	309002	< 1.3		UG/KG	0.0		4/03/92	UNDER CONTROL	Aldrin
00.24611	00.24611	319846	< 0.99		UG/KG	0.0		4/03/92	UNDER CONTROL	alpha-BHC
00.24611	00.24611	319857	< 2.		UG/KG	0.0		4/03/92	UNDER CONTROL	beta-BHC
00.24611	00.24611	319868	< 3.		UG/KG	0.0		4/03/92	UNDER CONTROL	delta-BHC
00.24611	00.24611	57749	< 4.6		UG/KG	0.0		4/03/92	UNDER CONTROL	Chlordane
00.24611	00.24611	72548	< 3.6		UG/KG	0.0		4/03/92	UNDER CONTROL	p,p'-DDD
00.24611	00.24611	72559	< 1.3		UG/KG	0.0		4/03/92	UNDER CONTROL	p,p'-DDE
00.24611	00.24611	50293	< 4.		UG/KG	0.0		4/03/92	UNDER CONTROL	p,p'-DDT
00.24611	00.24611	60571	< 0.66		UG/KG	0.0		4/03/92	UNDER CONTROL	Dieldrin
00.24611	00.24611	959988	< 4.6		UG/KG	0.0		4/03/92	UNDER CONTROL	Endosulfan I
00.24611	00.24611	33213659	< 1.3		UG/KG	0.0		4/03/92	UNDER CONTROL	Endosulfan II
00.24611	00.24611	1031078	< 22.		UG/KG	0.0		4/03/92	UNDER CONTROL	Endosulfan sulfate
00.24611	00.24611	72208	< 2.		UG/KG	0.0		4/03/92	UNDER CONTROL	Endrin
00.24611	00.24611	7421934	< 7.6		UG/KG	0.0		4/03/92	UNDER CONTROL	Endrin aldehyde
00.24611	00.24611	76448	< 0.99		UG/KG	0.0		4/03/92	UNDER CONTROL	Heptachlor
00.24611	00.24611	1024573	< 27.		UG/KG	0.0		4/03/92	UNDER CONTROL	Heptachlor epoxide
00.24611	00.24611	58899	< 1.3		UG/KG	0.0		4/03/92	UNDER CONTROL	Lindane
00.24611	00.24611	72435	< 58.		UG/KG	0.0		4/03/92	UNDER CONTROL	Methoxychlor
00.24611	00.24611	8001352	< 79.		UG/KG	0.0		4/03/92	UNDER CONTROL	Toxaphene

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

Blank Spike Results, Sample # 00.24611 Date Collected: 3/17/92 Date Received: 3/17/92 Date Extracted: 3/24/92 Date Analyzed: 4/03/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.24611	00.24611	309002	6.7	7.9	UG/KG	0.0		4/03/92		Aldrin
00.24611	00.24611	319846	6.7	7.7	UG/KG	0.0		4/03/92		alpha-BHC
00.24611	00.24611	319857	6.7	8.7	UG/KG	0.0		4/03/92		beta-BHC
00.24611	00.24611	319868	6.7	8.8	UG/KG	0.0		4/03/92		delta-BHC
00.24611	00.24611	72548	33.	42.	UG/KG	0.0		4/03/92		p,p'-DDD
00.24611	00.24611	72559	6.7	7.9	UG/KG	0.0		4/03/92		p,p'-DDE
00.24611	00.24611	50293	33.	42.	UG/KG	0.0		4/03/92		p,p'-DDT
00.24611	00.24611	60571	6.7	7.7	UG/KG	0.0		4/03/92		Dieldrin
00.24611	00.24611	959988	6.7	9.5	UG/KG	0.0		4/03/92		Endosulfan I
00.24611	00.24611	33213659	33.	39.	UG/KG	0.0		4/03/92		Endosulfan II
00.24611	00.24611	1031078	33.	35.	UG/KG	0.0		4/03/92		Endosulfan sulfate
00.24611	00.24611	72208	6.7	7.6	UG/KG	0.0		4/03/92		Endrin
00.24611	00.24611	7421934	17.	17.	UG/KG	0.0		4/03/92		Endrin aldehyde
00.24611	00.24611	76448	6.7	8.9	UG/KG	0.0		4/03/92		Heptachlor
00.24611	00.24611	1024573	33.	37.	UG/KG	0.0		4/03/92		Heptachlor epoxide
00.24611	00.24611	58899	6.7	7.4	UG/KG	0.0		4/03/92		Lindane
00.24611	00.24611	72435	100.	111.	UG/KG	0.0		4/03/92		Methoxychlor

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

Blank Spike Duplicate Results, Sample # 00.24611 Date Collected: 3/17/92 Date Received: 3/17/92 Date Extracted: 3/24/92 Date Analyzed: 4/03/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.24611	00.24611	309002	6.7	8.3	UG/KG	0.0		4/03/92		Aldrin
00.24611	00.24611	319846	6.7	6.4	UG/KG	0.0		4/03/92		alpha-BHC
00.24611	00.24611	319857	6.7	7.	UG/KG	0.0		4/03/92		beta-BHC
00.24611	00.24611	319868	6.7	7.1	UG/KG	0.0		4/03/92		delta-BHC
00.24611	00.24611	72548	33.	32.	UG/KG	0.0		4/03/92		p,p'-DDD
00.24611	00.24611	72559	6.7	6.	UG/KG	0.0		4/03/92		p,p'-DDE
00.24611	00.24611	50293	33.	40.	UG/KG	0.0		4/03/92		p,p'-DDT
00.24611	00.24611	60571	6.7	8.1	UG/KG	0.0		4/03/92		Dieldrin
00.24611	00.24611	959988	6.7	9.9	UG/KG	0.0		4/03/92		Endosulfan I
00.24611	00.24611	33213659	33.	42.	UG/KG	0.0		4/03/92		Endosulfan II
00.24611	00.24611	1031078	33.	28.	UG/KG	0.0		4/03/92		Endosulfan sulfate
00.24611	00.24611	72208	6.7	5.9	UG/KG	0.0		4/03/92		Endrin
00.24611	00.24611	7421934	17.	18.	UG/KG	0.0		4/03/92		Endrin aldehyde
00.24611	00.24611	76448	6.7	8.4	UG/KG	0.0		4/03/92		Heptachlor
00.24611	00.24611	1024573	33.	36.	UG/KG	0.0		4/03/92		Heptachlor epoxide
00.24611	00.24611	58899	6.7	7.	UG/KG	0.0		4/03/92		Lindane
00.24611	00.24611	72435	100.	116.	UG/KG	0.0		4/03/92		Methoxychlor

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

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

Blind QC Results, Sample # 92.03092 Date Collected: 3/17/92 Date Received: 3/17/92 Date Extracted: 3/24/92 Date Analyzed: 4/01/92

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
92.03092	309002	< 0.0012		UG/G	0.0		4/03/92	UNDER CONTROL	Aldrin
92.03092	309002	< 0.0012		UG/G	0.0		4/03/92	UNDER CONTROL	Aldrin
92.03092	319846	< 0.0009		UG/G	0.0		4/03/92	UNDER CONTROL	alpha-BHC
92.03092	319846	< 0.0009		UG/G	0.0		4/03/92	UNDER CONTROL	alpha-BHC
92.03092	319857	0.03	0.007	UG/G	0.034	0.003	4/03/92	UNDER CONTROL	beta-BHC
92.03092	319868	< 0.0028		UG/G	0.0		4/03/92	UNDER CONTROL	delta-BHC
92.03092	319868	< 0.0028		UG/G	0.0		4/03/92	UNDER CONTROL	delta-BHC
92.03092	57749	< 0.0043		UG/G	0.0		4/03/92	UNDER CONTROL	Chlordane
92.03092	57749	< 0.0043		UG/G	0.0		4/03/92	UNDER CONTROL	Chlordane
92.03092	72548	< 0.0034		UG/G	0.0		4/03/92	UNDER CONTROL	p,p'-DDD
92.03092	72548	< 0.0034		UG/G	0.0		4/03/92	UNDER CONTROL	p,p'-DDD
92.03092	72559	0.064	0.018	UG/G	0.069	0.007	4/03/92	UNDER CONTROL	p,p'-DDE
92.03092	50293	0.1	0.03	UG/G	0.071	0.007	4/03/92	UNDER CONTROL	p,p'-DDT
92.03092	60571	< 0.0006		UG/G	0.0		4/03/92	UNDER CONTROL	Dieldrin
92.03092	60571	< 0.0006		UG/G	0.0		4/03/92	UNDER CONTROL	Dieldrin
92.03092	959988	< 0.0043		UG/G	0.0		4/03/92	UNDER CONTROL	Endosulfan I
92.03092	959988	< 0.0043		UG/G	0.0		4/03/92	UNDER CONTROL	Endosulfan I
92.03092	33213659	< 0.0012		UG/G	0.0		4/03/92	UNDER CONTROL	Endosulfan II
92.03092	33213659	< 0.0012		UG/G	0.0		4/03/92	UNDER CONTROL	Endosulfan II
92.03092	1031078	< 0.02		UG/G	0.0		4/03/92	UNDER CONTROL	Endosulfan sulfate
92.03092	1031078	< 0.02		UG/G	0.0		4/03/92	UNDER CONTROL	Endosulfan sulfate
92.03092	72208	0.058	0.016	UG/G	0.069	0.007	4/03/92	UNDER CONTROL	Endrin
92.03092	7421934	< 0.0071		UG/G	0.0		4/03/92	UNDER CONTROL	Endrin aldehyde
92.03092	7421934	< 0.0071		UG/G	0.0		4/03/92	UNDER CONTROL	Endrin aldehyde
92.03092	76448	< 0.0009		UG/G	0.0		4/03/92	UNDER CONTROL	Heptachlor
92.03092	76448	< 0.0009		UG/G	0.0		4/03/92	UNDER CONTROL	Heptachlor

92.03092	1024573	0.037	0.01	UG/G	0.041	0.004	4/03/92	UNDER CONTROL	Heptachlor epoxide
92.03092	58899	0.03	0.008	UG/G	0.041	0.004	4/03/92	UNDER CONTROL	Lindane
92.03092	72435	< 0.095		UG/G	0.17	0.02	4/03/92	UNDER CONTROL	Methoxychlor
92.03092	72435	< 0.095		UG/G	0.17	0.02	4/03/92	UNDER CONTROL	Methoxychlor
92.03092	8001352	< 0.074		UG/G	0.0		4/03/92	UNDER CONTROL	Toxaphene
92.03092	8001352	< 0.074		UG/G	0.0		4/03/92	UNDER CONTROL	Toxaphene

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

Surrogate results for EPA PESTICIDES: Dibutyl chlorendate (CAS # = 96); EPA Range Limits: Water = 24 - 150 %, Soil = 24 - 154 %

SAMPLE NUMBER	RESULT	UNITS	COMPLETION DATE	COMMENT	SAMPLE TYPE
00.24611	91.	%	4/03/92		BS
00.24611	80.	%	4/03/92		BS
00.24611	91.	%	4/03/92		BSD
00.24611	85.	%	4/03/92		BSD
92.03089	80.	%	4/03/92		
92.03089	77.	%	4/03/92		
92.03089	73.	%	4/03/92		
92.03090	83.	%	4/03/92		
92.03091	84.	%	4/03/92		
92.03092	91.	%	4/03/92		
92.03092	91.	%	4/03/92		

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

REPORT NUMBER: 14373

	L. Bigthorns		mag
Analyst	Reviewer	Section Leader	QA Officer
	7/1/92		7/1/92
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: 1986,' LA-11114-MS, pp. 3-4.

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********** EM-9 ANALYTICAL REPORT **********

Prepared by: LAT on 9-Jun-1992

POLYCHLORINATED BIPHENYLS

REQUEST NUMBER: 12783 MATRIX: C ANALYST: WAVERLY BRAUNSTEIN PROGRAM CODE: W21M NOTEBOOK: NA PAGE: NA

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCEC ANALYTICAL PROCEDURE:

SUMMARY of TOTAL PCB's for customer samples on this report

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-S	92.05120	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-H1-S-Q	92.05121	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-H1-S	92.05122	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-I1-S	92.05123	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-J1-S	92.05124	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-K1-S	92.05125	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-L1-S	92.05126	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-M1-S	92.05127	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-N1-S	92.05128	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-O1-S	92.05129	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-P1-S	92.05130	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-Q1-S	92.05131	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-R1-S	92.05132	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-S1-S	92.05133	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-T1-S	92.05134	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-U1-S	92.05135	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-CBS-S	92.05136	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor

DETAILED PCB DATA for customer samples on this report

CUSTOMER	SAMPLE	ANALYTICAL	ANALYTICAL	COMPLETION

NL	NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	ATE	COMMENT	COMPOUND NAME
53-SC-G1-S	92.05120	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-G1-S	92.05120	53469219	< 0.06		UG/G	6/05/92		Aroclor 1242
53-SC-G1-S	92.05120	11097691	< 0.06		UG/G	6/05/92		Aroclor 1254
53-SC-G1-S	92.05120	11096825	< 0.06		UG/G	6/05/92		Aroclor 1260
53-SC-H1-S-Q	92.05121	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-H1-S-Q	92.05121	53469219	< 0.06		UG/G	6/05/92		Aroclor 1242
53-SC-H1-S-Q	92.05121	11097691	< 0.06		UG/G	6/05/92		Aroclor 1254
53-SC-H1-S-Q	92.05121	11096825	< 0.06		UG/G	6/05/92		Aroclor 1260
53-SC-H1-S	92.05122	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-H1-S	92.05122	53469219	< 0.06		UG/G	6/05/92		Aroclor 1242
53-SC-H1-S	92.05122	11097691	< 0.06		UG/G	6/05/92		Aroclor 1254
53-SC-H1-S	92.05122	11096825	< 0.06		UG/G	6/05/92		Aroclor 1260
53-SC-I1-S	92.05123	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-I1-S	92.05123	53469219	< 0.06		UG/G	6/05/92		Aroclor 1242
53-SC-I1-S	92.05123	11097691	< 0.06		UG/G	6/05/92		Aroclor 1254
53-SC-I1-S	92.05123	11096825	< 0.06		UG/G	6/05/92		Aroclor 1260
53-SC-J1-S	92.05124	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-J1-S	92.05124	53469219	< 0.06		UG/G	6/05/92		Aroclor 1242
53-SC-J1-S	92.05124	11097691	< 0.06		UG/G	6/05/92		Aroclor 1254
53-SC-J1-S	92.05124	11096825	< 0.06		UG/G	6/05/92		Aroclor 1260
53-SC-K1-S	92.05125	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-K1-S	92.05125	53469219	< 0.06		UG/G	6/05/92		Aroclor 1242
53-SC-K1-S	92.05125	11097691	< 0.06		UG/G	6/05/92		Aroclor 1254
53-SC-K1-S	92.05125	11096825	< 0.06		UG/G	6/05/92		Aroclor 1260
53-SC-L1-S	92.05126	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-L1-S	92.05126	53469219	< 0.06		UG/G	6/05/92		Aroclor 1242
53-SC-L1-S	92.05126	11097691	< 0.06		UG/G	6/05/92		Aroclor 1254
53-SC-L1-S	92.05126	11096825	< 0.06		UG/G	6/05/92		Aroclor 1260
53-SC-M1-S	92.05127	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-M1-S	92.05127	53469219	< 0.06		UG/G	6/05/92		Aroclor 1242
53-SC-M1-S	92.05127	11097691	< 0.06		UG/G	6/05/92		Aroclor 1254
53-SC-M1-S	92.05127	11096825	< 0.06		UG/G	6/05/92		Aroclor 1260
53-SC-N1-S	92.05128	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-N1-S	92.05128	53469219	< 0.06		UG/G	6/05/92		Aroclor 1242
53-SC-N1-S	92.05128	11097691	< 0.06		UG/G	6/05/92		Aroclor 1254
53-SC-N1-S	92.05128	11096825	< 0.06		UG/G	6/05/92		Aroclor 1260
53-SC-O1-S	92.05129	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-O1-S	92.05129	53469219	< 0.06		UG/G	6/05/92		Aroclor 1242
53-SC-O1-S	92.05129	11097691	< 0.06		UG/G	6/05/92		Aroclor 1254
53-SC-O1-S	92.05129	11096825	< 0.06		UG/G	6/05/92		Aroclor 1260
53-SC-P1-S	92.05130	1336363	< 0.06		UG/G	6/05/92		Mixed-Aroclor
53-SC-P1-S	92.05130	53469219	< 0.06		UG/G	6/05/92		Aroclor 1242
53-SC-P1-S	92.05130	11097691	< 0.06		UG/G	6/05/92		Aroclor 1254

53-SC	92.05130	11096825	< 0.06	UG/G	05/92	Aroclor 1260
53-SC-Q1-S	92.05131	1336363	< 0.06	UG/G	6/05/92	Mixed-Aroclor
53-SC-Q1-S	92.05131	53469219	< 0.06	UG/G	6/05/92	Aroclor 1242
53-SC-Q1-S	92.05131	11097691	< 0.06	UG/G	6/05/92	Aroclor 1254
53-SC-Q1-S	92.05131	11096825	< 0.06	UG/G	6/05/92	Aroclor 1260
53-SC-R1-S	92.05132	1336363	< 0.06	UG/G	6/05/92	Mixed-Aroclor
53-SC-R1-S	92.05132	53469219	< 0.06	UG/G	6/05/92	Aroclor 1242
53-SC-R1-S	92.05132	11097691	< 0.06	UG/G	6/05/92	Aroclor 1254
53-SC-R1-S	92.05132	11096825	< 0.06	UG/G	6/05/92	Aroclor 1260
53-SC-S1-S	92.05133	1336363	< 0.06	UG/G	6/05/92	Mixed-Aroclor
53-SC-S1-S	92.05133	53469219	< 0.06	UG/G	6/05/92	Aroclor 1242
53-SC-S1-S	92.05133	11097691	< 0.06	UG/G	6/05/92	Aroclor 1254
53-SC-S1-S	92.05133	11096825	< 0.06	UG/G	6/05/92	Aroclor 1260
53-SC-T1-S	92.05134	1336363	< 0.06	UG/G	6/05/92	Mixed-Aroclor
53-SC-T1-S	92.05134	53469219	< 0.06	UG/G	6/05/92	Aroclor 1242
53-SC-T1-S	92.05134	11097691	< 0.06	UG/G	6/05/92	Aroclor 1254
53-SC-T1-S	92.05134	11096825	< 0.06	UG/G	6/05/92	Aroclor 1260
53-SC-U1-S	92.05135	1336363	< 0.06	UG/G	6/05/92	Mixed-Aroclor
53-SC-U1-S	92.05135	53469219	< 0.06	UG/G	6/05/92	Aroclor 1242
53-SC-U1-S	92.05135	11097691	< 0.06	UG/G	6/05/92	Aroclor 1254
53-SC-U1-S	92.05135	11096825	< 0.06	UG/G	6/05/92	Aroclor 1260
53-SC-CBS-S	92.05136	1336363	< 0.06	UG/G	6/05/92	Mixed-Aroclor
53-SC-CBS-S	92.05136	53469219	< 0.06	UG/G	6/05/92	Aroclor 1242
53-SC-CBS-S	92.05136	11097691	< 0.06	UG/G	6/05/92	Aroclor 1254
53-SC-CBS-S	92.05136	11096825	< 0.06	UG/G	6/05/92	Aroclor 1260

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

POLYCHLORINATED BIPHENYLS Prepared by: LAT on 9-Jun-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: WAVERLY BRAUNSTEIN PROGRAM CODE: W21M NOTEBOOK: NA PAGE: NA

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCEC 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 EM-9

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

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

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

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
92.05377	1336363	21.	6.	UG/G	26.	3.	6/05/92	UNDER CONTROL	Mixed-Aroclor
92.05377	53469219	21.	6.	UG/G	26.	3.	6/05/92	UNDER CONTROL	Aroclor 1242
92.05377	11097691	< 0.6		UG/G	0.0		6/05/92	UNDER CONTROL	Aroclor 1254
92.05377	11096825	< 0.6		UG/G	0.0		6/05/92	UNDER CONTROL	Aroclor 1260

REPORT NUMBER: 14203

Analyst	Reviewer	Section Leader	QA Officer
6/10/92	6/10/92	6/15/92	6-15-92
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: 1986,' LA-11114-MS, pp. 3-4.

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********** EM-9 ANALYTICAL REPORT **********

Prepared by: LAT on 10-Jun-1992

POLYCHLORINATED BIPHENYLS

REQUEST NUMBER: 12787 MATRIX: W ANALYST: WAVERLY BRAUNSTEIN PROGRAM CODE: W21M NOTEBOOK: NA PAGE: NA

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCEC ANALYTICAL PROCEDURE:

PCBs

SUMMARY of TOTAL PCB's for customer samples on this report

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-W	92.05154	1336363	< 5.		UG/L	6/04/92		Mixed-Aroclor
53-SC-G1-W-Q	92.05155	1336363	< 5.		UG/L	6/04/92		Mixed-Aroclor
53-SC-EBK-W	92.05156	1336363	< 5.		UG/L	6/04/92		Mixed-Aroclor
53-SC-FBLK-W	92.05157	1336363	< 5.		UG/L	6/04/92		Mixed-Aroclor

DETAILED PCB DATA for customer samples on this report

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-W	92.05154	1336363	< 5.		UG/L	6/04/92		Mixed-Aroclor
53-SC-G1-W	92.05154	53469219	< 5.		UG/L	6/04/92		Aroclor 1242
53-SC-G1-W	92.05154	11097691	< 5.		UG/L	6/04/92		Aroclor 1254
53-SC-G1-W	92.05154	11096825	< 5.		UG/L	6/04/92		Aroclor 1260
53-SC-G1-W-Q	92.05155	1336363	< 5.		UG/L	6/04/92		Mixed-Aroclor
53-SC-G1-W-Q	92.05155	53469219	< 5.		UG/L	6/04/92		Aroclor 1242
53-SC-G1-W-Q	92.05155	11097691	< 5.		UG/L	6/04/92		Aroclor 1254
53-SC-G1-W-Q	92.05155	11096825	< 5.		UG/L	6/04/92		Aroclor 1260
53-SC-EBK-W	92.05156	1336363	< 5.		UG/L	6/04/92		Mixed-Aroclor
53-SC-EBK-W	92.05156	53469219	< 5.		UG/L	6/04/92		Aroclor 1242
53-SC-EBK-W	92.05156	11097691	< 5.		UG/L	6/04/92		Aroclor 1254

53-SC	92.05156	11096825	< 5.	UG/L	J4/92	Aroclor 1260
53-SC-FBLK-W	92.05157	1336363	< 5.	UG/L	6/04/92	Mixed-Aroclor
53-SC-FBLK-W	92.05157	53469219	< 5.	UG/L	6/04/92	Aroclor 1242
53-SC-FBLK-W	92.05157	11097691	< 5.	UG/L	6/04/92	Aroclor 1254
53-SC-FBLK-W	92.05157	11096825	< 5.	UG/L	6/04/92	Aroclor 1260

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

POLYCHLORINATED BIPHENYLS Prepared by: LAT on 10-Jun-1992

REQUEST NUMBER: 12787 MATRIX: W ANALYST: WAVERLY BRAUNSTEIN PROGRAM CODE: W21M NOTEBOOK: NA PAGE: NA

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCEC 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 EM-9

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

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

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

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
92.05362	1336363	22.	6.6	UG/L	25.	2.	6/03/92	UNDER CONTROL	Mixed-Aroclor
92.05362	53469219	< 1.		UG/L	0.0		6/03/92	UNDER CONTROL	Aroclor 1242
92.05362	11097691	22.	6.6	UG/L	25.	2.	6/03/92	UNDER CONTROL	Aroclor 1254
92.05362	11096825	< 1.		UG/L	0.0		6/03/92	UNDER CONTROL	Aroclor 1260

REPORT NUMBER: 14219

Analyst	Reviewer	Section Leader	QA Officer
6/10/92	6/10/92	6/15/92	6-15-92
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: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 14184 1A-73 1 Hg Page: 01

********** EM-9 ANALYTICAL REPORT **********

Prepared by: MGBELL on 8-Jun-1992

ANALYSIS: HG REQUEST NUMBER: 12782 MATRIX: C ANALYST: MICHAEL BELL PROGRAM CODE: W21M

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815

ANALYTICAL TECHNIQUE: CVAA ANALYTICAL PROCEDURE: 245.2 NOTEBOOK: Y04110 PAGE: 112

CUSTOMER SAMPLES:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS (ppb)	COMPLETION DATE	COMMENT
53-SC-G1-S	92.05120	19.	10.	NG/G	6/08/92	
53-SC-H1-S-Q	92.05121	16.	10.	NG/G	6/08/92	
53-SC-H1-S	92.05122	17.	10.	NG/G	6/08/92	
53-SC-I1-S	92.05123	13.	10.	NG/G	6/08/92	
53-SC-J1-S	92.05124	15.	10.	NG/G	6/08/92	< 20 ppm A.L.
53-SC-K1-S	92.05125	24.	10.	NG/G	6/08/92	
53-SC-L1-S	92.05126	18.	10.	NG/G	6/08/92	
53-SC-M1-S	92.05127	13.	10.	NG/G	6/08/92	
53-SC-N1-S	92.05128	14.	10.	NG/G	6/08/92	
53-SC-O1-S	92.05129	17.	10.	NG/G	6/08/92	
53-SC-P1-S	92.05130	19.	10.	NG/G	6/08/92	
53-SC-Q1-S	92.05131	16.	10.	NG/G	6/08/92	
53-SC-R1-S	92.05132	18.	10.	NG/G	6/08/92	
53-SC-S1-S	92.05133	21.	10.	NG/G	6/08/92	
53-SC-T1-S	92.05134	19.	10.	NG/G	6/08/92	
53-SC-U1-S	92.05135	22.	10.	NG/G	6/08/92	
53-SC-CBS-S	92.05136	52.	10.	NG/G	6/08/92	

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CUSTOMER SAMPLE DUPLICATES:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
53-SC-G1-S	92.05120	17.	10.	NG/G	6/08/92	
53-SC-P1-S	92.05130	18.	10.	NG/G	6/08/92	

**** ****** EM-9 ANALYTICAL REPORT **********

CUSTOMER SAMPLE MATRIX SPIKES :

CUSTOMER NUMBER	SAMPLE NUMBER	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT
53-SC-G1-S	92.05120	2.	2.	UG/L	6/08/92	
53-SC-P1-S	92.05130	2.	2.	UG/L	6/08/92	

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

Prepared by: MGBELL on 8-Jun-1992

REQUEST NUMBER: 12782 MATRIX: C ANALYST: MICHAEL BELL PROGRAM CODE: W21M

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815

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

SAMPLE NUM	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT
00.23653	4.2	0.4	UG/L	4.	0.2	6/08/92	UNDER CONTROL
00.23653	4.2	0.4	UG/L	4.	0.2	6/08/92	UNDER CONTROL
00.24494	7.1	0.7	UG/L	7.	0.41	6/08/92	UNDER CONTROL

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

SAMPLE NUM	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT
92.05198	3.1	0.3	UG/L	3.	0.18	6/08/92	UNDER CONTROL
92.05199	< 0.1		UG/L	0.0		6/08/92	UNDER CONTROL

REPORT NUMBER: 14184

Analyst	Reviewer	Section Leader	QA Officer
MS	CMHR	W. P.	mag
6/8/92	6-8-92	6/8/92	6/8/92
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: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 14398

********** EM-9 ANALYTICAL REPORT **********

Prepared by: MWK on 30-Jun-1992

REQUEST NUMBER: 12782 MATRIX: C ANALYST: MARTIN KOBY PROGRAM CODE: W21M

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815

ANALYTICAL TECHNIQUE: ICPMS ANALYTICAL PROCEDURE: EPA6020 NOTEBOOK: PAGE:

CUSTOMER SAMPLES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
53-SC-G1-S	92.05120	AG	< 1.7		UG/G	6/26/92	
53-SC-G1-S	92.05120	AS	1.7	1.	UG/G	6/26/92	
53-SC-G1-S	92.05120	BA	9.1	1.	UG/G	6/26/92	
53-SC-G1-S	92.05120	CD	< 1.7		UG/G	6/26/92	
53-SC-G1-S	92.05120	CR	2.6	1.	UG/G	6/26/92	
53-SC-G1-S	92.05120	PB	1.7	1.	UG/G	6/26/92	
53-SC-G1-S	92.05120	SE	< 1.7		UG/G	6/26/92	
53-SC-H1-S-Q	92.05121	AG	< 1.4		UG/G	6/26/92	
53-SC-H1-S-Q	92.05121	AS	< 1.4		UG/G	6/26/92	
53-SC-H1-S-Q	92.05121	BA	6.4	1.	UG/G	6/26/92	
53-SC-H1-S-Q	92.05121	CD	< 1.4		UG/G	6/26/92	
53-SC-H1-S-Q	92.05121	CR	2.1	1.	UG/G	6/26/92	
53-SC-H1-S-Q	92.05121	PB	1.4	1.	UG/G	6/26/92	
53-SC-H1-S-Q	92.05121	SE	2.4	1.	UG/G	6/26/92	
53-SC-H1-S	92.05122	AG	< 1.6		UG/G	6/26/92	
53-SC-H1-S	92.05122	AS	< 1.6		UG/G	6/26/92	
53-SC-H1-S	92.05122	BA	6.8	1.	UG/G	6/26/92	
53-SC-H1-S	92.05122	CD	< 1.6		UG/G	6/26/92	
53-SC-H1-S	92.05122	CR	2.3	1.	UG/G	6/26/92	
53-SC-H1-S	92.05122	PB	< 1.6		UG/G	6/26/92	
53-SC-H1-S	92.05122	SE	1.6	1.	UG/G	6/26/92	
53-SC-I1-S	92.05123	AG	< 1.7		UG/G	6/26/92	
53-SC-I1-S	92.05123	AS	< 1.7		UG/G	6/26/92	
53-SC-I1-S	92.05123	BA	4.	1.	UG/G	6/26/92	
53-SC-I1-S	92.05123	CD	< 1.7		UG/G	6/26/92	
53-SC-I1-S	92.05123	CR	2.2	1.	UG/G	6/26/92	
53-SC-I1-S	92.05123	PB	< 1.7		UG/G	6/26/92	
53-SC-I1-S	92.05123	SE	< 1.7		UG/G	6/26/92	
53-SC-J1-S	92.05124	AG	< 1.4		UG/G	6/26/92	
53-SC-J1-S	92.05124	AS	< 1.4		UG/G	6/26/92	
53-SC-J1-S	92.05124	BA	4.4	1.	UG/G	6/26/92	
53-SC-J1-S	92.05124	CD	< 1.4		UG/G	6/26/92	
53-SC-J1-S	92.05124	CR	2.	1.	UG/G	6/26/92	
53-SC-J1-S	92.05124	PB	1.5	1.	UG/G	6/26/92	
53-SC-J1-S	92.05124	SE	< 1.4		UG/G	6/26/92	
53-SC-K1-S	92.05125	AG	< 1.7		UG/G	6/26/92	
53-SC-K1-S	92.05125	AS	1.8	1.	UG/G	6/26/92	

53-SC-K1-S	92.05125	BA	9.9	1.	UG/G	6/26/92
53-SC-K1-S	92.05125	CD	< 1.7		UG/G	6/26/92
53-SC-K1-S	92.05125	CR	3.4	1.	UG/G	6/26/92
53-SC-K1-S	92.05125	PB	2.9	1.	UG/G	6/26/92
53-SC-K1-S	92.05125	SE	< 1.7		UG/G	6/26/92
53-SC-L1-S	92.05126	AG	< 2.		UG/G	6/26/92
53-SC-L1-S	92.05126	AS	< 2.		UG/G	6/26/92
53-SC-L1-S	92.05126	BA	3.5	1.	UG/G	6/26/92
53-SC-L1-S	92.05126	CD	< 2.		UG/G	6/26/92
53-SC-L1-S	92.05126	CR	2.6	1.	UG/G	6/26/92
53-SC-L1-S	92.05126	PB	< 2.		UG/G	6/26/92
53-SC-L1-S	92.05126	SE	< 2.		UG/G	6/26/92
53-SC-M1-S	92.05127	AG	< 1.6		UG/G	6/26/92
53-SC-M1-S	92.05127	AS	< 1.6		UG/G	6/26/92
53-SC-M1-S	92.05127	BA	4.3	1.	UG/G	6/26/92
53-SC-M1-S	92.05127	CD	< 1.6		UG/G	6/26/92
53-SC-M1-S	92.05127	CR	2.	1.	UG/G	6/26/92
53-SC-M1-S	92.05127	PB	< 1.6		UG/G	6/26/92
53-SC-M1-S	92.05127	SE	< 1.6		UG/G	6/26/92
53-SC-N1-S	92.05128	AG	< 1.7		UG/G	6/26/92
53-SC-N1-S	92.05128	BA	4.1	1.	UG/G	6/26/92
53-SC-N1-S	92.05128	CD	< 1.7		UG/G	6/26/92
53-SC-N1-S	92.05128	CR	< 1.7		UG/G	6/26/92
53-SC-N1-S	92.05128	PB	< 1.7		UG/G	6/26/92
53-SC-N1-S	92.05128	SE	4.5	1.	UG/G	6/26/92
53-SC-O1-S	92.05129	AG	< 1.8		UG/G	6/26/92
53-SC-O1-S	92.05129	AS	1.8	1.	UG/G	6/26/92
53-SC-O1-S	92.05129	BA	4.4	1.	UG/G	6/26/92
53-SC-O1-S	92.05129	CD	< 1.8		UG/G	6/26/92
53-SC-O1-S	92.05129	CR	2.4	1.	UG/G	6/26/92
53-SC-O1-S	92.05129	PB	< 1.8		UG/G	6/26/92
53-SC-O1-S	92.05129	SE	2.2	1.	UG/G	6/26/92
53-SC-P1-S	92.05130	AG	< 1.9		UG/G	6/26/92
53-SC-P1-S	92.05130	AS	< 1.9		UG/G	6/26/92
53-SC-P1-S	92.05130	BA	5.8	1.	UG/G	6/26/92
53-SC-P1-S	92.05130	CD	< 1.9		UG/G	6/26/92
53-SC-P1-S	92.05130	CR	2.7	1.	UG/G	6/26/92
53-SC-P1-S	92.05130	PB	< 1.9		UG/G	6/26/92
53-SC-P1-S	92.05130	SE	4.9	1.	UG/G	6/26/92
53-SC-Q1-S	92.05131	AG	< 1.6		UG/G	6/26/92
53-SC-Q1-S	92.05131	AS	< 1.6		UG/G	6/26/92
53-SC-Q1-S	92.05131	BA	4.4	1.	UG/G	6/26/92
53-SC-Q1-S	92.05131	CD	< 1.6		UG/G	6/26/92
53-SC-Q1-S	92.05131	CR	2.3	1.	UG/G	6/26/92
53-SC-Q1-S	92.05131	PB	< 1.6		UG/G	6/26/92
53-SC-Q1-S	92.05131	SE	1.7	1.	UG/G	6/26/92
53-SC-R1-S	92.05132	AG	< 1.7		UG/G	6/26/92
53-SC-R1-S	92.05132	AS	< 1.7		UG/G	6/26/92
53-SC-R1-S	92.05132	BA	5.7	1.	UG/G	6/26/92
53-SC-R1-S	92.05132	CD	< 1.7		UG/G	6/26/92
53-SC-R1-S	92.05132	CR	2.2	1.	UG/G	6/26/92
53-SC-R1-S	92.05132	PB	< 1.7		UG/G	6/26/92
53-SC-R1-S	92.05132	SE	3.3	1.	UG/G	6/26/92
53-SC-S1-S	92.05133	AG	< 1.3		UG/G	6/26/92
53-SC-S1-S	92.05133	AS	1.5	1.	UG/G	6/26/92
53-SC-S1-S	92.05133	BA	6.5	1.	UG/G	6/26/92
53-SC-S1-S	92.05133	CD	< 1.3		UG/G	6/26/92
53-SC-S1-S	92.05133	CR	2.3	1.	UG/G	6/26/92
53-SC-S1-S	92.05133	PB	1.5		UG/G	6/26/92
53-SC-S1-S	92.05133	SE	2.1	1.	UG/G	6/26/92

53-SC-T1-S	92.05134	AG	< 1.8		UG/G	6/26/92
53-SC-T1-S	92.05134	AS	< 1.8		UG/G	6/26/92
53-SC-T1-S	92.05134	BA	4.5	1.	UG/G	6/26/92
53-SC-T1-S	92.05134	CD	< 1.8		UG/G	6/26/92
53-SC-T1-S	92.05134	CR	2.3	1.	UG/G	6/26/92
53-SC-T1-S	92.05134	PB	< 1.8		UG/G	6/26/92
53-SC-T1-S	92.05134	SE	< 1.8		UG/G	6/26/92
53-SC-U1-S	92.05135	AG	< 1.9		UG/G	6/26/92
53-SC-U1-S	92.05135	AS	2.	1.	UG/G	6/26/92
53-SC-U1-S	92.05135	BA	4.8	1.	UG/G	6/26/92
53-SC-U1-S	92.05135	CD	< 1.9		UG/G	6/26/92
53-SC-U1-S	92.05135	CR	2.4	1.	UG/G	6/26/92
53-SC-U1-S	92.05135	PB	< 1.9		UG/G	6/26/92
53-SC-U1-S	92.05135	SE	1.9	1.	UG/G	6/26/92
53-SC-CBS-S	92.05136	AG	< 1.7		UG/G	6/26/92
53-SC-CBS-S	92.05136	AS	< 1.7		UG/G	6/26/92
53-SC-CBS-S	92.05136	BA	4.	1.	UG/G	6/26/92
53-SC-CBS-S	92.05136	CD	< 1.7		UG/G	6/26/92
53-SC-CBS-S	92.05136	CR	2.6	1.	UG/G	6/26/92
53-SC-CBS-S	92.05136	PB	1.8	1.	UG/G	6/26/92
53-SC-CBS-S	92.05136	SE	< 1.7		UG/G	6/26/92

CUSTOMER SAMPLE DUPLICATES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
53-SC-G1-S	92.05120	AG	< 1.6		UG/G	6/26/92	
53-SC-G1-S	92.05120	AS	1.7	1.	UG/G	6/26/92	
53-SC-G1-S	92.05120	BA	9.3	1.	UG/G	6/26/92	
53-SC-G1-S	92.05120	CD	< 1.6		UG/G	6/26/92	
53-SC-G1-S	92.05120	CR	2.6	1.	UG/G	6/26/92	
53-SC-G1-S	92.05120	PB	1.8	1.	UG/G	6/26/92	
53-SC-G1-S	92.05120	SE	< 1.6		UG/G	6/26/92	
53-SC-P1-S	92.05130	AG	< 1.6		UG/G	6/26/92	
53-SC-P1-S	92.05130	AS	< 1.6		UG/G	6/26/92	
53-SC-P1-S	92.05130	BA	5.7	1.	UG/G	6/26/92	
53-SC-P1-S	92.05130	CD	< 1.6		UG/G	6/26/92	
53-SC-P1-S	92.05130	CR	2.3	1.	UG/G	6/26/92	
53-SC-P1-S	92.05130	PB	< 1.6		UG/G	6/26/92	
53-SC-P1-S	92.05130	SE	< 1.6		UG/G	6/26/92	

MATRIX SPIKES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT
53-SC-G1-S	92.05120	AG	8.33	8.7	UG/G	6/26/92	
53-SC-G1-S	92.05120	AS	8.33	7.96	UG/G	6/26/92	
53-SC-G1-S	92.05120	BA	8.33	7.65	UG/G	6/26/92	
53-SC-G1-S	92.05120	CD	8.33	8.6	UG/G	6/26/92	
53-SC-G1-S	92.05120	CR	8.33	8.77	UG/G	6/26/92	
53-SC-G1-S	92.05120	PB	8.33	6.81	UG/G	6/26/92	
53-SC-G1-S	92.05120	SE	8.33	6.86	UG/G	6/26/92	
53-SC-P1-S	92.05130	AG	9.5	9.8	UG/G	6/26/92	
53-SC-P1-S	92.05130	AS	9.5	11.1	UG/G	6/26/92	
53-SC-P1-S	92.05130	BA	9.5	9.	UG/G	6/26/92	
53-SC-P1-S	92.05130	CD	9.5	9.8	UG/G	6/26/92	

53-SC-P1-S	92.05130 CR	9.5	10.4	UG/G	6/26/92
53-SC-P1-S	92.05130 PB	9.5	10.1	UG/G	6/26/92
53-SC-P1-S	92.05130 SE	9.5	9.78	UG/G	6/26/92

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REPORT NUMBER: 14398 (continued)

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

Prepared by: MWK on 30-Jun-1992

REQUEST NUMBER: 12782 MATRIX: C ANALYST: MARTIN KOBY PROGRAM CODE: W21M

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815

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
00.22907	AG	104.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	AG	103.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	AG	103.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	AS	105.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	AS	104.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	AS	104.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	BA	99.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	BA	98.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	BA	99.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	CD	103.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	CD	103.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	CD	101.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	CR	110.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	CR	108.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	CR	105.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	PB	89.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	PB	86.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	PB	86.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	SE	110.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	SE	109.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	SE	107.	10.	UG/L	100.	10.	6/26/92	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
92.05766	AS	39.7	4.	UG/L	45.	1.9	6/26/92	UNDER CONTROL
92.05766	BA	8.3	1.	UG/L	8.	0.3	6/26/92	UNDER CONTROL
92.05766	CD	14.6	2.	UG/L	16.	0.7	6/26/92	UNDER CONTROL

92.05766 CR	45.6	5.	UG/L	42.	1.8	6/26/92	UNDER CONTROL
92.05766 PB	7.9	1.	UG/L	8.	0.3	6/26/92	UNDER CONTROL
92.05767 AS	26.3	3.	UG/L	7.	0.3	6/26/92	OUT OF CONTROL
92.05767 BA	21.1	2.	UG/L	20.	0.9	6/26/92	UNDER CONTROL
92.05767 CD	5.6	1.	UG/L	6.	0.3	6/26/92	UNDER CONTROL
92.05767 CR	22.5	2.	UG/L	20.	0.9	6/26/92	UNDER CONTROL
92.05767 PB	16.8	2.	UG/L	18.	0.8	6/26/92	UNDER CONTROL
92.05768 AG	8.3	1.	UG/L	8.	0.3	6/26/92	UNDER CONTROL
92.05769 AG	48.7	5.	UG/L	48.	2.1	6/26/92	UNDER CONTROL
92.05770 SE	55.4	6.	UG/L	75.	3.	6/26/92	WARNING 2-3 SIG
92.05771 SE	71.6	7.	UG/L	98.	4.	6/26/92	OUT OF CONTROL

REPORT NUMBER: 14398

Analyst	Reviewer	Section Leader	QA Officer
6/30/92	7-1-92	7/1/92	7-1-92
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: 1986,' LA-11114-MS, pp. 3-4.

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********** EM-9 ANALYTICAL REPORT **********

Prepared by: MGBELL on 10-Jun-1992

ANALYSIS: HG REQUEST NUMBER: 12786 MATRIX: W ANALYST: MICHAEL BELL PROGRAM CODE: W21M

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815

ANALYTICAL TECHNIQUE: CVAA ANALYTICAL PROCEDURE: 245.2 NOTEBOOK: Y04110 PAGE: 121

CUSTOMER SAMPLES:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
53-SC-G1-W	92.05154	< 0.1		UG/L	6/10/92	
53-SC-G1-W-Q	92.05155	< 0.1		UG/L	6/10/92	
53-SC-EBK-W	92.05156	< 0.1		UG/L	6/10/92	

CUSTOMER SAMPLE DUPLICATES:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
53-SC-G1-W	92.05154	< 0.1		UG/L	6/10/92	

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER SAMPLE MATRIX SPIKES :

CUSTOMER NUMBER	SAMPLE NUMBER	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT
53-SC-G1-W	92.05154	2.	2.1	UG/L	6/10/92	

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

Prepared by: MGBELL on 10-Jun-1992

REQUEST NUMBER: 12786 MATRIX: W ANALYST: MICHAEL BELL PROGRAM CODE: W21M

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815

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

SAMPLE NUM	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT
00.24494	7.4	0.7	UG/L	7.	0.41	6/10/92	UNDER CONTROL

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

SAMPLE NUM	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT
92.05380	1.	0.1	UG/L	1.	0.06	6/10/92	UNDER CONTROL

REPORT NUMBER: 14222	Analyst	Reviewer	Section Leader	QA Officer
	6/10/92 Date	6/10/92 Date	6/10/92 Date	6/10/92 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: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 14395

********** EM-9 ANALYTICAL REPORT **********

Prepared by: MWK on 30-Jun-1992

REQUEST NUMBER: 12786 MATRIX: W ANALYST: MARTIN KOBY PROGRAM CODE: W21M

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815

ANALYTICAL TECHNIQUE: ICPMS ANALYTICAL PROCEDURE: EPA6020 NOTEBOOK: PAGE:

CUSTOMER SAMPLES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
53-SC-G1-W	92.05154	AG	< 1.		UG/L	6/26/92	
53-SC-G1-W	92.05154	AS	9.6	1.	UG/L	6/26/92	
53-SC-G1-W	92.05154	BA	45.7	4.8	UG/L	6/26/92	
53-SC-G1-W	92.05154	CD	< 1.		UG/L	6/26/92	
53-SC-G1-W	92.05154	CR	1.8	1.	UG/L	6/26/92	
53-SC-G1-W	92.05154	PB	< 1.		UG/L	6/26/92	
53-SC-G1-W	92.05154	SE	< 1.		UG/L	6/26/92	
53-SC-G1-W-Q	92.05155	AG	< 1.		UG/L	6/26/92	
53-SC-G1-W-Q	92.05155	AS	9.4	1.	UG/L	6/26/92	
53-SC-G1-W-Q	92.05155	BA	40.9	4.	UG/L	6/26/92	
53-SC-G1-W-Q	92.05155	CD	< 1.		UG/L	6/26/92	
53-SC-G1-W-Q	92.05155	CR	1.2	1.	UG/L	6/26/92	
53-SC-G1-W-Q	92.05155	PB	1.	1.	UG/L	6/26/92	
53-SC-G1-W-Q	92.05155	SE	< 1.		UG/L	6/26/92	
53-SC-EBK-W	92.05156	AG	< 1.		UG/L	6/26/92	
53-SC-EBK-W	92.05156	AS	1.7	1.	UG/L	6/26/92	
53-SC-EBK-W	92.05156	BA	1.3	1.	UG/L	6/26/92	
53-SC-EBK-W	92.05156	CD	< 1.		UG/L	6/26/92	
53-SC-EBK-W	92.05156	CR	< 1.		UG/L	6/26/92	
53-SC-EBK-W	92.05156	PB	8.2	1.	UG/L	6/26/92	
53-SC-EBK-W	92.05156	SE	< 1.		UG/L	6/26/92	

CUSTOMER SAMPLE DUPLICATES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
53-SC-G1-W	92.05154	AG	< 1.		UG/L	6/26/92	
53-SC-G1-W	92.05154	AS	9.2	1.	UG/L	6/26/92	
53-SC-G1-W	92.05154	BA	41.	4.1	UG/L	6/26/92	
53-SC-G1-W	92.05154	CD	< 1.		UG/L	6/26/92	
53-SC-G1-W	92.05154	CR	1.6	1.	UG/L	6/26/92	
53-SC-G1-W	92.05154	PB	< 1.		UG/L	6/26/92	
53-SC-G1-W	92.05154	SE	< 1.		UG/L	6/26/92	

MATRIX SPIKES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT
53-SC-G1-W	92.05154	AG	100.	81.4	UG/L	6/26/92	
53-SC-G1-W	92.05154	AS	100.	119.	UG/L	6/26/92	
53-SC-G1-W	92.05154	BA	100.	92.	UG/L	6/26/92	
53-SC-G1-W	92.05154	CD	100.	96.3	UG/L	6/26/92	
53-SC-G1-W	92.05154	CR	100.	96.8	UG/L	6/26/92	
53-SC-G1-W	92.05154	PB	100.	107.	UG/L	6/26/92	
53-SC-G1-W	92.05154	SE	100.	114.	UG/L	6/26/92	

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REPORT NUMBER: 14395 (continued)

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

Prepared by: MWK on 30-Jun-1992

REQUEST NUMBER: 12786 MATRIX: W ANALYST: MARTIN KOBY PROGRAM CODE: W21M

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815

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
00.22907	AG	98.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	AG	106.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	AS	125.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	AS	112.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	BA	112.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	BA	98.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	CD	102.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	CD	106.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	CR	104.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	CR	96.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	PB	107.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	PB	90.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	SE	112.	10.	UG/L	100.	10.	6/26/92	UNDER CONTROL
00.22907	SE	123.	10.	UG/L	100.	10.	6/26/92	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
92.05882	AS	45.4	4.5	UG/L	45.	1.9	6/26/92	UNDER CONTROL
92.05882	BA	9.2	1.	UG/L	8.	0.3	6/26/92	UNDER CONTROL
92.05882	CD	14.4	1.4	UG/L	16.	0.7	6/26/92	UNDER CONTROL
92.05882	CR	41.9	4.2	UG/L	42.	1.8	6/26/92	UNDER CONTROL
92.05882	PB	9.1	1.	UG/L	8.	0.3	6/26/92	UNDER CONTROL
92.05883	AG	38.4	3.8	UG/L	40.	1.7	6/26/92	UNDER CONTROL
92.05884	SE	42.8	4.3	UG/L	60.	2.6	6/26/92	OUT OF CONTROL

REPORT NUMBER: 14395				
	Analyst	Reviewer	Section Leader	QA Officer
	6/30/92	7-1-92	7/1/92	7-1-92
	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: 1986,' LA-11114-MS, pp. 3-4.

****

TO: PHILIP FRESQUEZ, EM-8

FROM: TONEY BEGAY, EM-9 Organic Analysis Section

THRU: CHRIS LEIBMAN
LAURA TSIAGKOURIS

DATE: MAY 20, 1992

REQUEST: 12783

The following sludge samples from TA-53 had confirmed hits. These samples were analyzed for Volatile Organic Components (VOC'S) using SW 846 Purge and Trap (P/T) GC/MS method 8260 of analysis.

The samples were received in 40 mL capacity vials. Approximately 5 grams of the sludge samples were weighed out and 5 mL of ISM/PSS spiked water was added and analyzed.

Since the samples were not blank subtracted, a copy of the method blank results have been included in the report. **The holding time requirement was met except for sample 92.05127, which was analyzed one day past the holding time expiration.**

The analyses were done on a gas chromatograph that had a 60 meter DB-5 column.

RESULTS:

	Acetone (ppb)	1,1,1-TCE (ppb)
92.05120	40	
92.05122		7.8
92.05123		16
92.05124		5.3
92.05126		6.5
92.05128	38	
92.05135	680	

QC SUMMARY:

The matrix spike recoveries were all within the control limits except for, 1,1-dichloroethene. These recoveries were low. The low recoveries were due the matrix spike mix made incorrectly.

Several of the surrogate recoveries were outside the control limits. These out of controls were possibly due to matrix effect because the method blanks had the surrogate recoveries within the control limits.

LOS ALAMOS NATIONAL LABORATORY
HEALTH, SAFETY AND ENVIRONMENT DIVISION
HSE-9
SURROGATE RECOVERIES FOR VOLATILES
SOIL

REQUEST #: 12783

NUMBER OF SAMPLES: 22
MATRIX 8
ANALYST: TRB
Date: 08/15/92

SURROGATE RECOVERIES

SURROGATE
RECOVERIES IN PERCENT (%)

	SAMPLE NUMBERS	TYPE	d4-1,2-dichloro-ethene	toluene-(d8)	4-bromo-fluoro-benzene
1	B92.05369	BLANK	97	103	98
2	B92.05371	BLANK	94	107	103
3	B92.05372	BLANK	88	100	86
4	B92.06454	BLANK	102	99	102
5	M92.04876	MATRIX SPIK	101	107	104
6	D92.04876	MATRIX SP-D	100	105	110
7	S92.05120	SAMPLE	80	100	134 *
8	S92.05121	SAMPLE	94	101	126 *
9	S92.05122	SAMPLE	93	102	119
10	S92.05123	SAMPLE	103	104	115
11	S92.05124	SAMPLE	103	98	117
12	S92.05125	SAMPLE	64 *	95	145 *
13	S92.05126	SAMPLE	67 *	94	149 *
14	S92.05127	SAMPLE	91	100	120
15	S92.05128	SAMPLE	84	101	126 *
16	S92.05129	SAMPLE	83	102	126 *
17	S92.05130	SAMPLE	68 *	98	133 *
18	S92.05131	SAMPLE	72	99	123 *
19	S92.05132	SAMPLE	85	96	131 *
20	S92.05133	SAMPLE	89	100	130 *
21	S92.05134	SAMPLE	82	96	130 *
22	S92.05135	SAMPLE	95	89	143 *

Average % Surrogate Recovery...	95	103	110
Defined Lower QC Limits (%)....	70	81	74
Defined Upper QC Limits (%)....	121	117	121
Observed Lower QC Limits (%)...	80	99	86
Observed Upper QC Limits (%)...	103	107	134

"* If % Surrogate Recovery is Followed by a "*", it is out of QC Limits.

Reviewed By:

LOS ALAMOS NATIONAL LABORATORY
HEALTH, SAFETY AND ENVIRONMENT DIVISION
HSE-9
SURROGATE RECOVERIES FOR VOLATILES
SOIL

REQUEST #: 12783

NUMBER OF SAMPLES: 5
MATRIX C
ANALYST: TRB
Date: 08/17/92

SURROGATE RECOVERIES

SURROGATE
RECOVERIES IN PERCENT (%)

	SAMPLE NUMBERS	TYPE	d4-1,2-dichloro-ethene	toluene-(d8)	4-bromo-fluoro-benzene
1	S92.05136	SAMPLE	103	101	109
2	S92.05137	SAMPLE	97	99	97
3	S92.05368	SAMPLE	99	101	96
4	S92.05367	SAMPLE	98	105	100
5	b92.05370	BLANK	101	106	106
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Average % Surrogate Recovery...	99	102	102
Defined Lower QC Limits (%)....	70	81	74
Defined Upper QC Limits (%)....	121	117	121
Observed Lower QC Limits (%)...	97	99	96
Observed Upper QC Limits (%)...	103	106	109

"*" If % Surrogate Recovery is Followed by a "*", it is out of QC Limits.

Reviewed By:

LOS ALAMOS NATIONAL LABORATORY
HEALTH, SAFETY AND ENVIRONMENT DIVISION
HSE-9
MATRIX SPIKE RECOVERIES FOR VOLATILES

			DRY WT/VOL (G or ML)	DILUTION FACTOR	AMOUNT SPIKED	LOQ (UG/KG OR UG/
REQUEST #:	12783					
NUMBER OF SAMPLES:	22					
SPIKE ID: (STARTS M OR E)	m92.04876	SPIKE	0.715	1	350	5
SPIKE DUP ID: (STARTS D OR F)	d92.04876	SPIKE-DUP	0.922	1	271	5
RAW DATA WITH:	---					
ANALYST:	TRB					

	SPIKE REC.	SPIKE-DUP REC.	SPIKE % REC.	SPIKE-DUP % REC.	RPD	LOW. REC. LIM.	UPP. REC. LIM.	RPD LIM.
,1-Dichlorethene	200	120	57%*	44%*	26%*	59	172	22
Benzene	330	170	94%	63%*	40%*	66	142	21
Trichlorethene	160	77	46%*	28%*	47%*	62	137	24
Toluene	320	170	92%	63%	37%*	59	139	21
Chlorobenzene	270	160	77%	59%*	27%*	60	133	21

8/6/92

'" If % Matrix Recovery is Followed by a "*", it is out of QC Limits.

Reviewed By:

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: EAJ on 18-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05120 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 4/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-S	92.05120	67641	40.	12.	UG/KG	8/18/92		Acetone
53-SC-G1-S	92.05120	71432	< 5.		UG/KG	8/18/92		Benzene
53-SC-G1-S	92.05120	108861	< 5.		UG/KG	8/18/92		Bromobenzene
53-SC-G1-S	92.05120	74975	< 5.		UG/KG	8/18/92		Bromochloromethane
53-SC-G1-S	92.05120	75274	< 5.		UG/KG	8/18/92		Bromodichloromethane
53-SC-G1-S	92.05120	75252	< 5.		UG/KG	8/18/92		Bromoform
53-SC-G1-S	92.05120	74839	< 10.		UG/KG	8/18/92		Bromomethane
53-SC-G1-S	92.05120	78933	< 20.		UG/KG	8/18/92		2-Butanone
53-SC-G1-S	92.05120	104518	< 5.		UG/KG	8/18/92		n-Butylbenzene
53-SC-G1-S	92.05120	135988	< 5.		UG/KG	8/18/92		sec-Butylbenzene
53-SC-G1-S	92.05120	98066	< 5.		UG/KG	8/18/92		tert-Butylbenzene
53-SC-G1-S	92.05120	75150	< 5.		UG/KG	8/18/92		Carbon disulfide
53-SC-G1-S	92.05120	56235	< 5.		UG/KG	8/18/92		Carbon tetrachloride
53-SC-G1-S	92.05120	108907	< 5.		UG/KG	8/18/92		Chlorobenzene
53-SC-G1-S	92.05120	124481	< 5.		UG/KG	8/18/92		Chlorodibromomethane
53-SC-G1-S	92.05120	75003	< 10.		UG/KG	8/18/92		Chloroethane
53-SC-G1-S	92.05120	67663	< 5.		UG/KG	8/18/92		Chloroform
53-SC-G1-S	92.05120	74873	< 10.		UG/KG	8/18/92		Chloromethane
53-SC-G1-S	92.05120	95498	< 5.		UG/KG	8/18/92		o-Chlorotoluene
53-SC-G1-S	92.05120	106434	< 5.		UG/KG	8/18/92		p-Chlorotoluene
53-SC-G1-S	92.05120	96128	< 10.		UG/KG	8/18/92		1,2-Dibromo-3-chloropropane
53-SC-G1-S	92.05120	106934	< 5.		UG/KG	8/18/92		1,2-Dibromoethane
53-SC-G1-S	92.05120	74953	< 5.		UG/KG	8/18/92		Dibromomethane
53-SC-G1-S	92.05120	95501	< 5.		UG/KG	8/18/92		o-Dichlorobenzene (1,2)
53-SC-G1-S	92.05120	541731	< 5.		UG/KG	8/18/92		m-Dichlorobenzene (1,3)
53-SC-G1-S	92.05120	106467	< 5.		UG/KG	8/18/92		p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-S	92.05120	75718	< 10.		UG/KG	8/18/92		Dichlorodifluoromethane
53-SC-G1-S	92.05120	75343	< 5.		UG/KG	8/18/92		1,1-Dichloroethane
53-SC-G1-S	92.05120	107062	< 5.		UG/KG	8/18/92		1,2-Dichloroethane
53-SC-G1-S	92.05120	75354	< 5.		UG/KG	8/18/92		1,1-Dichloroethene
53-SC-G1-S	92.05120	156605	< 5.		UG/KG	8/18/92		trans-1,2-Dichloroethene
53-SC-G1-S	92.05120	156592	< 5.		UG/KG	8/18/92		cis-1,2-Dichloroethylene
53-SC-G1-S	92.05120	78875	< 5.		UG/KG	8/18/92		1,2-Dichloropropane
53-SC-G1-S	92.05120	142289	< 5.		UG/KG	8/18/92		1,3-Dichloropropane
53-SC-G1-S	92.05120	594207	< 5.		UG/KG	8/18/92		2,2-Dichloropropane
53-SC-G1-S	92.05120	563586	< 5.		UG/KG	8/18/92		1,1-Dichloropropene
53-SC-G1-S	92.05120	10061015	< 5.		UG/KG	8/18/92		cis-1,3-Dichloropropene
53-SC-G1-S	92.05120	10061026	< 5.		UG/KG	8/18/92		trans-1,3-Dichloropropene
53-SC-G1-S	92.05120	100414	< 5.		UG/KG	8/18/92		Ethylbenzene
53-SC-G1-S	92.05120	106934	< 5.		UG/KG	8/18/92		Ethylene dibromide
53-SC-G1-S	92.05120	591786	< 20.		UG/KG	8/18/92		2-Hexanone
53-SC-G1-S	92.05120	98828	< 5.		UG/KG	8/18/92		Isopropylbenzene
53-SC-G1-S	92.05120	99876	< 5.		UG/KG	8/18/92		4-Isopropyltoluene
53-SC-G1-S	92.05120	74884	< 5.		UG/KG	8/18/92		Methyl iodide
53-SC-G1-S	92.05120	108101	< 20.		UG/KG	8/18/92		4-Methyl-2-pentanone
53-SC-G1-S	92.05120	75092	< 5.		UG/KG	8/18/92		Methylene chloride
53-SC-G1-S	92.05120	103651	< 5.		UG/KG	8/18/92		Propylbenzene
53-SC-G1-S	92.05120	100425	< 5.		UG/KG	8/18/92		Styrene
53-SC-G1-S	92.05120	630206	< 5.		UG/KG	8/18/92		1,1,1,2-Tetrachloroethane
53-SC-G1-S	92.05120	79345	< 5.		UG/KG	8/18/92		1,1,2,2-Tetrachloroethane
53-SC-G1-S	92.05120	127184	< 5.		UG/KG	8/18/92		Tetrachloroethylene
53-SC-G1-S	92.05120	108883	< 5.		UG/KG	8/18/92		Toluene
53-SC-G1-S	92.05120	76131	< 5.		UG/KG	8/18/92		1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-G1-S	92.05120	71556	< 5.		UG/KG	8/18/92		1,1,1-Trichloroethane
53-SC-G1-S	92.05120	79005	< 5.		UG/KG	8/18/92		1,1,2-Trichloroethane
53-SC-G1-S	92.05120	79016	< 5.		UG/KG	8/18/92		Trichloroethene
53-SC-G1-S	92.05120	75694	< 5.		UG/KG	8/18/92		Trichlorofluoromethane
53-SC-G1-S	92.05120	96184	< 5.		UG/KG	8/18/92		1,2,3-Trichloropropane
53-SC-G1-S	92.05120	95636	< 5.		UG/KG	8/18/92		1,2,4-Trimethylbenzene
53-SC-G1-S	92.05120	108678	< 5.		UG/KG	8/18/92		1,3,5-Trimethylbenzene
53-SC-G1-S	92.05120	108054	< 10.		UG/KG	8/18/92		Vinyl acetate
53-SC-G1-S	92.05120	75014	< 10.		UG/KG	8/18/92		Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-S	92.05120	1330207	< 5.		UG/KG	8/18/92		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05120

none

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: EAJ on 18-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05121 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 4/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-H1-S-Q	92.05121	67641	< 20.		UG/KG	8/18/92		Acetone
53-SC-H1-S-Q	92.05121	71432	< 5.		UG/KG	8/18/92		Benzene
53-SC-H1-S-Q	92.05121	108861	< 5.		UG/KG	8/18/92		Bromobenzene
53-SC-H1-S-Q	92.05121	74975	< 5.		UG/KG	8/18/92		Bromochloromethane
53-SC-H1-S-Q	92.05121	75274	< 5.		UG/KG	8/18/92		Bromodichloromethane
53-SC-H1-S-Q	92.05121	75252	< 5.		UG/KG	8/18/92		Bromoform
53-SC-H1-S-Q	92.05121	74839	< 10.		UG/KG	8/18/92		Bromomethane
53-SC-H1-S-Q	92.05121	78933	< 20.		UG/KG	8/18/92		2-Butanone
53-SC-H1-S-Q	92.05121	104518	< 5.		UG/KG	8/18/92		n-Butylbenzene
53-SC-H1-S-Q	92.05121	135988	< 5.		UG/KG	8/18/92		sec-Butylbenzene
53-SC-H1-S-Q	92.05121	98066	< 5.		UG/KG	8/18/92		tert-Butylbenzene
53-SC-H1-S-Q	92.05121	75150	< 5.		UG/KG	8/18/92		Carbon disulfide
53-SC-H1-S-Q	92.05121	56235	< 5.		UG/KG	8/18/92		Carbon tetrachloride
53-SC-H1-S-Q	92.05121	108907	< 5.		UG/KG	8/18/92		Chlorobenzene
53-SC-H1-S-Q	92.05121	124481	< 5.		UG/KG	8/18/92		Chlorodibromomethane
53-SC-H1-S-Q	92.05121	75003	< 10.		UG/KG	8/18/92		Chloroethane
53-SC-H1-S-Q	92.05121	67663	< 5.		UG/KG	8/18/92		Chloroform
53-SC-H1-S-Q	92.05121	74873	< 10.		UG/KG	8/18/92		Chloromethane
53-SC-H1-S-Q	92.05121	95498	< 5.		UG/KG	8/18/92		o-Chlorotoluene
53-SC-H1-S-Q	92.05121	106434	< 5.		UG/KG	8/18/92		p-Chlorotoluene
53-SC-H1-S-Q	92.05121	96128	< 10.		UG/KG	8/18/92		1,2-Dibromo-3-chloropropane
53-SC-H1-S-Q	92.05121	106934	< 5.		UG/KG	8/18/92		1,2-Dibromoethane
53-SC-H1-S-Q	92.05121	74953	< 5.		UG/KG	8/18/92		Dibromomethane
53-SC-H1-S-Q	92.05121	95501	< 5.		UG/KG	8/18/92		o-Dichlorobenzene (1,2)
53-SC-H1-S-Q	92.05121	541731	< 5.		UG/KG	8/18/92		m-Dichlorobenzene (1,3)
53-SC-H1-S-Q	92.05121	106467	< 5.		UG/KG	8/18/92		p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-H1-S-Q	92.05121	75718	< 10.		UG/KG	8/18/92		Dichlorodifluoromethane
53-SC-H1-S-Q	92.05121	75343	< 5.		UG/KG	8/18/92		1,1-Dichloroethane
53-SC-H1-S-Q	92.05121	107062	< 5.		UG/KG	8/18/92		1,2-Dichloroethane
53-SC-H1-S-Q	92.05121	75354	< 5.		UG/KG	8/18/92		1,1-Dichloroethene
53-SC-H1-S-Q	92.05121	156605	< 5.		UG/KG	8/18/92		trans-1,2-Dichloroethene
53-SC-H1-S-Q	92.05121	156592	< 5.		UG/KG	8/18/92		cis-1,2-Dichloroethylene
53-SC-H1-S-Q	92.05121	78875	< 5.		UG/KG	8/18/92		1,2-Dichloropropane
53-SC-H1-S-Q	92.05121	142289	< 5.		UG/KG	8/18/92		1,3-Dichloropropane
53-SC-H1-S-Q	92.05121	594207	< 5.		UG/KG	8/18/92		2,2-Dichloropropane
53-SC-H1-S-Q	92.05121	563586	< 5.		UG/KG	8/18/92		1,1-Dichloropropene
53-SC-H1-S-Q	92.05121	10061015	< 5.		UG/KG	8/18/92		cis-1,3-Dichloropropene
53-SC-H1-S-Q	92.05121	10061026	< 5.		UG/KG	8/18/92		trans-1,3-Dichloropropene
53-SC-H1-S-Q	92.05121	100414	< 5.		UG/KG	8/18/92		Ethylbenzene
53-SC-H1-S-Q	92.05121	106934	< 5.		UG/KG	8/18/92		Ethylene dibromide
53-SC-H1-S-Q	92.05121	591786	< 20.		UG/KG	8/18/92		2-Hexanone
53-SC-H1-S-Q	92.05121	98828	< 5.		UG/KG	8/18/92		Isopropylbenzene
53-SC-H1-S-Q	92.05121	99876	< 5.		UG/KG	8/18/92		4-Isopropyltoluene
53-SC-H1-S-Q	92.05121	74884	< 5.		UG/KG	8/18/92		Methyl iodide
53-SC-H1-S-Q	92.05121	108101	< 20.		UG/KG	8/18/92		4-Methyl-2-pentanone
53-SC-H1-S-Q	92.05121	75092	< 5.		UG/KG	8/18/92		Methylene chloride
53-SC-H1-S-Q	92.05121	103651	< 5.		UG/KG	8/18/92		Propylbenzene
53-SC-H1-S-Q	92.05121	100425	< 5.		UG/KG	8/18/92		Styrene
53-SC-H1-S-Q	92.05121	630206	< 5.		UG/KG	8/18/92		1,1,1,2-Tetrachloroethane
53-SC-H1-S-Q	92.05121	79345	< 5.		UG/KG	8/18/92		1,1,2,2-Tetrachloroethane
53-SC-H1-S-Q	92.05121	127184	< 5.		UG/KG	8/18/92		Tetrachloroethylene
53-SC-H1-S-Q	92.05121	108883	< 5.		UG/KG	8/18/92		Toluene
53-SC-H1-S-Q	92.05121	76131	< 5.		UG/KG	8/18/92		1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-H1-S-Q	92.05121	71556	< 5.		UG/KG	8/18/92		1,1,1-Trichloroethane
53-SC-H1-S-Q	92.05121	79005	< 5.		UG/KG	8/18/92		1,1,2-Trichloroethane
53-SC-H1-S-Q	92.05121	79016	< 5.		UG/KG	8/18/92		Trichloroethene
53-SC-H1-S-Q	92.05121	75694	< 5.		UG/KG	8/18/92		Trichlorofluoromethane
53-SC-H1-S-Q	92.05121	96184	< 5.		UG/KG	8/18/92		1,2,3-Trichloropropane
53-SC-H1-S-Q	92.05121	95636	< 5.		UG/KG	8/18/92		1,2,4-Trimethylbenzene
53-SC-H1-S-Q	92.05121	108678	< 5.		UG/KG	8/18/92		1,3,5-Trimethylbenzene
53-SC-H1-S-Q	92.05121	108054	< 10.		UG/KG	8/18/92		Vinyl acetate
53-SC-H1-S-Q	92.05121	75014	< 10.		UG/KG	8/18/92		Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-H1-S-Q	92.05121	1330207	< 5.		UG/KG	8/18/92		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05121

none

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: EAJ on 18-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3KD

Customer Sample Results, Sample # 92.05122 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 4/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-H1-S	92.05122	67641	< 20.		UG/KG	8/18/92		Acetone
53-SC-H1-S	92.05122	71432	< 5.		UG/KG	8/18/92		Benzene
53-SC-H1-S	92.05122	108861	< 5.		UG/KG	8/18/92		Bromobenzene
53-SC-H1-S	92.05122	74975	< 5.		UG/KG	8/18/92		Bromochloromethane
53-SC-H1-S	92.05122	75274	< 5.		UG/KG	8/18/92		Bromodichloromethane
53-SC-H1-S	92.05122	75252	< 5.		UG/KG	8/18/92		Bromoform
53-SC-H1-S	92.05122	74839	< 10.		UG/KG	8/18/92		Bromomethane
53-SC-H1-S	92.05122	78933	< 20.		UG/KG	8/18/92		2-Butanone
53-SC-H1-S	92.05122	104518	< 5.		UG/KG	8/18/92		n-Butylbenzene
53-SC-H1-S	92.05122	135988	< 5.		UG/KG	8/18/92		sec-Butylbenzene
53-SC-H1-S	92.05122	98066	< 5.		UG/KG	8/18/92		tert-Butylbenzene
53-SC-H1-S	92.05122	75150	< 5.		UG/KG	8/18/92		Carbon disulfide
53-SC-H1-S	92.05122	56235	< 5.		UG/KG	8/18/92		Carbon tetrachloride
53-SC-H1-S	92.05122	108907	< 5.		UG/KG	8/18/92		Chlorobenzene
53-SC-H1-S	92.05122	124481	< 5.		UG/KG	8/18/92		Chlorodibromomethane
53-SC-H1-S	92.05122	75003	< 10.		UG/KG	8/18/92		Chloroethane
53-SC-H1-S	92.05122	67663	< 5.		UG/KG	8/18/92		Chloroform
53-SC-H1-S	92.05122	74873	< 10.		UG/KG	8/18/92		Chloromethane
53-SC-H1-S	92.05122	95498	< 5.		UG/KG	8/18/92		o-Chlorotoluene
53-SC-H1-S	92.05122	106434	< 5.		UG/KG	8/18/92		p-Chlorotoluene
53-SC-H1-S	92.05122	96128	< 10.		UG/KG	8/18/92		1,2-Dibromo-3-chloropropane
53-SC-H1-S	92.05122	106934	< 5.		UG/KG	8/18/92		1,2-Dibromoethane
53-SC-H1-S	92.05122	74953	< 5.		UG/KG	8/18/92		Dibromomethane
53-SC-H1-S	92.05122	95501	< 5.		UG/KG	8/18/92		o-Dichlorobenzene (1,2)
53-SC-H1-S	92.05122	541731	< 5.		UG/KG	8/18/92		m-Dichlorobenzene (1,3)
53-SC-H1-S	92.05122	106467	< 5.		UG/KG	8/18/92		p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-H1-S	92.05122	75718	< 10.		UG/KG	8/18/92		Dichlorodifluoromethane
53-SC-H1-S	92.05122	75343	< 5.		UG/KG	8/18/92		1,1-Dichloroethane
53-SC-H1-S	92.05122	107062	< 5.		UG/KG	8/18/92		1,2-Dichloroethane
53-SC-H1-S	92.05122	75354	< 5.		UG/KG	8/18/92		1,1-Dichloroethene
53-SC-H1-S	92.05122	156605	< 5.		UG/KG	8/18/92		trans-1,2-Dichloroethene
53-SC-H1-S	92.05122	156592	< 5.		UG/KG	8/18/92		cis-1,2-Dichloroethylene
53-SC-H1-S	92.05122	78875	< 5.		UG/KG	8/18/92		1,2-Dichloropropane
53-SC-H1-S	92.05122	142289	< 5.		UG/KG	8/18/92		1,3-Dichloropropane
53-SC-H1-S	92.05122	594207	< 5.		UG/KG	8/18/92		2,2-Dichloropropane
53-SC-H1-S	92.05122	563586	< 5.		UG/KG	8/18/92		1,1-Dichloropropene
53-SC-H1-S	92.05122	10061015	< 5.		UG/KG	8/18/92		cis-1,3-Dichloropropene
53-SC-H1-S	92.05122	10061026	< 5.		UG/KG	8/18/92		trans-1,3-Dichloropropene
53-SC-H1-S	92.05122	100414	< 5.		UG/KG	8/18/92		Ethylbenzene
53-SC-H1-S	92.05122	106934	< 5.		UG/KG	8/18/92		Ethylene dibromide
53-SC-H1-S	92.05122	591786	< 20.		UG/KG	8/18/92		2-Hexanone
53-SC-H1-S	92.05122	98828	< 5.		UG/KG	8/18/92		Isopropylbenzene
53-SC-H1-S	92.05122	99876	< 5.		UG/KG	8/18/92		4-Isopropyltoluene
53-SC-H1-S	92.05122	74884	< 5.		UG/KG	8/18/92		Methyl iodide
53-SC-H1-S	92.05122	108101	< 20.		UG/KG	8/18/92		4-Methyl-2-pentanone
53-SC-H1-S	92.05122	75092	< 5.		UG/KG	8/18/92		Methylene chloride
53-SC-H1-S	92.05122	103651	< 5.		UG/KG	8/18/92		Propylbenzene
53-SC-H1-S	92.05122	100425	< 5.		UG/KG	8/18/92		Styrene
53-SC-H1-S	92.05122	630206	< 5.		UG/KG	8/18/92		1,1,1,2-Tetrachloroethane
53-SC-H1-S	92.05122	79345	< 5.		UG/KG	8/18/92		1,1,2,2-Tetrachloroethane
53-SC-H1-S	92.05122	127184	< 5.		UG/KG	8/18/92		Tetrachloroethylene
53-SC-H1-S	92.05122	108883	< 5.		UG/KG	8/18/92		Toluene
53-SC-H1-S	92.05122	76131	< 5.		UG/KG	8/18/92		1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-H1-S	92.05122	71556	7.8	2.34	UG/KG	8/18/92		1,1,1-Trichloroethane
53-SC-H1-S	92.05122	79005	< 5.		UG/KG	8/18/92		1,1,2-Trichloroethane
53-SC-H1-S	92.05122	79016	< 5.		UG/KG	8/18/92		Trichloroethene
53-SC-H1-S	92.05122	75694	< 5.		UG/KG	8/18/92		Trichlorofluoromethane
53-SC-H1-S	92.05122	96184	< 5.		UG/KG	8/18/92		1,2,3-Trichloropropane
53-SC-H1-S	92.05122	95636	< 5.		UG/KG	8/18/92		1,2,4-Trimethylbenzene
53-SC-H1-S	92.05122	108678	< 5.		UG/KG	8/18/92		1,3,5-Trimethylbenzene
53-SC-H1-S	92.05122	108054	< 10.		UG/KG	8/18/92		Vinyl acetate
53-SC-H1-S	92.05122	75014	< 10.		UG/KG	8/18/92		Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-H1-S	92.05122	1330207	< 5.		UG/KG	8/18/92		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05122

none

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: EAJ on 18-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05123 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 4/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-I1-S	92.05123	67641	< 20.		UG/KG	8/18/92		Acetone
53-SC-I1-S	92.05123	71432	< 5.		UG/KG	8/18/92		Benzene
53-SC-I1-S	92.05123	108861	< 5.		UG/KG	8/18/92		Bromobenzene
53-SC-I1-S	92.05123	74975	< 5.		UG/KG	8/18/92		Bromochloromethane
53-SC-I1-S	92.05123	75274	< 5.		UG/KG	8/18/92		Bromodichloromethane
53-SC-I1-S	92.05123	75252	< 5.		UG/KG	8/18/92		Bromoform
53-SC-I1-S	92.05123	74839	< 10.		UG/KG	8/18/92		Bromomethane
53-SC-I1-S	92.05123	78933	< 20.		UG/KG	8/18/92		2-Butanone
53-SC-I1-S	92.05123	104518	< 5.		UG/KG	8/18/92		n-Butylbenzene
53-SC-I1-S	92.05123	135988	< 5.		UG/KG	8/18/92		sec-Butylbenzene
53-SC-I1-S	92.05123	98066	< 5.		UG/KG	8/18/92		tert-Butylbenzene
53-SC-I1-S	92.05123	75150	< 5.		UG/KG	8/18/92		Carbon disulfide
53-SC-I1-S	92.05123	56235	< 5.		UG/KG	8/18/92		Carbon tetrachloride
53-SC-I1-S	92.05123	108907	< 5.		UG/KG	8/18/92		Chlorobenzene
53-SC-I1-S	92.05123	124481	< 5.		UG/KG	8/18/92		Chlorodibromomethane
53-SC-I1-S	92.05123	75003	< 10.		UG/KG	8/18/92		Chloroethane
53-SC-I1-S	92.05123	67663	< 5.		UG/KG	8/18/92		Chloroform
53-SC-I1-S	92.05123	74873	< 10.		UG/KG	8/18/92		Chloromethane
53-SC-I1-S	92.05123	95498	< 5.		UG/KG	8/18/92		o-Chlorotoluene
53-SC-I1-S	92.05123	106434	< 5.		UG/KG	8/18/92		p-Chlorotoluene
53-SC-I1-S	92.05123	96128	< 10.		UG/KG	8/18/92		1,2-Dibromo-3-chloropropane
53-SC-I1-S	92.05123	106934	< 5.		UG/KG	8/18/92		1,2-Dibromoethane
53-SC-I1-S	92.05123	74953	< 5.		UG/KG	8/18/92		Dibromomethane
53-SC-I1-S	92.05123	95501	< 5.		UG/KG	8/18/92		o-Dichlorobenzene (1,2)
53-SC-I1-S	92.05123	541731	< 5.		UG/KG	8/18/92		m-Dichlorobenzene (1,3)
53-SC-I1-S	92.05123	106467	< 5.		UG/KG	8/18/92		p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-I1-S	92.05123	75718	< 10.		UG/KG	8/18/92		Dichlorodifluoromethane
53-SC-I1-S	92.05123	75343	< 5.		UG/KG	8/18/92		1,1-Dichloroethane
53-SC-I1-S	92.05123	107062	< 5.		UG/KG	8/18/92		1,2-Dichloroethane
53-SC-I1-S	92.05123	75354	< 5.		UG/KG	8/18/92		1,1-Dichloroethene
53-SC-I1-S	92.05123	156605	< 5.		UG/KG	8/18/92		trans-1,2-Dichloroethene
53-SC-I1-S	92.05123	156592	< 5.		UG/KG	8/18/92		cis-1,2-Dichloroethylene
53-SC-I1-S	92.05123	78875	< 5.		UG/KG	8/18/92		1,2-Dichloropropane
53-SC-I1-S	92.05123	142289	< 5.		UG/KG	8/18/92		1,3-Dichloropropane
53-SC-I1-S	92.05123	594207	< 5.		UG/KG	8/18/92		2,2-Dichloropropane
53-SC-I1-S	92.05123	563586	< 5.		UG/KG	8/18/92		1,1-Dichloropropene
53-SC-I1-S	92.05123	10061015	< 5.		UG/KG	8/18/92		cis-1,3-Dichloropropene
53-SC-I1-S	92.05123	10061026	< 5.		UG/KG	8/18/92		trans-1,3-Dichloropropene
53-SC-I1-S	92.05123	100414	< 5.		UG/KG	8/18/92		Ethylbenzene
53-SC-I1-S	92.05123	106934	< 5.		UG/KG	8/18/92		Ethylene dibromide
53-SC-I1-S	92.05123	591786	< 20.		UG/KG	8/18/92		2-Hexanone
53-SC-I1-S	92.05123	98828	< 5.		UG/KG	8/18/92		Isopropylbenzene
53-SC-I1-S	92.05123	99876	< 5.		UG/KG	8/18/92		4-Isopropyltoluene
53-SC-I1-S	92.05123	74884	< 5.		UG/KG	8/18/92		Methyl iodide
53-SC-I1-S	92.05123	108101	< 20.		UG/KG	8/18/92		4-Methyl-2-pentanone
53-SC-I1-S	92.05123	75092	< 5.		UG/KG	8/18/92		Methylene chloride
53-SC-I1-S	92.05123	103651	< 5.		UG/KG	8/18/92		Propylbenzene
53-SC-I1-S	92.05123	100425	< 5.		UG/KG	8/18/92		Styrene
53-SC-I1-S	92.05123	630206	< 5.		UG/KG	8/18/92		1,1,1,2-Tetrachloroethane
53-SC-I1-S	92.05123	79345	< 5.		UG/KG	8/18/92		1,1,2,2-Tetrachloroethane
53-SC-I1-S	92.05123	127184	< 5.		UG/KG	8/18/92		Tetrachloroethylene
53-SC-I1-S	92.05123	108883	< 5.		UG/KG	8/18/92		Toluene
53-SC-I1-S	92.05123	76131	< 5.		UG/KG	8/18/92		1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-I1-S	92.05123	71556	16.	4.8	UG/KG	8/18/92		1,1,1-Trichloroethane
53-SC-I1-S	92.05123	79005	< 5.		UG/KG	8/18/92		1,1,2-Trichloroethane
53-SC-I1-S	92.05123	79016	< 5.		UG/KG	8/18/92		Trichloroethene
53-SC-I1-S	92.05123	75694	< 5.		UG/KG	8/18/92		Trichlorofluoromethane
53-SC-I1-S	92.05123	96184	< 5.		UG/KG	8/18/92		1,2,3-Trichloropropane
53-SC-I1-S	92.05123	95636	< 5.		UG/KG	8/18/92		1,2,4-Trimethylbenzene
53-SC-I1-S	92.05123	108678	< 5.		UG/KG	8/18/92		1,3,5-Trimethylbenzene
53-SC-I1-S	92.05123	108054	< 10.		UG/KG	8/18/92		Vinyl acetate
53-SC-I1-S	92.05123	75014	< 10.		UG/KG	8/18/92		Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-I1-S	92.05123	1330207	< 5.		UG/KG	8/18/92		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05123

none

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: EAJ on 18-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05124 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/29/92 Date Analyzed: 4/29/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-J1-S	92.05124	67641	< 20.		UG/KG	8/18/92		Acetone
53-SC-J1-S	92.05124	71432	< 5.		UG/KG	8/18/92		Benzene
53-SC-J1-S	92.05124	108861	< 5.		UG/KG	8/18/92		Bromobenzene
53-SC-J1-S	92.05124	74975	< 5.		UG/KG	8/18/92		Bromochloromethane
53-SC-J1-S	92.05124	75274	< 5.		UG/KG	8/18/92		Bromodichloromethane
53-SC-J1-S	92.05124	75252	< 5.		UG/KG	8/18/92		Bromoform
53-SC-J1-S	92.05124	74839	< 10.		UG/KG	8/18/92		Bromomethane
53-SC-J1-S	92.05124	78933	< 20.		UG/KG	8/18/92		2-Butanone
53-SC-J1-S	92.05124	104518	< 5.		UG/KG	8/18/92		n-Butylbenzene
53-SC-J1-S	92.05124	135988	< 5.		UG/KG	8/18/92		sec-Butylbenzene
53-SC-J1-S	92.05124	98066	< 5.		UG/KG	8/18/92		tert-Butylbenzene
53-SC-J1-S	92.05124	75150	< 5.		UG/KG	8/18/92		Carbon disulfide
53-SC-J1-S	92.05124	56235	< 5.		UG/KG	8/18/92		Carbon tetrachloride
53-SC-J1-S	92.05124	108907	< 5.		UG/KG	8/18/92		Chlorobenzene
53-SC-J1-S	92.05124	124481	< 5.		UG/KG	8/18/92		Chlorodibromomethane
53-SC-J1-S	92.05124	75003	< 10.		UG/KG	8/18/92		Chloroethane
53-SC-J1-S	92.05124	67663	< 5.		UG/KG	8/18/92		Chloroform
53-SC-J1-S	92.05124	74873	< 10.		UG/KG	8/18/92		Chloromethane
53-SC-J1-S	92.05124	95498	< 5.		UG/KG	8/18/92		o-Chlorotoluene
53-SC-J1-S	92.05124	106434	< 5.		UG/KG	8/18/92		p-Chlorotoluene
53-SC-J1-S	92.05124	96128	< 10.		UG/KG	8/18/92		1,2-Dibromo-3-chloropropane
53-SC-J1-S	92.05124	106934	< 5.		UG/KG	8/18/92		1,2-Dibromoethane
53-SC-J1-S	92.05124	74953	< 5.		UG/KG	8/18/92		Dibromomethane
53-SC-J1-S	92.05124	95501	< 5.		UG/KG	8/18/92		o-Dichlorobenzene (1,2)
53-SC-J1-S	92.05124	541731	< 5.		UG/KG	8/18/92		m-Dichlorobenzene (1,3)
53-SC-J1-S	92.05124	106467	< 5.		UG/KG	8/18/92		p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-J1-S	92.05124	75718	< 10.		UG/KG	8/18/92		Dichlorodifluoromethane
53-SC-J1-S	92.05124	75343	< 5.		UG/KG	8/18/92		1,1-Dichloroethane
53-SC-J1-S	92.05124	107062	< 5.		UG/KG	8/18/92		1,2-Dichloroethane
53-SC-J1-S	92.05124	75354	< 5.		UG/KG	8/18/92		1,1-Dichloroethene
53-SC-J1-S	92.05124	156605	< 5.		UG/KG	8/18/92		trans-1,2-Dichloroethene
53-SC-J1-S	92.05124	156592	< 5.		UG/KG	8/18/92		cis-1,2-Dichloroethylene
53-SC-J1-S	92.05124	78875	< 5.		UG/KG	8/18/92		1,2-Dichloropropane
53-SC-J1-S	92.05124	142289	< 5.		UG/KG	8/18/92		1,3-Dichloropropane
53-SC-J1-S	92.05124	594207	< 5.		UG/KG	8/18/92		2,2-Dichloropropane
53-SC-J1-S	92.05124	563586	< 5.		UG/KG	8/18/92		1,1-Dichloropropene
53-SC-J1-S	92.05124	10061015	< 5.		UG/KG	8/18/92		cis-1,3-Dichloropropene
53-SC-J1-S	92.05124	10061026	< 5.		UG/KG	8/18/92		trans-1,3-Dichloropropene
53-SC-J1-S	92.05124	100414	< 5.		UG/KG	8/18/92		Ethylbenzene
53-SC-J1-S	92.05124	106934	< 5.		UG/KG	8/18/92		Ethylene dibromide
53-SC-J1-S	92.05124	591786	< 20.		UG/KG	8/18/92		2-Hexanone
53-SC-J1-S	92.05124	98828	< 5.		UG/KG	8/18/92		Isopropylbenzene
53-SC-J1-S	92.05124	99876	< 5.		UG/KG	8/18/92		4-Isopropyltoluene
53-SC-J1-S	92.05124	74884	< 5.		UG/KG	8/18/92		Methyl iodide
53-SC-J1-S	92.05124	108101	< 20.		UG/KG	8/18/92		4-Methyl-2-pentanone
53-SC-J1-S	92.05124	75092	< 5.		UG/KG	8/18/92		Methylene chloride
53-SC-J1-S	92.05124	103651	< 5.		UG/KG	8/18/92		Propylbenzene
53-SC-J1-S	92.05124	100425	< 5.		UG/KG	8/18/92		Styrene
53-SC-J1-S	92.05124	630206	< 5.		UG/KG	8/18/92		1,1,1,2-Tetrachloroethane
53-SC-J1-S	92.05124	79345	< 5.		UG/KG	8/18/92		1,1,2,2-Tetrachloroethane
53-SC-J1-S	92.05124	127184	< 5.		UG/KG	8/18/92		Tetrachloroethylene
53-SC-J1-S	92.05124	108883	< 5.		UG/KG	8/18/92		Toluene
53-SC-J1-S	92.05124	76131	< 5.		UG/KG	8/18/92		1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-J1-S	92.05124	71556	5.3	1.59	UG/KG	8/18/92		1,1,1-Trichloroethane
53-SC-J1-S	92.05124	79005	< 5.		UG/KG	8/18/92		1,1,2-Trichloroethane
53-SC-J1-S	92.05124	79016	< 5.		UG/KG	8/18/92		Trichloroethene
53-SC-J1-S	92.05124	75694	< 5.		UG/KG	8/18/92		Trichlorofluoromethane
53-SC-J1-S	92.05124	96184	< 5.		UG/KG	8/18/92		1,2,3-Trichloropropane
53-SC-J1-S	92.05124	95636	< 5.		UG/KG	8/18/92		1,2,4-Trimethylbenzene
53-SC-J1-S	92.05124	108678	< 5.		UG/KG	8/18/92		1,3,5-Trimethylbenzene
53-SC-J1-S	92.05124	108054	< 10.		UG/KG	8/18/92		Vinyl acetate
53-SC-J1-S	92.05124	75014	< 10.		UG/KG	8/18/92		Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-J1-S	92.05124	1330207	< 5.		UG/KG	8/18/92		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05124

none

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: EAJ on 18-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05125 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/29/92 Date Analyzed: 4/29/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-K1-S	92.05125	67641	< 20.		UG/KG	8/18/92		Acetone
53-SC-K1-S	92.05125	71432	< 5.		UG/KG	8/18/92		Benzene
53-SC-K1-S	92.05125	108861	< 5.		UG/KG	8/18/92		Bromobenzene
53-SC-K1-S	92.05125	74975	< 5.		UG/KG	8/18/92		Bromochloromethane
53-SC-K1-S	92.05125	75274	< 5.		UG/KG	8/18/92		Bromodichloromethane
53-SC-K1-S	92.05125	75252	< 5.		UG/KG	8/18/92		Bromoform
53-SC-K1-S	92.05125	74839	< 10.		UG/KG	8/18/92		Bromomethane
53-SC-K1-S	92.05125	78933	< 20.		UG/KG	8/18/92		2-Butanone
53-SC-K1-S	92.05125	104518	< 5.		UG/KG	8/18/92		n-Butylbenzene
53-SC-K1-S	92.05125	135988	< 5.		UG/KG	8/18/92		sec-Butylbenzene
53-SC-K1-S	92.05125	98066	< 5.		UG/KG	8/18/92		tert-Butylbenzene
53-SC-K1-S	92.05125	75150	< 5.		UG/KG	8/18/92		Carbon disulfide
53-SC-K1-S	92.05125	56235	< 5.		UG/KG	8/18/92		Carbon tetrachloride
53-SC-K1-S	92.05125	108907	< 5.		UG/KG	8/18/92		Chlorobenzene
53-SC-K1-S	92.05125	124481	< 5.		UG/KG	8/18/92		Chlorodibromomethane
53-SC-K1-S	92.05125	75003	< 10.		UG/KG	8/18/92		Chloroethane
53-SC-K1-S	92.05125	67663	< 5.		UG/KG	8/18/92		Chloroform
53-SC-K1-S	92.05125	74873	< 10.		UG/KG	8/18/92		Chloromethane
53-SC-K1-S	92.05125	95498	< 5.		UG/KG	8/18/92		o-Chlorotoluene
53-SC-K1-S	92.05125	106434	< 5.		UG/KG	8/18/92		p-Chlorotoluene
53-SC-K1-S	92.05125	96128	< 10.		UG/KG	8/18/92		1,2-Dibromo-3-chloropropane
53-SC-K1-S	92.05125	106934	< 5.		UG/KG	8/18/92		1,2-Dibromoethane
53-SC-K1-S	92.05125	74953	< 5.		UG/KG	8/18/92		Dibromomethane
53-SC-K1-S	92.05125	95501	< 5.		UG/KG	8/18/92		o-Dichlorobenzene (1,2)
53-SC-K1-S	92.05125	541731	< 5.		UG/KG	8/18/92		m-Dichlorobenzene (1,3)
53-SC-K1-S	92.05125	106467	< 5.		UG/KG	8/18/92		p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-K1-S	92.05125	75718	< 10.		UG/KG	8/18/92		Dichlorodifluoromethane
53-SC-K1-S	92.05125	75343	< 5.		UG/KG	8/18/92		1,1-Dichloroethane
53-SC-K1-S	92.05125	107062	< 5.		UG/KG	8/18/92		1,2-Dichloroethane
53-SC-K1-S	92.05125	75354	< 5.		UG/KG	8/18/92		1,1-Dichloroethene
53-SC-K1-S	92.05125	156605	< 5.		UG/KG	8/18/92		trans-1,2-Dichloroethene
53-SC-K1-S	92.05125	156592	< 5.		UG/KG	8/18/92		cis-1,2-Dichloroethylene
53-SC-K1-S	92.05125	78875	< 5.		UG/KG	8/18/92		1,2-Dichloropropane
53-SC-K1-S	92.05125	142289	< 5.		UG/KG	8/18/92		1,3-Dichloropropane
53-SC-K1-S	92.05125	594207	< 5.		UG/KG	8/18/92		2,2-Dichloropropane
53-SC-K1-S	92.05125	563586	< 5.		UG/KG	8/18/92		1,1-Dichloropropene
53-SC-K1-S	92.05125	10061015	< 5.		UG/KG	8/18/92		cis-1,3-Dichloropropene
53-SC-K1-S	92.05125	10061026	< 5.		UG/KG	8/18/92		trans-1,3-Dichloropropene
53-SC-K1-S	92.05125	100414	< 5.		UG/KG	8/18/92		Ethylbenzene
53-SC-K1-S	92.05125	106934	< 5.		UG/KG	8/18/92		Ethylene dibromide
53-SC-K1-S	92.05125	591786	< 20.		UG/KG	8/18/92		2-Hexanone
53-SC-K1-S	92.05125	98828	< 5.		UG/KG	8/18/92		Isopropylbenzene
53-SC-K1-S	92.05125	99876	< 5.		UG/KG	8/18/92		4-Isopropyltoluene
53-SC-K1-S	92.05125	74884	< 5.		UG/KG	8/18/92		Methyl iodide
53-SC-K1-S	92.05125	108101	< 20.		UG/KG	8/18/92		4-Methyl-2-pentanone
53-SC-K1-S	92.05125	75092	< 5.		UG/KG	8/18/92		Methylene chloride
53-SC-K1-S	92.05125	103651	< 5.		UG/KG	8/18/92		Propylbenzene
53-SC-K1-S	92.05125	100425	< 5.		UG/KG	8/18/92		Styrene
53-SC-K1-S	92.05125	630206	< 5.		UG/KG	8/18/92		1,1,1,2-Tetrachloroethane
53-SC-K1-S	92.05125	79345	< 5.		UG/KG	8/18/92		1,1,2,2-Tetrachloroethane
53-SC-K1-S	92.05125	127184	< 5.		UG/KG	8/18/92		Tetrachloroethylene
53-SC-K1-S	92.05125	108883	< 5.		UG/KG	8/18/92		Toluene
53-SC-K1-S	92.05125	76131	< 5.		UG/KG	8/18/92		1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-K1-S	92.05125	71556	< 5.		UG/KG	8/18/92		1,1,1-Trichloroethane
53-SC-K1-S	92.05125	79005	< 5.		UG/KG	8/18/92		1,1,2-Trichloroethane
53-SC-K1-S	92.05125	79016	< 5.		UG/KG	8/18/92		Trichloroethene
53-SC-K1-S	92.05125	75694	< 5.		UG/KG	8/18/92		Trichlorofluoromethane
53-SC-K1-S	92.05125	96184	< 5.		UG/KG	8/18/92		1,2,3-Trichloropropane
53-SC-K1-S	92.05125	95636	< 5.		UG/KG	8/18/92		1,2,4-Trimethylbenzene
53-SC-K1-S	92.05125	108678	< 5.		UG/KG	8/18/92		1,3,5-Trimethylbenzene
53-SC-K1-S	92.05125	108054	< 10.		UG/KG	8/18/92		Vinyl acetate
53-SC-K1-S	92.05125	75014	< 10.		UG/KG	8/18/92		Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-K1-S	92.05125	1330207	< 5.		UG/KG	8/18/92		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05125

none

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: EAJ on 18-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05126 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/29/92 Date Analyzed: 4/29/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-L1-S	92.05126	67641	< 20.		UG/KG	8/18/92		Acetone
53-SC-L1-S	92.05126	71432	< 5.		UG/KG	8/18/92		Benzene
53-SC-L1-S	92.05126	108861	< 5.		UG/KG	8/18/92		Bromobenzene
53-SC-L1-S	92.05126	74975	< 5.		UG/KG	8/18/92		Bromochloromethane
53-SC-L1-S	92.05126	75274	< 5.		UG/KG	8/18/92		Bromodichloromethane
53-SC-L1-S	92.05126	75252	< 5.		UG/KG	8/18/92		Bromoform
53-SC-L1-S	92.05126	74839	< 10.		UG/KG	8/18/92		Bromomethane
53-SC-L1-S	92.05126	78933	< 20.		UG/KG	8/18/92		2-Butanone
53-SC-L1-S	92.05126	104518	< 5.		UG/KG	8/18/92		n-Butylbenzene
53-SC-L1-S	92.05126	135988	< 5.		UG/KG	8/18/92		sec-Butylbenzene
53-SC-L1-S	92.05126	98066	< 5.		UG/KG	8/18/92		tert-Butylbenzene
53-SC-L1-S	92.05126	75150	< 5.		UG/KG	8/18/92		Carbon disulfide
53-SC-L1-S	92.05126	56235	< 5.		UG/KG	8/18/92		Carbon tetrachloride
53-SC-L1-S	92.05126	108907	< 5.		UG/KG	8/18/92		Chlorobenzene
53-SC-L1-S	92.05126	124481	< 5.		UG/KG	8/18/92		Chlorodibromomethane
53-SC-L1-S	92.05126	75003	< 10.		UG/KG	8/18/92		Chloroethane
53-SC-L1-S	92.05126	67663	< 5.		UG/KG	8/18/92		Chloroform
53-SC-L1-S	92.05126	74873	< 10.		UG/KG	8/18/92		Chloromethane
53-SC-L1-S	92.05126	95498	< 5.		UG/KG	8/18/92		o-Chlorotoluene
53-SC-L1-S	92.05126	106434	< 5.		UG/KG	8/18/92		p-Chlorotoluene
53-SC-L1-S	92.05126	96128	< 10.		UG/KG	8/18/92		1,2-Dibromo-3-chloropropane
53-SC-L1-S	92.05126	106934	< 5.		UG/KG	8/18/92		1,2-Dibromoethane
53-SC-L1-S	92.05126	74953	< 5.		UG/KG	8/18/92		Dibromomethane
53-SC-L1-S	92.05126	95501	< 5.		UG/KG	8/18/92		o-Dichlorobenzene (1,2)
53-SC-L1-S	92.05126	541731	< 5.		UG/KG	8/18/92		m-Dichlorobenzene (1,3)
53-SC-L1-S	92.05126	106467	< 5.		UG/KG	8/18/92		p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-L1-S	92.05126	75718	< 10.		UG/KG	8/18/92		Dichlorodifluoromethane
53-SC-L1-S	92.05126	75343	< 5.		UG/KG	8/18/92		1,1-Dichloroethane
53-SC-L1-S	92.05126	107062	< 5.		UG/KG	8/18/92		1,2-Dichloroethane
53-SC-L1-S	92.05126	75354	< 5.		UG/KG	8/18/92		1,1-Dichloroethene
53-SC-L1-S	92.05126	156605	< 5.		UG/KG	8/18/92		trans-1,2-Dichloroethene
53-SC-L1-S	92.05126	156592	< 5.		UG/KG	8/18/92		cis-1,2-Dichloroethylene
53-SC-L1-S	92.05126	78875	< 5.		UG/KG	8/18/92		1,2-Dichloropropane
53-SC-L1-S	92.05126	142289	< 5.		UG/KG	8/18/92		1,3-Dichloropropane
53-SC-L1-S	92.05126	594207	< 5.		UG/KG	8/18/92		2,2-Dichloropropane
53-SC-L1-S	92.05126	563586	< 5.		UG/KG	8/18/92		1,1-Dichloropropene
53-SC-L1-S	92.05126	10061015	< 5.		UG/KG	8/18/92		cis-1,3-Dichloropropene
53-SC-L1-S	92.05126	10061026	< 5.		UG/KG	8/18/92		trans-1,3-Dichloropropene
53-SC-L1-S	92.05126	100414	< 5.		UG/KG	8/18/92		Ethylbenzene
53-SC-L1-S	92.05126	106934	< 5.		UG/KG	8/18/92		Ethylene dibromide
53-SC-L1-S	92.05126	591786	< 20.		UG/KG	8/18/92		2-Hexanone
53-SC-L1-S	92.05126	98828	< 5.		UG/KG	8/18/92		Isopropylbenzene
53-SC-L1-S	92.05126	99876	< 5.		UG/KG	8/18/92		4-Isopropyltoluene
53-SC-L1-S	92.05126	74884	< 5.		UG/KG	8/18/92		Methyl iodide
53-SC-L1-S	92.05126	108101	< 20.		UG/KG	8/18/92		4-Methyl-2-pentanone
53-SC-L1-S	92.05126	75092	< 5.		UG/KG	8/18/92		Methylene chloride
53-SC-L1-S	92.05126	103651	< 5.		UG/KG	8/18/92		Propylbenzene
53-SC-L1-S	92.05126	100425	< 5.		UG/KG	8/18/92		Styrene
53-SC-L1-S	92.05126	630206	< 5.		UG/KG	8/18/92		1,1,1,2-Tetrachloroethane
53-SC-L1-S	92.05126	79345	< 5.		UG/KG	8/18/92		1,1,2,2-Tetrachloroethane
53-SC-L1-S	92.05126	127184	< 5.		UG/KG	8/18/92		Tetrachloroethylene
53-SC-L1-S	92.05126	108883	< 5.		UG/KG	8/18/92		Toluene
53-SC-L1-S	92.05126	76131	< 5.		UG/KG	8/18/92		1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-L1-S	92.05126	71556	6.5	1.95	UG/KG	8/18/92		1,1,1-Trichloroethane
53-SC-L1-S	92.05126	79005	< 5.		UG/KG	8/18/92		1,1,2-Trichloroethane
53-SC-L1-S	92.05126	79016	< 5.		UG/KG	8/18/92		Trichloroethene
53-SC-L1-S	92.05126	75694	< 5.		UG/KG	8/18/92		Trichlorofluoromethane
53-SC-L1-S	92.05126	96184	< 5.		UG/KG	8/18/92		1,2,3-Trichloropropane
53-SC-L1-S	92.05126	95636	< 5.		UG/KG	8/18/92		1,2,4-Trimethylbenzene
53-SC-L1-S	92.05126	108678	< 5.		UG/KG	8/18/92		1,3,5-Trimethylbenzene
53-SC-L1-S	92.05126	108054	< 10.		UG/KG	8/18/92		Vinyl acetate
53-SC-L1-S	92.05126	75014	< 10.		UG/KG	8/18/92		Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-L1-S	92.05126	1330207	< 5.		UG/KG	8/18/92		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05126

none

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: EAJ on 18-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05127 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/30/92 Date Analyzed: 4/30/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-M1-S	92.05127	67641	< 20.		UG/KG	8/18/92		Acetone
53-SC-M1-S	92.05127	71432	< 5.		UG/KG	8/18/92		Benzene
53-SC-M1-S	92.05127	108861	< 5.		UG/KG	8/18/92		Bromobenzene
53-SC-M1-S	92.05127	74975	< 5.		UG/KG	8/18/92		Bromochloromethane
53-SC-M1-S	92.05127	75274	< 5.		UG/KG	8/18/92		Bromodichloromethane
53-SC-M1-S	92.05127	75252	< 5.		UG/KG	8/18/92		Bromoform
53-SC-M1-S	92.05127	74839	< 10.		UG/KG	8/18/92		Bromomethane
53-SC-M1-S	92.05127	78933	< 20.		UG/KG	8/18/92		2-Butanone
53-SC-M1-S	92.05127	104518	< 5.		UG/KG	8/18/92		n-Butylbenzene
53-SC-M1-S	92.05127	135988	< 5.		UG/KG	8/18/92		sec-Butylbenzene
53-SC-M1-S	92.05127	98066	< 5.		UG/KG	8/18/92		tert-Butylbenzene
53-SC-M1-S	92.05127	75150	< 5.		UG/KG	8/18/92		Carbon disulfide
53-SC-M1-S	92.05127	56235	< 5.		UG/KG	8/18/92		Carbon tetrachloride
53-SC-M1-S	92.05127	108907	< 5.		UG/KG	8/18/92		Chlorobenzene
53-SC-M1-S	92.05127	124481	< 5.		UG/KG	8/18/92		Chlorodibromomethane
53-SC-M1-S	92.05127	75003	< 10.		UG/KG	8/18/92		Chloroethane
53-SC-M1-S	92.05127	67663	< 5.		UG/KG	8/18/92		Chloroform
53-SC-M1-S	92.05127	74873	< 10.		UG/KG	8/18/92		Chloromethane
53-SC-M1-S	92.05127	95498	< 5.		UG/KG	8/18/92		o-Chlorotoluene
53-SC-M1-S	92.05127	106434	< 5.		UG/KG	8/18/92		p-Chlorotoluene
53-SC-M1-S	92.05127	96128	< 10.		UG/KG	8/18/92		1,2-Dibromo-3-chloropropane
53-SC-M1-S	92.05127	106934	< 5.		UG/KG	8/18/92		1,2-Dibromoethane
53-SC-M1-S	92.05127	74953	< 5.		UG/KG	8/18/92		Dibromomethane
53-SC-M1-S	92.05127	95501	< 5.		UG/KG	8/18/92		o-Dichlorobenzene (1,2)
53-SC-M1-S	92.05127	541731	< 5.		UG/KG	8/18/92		m-Dichlorobenzene (1,3)
53-SC-M1-S	92.05127	106467	< 5.		UG/KG	8/18/92		p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-M1-S	92.05127	75718	< 10.		UG/KG	8/18/92		Dichlorodifluoromethane
53-SC-M1-S	92.05127	75343	< 5.		UG/KG	8/18/92		1,1-Dichloroethane
53-SC-M1-S	92.05127	107062	< 5.		UG/KG	8/18/92		1,2-Dichloroethane
53-SC-M1-S	92.05127	75354	< 5.		UG/KG	8/18/92		1,1-Dichloroethene
53-SC-M1-S	92.05127	156605	< 5.		UG/KG	8/18/92		trans-1,2-Dichloroethene
53-SC-M1-S	92.05127	156592	< 5.		UG/KG	8/18/92		cis-1,2-Dichloroethylene
53-SC-M1-S	92.05127	78875	< 5.		UG/KG	8/18/92		1,2-Dichloropropane
53-SC-M1-S	92.05127	142289	< 5.		UG/KG	8/18/92		1,3-Dichloropropane
53-SC-M1-S	92.05127	594207	< 5.		UG/KG	8/18/92		2,2-Dichloropropane
53-SC-M1-S	92.05127	563586	< 5.		UG/KG	8/18/92		1,1-Dichloropropene
53-SC-M1-S	92.05127	10061015	< 5.		UG/KG	8/18/92		cis-1,3-Dichloropropene
53-SC-M1-S	92.05127	10061026	< 5.		UG/KG	8/18/92		trans-1,3-Dichloropropene
53-SC-M1-S	92.05127	100414	< 5.		UG/KG	8/18/92		Ethylbenzene
53-SC-M1-S	92.05127	106934	< 5.		UG/KG	8/18/92		Ethylene dibromide
53-SC-M1-S	92.05127	591786	< 20.		UG/KG	8/18/92		2-Hexanone
53-SC-M1-S	92.05127	98828	< 5.		UG/KG	8/18/92		Isopropylbenzene
53-SC-M1-S	92.05127	99876	< 5.		UG/KG	8/18/92		4-Isopropyltoluene
53-SC-M1-S	92.05127	74884	< 5.		UG/KG	8/18/92		Methyl iodide
53-SC-M1-S	92.05127	108101	< 20.		UG/KG	8/18/92		4-Methyl-2-pentanone
53-SC-M1-S	92.05127	75092	< 5.		UG/KG	8/18/92		Methylene chloride
53-SC-M1-S	92.05127	103651	< 5.		UG/KG	8/18/92		Propylbenzene
53-SC-M1-S	92.05127	100425	< 5.		UG/KG	8/18/92		Styrene
53-SC-M1-S	92.05127	630206	< 5.		UG/KG	8/18/92		1,1,1,2-Tetrachloroethane
53-SC-M1-S	92.05127	79345	< 5.		UG/KG	8/18/92		1,1,2,2-Tetrachloroethane
53-SC-M1-S	92.05127	127184	< 5.		UG/KG	8/18/92		Tetrachloroethylene
53-SC-M1-S	92.05127	108883	< 5.		UG/KG	8/18/92		Toluene
53-SC-M1-S	92.05127	76131	< 5.		UG/KG	8/18/92		1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-M1-S	92.05127	71556	< 5.		UG/KG	8/18/92		1,1,1-Trichloroethane
53-SC-M1-S	92.05127	79005	< 5.		UG/KG	8/18/92		1,1,2-Trichloroethane
53-SC-M1-S	92.05127	79016	< 5.		UG/KG	8/18/92		Trichloroethene
53-SC-M1-S	92.05127	75694	< 5.		UG/KG	8/18/92		Trichlorofluoromethane
53-SC-M1-S	92.05127	96184	< 5.		UG/KG	8/18/92		1,2,3-Trichloropropane
53-SC-M1-S	92.05127	95636	< 5.		UG/KG	8/18/92		1,2,4-Trimethylbenzene
53-SC-M1-S	92.05127	108678	< 5.		UG/KG	8/18/92		1,3,5-Trimethylbenzene
53-SC-M1-S	92.05127	108054	< 10.		UG/KG	8/18/92		Vinyl acetate
53-SC-M1-S	92.05127	75014	< 10.		UG/KG	8/18/92		Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-M1-S	92.05127	1330207	< 5.		UG/KG	8/18/92		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05127

none

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: EAJ on 18-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05128 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/29/92 Date Analyzed: 4/29/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-N1-S	92.05128	67641	38.	11.4	UG/KG	8/18/92		Acetone
53-SC-N1-S	92.05128	71432	< 5.		UG/KG	8/18/92		Benzene
53-SC-N1-S	92.05128	108861	< 5.		UG/KG	8/18/92		Bromobenzene
53-SC-N1-S	92.05128	74975	< 5.		UG/KG	8/18/92		Bromochloromethane
53-SC-N1-S	92.05128	75274	< 5.		UG/KG	8/18/92		Bromodichloromethane
53-SC-N1-S	92.05128	75252	< 5.		UG/KG	8/18/92		Bromoform
53-SC-N1-S	92.05128	74839	< 10.		UG/KG	8/18/92		Bromomethane
53-SC-N1-S	92.05128	78933	< 20.		UG/KG	8/18/92		2-Butanone
53-SC-N1-S	92.05128	104518	< 5.		UG/KG	8/18/92		n-Butylbenzene
53-SC-N1-S	92.05128	135988	< 5.		UG/KG	8/18/92		sec-Butylbenzene
53-SC-N1-S	92.05128	98066	< 5.		UG/KG	8/18/92		tert-Butylbenzene
53-SC-N1-S	92.05128	75150	< 5.		UG/KG	8/18/92		Carbon disulfide
53-SC-N1-S	92.05128	56235	< 5.		UG/KG	8/18/92		Carbon tetrachloride
53-SC-N1-S	92.05128	108907	< 5.		UG/KG	8/18/92		Chlorobenzene
53-SC-N1-S	92.05128	124481	< 5.		UG/KG	8/18/92		Chlorodibromomethane
53-SC-N1-S	92.05128	75003	< 10.		UG/KG	8/18/92		Chloroethane
53-SC-N1-S	92.05128	67663	< 5.		UG/KG	8/18/92		Chloroform
53-SC-N1-S	92.05128	74873	< 10.		UG/KG	8/18/92		Chloromethane
53-SC-N1-S	92.05128	95498	< 5.		UG/KG	8/18/92		o-Chlorotoluene
53-SC-N1-S	92.05128	106434	< 5.		UG/KG	8/18/92		p-Chlorotoluene
53-SC-N1-S	92.05128	96128	< 10.		UG/KG	8/18/92		1,2-Dibromo-3-chloropropane
53-SC-N1-S	92.05128	106934	< 5.		UG/KG	8/18/92		1,2-Dibromoethane
53-SC-N1-S	92.05128	74953	< 5.		UG/KG	8/18/92		Dibromomethane
53-SC-N1-S	92.05128	95501	< 5.		UG/KG	8/18/92		o-Dichlorobenzene (1,2)
53-SC-N1-S	92.05128	541731	< 5.		UG/KG	8/18/92		m-Dichlorobenzene (1,3)
53-SC-N1-S	92.05128	106467	< 5.		UG/KG	8/18/92		p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-N1-S	92.05128	75718	< 10.		UG/KG	8/18/92		Dichlorodifluoromethane
53-SC-N1-S	92.05128	75343	< 5.		UG/KG	8/18/92		1,1-Dichloroethane
53-SC-N1-S	92.05128	107062	< 5.		UG/KG	8/18/92		1,2-Dichloroethane
53-SC-N1-S	92.05128	75354	< 5.		UG/KG	8/18/92		1,1-Dichloroethene
53-SC-N1-S	92.05128	156605	< 5.		UG/KG	8/18/92		trans-1,2-Dichloroethene
53-SC-N1-S	92.05128	156592	< 5.		UG/KG	8/18/92		cis-1,2-Dichloroethylene
53-SC-N1-S	92.05128	78875	< 5.		UG/KG	8/18/92		1,2-Dichloropropane
53-SC-N1-S	92.05128	142289	< 5.		UG/KG	8/18/92		1,3-Dichloropropane
53-SC-N1-S	92.05128	594207	< 5.		UG/KG	8/18/92		2,2-Dichloropropane
53-SC-N1-S	92.05128	563586	< 5.		UG/KG	8/18/92		1,1-Dichloropropene
53-SC-N1-S	92.05128	10061015	< 5.		UG/KG	8/18/92		cis-1,3-Dichloropropene
53-SC-N1-S	92.05128	10061026	< 5.		UG/KG	8/18/92		trans-1,3-Dichloropropene
53-SC-N1-S	92.05128	100414	< 5.		UG/KG	8/18/92		Ethylbenzene
53-SC-N1-S	92.05128	106934	< 5.		UG/KG	8/18/92		Ethylene dibromide
53-SC-N1-S	92.05128	591786	< 20.		UG/KG	8/18/92		2-Hexanone
53-SC-N1-S	92.05128	98828	< 5.		UG/KG	8/18/92		Isopropylbenzene
53-SC-N1-S	92.05128	99876	< 5.		UG/KG	8/18/92		4-Isopropyltoluene
53-SC-N1-S	92.05128	74884	< 5.		UG/KG	8/18/92		Methyl iodide
53-SC-N1-S	92.05128	108101	< 20.		UG/KG	8/18/92		4-Methyl-2-pentanone
53-SC-N1-S	92.05128	75092	< 5.		UG/KG	8/18/92		Methylene chloride
53-SC-N1-S	92.05128	103651	< 5.		UG/KG	8/18/92		Propylbenzene
53-SC-N1-S	92.05128	100425	< 5.		UG/KG	8/18/92		Styrene
53-SC-N1-S	92.05128	630206	< 5.		UG/KG	8/18/92		1,1,1,2-Tetrachloroethane
53-SC-N1-S	92.05128	79345	< 5.		UG/KG	8/18/92		1,1,2,2-Tetrachloroethane
53-SC-N1-S	92.05128	127184	< 5.		UG/KG	8/18/92		Tetrachloroethylene
53-SC-N1-S	92.05128	108883	< 5.		UG/KG	8/18/92		Toluene
53-SC-N1-S	92.05128	76131	< 5.		UG/KG	8/18/92		1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-N1-S	92.05128	71556	< 5.		UG/KG	8/18/92		1,1,1-Trichloroethane
53-SC-N1-S	92.05128	79005	< 5.		UG/KG	8/18/92		1,1,2-Trichloroethane
53-SC-N1-S	92.05128	79016	< 5.		UG/KG	8/18/92		Trichloroethene
53-SC-N1-S	92.05128	75694	< 5.		UG/KG	8/18/92		Trichlorofluoromethane
53-SC-N1-S	92.05128	96184	< 5.		UG/KG	8/18/92		1,2,3-Trichloropropane
53-SC-N1-S	92.05128	95636	< 5.		UG/KG	8/18/92		1,2,4-Trimethylbenzene
53-SC-N1-S	92.05128	108678	< 5.		UG/KG	8/18/92		1,3,5-Trimethylbenzene
53-SC-N1-S	92.05128	108054	< 10.		UG/KG	8/18/92		Vinyl acetate
53-SC-N1-S	92.05128	75014	< 10.		UG/KG	8/18/92		Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-N1-S	92.05128	1330207	< 5.		UG/KG	8/18/92		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05128

none

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: EAJ on 18-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05129 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 4/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-01-S	92.05129	67641	< 20.		UG/KG	8/18/92		Acetone
53-SC-01-S	92.05129	71432	< 5.		UG/KG	8/18/92		Benzene
53-SC-01-S	92.05129	108861	< 5.		UG/KG	8/18/92		Bromobenzene
53-SC-01-S	92.05129	74975	< 5.		UG/KG	8/18/92		Bromochloromethane
53-SC-01-S	92.05129	75274	< 5.		UG/KG	8/18/92		Bromodichloromethane
53-SC-01-S	92.05129	75252	< 5.		UG/KG	8/18/92		Bromoform
53-SC-01-S	92.05129	74839	< 10.		UG/KG	8/18/92		Bromomethane
53-SC-01-S	92.05129	78933	< 20.		UG/KG	8/18/92		2-Butanone
53-SC-01-S	92.05129	104518	< 5.		UG/KG	8/18/92		n-Butylbenzene
53-SC-01-S	92.05129	135988	< 5.		UG/KG	8/18/92		sec-Butylbenzene
53-SC-01-S	92.05129	98066	< 5.		UG/KG	8/18/92		tert-Butylbenzene
53-SC-01-S	92.05129	75150	< 5.		UG/KG	8/18/92		Carbon disulfide
53-SC-01-S	92.05129	56235	< 5.		UG/KG	8/18/92		Carbon tetrachloride
53-SC-01-S	92.05129	108907	< 5.		UG/KG	8/18/92		Chlorobenzene
53-SC-01-S	92.05129	124481	< 5.		UG/KG	8/18/92		Chlorodibromomethane
53-SC-01-S	92.05129	75003	< 10.		UG/KG	8/18/92		Chloroethane
53-SC-01-S	92.05129	67663	< 5.		UG/KG	8/18/92		Chloroform
53-SC-01-S	92.05129	74873	< 10.		UG/KG	8/18/92		Chloromethane
53-SC-01-S	92.05129	95498	< 5.		UG/KG	8/18/92		o-Chlorotoluene
53-SC-01-S	92.05129	106434	< 5.		UG/KG	8/18/92		p-Chlorotoluene
53-SC-01-S	92.05129	96128	< 10.		UG/KG	8/18/92		1,2-Dibromo-3-chloropropane
53-SC-01-S	92.05129	106934	< 5.		UG/KG	8/18/92		1,2-Dibromoethane
53-SC-01-S	92.05129	74953	< 5.		UG/KG	8/18/92		Dibromomethane
53-SC-01-S	92.05129	95501	< 5.		UG/KG	8/18/92		o-Dichlorobenzene (1,2)
53-SC-01-S	92.05129	541731	< 5.		UG/KG	8/18/92		m-Dichlorobenzene (1,3)
53-SC-01-S	92.05129	106467	< 5.		UG/KG	8/18/92		p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-01-S	92.05129	75718	< 10.		UG/KG	8/18/92		Dichlorodifluoromethane
53-SC-01-S	92.05129	75343	< 5.		UG/KG	8/18/92		1,1-Dichloroethane
53-SC-01-S	92.05129	107062	< 5.		UG/KG	8/18/92		1,2-Dichloroethane
53-SC-01-S	92.05129	75354	< 5.		UG/KG	8/18/92		1,1-Dichloroethene
53-SC-01-S	92.05129	156605	< 5.		UG/KG	8/18/92		trans-1,2-Dichloroethene
53-SC-01-S	92.05129	156592	< 5.		UG/KG	8/18/92		cis-1,2-Dichloroethylene
53-SC-01-S	92.05129	78875	< 5.		UG/KG	8/18/92		1,2-Dichloropropane
53-SC-01-S	92.05129	142289	< 5.		UG/KG	8/18/92		1,3-Dichloropropane
53-SC-01-S	92.05129	594207	< 5.		UG/KG	8/18/92		2,2-Dichloropropane
53-SC-01-S	92.05129	563586	< 5.		UG/KG	8/18/92		1,1-Dichloropropene
53-SC-01-S	92.05129	10061015	< 5.		UG/KG	8/18/92		cis-1,3-Dichloropropene
53-SC-01-S	92.05129	10061026	< 5.		UG/KG	8/18/92		trans-1,3-Dichloropropene
53-SC-01-S	92.05129	100414	< 5.		UG/KG	8/18/92		Ethylbenzene
53-SC-01-S	92.05129	106934	< 5.		UG/KG	8/18/92		Ethylene dibromide
53-SC-01-S	92.05129	591786	< 20.		UG/KG	8/18/92		2-Hexanone
53-SC-01-S	92.05129	98828	< 5.		UG/KG	8/18/92		Isopropylbenzene
53-SC-01-S	92.05129	99876	< 5.		UG/KG	8/18/92		4-Isopropyltoluene
53-SC-01-S	92.05129	74884	< 5.		UG/KG	8/18/92		Methyl iodide
53-SC-01-S	92.05129	108101	< 20.		UG/KG	8/18/92		4-Methyl-2-pentanone
53-SC-01-S	92.05129	75092	< 5.		UG/KG	8/18/92		Methylene chloride
53-SC-01-S	92.05129	103651	< 5.		UG/KG	8/18/92		Propylbenzene
53-SC-01-S	92.05129	100425	< 5.		UG/KG	8/18/92		Styrene
53-SC-01-S	92.05129	630206	< 5.		UG/KG	8/18/92		1,1,1,2-Tetrachloroethane
53-SC-01-S	92.05129	79345	< 5.		UG/KG	8/18/92		1,1,2,2-Tetrachloroethane
53-SC-01-S	92.05129	127184	< 5.		UG/KG	8/18/92		Tetrachloroethylene
53-SC-01-S	92.05129	108883	< 5.		UG/KG	8/18/92		Toluene
53-SC-01-S	92.05129	76131	< 5.		UG/KG	8/18/92		1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-01-S	92.05129	71556	< 5.		UG/KG	8/18/92		1,1,1-Trichloroethane
53-SC-01-S	92.05129	79005	< 5.		UG/KG	8/18/92		1,1,2-Trichloroethane
53-SC-01-S	92.05129	79016	< 5.		UG/KG	8/18/92		Trichloroethene
53-SC-01-S	92.05129	75694	< 5.		UG/KG	8/18/92		Trichlorofluoromethane
53-SC-01-S	92.05129	96184	< 5.		UG/KG	8/18/92		1,2,3-Trichloropropane
53-SC-01-S	92.05129	95636	< 5.		UG/KG	8/18/92		1,2,4-Trimethylbenzene
53-SC-01-S	92.05129	108678	< 5.		UG/KG	8/18/92		1,3,5-Trimethylbenzene
53-SC-01-S	92.05129	108054	< 10.		UG/KG	8/18/92		Vinyl acetate
53-SC-01-S	92.05129	75014	< 10.		UG/KG	8/18/92		Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-01-S	92.05129	1330207	< 5.		UG/KG	8/18/92		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05129

none

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: EAJ on 18-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05130 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 4/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-P1-S	92.05130	67641	< 20.		UG/KG	8/18/92		Acetone
53-SC-P1-S	92.05130	71432	< 5.		UG/KG	8/18/92		Benzene
53-SC-P1-S	92.05130	108861	< 5.		UG/KG	8/18/92		Bromobenzene
53-SC-P1-S	92.05130	74975	< 5.		UG/KG	8/18/92		Bromochloromethane
53-SC-P1-S	92.05130	75274	< 5.		UG/KG	8/18/92		Bromodichloromethane
53-SC-P1-S	92.05130	75252	< 5.		UG/KG	8/18/92		Bromoform
53-SC-P1-S	92.05130	74839	< 10.		UG/KG	8/18/92		Bromomethane
53-SC-P1-S	92.05130	78933	< 20.		UG/KG	8/18/92		2-Butanone
53-SC-P1-S	92.05130	104518	< 5.		UG/KG	8/18/92		n-Butylbenzene
53-SC-P1-S	92.05130	135988	< 5.		UG/KG	8/18/92		sec-Butylbenzene
53-SC-P1-S	92.05130	98066	< 5.		UG/KG	8/18/92		tert-Butylbenzene
53-SC-P1-S	92.05130	75150	< 5.		UG/KG	8/18/92		Carbon disulfide
53-SC-P1-S	92.05130	56235	< 5.		UG/KG	8/18/92		Carbon tetrachloride
53-SC-P1-S	92.05130	108907	< 5.		UG/KG	8/18/92		Chlorobenzene
53-SC-P1-S	92.05130	124481	< 5.		UG/KG	8/18/92		Chlorodibromomethane
53-SC-P1-S	92.05130	75003	< 10.		UG/KG	8/18/92		Chloroethane
53-SC-P1-S	92.05130	67663	< 5.		UG/KG	8/18/92		Chloroform
53-SC-P1-S	92.05130	74873	< 10.		UG/KG	8/18/92		Chloromethane
53-SC-P1-S	92.05130	95498	< 5.		UG/KG	8/18/92		o-Chlorotoluene
53-SC-P1-S	92.05130	106434	< 5.		UG/KG	8/18/92		p-Chlorotoluene
53-SC-P1-S	92.05130	96128	< 10.		UG/KG	8/18/92		1,2-Dibromo-3-chloropropane
53-SC-P1-S	92.05130	106934	< 5.		UG/KG	8/18/92		1,2-Dibromoethane
53-SC-P1-S	92.05130	74953	< 5.		UG/KG	8/18/92		Dibromomethane
53-SC-P1-S	92.05130	95501	< 5.		UG/KG	8/18/92		o-Dichlorobenzene (1,2)
53-SC-P1-S	92.05130	541731	< 5.		UG/KG	8/18/92		m-Dichlorobenzene (1,3)
53-SC-P1-S	92.05130	106467	< 5.		UG/KG	8/18/92		p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-P1-S	92.05130	75718	< 10.		UG/KG	8/18/92		Dichlorodifluoromethane
53-SC-P1-S	92.05130	75343	< 5.		UG/KG	8/18/92		1,1-Dichloroethane
53-SC-P1-S	92.05130	107062	< 5.		UG/KG	8/18/92		1,2-Dichloroethane
53-SC-P1-S	92.05130	75354	< 5.		UG/KG	8/18/92		1,1-Dichloroethene
53-SC-P1-S	92.05130	156605	< 5.		UG/KG	8/18/92		trans-1,2-Dichloroethene
53-SC-P1-S	92.05130	156592	< 5.		UG/KG	8/18/92		cis-1,2-Dichloroethylene
53-SC-P1-S	92.05130	78875	< 5.		UG/KG	8/18/92		1,2-Dichloropropane
53-SC-P1-S	92.05130	142289	< 5.		UG/KG	8/18/92		1,3-Dichloropropane
53-SC-P1-S	92.05130	594207	< 5.		UG/KG	8/18/92		2,2-Dichloropropane
53-SC-P1-S	92.05130	563586	< 5.		UG/KG	8/18/92		1,1-Dichloropropene
53-SC-P1-S	92.05130	10061015	< 5.		UG/KG	8/18/92		cis-1,3-Dichloropropene
53-SC-P1-S	92.05130	10061026	< 5.		UG/KG	8/18/92		trans-1,3-Dichloropropene
53-SC-P1-S	92.05130	100414	< 5.		UG/KG	8/18/92		Ethylbenzene
53-SC-P1-S	92.05130	106934	< 5.		UG/KG	8/18/92		Ethylene dibromide
53-SC-P1-S	92.05130	591786	< 20.		UG/KG	8/18/92		2-Hexanone
53-SC-P1-S	92.05130	98828	< 5.		UG/KG	8/18/92		Isopropylbenzene
53-SC-P1-S	92.05130	99876	< 5.		UG/KG	8/18/92		4-Isopropyltoluene
53-SC-P1-S	92.05130	74884	< 5.		UG/KG	8/18/92		Methyl iodide
53-SC-P1-S	92.05130	108101	< 20.		UG/KG	8/18/92		4-Methyl-2-pentanone
53-SC-P1-S	92.05130	75092	< 5.		UG/KG	8/18/92		Methylene chloride
53-SC-P1-S	92.05130	103651	< 5.		UG/KG	8/18/92		Propylbenzene
53-SC-P1-S	92.05130	100425	< 5.		UG/KG	8/18/92		Styrene
53-SC-P1-S	92.05130	630206	< 5.		UG/KG	8/18/92		1,1,1,2-Tetrachloroethane
53-SC-P1-S	92.05130	79345	< 5.		UG/KG	8/18/92		1,1,2,2-Tetrachloroethane
53-SC-P1-S	92.05130	127184	< 5.		UG/KG	8/18/92		Tetrachloroethylene
53-SC-P1-S	92.05130	108883	< 5.		UG/KG	8/18/92		Toluene
53-SC-P1-S	92.05130	76131	< 5.		UG/KG	8/18/92		1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-P1-S	92.05130	71556	< 5.		UG/KG	8/18/92		1,1,1-Trichloroethane
53-SC-P1-S	92.05130	79005	< 5.		UG/KG	8/18/92		1,1,2-Trichloroethane
53-SC-P1-S	92.05130	79016	< 5.		UG/KG	8/18/92		Trichloroethene
53-SC-P1-S	92.05130	75694	< 5.		UG/KG	8/18/92		Trichlorofluoromethane
53-SC-P1-S	92.05130	96184	< 5.		UG/KG	8/18/92		1,2,3-Trichloropropane
53-SC-P1-S	92.05130	95636	< 5.		UG/KG	8/18/92		1,2,4-Trimethylbenzene
53-SC-P1-S	92.05130	108678	< 5.		UG/KG	8/18/92		1,3,5-Trimethylbenzene
53-SC-P1-S	92.05130	108054	< 10.		UG/KG	8/18/92		Vinyl acetate
53-SC-P1-S	92.05130	75014	< 10.		UG/KG	8/18/92		Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-P1-S	92.05130	1330207	< 5.		UG/KG	8/18/92		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05130

none

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: EAJ on 18-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05131 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 4/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-Q1-S	92.05131	67641	< 20.		UG/KG	8/18/92		Acetone
53-SC-Q1-S	92.05131	71432	< 5.		UG/KG	8/18/92		Benzene
53-SC-Q1-S	92.05131	108861	< 5.		UG/KG	8/18/92		Bromobenzene
53-SC-Q1-S	92.05131	74975	< 5.		UG/KG	8/18/92		Bromochloromethane
53-SC-Q1-S	92.05131	75274	< 5.		UG/KG	8/18/92		Bromodichloromethane
53-SC-Q1-S	92.05131	75252	< 5.		UG/KG	8/18/92		Bromoform
53-SC-Q1-S	92.05131	74839	< 10.		UG/KG	8/18/92		Bromomethane
53-SC-Q1-S	92.05131	78933	< 20.		UG/KG	8/18/92		2-Butanone
53-SC-Q1-S	92.05131	104518	< 5.		UG/KG	8/18/92		n-Butylbenzene
53-SC-Q1-S	92.05131	135988	< 5.		UG/KG	8/18/92		sec-Butylbenzene
53-SC-Q1-S	92.05131	98066	< 5.		UG/KG	8/18/92		tert-Butylbenzene
53-SC-Q1-S	92.05131	75150	< 5.		UG/KG	8/18/92		Carbon disulfide
53-SC-Q1-S	92.05131	56235	< 5.		UG/KG	8/18/92		Carbon tetrachloride
53-SC-Q1-S	92.05131	108907	< 5.		UG/KG	8/18/92		Chlorobenzene
53-SC-Q1-S	92.05131	124481	< 5.		UG/KG	8/18/92		Chlorodibromomethane
53-SC-Q1-S	92.05131	75003	< 10.		UG/KG	8/18/92		Chloroethane
53-SC-Q1-S	92.05131	67663	< 5.		UG/KG	8/18/92		Chloroform
53-SC-Q1-S	92.05131	74873	< 10.		UG/KG	8/18/92		Chloromethane
53-SC-Q1-S	92.05131	95498	< 5.		UG/KG	8/18/92		o-Chlorotoluene
53-SC-Q1-S	92.05131	106434	< 5.		UG/KG	8/18/92		p-Chlorotoluene
53-SC-Q1-S	92.05131	96128	< 10.		UG/KG	8/18/92		1,2-Dibromo-3-chloropropane
53-SC-Q1-S	92.05131	106934	< 5.		UG/KG	8/18/92		1,2-Dibromoethane
53-SC-Q1-S	92.05131	74953	< 5.		UG/KG	8/18/92		Dibromomethane
53-SC-Q1-S	92.05131	95501	< 5.		UG/KG	8/18/92		o-Dichlorobenzene (1,2)
53-SC-Q1-S	92.05131	541731	< 5.		UG/KG	8/18/92		m-Dichlorobenzene (1,3)
53-SC-Q1-S	92.05131	106467	< 5.		UG/KG	8/18/92		p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-Q1-S	92.05131	75718	< 10.		UG/KG	8/18/92		Dichlorodifluoromethane
53-SC-Q1-S	92.05131	75343	< 5.		UG/KG	8/18/92		1,1-Dichloroethane
53-SC-Q1-S	92.05131	107062	< 5.		UG/KG	8/18/92		1,2-Dichloroethane
53-SC-Q1-S	92.05131	75354	< 5.		UG/KG	8/18/92		1,1-Dichloroethene
53-SC-Q1-S	92.05131	156605	< 5.		UG/KG	8/18/92		trans-1,2-Dichloroethene
53-SC-Q1-S	92.05131	156592	< 5.		UG/KG	8/18/92		cis-1,2-Dichloroethylene
53-SC-Q1-S	92.05131	78875	< 5.		UG/KG	8/18/92		1,2-Dichloropropane
53-SC-Q1-S	92.05131	142289	< 5.		UG/KG	8/18/92		1,3-Dichloropropane
53-SC-Q1-S	92.05131	594207	< 5.		UG/KG	8/18/92		2,2-Dichloropropane
53-SC-Q1-S	92.05131	563586	< 5.		UG/KG	8/18/92		1,1-Dichloropropene
53-SC-Q1-S	92.05131	10061015	< 5.		UG/KG	8/18/92		cis-1,3-Dichloropropene
53-SC-Q1-S	92.05131	10061026	< 5.		UG/KG	8/18/92		trans-1,3-Dichloropropene
53-SC-Q1-S	92.05131	100414	< 5.		UG/KG	8/18/92		Ethylbenzene
53-SC-Q1-S	92.05131	106934	< 5.		UG/KG	8/18/92		Ethylene dibromide
53-SC-Q1-S	92.05131	591786	< 20.		UG/KG	8/18/92		2-Hexanone
53-SC-Q1-S	92.05131	98828	< 5.		UG/KG	8/18/92		Isopropylbenzene
53-SC-Q1-S	92.05131	99876	< 5.		UG/KG	8/18/92		4-Isopropyltoluene
53-SC-Q1-S	92.05131	74884	< 5.		UG/KG	8/18/92		Methyl iodide
53-SC-Q1-S	92.05131	108101	< 20.		UG/KG	8/18/92		4-Methyl-2-pentanone
53-SC-Q1-S	92.05131	75092	< 5.		UG/KG	8/18/92		Methylene chloride
53-SC-Q1-S	92.05131	103651	< 5.		UG/KG	8/18/92		Propylbenzene
53-SC-Q1-S	92.05131	100425	< 5.		UG/KG	8/18/92		Styrene
53-SC-Q1-S	92.05131	630206	< 5.		UG/KG	8/18/92		1,1,1,2-Tetrachloroethane
53-SC-Q1-S	92.05131	79345	< 5.		UG/KG	8/18/92		1,1,2,2-Tetrachloroethane
53-SC-Q1-S	92.05131	127184	< 5.		UG/KG	8/18/92		Tetrachloroethylene
53-SC-Q1-S	92.05131	108883	< 5.		UG/KG	8/18/92		Toluene
53-SC-Q1-S	92.05131	76131	< 5.		UG/KG	8/18/92		1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-Q1-S	92.05131	71556	< 5.		UG/KG	8/18/92		1,1,1-Trichloroethane
53-SC-Q1-S	92.05131	79005	< 5.		UG/KG	8/18/92		1,1,2-Trichloroethane
53-SC-Q1-S	92.05131	79016	< 5.		UG/KG	8/18/92		Trichloroethene
53-SC-Q1-S	92.05131	75694	< 5.		UG/KG	8/18/92		Trichlorofluoromethane
53-SC-Q1-S	92.05131	96184	< 5.		UG/KG	8/18/92		1,2,3-Trichloropropane
53-SC-Q1-S	92.05131	95636	< 5.		UG/KG	8/18/92		1,2,4-Trimethylbenzene
53-SC-Q1-S	92.05131	108678	< 5.		UG/KG	8/18/92		1,3,5-Trimethylbenzene
53-SC-Q1-S	92.05131	108054	< 10.		UG/KG	8/18/92		Vinyl acetate
53-SC-Q1-S	92.05131	75014	< 10.		UG/KG	8/18/92		Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-Q1-S	92.05131	1330207	< 5.		UG/KG	8/18/92		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05131

none

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: EAJ on 18-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05132 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 4/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-R1-S	92.05132	67641	< 20.		UG/KG	8/18/92		Acetone
53-SC-R1-S	92.05132	71432	< 5.		UG/KG	8/18/92		Benzene
53-SC-R1-S	92.05132	108861	< 5.		UG/KG	8/18/92		Bromobenzene
53-SC-R1-S	92.05132	74975	< 5.		UG/KG	8/18/92		Bromochloromethane
53-SC-R1-S	92.05132	75274	< 5.		UG/KG	8/18/92		Bromodichloromethane
53-SC-R1-S	92.05132	75252	< 5.		UG/KG	8/18/92		Bromoform
53-SC-R1-S	92.05132	74839	< 10.		UG/KG	8/18/92		Bromomethane
53-SC-R1-S	92.05132	78933	< 20.		UG/KG	8/18/92		2-Butanone
53-SC-R1-S	92.05132	104518	< 5.		UG/KG	8/18/92		n-Butylbenzene
53-SC-R1-S	92.05132	135988	< 5.		UG/KG	8/18/92		sec-Butylbenzene
53-SC-R1-S	92.05132	98066	< 5.		UG/KG	8/18/92		tert-Butylbenzene
53-SC-R1-S	92.05132	75150	< 5.		UG/KG	8/18/92		Carbon disulfide
53-SC-R1-S	92.05132	56235	< 5.		UG/KG	8/18/92		Carbon tetrachloride
53-SC-R1-S	92.05132	108907	< 5.		UG/KG	8/18/92		Chlorobenzene
53-SC-R1-S	92.05132	124481	< 5.		UG/KG	8/18/92		Chlorodibromomethane
53-SC-R1-S	92.05132	75003	< 10.		UG/KG	8/18/92		Chloroethane
53-SC-R1-S	92.05132	67663	< 5.		UG/KG	8/18/92		Chloroform
53-SC-R1-S	92.05132	74873	< 10.		UG/KG	8/18/92		Chloromethane
53-SC-R1-S	92.05132	95498	< 5.		UG/KG	8/18/92		o-Chlorotoluene
53-SC-R1-S	92.05132	106434	< 5.		UG/KG	8/18/92		p-Chlorotoluene
53-SC-R1-S	92.05132	96128	< 10.		UG/KG	8/18/92		1,2-Dibromo-3-chloropropane
53-SC-R1-S	92.05132	106934	< 5.		UG/KG	8/18/92		1,2-Dibromoethane
53-SC-R1-S	92.05132	74953	< 5.		UG/KG	8/18/92		Dibromomethane
53-SC-R1-S	92.05132	95501	< 5.		UG/KG	8/18/92		o-Dichlorobenzene (1,2)
53-SC-R1-S	92.05132	541731	< 5.		UG/KG	8/18/92		m-Dichlorobenzene (1,3)
53-SC-R1-S	92.05132	106467	< 5.		UG/KG	8/18/92		p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-R1-S	92.05132	75718	< 10.		UG/KG	8/18/92		Dichlorodifluoromethane
53-SC-R1-S	92.05132	75343	< 5.		UG/KG	8/18/92		1,1-Dichloroethane
53-SC-R1-S	92.05132	107062	< 5.		UG/KG	8/18/92		1,2-Dichloroethane
53-SC-R1-S	92.05132	75354	< 5.		UG/KG	8/18/92		1,1-Dichloroethene
53-SC-R1-S	92.05132	156605	< 5.		UG/KG	8/18/92		trans-1,2-Dichloroethene
53-SC-R1-S	92.05132	156592	< 5.		UG/KG	8/18/92		cis-1,2-Dichloroethylene
53-SC-R1-S	92.05132	78875	< 5.		UG/KG	8/18/92		1,2-Dichloropropane
53-SC-R1-S	92.05132	142289	< 5.		UG/KG	8/18/92		1,3-Dichloropropane
53-SC-R1-S	92.05132	594207	< 5.		UG/KG	8/18/92		2,2-Dichloropropane
53-SC-R1-S	92.05132	563586	< 5.		UG/KG	8/18/92		1,1-Dichloropropene
53-SC-R1-S	92.05132	10061015	< 5.		UG/KG	8/18/92		cis-1,3-Dichloropropene
53-SC-R1-S	92.05132	10061026	< 5.		UG/KG	8/18/92		trans-1,3-Dichloropropene
53-SC-R1-S	92.05132	100414	< 5.		UG/KG	8/18/92		Ethylbenzene
53-SC-R1-S	92.05132	106934	< 5.		UG/KG	8/18/92		Ethylene dibromide
53-SC-R1-S	92.05132	591786	< 20.		UG/KG	8/18/92		2-Hexanone
53-SC-R1-S	92.05132	98828	< 5.		UG/KG	8/18/92		Isopropylbenzene
53-SC-R1-S	92.05132	99876	< 5.		UG/KG	8/18/92		4-Isopropyltoluene
53-SC-R1-S	92.05132	74884	< 5.		UG/KG	8/18/92		Methyl iodide
53-SC-R1-S	92.05132	108101	< 20.		UG/KG	8/18/92		4-Methyl-2-pentanone
53-SC-R1-S	92.05132	75092	< 5.		UG/KG	8/18/92		Methylene chloride
53-SC-R1-S	92.05132	103651	< 5.		UG/KG	8/18/92		Propylbenzene
53-SC-R1-S	92.05132	100425	< 5.		UG/KG	8/18/92		Styrene
53-SC-R1-S	92.05132	630206	< 5.		UG/KG	8/18/92		1,1,1,2-Tetrachloroethane
53-SC-R1-S	92.05132	79345	< 5.		UG/KG	8/18/92		1,1,2,2-Tetrachloroethane
53-SC-R1-S	92.05132	127184	< 5.		UG/KG	8/18/92		Tetrachloroethylene
53-SC-R1-S	92.05132	108883	< 5.		UG/KG	8/18/92		Toluene
53-SC-R1-S	92.05132	76131	< 5.		UG/KG	8/18/92		1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-R1-S	92.05132	71556	< 5.		UG/KG	8/18/92		1,1,1-Trichloroethane
53-SC-R1-S	92.05132	79005	< 5.		UG/KG	8/18/92		1,1,2-Trichloroethane
53-SC-R1-S	92.05132	79016	< 5.		UG/KG	8/18/92		Trichloroethene
53-SC-R1-S	92.05132	75694	< 5.		UG/KG	8/18/92		Trichlorofluoromethane
53-SC-R1-S	92.05132	96184	< 5.		UG/KG	8/18/92		1,2,3-Trichloropropane
53-SC-R1-S	92.05132	95636	< 5.		UG/KG	8/18/92		1,2,4-Trimethylbenzene
53-SC-R1-S	92.05132	108678	< 5.		UG/KG	8/18/92		1,3,5-Trimethylbenzene
53-SC-R1-S	92.05132	108054	< 10.		UG/KG	8/18/92		Vinyl acetate
53-SC-R1-S	92.05132	75014	< 10.		UG/KG	8/18/92		Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-R1-S	92.05132	1330207	< 5.		UG/KG	8/18/92		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05132

none

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: EAJ on 18-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05133 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 4/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-S1-S	92.05133	67641	< 20.		UG/KG	8/18/92		Acetone
53-SC-S1-S	92.05133	71432	< 5.		UG/KG	8/18/92		Benzene
53-SC-S1-S	92.05133	108861	< 5.		UG/KG	8/18/92		Bromobenzene
53-SC-S1-S	92.05133	74975	< 5.		UG/KG	8/18/92		Bromochloromethane
53-SC-S1-S	92.05133	75274	< 5.		UG/KG	8/18/92		Bromodichloromethane
53-SC-S1-S	92.05133	75252	< 5.		UG/KG	8/18/92		Bromoform
53-SC-S1-S	92.05133	74839	< 10.		UG/KG	8/18/92		Bromomethane
53-SC-S1-S	92.05133	78933	< 20.		UG/KG	8/18/92		2-Butanone
53-SC-S1-S	92.05133	104518	< 5.		UG/KG	8/18/92		n-Butylbenzene
53-SC-S1-S	92.05133	135988	< 5.		UG/KG	8/18/92		sec-Butylbenzene
53-SC-S1-S	92.05133	98066	< 5.		UG/KG	8/18/92		tert-Butylbenzene
53-SC-S1-S	92.05133	75150	< 5.		UG/KG	8/18/92		Carbon disulfide
53-SC-S1-S	92.05133	56235	< 5.		UG/KG	8/18/92		Carbon tetrachloride
53-SC-S1-S	92.05133	108907	< 5.		UG/KG	8/18/92		Chlorobenzene
53-SC-S1-S	92.05133	124481	< 5.		UG/KG	8/18/92		Chlorodibromomethane
53-SC-S1-S	92.05133	75003	< 10.		UG/KG	8/18/92		Chloroethane
53-SC-S1-S	92.05133	67663	< 5.		UG/KG	8/18/92		Chloroform
53-SC-S1-S	92.05133	74873	< 10.		UG/KG	8/18/92		Chloromethane
53-SC-S1-S	92.05133	95498	< 5.		UG/KG	8/18/92		o-Chlorotoluene
53-SC-S1-S	92.05133	106434	< 5.		UG/KG	8/18/92		p-Chlorotoluene
53-SC-S1-S	92.05133	96128	< 10.		UG/KG	8/18/92		1,2-Dibromo-3-chloropropane
53-SC-S1-S	92.05133	106934	< 5.		UG/KG	8/18/92		1,2-Dibromoethane
53-SC-S1-S	92.05133	74953	< 5.		UG/KG	8/18/92		Dibromomethane
53-SC-S1-S	92.05133	95501	< 5.		UG/KG	8/18/92		o-Dichlorobenzene (1,2)
53-SC-S1-S	92.05133	541731	< 5.		UG/KG	8/18/92		m-Dichlorobenzene (1,3)
53-SC-S1-S	92.05133	106467	< 5.		UG/KG	8/18/92		p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-S1-S	92.05133	75718	< 10.		UG/KG	8/18/92		Dichlorodifluoromethane
53-SC-S1-S	92.05133	75343	< 5.		UG/KG	8/18/92		1,1-Dichloroethane
53-SC-S1-S	92.05133	107062	< 5.		UG/KG	8/18/92		1,2-Dichloroethane
53-SC-S1-S	92.05133	75354	< 5.		UG/KG	8/18/92		1,1-Dichloroethene
53-SC-S1-S	92.05133	156605	< 5.		UG/KG	8/18/92		trans-1,2-Dichloroethene
53-SC-S1-S	92.05133	156592	< 5.		UG/KG	8/18/92		cis-1,2-Dichloroethylene
53-SC-S1-S	92.05133	78875	< 5.		UG/KG	8/18/92		1,2-Dichloropropane
53-SC-S1-S	92.05133	142289	< 5.		UG/KG	8/18/92		1,3-Dichloropropane
53-SC-S1-S	92.05133	594207	< 5.		UG/KG	8/18/92		2,2-Dichloropropane
53-SC-S1-S	92.05133	563586	< 5.		UG/KG	8/18/92		1,1-Dichloropropene
53-SC-S1-S	92.05133	10061015	< 5.		UG/KG	8/18/92		cis-1,3-Dichloropropene
53-SC-S1-S	92.05133	10061026	< 5.		UG/KG	8/18/92		trans-1,3-Dichloropropene
53-SC-S1-S	92.05133	100414	< 5.		UG/KG	8/18/92		Ethylbenzene
53-SC-S1-S	92.05133	106934	< 5.		UG/KG	8/18/92		Ethylene dibromide
53-SC-S1-S	92.05133	591786	< 20.		UG/KG	8/18/92		2-Hexanone
53-SC-S1-S	92.05133	98828	< 5.		UG/KG	8/18/92		Isopropylbenzene
53-SC-S1-S	92.05133	99876	< 5.		UG/KG	8/18/92		4-Isopropyltoluene
53-SC-S1-S	92.05133	74884	< 5.		UG/KG	8/18/92		Methyl iodide
53-SC-S1-S	92.05133	108101	< 20.		UG/KG	8/18/92		4-Methyl-2-pentanone
53-SC-S1-S	92.05133	75092	< 5.		UG/KG	8/18/92		Methylene chloride
53-SC-S1-S	92.05133	103651	< 5.		UG/KG	8/18/92		Propylbenzene
53-SC-S1-S	92.05133	100425	< 5.		UG/KG	8/18/92		Styrene
53-SC-S1-S	92.05133	630206	< 5.		UG/KG	8/18/92		1,1,1,2-Tetrachloroethane
53-SC-S1-S	92.05133	79345	< 5.		UG/KG	8/18/92		1,1,2,2-Tetrachloroethane
53-SC-S1-S	92.05133	127184	< 5.		UG/KG	8/18/92		Tetrachloroethylene
53-SC-S1-S	92.05133	108883	< 5.		UG/KG	8/18/92		Toluene
53-SC-S1-S	92.05133	76131	< 5.		UG/KG	8/18/92		1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-S1-S	92.05133	71556	< 5.		UG/KG	8/18/92		1,1,1-Trichloroethane
53-SC-S1-S	92.05133	79005	< 5.		UG/KG	8/18/92		1,1,2-Trichloroethane
53-SC-S1-S	92.05133	79016	< 5.		UG/KG	8/18/92		Trichloroethene
53-SC-S1-S	92.05133	75694	< 5.		UG/KG	8/18/92		Trichlorofluoromethane
53-SC-S1-S	92.05133	96184	< 5.		UG/KG	8/18/92		1,2,3-Trichloropropane
53-SC-S1-S	92.05133	95636	< 5.		UG/KG	8/18/92		1,2,4-Trimethylbenzene
53-SC-S1-S	92.05133	108678	< 5.		UG/KG	8/18/92		1,3,5-Trimethylbenzene
53-SC-S1-S	92.05133	108054	< 10.		UG/KG	8/18/92		Vinyl acetate
53-SC-S1-S	92.05133	75014	< 10.		UG/KG	8/18/92		Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-S1-S	92.05133	1330207	< 5.		UG/KG	8/18/92		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05133

none

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: EAJ on 18-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05134 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 4/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-T1-S	92.05134	67641	< 20.		UG/KG	8/18/92		Acetone
53-SC-T1-S	92.05134	71432	< 5.		UG/KG	8/18/92		Benzene
53-SC-T1-S	92.05134	108861	< 5.		UG/KG	8/18/92		Bromobenzene
53-SC-T1-S	92.05134	74975	< 5.		UG/KG	8/18/92		Bromochloromethane
53-SC-T1-S	92.05134	75274	< 5.		UG/KG	8/18/92		Bromodichloromethane
53-SC-T1-S	92.05134	75252	< 5.		UG/KG	8/18/92		Bromoform
53-SC-T1-S	92.05134	74839	< 10.		UG/KG	8/18/92		Bromomethane
53-SC-T1-S	92.05134	78933	< 20.		UG/KG	8/18/92		2-Butanone
53-SC-T1-S	92.05134	104518	< 5.		UG/KG	8/18/92		n-Butylbenzene
53-SC-T1-S	92.05134	135988	< 5.		UG/KG	8/18/92		sec-Butylbenzene
53-SC-T1-S	92.05134	98066	< 5.		UG/KG	8/18/92		tert-Butylbenzene
53-SC-T1-S	92.05134	75150	< 5.		UG/KG	8/18/92		Carbon disulfide
53-SC-T1-S	92.05134	56235	< 5.		UG/KG	8/18/92		Carbon tetrachloride
53-SC-T1-S	92.05134	108907	< 5.		UG/KG	8/18/92		Chlorobenzene
53-SC-T1-S	92.05134	124481	< 5.		UG/KG	8/18/92		Chlorodibromomethane
53-SC-T1-S	92.05134	75003	< 10.		UG/KG	8/18/92		Chloroethane
53-SC-T1-S	92.05134	67663	< 5.		UG/KG	8/18/92		Chloroform
53-SC-T1-S	92.05134	74873	< 10.		UG/KG	8/18/92		Chloromethane
53-SC-T1-S	92.05134	95498	< 5.		UG/KG	8/18/92		o-Chlorotoluene
53-SC-T1-S	92.05134	106434	< 5.		UG/KG	8/18/92		p-Chlorotoluene
53-SC-T1-S	92.05134	96128	< 10.		UG/KG	8/18/92		1,2-Dibromo-3-chloropropane
53-SC-T1-S	92.05134	106934	< 5.		UG/KG	8/18/92		1,2-Dibromoethane
53-SC-T1-S	92.05134	74953	< 5.		UG/KG	8/18/92		Dibromomethane
53-SC-T1-S	92.05134	95501	< 5.		UG/KG	8/18/92		o-Dichlorobenzene (1,2)
53-SC-T1-S	92.05134	541731	< 5.		UG/KG	8/18/92		m-Dichlorobenzene (1,3)
53-SC-T1-S	92.05134	106467	< 5.		UG/KG	8/18/92		p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-T1-S	92.05134	75718	< 10.		UG/KG	8/18/92		Dichlorodifluoromethane
53-SC-T1-S	92.05134	75343	< 5.		UG/KG	8/18/92		1,1-Dichloroethane
53-SC-T1-S	92.05134	107062	< 5.		UG/KG	8/18/92		1,2-Dichloroethane
53-SC-T1-S	92.05134	75354	< 5.		UG/KG	8/18/92		1,1-Dichloroethene
53-SC-T1-S	92.05134	156605	< 5.		UG/KG	8/18/92		trans-1,2-Dichloroethene
53-SC-T1-S	92.05134	156592	< 5.		UG/KG	8/18/92		cis-1,2-Dichloroethylene
53-SC-T1-S	92.05134	78875	< 5.		UG/KG	8/18/92		1,2-Dichloropropane
53-SC-T1-S	92.05134	142289	< 5.		UG/KG	8/18/92		1,3-Dichloropropane
53-SC-T1-S	92.05134	594207	< 5.		UG/KG	8/18/92		2,2-Dichloropropane
53-SC-T1-S	92.05134	563586	< 5.		UG/KG	8/18/92		1,1-Dichloropropene
53-SC-T1-S	92.05134	10061015	< 5.		UG/KG	8/18/92		cis-1,3-Dichloropropene
53-SC-T1-S	92.05134	10061026	< 5.		UG/KG	8/18/92		trans-1,3-Dichloropropene
53-SC-T1-S	92.05134	100414	< 5.		UG/KG	8/18/92		Ethylbenzene
53-SC-T1-S	92.05134	106934	< 5.		UG/KG	8/18/92		Ethylene dibromide
53-SC-T1-S	92.05134	591786	< 20.		UG/KG	8/18/92		2-Hexanone
53-SC-T1-S	92.05134	98828	< 5.		UG/KG	8/18/92		Isopropylbenzene
53-SC-T1-S	92.05134	99876	< 5.		UG/KG	8/18/92		4-Isopropyltoluene
53-SC-T1-S	92.05134	74884	< 5.		UG/KG	8/18/92		Methyl iodide
53-SC-T1-S	92.05134	108101	< 20.		UG/KG	8/18/92		4-Methyl-2-pentanone
53-SC-T1-S	92.05134	75092	< 5.		UG/KG	8/18/92		Methylene chloride
53-SC-T1-S	92.05134	103651	< 5.		UG/KG	8/18/92		Propylbenzene
53-SC-T1-S	92.05134	100425	< 5.		UG/KG	8/18/92		Styrene
53-SC-T1-S	92.05134	630206	< 5.		UG/KG	8/18/92		1,1,1,2-Tetrachloroethane
53-SC-T1-S	92.05134	79345	< 5.		UG/KG	8/18/92		1,1,2,2-Tetrachloroethane
53-SC-T1-S	92.05134	127184	< 5.		UG/KG	8/18/92		Tetrachloroethylene
53-SC-T1-S	92.05134	108883	< 5.		UG/KG	8/18/92		Toluene
53-SC-T1-S	92.05134	76131	< 5.		UG/KG	8/18/92		1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-T1-S	92.05134	71556	< 5.		UG/KG	8/18/92		1,1,1-Trichloroethane
53-SC-T1-S	92.05134	79005	< 5.		UG/KG	8/18/92		1,1,2-Trichloroethane
53-SC-T1-S	92.05134	79016	< 5.		UG/KG	8/18/92		Trichloroethene
53-SC-T1-S	92.05134	75694	< 5.		UG/KG	8/18/92		Trichlorofluoromethane
53-SC-T1-S	92.05134	96184	< 5.		UG/KG	8/18/92		1,2,3-Trichloropropane
53-SC-T1-S	92.05134	95636	< 5.		UG/KG	8/18/92		1,2,4-Trimethylbenzene
53-SC-T1-S	92.05134	108678	< 5.		UG/KG	8/18/92		1,3,5-Trimethylbenzene
53-SC-T1-S	92.05134	108054	< 10.		UG/KG	8/18/92		Vinyl acetate
53-SC-T1-S	92.05134	75014	< 10.		UG/KG	8/18/92		Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-T1-S	92.05134	1330207	< 5.		UG/KG	8/18/92		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05134

none

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: EAJ on 18-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05135 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 4/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-U1-S	92.05135	67641	680.	204.	UG/KG	8/18/92		Acetone
53-SC-U1-S	92.05135	71432	< 5.		UG/KG	8/18/92		Benzene
53-SC-U1-S	92.05135	108861	< 5.		UG/KG	8/18/92		Bromobenzene
53-SC-U1-S	92.05135	74975	< 5.		UG/KG	8/18/92		Bromochloromethane
53-SC-U1-S	92.05135	75274	< 5.		UG/KG	8/18/92		Bromodichloromethane
53-SC-U1-S	92.05135	75252	< 5.		UG/KG	8/18/92		Bromoform
53-SC-U1-S	92.05135	74839	< 10.		UG/KG	8/18/92		Bromomethane
53-SC-U1-S	92.05135	78933	< 20.		UG/KG	8/18/92		2-Butanone
53-SC-U1-S	92.05135	104518	< 5.		UG/KG	8/18/92		n-Butylbenzene
53-SC-U1-S	92.05135	135988	< 5.		UG/KG	8/18/92		sec-Butylbenzene
53-SC-U1-S	92.05135	98066	< 5.		UG/KG	8/18/92		tert-Butylbenzene
53-SC-U1-S	92.05135	75150	< 5.		UG/KG	8/18/92		Carbon disulfide
53-SC-U1-S	92.05135	56235	< 5.		UG/KG	8/18/92		Carbon tetrachloride
53-SC-U1-S	92.05135	108907	< 5.		UG/KG	8/18/92		Chlorobenzene
53-SC-U1-S	92.05135	124481	< 5.		UG/KG	8/18/92		Chlorodibromomethane
53-SC-U1-S	92.05135	75003	< 10.		UG/KG	8/18/92		Chloroethane
53-SC-U1-S	92.05135	67663	< 5.		UG/KG	8/18/92		Chloroform
53-SC-U1-S	92.05135	74873	< 10.		UG/KG	8/18/92		Chloromethane
53-SC-U1-S	92.05135	95498	< 5.		UG/KG	8/18/92		o-Chlorotoluene
53-SC-U1-S	92.05135	106434	< 5.		UG/KG	8/18/92		p-Chlorotoluene
53-SC-U1-S	92.05135	96128	< 10.		UG/KG	8/18/92		1,2-Dibromo-3-chloropropane
53-SC-U1-S	92.05135	106934	< 5.		UG/KG	8/18/92		1,2-Dibromoethane
53-SC-U1-S	92.05135	74953	< 5.		UG/KG	8/18/92		Dibromomethane
53-SC-U1-S	92.05135	95501	< 5.		UG/KG	8/18/92		o-Dichlorobenzene (1,2)
53-SC-U1-S	92.05135	541731	< 5.		UG/KG	8/18/92		m-Dichlorobenzene (1,3)
53-SC-U1-S	92.05135	106467	< 5.		UG/KG	8/18/92		p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-U1-S	92.05135	75718	< 10.		UG/KG	8/18/92		Dichlorodifluoromethane
53-SC-U1-S	92.05135	75343	< 5.		UG/KG	8/18/92		1,1-Dichloroethane
53-SC-U1-S	92.05135	107062	< 5.		UG/KG	8/18/92		1,2-Dichloroethane
53-SC-U1-S	92.05135	75354	< 5.		UG/KG	8/18/92		1,1-Dichloroethene
53-SC-U1-S	92.05135	156605	< 5.		UG/KG	8/18/92		trans-1,2-Dichloroethene
53-SC-U1-S	92.05135	156592	< 5.		UG/KG	8/18/92		cis-1,2-Dichloroethylene
53-SC-U1-S	92.05135	78875	< 5.		UG/KG	8/18/92		1,2-Dichloropropane
53-SC-U1-S	92.05135	142289	< 5.		UG/KG	8/18/92		1,3-Dichloropropane
53-SC-U1-S	92.05135	594207	< 5.		UG/KG	8/18/92		2,2-Dichloropropane
53-SC-U1-S	92.05135	563586	< 5.		UG/KG	8/18/92		1,1-Dichloropropene
53-SC-U1-S	92.05135	10061015	< 5.		UG/KG	8/18/92		cis-1,3-Dichloropropene
53-SC-U1-S	92.05135	10061026	< 5.		UG/KG	8/18/92		trans-1,3-Dichloropropene
53-SC-U1-S	92.05135	100414	< 5.		UG/KG	8/18/92		Ethylbenzene
53-SC-U1-S	92.05135	106934	< 5.		UG/KG	8/18/92		Ethylene dibromide
53-SC-U1-S	92.05135	591786	< 20.		UG/KG	8/18/92		2-Hexanone
53-SC-U1-S	92.05135	98828	< 5.		UG/KG	8/18/92		Isopropylbenzene
53-SC-U1-S	92.05135	99876	< 5.		UG/KG	8/18/92		4-Isopropyltoluene
53-SC-U1-S	92.05135	74884	< 5.		UG/KG	8/18/92		Methyl iodide
53-SC-U1-S	92.05135	108101	< 20.		UG/KG	8/18/92		4-Methyl-2-pentanone
53-SC-U1-S	92.05135	75092	< 5.		UG/KG	8/18/92		Methylene chloride
53-SC-U1-S	92.05135	103651	< 5.		UG/KG	8/18/92		Propylbenzene
53-SC-U1-S	92.05135	100425	< 5.		UG/KG	8/18/92		Styrene
53-SC-U1-S	92.05135	630206	< 5.		UG/KG	8/18/92		1,1,1,2-Tetrachloroethane
53-SC-U1-S	92.05135	79345	< 5.		UG/KG	8/18/92		1,1,2,2-Tetrachloroethane
53-SC-U1-S	92.05135	127184	< 5.		UG/KG	8/18/92		Tetrachloroethylene
53-SC-U1-S	92.05135	108883	< 5.		UG/KG	8/18/92		Toluene
53-SC-U1-S	92.05135	76131	< 5.		UG/KG	8/18/92		1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-U1-S	92.05135	71556	< 5.		UG/KG	8/18/92		1,1,1-Trichloroethane
53-SC-U1-S	92.05135	79005	< 5.		UG/KG	8/18/92		1,1,2-Trichloroethane
53-SC-U1-S	92.05135	79016	< 5.		UG/KG	8/18/92		Trichloroethene
53-SC-U1-S	92.05135	75694	< 5.		UG/KG	8/18/92		Trichlorofluoromethane
53-SC-U1-S	92.05135	96184	< 5.		UG/KG	8/18/92		1,2,3-Trichloropropane
53-SC-U1-S	92.05135	95636	< 5.		UG/KG	8/18/92		1,2,4-Trimethylbenzene
53-SC-U1-S	92.05135	108678	< 5.		UG/KG	8/18/92		1,3,5-Trimethylbenzene
53-SC-U1-S	92.05135	108054	< 10.		UG/KG	8/18/92		Vinyl acetate
53-SC-U1-S	92.05135	75014	< 10.		UG/KG	8/18/92		Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-U1-S	92.05135	1330207	< 5.		UG/KG	8/18/92		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05135

none

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: EAJ on 18-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05136 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/29/92 Date Analyzed: 4/29/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-CBS-S	92.05136	67641	< 20.		UG/KG	8/18/92		Acetone
53-SC-CBS-S	92.05136	71432	< 5.		UG/KG	8/18/92		Benzene
53-SC-CBS-S	92.05136	108861	< 5.		UG/KG	8/18/92		Bromobenzene
53-SC-CBS-S	92.05136	74975	< 5.		UG/KG	8/18/92		Bromochloromethane
53-SC-CBS-S	92.05136	75274	< 5.		UG/KG	8/18/92		Bromodichloromethane
53-SC-CBS-S	92.05136	75252	< 5.		UG/KG	8/18/92		Bromoform
53-SC-CBS-S	92.05136	74839	< 10.		UG/KG	8/18/92		Bromomethane
53-SC-CBS-S	92.05136	78933	< 20.		UG/KG	8/18/92		2-Butanone
53-SC-CBS-S	92.05136	104518	< 5.		UG/KG	8/18/92		n-Butylbenzene
53-SC-CBS-S	92.05136	135988	< 5.		UG/KG	8/18/92		sec-Butylbenzene
53-SC-CBS-S	92.05136	98066	< 5.		UG/KG	8/18/92		tert-Butylbenzene
53-SC-CBS-S	92.05136	75150	< 5.		UG/KG	8/18/92		Carbon disulfide
53-SC-CBS-S	92.05136	56235	< 5.		UG/KG	8/18/92		Carbon tetrachloride
53-SC-CBS-S	92.05136	108907	< 5.		UG/KG	8/18/92		Chlorobenzene
53-SC-CBS-S	92.05136	124481	< 5.		UG/KG	8/18/92		Chlorodibromomethane
53-SC-CBS-S	92.05136	75003	< 10.		UG/KG	8/18/92		Chloroethane
53-SC-CBS-S	92.05136	67663	< 5.		UG/KG	8/18/92		Chloroform
53-SC-CBS-S	92.05136	74873	< 10.		UG/KG	8/18/92		Chloromethane
53-SC-CBS-S	92.05136	95498	< 5.		UG/KG	8/18/92		o-Chlorotoluene
53-SC-CBS-S	92.05136	106434	< 5.		UG/KG	8/18/92		p-Chlorotoluene
53-SC-CBS-S	92.05136	96128	< 10.		UG/KG	8/18/92		1,2-Dibromo-3-chloropropane
53-SC-CBS-S	92.05136	106934	< 5.		UG/KG	8/18/92		1,2-Dibromoethane
53-SC-CBS-S	92.05136	74953	< 5.		UG/KG	8/18/92		Dibromomethane
53-SC-CBS-S	92.05136	95501	< 5.		UG/KG	8/18/92		o-Dichlorobenzene (1,2)
53-SC-CBS-S	92.05136	541731	< 5.		UG/KG	8/18/92		m-Dichlorobenzene (1,3)
53-SC-CBS-S	92.05136	106467	< 5.		UG/KG	8/18/92		p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-CBS-S	92.05136	75718	< 10.		UG/KG	8/18/92		Dichlorodifluoromethane
53-SC-CBS-S	92.05136	75343	< 5.		UG/KG	8/18/92		1,1-Dichloroethane
53-SC-CBS-S	92.05136	107062	< 5.		UG/KG	8/18/92		1,2-Dichloroethane
53-SC-CBS-S	92.05136	75354	< 5.		UG/KG	8/18/92		1,1-Dichloroethene
53-SC-CBS-S	92.05136	156605	< 5.		UG/KG	8/18/92		trans-1,2-Dichloroethene
53-SC-CBS-S	92.05136	156592	< 5.		UG/KG	8/18/92		cis-1,2-Dichloroethylene
53-SC-CBS-S	92.05136	78875	< 5.		UG/KG	8/18/92		1,2-Dichloropropane
53-SC-CBS-S	92.05136	142289	< 5.		UG/KG	8/18/92		1,3-Dichloropropane
53-SC-CBS-S	92.05136	594207	< 5.		UG/KG	8/18/92		2,2-Dichloropropane
53-SC-CBS-S	92.05136	563586	< 5.		UG/KG	8/18/92		1,1-Dichloropropene
53-SC-CBS-S	92.05136	10061015	< 5.		UG/KG	8/18/92		cis-1,3-Dichloropropene
53-SC-CBS-S	92.05136	10061026	< 5.		UG/KG	8/18/92		trans-1,3-Dichloropropene
53-SC-CBS-S	92.05136	100414	< 5.		UG/KG	8/18/92		Ethylbenzene
53-SC-CBS-S	92.05136	106934	< 5.		UG/KG	8/18/92		Ethylene dibromide
53-SC-CBS-S	92.05136	591786	< 20.		UG/KG	8/18/92		2-Hexanone
53-SC-CBS-S	92.05136	98828	< 5.		UG/KG	8/18/92		Isopropylbenzene
53-SC-CBS-S	92.05136	99876	< 5.		UG/KG	8/18/92		4-Isopropyltoluene
53-SC-CBS-S	92.05136	74884	< 5.		UG/KG	8/18/92		Methyl iodide
53-SC-CBS-S	92.05136	108101	< 20.		UG/KG	8/18/92		4-Methyl-2-pentanone
53-SC-CBS-S	92.05136	75092	< 5.		UG/KG	8/18/92		Methylene chloride
53-SC-CBS-S	92.05136	103651	< 5.		UG/KG	8/18/92		Propylbenzene
53-SC-CBS-S	92.05136	100425	< 5.		UG/KG	8/18/92		Styrene
53-SC-CBS-S	92.05136	630206	< 5.		UG/KG	8/18/92		1,1,1,2-Tetrachloroethane
53-SC-CBS-S	92.05136	79345	< 5.		UG/KG	8/18/92		1,1,2,2-Tetrachloroethane
53-SC-CBS-S	92.05136	127184	< 5.		UG/KG	8/18/92		Tetrachloroethylene
53-SC-CBS-S	92.05136	108883	< 5.		UG/KG	8/18/92		Toluene
53-SC-CBS-S	92.05136	76131	< 5.		UG/KG	8/18/92		1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-CBS-S	92.05136	71556	< 5.		UG/KG	8/18/92		1,1,1-Trichloroethane
53-SC-CBS-S	92.05136	79005	< 5.		UG/KG	8/18/92		1,1,2-Trichloroethane
53-SC-CBS-S	92.05136	79016	< 5.		UG/KG	8/18/92		Trichloroethene
53-SC-CBS-S	92.05136	75694	< 5.		UG/KG	8/18/92		Trichlorofluoromethane
53-SC-CBS-S	92.05136	96184	< 5.		UG/KG	8/18/92		1,2,3-Trichloropropane
53-SC-CBS-S	92.05136	95636	< 5.		UG/KG	8/18/92		1,2,4-Trimethylbenzene
53-SC-CBS-S	92.05136	108678	< 5.		UG/KG	8/18/92		1,3,5-Trimethylbenzene
53-SC-CBS-S	92.05136	108054	< 10.		UG/KG	8/18/92		Vinyl acetate
53-SC-CBS-S	92.05136	75014	< 10.		UG/KG	8/18/92		Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-CBS-S	92.05136	1330207	< 5.		UG/KG	8/18/92		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05136

none

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: EAJ on 18-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05137 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: Date Analyzed:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-TPBLK	92.05137	67641	< 20.		UG/L	8/18/92	Y	Acetone
53-SC-TPBLK	92.05137	71432	< 5.		UG/L	8/18/92	Y	Benzene
53-SC-TPBLK	92.05137	108861	< 5.		UG/L	8/18/92	Y	Bromobenzene
53-SC-TPBLK	92.05137	74975	< 5.		UG/L	8/18/92	Y	Bromochloromethane
53-SC-TPBLK	92.05137	75274	< 5.		UG/L	8/18/92	Y	Bromodichloromethane
53-SC-TPBLK	92.05137	75252	< 5.		UG/L	8/18/92	Y	Bromoform
53-SC-TPBLK	92.05137	74839	< 10.		UG/L	8/18/92	Y	Bromomethane
53-SC-TPBLK	92.05137	78933	< 20.		UG/L	8/18/92	Y	2-Butanone
53-SC-TPBLK	92.05137	104518	< 5.		UG/L	8/18/92	Y	n-Butylbenzene
53-SC-TPBLK	92.05137	135988	< 5.		UG/L	8/18/92	Y	sec-Butylbenzene
53-SC-TPBLK	92.05137	98066	< 5.		UG/L	8/18/92	Y	tert-Butylbenzene
53-SC-TPBLK	92.05137	75150	< 5.		UG/L	8/18/92	Y	Carbon disulfide
53-SC-TPBLK	92.05137	56235	< 5.		UG/L	8/18/92	Y	Carbon tetrachloride
53-SC-TPBLK	92.05137	108907	< 5.		UG/L	8/18/92	Y	Chlorobenzene
53-SC-TPBLK	92.05137	124481	< 5.		UG/L	8/18/92	Y	Chlorodibromomethane
53-SC-TPBLK	92.05137	75003	< 10.		UG/L	8/18/92	Y	Chloroethane
53-SC-TPBLK	92.05137	67663	< 5.		UG/L	8/18/92	Y	Chloroform
53-SC-TPBLK	92.05137	74873	< 10.		UG/L	8/18/92	Y	Chloromethane
53-SC-TPBLK	92.05137	95498	< 5.		UG/L	8/18/92	Y	o-Chlorotoluene
53-SC-TPBLK	92.05137	106434	< 5.		UG/L	8/18/92	Y	p-Chlorotoluene
53-SC-TPBLK	92.05137	96128	< 10.		UG/L	8/18/92	Y	1,2-Dibromo-3-chloropropane
53-SC-TPBLK	92.05137	106934	< 5.		UG/L	8/18/92	Y	1,2-Dibromoethane
53-SC-TPBLK	92.05137	74953	< 5.		UG/L	8/18/92	Y	Dibromomethane
53-SC-TPBLK	92.05137	95501	< 5.		UG/L	8/18/92	Y	o-Dichlorobenzene (1,2)
53-SC-TPBLK	92.05137	541731	< 5.		UG/L	8/18/92	Y	m-Dichlorobenzene (1,3)
53-SC-TPBLK	92.05137	106467	< 5.		UG/L	8/18/92	Y	p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-TPBLK	92.05137	75718	< 10.		UG/L	8/18/92	Y	Dichlorodifluoromethane
53-SC-TPBLK	92.05137	75343	< 5.		UG/L	8/18/92	Y	1,1-Dichloroethane
53-SC-TPBLK	92.05137	107062	< 5.		UG/L	8/18/92	Y	1,2-Dichloroethane
53-SC-TPBLK	92.05137	75354	< 5.		UG/L	8/18/92	Y	1,1-Dichloroethene
53-SC-TPBLK	92.05137	156605	< 5.		UG/L	8/18/92	Y	trans-1,2-Dichloroethene
53-SC-TPBLK	92.05137	156592	< 5.		UG/L	8/18/92	Y	cis-1,2-Dichloroethylene
53-SC-TPBLK	92.05137	78875	< 5.		UG/L	8/18/92	Y	1,2-Dichloropropane
53-SC-TPBLK	92.05137	142289	< 5.		UG/L	8/18/92	Y	1,3-Dichloropropane
53-SC-TPBLK	92.05137	594207	< 5.		UG/L	8/18/92	Y	2,2-Dichloropropane
53-SC-TPBLK	92.05137	563586	< 5.		UG/L	8/18/92	Y	1,1-Dichloropropene
53-SC-TPBLK	92.05137	10061015	< 5.		UG/L	8/18/92	Y	cis-1,3-Dichloropropene
53-SC-TPBLK	92.05137	10061026	< 5.		UG/L	8/18/92	Y	trans-1,3-Dichloropropene
53-SC-TPBLK	92.05137	100414	< 5.		UG/L	8/18/92	Y	Ethylbenzene
53-SC-TPBLK	92.05137	106934	< 5.		UG/L	8/18/92	Y	Ethylene dibromide
53-SC-TPBLK	92.05137	591786	< 20.		UG/L	8/18/92	Y	2-Hexanone
53-SC-TPBLK	92.05137	98828	< 5.		UG/L	8/18/92	Y	Isopropylbenzene
53-SC-TPBLK	92.05137	99876	< 5.		UG/L	8/18/92	Y	4-Isopropyltoluene
53-SC-TPBLK	92.05137	74884	< 5.		UG/L	8/18/92	Y	Methyl iodide
53-SC-TPBLK	92.05137	108101	< 20.		UG/L	8/18/92	Y	4-Methyl-2-pentanone
53-SC-TPBLK	92.05137	75092	< 5.		UG/L	8/18/92	Y	Methylene chloride
53-SC-TPBLK	92.05137	103651	< 5.		UG/L	8/18/92	Y	Propylbenzene
53-SC-TPBLK	92.05137	100425	< 5.		UG/L	8/18/92	Y	Styrene
53-SC-TPBLK	92.05137	630206	< 5.		UG/L	8/18/92	Y	1,1,1,2-Tetrachloroethane
53-SC-TPBLK	92.05137	79345	< 5.		UG/L	8/18/92	Y	1,1,2,2-Tetrachloroethane
53-SC-TPBLK	92.05137	127184	< 5.		UG/L	8/18/92	Y	Tetrachloroethylene
53-SC-TPBLK	92.05137	108883	< 5.		UG/L	8/18/92	Y	Toluene
53-SC-TPBLK	92.05137	76131	< 5.		UG/L	8/18/92	Y	1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-TPBLK	92.05137	71556	< 5.		UG/L	8/18/92	Y	1,1,1-Trichloroethane
53-SC-TPBLK	92.05137	79005	< 5.		UG/L	8/18/92	Y	1,1,2-Trichloroethane
53-SC-TPBLK	92.05137	79016	< 5.		UG/L	8/18/92	Y	Trichloroethene
53-SC-TPBLK	92.05137	75694	< 5.		UG/L	8/18/92	Y	Trichlorofluoromethane
53-SC-TPBLK	92.05137	96184	< 5.		UG/L	8/18/92	Y	1,2,3-Trichloropropane
53-SC-TPBLK	92.05137	95636	< 5.		UG/L	8/18/92	Y	1,2,4-Trimethylbenzene
53-SC-TPBLK	92.05137	108678	< 5.		UG/L	8/18/92	Y	1,3,5-Trimethylbenzene
53-SC-TPBLK	92.05137	108054	< 10.		UG/L	8/18/92	Y	Vinyl acetate
53-SC-TPBLK	92.05137	75014	< 10.		UG/L	8/18/92	Y	Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-TPBLK	92.05137	1330207	< 5.		UG/L	8/18/92	Y	Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05137

none

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

EPA VOLATILES Prepared by: EAJ on 18-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: PAGE:

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC 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 EM-9

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

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

Blank Results, Sample # 92.05369 Date Collected: 4/16/92 Date Received: 4/16/92 Date Extracted: 4/30/92 Date Analyzed: 4/30/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	92.05369	67641	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	Acetone
00.20227	92.05369	71432	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Benzene
00.20227	92.05369	108861	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromobenzene
00.20227	92.05369	74975	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromochloromethane
00.20227	92.05369	75274	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromodichloromethane
00.20227	92.05369	75252	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromoform
00.20227	92.05369	74839	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromomethane
00.20227	92.05369	78933	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	2-Butanone
00.20227	92.05369	104518	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	n-Butylbenzene
00.20227	92.05369	135988	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	sec-Butylbenzene
00.20227	92.05369	98066	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	tert-Butylbenzene
00.20227	92.05369	75150	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Carbon disulfide
00.20227	92.05369	56235	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Carbon tetrachloride
00.20227	92.05369	108907	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chlorobenzene
00.20227	92.05369	124481	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chlorodibromomethane
00.20227	92.05369	75003	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloroethane
00.20227	92.05369	67663	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloroform
00.20227	92.05369	74873	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloromethane
00.20227	92.05369	95498	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	o-Chlorotoluene
00.20227	92.05369	106434	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	p-Chlorotoluene
00.20227	92.05369	96128	< 10.		UG/KG	0.0		8/18/92	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	92.05369	106934	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dibromoethane
00.20227	92.05369	74953	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Dibromomethane
00.20227	92.05369	95501	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.20227	92.05369	541731	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.20227	92.05369	106467	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.20227	92.05369	75718	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Dichlorodifluoromethane
00.20227	92.05369	75343	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloroethane
00.20227	92.05369	107062	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dichloroethane
00.20227	92.05369	75354	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloroethene
00.20227	92.05369	156605	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	trans-1,2-Dichloroethene
00.20227	92.05369	156592	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	cis-1,2-Dichloroethylene
00.20227	92.05369	78875	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dichloropropane
00.20227	92.05369	142289	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,3-Dichloropropane
00.20227	92.05369	594207	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	2,2-Dichloropropane
00.20227	92.05369	563586	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloropropene
00.20227	92.05369	10061015	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	cis-1,3-Dichloropropene
00.20227	92.05369	10061026	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	trans-1,3-Dichloropropene
00.20227	92.05369	100414	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Ethylbenzene
00.20227	92.05369	106934	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Ethylene dibromide
00.20227	92.05369	591786	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	2-Hexanone
00.20227	92.05369	98828	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Isopropylbenzene
00.20227	92.05369	99876	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	4-Isopropyltoluene
00.20227	92.05369	74884	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Methyl iodide
00.20227	92.05369	108101	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	4-Methyl-2-pentanone
00.20227	92.05369	75092	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Methylene chloride
00.20227	92.05369	103651	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Propylbenzene
00.20227	92.05369	100425	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Styrene
00.20227	92.05369	630206	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,1,2-Tetrachloroethane
00.20227	92.05369	79345	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2,2-Tetrachloroethane
00.20227	92.05369	127184	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Tetrachloroethylene
00.20227	92.05369	108883	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Toluene
00.20227	92.05369	76131	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroetha
00.20227	92.05369	71556	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,1-Trichloroethane
00.20227	92.05369	79005	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2-Trichloroethane
00.20227	92.05369	79016	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Trichloroethene
00.20227	92.05369	75694	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Trichlorofluoromethane

********** 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	92.05369	96184	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2,3-Trichloropropane
00.20227	92.05369	95636	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2,4-Trimethylbenzene
00.20227	92.05369	108678	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,3,5-Trimethylbenzene
00.20227	92.05369	108054	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Vinyl acetate
00.20227	92.05369	75014	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Vinyl chloride
00.20227	92.05369	1330207	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Mixed-Xylenes (o ± m ± p)

Blank Results, Sample # 92.05370 Date Collected: 4/16/92 Date Received: 4/16/92 Date Extracted: 4/22/92 Date Analyzed: 4/22/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	92.05370	67641	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	Acetone
00.20227	92.05370	71432	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Benzene
00.20227	92.05370	108861	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromobenzene
00.20227	92.05370	74975	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromochloromethane
00.20227	92.05370	75274	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromodichloromethane
00.20227	92.05370	75252	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromoform
00.20227	92.05370	74839	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromomethane
00.20227	92.05370	78933	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	2-Butanone
00.20227	92.05370	104518	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	n-Butylbenzene
00.20227	92.05370	135988	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	sec-Butylbenzene
00.20227	92.05370	98066	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	tert-Butylbenzene
00.20227	92.05370	75150	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Carbon disulfide
00.20227	92.05370	56235	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Carbon tetrachloride
00.20227	92.05370	108907	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chlorobenzene
00.20227	92.05370	124481	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chlorodibromomethane

********** 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	92.05370	75003	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloroethane
00.20227	92.05370	67663	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloroform
00.20227	92.05370	74873	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloromethane
00.20227	92.05370	95498	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	o-Chlorotoluene
00.20227	92.05370	106434	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	p-Chlorotoluene
00.20227	92.05370	96128	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dibromo-3-chloropropane
00.20227	92.05370	106934	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dibromoethane
00.20227	92.05370	74953	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Dibromomethane
00.20227	92.05370	95501	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.20227	92.05370	541731	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.20227	92.05370	106467	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.20227	92.05370	75718	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Dichlorodifluoromethane
00.20227	92.05370	75343	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloroethane
00.20227	92.05370	107062	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dichloroethane
00.20227	92.05370	75354	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloroethene
00.20227	92.05370	156605	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	trans-1,2-Dichloroethene
00.20227	92.05370	156592	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	cis-1,2-Dichloroethylene
00.20227	92.05370	78875	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dichloropropane
00.20227	92.05370	142289	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,3-Dichloropropane
00.20227	92.05370	594207	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	2,2-Dichloropropane
00.20227	92.05370	563586	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloropropene
00.20227	92.05370	10061015	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	cis-1,3-Dichloropropene
00.20227	92.05370	10061026	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	trans-1,3-Dichloropropene
00.20227	92.05370	100414	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Ethylbenzene
00.20227	92.05370	106934	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Ethylene dibromide
00.20227	92.05370	591786	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	2-Hexanone
00.20227	92.05370	98828	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Isopropylbenzene
00.20227	92.05370	99876	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	4-Isopropyltoluene
00.20227	92.05370	74884	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Methyl iodide
00.20227	92.05370	108101	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	4-Methyl-2-pentanone
00.20227	92.05370	75092	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Methylene chloride
00.20227	92.05370	103651	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Propylbenzene
00.20227	92.05370	100425	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Styrene
00.20227	92.05370	630206	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,1,2-Tetrachloroethane
00.20227	92.05370	79345	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2,2-Tetrachloroethane
00.20227	92.05370	127184	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Tetrachloroethylene

********** 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	92.05370	108883	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Toluene
00.20227	92.05370	76131	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroetha
00.20227	92.05370	71556	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,1-Trichloroethane
00.20227	92.05370	79005	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2-Trichloroethane
00.20227	92.05370	79016	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Trichloroethene
00.20227	92.05370	75694	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Trichlorofluoromethane
00.20227	92.05370	96184	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2,3-Trichloropropane
00.20227	92.05370	95636	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2,4-Trimethylbenzene
00.20227	92.05370	108678	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,3,5-Trimethylbenzene
00.20227	92.05370	108054	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Vinyl acetate
00.20227	92.05370	75014	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Vinyl chloride
00.20227	92.05370	1330207	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Mixed-Xylenes (o ± m ± p)

Blank Results, Sample # 92.05371 Date Collected: 4/16/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 4/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	92.05371	67641	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	Acetone
00.20227	92.05371	71432	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Benzene
00.20227	92.05371	108861	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromobenzene
00.20227	92.05371	74975	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromochloromethane
00.20227	92.05371	75274	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromodichloromethane
00.20227	92.05371	75252	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromoform
00.20227	92.05371	74839	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromomethane
00.20227	92.05371	78933	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	2-Butanone
00.20227	92.05371	104518	< 5.		UG/KG	0.0		8/18/92	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	92.05371	135988	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	sec-Butylbenzene
00.20227	92.05371	98066	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	tert-Butylbenzene
00.20227	92.05371	75150	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Carbon disulfide
00.20227	92.05371	56235	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Carbon tetrachloride
00.20227	92.05371	108907	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chlorobenzene
00.20227	92.05371	124481	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chlorodibromomethane
00.20227	92.05371	75003	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloroethane
00.20227	92.05371	67663	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloroform
00.20227	92.05371	74873	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloromethane
00.20227	92.05371	95498	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	o-Chlorotoluene
00.20227	92.05371	106434	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	p-Chlorotoluene
00.20227	92.05371	96128	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dibromo-3-chloropropane
00.20227	92.05371	106934	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dibromoethane
00.20227	92.05371	74953	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Dibromomethane
00.20227	92.05371	95501	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.20227	92.05371	541731	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.20227	92.05371	106467	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.20227	92.05371	75718	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Dichlorodifluoromethane
00.20227	92.05371	75343	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloroethane
00.20227	92.05371	107062	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dichloroethane
00.20227	92.05371	75354	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloroethene
00.20227	92.05371	156605	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	trans-1,2-Dichloroethene
00.20227	92.05371	156592	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	cis-1,2-Dichloroethylene
00.20227	92.05371	78875	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dichloropropane
00.20227	92.05371	142289	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,3-Dichloropropane
00.20227	92.05371	594207	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	2,2-Dichloropropane
00.20227	92.05371	563586	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloropropene
00.20227	92.05371	10061015	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	cis-1,3-Dichloropropene
00.20227	92.05371	10061026	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	trans-1,3-Dichloropropene
00.20227	92.05371	100414	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Ethylbenzene
00.20227	92.05371	106934	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Ethylene dibromide
00.20227	92.05371	591786	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	2-Hexanone
00.20227	92.05371	98828	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Isopropylbenzene
00.20227	92.05371	99876	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	4-Isopropyltoluene
00.20227	92.05371	74884	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Methyl iodide
00.20227	92.05371	108101	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	4-Methyl-2-pentanone

********** 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	92.05371	75092	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Methylene chloride
00.20227	92.05371	103651	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Propylbenzene
00.20227	92.05371	100425	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Styrene
00.20227	92.05371	630206	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,1,2-Tetrachloroethane
00.20227	92.05371	79345	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2,2-Tetrachloroethane
00.20227	92.05371	127184	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Tetrachloroethylene
00.20227	92.05371	108883	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Toluene
00.20227	92.05371	76131	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroetha
00.20227	92.05371	71556	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,1-Trichloroethane
00.20227	92.05371	79005	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2-Trichloroethane
00.20227	92.05371	79016	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Trichloroethene
00.20227	92.05371	75694	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Trichlorofluoromethane
00.20227	92.05371	96184	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2,3-Trichloropropane
00.20227	92.05371	95636	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2,4-Trimethylbenzene
00.20227	92.05371	108678	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,3,5-Trimethylbenzene
00.20227	92.05371	108054	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Vinyl acetate
00.20227	92.05371	75014	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Vinyl chloride
00.20227	92.05371	1330207	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Mixed-Xylenes (o ± m ± p)

Blank Results, Sample # 92.05372 Date Collected: 4/16/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 4/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	92.05372	67641	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	Acetone
00.20227	92.05372	71432	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Benzene
00.20227	92.05372	108861	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromobenzene

********** 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	92.05372	74975	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromochloromethane
00.20227	92.05372	75274	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromodichloromethane
00.20227	92.05372	75252	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromoform
00.20227	92.05372	74839	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromomethane
00.20227	92.05372	78933	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	2-Butanone
00.20227	92.05372	104518	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	n-Butylbenzene
00.20227	92.05372	135988	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	sec-Butylbenzene
00.20227	92.05372	98066	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	tert-Butylbenzene
00.20227	92.05372	75150	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Carbon disulfide
00.20227	92.05372	56235	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Carbon tetrachloride
00.20227	92.05372	108907	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chlorobenzene
00.20227	92.05372	124481	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chlorodibromomethane
00.20227	92.05372	75003	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloroethane
00.20227	92.05372	67663	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloroform
00.20227	92.05372	74873	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloromethane
00.20227	92.05372	95498	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	o-Chlorotoluene
00.20227	92.05372	106434	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	p-Chlorotoluene
00.20227	92.05372	96128	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dibromo-3-chloropropane
00.20227	92.05372	106934	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dibromoethane
00.20227	92.05372	74953	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Dibromomethane
00.20227	92.05372	95501	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.20227	92.05372	541731	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.20227	92.05372	106467	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.20227	92.05372	75718	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Dichlorodifluoromethane
00.20227	92.05372	75343	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloroethane
00.20227	92.05372	107062	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dichloroethane
00.20227	92.05372	75354	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloroethene
00.20227	92.05372	156605	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	trans-1,2-Dichloroethene
00.20227	92.05372	156592	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	cis-1,2-Dichloroethylene
00.20227	92.05372	78875	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dichloropropane
00.20227	92.05372	142289	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,3-Dichloropropane
00.20227	92.05372	594207	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	2,2-Dichloropropane
00.20227	92.05372	563586	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloropropene
00.20227	92.05372	10061015	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	cis-1,3-Dichloropropene
00.20227	92.05372	10061026	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	trans-1,3-Dichloropropene
00.20227	92.05372	100414	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Ethylbenzene

********** 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	92.05372	106934	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Ethylene dibromide
00.20227	92.05372	591786	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	2-Hexanone
00.20227	92.05372	98828	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Isopropylbenzene
00.20227	92.05372	99876	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	4-Isopropyltoluene
00.20227	92.05372	74884	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Methyl iodide
00.20227	92.05372	108101	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	4-Methyl-2-pentanone
00.20227	92.05372	75092	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Methylene chloride
00.20227	92.05372	103651	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Propylbenzene
00.20227	92.05372	100425	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Styrene
00.20227	92.05372	630206	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,1,2-Tetrachloroethane
00.20227	92.05372	79345	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2,2-Tetrachloroethane
00.20227	92.05372	127184	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Tetrachloroethylene
00.20227	92.05372	108883	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Toluene
00.20227	92.05372	76131	25.	7.5	UG/KG	0.0		8/18/92	OUT OF CONTROL	1,1,2-Trichloro-1,2,2-trifluoroetha
00.20227	92.05372	71556	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,1-Trichloroethane
00.20227	92.05372	79005	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2-Trichloroethane
00.20227	92.05372	79016	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Trichloroethene
00.20227	92.05372	75694	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Trichlorofluoromethane
00.20227	92.05372	96184	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2,3-Trichloropropane
00.20227	92.05372	95636	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2,4-Trimethylbenzene
00.20227	92.05372	108678	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,3,5-Trimethylbenzene
00.20227	92.05372	108054	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Vinyl acetate
00.20227	92.05372	75014	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Vinyl chloride
00.20227	92.05372	1330207	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Mixed-Xylenes (o ± m ± p)

Blank Results, Sample # 92.06454 Date Collected: 5/08/92 Date Received: 5/08/92 Date Extracted: 4/21/92 Date Analyzed: 4/21/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	92.06454	67641	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	Acetone

********** 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	92.06454	71432	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Benzene
00.20227	92.06454	108861	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromobenzene
00.20227	92.06454	74975	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromochloromethane
00.20227	92.06454	75274	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromodichloromethane
00.20227	92.06454	75252	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromoform
00.20227	92.06454	74839	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromomethane
00.20227	92.06454	78933	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	2-Butanone
00.20227	92.06454	104518	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	n-Butylbenzene
00.20227	92.06454	135988	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	sec-Butylbenzene
00.20227	92.06454	98066	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	tert-Butylbenzene
00.20227	92.06454	75150	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Carbon disulfide
00.20227	92.06454	56235	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Carbon tetrachloride
00.20227	92.06454	108907	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chlorobenzene
00.20227	92.06454	124481	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chlorodibromomethane
00.20227	92.06454	75003	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloroethane
00.20227	92.06454	67663	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloroform
00.20227	92.06454	74873	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloromethane
00.20227	92.06454	95498	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	o-Chlorotoluene
00.20227	92.06454	106434	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	p-Chlorotoluene
00.20227	92.06454	96128	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dibromo-3-chloropropane
00.20227	92.06454	106934	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dibromoethane
00.20227	92.06454	74953	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Dibromomethane
00.20227	92.06454	95501	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.20227	92.06454	541731	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.20227	92.06454	106467	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.20227	92.06454	75718	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Dichlorodifluoromethane
00.20227	92.06454	75343	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloroethane
00.20227	92.06454	107062	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dichloroethane
00.20227	92.06454	75354	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloroethene
00.20227	92.06454	156605	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	trans-1,2-Dichloroethene
00.20227	92.06454	156592	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	cis-1,2-Dichloroethylene
00.20227	92.06454	78875	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dichloropropane
00.20227	92.06454	142289	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,3-Dichloropropane
00.20227	92.06454	594207	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	2,2-Dichloropropane
00.20227	92.06454	563586	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloropropene
00.20227	92.06454	10061015	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	cis-1,3-Dichloropropene

********** 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	92.06454	10061026	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	trans-1,3-Dichloropropene
00.20227	92.06454	100414	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Ethylbenzene
00.20227	92.06454	106934	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Ethylene dibromide
00.20227	92.06454	591786	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	2-Hexanone
00.20227	92.06454	98828	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Isopropylbenzene
00.20227	92.06454	99876	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	4-Isopropyltoluene
00.20227	92.06454	74884	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Methyl iodide
00.20227	92.06454	108101	< 20.		UG/KG	0.0		8/18/92	UNDER CONTROL	4-Methyl-2-pentanone
00.20227	92.06454	75092	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Methylene chloride
00.20227	92.06454	103651	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Propylbenzene
00.20227	92.06454	100425	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Styrene
00.20227	92.06454	630206	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,1,2-Tetrachloroethane
00.20227	92.06454	79345	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2,2-Tetrachloroethane
00.20227	92.06454	127184	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Tetrachloroethylene
00.20227	92.06454	108883	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Toluene
00.20227	92.06454	76131	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroetha
00.20227	92.06454	71556	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,1-Trichloroethane
00.20227	92.06454	79005	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2-Trichloroethane
00.20227	92.06454	79016	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Trichloroethene
00.20227	92.06454	75694	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Trichlorofluoromethane
00.20227	92.06454	96184	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2,3-Trichloropropane
00.20227	92.06454	95636	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2,4-Trimethylbenzene
00.20227	92.06454	108678	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,3,5-Trimethylbenzene
00.20227	92.06454	108054	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Vinyl acetate
00.20227	92.06454	75014	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Vinyl chloride
00.20227	92.06454	1330207	< 5.		UG/KG	0.0		8/18/92	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 # 92.05367 Date Collected: 4/16/92 Date Received: 4/16/92 Date Extracted: 4/22/92 Date Analyzed: 4/22/92

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
92.05367	67641	< 20.		UG/KG	117.	12.	8/18/92	OUT OF CONTROL	Acetone
92.05367	71432	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Benzene
92.05367	108861	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromobenzene
92.05367	74975	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromochloromethane
92.05367	75274	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromodichloromethane
92.05367	75252	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromoform
92.05367	74839	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromomethane
92.05367	78933	99.	29.7	UG/KG	125.	13.	8/18/92	UNDER CONTROL	2-Butanone
92.05367	104518	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	n-Butylbenzene
92.05367	135988	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	sec-Butylbenzene
92.05367	98066	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	tert-Butylbenzene
92.05367	75150	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Carbon disulfide
92.05367	56235	150.	45.	UG/KG	151.	15.	8/18/92	UNDER CONTROL	Carbon tetrachloride
92.05367	108907	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chlorobenzene
92.05367	124481	110.	33.	UG/KG	114.	11.	8/18/92	UNDER CONTROL	Chlorodibromomethane
92.05367	75003	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloroethane
92.05367	67663	110.	33.	UG/KG	114.	11.	8/18/92	UNDER CONTROL	Chloroform
92.05367	74873	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloromethane
92.05367	95498	83.	24.9	UG/KG	105.	10.	8/18/92	UNDER CONTROL	o-Chlorotoluene
92.05367	106434	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	p-Chlorotoluene
92.05367	96128	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dibromo-3-chloropropane
92.05367	106934	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dibromoethane
92.05367	74953	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Dibromomethane
92.05367	95501	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	o-Dichlorobenzene (1,2)
92.05367	541731	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	m-Dichlorobenzene (1,3)
92.05367	106467	53.	15.9	UG/KG	103.	10.	8/18/92	WARNING 2-3 SIG	p-Dichlorobenzene (1,4)

92.05367	75718	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Dichlorodifluoromethane
92.05367	75343	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloroethane
92.05367	107062	110.	33.	UG/KG	113.	11.	8/18/92	UNDER CONTROL	1,2-Dichloroethane
92.05367	75354	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloroethene
92.05367	156605	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	trans-1,2-Dichloroethene
92.05367	156592	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	cis-1,2-Dichloroethylene
92.05367	78875	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dichloropropane
92.05367	142289	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,3-Dichloropropane
92.05367	594207	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	2,2-Dichloropropane
92.05367	563586	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloropropene
92.05367	10061015	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	cis-1,3-Dichloropropene
92.05367	10061026	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	trans-1,3-Dichloropropene
92.05367	100414	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Ethylbenzene
92.05367	106934	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Ethylene dibromide
92.05367	591786	100.	30.	UG/KG	106.	11.	8/18/92	UNDER CONTROL	2-Hexanone
92.05367	98828	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Isopropylbenzene
92.05367	99876	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	4-Isopropyltoluene
92.05367	74884	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Methyl iodide
92.05367	108101	120.	36.	UG/KG	116.	12.	8/18/92	UNDER CONTROL	4-Methyl-2-pentanone
92.05367	75092	110.	33.	UG/KG	119.	12.	8/18/92	UNDER CONTROL	Methylene chloride
92.05367	103651	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Propylbenzene
92.05367	100425	91.	27.3	UG/KG	119.	12.	8/18/92	UNDER CONTROL	Styrene
92.05367	630206	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,1,2-Tetrachloroethane
92.05367	79345	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2,2-Tetrachloroethane
92.05367	127184	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Tetrachloroethylene
92.05367	108883	99.	29.7	UG/KG	114.	11.	8/18/92	UNDER CONTROL	Toluene
92.05367	76131	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroethane
92.05367	71556	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,1-Trichloroethane
92.05367	79005	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2-Trichloroethane
92.05367	79016	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Trichloroethene
92.05367	75694	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Trichlorofluoromethane
92.05367	96184	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2,3-Trichloropropane
92.05367	95636	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2,4-Trimethylbenzene
92.05367	108678	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,3,5-Trimethylbenzene
92.05367	108054	58.	17.4	UG/KG	117.	12.	8/18/92	WARNING 2-3 SIG	Vinyl acetate
92.05367	75014	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Vinyl chloride
92.05367	1330207	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Mixed-Xylenes (o ± m ± p)

Blind QC Results, Sample # 92.05368 Date Collected: 4/16/92 Date Received: 4/16/92 Date Extracted: 4/21/92 Date Analyzed: 4/21/92

92.05368	67641	81.	24.3	UG/KG	130.	13.	8/18/92	UNDER CONTROL	Acetone
92.05368	71432	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Benzene
92.05368	108861	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromobenzene
92.05368	74975	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromochloromethane

92.05368	75274	140.	42.	UG/KG	151.	15.	8/18/92	UNDER CONTROL	Bromodichloromethane
92.05368	75252	150.	45.	UG/KG	161.	16.	8/18/92	UNDER CONTROL	Bromoform
92.05368	74839	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Bromomethane
92.05368	78933	95.	28.5	UG/KG	139.	14.	8/18/92	UNDER CONTROL	2-Butanone
92.05368	104518	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	n-Butylbenzene
92.05368	135988	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	sec-Butylbenzene
92.05368	98066	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	tert-Butylbenzene
92.05368	75150	200.	60.	UG/KG	154.	15.	8/18/92	UNDER CONTROL	Carbon disulfide
92.05368	56235	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Carbon tetrachloride
92.05368	108907	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chlorobenzene
92.05368	124481	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chlorodibromomethane
92.05368	75003	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloroethane
92.05368	67663	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloroform
92.05368	74873	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Chloromethane
92.05368	95498	96.	28.8	UG/KG	117.	12.	8/18/92	UNDER CONTROL	o-Chlorotoluene
92.05368	106434	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	p-Chlorotoluene
92.05368	96128	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dibromo-3-chloropropane
92.05368	106934	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dibromoethane
92.05368	74953	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Dibromomethane
92.05368	95501	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	o-Dichlorobenzene (1,2)
92.05368	541731	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	m-Dichlorobenzene (1,3)
92.05368	106467	62.	18.6	UG/KG	114.	11.	8/18/92	WARNING 2-3 SIG	p-Dichlorobenzene (1,4)
92.05368	75718	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Dichlorodifluoromethane
92.05368	75343	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloroethane
92.05368	107062	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dichloroethane
92.05368	75354	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloroethene
92.05368	156605	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	trans-1,2-Dichloroethene
92.05368	156592	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	cis-1,2-Dichloroethylene
92.05368	78875	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2-Dichloropropane
92.05368	142289	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,3-Dichloropropane
92.05368	594207	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	2,2-Dichloropropane
92.05368	563586	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1-Dichloropropene
92.05368	10061015	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	cis-1,3-Dichloropropene
92.05368	10061026	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	trans-1,3-Dichloropropene
92.05368	100414	120.	36.	UG/KG	148.	15.	8/18/92	UNDER CONTROL	Ethylbenzene
92.05368	106934	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Ethylene dibromide
92.05368	591786	100.	30.	UG/KG	118.	12.	8/18/92	UNDER CONTROL	2-Hexanone
92.05368	98828	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Isopropylbenzene
92.05368	99876	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	4-Isopropyltoluene
92.05368	74884	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Methyl iodide
92.05368	108101	110.	33.	UG/KG	129.	13.	8/18/92	UNDER CONTROL	4-Methyl-2-pentanone
92.05368	75092	140.	42.	UG/KG	133.	13.	8/18/92	UNDER CONTROL	Methylene chloride
92.05368	103651	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Propylbenzene
92.05368	100425	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Styrene
92.05368	630206	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,1,2-Tetrachloroethane

92.05368	79345	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2,2-Tetrachloroethane
92.05368	127184	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Tetrachloroethylene
92.05368	108883	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Toluene
92.05368	76131	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroethane
92.05368	71556	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,1-Trichloroethane
92.05368	79005	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,1,2-Trichloroethane
92.05368	79016	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Trichloroethene
92.05368	75694	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	Trichlorofluoromethane
92.05368	96184	170.	51.	UG/KG	161.	16.	8/18/92	UNDER CONTROL	1,2,3-Trichloropropane
92.05368	95636	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,2,4-Trimethylbenzene
92.05368	108678	< 5.		UG/KG	0.0		8/18/92	UNDER CONTROL	1,3,5-Trimethylbenzene
92.05368	108054	110.	33.	UG/KG	130.	13.	8/18/92	UNDER CONTROL	Vinyl acetate
92.05368	75014	< 10.		UG/KG	0.0		8/18/92	UNDER CONTROL	Vinyl chloride
92.05368	1330207	< 5.		UG/KG	0.0		8/18/92	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)

SAMPLE NUMBER	UNITS	Surrogate 1	Surrogate 2	Surrogate 3	COMPLETION DATE	SAMPLE TYPE
92.05120	%	80.2	100.4	133.8	18-Aug-1992	
92.05121	%	94.4	101.4	126.2	18-Aug-1992	
92.05122	%	92.6	101.8	119.	18-Aug-1992	
92.05123	%	102.6	104.2	114.6	18-Aug-1992	
92.05124	%	103.2	97.6	116.6	18-Aug-1992	
92.05125	%	63.6	95.2	145.	18-Aug-1992	
92.05126	%	66.6	94.4	149.4	18-Aug-1992	
92.05127	%	90.8	100.4	120.4	18-Aug-1992	
92.05128	%	84.2	100.8	125.6	18-Aug-1992	
92.05129	%	83.4	102.4	125.8	18-Aug-1992	
92.05130	%	68.4	97.6	133.	18-Aug-1992	
92.05131	%	71.8	99.	123.4	18-Aug-1992	
92.05132	%	85.2	96.4	130.6	18-Aug-1992	
92.05133	%	89.2	99.8	130.	18-Aug-1992	
92.05134	%	82.4	95.8	130.	18-Aug-1992	
92.05135	%	95.2	89.4	143.	18-Aug-1992	
92.05136	%	103.2	100.6	108.8	18-Aug-1992	
92.05137	%	96.8	99.2	96.8	18-Aug-1992	
92.05367	%	97.6	104.6	100.2	18-Aug-1992	
92.05368	%	98.8	100.6	96.	18-Aug-1992	
92.05369	%	96.6	102.6	97.8	18-Aug-1992	B
92.05370	%	100.8	106.4	106.2	18-Aug-1992	B
92.05371	%	94.4	107.	102.8	18-Aug-1992	B
92.05372	%	88.2	100.	86.2	18-Aug-1992	B
92.06454	%	102.4	99.	101.6	18-Aug-1992	B

EPA Limits:				
Water	%	76 - 114	88 - 110	86 - 115
Soil	%	70 - 121	81 - 117	74 - 121

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

REPORT NUMBER: 14935

Analyst	Reviewer	Section Leader	QA Officer
for TRB			mag
8/19/92	8/19/92	8/21/92	8/21/92
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: 1986,' LA-11114-MS, pp. 3-4.

****

TO: PHILIP FRESQUEZ, EM-8

FROM: TONEY BEGAY, EM-9 Organic Analysis Section

THRU: CHRIS LEIBMAN
LAURA TSIAGKOURIS

DATE: MAY 13, 1992

REQUEST: 12787

The following wastewater samples from TA-53 had confirmed hits. These samples were analyzed for Volatile Organic Components (VOC'S) using SW 846 Purge and Trap (P/T) GC/MS method 8260 of analysis.

The samples were received in 40 mL capacity vials. 5 mL aliquot were spiked with ISM/PSS and analyzed.

Since the samples were not blank subtracted, a copy of the method blank results have been included in the report. **The holding time requirement was met.**

RESULTS:

Request number: 12787

	Acetone (ppb)
92.05155	35.0
92.05154	29.2

6/2/92

LOS ALAMOS NATIONAL LABORATORY
HEALTH, SAFETY AND ENVIRONMENT DIVISION
HSE-9
MATRIX SPIKE RECOVERIES FOR VOLATILES

		DRY WT/VOL (G or ML)	DILUTION FACTOR	AMOUNT SPIKED	LOQ (UG/KG OR UG/
REQUEST #:	12787				
NUMBER OF SAMPLES:	10				
SPIKE ID: (STARTS M OR E)	M92.05157	SPIKE 5	1	50	5
SPIKE DUP ID: (STARTS D OR F)	D92.05157	SPIKE-DUP 5	1	50	5
RAW DATA WITH:	---				
ANALYST:	TRB				

	SPIKE REC.	SPIKE-DUP REC.	SPIKE % REC.	SPIKE-DUP % REC.	RPD	LOW. REC. LIM.	UPP. REC. LIM.	RPD LIM.
1,1-Dichlorethene	<LOQ	<LOQ	0%*	0%*	ERR **	61	145	14
Benzene	41	43	82%	86%	5%	76	127	11
Trichlorethene	27	29	54%*	58%*	7%	71	120	14
Toluene	46	50	92%	100%	8%	76	125	13
Chlorobenzene	47	51	94%	102%	8%	75	130	13

LOS ALAMOS NATIONAL LABORATORY
HEALTH, SAFETY AND ENVIRONMENT DIVISION
HSE-9
SURROGATE RECOVERIES FOR VOLATILES
IN WATER TYPE MATRICES

REQUEST #: 12787

NUMBER OF SAMPLES: 10
MATRIX W
ANALYST: TRB
Date: 05/08/92

SURROGATE RECOVERIES

SURROGATE
RECOVERIES IN PERCENT (%)

	SAMPLE NUMBERS	TYPE	d4-1,2-dichloro-ethene	toluene-(d8)	4-bromo-fluoro-benzene
1	B92.06439	BLANK	102	99	102
2	B92.05385	BLANK	107	101	100
3	B92.05384	BLANK	94	107	103
4	S92.05383	SAMPLE	102	103	97
5	S92.05154	SAMPLE	103	106	98
6	S92.05155	SAMPLE	104	108	98
7	S92.05156	SAMPLE	102	102	107
8	S92.05157	SAMPLE	101	107	98
9	M92.05157	MATRIX SPIK	103	104	97
10	D92.05157	MATRIX SP-D	101	104	95
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Average % Surrogate Recovery...	102	104	99
Defined Lower QC Limits (%)....	76	88	86
Defined Upper QC Limits (%)....	114	110	115
Observed Lower QC Limits (%)...	94	99	95
Observed Upper QC Limits (%)...	107	108	107

"*" If % Surrogate Recovery is Followed by a "*", it is out of QC Limits.

Reviewed By: 5/29/92

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: LAT on 2-Jun-1992

REQUEST NUMBER: 12787 MATRIX: W ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: NA PAGE: NA

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05154 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 4/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-W	92.05154	67641	29.	8.7	UG/L	5/29/92	Y	Acetone
53-SC-G1-W	92.05154	71432	< 5.		UG/L	5/29/92	Y	Benzene
53-SC-G1-W	92.05154	108861	< 5.		UG/L	5/29/92	Y	Bromobenzene
53-SC-G1-W	92.05154	74975	< 5.		UG/L	5/29/92	Y	Bromochloromethane
53-SC-G1-W	92.05154	75274	< 5.		UG/L	5/29/92	Y	Bromodichloromethane
53-SC-G1-W	92.05154	75252	< 5.		UG/L	5/29/92	Y	Bromoform
53-SC-G1-W	92.05154	74839	< 10.		UG/L	5/29/92	Y	Bromomethane
53-SC-G1-W	92.05154	78933	< 20.		UG/L	5/29/92	Y	2-Butanone
53-SC-G1-W	92.05154	104518	< 5.		UG/L	5/29/92	Y	n-Butylbenzene
53-SC-G1-W	92.05154	135988	< 5.		UG/L	5/29/92	Y	sec-Butylbenzene
53-SC-G1-W	92.05154	98066	< 5.		UG/L	5/29/92	Y	tert-Butylbenzene
53-SC-G1-W	92.05154	75150	< 5.		UG/L	5/29/92	Y	Carbon disulfide
53-SC-G1-W	92.05154	56235	< 5.		UG/L	5/29/92	Y	Carbon tetrachloride
53-SC-G1-W	92.05154	108907	< 5.		UG/L	5/29/92	Y	Chlorobenzene
53-SC-G1-W	92.05154	124481	< 5.		UG/L	5/29/92	Y	Chlorodibromomethane
53-SC-G1-W	92.05154	75003	< 10.		UG/L	5/29/92	Y	Chloroethane
53-SC-G1-W	92.05154	67663	< 5.		UG/L	5/29/92	Y	Chloroform
53-SC-G1-W	92.05154	74873	< 10.		UG/L	5/29/92	Y	Chloromethane
53-SC-G1-W	92.05154	95498	< 5.		UG/L	5/29/92	Y	o-Chlorotoluene
53-SC-G1-W	92.05154	106434	< 5.		UG/L	5/29/92	Y	p-Chlorotoluene
53-SC-G1-W	92.05154	96128	< 10.		UG/L	5/29/92	Y	1,2-Dibromo-3-chloropropane
53-SC-G1-W	92.05154	106934	< 5.		UG/L	5/29/92	Y	1,2-Dibromoethane
53-SC-G1-W	92.05154	74953	< 5.		UG/L	5/29/92	Y	Dibromomethane
53-SC-G1-W	92.05154	95501	< 5.		UG/L	5/29/92	Y	o-Dichlorobenzene (1,2)
53-SC-G1-W	92.05154	541731	< 5.		UG/L	5/29/92	Y	m-Dichlorobenzene (1,3)
53-SC-G1-W	92.05154	106467	< 5.		UG/L	5/29/92	Y	p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-W	92.05154	75718	< 10.		UG/L	5/29/92	Y	Dichlorodifluoromethane
53-SC-G1-W	92.05154	75343	< 5.		UG/L	5/29/92	Y	1,1-Dichloroethane
53-SC-G1-W	92.05154	107062	< 5.		UG/L	5/29/92	Y	1,2-Dichloroethane
53-SC-G1-W	92.05154	75354	< 5.		UG/L	5/29/92	Y	1,1-Dichloroethene
53-SC-G1-W	92.05154	156605	< 5.		UG/L	5/29/92	Y	trans-1,2-Dichloroethene
53-SC-G1-W	92.05154	156592	< 5.		UG/L	5/29/92	Y	cis-1,2-Dichloroethylene
53-SC-G1-W	92.05154	78875	< 5.		UG/L	5/29/92	Y	1,2-Dichloropropane
53-SC-G1-W	92.05154	142289	< 5.		UG/L	5/29/92	Y	1,3-Dichloropropane
53-SC-G1-W	92.05154	594207	< 5.		UG/L	5/29/92	Y	2,2-Dichloropropane
53-SC-G1-W	92.05154	563586	< 5.		UG/L	5/29/92	Y	1,1-Dichloropropene
53-SC-G1-W	92.05154	10061015	< 5.		UG/L	5/29/92	Y	cis-1,3-Dichloropropene
53-SC-G1-W	92.05154	10061026	< 5.		UG/L	5/29/92	Y	trans-1,3-Dichloropropene
53-SC-G1-W	92.05154	100414	< 5.		UG/L	5/29/92	Y	Ethylbenzene
53-SC-G1-W	92.05154	106934	< 5.		UG/L	5/29/92	Y	Ethylene dibromide
53-SC-G1-W	92.05154	591786	< 20.		UG/L	5/29/92	Y	2-Hexanone
53-SC-G1-W	92.05154	98828	< 5.		UG/L	5/29/92	Y	Isopropylbenzene
53-SC-G1-W	92.05154	99876	< 5.		UG/L	5/29/92	Y	4-Isopropyltoluene
53-SC-G1-W	92.05154	74884	< 5.		UG/L	5/29/92	Y	Methyl iodide
53-SC-G1-W	92.05154	108101	< 20.		UG/L	5/29/92	Y	4-Methyl-2-pentanone
53-SC-G1-W	92.05154	75092	< 5.		UG/L	5/29/92	Y	Methylene chloride
53-SC-G1-W	92.05154	103651	< 5.		UG/L	5/29/92	Y	Propylbenzene
53-SC-G1-W	92.05154	100425	< 5.		UG/L	5/29/92	Y	Styrene
53-SC-G1-W	92.05154	630206	< 5.		UG/L	5/29/92	Y	1,1,1,2-Tetrachloroethane
53-SC-G1-W	92.05154	79345	< 5.		UG/L	5/29/92	Y	1,1,2,2-Tetrachloroethane
53-SC-G1-W	92.05154	127184	< 5.		UG/L	5/29/92	Y	Tetrachloroethylene
53-SC-G1-W	92.05154	108883	< 5.		UG/L	5/29/92	Y	Toluene
53-SC-G1-W	92.05154	76131	< 5.		UG/L	5/29/92	Y	1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-G1-W	92.05154	71556	< 5.		UG/L	5/29/92	Y	1,1,1-Trichloroethane
53-SC-G1-W	92.05154	79005	< 5.		UG/L	5/29/92	Y	1,1,2-Trichloroethane
53-SC-G1-W	92.05154	79016	< 5.		UG/L	5/29/92	Y	Trichloroethene
53-SC-G1-W	92.05154	75694	< 5.		UG/L	5/29/92	Y	Trichlorofluoromethane
53-SC-G1-W	92.05154	96184	< 5.		UG/L	5/29/92	Y	1,2,3-Trichloropropane
53-SC-G1-W	92.05154	95636	< 5.		UG/L	5/29/92	Y	1,2,4-Trimethylbenzene
53-SC-G1-W	92.05154	108678	< 5.		UG/L	5/29/92	Y	1,3,5-Trimethylbenzene
53-SC-G1-W	92.05154	108054	< 10.		UG/L	5/29/92	Y	Vinyl acetate
53-SC-G1-W	92.05154	75014	< 10.		UG/L	5/29/92	Y	Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-W	92.05154	1330207	< 5.		UG/L	5/29/92	Y	Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05154

none

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: LAT on 2-Jun-1992

REQUEST NUMBER: 12787 MATRIX: W ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: NA PAGE: NA

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05155 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 4/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-W-Q	92.05155	67641	35.	10.5	UG/L	5/29/92	Y	Acetone
53-SC-G1-W-Q	92.05155	71432	< 5.		UG/L	5/29/92	Y	Benzene
53-SC-G1-W-Q	92.05155	108861	< 5.		UG/L	5/29/92	Y	Bromobenzene
53-SC-G1-W-Q	92.05155	74975	< 5.		UG/L	5/29/92	Y	Bromochloromethane
53-SC-G1-W-Q	92.05155	75274	< 5.		UG/L	5/29/92	Y	Bromodichloromethane
53-SC-G1-W-Q	92.05155	75252	< 5.		UG/L	5/29/92	Y	Bromoform
53-SC-G1-W-Q	92.05155	74839	< 10.		UG/L	5/29/92	Y	Bromomethane
53-SC-G1-W-Q	92.05155	78933	< 20.		UG/L	5/29/92	Y	2-Butanone
53-SC-G1-W-Q	92.05155	104518	< 5.		UG/L	5/29/92	Y	n-Butylbenzene
53-SC-G1-W-Q	92.05155	135988	< 5.		UG/L	5/29/92	Y	sec-Butylbenzene
53-SC-G1-W-Q	92.05155	98066	< 5.		UG/L	5/29/92	Y	tert-Butylbenzene
53-SC-G1-W-Q	92.05155	75150	< 5.		UG/L	5/29/92	Y	Carbon disulfide
53-SC-G1-W-Q	92.05155	56235	< 5.		UG/L	5/29/92	Y	Carbon tetrachloride
53-SC-G1-W-Q	92.05155	108907	< 5.		UG/L	5/29/92	Y	Chlorobenzene
53-SC-G1-W-Q	92.05155	124481	< 5.		UG/L	5/29/92	Y	Chlorodibromomethane
53-SC-G1-W-Q	92.05155	75003	< 10.		UG/L	5/29/92	Y	Chloroethane
53-SC-G1-W-Q	92.05155	67663	< 5.		UG/L	5/29/92	Y	Chloroform
53-SC-G1-W-Q	92.05155	74873	< 10.		UG/L	5/29/92	Y	Chloromethane
53-SC-G1-W-Q	92.05155	95498	< 5.		UG/L	5/29/92	Y	o-Chlorotoluene
53-SC-G1-W-Q	92.05155	106434	< 5.		UG/L	5/29/92	Y	p-Chlorotoluene
53-SC-G1-W-Q	92.05155	96128	< 10.		UG/L	5/29/92	Y	1,2-Dibromo-3-chloropropane
53-SC-G1-W-Q	92.05155	106934	< 5.		UG/L	5/29/92	Y	1,2-Dibromoethane
53-SC-G1-W-Q	92.05155	74953	< 5.		UG/L	5/29/92	Y	Dibromomethane
53-SC-G1-W-Q	92.05155	95501	< 5.		UG/L	5/29/92	Y	o-Dichlorobenzene (1,2)
53-SC-G1-W-Q	92.05155	541731	< 5.		UG/L	5/29/92	Y	m-Dichlorobenzene (1,3)
53-SC-G1-W-Q	92.05155	106467	< 5.		UG/L	5/29/92	Y	p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-W-Q	92.05155	75718	< 10.		UG/L	5/29/92	Y	Dichlorodifluoromethane
53-SC-G1-W-Q	92.05155	75343	< 5.		UG/L	5/29/92	Y	1,1-Dichloroethane
53-SC-G1-W-Q	92.05155	107062	< 5.		UG/L	5/29/92	Y	1,2-Dichloroethane
53-SC-G1-W-Q	92.05155	75354	< 5.		UG/L	5/29/92	Y	1,1-Dichloroethene
53-SC-G1-W-Q	92.05155	156605	< 5.		UG/L	5/29/92	Y	trans-1,2-Dichloroethene
53-SC-G1-W-Q	92.05155	156592	< 5.		UG/L	5/29/92	Y	cis-1,2-Dichloroethylene
53-SC-G1-W-Q	92.05155	78875	< 5.		UG/L	5/29/92	Y	1,2-Dichloropropane
53-SC-G1-W-Q	92.05155	142289	< 5.		UG/L	5/29/92	Y	1,3-Dichloropropane
53-SC-G1-W-Q	92.05155	594207	< 5.		UG/L	5/29/92	Y	2,2-Dichloropropane
53-SC-G1-W-Q	92.05155	563586	< 5.		UG/L	5/29/92	Y	1,1-Dichloropropene
53-SC-G1-W-Q	92.05155	10061015	< 5.		UG/L	5/29/92	Y	cis-1,3-Dichloropropene
53-SC-G1-W-Q	92.05155	10061026	< 5.		UG/L	5/29/92	Y	trans-1,3-Dichloropropene
53-SC-G1-W-Q	92.05155	100414	< 5.		UG/L	5/29/92	Y	Ethylbenzene
53-SC-G1-W-Q	92.05155	106934	< 5.		UG/L	5/29/92	Y	Ethylene dibromide
53-SC-G1-W-Q	92.05155	591786	< 20.		UG/L	5/29/92	Y	2-Hexanone
53-SC-G1-W-Q	92.05155	98828	< 5.		UG/L	5/29/92	Y	Isopropylbenzene
53-SC-G1-W-Q	92.05155	99876	< 5.		UG/L	5/29/92	Y	4-Isopropyltoluene
53-SC-G1-W-Q	92.05155	74884	< 5.		UG/L	5/29/92	Y	Methyl iodide
53-SC-G1-W-Q	92.05155	108101	< 20.		UG/L	5/29/92	Y	4-Methyl-2-pentanone
53-SC-G1-W-Q	92.05155	75092	< 5.		UG/L	5/29/92	Y	Methylene chloride
53-SC-G1-W-Q	92.05155	103651	< 5.		UG/L	5/29/92	Y	Propylbenzene
53-SC-G1-W-Q	92.05155	100425	< 5.		UG/L	5/29/92	Y	Styrene
53-SC-G1-W-Q	92.05155	630206	< 5.		UG/L	5/29/92	Y	1,1,1,2-Tetrachloroethane
53-SC-G1-W-Q	92.05155	79345	< 5.		UG/L	5/29/92	Y	1,1,2,2-Tetrachloroethane
53-SC-G1-W-Q	92.05155	127184	< 5.		UG/L	5/29/92	Y	Tetrachloroethylene
53-SC-G1-W-Q	92.05155	108883	< 5.		UG/L	5/29/92	Y	Toluene
53-SC-G1-W-Q	92.05155	76131	< 5.		UG/L	5/29/92	Y	1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-G1-W-Q	92.05155	71556	< 5.		UG/L	5/29/92	Y	1,1,1-Trichloroethane
53-SC-G1-W-Q	92.05155	79005	< 5.		UG/L	5/29/92	Y	1,1,2-Trichloroethane
53-SC-G1-W-Q	92.05155	79016	< 5.		UG/L	5/29/92	Y	Trichloroethene
53-SC-G1-W-Q	92.05155	75694	< 5.		UG/L	5/29/92	Y	Trichlorofluoromethane
53-SC-G1-W-Q	92.05155	96184	< 5.		UG/L	5/29/92	Y	1,2,3-Trichloropropane
53-SC-G1-W-Q	92.05155	95636	< 5.		UG/L	5/29/92	Y	1,2,4-Trimethylbenzene
53-SC-G1-W-Q	92.05155	108678	< 5.		UG/L	5/29/92	Y	1,3,5-Trimethylbenzene
53-SC-G1-W-Q	92.05155	108054	< 10.		UG/L	5/29/92	Y	Vinyl acetate
53-SC-G1-W-Q	92.05155	75014	< 10.		UG/L	5/29/92	Y	Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-W-Q	92.05155	1330207	< 5.		UG/L	5/29/92	Y	Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05155

none

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: LAT on 2-Jun-1992

REQUEST NUMBER: 12787 MATRIX: W ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: NA PAGE: NA

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05156 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/21/92 Date Analyzed: 4/21/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-EBK-W	92.05156	67641	< 20.		UG/L	5/29/92	Y	Acetone
53-SC-EBK-W	92.05156	71432	< 5.		UG/L	5/29/92	Y	Benzene
53-SC-EBK-W	92.05156	108861	< 5.		UG/L	5/29/92	Y	Bromobenzene
53-SC-EBK-W	92.05156	74975	< 5.		UG/L	5/29/92	Y	Bromochloromethane
53-SC-EBK-W	92.05156	75274	< 5.		UG/L	5/29/92	Y	Bromodichloromethane
53-SC-EBK-W	92.05156	75252	< 5.		UG/L	5/29/92	Y	Bromoform
53-SC-EBK-W	92.05156	74839	< 10.		UG/L	5/29/92	Y	Bromomethane
53-SC-EBK-W	92.05156	78933	< 20.		UG/L	5/29/92	Y	2-Butanone
53-SC-EBK-W	92.05156	104518	< 5.		UG/L	5/29/92	Y	n-Butylbenzene
53-SC-EBK-W	92.05156	135988	< 5.		UG/L	5/29/92	Y	sec-Butylbenzene
53-SC-EBK-W	92.05156	98066	< 5.		UG/L	5/29/92	Y	tert-Butylbenzene
53-SC-EBK-W	92.05156	75150	< 5.		UG/L	5/29/92	Y	Carbon disulfide
53-SC-EBK-W	92.05156	56235	< 5.		UG/L	5/29/92	Y	Carbon tetrachloride
53-SC-EBK-W	92.05156	108907	< 5.		UG/L	5/29/92	Y	Chlorobenzene
53-SC-EBK-W	92.05156	124481	< 5.		UG/L	5/29/92	Y	Chlorodibromomethane
53-SC-EBK-W	92.05156	75003	< 10.		UG/L	5/29/92	Y	Chloroethane
53-SC-EBK-W	92.05156	67663	< 5.		UG/L	5/29/92	Y	Chloroform
53-SC-EBK-W	92.05156	74873	< 10.		UG/L	5/29/92	Y	Chloromethane
53-SC-EBK-W	92.05156	95498	< 5.		UG/L	5/29/92	Y	o-Chlorotoluene
53-SC-EBK-W	92.05156	106434	< 5.		UG/L	5/29/92	Y	p-Chlorotoluene
53-SC-EBK-W	92.05156	96128	< 10.		UG/L	5/29/92	Y	1,2-Dibromo-3-chloropropane
53-SC-EBK-W	92.05156	106934	< 5.		UG/L	5/29/92	Y	1,2-Dibromoethane
53-SC-EBK-W	92.05156	74953	< 5.		UG/L	5/29/92	Y	Dibromomethane
53-SC-EBK-W	92.05156	95501	< 5.		UG/L	5/29/92	Y	o-Dichlorobenzene (1,2)
53-SC-EBK-W	92.05156	541731	< 5.		UG/L	5/29/92	Y	m-Dichlorobenzene (1,3)
53-SC-EBK-W	92.05156	106467	< 5.		UG/L	5/29/92	Y	p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-EBK-W	92.05156	75718	< 10.		UG/L	5/29/92	Y	Dichlorodifluoromethane
53-SC-EBK-W	92.05156	75343	< 5.		UG/L	5/29/92	Y	1,1-Dichloroethane
53-SC-EBK-W	92.05156	107062	< 5.		UG/L	5/29/92	Y	1,2-Dichloroethane
53-SC-EBK-W	92.05156	75354	< 5.		UG/L	5/29/92	Y	1,1-Dichloroethene
53-SC-EBK-W	92.05156	156605	< 5.		UG/L	5/29/92	Y	trans-1,2-Dichloroethene
53-SC-EBK-W	92.05156	156592	< 5.		UG/L	5/29/92	Y	cis-1,2-Dichloroethylene
53-SC-EBK-W	92.05156	78875	< 5.		UG/L	5/29/92	Y	1,2-Dichloropropane
53-SC-EBK-W	92.05156	142289	< 5.		UG/L	5/29/92	Y	1,3-Dichloropropane
53-SC-EBK-W	92.05156	594207	< 5.		UG/L	5/29/92	Y	2,2-Dichloropropane
53-SC-EBK-W	92.05156	563586	< 5.		UG/L	5/29/92	Y	1,1-Dichloropropene
53-SC-EBK-W	92.05156	10061015	< 5.		UG/L	5/29/92	Y	cis-1,3-Dichloropropene
53-SC-EBK-W	92.05156	10061026	< 5.		UG/L	5/29/92	Y	trans-1,3-Dichloropropene
53-SC-EBK-W	92.05156	100414	< 5.		UG/L	5/29/92	Y	Ethylbenzene
53-SC-EBK-W	92.05156	106934	< 5.		UG/L	5/29/92	Y	Ethylene dibromide
53-SC-EBK-W	92.05156	591786	< 20.		UG/L	5/29/92	Y	2-Hexanone
53-SC-EBK-W	92.05156	98828	< 5.		UG/L	5/29/92	Y	Isopropylbenzene
53-SC-EBK-W	92.05156	99876	< 5.		UG/L	5/29/92	Y	4-Isopropyltoluene
53-SC-EBK-W	92.05156	74884	< 5.		UG/L	5/29/92	Y	Methyl iodide
53-SC-EBK-W	92.05156	108101	< 20.		UG/L	5/29/92	Y	4-Methyl-2-pentanone
53-SC-EBK-W	92.05156	75092	< 5.		UG/L	5/29/92	Y	Methylene chloride
53-SC-EBK-W	92.05156	103651	< 5.		UG/L	5/29/92	Y	Propylbenzene
53-SC-EBK-W	92.05156	100425	< 5.		UG/L	5/29/92	Y	Styrene
53-SC-EBK-W	92.05156	630206	< 5.		UG/L	5/29/92	Y	1,1,1,2-Tetrachloroethane
53-SC-EBK-W	92.05156	79345	< 5.		UG/L	5/29/92	Y	1,1,2,2-Tetrachloroethane
53-SC-EBK-W	92.05156	127184	< 5.		UG/L	5/29/92	Y	Tetrachloroethylene
53-SC-EBK-W	92.05156	108883	< 5.		UG/L	5/29/92	Y	Toluene
53-SC-EBK-W	92.05156	76131	< 5.		UG/L	5/29/92	Y	1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-EBK-W	92.05156	71556	< 5.		UG/L	5/29/92	Y	1,1,1-Trichloroethane
53-SC-EBK-W	92.05156	79005	< 5.		UG/L	5/29/92	Y	1,1,2-Trichloroethane
53-SC-EBK-W	92.05156	79016	< 5.		UG/L	5/29/92	Y	Trichloroethene
53-SC-EBK-W	92.05156	75694	< 5.		UG/L	5/29/92	Y	Trichlorofluoromethane
53-SC-EBK-W	92.05156	96184	< 5.		UG/L	5/29/92	Y	1,2,3-Trichloropropane
53-SC-EBK-W	92.05156	95636	< 5.		UG/L	5/29/92	Y	1,2,4-Trimethylbenzene
53-SC-EBK-W	92.05156	108678	< 5.		UG/L	5/29/92	Y	1,3,5-Trimethylbenzene
53-SC-EBK-W	92.05156	108054	< 10.		UG/L	5/29/92	Y	Vinyl acetate
53-SC-EBK-W	92.05156	75014	< 10.		UG/L	5/29/92	Y	Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-EBK-W	92.05156	1330207	< 5.		UG/L	5/29/92	Y	Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05156

none

REPORT NUMBER: 14122

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: LAT on 2-Jun-1992

REQUEST NUMBER: 12787 MATRIX: W ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: NA PAGE: NA

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05157 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 4/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-FBLK-W	92.05157	67641	< 20.		UG/L	5/29/92	Y	Acetone
53-SC-FBLK-W	92.05157	71432	< 5.		UG/L	5/29/92	Y	Benzene
53-SC-FBLK-W	92.05157	108861	< 5.		UG/L	5/29/92	Y	Bromobenzene
53-SC-FBLK-W	92.05157	74975	< 5.		UG/L	5/29/92	Y	Bromochloromethane
53-SC-FBLK-W	92.05157	75274	< 5.		UG/L	5/29/92	Y	Bromodichloromethane
53-SC-FBLK-W	92.05157	75252	< 5.		UG/L	5/29/92	Y	Bromoform
53-SC-FBLK-W	92.05157	74839	< 10.		UG/L	5/29/92	Y	Bromomethane
53-SC-FBLK-W	92.05157	78933	< 20.		UG/L	5/29/92	Y	2-Butanone
53-SC-FBLK-W	92.05157	104518	< 5.		UG/L	5/29/92	Y	n-Butylbenzene
53-SC-FBLK-W	92.05157	135988	< 5.		UG/L	5/29/92	Y	sec-Butylbenzene
53-SC-FBLK-W	92.05157	98066	< 5.		UG/L	5/29/92	Y	tert-Butylbenzene
53-SC-FBLK-W	92.05157	75150	< 5.		UG/L	5/29/92	Y	Carbon disulfide
53-SC-FBLK-W	92.05157	56235	< 5.		UG/L	5/29/92	Y	Carbon tetrachloride
53-SC-FBLK-W	92.05157	108907	< 5.		UG/L	5/29/92	Y	Chlorobenzene
53-SC-FBLK-W	92.05157	124481	< 5.		UG/L	5/29/92	Y	Chlorodibromomethane
53-SC-FBLK-W	92.05157	75003	< 10.		UG/L	5/29/92	Y	Chloroethane
53-SC-FBLK-W	92.05157	67663	< 5.		UG/L	5/29/92	Y	Chloroform
53-SC-FBLK-W	92.05157	74873	< 10.		UG/L	5/29/92	Y	Chloromethane
53-SC-FBLK-W	92.05157	95498	< 5.		UG/L	5/29/92	Y	o-Chlorotoluene
53-SC-FBLK-W	92.05157	106434	< 5.		UG/L	5/29/92	Y	p-Chlorotoluene
53-SC-FBLK-W	92.05157	96128	< 10.		UG/L	5/29/92	Y	1,2-Dibromo-3-chloropropane
53-SC-FBLK-W	92.05157	106934	< 5.		UG/L	5/29/92	Y	1,2-Dibromoethane
53-SC-FBLK-W	92.05157	74953	< 5.		UG/L	5/29/92	Y	Dibromomethane
53-SC-FBLK-W	92.05157	95501	< 5.		UG/L	5/29/92	Y	o-Dichlorobenzene (1,2)
53-SC-FBLK-W	92.05157	541731	< 5.		UG/L	5/29/92	Y	m-Dichlorobenzene (1,3)
53-SC-FBLK-W	92.05157	106467	< 5.		UG/L	5/29/92	Y	p-Dichlorobenzene (1,4)

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-FBLK-W	92.05157	75718	< 10.		UG/L	5/29/92	Y	Dichlorodifluoromethane
53-SC-FBLK-W	92.05157	75343	< 5.		UG/L	5/29/92	Y	1,1-Dichloroethane
53-SC-FBLK-W	92.05157	107062	< 5.		UG/L	5/29/92	Y	1,2-Dichloroethane
53-SC-FBLK-W	92.05157	75354	< 5.		UG/L	5/29/92	Y	1,1-Dichloroethene
53-SC-FBLK-W	92.05157	156605	< 5.		UG/L	5/29/92	Y	trans-1,2-Dichloroethene
53-SC-FBLK-W	92.05157	156592	< 5.		UG/L	5/29/92	Y	cis-1,2-Dichloroethylene
53-SC-FBLK-W	92.05157	78875	< 5.		UG/L	5/29/92	Y	1,2-Dichloropropane
53-SC-FBLK-W	92.05157	142289	< 5.		UG/L	5/29/92	Y	1,3-Dichloropropane
53-SC-FBLK-W	92.05157	594207	< 5.		UG/L	5/29/92	Y	2,2-Dichloropropane
53-SC-FBLK-W	92.05157	563586	< 5.		UG/L	5/29/92	Y	1,1-Dichloropropene
53-SC-FBLK-W	92.05157	10061015	< 5.		UG/L	5/29/92	Y	cis-1,3-Dichloropropene
53-SC-FBLK-W	92.05157	10061026	< 5.		UG/L	5/29/92	Y	trans-1,3-Dichloropropene
53-SC-FBLK-W	92.05157	100414	< 5.		UG/L	5/29/92	Y	Ethylbenzene
53-SC-FBLK-W	92.05157	106934	< 5.		UG/L	5/29/92	Y	Ethylene dibromide
53-SC-FBLK-W	92.05157	591786	< 20.		UG/L	5/29/92	Y	2-Hexanone
53-SC-FBLK-W	92.05157	98828	< 5.		UG/L	5/29/92	Y	Isopropylbenzene
53-SC-FBLK-W	92.05157	99876	< 5.		UG/L	5/29/92	Y	4-Isopropyltoluene
53-SC-FBLK-W	92.05157	74884	< 5.		UG/L	5/29/92	Y	Methyl iodide
53-SC-FBLK-W	92.05157	108101	< 20.		UG/L	5/29/92	Y	4-Methyl-2-pentanone
53-SC-FBLK-W	92.05157	75092	< 5.		UG/L	5/29/92	Y	Methylene chloride
53-SC-FBLK-W	92.05157	103651	< 5.		UG/L	5/29/92	Y	Propylbenzene
53-SC-FBLK-W	92.05157	100425	< 5.		UG/L	5/29/92	Y	Styrene
53-SC-FBLK-W	92.05157	630206	< 5.		UG/L	5/29/92	Y	1,1,1,2-Tetrachloroethane
53-SC-FBLK-W	92.05157	79345	< 5.		UG/L	5/29/92	Y	1,1,2,2-Tetrachloroethane
53-SC-FBLK-W	92.05157	127184	< 5.		UG/L	5/29/92	Y	Tetrachloroethylene
53-SC-FBLK-W	92.05157	108883	< 5.		UG/L	5/29/92	Y	Toluene
53-SC-FBLK-W	92.05157	76131	< 5.		UG/L	5/29/92	Y	1,1,2-Trichloro-1,2,2-trifluoroethane
53-SC-FBLK-W	92.05157	71556	< 5.		UG/L	5/29/92	Y	1,1,1-Trichloroethane
53-SC-FBLK-W	92.05157	79005	< 5.		UG/L	5/29/92	Y	1,1,2-Trichloroethane
53-SC-FBLK-W	92.05157	79016	< 5.		UG/L	5/29/92	Y	Trichloroethene
53-SC-FBLK-W	92.05157	75694	< 5.		UG/L	5/29/92	Y	Trichlorofluoromethane
53-SC-FBLK-W	92.05157	96184	< 5.		UG/L	5/29/92	Y	1,2,3-Trichloropropane
53-SC-FBLK-W	92.05157	95636	< 5.		UG/L	5/29/92	Y	1,2,4-Trimethylbenzene
53-SC-FBLK-W	92.05157	108678	< 5.		UG/L	5/29/92	Y	1,3,5-Trimethylbenzene
53-SC-FBLK-W	92.05157	108054	< 10.		UG/L	5/29/92	Y	Vinyl acetate
53-SC-FBLK-W	92.05157	75014	< 10.		UG/L	5/29/92	Y	Vinyl chloride

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-FBLK-W	92.05157	1330207	< 5.		UG/L	5/29/92	Y	Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 92.05157

none

********** EM-9 ANALYTICAL REPORT **********

Matrix Spike Results for Sample # 92.05157 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 4/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-FBLK-W	92.05157	71432	50.	41.	UG/L	5/29/92		Benzene
53-SC-FBLK-W	92.05157	108907	50.	47.	UG/L	5/29/92		Chlorobenzene
53-SC-FBLK-W	92.05157	75343	< 50.	5.	UG/L	5/29/92		1,1-Dichloroethane
53-SC-FBLK-W	92.05157	108883	50.	46.	UG/L	5/29/92		Toluene
53-SC-FBLK-W	92.05157	79016	50.	27.	UG/L	5/29/92		Trichloroethene

Matrix Spike Duplicate Results for Sample # 92.05157 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 4/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-FBLK-W	92.05157	71432	50.	43.	UG/L	5/29/92		Benzene
53-SC-FBLK-W	92.05157	108907	50.	51.	UG/L	5/29/92		Chlorobenzene
53-SC-FBLK-W	92.05157	75343	< 50.	5.	UG/L	5/29/92		1,1-Dichloroethane
53-SC-FBLK-W	92.05157	108883	50.	50.	UG/L	5/29/92		Toluene
53-SC-FBLK-W	92.05157	79016	50.	29.	UG/L	5/29/92		Trichloroethene

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

EPA VOLATILES Prepared by: LAT on 2-Jun-1992

REQUEST NUMBER: 12787 MATRIX: W ANALYST: TONEY BEGAY PROGRAM CODE: W21M NOTEBOOK: NA PAGE: NA

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: PTGC 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 EM-9

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

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

Blank Results, Sample # 92.05384 Date Collected: 4/16/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 4/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20226	92.05384	67641	< 20.		UG/L	0.0		5/29/92	UNDER CONTROL	Acetone
00.20226	92.05384	71432	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Benzene
00.20226	92.05384	108861	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Bromobenzene
00.20226	92.05384	74975	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Bromochloromethane
00.20226	92.05384	75274	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Bromodichloromethane
00.20226	92.05384	75252	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Bromoform
00.20226	92.05384	74839	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Bromomethane
00.20226	92.05384	78933	< 20.		UG/L	0.0		5/29/92	UNDER CONTROL	2-Butanone
00.20226	92.05384	104518	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	n-Butylbenzene
00.20226	92.05384	135988	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	sec-Butylbenzene
00.20226	92.05384	98066	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	tert-Butylbenzene
00.20226	92.05384	75150	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Carbon disulfide
00.20226	92.05384	56235	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Carbon tetrachloride
00.20226	92.05384	108907	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Chlorobenzene
00.20226	92.05384	124481	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Chlorodibromomethane
00.20226	92.05384	75003	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Chloroethane
00.20226	92.05384	67663	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Chloroform
00.20226	92.05384	74873	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Chloromethane
00.20226	92.05384	95498	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	o-Chlorotoluene
00.20226	92.05384	106434	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	p-Chlorotoluene
00.20226	92.05384	96128	< 10.		UG/L	0.0		5/29/92	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
00.20226	92.05384	106934	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2-Dibromoethane
00.20226	92.05384	74953	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Dibromomethane
00.20226	92.05384	95501	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.20226	92.05384	541731	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.20226	92.05384	106467	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.20226	92.05384	75718	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Dichlorodifluoromethane
00.20226	92.05384	75343	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1-Dichloroethane
00.20226	92.05384	107062	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2-Dichloroethane
00.20226	92.05384	75354	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1-Dichloroethene
00.20226	92.05384	156605	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	trans-1,2-Dichloroethene
00.20226	92.05384	156592	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	cis-1,2-Dichloroethylene
00.20226	92.05384	78875	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2-Dichloropropane
00.20226	92.05384	142289	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,3-Dichloropropane
00.20226	92.05384	594207	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	2,2-Dichloropropane
00.20226	92.05384	563586	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1-Dichloropropene
00.20226	92.05384	10061015	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	cis-1,3-Dichloropropene
00.20226	92.05384	10061026	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	trans-1,3-Dichloropropene
00.20226	92.05384	100414	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Ethylbenzene
00.20226	92.05384	106934	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Ethylene dibromide
00.20226	92.05384	591786	< 20.		UG/L	0.0		5/29/92	UNDER CONTROL	2-Hexanone
00.20226	92.05384	98828	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Isopropylbenzene
00.20226	92.05384	99876	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	4-Isopropyltoluene
00.20226	92.05384	74884	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Methyl iodide
00.20226	92.05384	108101	< 20.		UG/L	0.0		5/29/92	UNDER CONTROL	4-Methyl-2-pentanone
00.20226	92.05384	75092	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Methylene chloride
00.20226	92.05384	103651	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Propylbenzene
00.20226	92.05384	100425	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Styrene
00.20226	92.05384	630206	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1,1,2-Tetrachloroethane
00.20226	92.05384	79345	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1,2,2-Tetrachloroethane
00.20226	92.05384	127184	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Tetrachloroethylene
00.20226	92.05384	108883	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Toluene
00.20226	92.05384	76131	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroetha
00.20226	92.05384	71556	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1,1-Trichloroethane
00.20226	92.05384	79005	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1,2-Trichloroethane
00.20226	92.05384	79016	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Trichloroethene
00.20226	92.05384	75694	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Trichlorofluoromethane

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

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20226	92.05384	96184	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2,3-Trichloropropane
00.20226	92.05384	95636	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2,4-Trimethylbenzene
00.20226	92.05384	108678	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,3,5-Trimethylbenzene
00.20226	92.05384	108054	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Vinyl acetate
00.20226	92.05384	75014	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Vinyl chloride
00.20226	92.05384	1330207	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Mixed-Xylenes (o ± m ± p)

Blank Results, Sample # 92.05385 Date Collected: 4/16/92 Date Received: 4/16/92 Date Extracted: 5/05/92 Date Analyzed: 5/05/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20226	92.05385	67641	< 20.		UG/L	0.0		5/29/92	UNDER CONTROL	Acetone
00.20226	92.05385	71432	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Benzene
00.20226	92.05385	108861	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Bromobenzene
00.20226	92.05385	74975	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Bromochloromethane
00.20226	92.05385	75274	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Bromodichloromethane
00.20226	92.05385	75252	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Bromoform
00.20226	92.05385	74839	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Bromomethane
00.20226	92.05385	78933	< 20.		UG/L	0.0		5/29/92	UNDER CONTROL	2-Butanone
00.20226	92.05385	104518	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	n-Butylbenzene
00.20226	92.05385	135988	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	sec-Butylbenzene
00.20226	92.05385	98066	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	tert-Butylbenzene
00.20226	92.05385	75150	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Carbon disulfide
00.20226	92.05385	56235	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Carbon tetrachloride
00.20226	92.05385	108907	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Chlorobenzene
00.20226	92.05385	124481	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Chlorodibromomethane

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

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20226	92.05385	75003	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Chloroethane
00.20226	92.05385	67663	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Chloroform
00.20226	92.05385	74873	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Chloromethane
00.20226	92.05385	95498	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	o-Chlorotoluene
00.20226	92.05385	106434	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	p-Chlorotoluene
00.20226	92.05385	96128	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2-Dibromo-3-chloropropane
00.20226	92.05385	106934	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2-Dibromoethane
00.20226	92.05385	74953	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Dibromomethane
00.20226	92.05385	95501	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.20226	92.05385	541731	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.20226	92.05385	106467	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.20226	92.05385	75718	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Dichlorodifluoromethane
00.20226	92.05385	75343	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1-Dichloroethane
00.20226	92.05385	107062	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2-Dichloroethane
00.20226	92.05385	75354	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1-Dichloroethene
00.20226	92.05385	156605	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	trans-1,2-Dichloroethene
00.20226	92.05385	156592	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	cis-1,2-Dichloroethylene
00.20226	92.05385	78875	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2-Dichloropropane
00.20226	92.05385	142289	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,3-Dichloropropane
00.20226	92.05385	594207	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	2,2-Dichloropropane
00.20226	92.05385	563586	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1-Dichloropropene
00.20226	92.05385	10061015	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	cis-1,3-Dichloropropene
00.20226	92.05385	10061026	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	trans-1,3-Dichloropropene
00.20226	92.05385	100414	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Ethylbenzene
00.20226	92.05385	106934	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Ethylene dibromide
00.20226	92.05385	591786	< 20.		UG/L	0.0		5/29/92	UNDER CONTROL	2-Hexanone
00.20226	92.05385	98828	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Isopropylbenzene
00.20226	92.05385	99876	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	4-Isopropyltoluene
00.20226	92.05385	74884	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Methyl iodide
00.20226	92.05385	108101	< 20.		UG/L	0.0		5/29/92	UNDER CONTROL	4-Methyl-2-pentanone
00.20226	92.05385	75092	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Methylene chloride
00.20226	92.05385	103651	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Propylbenzene
00.20226	92.05385	100425	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Styrene
00.20226	92.05385	630206	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1,1,2-Tetrachloroethane
00.20226	92.05385	79345	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1,2,2-Tetrachloroethane
00.20226	92.05385	127184	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Tetrachloroethylene

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

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20226	92.05385	108883	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Toluene
00.20226	92.05385	76131	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroetha
00.20226	92.05385	71556	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1,1-Trichloroethane
00.20226	92.05385	79005	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1,2-Trichloroethane
00.20226	92.05385	79016	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Trichloroethene
00.20226	92.05385	75694	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Trichlorofluoromethane
00.20226	92.05385	96184	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2,3-Trichloropropane
00.20226	92.05385	95636	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2,4-Trimethylbenzene
00.20226	92.05385	108678	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,3,5-Trimethylbenzene
00.20226	92.05385	108054	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Vinyl acetate
00.20226	92.05385	75014	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Vinyl chloride
00.20226	92.05385	1330207	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Mixed-Xylenes (o ± m ± p)

Blank Results, Sample # 92.06439 Date Collected: 5/08/92 Date Received: 5/08/92 Date Extracted: 4/21/92 Date Analyzed: 4/21/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20226	92.06439	67641	< 20.		UG/L	0.0		5/29/92	UNDER CONTROL	Acetone
00.20226	92.06439	71432	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Benzene
00.20226	92.06439	108861	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Bromobenzene
00.20226	92.06439	74975	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Bromochloromethane
00.20226	92.06439	75274	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Bromodichloromethane
00.20226	92.06439	75252	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Bromoform
00.20226	92.06439	74839	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Bromomethane
00.20226	92.06439	78933	< 20.		UG/L	0.0		5/29/92	UNDER CONTROL	2-Butanone
00.20226	92.06439	104518	< 5.		UG/L	0.0		5/29/92	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
00.20226	92.06439	135988	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	sec-Butylbenzene
00.20226	92.06439	98066	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	tert-Butylbenzene
00.20226	92.06439	75150	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Carbon disulfide
00.20226	92.06439	56235	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Carbon tetrachloride
00.20226	92.06439	108907	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Chlorobenzene
00.20226	92.06439	124481	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Chlorodibromomethane
00.20226	92.06439	75003	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Chloroethane
00.20226	92.06439	67663	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Chloroform
00.20226	92.06439	74873	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Chloromethane
00.20226	92.06439	95498	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	o-Chlorotoluene
00.20226	92.06439	106434	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	p-Chlorotoluene
00.20226	92.06439	96128	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2-Dibromo-3-chloropropane
00.20226	92.06439	106934	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2-Dibromoethane
00.20226	92.06439	74953	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Dibromomethane
00.20226	92.06439	95501	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.20226	92.06439	541731	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.20226	92.06439	106467	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.20226	92.06439	75718	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Dichlorodifluoromethane
00.20226	92.06439	75343	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1-Dichloroethane
00.20226	92.06439	107062	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2-Dichloroethane
00.20226	92.06439	75354	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1-Dichloroethene
00.20226	92.06439	156605	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	trans-1,2-Dichloroethene
00.20226	92.06439	156592	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	cis-1,2-Dichloroethylene
00.20226	92.06439	78875	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2-Dichloropropane
00.20226	92.06439	142289	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,3-Dichloropropane
00.20226	92.06439	594207	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	2,2-Dichloropropane
00.20226	92.06439	563586	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1-Dichloropropene
00.20226	92.06439	10061015	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	cis-1,3-Dichloropropene
00.20226	92.06439	10061026	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	trans-1,3-Dichloropropene
00.20226	92.06439	100414	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Ethylbenzene
00.20226	92.06439	106934	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Ethylene dibromide
00.20226	92.06439	591786	< 20.		UG/L	0.0		5/29/92	UNDER CONTROL	2-Hexanone
00.20226	92.06439	98828	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Isopropylbenzene
00.20226	92.06439	99876	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	4-Isopropyltoluene
00.20226	92.06439	74884	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Methyl iodide
00.20226	92.06439	108101	< 20.		UG/L	0.0		5/29/92	UNDER CONTROL	4-Methyl-2-pentanone

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

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20226	92.06439	75092	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Methylene chloride
00.20226	92.06439	103651	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Propylbenzene
00.20226	92.06439	100425	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Styrene
00.20226	92.06439	630206	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1,1,2-Tetrachloroethane
00.20226	92.06439	79345	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1,2,2-Tetrachloroethane
00.20226	92.06439	127184	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Tetrachloroethylene
00.20226	92.06439	108883	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Toluene
00.20226	92.06439	76131	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroetha
00.20226	92.06439	71556	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1,1-Trichloroethane
00.20226	92.06439	79005	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1,2-Trichloroethane
00.20226	92.06439	79016	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Trichloroethene
00.20226	92.06439	75694	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Trichlorofluoromethane
00.20226	92.06439	96184	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2,3-Trichloropropane
00.20226	92.06439	95636	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2,4-Trimethylbenzene
00.20226	92.06439	108678	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,3,5-Trimethylbenzene
00.20226	92.06439	108054	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Vinyl acetate
00.20226	92.06439	75014	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Vinyl chloride
00.20226	92.06439	1330207	< 5.		UG/L	0.0		5/29/92	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 # 92.05383 Date Collected: 4/16/92 Date Received: 4/16/92 Date Extracted: 4/21/92 Date Analyzed: 4/21/92

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
92.05383	67641	46.	13.8	UG/L	70.	7.	5/29/92	UNDER CONTROL	Acetone
92.05383	71432	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Benzene
92.05383	108861	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Bromobenzene
92.05383	74975	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Bromochloromethane
92.05383	75274	56.	16.8	UG/L	66.	7.	5/29/92	UNDER CONTROL	Bromodichloromethane
92.05383	75252	60.	18.	UG/L	70.	7.	5/29/92	UNDER CONTROL	Bromoform
92.05383	74839	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Bromomethane
92.05383	78933	50.	15.	UG/L	74.	7.	5/29/92	UNDER CONTROL	2-Butanone
92.05383	104518	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	n-Butylbenzene
92.05383	135988	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	sec-Butylbenzene
92.05383	98066	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	tert-Butylbenzene
92.05383	75150	46.	13.8	UG/L	67.	7.	5/29/92	UNDER CONTROL	Carbon disulfide
92.05383	56235	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Carbon tetrachloride
92.05383	108907	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Chlorobenzene
92.05383	124481	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Chlorodibromomethane
92.05383	75003	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Chloroethane
92.05383	67663	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Chloroform
92.05383	74873	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Chloromethane
92.05383	95498	34.	10.2	UG/L	62.	6.	5/29/92	WARNING 2-3 SIG	o-Chlorotoluene
92.05383	106434	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	p-Chlorotoluene
92.05383	96128	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2-Dibromo-3-chloropropane
92.05383	106934	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2-Dibromoethane
92.05383	74953	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Dibromomethane
92.05383	95501	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	o-Dichlorobenzene (1,2)
92.05383	541731	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	m-Dichlorobenzene (1,3)
92.05383	106467	24.	7.2	UG/L	61.	6.	5/29/92	OUT OF CONTROL	p-Dichlorobenzene (1,4)

92.05383	75718	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Dichlorodifluoromethane
92.05383	75343	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1-Dichloroethane
92.05383	107062	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2-Dichloroethane
92.05383	75354	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1-Dichloroethene
92.05383	156605	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	trans-1,2-Dichloroethene
92.05383	156592	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	cis-1,2-Dichloroethylene
92.05383	78875	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2-Dichloropropane
92.05383	142289	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,3-Dichloropropane
92.05383	594207	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	2,2-Dichloropropane
92.05383	563586	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1-Dichloropropene
92.05383	10061015	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	cis-1,3-Dichloropropene
92.05383	10061026	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	trans-1,3-Dichloropropene
92.05383	100414	30.	9.	UG/L	65.	6.	5/29/92	OUT OF CONTROL	Ethylbenzene
92.05383	106934	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Ethylene dibromide
92.05383	591786	50.	15.	UG/L	63.	6.	5/29/92	UNDER CONTROL	2-Hexanone
92.05383	98828	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Isopropylbenzene
92.05383	99876	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	4-Isopropyltoluene
92.05383	74884	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Methyl iodide
92.05383	108101	58.	17.4	UG/L	69.	7.	5/29/92	UNDER CONTROL	4-Methyl-2-pentanone
92.05383	75092	76.	22.8	UG/L	71.	7.	5/29/92	UNDER CONTROL	Methylene chloride
92.05383	103651	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Propylbenzene
92.05383	100425	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Styrene
92.05383	630206	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1,1,2-Tetrachloroethane
92.05383	79345	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1,2,2-Tetrachloroethane
92.05383	127184	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Tetrachloroethylene
92.05383	108883	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Toluene
92.05383	76131	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroethane
92.05383	71556	54.	16.2	UG/L	0.0		5/29/92	OUT OF CONTROL	1,1,1-Trichloroethane
92.05383	79005	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,1,2-Trichloroethane
92.05383	79016	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Trichloroethene
92.05383	75694	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	Trichlorofluoromethane
92.05383	96184	72.	21.6	UG/L	70.	7.	5/29/92	UNDER CONTROL	1,2,3-Trichloropropane
92.05383	95636	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,2,4-Trimethylbenzene
92.05383	108678	< 5.		UG/L	0.0		5/29/92	UNDER CONTROL	1,3,5-Trimethylbenzene
92.05383	108054	< 10.		UG/L	70.	7.	5/29/92	OUT OF CONTROL	Vinyl acetate
92.05383	75014	< 10.		UG/L	0.0		5/29/92	UNDER CONTROL	Vinyl chloride
92.05383	1330207	< 5.		UG/L	0.0		5/29/92	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)

SAMPLE NUMBER	UNITS	Surrogate 1	Surrogate 2	Surrogate 3	COMPLETION DATE	SAMPLE TYPE
92.05154	%	102.8	106.4	97.6	29-May-1992	
92.05155	%	104.2	107.8	98.4	29-May-1992	
92.05156	%	101.64	101.72	107.16	29-May-1992	
92.05157	%	101.4	107.	98.	29-May-1992	
92.05157	%	103.4	103.6	96.8	29-May-1992	MS
92.05157	%	101.	103.8	95.2	29-May-1992	MSD
92.05383	%	102.	102.8	96.8	29-May-1992	
92.05384	%	94.4	107.	102.8	29-May-1992	B
92.05385	%	106.8	101.	100.4	29-May-1992	B
92.06439	%	102.32	99.02	101.6	29-May-1992	B

EPA Limits:

Water	%	76 - 114	88 - 110	86 - 115
Soil	%	70 - 121	81 - 117	74 - 121

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

REPORT NUMBER: 14122	L. Bigthorne's for TRB	L. Bigthorne		mag
	Analyst	Reviewer	Section Leader	QA Officer
	6/2/92	6/2/92	6/6/92	6/8/92
	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: 1986,' LA-11114-MS, pp. 3-4.

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LOS ALAMOS NATIONAL LABORATORY
HEALTH, SAFETY AND ENVIRONMENT DIVISION
HSE-9
SURROGATE RECOVERIES FOR SEMI-VOLATILES
IN SOIL TYPE MATRICES

REQUEST #: 12783

NUMBER OF SAMPLES: 1
MATRIX
ANALYST: MM
Date: 06/29/92

SURROGATE RECOVERIES

SURROGATE
RECOVERIES IN PERCENT (%)

	SAMPLE NUMBERS	TYPE	2-FLUORO-PHENOL	PHENOL (D6)	NITRO-BENZENE (D5)	2-FLUORO-BIPHENYL	2,4,6-TRIBROMO-PHENOL	TERPHENYL (D14)
1	S92.05373	SAMPLE	38	47	44	58	79	77
2								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								

Average % Surrogate Recovery...	38	47	44	58	79	77
Defined Lower QC Limits (%)....	23	24	23	30	19	18
Defined Upper QC Limits (%)....	121	113	120	115	122	137
Observed Lower QC Limits (%)...	38	47	44	58	79	77
Observed Upper QC Limits (%)...	38	47	44	58	79	77

** If % Surrogate Recovery is Followed by a "*", it is out of QC Limits.

Reviewed By: 8/19/92

LOS ALAMOS NATIONAL LABORATORY
HEALTH, SAFETY AND ENVIRONMENT DIVISION
HSE-9
MATRIX SPIKE RECOVERIES FOR SEMI-VOLATILES

		DRY WT/VOL (G or L)		AMOUNT SPIKED IN UG/KG ACIDS	BASES	LOQ (UG/KG)
REQUEST #:	12783					
NUMBER OF SAMPLES:	22					
SPIKE ID: (STARTS M OR E)	M92.05120	SPIKE	10.47	9551	4776	960
SPIKE DUP ID: (STARTS D OR F)	D92.05120	SPIKE-DUP	10.38	9634	4817	960
RAW DATA WITH:	12783					
ANALYST:	MM					

	SPIKE REC.	SPIKE-DUP REC.	SPIKE % REC.	SPIKE-DUP % REC.	RPD	LOW. REC. LIM.	UPP. REC. LIM.	RPD LIM.
PHENOL	4300	3600	45%	37%	19%	26	90	35
2-CHLOROPHENOL	4200	3200	44%	33%	28%	25	102	50
1,4-DICHLOROBENZENE	2200	1500	46%	31%	39%*	28	104	27
N-NITROSO-DI-N-PROPYLAMINE	2600	2300	54%	48%	13%	41	126	38
1,2,4-TRICLOROBENZENE	2700	2200	57%	46%	21%	38	107	23
4-CHLORO-3-METHYLPHENOL	5800	6000	61%	62%	3%	26	103	33
ACENAPHTHENE	3100	2800	65%	58%	11%	31	137	19
4-NITROPHENOL	5800	5100	61%	53%	14%	11	114	50
2,4-DINITROTOLUENE	3100	2900	65%	60%	8%	28	89	47
PENTACHLOROPHENOL	6900	5800	72%	60%	18%	17	109	47
PYRENE	3500	3300	73%	69%	7%	35	142	36

"*" If % Matrix Recovery is Followed by a "*", it is out of QC Limits.

Reviewed By: JKG 8/19/92

LOS ALAMOS NATIONAL LABORATORY
HEALTH, SAFETY AND ENVIRONMENT DIVISION
HSE-9
SURROGATE RECOVERIES FOR SEMI-VOLATILES
IN SOIL TYPE MATRICES

REQUEST #: 12783

NUMBER OF SAMPLES: 22
MATRIX C
ANALYST: MM
Date: 08/18/92

SURROGATE RECOVERIES

SURROGATE
RECOVERIES IN PERCENT (%)

	SAMPLE NUMBERS	TYPE	2-FLUORO-PHENOL	PHENOL (D6)	NITRO-BENZENE (D5)	2-FLUORO-BIPHENYL	2,4,6-TRIBROMO-PHENOL	TERPHENYL (D14)
1	B92.05375	BLANK	8 *	14 *	12 *	20 *	72	83
2	B92.05376	BLANK	35	42	43	55	70	80
3	M92.05120	MATRIX SPIK	44	54	53	65	96	83
4	D92.05120	MATRIX SP-D	26	43	41	57	85	79
5	S92.05374	SAMPLE	50	63	62	78	90	100
6	S92.05120	SAMPLE	25	38	36	51	86	81
7	S92.05121	SAMPLE	44	53	52	65	80	83
8	S92.05122	SAMPLE	39	52	55	69	90	84
9	S92.05123	SAMPLE	42	52	56	70	84	77
10	S92.05124	SAMPLE	33	48	51	63	81	75
11	S92.05125	SAMPLE	41	52	56	71	82	70
12	S92.05126	SAMPLE	35	49	52	58	87	77
13	S92.05127	SAMPLE	40	52	51	61	78	69
14	S92.05128	SAMPLE	30	43	42	55	78	73
15	S92.05129	SAMPLE	22 *	40	41	66	92	77
16	S92.05130	SAMPLE	28	44	43	60	71	82
17	S92.05131	SAMPLE	25	39	35	48	72	83
18	S92.05132	SAMPLE	34	46	45	59	75	77
19	S92.05133	SAMPLE	50	59	53	78	92	93
20	S92.05134	SAMPLE	46	55	54	79	89	93
21	S92.05135	SAMPLE	36	48	45	66	80	88
22	S92.05136	SAMPLE	32	43	41	63	85	85
	Average % Surrogate Recovery...		35	46	46	59	83	83
	Defined Lower QC Limits (%)....		23	24	23	30	19	18
	Defined Upper QC Limits (%)....		121	113	120	115	122	137
	Observed Lower QC Limits (%)...		8	14	12	20	70	75
	Observed Upper QC Limits (%)...		50	63	62	78	96	100

"*" If % Surrogate Recovery is Followed by a "*", it is out of QC Limits.

Reviewed By: AC 8/17/92

186

EM-9 SEMIVOLATILE ORGANIC ANALYSIS
SUMMARY OF ANALYTICAL RESULTS

To: Phillip Fresquez
Thru: Chris Leibman
From: Matthew Monagle

Request Number: 12783
Matrix: Water
Summary Date: 19 August 1992

Summary (cont.):

Only one target compound was found above the reporting limit in only one of the samples. Tentatively identified compounds, principally saturated hydrocarbons and cellusolves were found in all the samples above the reporting limit. No target compounds and few tentatively identified compounds (TIC's) were found in the blanks. For a complete listing of the TIC's please contact Laura Kelly at 5-4993.

Analytical holding times for these samples <u>were</u> met. Preparatory holding times for the samples <u>were</u> met.

Surrogate and Matrix Spike Recoveries:

Surrogate recoveries for all samples **were** within EPA guidelines. Surrogate recoveries for the first blank were outside EPA guidelines. Recoveries for the second blank were well within guidelines. Matrix spike recoveries were well within EPA guidelines.

Problems encountered:

Levels of quantitation for these samples are higher than normal. This is due to the extremely wet nature of the sample which led to less sample being extracted. For samples 92.05133, 92.05134, 92.05135, the final extract could only be concetrated to 10 ml's due to high levels of co-extracted material.

Keep in mind that the low recoveries for the first blank make it difficult to determine whether the bis-2-ethylhexyphthalate is due to laboratory contamination. No other problems were noted with the analysis of these samples.

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MG 9/3/92

EM-9 SEMIVOLATILE ORGANIC ANALYSIS
SUMMARY OF ANALYTICAL RESULTS

To: Phillip Fresquez
Thru: Chris Leibman
From: Matthew Monagle

Request Number: 12783
Matrix: Water
Summary Date: 19 August 1992

Sample ID	Target Compounds Found	Amount (ug/kg)	Level of Quantitation (ug/kg)	TIC's
92.05131	NONE		970	Yes
92.05132	NONE		950	Yes
92.05133	NONE		10,000	Yes
92.05134	NONE		10,000	Yes
92.09335	NONE		10,000	Yes
92.09336	NONE		1000	Yes

Summary:

Seventeen sludge samples were received by Sandra Cisneros Flores (EM-9) on 16 April 1992 at TA-50. The samples, along with a method blank were extracted by continuous liquid-liquid extraction on 27 and 28 April 1992.

Surrogate compounds were added to the matrix to determine the efficiency of the extraction. Due to radioactivity concerns, the analysis was performed at TA-35 on 23, 24, 28, 29 and 31 May 1992. Some analysis were also completed on 01 June 1992. Analysis were done using a J&W DB-5MS (0.25id X 0.5 film X 30m) capillary column, HP 5890 gas chromatograph and an HP 5970 mass spectrometer. This method is consistent with EPA method 8270 in SW-846

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a/3/92

EM-9 SEMIVOLATILE ORGANIC ANALYSIS
SUMMARY OF ANALYTICAL RESULTS

To: Phillip Fresquez
Thru: Chris Leibman CL
From: Matthew Monagle

Request Number: 12783
Matrix: Water
Summary Date: 19 August 1992
Page 1 of 3

Sample ID	Target Compounds Found	Amount (ug/kg)	Level of Quantitation (ug/kg)	TIC's
Blank (27-Apr.-1992)	NONE *		330	Yes
Blank (28-Apr.-1992)	NONE		330	Yes
92.05120	NONE		990	Yes
92.05121	NONE		950	Yes
92.05122	NONE		950	Yes
92.05123	NONE		950	Yes
92.09314	NONE		1000	Yes
92.05125	NONE		970	Yes
92.05126	NONE		990	Yes
92.05127	NONE		950	Yes
92.05128	NONE		990	Yes
92.05129	NONE		940	Yes
92.05130	Bis-2-ethyl-hexylphthalate	1300	940	Yes

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9/3/92

HSE-9 SEMIVOLATILE ORGANIC ANALYSIS
SUMMARY OF ANALYTICAL RESULTS

To: Phil Fresquez
Thru: Chris Leibman
From: Matthew Monagle

Reques Number: 12787
Matrix: Water
Summary Date: 31 May 1992
Page 1 of 2

Sample ID	Target Compounds Found	Amount (ug/L)	Level of Quantitation (ug/L)	TIC's
Blank (21-Apr.-1992)	NONE		11	Yes
92.05154	NONE		11	Yes
92.05155	NONE		11	Yes
92.05156	NONE		11	Yes
92.05157	NONE		11	Yes

Summary:

Four water samples were received by Sandra Cisneros Flores (EM-9) on 20 April 1992 at TA-59. The samples (along with a method blank, a blank spike, blank spike duplicate and quality control blind) were extracted by continuous liquid-liquid extraction on 21 April 1992.

Surrogate compounds were added to the matrix to determine the efficiency of the extraction. Analysis was performed on 04, 07, and 11 May, 1992 at TA-35 by capillary gas chromatography/mass spectrometry using methods consistent with EPA method 8270, SW-846.

No target compounds were found above the reporting limit. No target compounds were found in the blank.

Few tentatively identified compounds were found above the reporting limit these samples. Tentatively identified compounds (TIC's) were found in the blank. For a complete listing of the TIC's please contact Laura Tsiagkouris at 5-4993.

Analytical holding times for these samples <u>were</u> met. Preparatory holding times for the samples were also met.

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6/10/92

HSE-9 SEMIVOLATILE ORGANIC ANALYSIS
SUMMARY OF ANALYTICAL RESULTS

To: Phil Fresquez
Thru: Chris Leibman
From: Matthew Monagle

Request Number: 12787
Matrix: Water
Summary Date: 31 May 1992

Surrogate and Matrix Spike Recoveries:

Surrogate recoveries for sample S92.05157 **were not** within EPA guidelines. Recoveries for 2-Fluorophenol were below 5%. The balance of the surrogates in this sample were within the guidelines. Surrogate recoveries for the balance of samples were well within EPA guidelines. Blank spike duplicate recoveries were low for several constituents. This in turn made the Relative Percent Deviation between the spike and spike duplicate high. This does not necessarily impact the sample analytical data. The balance of the matrix spike recoveries were also well within EPA guidelines.

Problems encountered:

Instrument problems were encountered during the analysis of these samples which accounts for the large time gap in the analysis of these samples. I apologize for this and hope that the problem is fixed so that it won't happen again. No other problems were encountered with the analysis of these samples.

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6/10/92

LOS ALAMOS NATIONAL LABORATORY
HEALTH, SAFETY AND ENVIRONMENT DIVISION
HSE-9
SURROGATE RECOVERIES FOR SEMI-VOLATILES
IN WATER

REQUEST #: 12787

NUMBER OF SAMPLES: 7
MATRIX W
ANALYST: MM
Date: 06/14/92

SURROGATE RECOVERIES

SURROGATE
RECOVERIES IN PERCENT (%)

	SAMPLE NUMBERS	TYPE	2-FLUORO-PHENOL	PHENOL (D6)	NITRO-BENZENE (D5)	2-FLUORO-BIPHENYL	2,4,6-TRIBROMO-PHENOL	TERPHENYL (D14)
1	B92.05361	BLANK	57	60	68	63	96	84
2	E92.05361	BLANK SPIKE	58	56	56	62	85	75
3	F92.05361	BLANK SP-DU	34	44	38	52	77	66
4	S92.05154	SAMPLE	63	68	60	61	82	45
	S92.05155	SAMPLE	64	67	65	64	84	42
6	S92.05156	SAMPLE	45	47	59	57	103	76
7	S92.05157	SAMPLE	5 *	24	40	45	38	89
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
Average % Surrogate Recovery...			47	52	55	58	81	68
Defined Lower QC Limits (%)....			21	10	35	43	10	33
Defined Upper QC Limits (%)....			100	94	114	116	123	141
Observed Lower QC Limits (%)...			5	24	38	45	38	42
Observed Upper QC Limits (%)...			64	68	68	64	103	89

*** If % Surrogate Recovery is Followed by a "*", it is out of QC Limits.

Reviewed By: 6/18/92

LOS ALAMOS NATIONAL LABORATORY
HEALTH, SAFETY AND ENVIRONMENT DIVISION
HSE-9
MATRIX SPIKE RECOVERIES FOR SEMI-VOLATILES

		DRY WT/VOL (G or L)		AMOUNT SPIKED (50 OR 100 ug/ml) IN UG/KG or UG/L		
REQUEST #:	12787			ACIDS	BASES	LOQ (UG/KG)
NUMBER OF SAMPLES:	7					
SPIKE ID: (STARTS M OR E)	E92.05361	SPIKE	1	100	50	10
SPIKE DUP ID: (STARTS D OR F)	F92.05361	SPIKE-DUP	1	100	50	10
RAW DATA WITH:	12772					
ANALYST:	MM					

	SPIKE REC.	SPIKE-DUP REC.	SPIKE % REC.	SPIKE-DUP % REC.	RPD	LOW. REC. LIM.	UPP. REC. LIM.	RPD LIM.
P'	56	42	56%	42%	29%	12	89	42
2-CHLOROPHENOL	58	38	58%	38%	42%*	27	123	40
1,4-DICHLOROBENZENE	28	<LOQ	56%	0%*	200%*	36	97	28
N-NITROSO-DI-N-PROPYLAMINE	26	22	52%	44%	17%	41	126	38
1,2,4-TRICHLOROBENZENE	28	18	56%	34%*	43%*	39	98	23
4-CHLORO-3-METHYLPHENOL	51	35	51%	35%	3%	23	97	42
ACENAPHTHENE	28	24	56%	48%	15%	46	118	31
4-NITROPHENOL	51	45	51%	45%	10%	10	80	50
2,4-DINITROTOLUENE	28	27	56%	54%	4%	24	96	38
PENTACHLOROPHENOL	64	62	64%	62%	3%	9	103	50
PHENOL	23	27	46%	54%	16%	26	127	31

If a % Matrix Recovery is followed by a "*", it is out of QC limits.

Reviewed by: 4/8/92

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAT on 18-Jun-1992

REQUEST NUMBER: 12787 MATRIX: W ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 267

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05154 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/20/92 Date Analyzed: 5/04/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-W	92.05154	83329	< 11.		UG/L	6/18/92		Acenaphthene
53-SC-G1-W	92.05154	208968	< 11.		UG/L	6/18/92		Acenaphthylene
53-SC-G1-W	92.05154	62533	< 11.		UG/L	6/18/92		Aniline
53-SC-G1-W	92.05154	120127	< 11.		UG/L	6/18/92		Anthracene
53-SC-G1-W	92.05154	103333	< 11.		UG/L	6/18/92		Azobenzene
53-SC-G1-W	92.05154	92875	< 11.		UG/L	6/18/92		m-Benzidine
53-SC-G1-W	92.05154	56553	< 11.		UG/L	6/18/92		Benzo[a]anthracene
53-SC-G1-W	92.05154	50328	< 11.		UG/L	6/18/92		Benzo[a]pyrene
53-SC-G1-W	92.05154	205992	< 11.		UG/L	6/18/92		Benzo[b]fluoranthene
53-SC-G1-W	92.05154	191242	< 11.		UG/L	6/18/92		Benzo[g,h,i]perylene
53-SC-G1-W	92.05154	207089	< 11.		UG/L	6/18/92		Benzo[k]fluoranthene
53-SC-G1-W	92.05154	65850	< 11.		UG/L	6/18/92		Benzoic acid
53-SC-G1-W	92.05154	100516	< 11.		UG/L	6/18/92		Benzyl alcohol
53-SC-G1-W	92.05154	111911	< 11.		UG/L	6/18/92		Bis(2-chloroethoxy)methane
53-SC-G1-W	92.05154	111444	< 11.		UG/L	6/18/92		Bis(2-chloroethyl)ether
53-SC-G1-W	92.05154	108601	< 11.		UG/L	6/18/92		Bis(2-chloroisopropyl)ether
53-SC-G1-W	92.05154	117817	< 11.		UG/L	6/18/92		Bis(2-ethylhexyl)phthalate
53-SC-G1-W	92.05154	101553	< 11.		UG/L	6/18/92		4-Bromophenylphenyl ether
53-SC-G1-W	92.05154	85687	< 11.		UG/L	6/18/92		Butyl benzyl phthalate
53-SC-G1-W	92.05154	59507	< 11.		UG/L	6/18/92		4-Chloro-3-methylphenol
53-SC-G1-W	92.05154	106478	< 11.		UG/L	6/18/92		4-Chloroaniline
53-SC-G1-W	92.05154	91587	< 11.		UG/L	6/18/92		2-Chloronaphthalene
53-SC-G1-W	92.05154	95578	< 11.		UG/L	6/18/92		o-Chlorophenol
53-SC-G1-W	92.05154	7005723	< 11.		UG/L	6/18/92		4-Chlorophenylphenyl ether
53-SC-G1-W	92.05154	218019	< 11.		UG/L	6/18/92		Chrysene
53-SC-G1-W	92.05154	84742	< 11.		UG/L	6/18/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-W	92.05154	117840	< 11.		UG/L	6/18/92		Di-n-octyl phthalate
53-SC-G1-W	92.05154	53703	< 11.		UG/L	6/18/92		Dibenzo[a,h]anthracene
53-SC-G1-W	92.05154	132649	< 11.		UG/L	6/18/92		Dibenzofuran
53-SC-G1-W	92.05154	95501	< 11.		UG/L	6/18/92		o-Dichlorobenzene (1,2)
53-SC-G1-W	92.05154	541731	< 11.		UG/L	6/18/92		m-Dichlorobenzene (1,3)
53-SC-G1-W	92.05154	106467	< 11.		UG/L	6/18/92		p-Dichlorobenzene (1,4)
53-SC-G1-W	92.05154	91941	< 11.		UG/L	6/18/92		3,3'-Dichlorobenzidine
53-SC-G1-W	92.05154	120832	< 11.		UG/L	6/18/92		2,4-Dichlorophenol
53-SC-G1-W	92.05154	84662	< 11.		UG/L	6/18/92		Diethyl phthalate
53-SC-G1-W	92.05154	131113	< 11.		UG/L	6/18/92		Dimethyl phthalate
53-SC-G1-W	92.05154	105679	< 11.		UG/L	6/18/92		2,4-Dimethylphenol
53-SC-G1-W	92.05154	51285	< 11.		UG/L	6/18/92		2,4-Dinitrophenol
53-SC-G1-W	92.05154	121142	< 11.		UG/L	6/18/92		2,4-Dinitrotoluene
53-SC-G1-W	92.05154	606202	< 11.		UG/L	6/18/92		2,6-Dinitrotoluene
53-SC-G1-W	92.05154	206440	< 11.		UG/L	6/18/92		Fluoranthene
53-SC-G1-W	92.05154	86737	< 11.		UG/L	6/18/92		Fluorene
53-SC-G1-W	92.05154	118741	< 11.		UG/L	6/18/92		Hexachlorobenzene
53-SC-G1-W	92.05154	87683	< 11.		UG/L	6/18/92		Hexachlorobutadiene
53-SC-G1-W	92.05154	77474	< 11.		UG/L	6/18/92		Hexachlorocyclopentadiene
53-SC-G1-W	92.05154	67721	< 11.		UG/L	6/18/92		Hexachloroethane
53-SC-G1-W	92.05154	193395	< 11.		UG/L	6/18/92		Indeno[1,2,3-cd]pyrene
53-SC-G1-W	92.05154	78591	< 11.		UG/L	6/18/92		Isophorone
53-SC-G1-W	92.05154	534521	< 11.		UG/L	6/18/92		2-Methyl-4,6-dinitrophenol
53-SC-G1-W	92.05154	91576	< 11.		UG/L	6/18/92		2-Methylnaphthalene
53-SC-G1-W	92.05154	95487	< 11.		UG/L	6/18/92		2-Methylphenol
53-SC-G1-W	92.05154	106445	< 11.		UG/L	6/18/92		4-Methylphenol
53-SC-G1-W	92.05154	91203	< 11.		UG/L	6/18/92		Naphthalene
53-SC-G1-W	92.05154	88744	< 11.		UG/L	6/18/92		2-Nitroaniline
53-SC-G1-W	92.05154	99092	< 11.		UG/L	6/18/92		3-Nitroaniline
53-SC-G1-W	92.05154	100016	< 11.		UG/L	6/18/92		4-Nitroaniline
53-SC-G1-W	92.05154	98953	< 11.		UG/L	6/18/92		Nitrobenzene
53-SC-G1-W	92.05154	88755	< 11.		UG/L	6/18/92		2-Nitrophenol
53-SC-G1-W	92.05154	100027	< 11.		UG/L	6/18/92		4-Nitrophenol
53-SC-G1-W	92.05154	621647	< 11.		UG/L	6/18/92		N-Nitrosodi-n-propylamine
53-SC-G1-W	92.05154	62759	< 11.		UG/L	6/18/92		N-Nitrosodimethylamine
53-SC-G1-W	92.05154	86306	< 11.		UG/L	6/18/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-W	92.05154	87865	< 11.		UG/L	6/18/92		Pentachlorophenol
53-SC-G1-W	92.05154	85018	< 11.		UG/L	6/18/92		Phenanthrene
53-SC-G1-W	92.05154	108952	< 11.		UG/L	6/18/92		Phenol
53-SC-G1-W	92.05154	129000	< 11.		UG/L	6/18/92		Pyrene
53-SC-G1-W	92.05154	120821	< 11.		UG/L	6/18/92		1,2,4-Trichlorobenzene
53-SC-G1-W	92.05154	95954	< 11.		UG/L	6/18/92		2,4,5-Trichlorophenol
53-SC-G1-W	92.05154	88062	< 11.		UG/L	6/18/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05154

none

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAT on 18-Jun-1992

REQUEST NUMBER: 12787 MATRIX: W ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 267

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05155 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/20/92 Date Analyzed: 5/04/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-W-Q	92.05155	83329	< 11.		UG/L	6/18/92		Acenaphthene
53-SC-G1-W-Q	92.05155	208968	< 11.		UG/L	6/18/92		Acenaphthylene
53-SC-G1-W-Q	92.05155	62533	< 11.		UG/L	6/18/92		Aniline
53-SC-G1-W-Q	92.05155	120127	< 11.		UG/L	6/18/92		Anthracene
53-SC-G1-W-Q	92.05155	103333	< 11.		UG/L	6/18/92		Azobenzene
53-SC-G1-W-Q	92.05155	92875	< 11.		UG/L	6/18/92		m-Benzidine
53-SC-G1-W-Q	92.05155	56553	< 11.		UG/L	6/18/92		Benzo[a]anthracene
53-SC-G1-W-Q	92.05155	50328	< 11.		UG/L	6/18/92		Benzo[a]pyrene
53-SC-G1-W-Q	92.05155	205992	< 11.		UG/L	6/18/92		Benzo[b]fluoranthene
53-SC-G1-W-Q	92.05155	191242	< 11.		UG/L	6/18/92		Benzo[g,h,i]perylene
53-SC-G1-W-Q	92.05155	207089	< 11.		UG/L	6/18/92		Benzo[k]fluoranthene
53-SC-G1-W-Q	92.05155	65850	< 11.		UG/L	6/18/92		Benzoic acid
53-SC-G1-W-Q	92.05155	100516	< 11.		UG/L	6/18/92		Benzyl alcohol
53-SC-G1-W-Q	92.05155	111911	< 11.		UG/L	6/18/92		Bis(2-chloroethoxy)methane
53-SC-G1-W-Q	92.05155	111444	< 11.		UG/L	6/18/92		Bis(2-chloroethyl)ether
53-SC-G1-W-Q	92.05155	108601	< 11.		UG/L	6/18/92		Bis(2-chloroisopropyl)ether
53-SC-G1-W-Q	92.05155	117817	< 11.		UG/L	6/18/92		Bis(2-ethylhexyl)phthalate
53-SC-G1-W-Q	92.05155	101553	< 11.		UG/L	6/18/92		4-Bromophenylphenyl ether
53-SC-G1-W-Q	92.05155	85687	< 11.		UG/L	6/18/92		Butyl benzyl phthalate
53-SC-G1-W-Q	92.05155	59507	< 11.		UG/L	6/18/92		4-Chloro-3-methylphenol
53-SC-G1-W-Q	92.05155	106478	< 11.		UG/L	6/18/92		4-Chloroaniline
53-SC-G1-W-Q	92.05155	91587	< 11.		UG/L	6/18/92		2-Chloronaphthalene
53-SC-G1-W-Q	92.05155	95578	< 11.		UG/L	6/18/92		o-Chlorophenol
53-SC-G1-W-Q	92.05155	7005723	< 11.		UG/L	6/18/92		4-Chlorophenylphenyl ether
53-SC-G1-W-Q	92.05155	218019	< 11.		UG/L	6/18/92		Chrysene
53-SC-G1-W-Q	92.05155	84742	< 11.		UG/L	6/18/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-W-Q	92.05155	117840	< 11.		UG/L	6/18/92		Di-n-octyl phthalate
53-SC-G1-W-Q	92.05155	53703	< 11.		UG/L	6/18/92		Dibenzo[a,h]anthracene
53-SC-G1-W-Q	92.05155	132649	< 11.		UG/L	6/18/92		Dibenzofuran
53-SC-G1-W-Q	92.05155	95501	< 11.		UG/L	6/18/92		o-Dichlorobenzene (1,2)
53-SC-G1-W-Q	92.05155	541731	< 11.		UG/L	6/18/92		m-Dichlorobenzene (1,3)
53-SC-G1-W-Q	92.05155	106467	< 11.		UG/L	6/18/92		p-Dichlorobenzene (1,4)
53-SC-G1-W-Q	92.05155	91941	< 11.		UG/L	6/18/92		3,3'-Dichlorobenzidine
53-SC-G1-W-Q	92.05155	120832	< 11.		UG/L	6/18/92		2,4-Dichlorophenol
53-SC-G1-W-Q	92.05155	84662	< 11.		UG/L	6/18/92		Diethyl phthalate
53-SC-G1-W-Q	92.05155	131113	< 11.		UG/L	6/18/92		Dimethyl phthalate
53-SC-G1-W-Q	92.05155	105679	< 11.		UG/L	6/18/92		2,4-Dimethylphenol
53-SC-G1-W-Q	92.05155	51285	< 11.		UG/L	6/18/92		2,4-Dinitrophenol
53-SC-G1-W-Q	92.05155	121142	< 11.		UG/L	6/18/92		2,4-Dinitrotoluene
53-SC-G1-W-Q	92.05155	606202	< 11.		UG/L	6/18/92		2,6-Dinitrotoluene
53-SC-G1-W-Q	92.05155	206440	< 11.		UG/L	6/18/92		Fluoranthene
53-SC-G1-W-Q	92.05155	86737	< 11.		UG/L	6/18/92		Fluorene
53-SC-G1-W-Q	92.05155	118741	< 11.		UG/L	6/18/92		Hexachlorobenzene
53-SC-G1-W-Q	92.05155	87683	< 11.		UG/L	6/18/92		Hexachlorobutadiene
53-SC-G1-W-Q	92.05155	77474	< 11.		UG/L	6/18/92		Hexachlorocyclopentadiene
53-SC-G1-W-Q	92.05155	67721	< 11.		UG/L	6/18/92		Hexachloroethane
53-SC-G1-W-Q	92.05155	193395	< 11.		UG/L	6/18/92		Indeno[1,2,3-cd]pyrene
53-SC-G1-W-Q	92.05155	78591	< 11.		UG/L	6/18/92		Isophorone
53-SC-G1-W-Q	92.05155	534521	< 11.		UG/L	6/18/92		2-Methyl-4,6-dinitrophenol
53-SC-G1-W-Q	92.05155	91576	< 11.		UG/L	6/18/92		2-Methylnaphthalene
53-SC-G1-W-Q	92.05155	95487	< 11.		UG/L	6/18/92		2-Methylphenol
53-SC-G1-W-Q	92.05155	106445	< 11.		UG/L	6/18/92		4-Methylphenol
53-SC-G1-W-Q	92.05155	91203	< 11.		UG/L	6/18/92		Naphthalene
53-SC-G1-W-Q	92.05155	88744	< 11.		UG/L	6/18/92		2-Nitroaniline
53-SC-G1-W-Q	92.05155	99092	< 11.		UG/L	6/18/92		3-Nitroaniline
53-SC-G1-W-Q	92.05155	100016	< 11.		UG/L	6/18/92		4-Nitroaniline
53-SC-G1-W-Q	92.05155	98953	< 11.		UG/L	6/18/92		Nitrobenzene
53-SC-G1-W-Q	92.05155	88755	< 11.		UG/L	6/18/92		2-Nitrophenol
53-SC-G1-W-Q	92.05155	100027	< 11.		UG/L	6/18/92		4-Nitrophenol
53-SC-G1-W-Q	92.05155	621647	< 11.		UG/L	6/18/92		N-Nitrosodi-n-propylamine
53-SC-G1-W-Q	92.05155	62759	< 11.		UG/L	6/18/92		N-Nitrosodimethylamine
53-SC-G1-W-Q	92.05155	86306	< 11.		UG/L	6/18/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-W-Q	92.05155	87865	< 11.		UG/L	6/18/92		Pentachlorophenol
53-SC-G1-W-Q	92.05155	85018	< 11.		UG/L	6/18/92		Phenanthrene
53-SC-G1-W-Q	92.05155	108952	< 11.		UG/L	6/18/92		Phenol
53-SC-G1-W-Q	92.05155	129000	< 11.		UG/L	6/18/92		Pyrene
53-SC-G1-W-Q	92.05155	120821	< 11.		UG/L	6/18/92		1,2,4-Trichlorobenzene
53-SC-G1-W-Q	92.05155	95954	< 11.		UG/L	6/18/92		2,4,5-Trichlorophenol
53-SC-G1-W-Q	92.05155	88062	< 11.		UG/L	6/18/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05155

none

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAT on 18-Jun-1992

REQUEST NUMBER: 12787 MATRIX: W ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 267

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05156 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/20/92 Date Analyzed: 5/07/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-EBK-W	92.05156	83329	< 11.		UG/L	6/18/92		Acenaphthene
53-SC-EBK-W	92.05156	208968	< 11.		UG/L	6/18/92		Acenaphthylene
53-SC-EBK-W	92.05156	62533	< 11.		UG/L	6/18/92		Aniline
53-SC-EBK-W	92.05156	120127	< 11.		UG/L	6/18/92		Anthracene
53-SC-EBK-W	92.05156	103333	< 11.		UG/L	6/18/92		Azobenzene
53-SC-EBK-W	92.05156	92875	< 11.		UG/L	6/18/92		m-Benzidine
53-SC-EBK-W	92.05156	56553	< 11.		UG/L	6/18/92		Benzo[a]anthracene
53-SC-EBK-W	92.05156	50328	< 11.		UG/L	6/18/92		Benzo[a]pyrene
53-SC-EBK-W	92.05156	205992	< 11.		UG/L	6/18/92		Benzo[b]fluoranthene
53-SC-EBK-W	92.05156	191242	< 11.		UG/L	6/18/92		Benzo[g,h,i]perylene
53-SC-EBK-W	92.05156	207089	< 11.		UG/L	6/18/92		Benzo[k]fluoranthene
53-SC-EBK-W	92.05156	65850	< 11.		UG/L	6/18/92		Benzoic acid
53-SC-EBK-W	92.05156	100516	< 11.		UG/L	6/18/92		Benzyl alcohol
53-SC-EBK-W	92.05156	111911	< 11.		UG/L	6/18/92		Bis(2-chloroethoxy)methane
53-SC-EBK-W	92.05156	111444	< 11.		UG/L	6/18/92		Bis(2-chloroethyl)ether
53-SC-EBK-W	92.05156	108601	< 11.		UG/L	6/18/92		Bis(2-chloroisopropyl)ether
53-SC-EBK-W	92.05156	117817	< 11.		UG/L	6/18/92		Bis(2-ethylhexyl)phthalate
53-SC-EBK-W	92.05156	101553	< 11.		UG/L	6/18/92		4-Bromophenylphenyl ether
53-SC-EBK-W	92.05156	85687	< 11.		UG/L	6/18/92		Butyl benzyl phthalate
53-SC-EBK-W	92.05156	59507	< 11.		UG/L	6/18/92		4-Chloro-3-methylphenol
53-SC-EBK-W	92.05156	106478	< 11.		UG/L	6/18/92		4-Chloroaniline
53-SC-EBK-W	92.05156	91587	< 11.		UG/L	6/18/92		2-Chloronaphthalene
53-SC-EBK-W	92.05156	95578	< 11.		UG/L	6/18/92		o-Chlorophenol
53-SC-EBK-W	92.05156	7005723	< 11.		UG/L	6/18/92		4-Chlorophenylphenyl ether
53-SC-EBK-W	92.05156	218019	< 11.		UG/L	6/18/92		Chrysene
53-SC-EBK-W	92.05156	84742	< 11.		UG/L	6/18/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-EBK-W	92.05156	117840	< 11.		UG/L	6/18/92		Di-n-octyl phthalate
53-SC-EBK-W	92.05156	53703	< 11.		UG/L	6/18/92		Dibenzo[a,h]anthracene
53-SC-EBK-W	92.05156	132649	< 11.		UG/L	6/18/92		Dibenzofuran
53-SC-EBK-W	92.05156	95501	< 11.		UG/L	6/18/92		o-Dichlorobenzene (1,2)
53-SC-EBK-W	92.05156	541731	< 11.		UG/L	6/18/92		m-Dichlorobenzene (1,3)
53-SC-EBK-W	92.05156	106467	< 11.		UG/L	6/18/92		p-Dichlorobenzene (1,4)
53-SC-EBK-W	92.05156	91941	< 11.		UG/L	6/18/92		3,3'-Dichlorobenzidine
53-SC-EBK-W	92.05156	120832	< 11.		UG/L	6/18/92		2,4-Dichlorophenol
53-SC-EBK-W	92.05156	84662	< 11.		UG/L	6/18/92		Diethyl phthalate
53-SC-EBK-W	92.05156	131113	< 11.		UG/L	6/18/92		Dimethyl phthalate
53-SC-EBK-W	92.05156	105679	< 11.		UG/L	6/18/92		2,4-Dimethylphenol
53-SC-EBK-W	92.05156	51285	< 11.		UG/L	6/18/92		2,4-Dinitrophenol
53-SC-EBK-W	92.05156	121142	< 11.		UG/L	6/18/92		2,4-Dinitrotoluene
53-SC-EBK-W	92.05156	606202	< 11.		UG/L	6/18/92		2,6-Dinitrotoluene
53-SC-EBK-W	92.05156	206440	< 11.		UG/L	6/18/92		Fluoranthene
53-SC-EBK-W	92.05156	86737	< 11.		UG/L	6/18/92		Fluorene
53-SC-EBK-W	92.05156	118741	< 11.		UG/L	6/18/92		Hexachlorobenzene
53-SC-EBK-W	92.05156	87683	< 11.		UG/L	6/18/92		Hexachlorobutadiene
53-SC-EBK-W	92.05156	77474	< 11.		UG/L	6/18/92		Hexachlorocyclopentadiene
53-SC-EBK-W	92.05156	67721	< 11.		UG/L	6/18/92		Hexachloroethane
53-SC-EBK-W	92.05156	193395	< 11.		UG/L	6/18/92		Indeno[1,2,3-cd]pyrene
53-SC-EBK-W	92.05156	78591	< 11.		UG/L	6/18/92		Isophorone
53-SC-EBK-W	92.05156	534521	< 11.		UG/L	6/18/92		2-Methyl-4,6-dinitrophenol
53-SC-EBK-W	92.05156	91576	< 11.		UG/L	6/18/92		2-Methylnaphthalene
53-SC-EBK-W	92.05156	95487	< 11.		UG/L	6/18/92		2-Methylphenol
53-SC-EBK-W	92.05156	106445	< 11.		UG/L	6/18/92		4-Methylphenol
53-SC-EBK-W	92.05156	91203	< 11.		UG/L	6/18/92		Naphthalene
53-SC-EBK-W	92.05156	88744	< 11.		UG/L	6/18/92		2-Nitroaniline
53-SC-EBK-W	92.05156	99092	< 11.		UG/L	6/18/92		3-Nitroaniline
53-SC-EBK-W	92.05156	100016	< 11.		UG/L	6/18/92		4-Nitroaniline
53-SC-EBK-W	92.05156	98953	< 11.		UG/L	6/18/92		Nitrobenzene
53-SC-EBK-W	92.05156	88755	< 11.		UG/L	6/18/92		2-Nitrophenol
53-SC-EBK-W	92.05156	100027	< 11.		UG/L	6/18/92		4-Nitrophenol
53-SC-EBK-W	92.05156	621647	< 11.		UG/L	6/18/92		N-Nitrosodi-n-propylamine
53-SC-EBK-W	92.05156	62759	< 11.		UG/L	6/18/92		N-Nitrosodimethylamine
53-SC-EBK-W	92.05156	86306	< 11.		UG/L	6/18/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-EBK-W	92.05156	87865	< 11.		UG/L	6/18/92		Pentachlorophenol
53-SC-EBK-W	92.05156	85018	< 11.		UG/L	6/18/92		Phenanthrene
53-SC-EBK-W	92.05156	108952	< 11.		UG/L	6/18/92		Phenol
53-SC-EBK-W	92.05156	129000	< 11.		UG/L	6/18/92		Pyrene
53-SC-EBK-W	92.05156	120821	< 11.		UG/L	6/18/92		1,2,4-Trichlorobenzene
53-SC-EBK-W	92.05156	95954	< 11.		UG/L	6/18/92		2,4,5-Trichlorophenol
53-SC-EBK-W	92.05156	88062	< 11.		UG/L	6/18/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05156

none

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAT on 18-Jun-1992

REQUEST NUMBER: 12787 MATRIX: W ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 267

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05157 Date Collected: 4/15/92 Date Received: 4/20/92 Date Extracted: 4/20/92 Date Analyzed: 5/07/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-FBLK-W	92.05157	83329	< 11.		UG/L	6/18/92		Acenaphthene
53-SC-FBLK-W	92.05157	208968	< 11.		UG/L	6/18/92		Acenaphthylene
53-SC-FBLK-W	92.05157	62533	< 11.		UG/L	6/18/92		Aniline
53-SC-FBLK-W	92.05157	120127	< 11.		UG/L	6/18/92		Anthracene
53-SC-FBLK-W	92.05157	103333	< 11.		UG/L	6/18/92		Azobenzene
53-SC-FBLK-W	92.05157	92875	< 11.		UG/L	6/18/92		m-Benzidine
53-SC-FBLK-W	92.05157	56553	< 11.		UG/L	6/18/92		Benzo[a]anthracene
53-SC-FBLK-W	92.05157	50328	< 11.		UG/L	6/18/92		Benzo[a]pyrene
53-SC-FBLK-W	92.05157	205992	< 11.		UG/L	6/18/92		Benzo[b]fluoranthene
53-SC-FBLK-W	92.05157	191242	< 11.		UG/L	6/18/92		Benzo[g,h,i]perylene
53-SC-FBLK-W	92.05157	207089	< 11.		UG/L	6/18/92		Benzo[k]fluoranthene
53-SC-FBLK-W	92.05157	65850	< 11.		UG/L	6/18/92		Benzoic acid
53-SC-FBLK-W	92.05157	100516	< 11.		UG/L	6/18/92		Benzyl alcohol
53-SC-FBLK-W	92.05157	111911	< 11.		UG/L	6/18/92		Bis(2-chloroethoxy)methane
53-SC-FBLK-W	92.05157	111444	< 11.		UG/L	6/18/92		Bis(2-chloroethyl)ether
53-SC-FBLK-W	92.05157	108601	< 11.		UG/L	6/18/92		Bis(2-chloroisopropyl)ether
53-SC-FBLK-W	92.05157	117817	< 11.		UG/L	6/18/92		Bis(2-ethylhexyl)phthalate
53-SC-FBLK-W	92.05157	101553	< 11.		UG/L	6/18/92		4-Bromophenylphenyl ether
53-SC-FBLK-W	92.05157	85687	< 11.		UG/L	6/18/92		Butyl benzyl phthalate
53-SC-FBLK-W	92.05157	59507	< 11.		UG/L	6/18/92		4-Chloro-3-methylphenol
53-SC-FBLK-W	92.05157	106478	< 11.		UG/L	6/18/92		4-Chloroaniline
53-SC-FBLK-W	92.05157	91587	< 11.		UG/L	6/18/92		2-Chloronaphthalene
53-SC-FBLK-W	92.05157	95578	< 11.		UG/L	6/18/92		o-Chlorophenol
53-SC-FBLK-W	92.05157	7005723	< 11.		UG/L	6/18/92		4-Chlorophenylphenyl ether
53-SC-FBLK-W	92.05157	218019	< 11.		UG/L	6/18/92		Chrysene
53-SC-FBLK-W	92.05157	84742	< 11.		UG/L	6/18/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-FBLK-W	92.05157	117840	< 11.		UG/L	6/18/92		Di-n-octyl phthalate
53-SC-FBLK-W	92.05157	53703	< 11.		UG/L	6/18/92		Dibenzo[a,h]anthracene
53-SC-FBLK-W	92.05157	132649	< 11.		UG/L	6/18/92		Dibenzofuran
53-SC-FBLK-W	92.05157	95501	< 11.		UG/L	6/18/92		o-Dichlorobenzene (1,2)
53-SC-FBLK-W	92.05157	541731	< 11.		UG/L	6/18/92		m-Dichlorobenzene (1,3)
53-SC-FBLK-W	92.05157	106467	< 11.		UG/L	6/18/92		p-Dichlorobenzene (1,4)
53-SC-FBLK-W	92.05157	91941	< 11.		UG/L	6/18/92		3,3'-Dichlorobenzidine
53-SC-FBLK-W	92.05157	120832	< 11.		UG/L	6/18/92		2,4-Dichlorophenol
53-SC-FBLK-W	92.05157	84662	< 11.		UG/L	6/18/92		Diethyl phthalate
53-SC-FBLK-W	92.05157	131113	< 11.		UG/L	6/18/92		Dimethyl phthalate
53-SC-FBLK-W	92.05157	105679	< 11.		UG/L	6/18/92		2,4-Dimethylphenol
53-SC-FBLK-W	92.05157	51285	< 11.		UG/L	6/18/92		2,4-Dinitrophenol
53-SC-FBLK-W	92.05157	121142	< 11.		UG/L	6/18/92		2,4-Dinitrotoluene
53-SC-FBLK-W	92.05157	606202	< 11.		UG/L	6/18/92		2,6-Dinitrotoluene
53-SC-FBLK-W	92.05157	206440	< 11.		UG/L	6/18/92		Fluoranthene
53-SC-FBLK-W	92.05157	86737	< 11.		UG/L	6/18/92		Fluorene
53-SC-FBLK-W	92.05157	118741	< 11.		UG/L	6/18/92		Hexachlorobenzene
53-SC-FBLK-W	92.05157	87683	< 11.		UG/L	6/18/92		Hexachlorobutadiene
53-SC-FBLK-W	92.05157	77474	< 11.		UG/L	6/18/92		Hexachlorocyclopentadiene
53-SC-FBLK-W	92.05157	67721	< 11.		UG/L	6/18/92		Hexachloroethane
53-SC-FBLK-W	92.05157	193395	< 11.		UG/L	6/18/92		Indeno[1,2,3-cd]pyrene
53-SC-FBLK-W	92.05157	78591	< 11.		UG/L	6/18/92		Isophorone
53-SC-FBLK-W	92.05157	534521	< 11.		UG/L	6/18/92		2-Methyl-4,6-dinitrophenol
53-SC-FBLK-W	92.05157	91576	< 11.		UG/L	6/18/92		2-Methylnaphthalene
53-SC-FBLK-W	92.05157	95487	< 11.		UG/L	6/18/92		2-Methylphenol
53-SC-FBLK-W	92.05157	106445	< 11.		UG/L	6/18/92		4-Methylphenol
53-SC-FBLK-W	92.05157	91203	< 11.		UG/L	6/18/92		Naphthalene
53-SC-FBLK-W	92.05157	88744	< 11.		UG/L	6/18/92		2-Nitroaniline
53-SC-FBLK-W	92.05157	99092	< 11.		UG/L	6/18/92		3-Nitroaniline
53-SC-FBLK-W	92.05157	100016	< 11.		UG/L	6/18/92		4-Nitroaniline
53-SC-FBLK-W	92.05157	98953	< 11.		UG/L	6/18/92		Nitrobenzene
53-SC-FBLK-W	92.05157	88755	< 11.		UG/L	6/18/92		2-Nitrophenol
53-SC-FBLK-W	92.05157	100027	< 11.		UG/L	6/18/92		4-Nitrophenol
53-SC-FBLK-W	92.05157	621647	< 11.		UG/L	6/18/92		N-Nitrosodi-n-propylamine
53-SC-FBLK-W	92.05157	62759	< 11.		UG/L	6/18/92		N-Nitrosodimethylamine
53-SC-FBLK-W	92.05157	86306	< 11.		UG/L	6/18/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-FBLK-W	92.05157	87865	< 11.		UG/L	6/18/92		Pentachlorophenol
53-SC-FBLK-W	92.05157	85018	< 11.		UG/L	6/18/92		Phenanthrene
53-SC-FBLK-W	92.05157	108952	< 11.		UG/L	6/18/92		Phenol
53-SC-FBLK-W	92.05157	129000	< 11.		UG/L	6/18/92		Pyrene
53-SC-FBLK-W	92.05157	120821	< 11.		UG/L	6/18/92		1,2,4-Trichlorobenzene
53-SC-FBLK-W	92.05157	95954	< 11.		UG/L	6/18/92		2,4,5-Trichlorophenol
53-SC-FBLK-W	92.05157	88062	< 11.		UG/L	6/18/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05157

none

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

EPA SEMIVOLATILES Prepared by: LAT on 18-Jun-1992

REQUEST NUMBER: 12787 MATRIX: W ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 267

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 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 EM-9

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

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

Blank Results, Sample # 92.05361 Date Collected: 4/15/92 Date Received: 4/20/92 Date Extracted: 4/20/92 Date Analyzed: 5/07/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20226	92.05361	83329	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Acenaphthene
00.20226	92.05361	208968	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Acenaphthylene
00.20226	92.05361	62533	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Aniline
00.20226	92.05361	120127	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Anthracene
00.20226	92.05361	103333	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Azobenzene
00.20226	92.05361	92875	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	m-Benzidine
00.20226	92.05361	56553	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Benzo[a]anthracene
00.20226	92.05361	50328	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Benzo[a]pyrene
00.20226	92.05361	205992	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Benzo[b]fluoranthene
00.20226	92.05361	191242	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Benzo[g,h,i]perylene
00.20226	92.05361	207089	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Benzo[k]fluoranthene
00.20226	92.05361	65850	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Benzoic acid
00.20226	92.05361	100516	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Benzyl alcohol
00.20226	92.05361	111911	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Bis(2-chloroethoxy)methane
00.20226	92.05361	111444	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Bis(2-chloroethyl)ether
00.20226	92.05361	108601	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Bis(2-chloroisopropyl)ether
00.20226	92.05361	117817	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Bis(2-ethylhexyl)phthalate
00.20226	92.05361	101553	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	4-Bromophenylphenyl ether
00.20226	92.05361	85687	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Butyl benzyl phthalate
00.20226	92.05361	59507	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	4-Chloro-3-methylphenol
00.20226	92.05361	106478	< 11.		UG/L	0.0		6/18/92	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
00.20226	92.05361	91587	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	2-Chloronaphthalene
00.20226	92.05361	95578	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	o-Chlorophenol
00.20226	92.05361	7005723	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	4-Chlorophenylphenyl ether
00.20226	92.05361	218019	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Chrysene
00.20226	92.05361	84742	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Di-n-butyl phthalate
00.20226	92.05361	117840	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Di-n-octyl phthalate
00.20226	92.05361	53703	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Dibenzo[a,h]anthracene
00.20226	92.05361	132649	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Dibenzofuran
00.20226	92.05361	95501	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.20226	92.05361	541731	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.20226	92.05361	106467	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.20226	92.05361	91941	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	3,3'-Dichlorobenzidine
00.20226	92.05361	120832	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	2,4-Dichlorophenol
00.20226	92.05361	84662	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Diethyl phthalate
00.20226	92.05361	131113	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Dimethyl phthalate
00.20226	92.05361	105679	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	2,4-Dimethylphenol
00.20226	92.05361	51285	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	2,4-Dinitrophenol
00.20226	92.05361	121142	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	2,4-Dinitrotoluene
00.20226	92.05361	606202	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	2,6-Dinitrotoluene
00.20226	92.05361	206440	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Fluoranthene
00.20226	92.05361	86737	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Fluorene
00.20226	92.05361	118741	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Hexachlorobenzene
00.20226	92.05361	87683	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Hexachlorobutadiene
00.20226	92.05361	77474	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Hexachlorocyclopentadiene
00.20226	92.05361	67721	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Hexachloroethane
00.20226	92.05361	193395	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Indeno[1,2,3-cd]pyrene
00.20226	92.05361	78591	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Isophorone
00.20226	92.05361	534521	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	2-Methyl-4,6-dinitrophenol
00.20226	92.05361	91576	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	2-Methylnaphthalene
00.20226	92.05361	95487	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	2-Methylphenol
00 20226	92.05361	106445	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	4-Methylphenol
00.20226	92.05361	91203	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Naphthalene
00.20226	92.05361	88744	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	2-Nitroaniline
00.20226	92.05361	99092	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	3-Nitroaniline
00.20226	92.05361	100016	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	4-Nitroaniline
00.20226	92.05361	98953	< 11.		UG/L	0.0		6/18/92	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
00.20226	92.05361	88755	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	2-Nitrophenol
00.20226	92.05361	100027	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	4-Nitrophenol
00.20226	92.05361	621647	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	N-Nitrosodi-n-propylamine
00.20226	92.05361	62759	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	N-Nitrosodimethylamine
00.20226	92.05361	86306	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	N-Nitrosodiphenylamine
00.20226	92.05361	87865	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Pentachlorophenol
00.20226	92.05361	85018	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Phenanthrene
00.20226	92.05361	108952	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Phenol
00.20226	92.05361	129000	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	Pyrene
00.20226	92.05361	120821	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	1,2,4-Trichlorobenzene
00.20226	92.05361	95954	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	2,4,5-Trichlorophenol
00.20226	92.05361	88062	< 11.		UG/L	0.0		6/18/92	UNDER CONTROL	2,4,6-Trichlorophenol

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

Blank Spike Results, Sample # 92.05361 Date Collected: 4/15/92 Date Received: 4/20/92 Date Extracted: 4/20/92 Date Analyzed: 5/07/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20226	92.05361	83329	50.	28.	UG/L	0.0		6/18/92		Acenaphthene
00.20226	92.05361	59507	100.	51.	UG/L	0.0		6/18/92		4-Chloro-3-methylphenol
00.20226	92.05361	95578	100.	58.	UG/L	0.0		6/18/92		o-Chlorophenol
00.20226	92.05361	106467	50.	28.	UG/L	0.0		6/18/92		p-Dichlorobenzene (1,4)
00.20226	92.05361	121142	50.	28.	UG/L	0.0		6/18/92		2,4-Dinitrotoluene
00.20226	92.05361	100027	100.	51.	UG/L	0.0		6/18/92		4-Nitrophenol
00.20226	92.05361	621647	50.	26.	UG/L	0.0		6/18/92		N-Nitrosodi-n-propylamine
00.20226	92.05361	87865	100.	64.	UG/L	0.0		6/18/92		Pentachlorophenol
00.20226	92.05361	108952	100.	56.	UG/L	0.0		6/18/92		Phenol
00.20226	92.05361	129000	50.	23.	UG/L	0.0		6/18/92		Pyrene
00.20226	92.05361	120821	50.	28.	UG/L	0.0		6/18/92		1,2,4-Trichlorobenzene

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

Blank Spike Duplicate Results, Sample # 92.05361 Date Collected: 4/15/92 Date Received: 4/20/92 Date Extracted: 4/20/92 Date Analyzed: 5/07/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20226	92.05361	83329	50.	24.	UG/L	0.0		6/18/92		Acenaphthene
00.20226	92.05361	59507	100.	55.	UG/L	0.0		6/18/92		4-Chloro-3-methylphenol
00.20226	92.05361	95578	100.	38.	UG/L	0.0		6/18/92		o-Chlorophenol
00.20226	92.05361	106467	50.	10.	UG/L	0.0		6/18/92		p-Dichlorobenzene (1,4)
00.20226	92.05361	121142	50.	27.	UG/L	0.0		6/18/92		2,4-Dinitrotoluene
00.20226	92.05361	100027	100.	46.	UG/L	0.0		6/18/92		4-Nitrophenol
00.20226	92.05361	621647	50.	22.	UG/L	0.0		6/18/92		N-Nitrosodi-n-propylamine
00.20226	92.05361	87865	100.	62.	UG/L	0.0		6/18/92		Pentachlorophenol
00.20226	92.05361	108952	100.	42.	UG/L	0.0		6/18/92		Phenol
00.20226	92.05361	129000	50.	27.	UG/L	0.0		6/18/92		Pyrene
00.20226	92.05361	120821	50.	17.	UG/L	0.0		6/18/92		1,2,4-Trichlorobenzene

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

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

Blind QC Results, Sample # 92.05360 Date Collected: 4/15/92 Date Received: 4/20/92 Date Extracted: 4/20/92 Date Analyzed: 5/07/92

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
92.05360	83329	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Acenaphthene
92.05360	208968	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Acenaphthylene
92.05360	62533	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Aniline
92.05360	120127	40.	12.	UG/L	124.	12.	6/18/92	OUT OF CONTROL	Anthracene
92.05360	103333	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Azobenzene
92.05360	92875	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	m-Benzidine
92.05360	56553	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Benzo[a]anthracene
92.05360	50328	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Benzo[a]pyrene
92.05360	205992	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Benzo[b]fluoranthene
92.05360	191242	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Benzo[g,h,i]perylene
92.05360	207089	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Benzo[k]fluoranthene
92.05360	65850	94.	28.2	UG/L	130.	13.	6/18/92	UNDER CONTROL	Benzoic acid
92.05360	100516	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Benzyl alcohol
92.05360	111911	74.	22.2	UG/L	118.	12.	6/18/92	UNDER CONTROL	Bis(2-chloroethoxy)methane
92.05360	111444	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Bis(2-chloroethyl)ether
92.05360	108601	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Bis(2-chloroisopropyl)ether
92.05360	117817	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Bis(2-ethylhexyl)phthalate
92.05360	101553	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	4-Bromophenylphenyl ether
92.05360	85687	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Butyl benzyl phthalate
92.05360	59507	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	4-Chloro-3-methylphenol
92.05360	106478	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	4-Chloroaniline
92.05360	91587	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	2-Chloronaphthalene
92.05360	95578	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	o-Chlorophenol
92.05360	7005723	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	4-Chlorophenylphenyl ether
92.05360	218019	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Chrysene
92.05360	84742	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Di-n-butyl phthalate

92.05360	117840	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Di-n-octyl phthalate
92.05360	53703	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Dibenzo[a,h]anthracene
92.05360	132649	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Dibenzofuran
92.05360	95501	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	o-Dichlorobenzene (1,2)
92.05360	541731	37.	11.1	UG/L	93.	9.	6/18/92	OUT OF CONTROL	m-Dichlorobenzene (1,3)
92.05360	106467	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	p-Dichlorobenzene (1,4)
92.05360	91941	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	3,3'-Dichlorobenzidine
92.05360	120832	85.	25.5	UG/L	130.	13.	6/18/92	UNDER CONTROL	2,4-Dichlorophenol
92.05360	84662	16.	4.8	UG/L	78.	8.	6/18/92	OUT OF CONTROL	Diethyl phthalate
92.05360	131113	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Dimethyl phthalate
92.05360	105679	23.	6.9	UG/L	69.	7.	6/18/92	OUT OF CONTROL	2,4-Dimethylphenol
92.05360	51285	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	2,4-Dinitrophenol
92.05360	121142	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	2,4-Dinitrotoluene
92.05360	606202	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	2,6-Dinitrotoluene
92.05360	206440	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Fluoranthene
92.05360	86737	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Fluorene
92.05360	118741	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Hexachlorobenzene
92.05360	87683	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Hexachlorobutadiene
92.05360	77474	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Hexachlorocyclopentadiene
92.05360	67721	32.	9.6	UG/L	89.	9.	6/18/92	OUT OF CONTROL	Hexachloroethane
92.05360	193395	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Indeno[1,2,3-cd]pyrene
92.05360	78591	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Isophorone
92.05360	534521	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	2-Methyl-4,6-dinitrophenol
92.05360	91576	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	2-Methylnaphthalene
92.05360	95487	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	2-Methylphenol
92.05360	106445	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	4-Methylphenol
92.05360	91203	43.	12.9	UG/L	86.	9.	6/18/92	WARNING 2-3 SIG	Naphthalene
92.05360	88744	45.	13.5	UG/L	119.	12.	6/18/92	OUT OF CONTROL	2-Nitroaniline
92.05360	99092	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	3-Nitroaniline
92.05360	100016	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	4-Nitroaniline
92.05360	98953	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Nitrobenzene
92.05360	88755	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	2-Nitrophenol
92.05360	100027	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	4-Nitrophenol
92.05360	621647	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	N-Nitrosodi-n-propylamine
92.05360	62759	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	N-Nitrosodimethylamine
92.05360	86306	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	N-Nitrosodiphenylamine
92.05360	87865	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Pentachlorophenol
92.05360	85018	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Phenanthrene
92.05360	108952	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Phenol
92.05360	129000	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	Pyrene
92.05360	120821	63.	18.9	UG/L	139.	14.	6/18/92	OUT OF CONTROL	1,2,4-Trichlorobenzene
92.05360	95954	< 10.		UG/L	0.0		6/18/92	UNDER CONTROL	2,4,5-Trichlorophenol
92.05360	88062	61.	18.3	UG/L	85.	8.	6/18/92	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 # =)

SAMPLE NUMBER	UNITS	Surrogate 1	Surrogate 2	Surrogate 3	Surrogate 4	Surrogate 5	Surrogate 6	COMPLETION DATE
92.05154	%	63.019	67.804	60.082	60.764	81.917	45.078	18-Jun-1992
92.05155	%	63.954	66.715	65.076	63.778	83.831	42.02	18-Jun-1992
92.05156	%	45.012	46.717	59.026	56.826	103.213	76.494	18-Jun-1992
92.05157	%	4.95	23.595	40.04	44.66	38.181	88.528	18-Jun-1992
92.05360	%	49.37	55.29	64.92	57.18	88.56	86.18	18-Jun-1992
92.05361	%	58.28	55.55	56.02	62.36	84.74	75.08	18-Jun-1992
92.05361	%	33.97	43.64	38.08	51.82	77.38	65.84	18-Jun-1992
92.05361	%	57.475	59.763	67.518	62.832	96.371	83.6	18-Jun-1992
EPA Limits:								
Water	%	21 - 100	10 - 94	35 - 114	43 - 116	10 - 123	33 - 141	
Soil	%	25 - 121	24 - 113	23 - 120	30 - 115	19 - 122	18 - 137	

REPORT NUMBER: 14287

Analyst	Reviewer	Section Leader	QA Officer
6/19/92	6/18/92	6/19/92	6/19/92
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: 1986,' LA-11114-MS, pp. 3-4.

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********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 19-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 277

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05120 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/27/92 Date Analyzed: 5/24/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-S	92.05120	83329	< 990.		UG/KG	8/19/92		Acenaphthene
53-SC-G1-S	92.05120	208968	< 990.		UG/KG	8/19/92		Acenaphthylene
53-SC-G1-S	92.05120	62533	< 990.		UG/KG	8/19/92		Aniline
53-SC-G1-S	92.05120	120127	< 990.		UG/KG	8/19/92		Anthracene
53-SC-G1-S	92.05120	103333	< 990.		UG/KG	8/19/92		Azobenzene
53-SC-G1-S	92.05120	92875	< 990.		UG/KG	8/19/92		m-Benzidine
53-SC-G1-S	92.05120	56553	< 990.		UG/KG	8/19/92		Benzo[a]anthracene
53-SC-G1-S	92.05120	50328	< 990.		UG/KG	8/19/92		Benzo[a]pyrene
53-SC-G1-S	92.05120	205992	< 990.		UG/KG	8/19/92		Benzo[b]fluoranthene
53-SC-G1-S	92.05120	191242	< 990.		UG/KG	8/19/92		Benzo[g,h,i]perylene
53-SC-G1-S	92.05120	207089	< 990.		UG/KG	8/19/92		Benzo[k]fluoranthene
53-SC-G1-S	92.05120	65850	< 990.		UG/KG	8/19/92		Benzoic acid
53-SC-G1-S	92.05120	100516	< 990.		UG/KG	8/19/92		Benzyl alcohol
53-SC-G1-S	92.05120	111911	< 990.		UG/KG	8/19/92		Bis(2-chloroethoxy)methane
53-SC-G1-S	92.05120	111444	< 990.		UG/KG	8/19/92		Bis(2-chloroethyl)ether
53-SC-G1-S	92.05120	108601	< 990.		UG/KG	8/19/92		Bis(2-chloroisopropyl)ether
53-SC-G1-S	92.05120	117817	< 990.		UG/KG	8/19/92		Bis(2-ethylhexyl)phthalate
53-SC-G1-S	92.05120	101553	< 990.		UG/KG	8/19/92		4-Bromophenylphenyl ether
53-SC-G1-S	92.05120	85687	< 990.		UG/KG	8/19/92		Butyl benzyl phthalate
53-SC-G1-S	92.05120	59507	< 990.		UG/KG	8/19/92		4-Chloro 3-methylphenol
53-SC-G1-S	92.05120	106478	< 990.		UG/KG	8/19/92		4-Chloroaniline
53-SC-G1-S	92.05120	91587	< 990.		UG/KG	8/19/92		2-Chloronaphthalene
53-SC-G1-S	92.05120	95578	< 990.		UG/KG	8/19/92		o-Chlorophenol
53-SC-G1-S	92.05120	7005723	< 990.		UG/KG	8/19/92		4-Chlorophenylphenyl ether
53-SC-G1-S	92.05120	218019	< 990.		UG/KG	8/19/92		Chrysene
53-SC-G1-S	92.05120	84742	< 990.		UG/KG	8/19/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-S	92.05120	117840	< 990.		UG/KG	8/19/92		Di-n-octyl phthalate
53-SC-G1-S	92.05120	53703	< 990.		UG/KG	8/19/92		Dibenzo[a,h]anthracene
53-SC-G1-S	92.05120	132649	< 990.		UG/KG	8/19/92		Dibenzofuran
53-SC-G1-S	92.05120	95501	< 990.		UG/KG	8/19/92		o-Dichlorobenzene (1,2)
53-SC-G1-S	92.05120	541731	< 990.		UG/KG	8/19/92		m-Dichlorobenzene (1,3)
53-SC-G1-S	92.05120	106467	< 990.		UG/KG	8/19/92		p-Dichlorobenzene (1,4)
53-SC-G1-S	92.05120	91941	< 990.		UG/KG	8/19/92		3,3'-Dichlorobenzidine
53-SC-G1-S	92.05120	120832	< 990.		UG/KG	8/19/92		2,4-Dichlorophenol
53-SC-G1-S	92.05120	84662	< 990.		UG/KG	8/19/92		Diethyl phthalate
53-SC-G1-S	92.05120	131113	< 990.		UG/KG	8/19/92		Dimethyl phthalate
53-SC-G1-S	92.05120	105679	< 990.		UG/KG	8/19/92		2,4-Dimethylphenol
53-SC-G1-S	92.05120	51285	< 990.		UG/KG	8/19/92		2,4-Dinitrophenol
53-SC-G1-S	92.05120	121142	< 990.		UG/KG	8/19/92		2,4-Dinitrotoluene
53-SC-G1-S	92.05120	606202	< 990.		UG/KG	8/19/92		2,6-Dinitrotoluene
53-SC-G1-S	92.05120	206440	< 990.		UG/KG	8/19/92		Fluoranthene
53-SC-G1-S	92.05120	86737	< 990.		UG/KG	8/19/92		Fluorene
53-SC-G1-S	92.05120	118741	< 990.		UG/KG	8/19/92		Hexachlorobenzene
53-SC-G1-S	92.05120	87683	< 990.		UG/KG	8/19/92		Hexachlorobutadiene
53-SC-G1-S	92.05120	77474	< 990.		UG/KG	8/19/92		Hexachlorocyclopentadiene
53-SC-G1-S	92.05120	67721	< 990.		UG/KG	8/19/92		Hexachloroethane
53-SC-G1-S	92.05120	193395	< 990.		UG/KG	8/19/92		Indeno[1,2,3-cd]pyrene
53-SC-G1-S	92.05120	78591	< 990.		UG/KG	8/19/92		Isophorone
53-SC-G1-S	92.05120	534521	< 990.		UG/KG	8/19/92		2-Methyl-4,6-dinitrophenol
53-SC-G1-S	92.05120	91576	< 990.		UG/KG	8/19/92		2-Methylnaphthalene
53-SC-G1-S	92.05120	95487	< 990.		UG/KG	8/19/92		2-Methylphenol
53-SC-G1-S	92.05120	106445	< 990.		UG/KG	8/19/92		4-Methylphenol
53-SC-G1-S	92.05120	91203	< 990.		UG/KG	8/19/92		Naphthalene
53-SC-G1-S	92.05120	88744	< 990.		UG/KG	8/19/92		2-Nitroaniline
53-SC-G1-S	92.05120	99092	< 990.		UG/KG	8/19/92		3-Nitroaniline
53-SC-G1-S	92.05120	100016	< 990.		UG/KG	8/19/92		4-Nitroaniline
53-SC-G1-S	92.05120	98953	< 990.		UG/KG	8/19/92		Nitrobenzene
53-SC-G1-S	92.05120	88755	< 990.		UG/KG	8/19/92		2-Nitrophenol
53-SC-G1-S	92.05120	100027	< 990.		UG/KG	8/19/92		4-Nitrophenol
53-SC-G1-S	92.05120	621647	< 990.		UG/KG	8/19/92		N-Nitrosodi-n-propylamine
53-SC-G1-S	92.05120	62759	< 990.		UG/KG	8/19/92		N-Nitrosodimethylamine
53-SC-G1-S	92.05120	86306	< 990.		UG/KG	8/19/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-S	92.05120	87865	< 990.		UG/KG	8/19/92		Pentachlorophenol
53-SC-G1-S	92.05120	85018	< 990.		UG/KG	8/19/92		Phenanthrene
53-SC-G1-S	92.05120	108952	< 990.		UG/KG	8/19/92		Phenol
53-SC-G1-S	92.05120	129000	< 990.		UG/KG	8/19/92		Pyrene
53-SC-G1-S	92.05120	120821	< 990.		UG/KG	8/19/92		1,2,4-Trichlorobenzene
53-SC-G1-S	92.05120	95954	< 990.		UG/KG	8/19/92		2,4,5-Trichlorophenol
53-SC-G1-S	92.05120	88062	< 990.		UG/KG	8/19/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05120

none

********** EM-9 ANALYTICAL REPORT **********

Matrix Spike Results for Sample # 92.05120 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/27/92 Date Analyzed: 5/24/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-S	92.05120	83329	4775.55	3100.	UG/KG	8/19/92		Acenaphthene
53-SC-G1-S	92.05120	59507	9551.1	5800.	UG/KG	8/19/92		4-Chloro-3-methylphenol
53-SC-G1-S	92.05120	95578	9551.1	4200.	UG/KG	8/19/92		o-Chlorophenol
53-SC-G1-S	92.05120	106467	4775.55	2200.	UG/KG	8/19/92		p-Dichlorobenzene (1,4)
53-SC-G1-S	92.05120	121142	4775.55	3100.	UG/KG	8/19/92		2,4-Dinitrotoluene
53-SC-G1-S	92.05120	100027	9551.1	5800.	UG/KG	8/19/92		4-Nitrophenol
53-SC-G1-S	92.05120	621647	4775.55	2600.	UG/KG	8/19/92		N-Nitrosodi-n-propylamine
53-SC-G1-S	92.05120	87865	9551.1	6900.	UG/KG	8/19/92		Pentachlorophenol
53-SC-G1-S	92.05120	108952	9551.1	4300.	UG/KG	8/19/92		Phenol
53-SC-G1-S	92.05120	129000	4775.55	3500.	UG/KG	8/19/92		Pyrene
53-SC-G1-S	92.05120	120821	4775.55	2700.	UG/KG	8/19/92		1,2,4-Trichlorobenzene

Matrix Spike Duplicate Results for Sample # 92.05120 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/27/92 Date Analyzed: 5/24/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-G1-S	92.05120	83329	4816.96	2800.	UG/KG	8/19/92		Acenaphthene
53-SC-G1-S	92.05120	59507	9633.91	6000.	UG/KG	8/19/92		4-Chloro-3-methylphenol
53-SC-G1-S	92.05120	95578	9633.91	3200.	UG/KG	8/19/92		o-Chlorophenol
53-SC-G1-S	92.05120	106467	4816.96	1500.	UG/KG	8/19/92		p-Dichlorobenzene (1,4)
53-SC-G1-S	92.05120	121142	4816.96	2900.	UG/KG	8/19/92		2,4-Dinitrotoluene
53-SC-G1-S	92.05120	100027	9633.91	5100.	UG/KG	8/19/92		4-Nitrophenol
53-SC-G1-S	92.05120	621647	4816.96	2300.	UG/KG	8/19/92		N-Nitrosodi-n-propylamine
53-SC-G1-S	92.05120	87865	9633.91	5800.	UG/KG	8/19/92		Pentachlorophenol
53-SC-G1-S	92.05120	108952	9633.91	3600.	UG/KG	8/19/92		Phenol
53-SC-G1-S	92.05120	129000	4816.96	3300.	UG/KG	8/19/92		Pyrene
53-SC-G1-S	92.05120	120821	4816.96	2200.	UG/KG	8/19/92		1,2,4-Trichlorobenzene

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 19-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 277

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05121 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/27/92 Date Analyzed: 5/24/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-H1-S-Q	92.05121	83329	< 950.		UG/KG	8/19/92		Acenaphthene
53-SC-H1-S-Q	92.05121	208968	< 950.		UG/KG	8/19/92		Acenaphthylene
53-SC-H1-S-Q	92.05121	62533	< 950.		UG/KG	8/19/92		Aniline
53-SC-H1-S-Q	92.05121	120127	< 950.		UG/KG	8/19/92		Anthracene
53-SC-H1-S-Q	92.05121	103333	< 950.		UG/KG	8/19/92		Azobenzene
53-SC-H1-S-Q	92.05121	92875	< 950.		UG/KG	8/19/92		m-Benzidine
53-SC-H1-S-Q	92.05121	56553	< 950.		UG/KG	8/19/92		Benzo[a]anthracene
53-SC-H1-S-Q	92.05121	50328	< 950.		UG/KG	8/19/92		Benzo[a]pyrene
53-SC-H1-S-Q	92.05121	205992	< 950.		UG/KG	8/19/92		Benzo[b]fluoranthene
53-SC-H1-S-Q	92.05121	191242	< 950.		UG/KG	8/19/92		Benzo[g,h,i]perylene
53-SC-H1-S-Q	92.05121	207089	< 950.		UG/KG	8/19/92		Benzo[k]fluoranthene
53-SC-H1-S-Q	92.05121	65850	< 950.		UG/KG	8/19/92		Benzoic acid
53-SC-H1-S-Q	92.05121	100516	< 950.		UG/KG	8/19/92		Benzyl alcohol
53-SC-H1-S-Q	92.05121	111911	< 950.		UG/KG	8/19/92		Bis(2-chloroethoxy)methane
53-SC-H1-S-Q	92.05121	111444	< 950.		UG/KG	8/19/92		Bis(2-chloroethyl)ether
53-SC-H1-S-Q	92.05121	108601	< 950.		UG/KG	8/19/92		Bis(2-chloroisopropyl)ether
53-SC-H1-S-Q	92.05121	117817	< 950.		UG/KG	8/19/92		Bis(2-ethylhexyl)phthalate
53-SC-H1-S-Q	92.05121	101553	< 950.		UG/KG	8/19/92		4-Bromophenylphenyl ether
53-SC-H1-S-Q	92.05121	85687	< 950.		UG/KG	8/19/92		Butyl benzyl phthalate
53-SC-H1-S-Q	92.05121	59507	< 950.		UG/KG	8/19/92		4-Chloro-3-methylphenol
53-SC-H1-S-Q	92.05121	106478	< 950.		UG/KG	8/19/92		4-Chloroaniline
53-SC-H1-S-Q	92.05121	91587	< 950.		UG/KG	8/19/92		2-Chloronaphthalene
53-SC-H1-S-Q	92.05121	95578	< 950.		UG/KG	8/19/92		o-Chlorophenol
53-SC-H1-S-Q	92.05121	7005723	< 950.		UG/KG	8/19/92		4-Chlorophenylphenyl ether
53-SC-H1-S-Q	92.05121	218019	< 950.		UG/KG	8/19/92		Chrysene
53-SC-H1-S-Q	92.05121	84742	< 950.		UG/KG	8/19/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-H1-S-Q	92.05121	117840	< 950.		UG/KG	8/19/92		Di-n-octyl phthalate
53-SC-H1-S-Q	92.05121	53703	< 950.		UG/KG	8/19/92		Dibenzo[a,h]anthracene
53-SC-H1-S-Q	92.05121	132649	< 950.		UG/KG	8/19/92		Dibenzofuran
53-SC-H1-S-Q	92.05121	95501	< 950.		UG/KG	8/19/92		o-Dichlorobenzene (1,2)
53-SC-H1-S-Q	92.05121	541731	< 950.		UG/KG	8/19/92		m-Dichlorobenzene (1,3)
53-SC-H1-S-Q	92.05121	106467	< 950.		UG/KG	8/19/92		p-Dichlorobenzene (1,4)
53-SC-H1-S-Q	92.05121	91941	< 950.		UG/KG	8/19/92		3,3'-Dichlorobenzidine
53-SC-H1-S-Q	92.05121	120832	< 950.		UG/KG	8/19/92		2,4-Dichlorophenol
53-SC-H1-S-Q	92.05121	84662	< 950.		UG/KG	8/19/92		Diethyl phthalate
53-SC-H1-S-Q	92.05121	131113	< 950.		UG/KG	8/19/92		Dimethyl phthalate
53-SC-H1-S-Q	92.05121	105679	< 950.		UG/KG	8/19/92		2,4-Dimethylphenol
53-SC-H1-S-Q	92.05121	51285	< 950.		UG/KG	8/19/92		2,4-Dinitrophenol
53-SC-H1-S-Q	92.05121	121142	< 950.		UG/KG	8/19/92		2,4-Dinitrotoluene
53-SC-H1-S-Q	92.05121	606202	< 950.		UG/KG	8/19/92		2,6-Dinitrotoluene
53-SC-H1-S-Q	92.05121	206440	< 950.		UG/KG	8/19/92		Fluoranthene
53-SC-H1-S-Q	92.05121	86737	< 950.		UG/KG	8/19/92		Fluorene
53-SC-H1-S-Q	92.05121	118741	< 950.		UG/KG	8/19/92		Hexachlorobenzene
53-SC-H1-S-Q	92.05121	87683	< 950.		UG/KG	8/19/92		Hexachlorobutadiene
53-SC-H1-S-Q	92.05121	77474	< 950.		UG/KG	8/19/92		Hexachlorocyclopentadiene
53-SC-H1-S-Q	92.05121	67721	< 950.		UG/KG	8/19/92		Hexachloroethane
53-SC-H1-S-Q	92.05121	193395	< 950.		UG/KG	8/19/92		Indeno[1,2,3-cd]pyrene
53-SC-H1-S-Q	92.05121	78591	< 950.		UG/KG	8/19/92		Isophorone
53-SC-H1-S-Q	92.05121	534521	< 950.		UG/KG	8/19/92		2-Methyl-4,6-dinitrophenol
53-SC-H1-S-Q	92.05121	91576	< 950.		UG/KG	8/19/92		2-Methylnaphthalene
53-SC-H1-S-Q	92.05121	95487	< 950.		UG/KG	8/19/92		2-Methylphenol
53-SC-H1-S-Q	92.05121	106445	< 950.		UG/KG	8/19/92		4-Methylphenol
53-SC-H1-S-Q	92.05121	91203	< 950.		UG/KG	8/19/92		Naphthalene
53-SC-H1-S-Q	92.05121	88744	< 950.		UG/KG	8/19/92		2-Nitroaniline
53-SC-H1-S-Q	92.05121	99092	< 950.		UG/KG	8/19/92		3-Nitroaniline
53-SC-H1-S-Q	92.05121	100016	< 950.		UG/KG	8/19/92		4-Nitroaniline
53-SC-H1-S-Q	92.05121	98953	< 950.		UG/KG	8/19/92		Nitrobenzene
53-SC-H1-S-Q	92.05121	88755	< 950.		UG/KG	8/19/92		2-Nitrophenol
53-SC-H1-S-Q	92.05121	100027	< 950.		UG/KG	8/19/92		4-Nitrophenol
53-SC-H1-S-Q	92.05121	621647	< 950.		UG/KG	8/19/92		N-Nitrosodi-n-propylamine
53-SC-H1-S-Q	92.05121	62759	< 950.		UG/KG	8/19/92		N-Nitrosodimethylamine
53-SC-H1-S-Q	92.05121	86306	< 950.		UG/KG	8/19/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-H1-S-Q	92.05121	87865	< 950.		UG/KG	8/19/92		Pentachlorophenol
53-SC-H1-S-Q	92.05121	85018	< 950.		UG/KG	8/19/92		Phenanthrene
53-SC-H1-S-Q	92.05121	108952	< 950.		UG/KG	8/19/92		Phenol
53-SC-H1-S-Q	92.05121	129000	< 950.		UG/KG	8/19/92		Pyrene
53-SC-H1-S-Q	92.05121	120821	< 950.		UG/KG	8/19/92		1,2,4-Trichlorobenzene
53-SC-H1-S-Q	92.05121	95954	< 950.		UG/KG	8/19/92		2,4,5-Trichlorophenol
53-SC-H1-S-Q	92.05121	88062	< 950.		UG/KG	8/19/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05121

none

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 19-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 277

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05122 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/27/92 Date Analyzed: 5/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-H1-S	92.05122	83329	< 950.		UG/KG	8/19/92		Acenaphthene
53-SC-H1-S	92.05122	208968	< 950.		UG/KG	8/19/92		Acenaphthylene
53-SC-H1-S	92.05122	62533	< 950.		UG/KG	8/19/92		Aniline
53-SC-H1-S	92.05122	120127	< 950.		UG/KG	8/19/92		Anthracene
53-SC-H1-S	92.05122	103333	< 950.		UG/KG	8/19/92		Azobenzene
53-SC-H1-S	92.05122	92875	< 950.		UG/KG	8/19/92		m-Benzidine
53-SC-H1-S	92.05122	56553	< 950.		UG/KG	8/19/92		Benzo[a]anthracene
53-SC-H1-S	92.05122	50328	< 950.		UG/KG	8/19/92		Benzo[a]pyrene
53-SC-H1-S	92.05122	205992	< 950.		UG/KG	8/19/92		Benzo[b]fluoranthene
53-SC-H1-S	92.05122	191242	< 950.		UG/KG	8/19/92		Benzo[g,h,i]perylene
53-SC-H1-S	92.05122	207089	< 950.		UG/KG	8/19/92		Benzo[k]fluoranthene
53-SC-H1-S	92.05122	65850	< 950.		UG/KG	8/19/92		Benzoic acid
53-SC-H1-S	92.05122	100516	< 950.		UG/KG	8/19/92		Benzyl alcohol
53-SC-H1-S	92.05122	111911	< 950.		UG/KG	8/19/92		Bis(2-chloroethoxy)methane
53-SC-H1-S	92.05122	111444	< 950.		UG/KG	8/19/92		Bis(2-chloroethyl)ether
53-SC-H1-S	92.05122	108601	< 950.		UG/KG	8/19/92		Bis(2-chloroisopropyl)ether
53-SC-H1-S	92.05122	117817	< 950.		UG/KG	8/19/92		Bis(2-ethylhexyl)phthalate
53-SC-H1-S	92.05122	101553	< 950.		UG/KG	8/19/92		4-Bromophenylphenyl ether
53-SC-H1-S	92.05122	85687	< 950.		UG/KG	8/19/92		Butyl benzyl phthalate
53-SC-H1-S	92.05122	59507	< 950.		UG/KG	8/19/92		4-Chloro-3-methylphenol
53-SC-H1-S	92.05122	106478	< 950.		UG/KG	8/19/92		4-Chloroaniline
53-SC-H1-S	92.05122	91587	< 950.		UG/KG	8/19/92		2-Chloronaphthalene
53-SC-H1-S	92.05122	95578	< 950.		UG/KG	8/19/92		o-Chlorophenol
53-SC-H1-S	92.05122	7005723	< 950.		UG/KG	8/19/92		4-Chlorophenylphenyl ether
53-SC-H1-S	92.05122	218019	< 950.		UG/KG	8/19/92		Chrysene
53-SC-H1-S	92.05122	84742	< 950.		UG/KG	8/19/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-H1-S	92.05122	117840	< 950.		UG/KG	8/19/92		Di-n-octyl phthalate
53-SC-H1-S	92.05122	53703	< 950.		UG/KG	8/19/92		Dibenzo[a,h]anthracene
53-SC-H1-S	92.05122	132649	< 950.		UG/KG	8/19/92		Dibenzofuran
53-SC-H1-S	92.05122	95501	< 950.		UG/KG	8/19/92		o-Dichlorobenzene (1,2)
53-SC-H1-S	92.05122	541731	< 950.		UG/KG	8/19/92		m-Dichlorobenzene (1,3)
53-SC-H1-S	92.05122	106467	< 950.		UG/KG	8/19/92		p-Dichlorobenzene (1,4)
53-SC-H1-S	92.05122	91941	< 950.		UG/KG	8/19/92		3,3'-Dichlorobenzidine
53-SC-H1-S	92.05122	120832	< 950.		UG/KG	8/19/92		2,4-Dichlorophenol
53-SC-H1-S	92.05122	84662	< 950.		UG/KG	8/19/92		Diethyl phthalate
53-SC-H1-S	92.05122	131113	< 950.		UG/KG	8/19/92		Dimethyl phthalate
53-SC-H1-S	92.05122	105679	< 950.		UG/KG	8/19/92		2,4-Dimethylphenol
53-SC-H1-S	92.05122	51285	< 950.		UG/KG	8/19/92		2,4-Dinitrophenol
53-SC-H1-S	92.05122	121142	< 950.		UG/KG	8/19/92		2,4-Dinitrotoluene
53-SC-H1-S	92.05122	606202	< 950.		UG/KG	8/19/92		2,6-Dinitrotoluene
53-SC-H1-S	92.05122	206440	< 950.		UG/KG	8/19/92		Fluoranthene
53-SC-H1-S	92.05122	86737	< 950.		UG/KG	8/19/92		Fluorene
53-SC-H1-S	92.05122	118741	< 950.		UG/KG	8/19/92		Hexachlorobenzene
53-SC-H1-S	92.05122	87683	< 950.		UG/KG	8/19/92		Hexachlorobutadiene
53-SC-H1-S	92.05122	77474	< 950.		UG/KG	8/19/92		Hexachlorocyclopentadiene
53-SC-H1-S	92.05122	67721	< 950.		UG/KG	8/19/92		Hexachloroethane
53-SC-H1-S	92.05122	193395	< 950.		UG/KG	8/19/92		Indeno[1,2,3-cd]pyrene
53-SC-H1-S	92.05122	78591	< 950.		UG/KG	8/19/92		Isophorone
53-SC-H1-S	92.05122	534521	< 950.		UG/KG	8/19/92		2-Methyl-4,6-dinitrophenol
53-SC-H1-S	92.05122	91576	< 950.		UG/KG	8/19/92		2-Methylnaphthalene
53-SC-H1-S	92.05122	95487	< 950.		UG/KG	8/19/92		2-Methylphenol
53-SC-H1-S	92.05122	106445	< 950.		UG/KG	8/19/92		4-Methylphenol
53-SC-H1-S	92.05122	91203	< 950.		UG/KG	8/19/92		Naphthalene
53-SC-H1-S	92.05122	88744	< 950.		UG/KG	8/19/92		2-Nitroaniline
53-SC-H1-S	92.05122	99092	< 950.		UG/KG	8/19/92		3-Nitroaniline
53-SC-H1-S	92.05122	100016	< 950.		UG/KG	8/19/92		4-Nitroaniline
53-SC-H1-S	92.05122	98953	< 950.		UG/KG	8/19/92		Nitrobenzene
53-SC-H1-S	92.05122	88755	< 950.		UG/KG	8/19/92		2-Nitrophenol
53-SC-H1-S	92.05122	100027	< 950.		UG/KG	8/19/92		4-Nitrophenol
53-SC-H1-S	92.05122	621647	< 950.		UG/KG	8/19/92		N-Nitrosodi-n-propylamine
53-SC-H1-S	92.05122	62759	< 950.		UG/KG	8/19/92		N-Nitrosodimethylamine
53-SC-H1-S	92.05122	86306	< 950.		UG/KG	8/19/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-H1-S	92.05122	87865	< 950.		UG/KG	8/19/92		Pentachlorophenol
53-SC-H1-S	92.05122	85018	< 950.		UG/KG	8/19/92		Phenanthrene
53-SC-H1-S	92.05122	108952	< 950.		UG/KG	8/19/92		Phenol
53-SC-H1-S	92.05122	129000	< 950.		UG/KG	8/19/92		Pyrene
53-SC-H1-S	92.05122	120821	< 950.		UG/KG	8/19/92		1,2,4-Trichlorobenzene
53-SC-H1-S	92.05122	95954	< 950.		UG/KG	8/19/92		2,4,5-Trichlorophenol
53-SC-H1-S	92.05122	88062	< 950.		UG/KG	8/19/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05122

none

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 19-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 277

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05123 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/27/92 Date Analyzed: 5/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-I1-S	92.05123	83329	< 950.		UG/KG	8/19/92		Acenaphthene
53-SC-I1-S	92.05123	208968	< 950.		UG/KG	8/19/92		Acenaphthylene
53-SC-I1-S	92.05123	62533	< 950.		UG/KG	8/19/92		Aniline
53-SC-I1-S	92.05123	120127	< 950.		UG/KG	8/19/92		Anthracene
53-SC-I1-S	92.05123	103333	< 950.		UG/KG	8/19/92		Azobenzene
53-SC-I1-S	92.05123	92875	< 950.		UG/KG	8/19/92		m-Benzidine
53-SC-I1-S	92.05123	56553	< 950.		UG/KG	8/19/92		Benzo[a]anthracene
53-SC-I1-S	92.05123	50328	< 950.		UG/KG	8/19/92		Benzo[a]pyrene
53-SC-I1-S	92.05123	205992	< 950.		UG/KG	8/19/92		Benzo[b]fluoranthene
53-SC-I1-S	92.05123	191242	< 950.		UG/KG	8/19/92		Benzo[g,h,i]perylene
53-SC-I1-S	92.05123	207089	< 950.		UG/KG	8/19/92		Benzo[k]fluoranthene
53-SC-I1-S	92.05123	65850	< 950.		UG/KG	8/19/92		Benzoic acid
53-SC-I1-S	92.05123	100516	< 950.		UG/KG	8/19/92		Benzyl alcohol
53-SC-I1-S	92.05123	111911	< 950.		UG/KG	8/19/92		Bis(2-chloroethoxy)methane
53-SC-I1-S	92.05123	111444	< 950.		UG/KG	8/19/92		Bis(2-chloroethyl)ether
53-SC-I1-S	92.05123	108601	< 950.		UG/KG	8/19/92		Bis(2-chloroisopropyl)ether
53-SC-I1-S	92.05123	117817	< 950.		UG/KG	8/19/92		Bis(2-ethylhexyl)phthalate
53-SC-I1-S	92.05123	101553	< 950.		UG/KG	8/19/92		4-Bromophenylphenyl ether
53-SC-I1-S	92.05123	85687	< 950.		UG/KG	8/19/92		Butyl benzyl phthalate
53-SC-I1-S	92.05123	59507	< 950.		UG/KG	8/19/92		4-Chloro-3-methylphenol
53-SC-I1-S	92.05123	106478	< 950.		UG/KG	8/19/92		4-Chloroaniline
53-SC-I1-S	92.05123	91587	< 950.		UG/KG	8/19/92		2-Chloronaphthalene
53-SC-I1-S	92.05123	95578	< 950.		UG/KG	8/19/92		o-Chlorophenol
53-SC-I1-S	92.05123	7005723	< 950.		UG/KG	8/19/92		4-Chlorophenylphenyl ether
53-SC-I1-S	92.05123	218019	< 950.		UG/KG	8/19/92		Chrysene
53-SC-I1-S	92.05123	84742	< 950.		UG/KG	8/19/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-I1-S	92.05123	117840	< 950.		UG/KG	8/19/92		Di-n-octyl phthalate
53-SC-I1-S	92.05123	53703	< 950.		UG/KG	8/19/92		Dibenzo[a,h]anthracene
53-SC-I1-S	92.05123	132649	< 950.		UG/KG	8/19/92		Dibenzofuran
53-SC-I1-S	92.05123	95501	< 950.		UG/KG	8/19/92		o-Dichlorobenzene (1,2)
53-SC-I1-S	92.05123	541731	< 950.		UG/KG	8/19/92		m-Dichlorobenzene (1,3)
53-SC-I1-S	92.05123	106467	< 950.		UG/KG	8/19/92		p-Dichlorobenzene (1,4)
53-SC-I1-S	92.05123	91941	< 950.		UG/KG	8/19/92		3,3'-Dichlorobenzidine
53-SC-I1-S	92.05123	120832	< 950.		UG/KG	8/19/92		2,4-Dichlorophenol
53-SC-I1-S	92.05123	84662	< 950.		UG/KG	8/19/92		Diethyl phthalate
53-SC-I1-S	92.05123	131113	< 950.		UG/KG	8/19/92		Dimethyl phthalate
53-SC-I1-S	92.05123	105679	< 950.		UG/KG	8/19/92		2,4-Dimethylphenol
53-SC-I1-S	92.05123	51285	< 950.		UG/KG	8/19/92		2,4-Dinitrophenol
53-SC-I1-S	92.05123	121142	< 950.		UG/KG	8/19/92		2,4-Dinitrotoluene
53-SC-I1-S	92.05123	606202	< 950.		UG/KG	8/19/92		2,6-Dinitrotoluene
53-SC-I1-S	92.05123	206440	< 950.		UG/KG	8/19/92		Fluoranthene
53-SC-I1-S	92.05123	86737	< 950.		UG/KG	8/19/92		Fluorene
53-SC-I1-S	92.05123	118741	< 950.		UG/KG	8/19/92		Hexachlorobenzene
53-SC-I1-S	92.05123	87683	< 950.		UG/KG	8/19/92		Hexachlorobutadiene
53-SC-I1-S	92.05123	77474	< 950.		UG/KG	8/19/92		Hexachlorocyclopentadiene
53-SC-I1-S	92.05123	67721	< 950.		UG/KG	8/19/92		Hexachloroethane
53-SC-I1-S	92.05123	193395	< 950.		UG/KG	8/19/92		Indeno[1,2,3-cd]pyrene
53-SC-I1-S	92.05123	78591	< 950.		UG/KG	8/19/92		Isophorone
53-SC-I1-S	92.05123	534521	< 950.		UG/KG	8/19/92		2-Methyl-4,6-dinitrophenol
53-SC-I1-S	92.05123	91576	< 950.		UG/KG	8/19/92		2-Methylnaphthalene
53-SC-I1-S	92.05123	95487	< 950.		UG/KG	8/19/92		2-Methylphenol
53-SC-I1-S	92.05123	106445	< 950.		UG/KG	8/19/92		4-Methylphenol
53-SC-I1-S	92.05123	91203	< 950.		UG/KG	8/19/92		Naphthalene
53-SC-I1-S	92.05123	88744	< 950.		UG/KG	8/19/92		2-Nitroaniline
53-SC-I1-S	92.05123	99092	< 950.		UG/KG	8/19/92		3-Nitroaniline
53-SC-I1-S	92.05123	100016	< 950.		UG/KG	8/19/92		4-Nitroaniline
53-SC-I1-S	92.05123	98953	< 950.		UG/KG	8/19/92		Nitrobenzene
53-SC-I1-S	92.05123	88755	< 950.		UG/KG	8/19/92		2-Nitrophenol
53-SC-I1-S	92.05123	100027	< 950.		UG/KG	8/19/92		4-Nitrophenol
53-SC-I1-S	92.05123	621647	< 950.		UG/KG	8/19/92		N-Nitrosodi-n-propylamine
53-SC-I1-S	92.05123	62759	< 950.		UG/KG	8/19/92		N-Nitrosodimethylamine
53-SC-I1-S	92.05123	86306	< 950.		UG/KG	8/19/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-I1-S	92.05123	87865	< 950.		UG/KG	8/19/92		Pentachlorophenol
53-SC-I1-S	92.05123	85018	< 950.		UG/KG	8/19/92		Phenanthrene
53-SC-I1-S	92.05123	108952	< 950.		UG/KG	8/19/92		Phenol
53-SC-I1-S	92.05123	129000	< 950.		UG/KG	8/19/92		Pyrene
53-SC-I1-S	92.05123	120821	< 950.		UG/KG	8/19/92		1,2,4-Trichlorobenzene
53-SC-I1-S	92.05123	95954	< 950.		UG/KG	8/19/92		2,4,5-Trichlorophenol
53-SC-I1-S	92.05123	88062	< 950.		UG/KG	8/19/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05123

none

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 19-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 277

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05124 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/27/92 Date Analyzed: 5/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-J1-S	92.05124	83329	< 1000.		UG/KG	8/19/92		Acenaphthene
53-SC-J1-S	92.05124	208968	< 1000.		UG/KG	8/19/92		Acenaphthylene
53-SC-J1-S	92.05124	62533	< 1000.		UG/KG	8/19/92		Aniline
53-SC-J1-S	92.05124	120127	< 1000.		UG/KG	8/19/92		Anthracene
53-SC-J1-S	92.05124	103333	< 1000.		UG/KG	8/19/92		Azobenzene
53-SC-J1-S	92.05124	92875	< 1000.		UG/KG	8/19/92		m-Benzidine
53-SC-J1-S	92.05124	56553	< 1000.		UG/KG	8/19/92		Benzo[a]anthracene
53-SC-J1-S	92.05124	50328	< 1000.		UG/KG	8/19/92		Benzo[a]pyrene
53-SC-J1-S	92.05124	205992	< 1000.		UG/KG	8/19/92		Benzo[b]fluoranthene
53-SC-J1-S	92.05124	191242	< 1000.		UG/KG	8/19/92		Benzo[g,h,i]perylene
53-SC-J1-S	92.05124	207089	< 1000.		UG/KG	8/19/92		Benzo[k]fluoranthene
53-SC-J1-S	92.05124	65850	< 1000.		UG/KG	8/19/92		Benzoic acid
53-SC-J1-S	92.05124	100516	< 1000.		UG/KG	8/19/92		Benzyl alcohol
53-SC-J1-S	92.05124	111911	< 1000.		UG/KG	8/19/92		Bis(2-chloroethoxy)methane
53-SC-J1-S	92.05124	111444	< 1000.		UG/KG	8/19/92		Bis(2-chloroethyl)ether
53-SC-J1-S	92.05124	108601	< 1000.		UG/KG	8/19/92		Bis(2-chloroisopropyl)ether
53-SC-J1-S	92.05124	117817	< 1000.		UG/KG	8/19/92		Bis(2-ethylhexyl)phthalate
53-SC-J1-S	92.05124	101553	< 1000.		UG/KG	8/19/92		4-Bromophenylphenyl ether
53-SC-J1-S	92.05124	85687	< 1000.		UG/KG	8/19/92		Butyl benzyl phthalate
53-SC-J1-S	92.05124	59507	< 1000.		UG/KG	8/19/92		4-Chloro-3-methylphenol
53-SC-J1-S	92.05124	106478	< 1000.		UG/KG	8/19/92		4-Chloroaniline
53-SC-J1-S	92.05124	91587	< 1000.		UG/KG	8/19/92		2-Chloronaphthalene
53-SC-J1-S	92.05124	95578	< 1000.		UG/KG	8/19/92		o-Chlorophenol
53-SC-J1-S	92.05124	7005723	< 1000.		UG/KG	8/19/92		4-Chlorophenylphenyl ether
53-SC-J1-S	92.05124	218019	< 1000.		UG/KG	8/19/92		Chrysene
53-SC-J1-S	92.05124	84742	< 1000.		UG/KG	8/19/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-J1-S	92.05124	117840	< 1000.		UG/KG	8/19/92		Di-n-octyl phthalate
53-SC-J1-S	92.05124	53703	< 1000.		UG/KG	8/19/92		Dibenzo[a,h]anthracene
53-SC-J1-S	92.05124	132649	< 1000.		UG/KG	8/19/92		Dibenzofuran
53-SC-J1-S	92.05124	95501	< 1000.		UG/KG	8/19/92		o-Dichlorobenzene (1,2)
53-SC-J1-S	92.05124	541731	< 1000.		UG/KG	8/19/92		m-Dichlorobenzene (1,3)
53-SC-J1-S	92.05124	106467	< 1000.		UG/KG	8/19/92		p-Dichlorobenzene (1,4)
53-SC-J1-S	92.05124	91941	< 1000.		UG/KG	8/19/92		3,3'-Dichlorobenzidine
53-SC-J1-S	92.05124	120832	< 1000.		UG/KG	8/19/92		2,4-Dichlorophenol
53-SC-J1-S	92.05124	84662	< 1000.		UG/KG	8/19/92		Diethyl phthalate
53-SC-J1-S	92.05124	131113	< 1000.		UG/KG	8/19/92		Dimethyl phthalate
53-SC-J1-S	92.05124	105679	< 1000.		UG/KG	8/19/92		2,4-Dimethylphenol
53-SC-J1-S	92.05124	51285	< 1000.		UG/KG	8/19/92		2,4-Dinitrophenol
53-SC-J1-S	92.05124	121142	< 1000.		UG/KG	8/19/92		2,4-Dinitrotoluene
53-SC-J1-S	92.05124	606202	< 1000.		UG/KG	8/19/92		2,6-Dinitrotoluene
53-SC-J1-S	92.05124	206440	< 1000.		UG/KG	8/19/92		Fluoranthene
53-SC-J1-S	92.05124	86737	< 1000.		UG/KG	8/19/92		Fluorene
53-SC-J1-S	92.05124	118741	< 1000.		UG/KG	8/19/92		Hexachlorobenzene
53-SC-J1-S	92.05124	87683	< 1000.		UG/KG	8/19/92		Hexachlorobutadiene
53-SC-J1-S	92.05124	77474	< 1000.		UG/KG	8/19/92		Hexachlorocyclopentadiene
53-SC-J1-S	92.05124	67721	< 1000.		UG/KG	8/19/92		Hexachloroethane
53-SC-J1-S	92.05124	193395	< 1000.		UG/KG	8/19/92		Indeno[1,2,3-cd]pyrene
53-SC-J1-S	92.05124	78591	< 1000.		UG/KG	8/19/92		Isophorone
53-SC-J1-S	92.05124	534521	< 1000.		UG/KG	8/19/92		2-Methyl-4,6-dinitrophenol
53-SC-J1-S	92.05124	91576	< 1000.		UG/KG	8/19/92		2-Methylnaphthalene
53-SC-J1-S	92.05124	95487	< 1000.		UG/KG	8/19/92		2-Methylphenol
53-SC-J1-S	92.05124	106445	< 1000.		UG/KG	8/19/92		4-Methylphenol
53-SC-J1-S	92.05124	91203	< 1000.		UG/KG	8/19/92		Naphthalene
53-SC-J1-S	92.05124	88744	< 1000.		UG/KG	8/19/92		2-Nitroaniline
53-SC-J1-S	92.05124	99092	< 1000.		UG/KG	8/19/92		3-Nitroaniline
53-SC-J1-S	92.05124	100016	< 1000.		UG/KG	8/19/92		4-Nitroaniline
[illegible]	92.05124	98953	< 1000.		UG/KG	8/19/92		Nitrobenzene
[illegible]	92.05124	88755	< 1000.		UG/KG	8/19/92		2-Nitrophenol
53-SC-J1-S	92.05124	100027	< 1000.		UG/KG	8/19/92		4-Nitrophenol
53-SC-J1-S	92.05124	621647	< 1000.		UG/KG	8/19/92		N-Nitrosodi-n-propylamine
53-SC-J1-S	92.05124	62759	< 1000.		UG/KG	8/19/92		N-Nitrosodimethylamine
53-SC-J1-S	92.05124	86306	< 1000.		UG/KG	8/19/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-J1-S	92.05124	87865	< 1000.		UG/KG	8/19/92		Pentachlorophenol
53-SC-J1-S	92.05124	85018	< 1000.		UG/KG	8/19/92		Phenanthrene
53-SC-J1-S	92.05124	108952	< 1000.		UG/KG	8/19/92		Phenol
53-SC-J1-S	92.05124	129000	< 1000.		UG/KG	8/19/92		Pyrene
53-SC-J1-S	92.05124	120821	< 1000.		UG/KG	8/19/92		1,2,4-Trichlorobenzene
53-SC-J1-S	92.05124	95954	< 1000.		UG/KG	8/19/92		2,4,5-Trichlorophenol
53-SC-J1-S	92.05124	88062	< 1000.		UG/KG	8/19/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05124

none

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 19-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 277

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05125 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/27/92 Date Analyzed: 5/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-K1-S	92.05125	83329	< 970.		UG/KG	8/19/92		Acenaphthene
53-SC-K1-S	92.05125	208968	< 970.		UG/KG	8/19/92		Acenaphthylene
53-SC-K1-S	92.05125	62533	< 970.		UG/KG	8/19/92		Aniline
53-SC-K1-S	92.05125	120127	< 970.		UG/KG	8/19/92		Anthracene
53-SC-K1-S	92.05125	103333	< 970.		UG/KG	8/19/92		Azobenzene
53-SC-K1-S	92.05125	92875	< 970.		UG/KG	8/19/92		m-Benzidine
53-SC-K1-S	92.05125	56553	< 970.		UG/KG	8/19/92		Benzo[a]anthracene
53-SC-K1-S	92.05125	50328	< 970.		UG/KG	8/19/92		Benzo[a]pyrene
53-SC-K1-S	92.05125	205992	< 970.		UG/KG	8/19/92		Benzo[b]fluoranthene
53-SC-K1-S	92.05125	191242	< 970.		UG/KG	8/19/92		Benzo[g,h,i]perylene
53-SC-K1-S	92.05125	207089	< 970.		UG/KG	8/19/92		Benzo[k]fluoranthene
53-SC-K1-S	92.05125	65850	< 970.		UG/KG	8/19/92		Benzoic acid
53-SC-K1-S	92.05125	100516	< 970.		UG/KG	8/19/92		Benzyl alcohol
53-SC-K1-S	92.05125	111911	< 970.		UG/KG	8/19/92		Bis(2-chloroethoxy)methane
53-SC-K1-S	92.05125	111444	< 970.		UG/KG	8/19/92		Bis(2-chloroethyl)ether
53-SC-K1-S	92.05125	108601	< 970.		UG/KG	8/19/92		Bis(2-chloroisopropyl)ether
53-SC-K1-S	92.05125	117817	< 970.		UG/KG	8/19/92		Bis(2-ethylhexyl)phthalate
53-SC-K1-S	92.05125	101553	< 970.		UG/KG	8/19/92		4-Bromophenylphenyl ether
53-SC-K1-S	92.05125	85687	< 970.		UG/KG	8/19/92		Butyl benzyl phthalate
53-SC-K1-S	92.05125	59507	< 970.		UG/KG	8/19/92		4-Chloro-3-methylphenol
53-SC-K1-S	92.05125	106478	< 970.		UG/KG	8/19/92		4-Chloroaniline
53-SC-K1-S	92.05125	91587	< 970.		UG/KG	8/19/92		2-Chloronaphthalene
53-SC-K1-S	92.05125	95578	< 970.		UG/KG	8/19/92		o-Chlorophenol
53-SC-K1-S	92.05125	7005723	< 970.		UG/KG	8/19/92		4-Chlorophenylphenyl ether
53-SC-K1-S	92.05125	218019	< 970.		UG/KG	8/19/92		Chrysene
53-SC-K1-S	92.05125	84742	< 970.		UG/KG	8/19/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-K1-S	92.05125	117840	< 970.		UG/KG	8/19/92		Di-n-octyl phthalate
53-SC-K1-S	92.05125	53703	< 970.		UG/KG	8/19/92		Dibenzo[a,h]anthracene
53-SC-K1-S	92.05125	132649	< 970.		UG/KG	8/19/92		Dibenzofuran
53-SC-K1-S	92.05125	95501	< 970.		UG/KG	8/19/92		o-Dichlorobenzene (1,2)
53-SC-K1-S	92.05125	541731	< 970.		UG/KG	8/19/92		m-Dichlorobenzene (1,3)
53-SC-K1-S	92.05125	106467	< 970.		UG/KG	8/19/92		p-Dichlorobenzene (1,4)
53-SC-K1-S	92.05125	91941	< 970.		UG/KG	8/19/92		3,3'-Dichlorobenzidine
53-SC-K1-S	92.05125	120832	< 970.		UG/KG	8/19/92		2,4-Dichlorophenol
53-SC-K1-S	92.05125	84662	< 970.		UG/KG	8/19/92		Diethyl phthalate
53-SC-K1-S	92.05125	131113	< 970.		UG/KG	8/19/92		Dimethyl phthalate
53-SC-K1-S	92.05125	105679	< 970.		UG/KG	8/19/92		2,4-Dimethylphenol
53-SC-K1-S	92.05125	51285	< 970.		UG/KG	8/19/92		2,4-Dinitrophenol
53-SC-K1-S	92.05125	121142	< 970.		UG/KG	8/19/92		2,4-Dinitrotoluene
53-SC-K1-S	92.05125	606202	< 970.		UG/KG	8/19/92		2,6-Dinitrotoluene
53-SC-K1-S	92.05125	206440	< 970.		UG/KG	8/19/92		Fluoranthene
53-SC-K1-S	92.05125	86737	< 970.		UG/KG	8/19/92		Fluorene
53-SC-K1-S	92.05125	118741	< 970.		UG/KG	8/19/92		Hexachlorobenzene
53-SC-K1-S	92.05125	87683	< 970.		UG/KG	8/19/92		Hexachlorobutadiene
53-SC-K1-S	92.05125	77474	< 970.		UG/KG	8/19/92		Hexachlorocyclopentadiene
53-SC-K1-S	92.05125	67721	< 970.		UG/KG	8/19/92		Hexachloroethane
53-SC-K1-S	92.05125	193395	< 970.		UG/KG	8/19/92		Indeno[1,2,3-cd]pyrene
53-SC-K1-S	92.05125	78591	< 970.		UG/KG	8/19/92		Isophorone
53-SC-K1-S	92.05125	534521	< 970.		UG/KG	8/19/92		2-Methyl-4,6-dinitrophenol
53-SC-K1-S	92.05125	91576	< 970.		UG/KG	8/19/92		2-Methylnaphthalene
53-SC-K1-S	92.05125	95487	< 970.		UG/KG	8/19/92		2-Methylphenol
53-SC-K1-S	92.05125	106445	< 970.		UG/KG	8/19/92		4-Methylphenol
53-SC-K1-S	92.05125	91203	< 970.		UG/KG	8/19/92		Naphthalene
53-SC-K1-S	92.05125	88744	< 970.		UG/KG	8/19/92		2-Nitroaniline
53-SC-K1-S	92.05125	99092	< 970.		UG/KG	8/19/92		3-Nitroaniline
53-SC-K1-S	92.05125	100016	< 970.		UG/KG	8/19/92		4-Nitroaniline
53-SC-K1-S	92.05125	98953	< 970.		UG/KG	8/19/92		Nitrobenzene
53-SC-K1-S	92.05125	88755	< 970.		UG/KG	8/19/92		2-Nitrophenol
53-SC-K1-S	92.05125	100027	< 970.		UG/KG	8/19/92		4-Nitrophenol
53-SC-K1-S	92.05125	621647	< 970.		UG/KG	8/19/92		N-Nitrosodi-n-propylamine
53-SC-K1-S	92.05125	62759	< 970.		UG/KG	8/19/92		N-Nitrosodimethylamine
53-SC-K1-S	92.05125	86306	< 970.		UG/KG	8/19/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-K1-S	92.05125	87865	< 970.		UG/KG	8/19/92		Pentachlorophenol
53-SC-K1-S	92.05125	85018	< 970.		UG/KG	8/19/92		Phenanthrene
53-SC-K1-S	92.05125	108952	< 970.		UG/KG	8/19/92		Phenol
53-SC-K1-S	92.05125	129000	< 970.		UG/KG	8/19/92		Pyrene
53-SC-K1-S	92.05125	120821	< 970.		UG/KG	8/19/92		1,2,4-Trichlorobenzene
53-SC-K1-S	92.05125	95954	< 970.		UG/KG	8/19/92		2,4,5-Trichlorophenol
53-SC-K1-S	92.05125	88062	< 970.		UG/KG	8/19/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05125

none

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 19-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 277

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05126 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/27/92 Date Analyzed: 5/28/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-L1-S	92.05126	83329	< 990.		UG/KG	8/19/92		Acenaphthene
53-SC-L1-S	92.05126	208968	< 990.		UG/KG	8/19/92		Acenaphthylene
53-SC-L1-S	92.05126	62533	< 990.		UG/KG	8/19/92		Aniline
53-SC-L1-S	92.05126	120127	< 990.		UG/KG	8/19/92		Anthracene
53-SC-L1-S	92.05126	103333	< 990.		UG/KG	8/19/92		Azobenzene
53-SC-L1-S	92.05126	92875	< 990.		UG/KG	8/19/92		m-Benzidine
53-SC-L1-S	92.05126	56553	< 990.		UG/KG	8/19/92		Benzo[a]anthracene
53-SC-L1-S	92.05126	50328	< 990.		UG/KG	8/19/92		Benzo[a]pyrene
53-SC-L1-S	92.05126	205992	< 990.		UG/KG	8/19/92		Benzo[b]fluoranthene
53-SC-L1-S	92.05126	191242	< 990.		UG/KG	8/19/92		Benzo[g,h,i]perylene
53-SC-L1-S	92.05126	207089	< 990.		UG/KG	8/19/92		Benzo[k]fluoranthene
53-SC-L1-S	92.05126	65850	< 990.		UG/KG	8/19/92		Benzoic acid
53-SC-L1-S	92.05126	100516	< 990.		UG/KG	8/19/92		Benzyl alcohol
53-SC-L1-S	92.05126	111911	< 990.		UG/KG	8/19/92		Bis(2-chloroethoxy)methane
53-SC-L1-S	92.05126	111444	< 990.		UG/KG	8/19/92		Bis(2-chloroethyl)ether
53-SC-L1-S	92.05126	108601	< 990.		UG/KG	8/19/92		Bis(2-chloroisopropyl)ether
53-SC-L1-S	92.05126	117817	< 990.		UG/KG	8/19/92		Bis(2-ethylhexyl)phthalate
53-SC-L1-S	92.05126	101553	< 990.		UG/KG	8/19/92		4-Bromophenylphenyl ether
53-SC-L1-S	92.05126	85687	< 990.		UG/KG	8/19/92		Butyl benzyl phthalate
53-SC-L1-S	92.05126	59507	< 990.		UG/KG	8/19/92		4-Chloro-3-methylphenol
[illegible]	92.05126	106478	< 990.		UG/KG	8/19/92		4-Chloroaniline
[illegible]	92.05126	91587	< 990.		UG/KG	8/19/92		2-Chloronaphthalene
53-SC-L1-S	92.05126	95578	< 990.		UG/KG	8/19/92		o-Chlorophenol
53-SC-L1-S	92.05126	7005723	< 990.		UG/KG	8/19/92		4-Chlorophenylphenyl ether
53-SC-L1-S	92.05126	218019	< 990.		UG/KG	8/19/92		Chrysene
53-SC-L1-S	92.05126	84742	< 990.		UG/KG	8/19/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-L1-S	92.05126	117840	< 990.		UG/KG	8/19/92		Di-n-octyl phthalate
53-SC-L1-S	92.05126	53703	< 990.		UG/KG	8/19/92		Dibenzo[a,h]anthracene
53-SC-L1-S	92.05126	132649	< 990.		UG/KG	8/19/92		Dibenzofuran
53-SC-L1-S	92.05126	95501	< 990.		UG/KG	8/19/92		o-Dichlorobenzene (1,2)
53-SC-L1-S	92.05126	541731	< 990.		UG/KG	8/19/92		m-Dichlorobenzene (1,3)
53-SC-L1-S	92.05126	106467	< 990.		UG/KG	8/19/92		p-Dichlorobenzene (1,4)
53-SC-L1-S	92.05126	91941	< 990.		UG/KG	8/19/92		3,3'-Dichlorobenzidine
53-SC-L1-S	92.05126	120832	< 990.		UG/KG	8/19/92		2,4-Dichlorophenol
53-SC-L1-S	92.05126	84662	< 990.		UG/KG	8/19/92		Diethyl phthalate
53-SC-L1-S	92.05126	131113	< 990.		UG/KG	8/19/92		Dimethyl phthalate
53-SC-L1-S	92.05126	105679	< 990.		UG/KG	8/19/92		2,4-Dimethylphenol
53-SC-L1-S	92.05126	51285	< 990.		UG/KG	8/19/92		2,4-Dinitrophenol
53-SC-L1-S	92.05126	121142	< 990.		UG/KG	8/19/92		2,4-Dinitrotoluene
53-SC-L1-S	92.05126	606202	< 990.		UG/KG	8/19/92		2,6-Dinitrotoluene
53-SC-L1-S	92.05126	206440	< 990.		UG/KG	8/19/92		Fluoranthene
53-SC-L1-S	92.05126	86737	< 990.		UG/KG	8/19/92		Fluorene
53-SC-L1-S	92.05126	118741	< 990.		UG/KG	8/19/92		Hexachlorobenzene
53-SC-L1-S	92.05126	87683	< 990.		UG/KG	8/19/92		Hexachlorobutadiene
53-SC-L1-S	92.05126	77474	< 990.		UG/KG	8/19/92		Hexachlorocyclopentadiene
53-SC-L1-S	92.05126	67721	< 990.		UG/KG	8/19/92		Hexachloroethane
53-SC-L1-S	92.05126	193395	< 990.		UG/KG	8/19/92		Indeno[1,2,3-cd]pyrene
53-SC-L1-S	92.05126	78591	< 990.		UG/KG	8/19/92		Isophorone
53-SC-L1-S	92.05126	534521	< 990.		UG/KG	8/19/92		2-Methyl-4,6-dinitrophenol
53-SC-L1-S	92.05126	91576	< 990.		UG/KG	8/19/92		2-Methylnaphthalene
53-SC-L1-S	92.05126	95487	< 990.		UG/KG	8/19/92		2-Methylphenol
53-SC-L1-S	92.05126	106445	< 990.		UG/KG	8/19/92		4-Methylphenol
53-SC-L1-S	92.05126	91203	< 990.		UG/KG	8/19/92		Naphthalene
53-SC-L1-S	92.05126	88744	< 990.		UG/KG	8/19/92		2-Nitroaniline
53-SC-L1-S	92.05126	99092	< 990.		UG/KG	8/19/92		3-Nitroaniline
53-SC-L1-S	92.05126	100016	< 990.		UG/KG	8/19/92		4-Nitroaniline
53-SC-L1-S	92.05126	98953	< 990.		UG/KG	8/19/92		Nitrobenzene
53-SC-L1-S	92.05126	88755	< 990.		UG/KG	8/19/92		2-Nitrophenol
53-SC-L1-S	92.05126	100027	< 990.		UG/KG	8/19/92		4-Nitrophenol
53-SC-L1-S	92.05126	621647	< 990.		UG/KG	8/19/92		N-Nitrosodi-n-propylamine
53-SC-L1-S	92.05126	62759	< 990.		UG/KG	8/19/92		N-Nitrosodimethylamine
53-SC-L1-S	92.05126	86306	< 990.		UG/KG	8/19/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-L1-S	92.05126	87865	< 990.		UG/KG	8/19/92		Pentachlorophenol
53-SC-L1-S	92.05126	85018	< 990.		UG/KG	8/19/92		Phenanthrene
53-SC-L1-S	92.05126	108952	< 990.		UG/KG	8/19/92		Phenol
53-SC-L1-S	92.05126	129000	< 990.		UG/KG	8/19/92		Pyrene
53-SC-L1-S	92.05126	120821	< 990.		UG/KG	8/19/92		1,2,4-Trichlorobenzene
53-SC-L1-S	92.05126	95954	< 990.		UG/KG	8/19/92		2,4,5-Trichlorophenol
53-SC-L1-S	92.05126	88062	< 990.		UG/KG	8/19/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05126

none

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 19-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 277

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05127 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/27/92 Date Analyzed: 5/29/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-M1-S	92.05127	83329	< 950.		UG/KG	8/19/92		Acenaphthene
53-SC-M1-S	92.05127	208968	< 950.		UG/KG	8/19/92		Acenaphthylene
53-SC-M1-S	92.05127	62533	< 950.		UG/KG	8/19/92		Aniline
53-SC-M1-S	92.05127	120127	< 950.		UG/KG	8/19/92		Anthracene
53-SC-M1-S	92.05127	103333	< 950.		UG/KG	8/19/92		Azobenzene
53-SC-M1-S	92.05127	92875	< 950.		UG/KG	8/19/92		m-Benzidine
53-SC-M1-S	92.05127	56553	< 950.		UG/KG	8/19/92		Benzo[a]anthracene
53-SC-M1-S	92.05127	50328	< 950.		UG/KG	8/19/92		Benzo[a]pyrene
53-SC-M1-S	92.05127	205992	< 950.		UG/KG	8/19/92		Benzo[b]fluoranthene
53-SC-M1-S	92.05127	191242	< 950.		UG/KG	8/19/92		Benzo[g,h,i]perylene
53-SC-M1-S	92.05127	207089	< 950.		UG/KG	8/19/92		Benzo[k]fluoranthene
53-SC-M1-S	92.05127	65850	< 950.		UG/KG	8/19/92		Benzoic acid
53-SC-M1-S	92.05127	100516	< 950.		UG/KG	8/19/92		Benzyl alcohol
53-SC-M1-S	92.05127	111911	< 950.		UG/KG	8/19/92		Bis(2-chloroethoxy)methane
53-SC-M1-S	92.05127	111444	< 950.		UG/KG	8/19/92		Bis(2-chloroethyl)ether
53-SC-M1-S	92.05127	108601	< 950.		UG/KG	8/19/92		Bis(2-chloroisopropyl)ether
53-SC-M1-S	92.05127	117817	< 950.		UG/KG	8/19/92		Bis(2-ethylhexyl)phthalate
53-SC-M1-S	92.05127	101553	< 950.		UG/KG	8/19/92		4-Bromophenylphenyl ether
53-SC-M1-S	92.05127	85687	< 950.		UG/KG	8/19/92		Butyl benzyl phthalate
53-SC-M1-S	92.05127	59507	< 950.		UG/KG	8/19/92		4-Chloro-3-methylphenol
53-SC-M1-S	92.05127	106478	< 950.		UG/KG	8/19/92		4-Chloroaniline
53-SC-M1-S	92.05127	91587	< 950.		UG/KG	8/19/92		2-Chloronaphthalene
53-SC-M1-S	92.05127	95578	< 950.		UG/KG	8/19/92		o-Chlorophenol
53-SC-M1-S	92.05127	7005723	< 950.		UG/KG	8/19/92		4-Chlorophenylphenyl ether
53-SC-M1-S	92.05127	218019	< 950.		UG/KG	8/19/92		Chrysene
53-SC-M1-S	92.05127	84742	< 950.		UG/KG	8/19/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-M1-S	92.05127	117840	< 950.		UG/KG	8/19/92		Di-n-octyl phthalate
53-SC-M1-S	92.05127	53703	< 950.		UG/KG	8/19/92		Dibenzo[a,h]anthracene
53-SC-M1-S	92.05127	132649	< 950.		UG/KG	8/19/92		Dibenzofuran
53-SC-M1-S	92.05127	95501	< 950.		UG/KG	8/19/92		o-Dichlorobenzene (1,2)
53-SC-M1-S	92.05127	541731	< 950.		UG/KG	8/19/92		m-Dichlorobenzene (1,3)
53-SC-M1-S	92.05127	106467	< 950.		UG/KG	8/19/92		p-Dichlorobenzene (1,4)
53-SC-M1-S	92.05127	91941	< 950.		UG/KG	8/19/92		3,3'-Dichlorobenzidine
53-SC-M1-S	92.05127	120832	< 950.		UG/KG	8/19/92		2,4-Dichlorophenol
53-SC-M1-S	92.05127	84662	< 950.		UG/KG	8/19/92		Diethyl phthalate
53-SC-M1-S	92.05127	131113	< 950.		UG/KG	8/19/92		Dimethyl phthalate
53-SC-M1-S	92.05127	105679	< 950.		UG/KG	8/19/92		2,4-Dimethylphenol
53-SC-M1-S	92.05127	51285	< 950.		UG/KG	8/19/92		2,4-Dinitrophenol
53-SC-M1-S	92.05127	121142	< 950.		UG/KG	8/19/92		2,4-Dinitrotoluene
53-SC-M1-S	92.05127	606202	< 950.		UG/KG	8/19/92		2,6-Dinitrotoluene
53-SC-M1-S	92.05127	206440	< 950.		UG/KG	8/19/92		Fluoranthene
53-SC-M1-S	92.05127	86737	< 950.		UG/KG	8/19/92		Fluorene
53-SC-M1-S	92.05127	118741	< 950.		UG/KG	8/19/92		Hexachlorobenzene
53-SC-M1-S	92.05127	87683	< 950.		UG/KG	8/19/92		Hexachlorobutadiene
53-SC-M1-S	92.05127	77474	< 950.		UG/KG	8/19/92		Hexachlorocyclopentadiene
53-SC-M1-S	92.05127	67721	< 950.		UG/KG	8/19/92		Hexachloroethane
53-SC-M1-S	92.05127	193395	< 950.		UG/KG	8/19/92		Indeno[1,2,3-cd]pyrene
53-SC-M1-S	92.05127	78591	< 950.		UG/KG	8/19/92		Isophorone
53-SC-M1-S	92.05127	534521	< 950.		UG/KG	8/19/92		2-Methyl-4,6-dinitrophenol
53-SC-M1-S	92.05127	91576	< 950.		UG/KG	8/19/92		2-Methylnaphthalene
53-SC-M1-S	92.05127	95487	< 950.		UG/KG	8/19/92		2-Methylphenol
53-SC-M1-S	92.05127	106445	< 950.		UG/KG	8/19/92		4-Methylphenol
53-SC-M1-S	92.05127	91203	< 950.		UG/KG	8/19/92		Naphthalene
53-SC-M1-S	92.05127	88744	< 950.		UG/KG	8/19/92		2-Nitroaniline
53-SC-M1-S	92.05127	99092	< 950.		UG/KG	8/19/92		3-Nitroaniline
53-SC-M1-S	92.05127	100016	< 950.		UG/KG	8/19/92		4-Nitroaniline
53-SC-M1-S	92.05127	98953	< 950.		UG/KG	8/19/92		Nitrobenzene
53-SC-M1-S	92.05127	88755	< 950.		UG/KG	8/19/92		2-Nitrophenol
53-SC-M1-S	92.05127	100027	< 950.		UG/KG	8/19/92		4-Nitrophenol
53-SC-M1-S	92.05127	621647	< 950.		UG/KG	8/19/92		N-Nitrosodi-n-propylamine
53-SC-M1-S	92.05127	62759	< 950.		UG/KG	8/19/92		N-Nitrosodimethylamine
53-SC-M1-S	92.05127	86306	< 950.		UG/KG	8/19/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-M1-S	92.05127	87865	< 950.		UG/KG	8/19/92		Pentachlorophenol
53-SC-M1-S	92.05127	85018	< 950.		UG/KG	8/19/92		Phenanthrene
53-SC-M1-S	92.05127	108952	< 950.		UG/KG	8/19/92		Phenol
53-SC-M1-S	92.05127	129000	< 950.		UG/KG	8/19/92		Pyrene
53-SC-M1-S	92.05127	120821	< 950.		UG/KG	8/19/92		1,2,4-Trichlorobenzene
53-SC-M1-S	92.05127	95954	< 950.		UG/KG	8/19/92		2,4,5-Trichlorophenol
53-SC-M1-S	92.05127	88062	< 950.		UG/KG	8/19/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05127

none

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 19-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 277

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05128 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/27/92 Date Analyzed: 5/29/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-N1-S	92.05128	83329	< 990.		UG/KG	8/19/92		Acenaphthene
53-SC-N1-S	92.05128	208968	< 990.		UG/KG	8/19/92		Acenaphthylene
53-SC-N1-S	92.05128	62533	< 990.		UG/KG	8/19/92		Aniline
53-SC-N1-S	92.05128	120127	< 990.		UG/KG	8/19/92		Anthracene
53-SC-N1-S	92.05128	103333	< 990.		UG/KG	8/19/92		Azobenzene
53-SC-N1-S	92.05128	92875	< 990.		UG/KG	8/19/92		m-Benzidine
53-SC-N1-S	92.05128	56553	< 990.		UG/KG	8/19/92		Benzo[a]anthracene
53-SC-N1-S	92.05128	50328	< 990.		UG/KG	8/19/92		Benzo[a]pyrene
53-SC-N1-S	92.05128	205992	< 990.		UG/KG	8/19/92		Benzo[b]fluoranthene
53-SC-N1-S	92.05128	191242	< 990.		UG/KG	8/19/92		Benzo[g,h,i]perylene
53-SC-N1-S	92.05128	207089	< 990.		UG/KG	8/19/92		Benzo[k]fluoranthene
53-SC-N1-S	92.05128	65850	< 990.		UG/KG	8/19/92		Benzoic acid
53-SC-N1-S	92.05128	100516	< 990.		UG/KG	8/19/92		Benzyl alcohol
53-SC-N1-S	92.05128	111911	< 990.		UG/KG	8/19/92		Bis(2-chloroethoxy)methane
53-SC-N1-S	92.05128	111444	< 990.		UG/KG	8/19/92		Bis(2-chloroethyl)ether
53-SC-N1-S	92.05128	108601	< 990.		UG/KG	8/19/92		Bis(2-chloroisopropyl)ether
53-SC-N1-S	92.05128	117817	< 990.		UG/KG	8/19/92		Bis(2-ethylhexyl)phthalate
53-SC-N1-S	92.05128	101553	< 990.		UG/KG	8/19/92		4-Bromophenylphenyl ether
53-SC-N1-S	92.05128	85687	< 990.		UG/KG	8/19/92		Butyl benzyl phthalate
53-SC-N1-S	92.05128	59507	< 990.		UG/KG	8/19/92		4-Chloro-3-methylphenol
53-SC-N1-S	92.05128	106478	< 990.		UG/KG	8/19/92		4-Chloroaniline
53-SC-N1-S	92.05128	91587	< 990.		UG/KG	8/19/92		2-Chloronaphthalene
53-SC-N1-S	92.05128	95578	< 990.		UG/KG	8/19/92		o-Chlorophenol
53-SC-N1-S	92.05128	7005723	< 990.		UG/KG	8/19/92		4-Chlorophenylphenyl ether
53-SC-N1-S	92.05128	218019	< 990.		UG/KG	8/19/92		Chrysene
53-SC-N1-S	92.05128	84742	< 990.		UG/KG	8/19/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-N1-S	92.05128	117840	< 990.		UG/KG	8/19/92		Di-n-octyl phthalate
53-SC-N1-S	92.05128	53703	< 990.		UG/KG	8/19/92		Dibenzo[a,h]anthracene
53-SC-N1-S	92.05128	132649	< 990.		UG/KG	8/19/92		Dibenzofuran
53-SC-N1-S	92.05128	95501	< 990.		UG/KG	8/19/92		o-Dichlorobenzene (1,2)
53-SC-N1-S	92.05128	541731	< 990.		UG/KG	8/19/92		m-Dichlorobenzene (1,3)
53-SC-N1-S	92.05128	106467	< 990.		UG/KG	8/19/92		p-Dichlorobenzene (1,4)
53-SC-N1-S	92.05128	91941	< 990.		UG/KG	8/19/92		3,3'-Dichlorobenzidine
53-SC-N1-S	92.05128	120832	< 990.		UG/KG	8/19/92		2,4-Dichlorophenol
53-SC-N1-S	92.05128	84662	< 990.		UG/KG	8/19/92		Diethyl phthalate
53-SC-N1-S	92.05128	131113	< 990.		UG/KG	8/19/92		Dimethyl phthalate
53-SC-N1-S	92.05128	105679	< 990.		UG/KG	8/19/92		2,4-Dimethylphenol
53-SC-N1-S	92.05128	51285	< 990.		UG/KG	8/19/92		2,4-Dinitrophenol
53-SC-N1-S	92.05128	121142	< 990.		UG/KG	8/19/92		2,4-Dinitrotoluene
53-SC-N1-S	92.05128	606202	< 990.		UG/KG	8/19/92		2,6-Dinitrotoluene
53-SC-N1-S	92.05128	206440	< 990.		UG/KG	8/19/92		Fluoranthene
53-SC-N1-S	92.05128	86737	< 990.		UG/KG	8/19/92		Fluorene
53-SC-N1-S	92.05128	118741	< 990.		UG/KG	8/19/92		Hexachlorobenzene
53-SC-N1-S	92.05128	87683	< 990.		UG/KG	8/19/92		Hexachlorobutadiene
53-SC-N1-S	92.05128	77474	< 990.		UG/KG	8/19/92		Hexachlorocyclopentadiene
53-SC-N1-S	92.05128	67721	< 990.		UG/KG	8/19/92		Hexachloroethane
53-SC-N1-S	92.05128	193395	< 990.		UG/KG	8/19/92		Indeno[1,2,3-cd]pyrene
53-SC-N1-S	92.05128	78591	< 990.		UG/KG	8/19/92		Isophorone
53-SC-N1-S	92.05128	534521	< 990.		UG/KG	8/19/92		2-Methyl-4,6-dinitrophenol
53-SC-N1-S	92.05128	91576	< 990.		UG/KG	8/19/92		2-Methylnaphthalene
53-SC-N1-S	92.05128	95487	< 990.		UG/KG	8/19/92		2-Methylphenol
53-SC-N1-S	92.05128	106445	< 990.		UG/KG	8/19/92		4-Methylphenol
53-SC-N1-S	92.05128	91203	< 990.		UG/KG	8/19/92		Naphthalene
53-SC-N1-S	92.05128	88744	< 990.		UG/KG	8/19/92		2-Nitroaniline
53-SC-N1-S	92.05128	99092	< 990.		UG/KG	8/19/92		3-Nitroaniline
53-SC-N1-S	92.05128	100016	< 990.		UG/KG	8/19/92		4-Nitroaniline
53-SC-N1-S	92.05128	98953	< 990.		UG/KG	8/19/92		Nitrobenzene
53-SC-N1-S	92.05128	88755	< 990.		UG/KG	8/19/92		2-Nitrophenol
53-SC-N1-S	92.05128	100027	< 990.		UG/KG	8/19/92		4-Nitrophenol
53-SC-N1-S	92.05128	621647	< 990.		UG/KG	8/19/92		N-Nitrosodi-n-propylamine
53-SC-N1-S	92.05128	62759	< 990.		UG/KG	8/19/92		N-Nitrosodimethylamine
53-SC-N1-S	92.05128	86306	< 990.		UG/KG	8/19/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-N1-S	92.05128	87865	< 990.		UG/KG	8/19/92		Pentachlorophenol
53-SC-N1-S	92.05128	85018	< 990.		UG/KG	8/19/92		Phenanthrene
53-SC-N1-S	92.05128	108952	< 990.		UG/KG	8/19/92		Phenol
53-SC-N1-S	92.05128	129000	< 990.		UG/KG	8/19/92		Pyrene
53-SC-N1-S	92.05128	120821	< 990.		UG/KG	8/19/92		1,2,4-Trichlorobenzene
53-SC-N1-S	92.05128	95954	< 990.		UG/KG	8/19/92		2,4,5-Trichlorophenol
53-SC-N1-S	92.05128	88062	< 990.		UG/KG	8/19/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05128

none

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 19-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 277

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05129 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/27/92 Date Analyzed: 5/29/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-01-S	92.05129	83329	< 940.		UG/KG	8/19/92		Acenaphthene
53-SC-01-S	92.05129	208968	< 940.		UG/KG	8/19/92		Acenaphthylene
53-SC-01-S	92.05129	62533	< 940.		UG/KG	8/19/92		Aniline
53-SC-01-S	92.05129	120127	< 940.		UG/KG	8/19/92		Anthracene
53-SC-01-S	92.05129	103333	< 940.		UG/KG	8/19/92		Azobenzene
53-SC-01-S	92.05129	92875	< 940.		UG/KG	8/19/92		m-Benzidine
53-SC-01-S	92.05129	56553	< 940.		UG/KG	8/19/92		Benzo[a]anthracene
53-SC-01-S	92.05129	50328	< 940.		UG/KG	8/19/92		Benzo[a]pyrene
53-SC-01-S	92.05129	205992	< 940.		UG/KG	8/19/92		Benzo[b]fluoranthene
53-SC-01-S	92.05129	191242	< 940.		UG/KG	8/19/92		Benzo[g,h,i]perylene
53-SC-01-S	92.05129	207089	< 940.		UG/KG	8/19/92		Benzo[k]fluoranthene
53-SC-01-S	92.05129	65850	< 940.		UG/KG	8/19/92		Benzoic acid
53-SC-01-S	92.05129	100516	< 940.		UG/KG	8/19/92		Benzyl alcohol
53-SC-01-S	92.05129	111911	< 940.		UG/KG	8/19/92		Bis(2-chloroethoxy)methane
53-SC-01-S	92.05129	111444	< 940.		UG/KG	8/19/92		Bis(2-chloroethyl)ether
53-SC-01-S	92.05129	108601	< 940.		UG/KG	8/19/92		Bis(2-chloroisopropyl)ether
53-SC-01-S	92.05129	117817	< 940.		UG/KG	8/19/92		Bis(2-ethylhexyl)phthalate
53-SC-01-S	92.05129	101553	< 940.		UG/KG	8/19/92		4-Bromophenylphenyl ether
53-SC-01-S	92.05129	85687	< 940.		UG/KG	8/19/92		Butyl benzyl phthalate
53-SC-01-S	92.05129	59507	< 940.		UG/KG	8/19/92		4-Chloro-3-methylphenol
53-SC-01-S	92.05129	106478	< 940.		UG/KG	8/19/92		4-Chloroaniline
53-SC-01-S	92.05129	91587	< 940.		UG/KG	8/19/92		2-Chloronaphthalene
53-SC-01-S	92.05129	95578	< 940.		UG/KG	8/19/92		o-Chlorophenol
53-SC-01-S	92.05129	7005723	< 940.		UG/KG	8/19/92		4-Chlorophenylphenyl ether
53-SC-01-S	92.05129	218019	< 940.		UG/KG	8/19/92		Chrysene
53-SC-01-S	92.05129	84742	< 940.		UG/KG	8/19/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-01-S	92.05129	117840	< 940.		UG/KG	8/19/92		Di-n-octyl phthalate
53-SC-01-S	92.05129	53703	< 940.		UG/KG	8/19/92		Dibenzo[a,h]anthracene
53-SC-01-S	92.05129	132649	< 940.		UG/KG	8/19/92		Dibenzofuran
53-SC-01-S	92.05129	95501	< 940.		UG/KG	8/19/92		o-Dichlorobenzene (1,2)
53-SC-01-S	92.05129	541731	< 940.		UG/KG	8/19/92		m-Dichlorobenzene (1,3)
53-SC-01-S	92.05129	106467	< 940.		UG/KG	8/19/92		p-Dichlorobenzene (1,4)
53-SC-01-S	92.05129	91941	< 940.		UG/KG	8/19/92		3,3'-Dichlorobenzidine
53-SC-01-S	92.05129	120832	< 940.		UG/KG	8/19/92		2,4-Dichlorophenol
53-SC-01-S	92.05129	84662	< 940.		UG/KG	8/19/92		Diethyl phthalate
53-SC-01-S	92.05129	131113	< 940.		UG/KG	8/19/92		Dimethyl phthalate
53-SC-01-S	92.05129	105679	< 940.		UG/KG	8/19/92		2,4-Dimethylphenol
53-SC-01-S	92.05129	51285	< 940.		UG/KG	8/19/92		2,4-Dinitrophenol
53-SC-01-S	92.05129	121142	< 940.		UG/KG	8/19/92		2,4-Dinitrotoluene
53-SC-01-S	92.05129	606202	< 940.		UG/KG	8/19/92		2,6-Dinitrotoluene
53-SC-01-S	92.05129	206440	< 940.		UG/KG	8/19/92		Fluoranthene
53-SC-01-S	92.05129	86737	< 940.		UG/KG	8/19/92		Fluorene
53-SC-01-S	92.05129	118741	< 940.		UG/KG	8/19/92		Hexachlorobenzene
53-SC-01-S	92.05129	87683	< 940.		UG/KG	8/19/92		Hexachlorobutadiene
53-SC-01-S	92.05129	77474	< 940.		UG/KG	8/19/92		Hexachlorocyclopentadiene
53-SC-01-S	92.05129	67721	< 940.		UG/KG	8/19/92		Hexachloroethane
53-SC-01-S	92.05129	193395	< 940.		UG/KG	8/19/92		Indeno[1,2,3-cd]pyrene
53-SC-01-S	92.05129	78591	< 940.		UG/KG	8/19/92		Isophorone
53-SC-01-S	92.05129	534521	< 940.		UG/KG	8/19/92		2-Methyl-4,6-dinitrophenol
53-SC-01-S	92.05129	91576	< 940.		UG/KG	8/19/92		2-Methylnaphthalene
53-SC-01-S	92.05129	95487	< 940.		UG/KG	8/19/92		2-Methylphenol
53-SC-01-S	92.05129	106445	< 940.		UG/KG	8/19/92		4-Methylphenol
53-SC-01-S	92.05129	91203	< 940.		UG/KG	8/19/92		Naphthalene
53-SC-01-S	92.05129	88744	< 940.		UG/KG	8/19/92		2-Nitroaniline
53-SC-01-S	92.05129	99092	< 940.		UG/KG	8/19/92		3-Nitroaniline
53-SC-01-S	92.05129	100016	< 940.		UG/KG	8/19/92		4-Nitroaniline
53-SC-01-S	92.05129	98953	< 940.		UG/KG	8/19/92		Nitrobenzene
53-SC-01-S	92.05129	88755	< 940.		UG/KG	8/19/92		2-Nitrophenol
53-SC-01-S	92.05129	100027	< 940.		UG/KG	8/19/92		4-Nitrophenol
53-SC-01-S	92.05129	621647	< 940.		UG/KG	8/19/92		N-Nitrosodi-n-propylamine
53-SC-01-S	92.05129	62759	< 940.		UG/KG	8/19/92		N-Nitrosodimethylamine
53-SC-01-S	92.05129	86306	< 940.		UG/KG	8/19/92		N-Nitrosodiphenylamine

REPORT NUMBER: 14942

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-01-S	92.05129	87865	< 940.		UG/KG	8/19/92		Pentachlorophenol
53-SC-01-S	92.05129	85018	< 940.		UG/KG	8/19/92		Phenanthrene
53-SC-01-S	92.05129	108952	< 940.		UG/KG	8/19/92		Phenol
53-SC-01-S	92.05129	129000	< 940.		UG/KG	8/19/92		Pyrene
53-SC-01-S	92.05129	120821	< 940.		UG/KG	8/19/92		1,2,4-Trichlorobenzene
53-SC-01-S	92.05129	95954	< 940.		UG/KG	8/19/92		2,4,5-Trichlorophenol
53-SC-01-S	92.05129	88062	< 940.		UG/KG	8/19/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05129

none

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 19-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 277

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05130 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/27/92 Date Analyzed: 5/31/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-P1-S	92.05130	83329	< 940.		UG/KG	8/19/92		Acenaphthene
53-SC-P1-S	92.05130	208968	< 940.		UG/KG	8/19/92		Acenaphthylene
53-SC-P1-S	92.05130	62533	< 940.		UG/KG	8/19/92		Aniline
53-SC-P1-S	92.05130	120127	< 940.		UG/KG	8/19/92		Anthracene
53-SC-P1-S	92.05130	103333	< 940.		UG/KG	8/19/92		Azobenzene
53-SC-P1-S	92.05130	92875	< 940.		UG/KG	8/19/92		m-Benzidine
53-SC-P1-S	92.05130	56553	< 940.		UG/KG	8/19/92		Benzo[a]anthracene
53-SC-P1-S	92.05130	50328	< 940.		UG/KG	8/19/92		Benzo[a]pyrene
53-SC-P1-S	92.05130	205992	< 940.		UG/KG	8/19/92		Benzo[b]fluoranthene
53-SC-P1-S	92.05130	191242	< 940.		UG/KG	8/19/92		Benzo[g,h,i]perylene
53-SC-P1-S	92.05130	207089	< 940.		UG/KG	8/19/92		Benzo[k]fluoranthene
53-SC-P1-S	92.05130	65850	< 940.		UG/KG	8/19/92		Benzoic acid
53-SC-P1-S	92.05130	100516	< 940.		UG/KG	8/19/92		Benzyl alcohol
53-SC-P1-S	92.05130	111911	< 940.		UG/KG	8/19/92		Bis(2-chloroethoxy)methane
53-SC-P1-S	92.05130	111444	< 940.		UG/KG	8/19/92		Bis(2-chloroethyl)ether
53-SC-P1-S	92.05130	108601	< 940.		UG/KG	8/19/92		Bis(2-chloroisopropyl)ether
53-SC-P1-S	92.05130	117817	1300.	390.	UG/KG	8/19/92		Bis(2-ethylhexyl)phthalate
53-SC-P1-S	92.05130	101553	< 940.		UG/KG	8/19/92		4-Bromophenylphenyl ether
53-SC-P1-S	92.05130	85687	< 940.		UG/KG	8/19/92		Butyl benzyl phthalate
53-SC-P1-S	92.05130	59507	< 940.		UG/KG	8/19/92		4-Chloro-3-methylphenol
53-SC-P1-S	92.05130	106478	< 940.		UG/KG	8/19/92		4-Chloroaniline
53-SC-P1-S	92.05130	91587	< 940.		UG/KG	8/19/92		2-Chloronaphthalene
53-SC-P1-S	92.05130	95578	< 940.		UG/KG	8/19/92		o-Chlorophenol
53-SC-P1-S	92.05130	7005723	< 940.		UG/KG	8/19/92		4-Chlorophenylphenyl ether
53-SC-P1-S	92.05130	218019	< 940.		UG/KG	8/19/92		Chrysene
53-SC-P1-S	92.05130	84742	< 940.		UG/KG	8/19/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-P1-S	92.05130	117840	< 940.		UG/KG	8/19/92		Di-n-octyl phthalate
53-SC-P1-S	92.05130	53703	< 940.		UG/KG	8/19/92		Dibenzo[a,h]anthracene
53-SC-P1-S	92.05130	132649	< 940.		UG/KG	8/19/92		Dibenzofuran
53-SC-P1-S	92.05130	95501	< 940.		UG/KG	8/19/92		o-Dichlorobenzene (1,2)
53-SC-P1-S	92.05130	541731	< 940.		UG/KG	8/19/92		m-Dichlorobenzene (1,3)
53-SC-P1-S	92.05130	106467	< 940.		UG/KG	8/19/92		p-Dichlorobenzene (1,4)
53-SC-P1-S	92.05130	91941	< 940.		UG/KG	8/19/92		3,3'-Dichlorobenzidine
53-SC-P1-S	92.05130	120832	< 940.		UG/KG	8/19/92		2,4-Dichlorophenol
53-SC-P1-S	92.05130	84662	< 940.		UG/KG	8/19/92		Diethyl phthalate
53-SC-P1-S	92.05130	131113	< 940.		UG/KG	8/19/92		Dimethyl phthalate
53-SC-P1-S	92.05130	105679	< 940.		UG/KG	8/19/92		2,4-Dimethylphenol
53-SC-P1-S	92.05130	51285	< 940.		UG/KG	8/19/92		2,4-Dinitrophenol
53-SC-P1-S	92.05130	121142	< 940.		UG/KG	8/19/92		2,4-Dinitrotoluene
53-SC-P1-S	92.05130	606202	< 940.		UG/KG	8/19/92		2,6-Dinitrotoluene
53-SC-P1-S	92.05130	206440	< 940.		UG/KG	8/19/92		Fluoranthene
53-SC-P1-S	92.05130	86737	< 940.		UG/KG	8/19/92		Fluorene
53-SC-P1-S	92.05130	118741	< 940.		UG/KG	8/19/92		Hexachlorobenzene
53-SC-P1-S	92.05130	87683	< 940.		UG/KG	8/19/92		Hexachlorobutadiene
53-SC-P1-S	92.05130	77474	< 940.		UG/KG	8/19/92		Hexachlorocyclopentadiene
53-SC-P1-S	92.05130	67721	< 940.		UG/KG	8/19/92		Hexachloroethane
53-SC-P1-S	92.05130	193395	< 940.		UG/KG	8/19/92		Indeno[1,2,3-cd]pyrene
53-SC-P1-S	92.05130	78591	< 940.		UG/KG	8/19/92		Isophorone
53-SC-P1-S	92.05130	534521	< 940.		UG/KG	8/19/92		2-Methyl-4,6-dinitrophenol
53-SC-P1-S	92.05130	91576	< 940.		UG/KG	8/19/92		2-Methylnaphthalene
53-SC-P1-S	92.05130	95487	< 940.		UG/KG	8/19/92		2-Methylphenol
53-SC-P1-S	92.05130	106445	< 940.		UG/KG	8/19/92		4-Methylphenol
53-SC-P1-S	92.05130	91203	< 940.		UG/KG	8/19/92		Naphthalene
53-SC-P1-S	92.05130	88744	< 940.		UG/KG	8/19/92		2-Nitroaniline
53-SC-P1-S	92.05130	99092	< 940.		UG/KG	8/19/92		3-Nitroaniline
53-SC-P1-S	92.05130	100016	< 940.		UG/KG	8/19/92		4-Nitroaniline
53-SC-P1-S	92.05130	98953	< 940.		UG/KG	8/19/92		Nitrobenzene
53-SC-P1-S	92.05130	88755	< 940.		UG/KG	8/19/92		2-Nitrophenol
53-SC-P1-S	92.05130	100027	< 940.		UG/KG	8/19/92		4-Nitrophenol
53-SC-P1-S	92.05130	621647	< 940.		UG/KG	8/19/92		N-Nitrosodi-n-propylamine
53-SC-P1-S	92.05130	62759	< 940.		UG/KG	8/19/92		N-Nitrosodimethylamine
53-SC-P1-S	92.05130	86306	< 940.		UG/KG	8/19/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-P1-S	92.05130	87865	< 940.		UG/KG	8/19/92		Pentachlorophenol
53-SC-P1-S	92.05130	85018	< 940.		UG/KG	8/19/92		Phenanthrene
53-SC-P1-S	92.05130	108952	< 940.		UG/KG	8/19/92		Phenol
53-SC-P1-S	92.05130	129000	< 940.		UG/KG	8/19/92		Pyrene
53-SC-P1-S	92.05130	120821	< 940.		UG/KG	8/19/92		1,2,4-Trichlorobenzene
53-SC-P1-S	92.05130	95954	< 940.		UG/KG	8/19/92		2,4,5-Trichlorophenol
53-SC-P1-S	92.05130	88062	< 940.		UG/KG	8/19/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05130

none

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 19-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 277

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05131 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/27/92 Date Analyzed: 5/31/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-Q1-S	92.05131	83329	< 970.		UG/KG	8/19/92		Acenaphthene
53-SC-Q1-S	92.05131	208968	< 970.		UG/KG	8/19/92		Acenaphthylene
53-SC-Q1-S	92.05131	62533	< 970.		UG/KG	8/19/92		Aniline
53-SC-Q1-S	92.05131	120127	< 970.		UG/KG	8/19/92		Anthracene
53-SC-Q1-S	92.05131	103333	< 970.		UG/KG	8/19/92		Azobenzene
53-SC-Q1-S	92.05131	92875	< 970.		UG/KG	8/19/92		m-Benzidine
53-SC-Q1-S	92.05131	56553	< 970.		UG/KG	8/19/92		Benzo[a]anthracene
53-SC-Q1-S	92.05131	50328	< 970.		UG/KG	8/19/92		Benzo[a]pyrene
53-SC-Q1-S	92.05131	205992	< 970.		UG/KG	8/19/92		Benzo[b]fluoranthene
53-SC-Q1-S	92.05131	191242	< 970.		UG/KG	8/19/92		Benzo[g,h,i]perylene
53-SC-Q1-S	92.05131	207089	< 970.		UG/KG	8/19/92		Benzo[k]fluoranthene
53-SC-Q1-S	92.05131	65850	< 970.		UG/KG	8/19/92		Benzoic acid
53-SC-Q1-S	92.05131	100516	< 970.		UG/KG	8/19/92		Benzyl alcohol
53-SC-Q1-S	92.05131	111911	< 970.		UG/KG	8/19/92		Bis(2-chloroethoxy)methane
53-SC-Q1-S	92.05131	111444	< 970.		UG/KG	8/19/92		Bis(2-chloroethyl)ether
53-SC-Q1-S	92.05131	108601	< 970.		UG/KG	8/19/92		Bis(2-chloroisopropyl)ether
53-SC-Q1-S	92.05131	117817	< 970.		UG/KG	8/19/92		Bis(2-ethylhexyl)phthalate
53-SC-Q1-S	92.05131	101553	< 970.		UG/KG	8/19/92		4-Bromophenylphenyl ether
53-SC-Q1-S	92.05131	85687	< 970.		UG/KG	8/19/92		Butyl benzyl phthalate
53-SC-Q1-S	92.05131	59507	< 970.		UG/KG	8/19/92		4-Chloro-3-methylphenol
53-SC-Q1-S	92.05131	106478	< 970.		UG/KG	8/19/92		4-Chloroaniline
53-SC-Q1-S	92.05131	91587	< 970.		UG/KG	8/19/92		2-Chloronaphthalene
53-SC-Q1-S	92.05131	95578	< 970.		UG/KG	8/19/92		o-Chlorophenol
53-SC-Q1-S	92.05131	7005723	< 970.		UG/KG	8/19/92		4-Chlorophenylphenyl ether
53-SC-Q1-S	92.05131	218019	< 970.		UG/KG	8/19/92		Chrysene
53-SC-Q1-S	92.05131	84742	< 970.		UG/KG	8/19/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-Q1-S	92.05131	117840	< 970.		UG/KG	8/19/92		Di-n-octyl phthalate
53-SC-Q1-S	92.05131	53703	< 970.		UG/KG	8/19/92		Dibenzo[a,h]anthracene
53-SC-Q1-S	92.05131	132649	< 970.		UG/KG	8/19/92		Dibenzofuran
53-SC-Q1-S	92.05131	95501	< 970.		UG/KG	8/19/92		o-Dichlorobenzene (1,2)
53-SC-Q1-S	92.05131	541731	< 970.		UG/KG	8/19/92		m-Dichlorobenzene (1,3)
53-SC-Q1-S	92.05131	106467	< 970.		UG/KG	8/19/92		p-Dichlorobenzene (1,4)
53-SC-Q1-S	92.05131	91941	< 970.		UG/KG	8/19/92		3,3'-Dichlorobenzidine
53-SC-Q1-S	92.05131	120832	< 970.		UG/KG	8/19/92		2,4-Dichlorophenol
53-SC-Q1-S	92.05131	84662	< 970.		UG/KG	8/19/92		Diethyl phthalate
53-SC-Q1-S	92.05131	131113	< 970.		UG/KG	8/19/92		Dimethyl phthalate
53-SC-Q1-S	92.05131	105679	< 970.		UG/KG	8/19/92		2,4-Dimethylphenol
53-SC-Q1-S	92.05131	51285	< 970.		UG/KG	8/19/92		2,4-Dinitrophenol
53-SC-Q1-S	92.05131	121142	< 970.		UG/KG	8/19/92		2,4-Dinitrotoluene
53-SC-Q1-S	92.05131	606202	< 970.		UG/KG	8/19/92		2,6-Dinitrotoluene
53-SC-Q1-S	92.05131	206440	< 970.		UG/KG	8/19/92		Fluoranthene
53-SC-Q1-S	92.05131	86737	< 970.		UG/KG	8/19/92		Fluorene
53-SC-Q1-S	92.05131	118741	< 970.		UG/KG	8/19/92		Hexachlorobenzene
53-SC-Q1-S	92.05131	87683	< 970.		UG/KG	8/19/92		Hexachlorobutadiene
53-SC-Q1-S	92.05131	77474	< 970.		UG/KG	8/19/92		Hexachlorocyclopentadiene
53-SC-Q1-S	92.05131	67721	< 970.		UG/KG	8/19/92		Hexachloroethane
53-SC-Q1-S	92.05131	193395	< 970.		UG/KG	8/19/92		Indeno[1,2,3-cd]pyrene
53-SC-Q1-S	92.05131	78591	< 970.		UG/KG	8/19/92		Isophorone
53-SC-Q1-S	92.05131	534521	< 970.		UG/KG	8/19/92		2-Methyl-4,6-dinitrophenol
53-SC-Q1-S	92.05131	91576	< 970.		UG/KG	8/19/92		2-Methylnaphthalene
53-SC-Q1-S	92.05131	95487	< 970.		UG/KG	8/19/92		2-Methylphenol
53-SC-Q1-S	92.05131	106445	< 970.		UG/KG	8/19/92		4-Methylphenol
53-SC-Q1-S	92.05131	91203	< 970.		UG/KG	8/19/92		Naphthalene
53-SC-Q1-S	92.05131	88744	< 970.		UG/KG	8/19/92		2-Nitroaniline
53-SC-Q1-S	92.05131	99092	< 970.		UG/KG	8/19/92		3-Nitroaniline
53-SC-Q1-S	92.05131	100016	< 970.		UG/KG	8/19/92		4-Nitroaniline
53-SC-Q1-S	92.05131	98953	< 970.		UG/KG	8/19/92		Nitrobenzene
53-SC-Q1-S	92.05131	88755	< 970.		UG/KG	8/19/92		2-Nitrophenol
53-SC-Q1-S	92.05131	100027	< 970.		UG/KG	8/19/92		4-Nitrophenol
53-SC-Q1-S	92.05131	621647	< 970.		UG/KG	8/19/92		N-Nitrosodi-n-propylamine
53-SC-Q1-S	92.05131	62759	< 970.		UG/KG	8/19/92		N-Nitrosodimethylamine
53-SC-Q1-S	92.05131	86306	< 970.		UG/KG	8/19/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-Q1-S	92.05131	87865	< 970.		UG/KG	8/19/92		Pentachlorophenol
53-SC-Q1-S	92.05131	85018	< 970.		UG/KG	8/19/92		Phenanthrene
53-SC-Q1-S	92.05131	108952	< 970.		UG/KG	8/19/92		Phenol
53-SC-Q1-S	92.05131	129000	< 970.		UG/KG	8/19/92		Pyrene
53-SC-Q1-S	92.05131	120821	< 970.		UG/KG	8/19/92		1,2,4-Trichlorobenzene
53-SC-Q1-S	92.05131	95954	< 970.		UG/KG	8/19/92		2,4,5-Trichlorophenol
53-SC-Q1-S	92.05131	88062	< 970.		UG/KG	8/19/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05131

none

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 19-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 277

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05132 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/27/92 Date Analyzed: 5/31/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-R1-S	92.05132	83329	< 950.		UG/KG	8/19/92		Acenaphthene
53-SC-R1-S	92.05132	208968	< 950.		UG/KG	8/19/92		Acenaphthylene
53-SC-R1-S	92.05132	62533	< 950.		UG/KG	8/19/92		Aniline
53-SC-R1-S	92.05132	120127	< 950.		UG/KG	8/19/92		Anthracene
53-SC-R1-S	92.05132	103333	< 950.		UG/KG	8/19/92		Azobenzene
53-SC-R1-S	92.05132	92875	< 950.		UG/KG	8/19/92		m-Benzidine
53-SC-R1-S	92.05132	56553	< 950.		UG/KG	8/19/92		Benzo[a]anthracene
53-SC-R1-S	92.05132	50328	< 950.		UG/KG	8/19/92		Benzo[a]pyrene
53-SC-R1-S	92.05132	205992	< 950.		UG/KG	8/19/92		Benzo[b]fluoranthene
53-SC-R1-S	92.05132	191242	< 950.		UG/KG	8/19/92		Benzo[g,h,i]perylene
53-SC-R1-S	92.05132	207089	< 950.		UG/KG	8/19/92		Benzo[k]fluoranthene
53-SC-R1-S	92.05132	65850	< 950.		UG/KG	8/19/92		Benzoic acid
53-SC-R1-S	92.05132	100516	< 950.		UG/KG	8/19/92		Benzyl alcohol
53-SC-R1-S	92.05132	111911	< 950.		UG/KG	8/19/92		Bis(2-chloroethoxy)methane
53-SC-R1-S	92.05132	111444	< 950.		UG/KG	8/19/92		Bis(2-chloroethyl)ether
53-SC-R1-S	92.05132	108601	< 950.		UG/KG	8/19/92		Bis(2-chloroisopropyl)ether
53-SC-R1-S	92.05132	117817	< 950.		UG/KG	8/19/92		Bis(2-ethylhexyl)phthalate
53-SC-R1-S	92.05132	101553	< 950.		UG/KG	8/19/92		4-Bromophenylphenyl ether
53-SC-R1-S	92.05132	85687	< 950.		UG/KG	8/19/92		Butyl benzyl phthalate
53-SC-R1-S	92.05132	59507	< 950.		UG/KG	8/19/92		4-Chloro-3-methylphenol
53-SC-R1-S	92.05132	106478	< 950.		UG/KG	8/19/92		4-Chloroaniline
53-SC-R1-S	92.05132	91587	< 950.		UG/KG	8/19/92		2-Chloronaphthalene
53-SC-R1-S	92.05132	95578	< 950.		UG/KG	8/19/92		o-Chlorophenol
53-SC-R1-S	92.05132	7005723	< 950.		UG/KG	8/19/92		4-Chlorophenylphenyl ether
53-SC-R1-S	92.05132	218019	< 950.		UG/KG	8/19/92		Chrysene
53-SC-R1-S	92.05132	84742	< 950.		UG/KG	8/19/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-R1-S	92.05132	117840	< 950.		UG/KG	8/19/92		Di-n-octyl phthalate
53-SC-R1-S	92.05132	53703	< 950.		UG/KG	8/19/92		Dibenzo[a,h]anthracene
53-SC-R1-S	92.05132	132649	< 950.		UG/KG	8/19/92		Dibenzofuran
53-SC-R1-S	92.05132	95501	< 950.		UG/KG	8/19/92		o-Dichlorobenzene (1,2)
53-SC-R1-S	92.05132	541731	< 950.		UG/KG	8/19/92		m-Dichlorobenzene (1,3)
53-SC-R1-S	92.05132	106467	< 950.		UG/KG	8/19/92		p-Dichlorobenzene (1,4)
53-SC-R1-S	92.05132	91941	< 950.		UG/KG	8/19/92		3,3'-Dichlorobenzidine
53-SC-R1-S	92.05132	120832	< 950.		UG/KG	8/19/92		2,4-Dichlorophenol
53-SC-R1-S	92.05132	84662	< 950.		UG/KG	8/19/92		Diethyl phthalate
53-SC-R1-S	92.05132	131113	< 950.		UG/KG	8/19/92		Dimethyl phthalate
53-SC-R1-S	92.05132	105679	< 950.		UG/KG	8/19/92		2,4-Dimethylphenol
53-SC-R1-S	92.05132	51285	< 950.		UG/KG	8/19/92		2,4-Dinitrophenol
53-SC-R1-S	92.05132	121142	< 950.		UG/KG	8/19/92		2,4-Dinitrotoluene
53-SC-R1-S	92.05132	606202	< 950.		UG/KG	8/19/92		2,6-Dinitrotoluene
53-SC-R1-S	92.05132	206440	< 950.		UG/KG	8/19/92		Fluoranthene
53-SC-R1-S	92.05132	86737	< 950.		UG/KG	8/19/92		Fluorene
53-SC-R1-S	92.05132	118741	< 950.		UG/KG	8/19/92		Hexachlorobenzene
53-SC-R1-S	92.05132	87683	< 950.		UG/KG	8/19/92		Hexachlorobutadiene
53-SC-R1-S	92.05132	77474	< 950.		UG/KG	8/19/92		Hexachlorocyclopentadiene
53-SC-R1-S	92.05132	67721	< 950.		UG/KG	8/19/92		Hexachloroethane
53-SC-R1-S	92.05132	193395	< 950.		UG/KG	8/19/92		Indeno[1,2,3-cd]pyrene
53-SC-R1-S	92.05132	78591	< 950.		UG/KG	8/19/92		Isophorone
53-SC-R1-S	92.05132	534521	< 950.		UG/KG	8/19/92		2-Methyl-4,6-dinitrophenol
53-SC-R1-S	92.05132	91576	< 950.		UG/KG	8/19/92		2-Methylnaphthalene
53-SC-R1-S	92.05132	95487	< 950.		UG/KG	8/19/92		2-Methylphenol
53-SC-R1-S	92.05132	106445	< 950.		UG/KG	8/19/92		4-Methylphenol
53-SC-R1-S	92.05132	91203	< 950.		UG/KG	8/19/92		Naphthalene
53-SC-R1-S	92.05132	88744	< 950.		UG/KG	8/19/92		2-Nitroaniline
53-SC-R1-S	92.05132	99092	< 950.		UG/KG	8/19/92		3-Nitroaniline
53-SC-R1-S	92.05132	100016	< 950.		UG/KG	8/19/92		4-Nitroaniline
53-SC-R1-S	92.05132	98953	< 950.		UG/KG	8/19/92		Nitrobenzene
53-SC-R1-S	92.05132	88755	< 950.		UG/KG	8/19/92		2-Nitrophenol
53-SC-R1-S	92.05132	100027	< 950.		UG/KG	8/19/92		4-Nitrophenol
53-SC-R1-S	92.05132	621647	< 950.		UG/KG	8/19/92		N-Nitrosodi-n-propylamine
53-SC-R1-S	92.05132	62759	< 950.		UG/KG	8/19/92		N-Nitrosodimethylamine
53-SC-R1-S	92.05132	86306	< 950.		UG/KG	8/19/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-R1-S	92.05132	87865	< 950.		UG/KG	8/19/92		Pentachlorophenol
53-SC-R1-S	92.05132	85018	< 950.		UG/KG	8/19/92		Phenanthrene
53-SC-R1-S	92.05132	108952	< 950.		UG/KG	8/19/92		Phenol
53-SC-R1-S	92.05132	129000	< 950.		UG/KG	8/19/92		Pyrene
53-SC-R1-S	92.05132	120821	< 950.		UG/KG	8/19/92		1,2,4-Trichlorobenzene
53-SC-R1-S	92.05132	95954	< 950.		UG/KG	8/19/92		2,4,5-Trichlorophenol
53-SC-R1-S	92.05132	88062	< 950.		UG/KG	8/19/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05132

none

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 19-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 277

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05133 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 5/31/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-S1-S	92.05133	83329	< 10000.		UG/KG	8/19/92		Acenaphthene
53-SC-S1-S	92.05133	208968	< 10000.		UG/KG	8/19/92		Acenaphthylene
53-SC-S1-S	92.05133	62533	< 10000.		UG/KG	8/19/92		Aniline
53-SC-S1-S	92.05133	120127	< 10000.		UG/KG	8/19/92		Anthracene
53-SC-S1-S	92.05133	103333	< 10000.		UG/KG	8/19/92		Azobenzene
53-SC-S1-S	92.05133	92875	< 10000.		UG/KG	8/19/92		m-Benzidine
53-SC-S1-S	92.05133	56553	< 10000.		UG/KG	8/19/92		Benzo[a]anthracene
53-SC-S1-S	92.05133	50328	< 10000.		UG/KG	8/19/92		Benzo[a]pyrene
53-SC-S1-S	92.05133	205992	< 10000.		UG/KG	8/19/92		Benzo[b]fluoranthene
53-SC-S1-S	92.05133	191242	< 10000.		UG/KG	8/19/92		Benzo[g,h,i]perylene
53-SC-S1-S	92.05133	207089	< 10000.		UG/KG	8/19/92		Benzo[k]fluoranthene
53-SC-S1-S	92.05133	65850	< 10000.		UG/KG	8/19/92		Benzoic acid
53-SC-S1-S	92.05133	100516	< 10000.		UG/KG	8/19/92		Benzyl alcohol
53-SC-S1-S	92.05133	111911	< 10000.		UG/KG	8/19/92		Bis(2-chloroethoxy)methane
53-SC-S1-S	92.05133	111444	< 10000.		UG/KG	8/19/92		Bis(2-chloroethyl)ether
53-SC-S1-S	92.05133	108601	< 10000.		UG/KG	8/19/92		Bis(2-chloroisopropyl)ether
53-SC-S1-S	92.05133	117817	< 10000.		UG/KG	8/19/92		Bis(2-ethylhexyl)phthalate
53-SC-S1-S	92.05133	101553	< 10000.		UG/KG	8/19/92		4-Bromophenylphenyl ether
53-SC-S1-S	92.05133	85687	< 10000.		UG/KG	8/19/92		Butyl benzyl phthalate
53-SC-S1-S	92.05133	59507	< 10000.		UG/KG	8/19/92		4-Chloro-3-methylphenol
53-SC-S1-S	92.05133	106478	< 10000.		UG/KG	8/19/92		4-Chloroaniline
53-SC-S1-S	92.05133	91587	< 10000.		UG/KG	8/19/92		2-Chloronaphthalene
53-SC-S1-S	92.05133	95578	< 10000.		UG/KG	8/19/92		o-Chlorophenol
53-SC-S1-S	92.05133	7005723	< 10000.		UG/KG	8/19/92		4-Chlorophenylphenyl ether
53-SC-S1-S	92.05133	218019	< 10000.		UG/KG	8/19/92		Chrysene
53-SC-S1-S	92.05133	84742	< 10000.		UG/KG	8/19/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-S1-S	92.05133	117840	< 10000.		UG/KG	8/19/92		Di-n-octyl phthalate
53-SC-S1-S	92.05133	53703	< 10000.		UG/KG	8/19/92		Dibenzo[a,h]anthracene
53-SC-S1-S	92.05133	132649	< 10000.		UG/KG	8/19/92		Dibenzofuran
53-SC-S1-S	92.05133	95501	< 10000.		UG/KG	8/19/92		o-Dichlorobenzene (1,2)
53-SC-S1-S	92.05133	541731	< 10000.		UG/KG	8/19/92		m-Dichlorobenzene (1,3)
53-SC-S1	92.05133	106467	< 10000.		UG/KG	8/19/92		p-Dichlorobenzene (1,4)
53-SC-S1-S	92.05133	91941	< 10000.		UG/KG	8/19/92		3,3'-Dichlorobenzidine
53-SC-S1-S	92.05133	120832	< 10000.		UG/KG	8/19/92		2,4-Dichlorophenol
53-SC-S1-S	92.05133	84662	< 10000.		UG/KG	8/19/92		Diethyl phthalate
53-SC-S1-S	92.05133	131113	< 10000.		UG/KG	8/19/92		Dimethyl phthalate
53-SC-S1-S	92.05133	105679	< 10000.		UG/KG	8/19/92		2,4-Dimethylphenol
53-SC-S1-S	92.05133	51285	< 10000.		UG/KG	8/19/92		2,4-Dinitrophenol
53-SC-S1-S	92.05133	121142	< 10000.		UG/KG	8/19/92		2,4-Dinitrotoluene
53-SC-S1-S	92.05133	606202	< 10000.		UG/KG	8/19/92		2,6-Dinitrotoluene
53-SC-S1-S	92.05133	206440	< 10000.		UG/KG	8/19/92		Fluoranthene
53-SC-S1-S	92.05133	86737	< 10000.		UG/KG	8/19/92		Fluorene
53-SC-S1-S	92.05133	118741	< 10000.		UG/KG	8/19/92		Hexachlorobenzene
53-SC-S1-S	92.05133	87683	< 10000.		UG/KG	8/19/92		Hexachlorobutadiene
53-SC-S1-S	92.05133	77474	< 10000.		UG/KG	8/19/92		Hexachlorocyclopentadiene
53-SC-S1-S	92.05133	67721	< 10000.		UG/KG	8/19/92		Hexachloroethane
53-SC-S1-S	92.05133	193395	< 10000.		UG/KG	8/19/92		Indeno[1,2,3-cd]pyrene
53-SC-S1-S	92.05133	78591	< 10000.		UG/KG	8/19/92		Isophorone
53-SC-S1-S	92.05133	534521	< 10000.		UG/KG	8/19/92		2-Methyl-4,6-dinitrophenol
53-SC-S1-S	92.05133	91576	< 10000.		UG/KG	8/19/92		2-Methylnaphthalene
53-SC-S1-S	92.05133	95487	< 10000.		UG/KG	8/19/92		2-Methylphenol
53-SC-S1-S	92.05133	106445	< 10000.		UG/KG	8/19/92		4-Methylphenol
53-SC-S1-S	92.05133	91203	< 10000.		UG/KG	8/19/92		Naphthalene
53-SC-S1-S	92.05133	88744	< 10000.		UG/KG	8/19/92		2-Nitroaniline
53-SC-S1-S	92.05133	99092	< 10000.		UG/KG	8/19/92		3-Nitroaniline
53-SC-S1-S	92.05133	100016	< 10000.		UG/KG	8/19/92		4-Nitroaniline
53-SC-S1-S	92.05133	98953	< 10000.		UG/KG	8/19/92		Nitrobenzene
53-SC-S1-S	92.05133	88755	< 10000.		UG/KG	8/19/92		2-Nitrophenol
53-SC-S1-S	92.05133	100027	< 10000.		UG/KG	8/19/92		4-Nitrophenol
53-SC-S1-S	92.05133	621647	< 10000.		UG/KG	8/19/92		N-Nitrosodi-n-propylamine
53-SC-S1-S	92.05133	62759	< 10000.		UG/KG	8/19/92		N-Nitrosodimethylamine
53-SC-S1-S	92.05133	86306	< 10000.		UG/KG	8/19/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-S1-S	92.05133	87865	< 10000.		UG/KG	8/19/92		Pentachlorophenol
53-SC-S1-S	92.05133	85018	< 10000.		UG/KG	8/19/92		Phenanthrene
53-SC-S1-S	92.05133	108952	< 10000.		UG/KG	8/19/92		Phenol
53-SC-S1-S	92.05133	129000	< 10000.		UG/KG	8/19/92		Pyrene
53-SC-S1-S	92.05133	120821	< 10000.		UG/KG	8/19/92		1,2,4-Trichlorobenzene
53-SC-S1-S	92.05133	95954	< 10000.		UG/KG	8/19/92		2,4,5-Trichlorophenol
53-SC-S1-S	92.05133	88062	< 10000.		UG/KG	8/19/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05133

none

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 19-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 277

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05134 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 5/31/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-T1-S	92.05134	83329	< 10000.		UG/KG	8/19/92		Acenaphthene
53-SC-T1-S	92.05134	208968	< 10000.		UG/KG	8/19/92		Acenaphthylene
53-SC-T1-S	92.05134	62533	< 10000.		UG/KG	8/19/92		Aniline
53-SC-T1-S	92.05134	120127	< 10000.		UG/KG	8/19/92		Anthracene
53-SC-T1-S	92.05134	103333	< 10000.		UG/KG	8/19/92		Azobenzene
53-SC-T1-S	92.05134	92875	< 10000.		UG/KG	8/19/92		m-Benzidine
53-SC-T1-S	92.05134	56553	< 10000.		UG/KG	8/19/92		Benzo[a]anthracene
53-SC-T1-S	92.05134	50328	< 10000.		UG/KG	8/19/92		Benzo[a]pyrene
53-SC-T1-S	92.05134	205992	< 10000.		UG/KG	8/19/92		Benzo[b]fluoranthene
53-SC-T1-S	92.05134	191242	< 10000.		UG/KG	8/19/92		Benzo[g,h,i]perylene
53-SC-T1-S	92.05134	207089	< 10000.		UG/KG	8/19/92		Benzo[k]fluoranthene
53-SC-T1-S	92.05134	65850	< 10000.		UG/KG	8/19/92		Benzoic acid
53-SC-T1-S	92.05134	100516	< 10000.		UG/KG	8/19/92		Benzyl alcohol
53-SC-T1-S	92.05134	111911	< 10000.		UG/KG	8/19/92		Bis(2-chloroethoxy)methane
53-SC-T1-S	92.05134	111444	< 10000.		UG/KG	8/19/92		Bis(2-chloroethyl)ether
53-SC-T1-S	92.05134	108601	< 10000.		UG/KG	8/19/92		Bis(2-chloroisopropyl)ether
53-SC-T1-S	92.05134	117817	< 10000.		UG/KG	8/19/92		Bis(2-ethylhexyl)phthalate
53-SC-T1-S	92.05134	101553	< 10000.		UG/KG	8/19/92		4-Bromophenylphenyl ether
53-SC-T1-S	92.05134	85687	< 10000.		UG/KG	8/19/92		Butyl benzyl phthalate
53-SC-T1-S	92.05134	59507	< 10000.		UG/KG	8/19/92		4-Chloro-3-methylphenol
53-SC-T1-S	92.05134	106478	< 10000.		UG/KG	8/19/92		4-Chloroaniline
53-SC-T1-S	92.05134	91587	< 10000.		UG/KG	8/19/92		2-Chloronaphthalene
53-SC-T1-S	92.05134	95578	< 10000.		UG/KG	8/19/92		o-Chlorophenol
53-SC-T1-S	92.05134	7005723	< 10000.		UG/KG	8/19/92		4-Chlorophenylphenyl ether
53-SC-T1-S	92.05134	218019	< 10000.		UG/KG	8/19/92		Chrysene
53-SC-T1-S	92.05134	84742	< 10000.		UG/KG	8/19/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-T1-S	92.05134	117840	< 10000.		UG/KG	8/19/92		Di-n-octyl phthalate
53-SC-T1-S	92.05134	53703	< 10000.		UG/KG	8/19/92		Dibenzo[a,h]anthracene
53-SC-T1-S	92.05134	132649	< 10000.		UG/KG	8/19/92		Dibenzofuran
53-SC-T1-S	92.05134	95501	< 10000.		UG/KG	8/19/92		o-Dichlorobenzene (1,2)
53-SC-T1-S	92.05134	541731	< 10000.		UG/KG	8/19/92		m-Dichlorobenzene (1,3)
53-SC-T1-S	92.05134	106467	< 10000.		UG/KG	8/19/92		p-Dichlorobenzene (1,4)
53-SC-T1-S	92.05134	91941	< 10000.		UG/KG	8/19/92		3,3'-Dichlorobenzidine
53-SC-T1-S	92.05134	120832	< 10000.		UG/KG	8/19/92		2,4-Dichlorophenol
53-SC-T1-S	92.05134	84662	< 10000.		UG/KG	8/19/92		Diethyl phthalate
53-SC-T1-S	92.05134	131113	< 10000.		UG/KG	8/19/92		Dimethyl phthalate
53-SC-T1-S	92.05134	105679	< 10000.		UG/KG	8/19/92		2,4-Dimethylphenol
53-SC-T1-S	92.05134	51285	< 10000.		UG/KG	8/19/92		2,4-Dinitrophenol
53-SC-T1-S	92.05134	121142	< 10000.		UG/KG	8/19/92		2,4-Dinitrotoluene
53-SC-T1-S	92.05134	606202	< 10000.		UG/KG	8/19/92		2,6-Dinitrotoluene
53-SC-T1-S	92.05134	206440	< 10000.		UG/KG	8/19/92		Fluoranthene
53-SC-T1-S	92.05134	86737	< 10000.		UG/KG	8/19/92		Fluorene
53-SC-T1-S	92.05134	118741	< 10000.		UG/KG	8/19/92		Hexachlorobenzene
53-SC-T1-S	92.05134	87683	< 10000.		UG/KG	8/19/92		Hexachlorobutadiene
53-SC-T1-S	92.05134	77474	< 10000.		UG/KG	8/19/92		Hexachlorocyclopentadiene
53-SC-T1-S	92.05134	67721	< 10000.		UG/KG	8/19/92		Hexachloroethane
53-SC-T1-S	92.05134	193395	< 10000.		UG/KG	8/19/92		Indeno[1,2,3-cd]pyrene
53-SC-T1-S	92.05134	78591	< 10000.		UG/KG	8/19/92		Isophorone
53-SC-T1-S	92.05134	534521	< 10000.		UG/KG	8/19/92		2-Methyl-4,6-dinitrophenol
53-SC-T1-S	92.05134	91576	< 10000.		UG/KG	8/19/92		2-Methylnaphthalene
53-SC-T1-S	92.05134	95487	< 10000.		UG/KG	8/19/92		2-Methylphenol
53-SC-T1-S	92.05134	106445	< 10000.		UG/KG	8/19/92		4-Methylphenol
53-SC-T1-S	92.05134	91203	< 10000.		UG/KG	8/19/92		Naphthalene
53-SC-T1-S	92.05134	88744	< 10000.		UG/KG	8/19/92		2-Nitroaniline
53-SC-T1-S	92.05134	99092	< 10000.		UG/KG	8/19/92		3-Nitroaniline
53-SC-T1-S	92.05134	100016	< 10000.		UG/KG	8/19/92		4-Nitroaniline
53-SC-T1-S	92.05134	98953	< 10000.		UG/KG	8/19/92		Nitrobenzene
53-SC-T1-S	92.05134	88755	< 10000.		UG/KG	8/19/92		2-Nitrophenol
53-SC-T1-S	92.05134	100027	< 10000.		UG/KG	8/19/92		4-Nitrophenol
53-SC-T1-S	92.05134	621647	< 10000.		UG/KG	8/19/92		N-Nitrosodi-n-propylamine
53-SC-T1-S	92.05134	62759	< 10000.		UG/KG	8/19/92		N-Nitrosodimethylamine
53-SC-T1-S	92.05134	86306	< 10000.		UG/KG	8/19/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-T1-S	92.05134	87865	< 10000.		UG/KG	8/19/92		Pentachlorophenol
53-SC-T1-S	92.05134	85018	< 10000.		UG/KG	8/19/92		Phenanthrene
53-SC-T1-S	92.05134	108952	< 10000.		UG/KG	8/19/92		Phenol
53-SC-T1-S	92.05134	129000	< 10000.		UG/KG	8/19/92		Pyrene
53-SC-T1-S	92.05134	120821	< 10000.		UG/KG	8/19/92		1,2,4-Trichlorobenzene
53-SC-T1-S	92.05134	95954	< 10000.		UG/KG	8/19/92		2,4,5-Trichlorophenol
53-SC-T1-S	92.05134	88062	< 10000.		UG/KG	8/19/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05134

none

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 19-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 277

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05135 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 6/01/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-U1-S	92.05135	83329	< 10000.		UG/KG	8/19/92		Acenaphthene
53-SC-U1-S	92.05135	208968	< 10000.		UG/KG	8/19/92		Acenaphthylene
53-SC-U1-S	92.05135	62533	< 10000.		UG/KG	8/19/92		Aniline
53-SC-U1-S	92.05135	120127	< 10000.		UG/KG	8/19/92		Anthracene
53-SC-U1-S	92.05135	103333	< 10000.		UG/KG	8/19/92		Azobenzene
53-SC-U1-S	92.05135	92875	< 10000.		UG/KG	8/19/92		m-Benzidine
53-SC-U1-S	92.05135	56553	< 10000.		UG/KG	8/19/92		Benzo[a]anthracene
53-SC-U1-S	92.05135	50328	< 10000.		UG/KG	8/19/92		Benzo[a]pyrene
53-SC-U1-S	92.05135	205992	< 10000.		UG/KG	8/19/92		Benzo[b]fluoranthene
53-SC-U1-S	92.05135	191242	< 10000.		UG/KG	8/19/92		Benzo[g,h,i]perylene
53-SC-U1-S	92.05135	207089	< 10000.		UG/KG	8/19/92		Benzo[k]fluoranthene
53-SC-U1-S	92.05135	65850	< 10000.		UG/KG	8/19/92		Benzoic acid
53-SC-U1-S	92.05135	100516	< 10000.		UG/KG	8/19/92		Benzyl alcohol
53-SC-U1-S	92.05135	111911	< 10000.		UG/KG	8/19/92		Bis(2-chloroethoxy)methane
53-SC-U1-S	92.05135	111444	< 10000.		UG/KG	8/19/92		Bis(2-chloroethyl)ether
53-SC-U1-S	92.05135	108601	< 10000.		UG/KG	8/19/92		Bis(2-chloroisopropyl)ether
53-SC-U1-S	92.05135	117817	< 10000.		UG/KG	8/19/92		Bis(2-ethylhexyl)phthalate
53-SC-U1-S	92.05135	101553	< 10000.		UG/KG	8/19/92		4-Bromophenylphenyl ether
53-SC-U1-S	92.05135	85687	< 10000.		UG/KG	8/19/92		Butyl benzyl phthalate
53-SC-U1-S	92.05135	59507	< 10000.		UG/KG	8/19/92		4-Chloro-3-methylphenol
53-SC-U1-S	92.05135	106478	< 10000.		UG/KG	8/19/92		4-Chloroaniline
53-SC-U1-S	92.05135	91587	< 10000.		UG/KG	8/19/92		2-Chloronaphthalene
53-SC-U1-S	92.05135	95578	< 10000.		UG/KG	8/19/92		o-Chlorophenol
53-SC-U1-S	92.05135	7005723	< 10000.		UG/KG	8/19/92		4-Chlorophenylphenyl ether
53-SC-U1-S	92.05135	218019	< 10000.		UG/KG	8/19/92		Chrysene
53-SC-U1-S	92.05135	84742	< 10000.		UG/KG	8/19/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-U1-S	92.05135	117840	< 10000.		UG/KG	8/19/92		Di-n-octyl phthalate
53-SC-U1-S	92.05135	53703	< 10000.		UG/KG	8/19/92		Dibenzo[a,h]anthracene
53-SC-U1-S	92.05135	132649	< 10000.		UG/KG	8/19/92		Dibenzofuran
53-SC-U1-S	92.05135	95501	< 10000.		UG/KG	8/19/92		o-Dichlorobenzene (1,2)
53-SC-U1-S	92.05135	541731	< 10000.		UG/KG	8/19/92		m-Dichlorobenzene (1,3)
53-SC-U1-S	92.05135	106467	< 10000.		UG/KG	8/19/92		p-Dichlorobenzene (1,4)
53-SC-U1-S	92.05135	91941	< 10000.		UG/KG	8/19/92		3,3'-Dichlorobenzidine
53-SC-U1-S	92.05135	120832	< 10000.		UG/KG	8/19/92		2,4-Dichlorophenol
53-SC-U1-S	92.05135	84662	< 10000.		UG/KG	8/19/92		Diethyl phthalate
53-SC-U1-S	92.05135	131113	< 10000.		UG/KG	8/19/92		Dimethyl phthalate
53-SC-U1-S	92.05135	105679	< 10000.		UG/KG	8/19/92		2,4-Dimethylphenol
53-SC-U1-S	92.05135	51285	< 10000.		UG/KG	8/19/92		2,4-Dinitrophenol
53-SC-U1-S	92.05135	121142	< 10000.		UG/KG	8/19/92		2,4-Dinitrotoluene
53-SC-U1-S	92.05135	606202	< 10000.		UG/KG	8/19/92		2,6-Dinitrotoluene
53-SC-U1-S	92.05135	206440	< 10000.		UG/KG	8/19/92		Fluoranthene
53-SC-U1-S	92.05135	86737	< 10000.		UG/KG	8/19/92		Fluorene
53-SC-U1-S	92.05135	118741	< 10000.		UG/KG	8/19/92		Hexachlorobenzene
53-SC-U1-S	92.05135	87683	< 10000.		UG/KG	8/19/92		Hexachlorobutadiene
53-SC-U1-S	92.05135	77474	< 10000.		UG/KG	8/19/92		Hexachlorocyclopentadiene
53-SC-U1-S	92.05135	67721	< 10000.		UG/KG	8/19/92		Hexachloroethane
53-SC-U1-S	92.05135	193395	< 10000.		UG/KG	8/19/92		Indeno[1,2,3-cd]pyrene
53-SC-U1-S	92.05135	78591	< 10000.		UG/KG	8/19/92		Isophorone
53-SC-U1-S	92.05135	534521	< 10000.		UG/KG	8/19/92		2-Methyl-4,6-dinitrophenol
53-SC-U1-S	92.05135	91576	< 10000.		UG/KG	8/19/92		2-Methylnaphthalene
53-SC-U1-S	92.05135	95487	< 10000.		UG/KG	8/19/92		2-Methylphenol
53-SC-U1-S	92.05135	106445	< 10000.		UG/KG	8/19/92		4-Methylphenol
53-SC-U1-S	92.05135	91203	< 10000.		UG/KG	8/19/92		Naphthalene
53-SC-U1-S	92.05135	88744	< 10000.		UG/KG	8/19/92		2-Nitroaniline
53-SC-U1-S	92.05135	99092	< 10000.		UG/KG	8/19/92		3-Nitroaniline
53-SC-U1-S	92.05135	100016	< 10000.		UG/KG	8/19/92		4-Nitroaniline
53-SC-U1-S	92.05135	98953	< 10000.		UG/KG	8/19/92		Nitrobenzene
53-SC-U1-S	92.05135	88755	< 10000.		UG/KG	8/19/92		2-Nitrophenol
53-SC-U1-S	92.05135	100027	< 10000.		UG/KG	8/19/92		4-Nitrophenol
53-SC-U1-S	92.05135	621647	< 10000.		UG/KG	8/19/92		N-Nitrosodi-n-propylamine
53-SC-U1-S	92.05135	62759	< 10000.		UG/KG	8/19/92		N-Nitrosodimethylamine
53-SC-U1-S	92.05135	86306	< 10000.		UG/KG	8/19/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-U1-S	92.05135	87865	< 10000.		UG/KG	8/19/92		Pentachlorophenol
53-SC-U1-S	92.05135	85018	< 10000.		UG/KG	8/19/92		Phenanthrene
53-SC-U1-S	92.05135	108952	< 10000.		UG/KG	8/19/92		Phenol
53-SC-U1-S	92.05135	129000	< 10000.		UG/KG	8/19/92		Pyrene
53-SC-U1-S	92.05135	120821	< 10000.		UG/KG	8/19/92		1,2,4-Trichlorobenzene
53-SC-U1-S	92.05135	95954	< 10000.		UG/KG	8/19/92		2,4,5-Trichlorophenol
53-SC-U1-S	92.05135	88062	< 10000.		UG/KG	8/19/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05135

none

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 19-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 277

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.05136 Date Collected: 4/15/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 6/01/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-CBS-S	92.05136	83329	< 1000.		UG/KG	8/19/92		Acenaphthene
53-SC-CBS-S	92.05136	208968	< 1000.		UG/KG	8/19/92		Acenaphthylene
53-SC-CBS-S	92.05136	62533	< 1000.		UG/KG	8/19/92		Aniline
53-SC-CBS-S	92.05136	120127	< 1000.		UG/KG	8/19/92		Anthracene
53-SC-CBS-S	92.05136	103333	< 1000.		UG/KG	8/19/92		Azobenzene
53-SC-CBS-S	92.05136	92875	< 1000.		UG/KG	8/19/92		m-Benzidine
53-SC-CBS-S	92.05136	56553	< 1000.		UG/KG	8/19/92		Benzo[a]anthracene
53-SC-CBS-S	92.05136	50328	< 1000.		UG/KG	8/19/92		Benzo[a]pyrene
53-SC-CBS-S	92.05136	205992	< 1000.		UG/KG	8/19/92		Benzo[b]fluoranthene
53-SC-CBS-S	92.05136	191242	< 1000.		UG/KG	8/19/92		Benzo[g,h,i]perylene
53-SC-CBS-S	92.05136	207089	< 1000.		UG/KG	8/19/92		Benzo[k]fluoranthene
53-SC-CBS-S	92.05136	65850	< 1000.		UG/KG	8/19/92		Benzoic acid
53-SC-CBS-S	92.05136	100516	< 1000.		UG/KG	8/19/92		Benzyl alcohol
53-SC-CBS-S	92.05136	111911	< 1000.		UG/KG	8/19/92		Bis(2-chloroethoxy)methane
53-SC-CBS-S	92.05136	111444	< 1000.		UG/KG	8/19/92		Bis(2-chloroethyl)ether
53-SC-CBS-S	92.05136	108601	< 1000.		UG/KG	8/19/92		Bis(2-chloroisopropyl)ether
53-SC-CBS-S	92.05136	117817	< 1000.		UG/KG	8/19/92		Bis(2-ethylhexyl)phthalate
53-SC-CBS-S	92.05136	101553	< 1000.		UG/KG	8/19/92		4-Bromophenylphenyl ether
53-SC-CBS-S	92.05136	85687	< 1000.		UG/KG	8/19/92		Butyl benzyl phthalate
53-SC-CBS-S	92.05136	59507	< 1000.		UG/KG	8/19/92		4-Chloro-3-methylphenol
53-SC-CBS-S	92.05136	106478	< 1000.		UG/KG	8/19/92		4-Chloroaniline
53-SC-CBS-S	92.05136	91587	< 1000.		UG/KG	8/19/92		2-Chloronaphthalene
53-SC-CBS-S	92.05136	95578	< 1000.		UG/KG	8/19/92		o-Chlorophenol
53-SC-CBS-S	92.05136	7005723	< 1000.		UG/KG	8/19/92		4-Chlorophenylphenyl ether
53-SC-CBS-S	92.05136	218019	< 1000.		UG/KG	8/19/92		Chrysene
53-SC-CBS-S	92.05136	84742	< 1000.		UG/KG	8/19/92		Di-n-butyl phthalate

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-CBS-S	92.05136	117840	< 1000.		UG/KG	8/19/92		Di-n-octyl phthalate
53-SC-CBS-S	92.05136	53703	< 1000.		UG/KG	8/19/92		Dibenzo[a,h]anthracene
53-SC-CBS-S	92.05136	132649	< 1000.		UG/KG	8/19/92		Dibenzofuran
53-SC-CBS-S	92.05136	95501	< 1000.		UG/KG	8/19/92		o-Dichlorobenzene (1,2)
53-SC-CBS-S	92.05136	541731	< 1000.		UG/KG	8/19/92		m-Dichlorobenzene (1,3)
53-SC-CBS-S	92.05136	106467	< 1000.		UG/KG	8/19/92		p-Dichlorobenzene (1,4)
53-SC-CBS-S	92.05136	91941	< 1000.		UG/KG	8/19/92		3,3'-Dichlorobenzidine
53-SC-CBS-S	92.05136	120832	< 1000.		UG/KG	8/19/92		2,4-Dichlorophenol
53-SC-CBS-S	92.05136	84662	< 1000.		UG/KG	8/19/92		Diethyl phthalate
53-SC-CBS-S	92.05136	131113	< 1000.		UG/KG	8/19/92		Dimethyl phthalate
53-SC-CBS-S	92.05136	105679	< 1000.		UG/KG	8/19/92		2,4-Dimethylphenol
53-SC-CBS-S	92.05136	51285	< 1000.		UG/KG	8/19/92		2,4-Dinitrophenol
53-SC-CBS-S	92.05136	121142	< 1000.		UG/KG	8/19/92		2,4-Dinitrotoluene
53-SC-CBS-S	92.05136	606202	< 1000.		UG/KG	8/19/92		2,6-Dinitrotoluene
53-SC-CBS-S	92.05136	206440	< 1000.		UG/KG	8/19/92		Fluoranthene
53-SC-CBS-S	92.05136	86737	< 1000.		UG/KG	8/19/92		Fluorene
53-SC-CBS-S	92.05136	118741	< 1000.		UG/KG	8/19/92		Hexachlorobenzene
53-SC-CBS-S	92.05136	87683	< 1000.		UG/KG	8/19/92		Hexachlorobutadiene
53-SC-CBS-S	92.05136	77474	< 1000.		UG/KG	8/19/92		Hexachlorocyclopentadiene
53-SC-CBS-S	92.05136	67721	< 1000.		UG/KG	8/19/92		Hexachloroethane
53-SC-CBS-S	92.05136	193395	< 1000.		UG/KG	8/19/92		Indeno[1,2,3-cd]pyrene
53-SC-CBS-S	92.05136	78591	< 1000.		UG/KG	8/19/92		Isophorone
53-SC-CBS-S	92.05136	534521	< 1000.		UG/KG	8/19/92		2-Methyl-4,6-dinitrophenol
53-SC-CBS-S	92.05136	91576	< 1000.		UG/KG	8/19/92		2-Methylnaphthalene
53-SC-CBS-S	92.05136	95487	< 1000.		UG/KG	8/19/92		2-Methylphenol
53-SC-CBS-S	92.05136	106445	< 1000.		UG/KG	8/19/92		4-Methylphenol
53-SC-CBS-S	92.05136	91203	< 1000.		UG/KG	8/19/92		Naphthalene
53-SC-CBS-S	92.05136	88744	< 1000.		UG/KG	8/19/92		2-Nitroaniline
53-SC-CBS-S	92.05136	99092	< 1000.		UG/KG	8/19/92		3-Nitroaniline
53-SC-CBS-S	92.05136	100016	< 1000.		UG/KG	8/19/92		4-Nitroaniline
53-SC-CBS-S	92.05136	98953	< 1000.		UG/KG	8/19/92		Nitrobenzene
53-SC-CBS-S	92.05136	88755	< 1000.		UG/KG	8/19/92		2-Nitrophenol
53-SC-CBS-S	92.05136	100027	< 1000.		UG/KG	8/19/92		4-Nitrophenol
53-SC-CBS-S	92.05136	621647	< 1000.		UG/KG	8/19/92		N-Nitrosodi-n-propylamine
53-SC-CBS-S	92.05136	62759	< 1000.		UG/KG	8/19/92		N-Nitrosodimethylamine
53-SC-CBS-S	92.05136	86306	< 1000.		UG/KG	8/19/92		N-Nitrosodiphenylamine

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
53-SC-CBS-S	92.05136	87865	< 1000.		UG/KG	8/19/92		Pentachlorophenol
53-SC-CBS-S	92.05136	85018	< 1000.		UG/KG	8/19/92		Phenanthrene
53-SC-CBS-S	92.05136	108952	< 1000.		UG/KG	8/19/92		Phenol
53-SC-CBS-S	92.05136	129000	< 1000.		UG/KG	8/19/92		Pyrene
53-SC-CBS-S	92.05136	120821	< 1000.		UG/KG	8/19/92		1,2,4-Trichlorobenzene
53-SC-CBS-S	92.05136	95954	< 1000.		UG/KG	8/19/92		2,4,5-Trichlorophenol
53-SC-CBS-S	92.05136	88062	< 1000.		UG/KG	8/19/92		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 92.05136

none

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

EPA SEMIVOLATILES Prepared by: LAK on 19-Aug-1992

REQUEST NUMBER: 12783 MATRIX: C ANALYST: MATTHEW MONAGLE PROGRAM CODE: W21M NOTEBOOK: R7720 PAGE: 277

OWNER: Philip R. Fresquez GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 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 EM-9

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

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

Blank Results, Sample # 92.05375 Date Collected: 4/16/92 Date Received: 4/16/92 Date Extracted: 4/27/92 Date Analyzed: 5/23/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	92.05375	83329	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Acenaphthene
00.20227	92.05375	208968	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Acenaphthylene
00.20227	92.05375	62533	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Aniline
00.20227	92.05375	120127	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Anthracene
00.20227	92.05375	103333	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Azobenzene
00.20227	92.05375	92875	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	m-Benzidine
00.20227	92.05375	56553	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Benzo[a]anthracene
00.20227	92.05375	50328	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Benzo[a]pyrene
00.20227	92.05375	205992	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Benzo[b]fluoranthene
00.20227	92.05375	191242	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Benzo[g,h,i]perylene
00.20227	92.05375	207089	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Benzo[k]fluoranthene
00.20227	92.05375	65850	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Benzoic acid
00.20227	92.05375	100516	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Benzyl alcohol
00.20227	92.05375	111911	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Bis(2-chloroethoxy)methane
00.20227	92.05375	111444	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Bis(2-chloroethyl)ether
00.20227	92.05375	108601	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Bis(2-chloroisopropyl)ether
00.20227	92.05375	117817	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Bis(2-ethylhexyl)phthalate
00.20227	92.05375	101553	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	4-Bromophenylphenyl ether
00.20227	92.05375	85687	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Butyl benzyl phthalate
00.20227	92.05375	59507	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	4-Chloro-3-methylphenol
00.20227	92.05375	106478	< 330.		UG/KG	0.0		8/19/92	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	92.05375	91587	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2-Chloronaphthalene
00.20227	92.05375	95578	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	o-Chlorophenol
00.20227	92.05375	7005723	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	4-Chlorophenylphenyl ether
00.20227	92.05375	218019	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Chrysene
00.20227	92.05375	84742	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Di-n-butyl phthalate
00.20227	92.05375	117840	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Di-n-octyl phthalate
00.20227	92.05375	53703	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Dibenzo[a,h]anthracene
00.20227	92.05375	132649	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Dibenzofuran
00.20227	92.05375	95501	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.20227	92.05375	541731	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.20227	92.05375	106467	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.20227	92.05375	91941	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	3,3'-Dichlorobenzidine
00.20227	92.05375	120832	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2,4-Dichlorophenol
00.20227	92.05375	84662	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Diethyl phthalate
00.20227	92.05375	131113	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Dimethyl phthalate
00.20227	92.05375	105679	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2,4-Dimethylphenol
00.20227	92.05375	51285	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2,4-Dinitrophenol
00.20227	92.05375	121142	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2,4-Dinitrotoluene
00.20227	92.05375	606202	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2,6-Dinitrotoluene
00.20227	92.05375	206440	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Fluoranthene
00.20227	92.05375	86737	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Fluorene
00.20227	92.05375	118741	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Hexachlorobenzene
00.20227	92.05375	87683	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Hexachlorobutadiene
00.20227	92.05375	77474	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Hexachlorocyclopentadiene
00.20227	92.05375	67721	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Hexachloroethane
00.20227	92.05375	193395	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Indeno[1,2,3-cd]pyrene
00.20227	92.05375	78591	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Isophorone
00.20227	92.05375	534521	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2-Methyl-4,6-dinitrophenol
00.20227	92.05375	91576	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2-Methylnaphthalene
00.20227	92.05375	95487	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2-Methylphenol
00.20227	92.05375	106445	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	4-Methylphenol
00.20227	92.05375	91203	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Naphthalene
00.20227	92.05375	88744	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2-Nitroaniline
00.20227	92.05375	99092	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	3-Nitroaniline
00.20227	92.05375	100016	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	4-Nitroaniline
00.20227	92.05375	98953	< 330.		UG/KG	0.0		8/19/92	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	92.05375	88755	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2-Nitrophenol
00.20227	92.05375	100027	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	4-Nitrophenol
00.20227	92.05375	621647	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	N-Nitrosodi-n-propylamine
00.20227	92.05375	62759	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	N-Nitrosodimethylamine
00.20227	92.05375	86306	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	N-Nitrosodiphenylamine
00.20227	92.05375	87865	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Pentachlorophenol
00.20227	92.05375	85018	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Phenanthrene
00.20227	92.05375	108952	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Phenol
00.20227	92.05375	129000	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Pyrene
00.20227	92.05375	120821	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	1,2,4-Trichlorobenzene
00.20227	92.05375	95954	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2,4,5-Trichlorophenol
00.20227	92.05375	88062	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2,4,6-Trichlorophenol

Blank Results, Sample # 92.05376 Date Collected: 4/16/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 5/23/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.20227	92.05376	83329	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Acenaphthene
00.20227	92.05376	208968	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Acenaphthylene
00.20227	92.05376	62533	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Aniline
00.20227	92.05376	120127	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Anthracene
00.20227	92.05376	103333	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Azobenzene
00.20227	92.05376	92875	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	m-Benzidine
00.20227	92.05376	56553	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Benzo[a]anthracene
00.20227	92.05376	50328	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Benzo[a]pyrene
00.20227	92.05376	205992	< 330.		UG/KG	0.0		8/19/92	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	92.05376	191242	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Benzo[g,h,i]perylene
00.20227	92.05376	207089	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Benzo[k]fluoranthene
00.20227	92.05376	65850	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Benzoic acid
00.20227	92.05376	100516	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Benzyl alcohol
00.20227	92.05376	111911	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Bis(2-chloroethoxy)methane
00.20227	92.05376	111444	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Bis(2-chloroethyl)ether
00.20227	92.05376	108601	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Bis(2-chloroisopropyl)ether
00.20227	92.05376	117817	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Bis(2-ethylhexyl)phthalate
00.20227	92.05376	101553	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	4-Bromophenylphenyl ether
00.20227	92.05376	85687	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Butyl benzyl phthalate
00.20227	92.05376	59507	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	4-Chloro-3-methylphenol
00.20227	92.05376	106478	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	4-Chloroaniline
00.20227	92.05376	91587	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2-Chloronaphthalene
00.20227	92.05376	95578	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	o-Chlorophenol
00.20227	92.05376	7005723	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	4-Chlorophenylphenyl ether
00.20227	92.05376	218019	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Chrysene
00.20227	92.05376	84742	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Di-n-butyl phthalate
00.20227	92.05376	117840	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Di-n-octyl phthalate
00.20227	92.05376	53703	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Dibenzo[a,h]anthracene
00.20227	92.05376	132649	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Dibenzofuran
00.20227	92.05376	95501	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.20227	92.05376	541731	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.20227	92.05376	106467	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.20227	92.05376	91941	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	3,3'-Dichlorobenzidine
00.20227	92.05376	120832	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2,4-Dichlorophenol
00.20227	92.05376	84662	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Diethyl phthalate
00.20227	92.05376	131113	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Dimethyl phthalate
00.20227	92.05376	105679	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2,4-Dimethylphenol
00.20227	92.05376	51285	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2,4-Dinitrophenol
00.20227	92.05376	121142	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2,4-Dinitrotoluene
00.20227	92.05376	606202	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2,6-Dinitrotoluene
00.20227	92.05376	206440	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Fluoranthene
00.20227	92.05376	86737	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Fluorene
00.20227	92.05376	118741	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Hexachlorobenzene
00.20227	92.05376	87683	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Hexachlorobutadiene
00.20227	92.05376	77474	< 330.		UG/KG	0.0		8/19/92	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	92.05376	67721	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Hexachloroethane
00.20227	92.05376	193395	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Indeno[1,2,3-cd]pyrene
00.20227	92.05376	78591	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Isophorone
00.20227	92.05376	534521	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2-Methyl-4,6-dinitrophenol
00.20227	92.05376	91576	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2-Methylnaphthalene
00.20227	92.05376	95487	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2-Methylphenol
00.20227	92.05376	106445	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	4-Methylphenol
00.20227	92.05376	91203	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Naphthalene
00.20227	92.05376	88744	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2-Nitroaniline
00.20227	92.05376	99092	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	3-Nitroaniline
00.20227	92.05376	100016	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	4-Nitroaniline
00.20227	92.05376	98953	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Nitrobenzene
00.20227	92.05376	88755	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2-Nitrophenol
00.20227	92.05376	100027	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	4-Nitrophenol
00.20227	92.05376	621647	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	N-Nitrosodi-n-propylamine
00.20227	92.05376	62759	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	N-Nitrosodimethylamine
00.20227	92.05376	86306	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	N-Nitrosodiphenylamine
00.20227	92.05376	87865	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Pentachlorophenol
00.20227	92.05376	85018	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Phenanthrene
00.20227	92.05376	108952	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Phenol
00.20227	92.05376	129000	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	Pyrene
00.20227	92.05376	120821	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	1,2,4-Trichlorobenzene
00.20227	92.05376	95954	< 330.		UG/KG	0.0		8/19/92	UNDER CONTROL	2,4,5-Trichlorophenol
00.20227	92.05376	88062	< 330.		UG/KG	0.0		8/19/92	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 # 92.05373 Date Collected: 4/16/92 Date Received: 4/16/92 Date Extracted: 4/27/92 Date Analyzed: 5/23/92

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
92.05373	83329	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Acenaphthene
92.05373	208968	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Acenaphthylene
92.05373	62533	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Aniline
92.05373	120127	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Anthracene
92.05373	103333	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Azobenzene
92.05373	92875	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	m-Benzidine
92.05373	56553	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Benzo[a]anthracene
92.05373	50328	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Benzo[a]pyrene
92.05373	205992	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Benzo[b]fluoranthene
92.05373	191242	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Benzo[g,h,i]perylene
92.05373	207089	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Benzo[k]fluoranthene
92.05373	65850	0.62	0.186	MG/KG	0.0		8/19/92	OUT OF CONTROL	Benzoic acid
92.05373	100516	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Benzyl alcohol
92.05373	111911	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Bis(2-chloroethoxy)methane
92.05373	111444	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Bis(2-chloroethyl)ether
92.05373	108601	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Bis(2-chloroisopropyl)ether
92.05373	117817	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Bis(2-ethylhexyl)phthalate
92.05373	101553	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	4-Bromophenylphenyl ether
92.05373	85687	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Butyl benzyl phthalate
92.05373	59507	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	4-Chloro-3-methylphenol
92.05373	106478	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	4-Chloroaniline
92.05373	91587	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	2-Chloronaphthalene
92.05373	95578	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	o-Chlorophenol
92.05373	7005723	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	4-Chlorophenylphenyl ether
92.05373	218019	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Chrysene
92.05373	84742	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Di-n-butyl phthalate

92.05373	117840	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Di-n-octyl phthalate
92.05373	53703	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Dibenzo[a,h]anthracene
92.05373	132649	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Dibenzofuran
92.05373	95501	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	o-Dichlorobenzene (1,2)
92.05373	541731	0.84	0.252	MG/KG	1.9	0.2	8/19/92	OUT OF CONTROL	m-Dichlorobenzene (1,3)
92.05373	106467	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	p-Dichlorobenzene (1,4)
92.05373	91941	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	3,3'-Dichlorobenzidine
92.05373	120832	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	2,4-Dichlorophenol
92.05373	84662	1.4	0.42	MG/KG	1.6	0.2	8/19/92	UNDER CONTROL	Diethyl phthalate
92.05373	131113	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Dimethyl phthalate
92.05373	105679	< 0.33		MG/KG	1.4	0.1	8/19/92	OUT OF CONTROL	2,4-Dimethylphenol
92.05373	51285	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	2,4-Dinitrophenol
92.05373	121142	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	2,4-Dinitrotoluene
92.05373	606202	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	2,6-Dinitrotoluene
92.05373	206440	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Fluoranthene
92.05373	86737	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Fluorene
92.05373	118741	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Hexachlorobenzene
92.05373	87683	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Hexachlorobutadiene
92.05373	77474	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Hexachlorocyclopentadiene
92.05373	67721	0.72	0.216	MG/KG	1.8	0.2	8/19/92	OUT OF CONTROL	Hexachloroethane
92.05373	193395	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Indeno[1,2,3-cd]pyrene
92.05373	78591	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Isophorone
92.05373	534521	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	2-Methyl-4,6-dinitrophenol
92.05373	91576	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	2-Methylnaphthalene
92.05373	95487	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	2-Methylphenol
92.05373	106445	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	4-Methylphenol
92.05373	91203	0.91	0.273	MG/KG	1.8	0.2	8/19/92	WARNING 2-3 SIG	Naphthalene
92.05373	88744	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	2-Nitroaniline
92.05373	99092	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	3-Nitroaniline
92.05373	100016	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	4-Nitroaniline
92.05373	98953	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Nitrobenzene
92.05373	88755	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	2-Nitrophenol
92.05373	100027	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	4-Nitrophenol
92.05373	621647	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	N-Nitrosodi-n-propylamine
92.05373	62759	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	N-Nitrosodimethylamine
92.05373	86306	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	N-Nitrosodiphenylamine
92.05373	87865	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Pentachlorophenol
92.05373	85018	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Phenanthrene
92.05373	108952	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Phenol
92.05373	129000	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Pyrene
92.05373	120821	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	1,2,4-Trichlorobenzene
92.05373	95954	1.3	0.39	MG/KG	0.0		8/19/92	OUT OF CONTROL	2,4,5-Trichlorophenol
92.05373	88062	< 0.33		MG/KG	1.8	0.2	8/19/92	OUT OF CONTROL	2,4,6-Trichlorophenol

Blind QC Results, Sample # 92.05374 Date Collected: 4/16/92 Date Received: 4/16/92 Date Extracted: 4/28/92 Date Analyzed: 5/23/92

92.05374	83329	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Acenaphthene
92.05374	208968	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Acenaphthylene
92.05374	62533	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Aniline
92.05374	120127	3.2	0.96	MG/KG	4.5	0.4	8/19/92	UNDER CONTROL	Anthracene
92.05374	103333	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Azobenzene
92.05374	92875	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	m-Benzidine
92.05374	56553	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Benzo[a]anthracene
92.05374	50328	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Benzo[a]pyrene
92.05374	205992	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Benzo[b]fluoranthene
92.05374	191242	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Benzo[g,h,i]perylene
92.05374	207089	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Benzo[k]fluoranthene
92.05374	65850	0.69	0.207	MG/KG	4.7	0.5	8/19/92	OUT OF CONTROL	Benzoic acid
92.05374	100516	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Benzyl alcohol
92.05374	111911	2.4	0.72	MG/KG	4.2	0.4	8/19/92	WARNING 2-3 SIG	Bis(2-chloroethoxy)methane
92.05374	111444	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Bis(2-chloroethyl)ether
92.05374	108601	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Bis(2-chloroisopropyl)ether
92.05374	117817	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Bis(2-ethylhexyl)phthalate
92.05374	101553	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	4-Bromophenylphenyl ether
92.05374	85687	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Butyl benzyl phthalate
92.05374	59507	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	4-Chloro-3-methylphenol
92.05374	106478	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	4-Chloroaniline
92.05374	91587	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	2-Chloronaphthalene
92.05374	95578	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	o-Chlorophenol
92.05374	7005723	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	4-Chlorophenylphenyl ether
92.05374	218019	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Chrysene
92.05374	84742	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Di-n-butyl phthalate
92.05374	117840	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Di-n-octyl phthalate
92.05374	53703	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Dibenzo[a,h]anthracene
92.05374	132649	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Dibenzofuran
92.05374	95501	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	o-Dichlorobenzene (1,2)
92.05374	541731	1.6	0.48	MG/KG	2.7	0.3	8/19/92	UNDER CONTROL	m-Dichlorobenzene (1,3)
92.05374	106467	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	p-Dichlorobenzene (1,4)
92.05374	91941	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	3,3'-Dichlorobenzidine
92.05374	120832	2.9	0.87	MG/KG	4.7	0.5	8/19/92	UNDER CONTROL	2,4-Dichlorophenol
92.05374	84662	2.	0.6	MG/KG	2.3	0.2	8/19/92	UNDER CONTROL	Diethyl phthalate
92.05374	131113	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Dimethyl phthalate
92.05374	105679	0.48	0.144	MG/KG	2.	0.2	8/19/92	OUT OF CONTROL	2,4-Dimethylphenol
92.05374	51285	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	2,4-Dinitrophenol
92.05374	121142	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	2,4-Dinitrotoluene
92.05374	606202	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	2,6-Dinitrotoluene
92.05374	206440	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Fluoranthene
92.05374	86737	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Fluorene
92.05374	118741	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Hexachlorobenzene

EPA Limits:

Water	%	21 - 100	10 - 94	35 - 114	43 - 116	10 - 123	33 - 141
Soil	%	25 - 121	24 - 113	23 - 120	30 - 115	19 - 122	18 - 137

92.05374	87683	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Hexachlorobutadiene
92.05374	77474	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Hexachlorocyclopentadiene
92.05374	67721	1.4	0.42	MG/KG	2.6	0.3	8/19/92	WARNING 2-3 SIG	Hexachloroethane
92.05374	193395	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Indeno[1,2,3-cd]pyrene
92.05374	78591	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Isophorone
92.05374	534521	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	2-Methyl-4,6-dinitrophenol
92.05374	91576	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	2-Methylnaphthalene
92.05374	95487	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	2-Methylphenol
92.05374	106445	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	4-Methylphenol
92.05374	91203	1.6	0.48	MG/KG	2.5	0.3	8/19/92	UNDER CONTROL	Naphthalene
92.05374	88744	< 0.33		MG/KG	4.3	0.4	8/19/92	OUT OF CONTROL	2-Nitroaniline
92.05374	99092	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	3-Nitroaniline
92.05374	100016	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	4-Nitroaniline
92.05374	98953	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Nitrobenzene
92.05374	88755	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	2-Nitrophenol
92.05374	100027	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	4-Nitrophenol
92.05374	621647	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	N-Nitrosodi-n-propylamine
92.05374	62759	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	N-Nitrosodimethylamine
92.05374	86306	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	N-Nitrosodiphenylamine
92.05374	87865	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Pentachlorophenol
92.05374	85018	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Phenanthrene
92.05374	108952	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Phenol
92.05374	129000	< 0.33		MG/KG	0.0		8/19/92	UNDER CONTROL	Pyrene
92.05374	120821	3.	0.9	MG/KG	5.	0.5	8/19/92	UNDER CONTROL	1,2,4-Trichlorobenzene
92.05374	95954	1.9	0.57	MG/KG	0.0		8/19/92	OUT OF CONTROL	2,4,5-Trichlorophenol
92.05374	88062	< 0.33		MG/KG	2.5	0.2	8/19/92	OUT OF 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 # =)

SAMPLE NUMBER	UNITS	Surrogate 1	Surrogate 2	Surrogate 3	Surrogate 4	Surrogate 5	Surrogate 6	COMPLETION DATE
92.05120	%	0.0	54.47	53.	64.86		83.36	19-Aug-1992
92.05120	%	0.0	42.89	40.94		0.0	79.2	19-Aug-1992
92.05120	%	43.97		0.0		95.51		19-Aug-1992
92.05120	%	26.33		0.0	57.24	85.28		19-Aug-1992
92.05120	%	25.32	38.45	35.74	51.46	86.29	81.1	19-Aug-1992
92.05121	%	44.4	53.44	51.66	65.3	80.07	83.46	19-Aug-1992
92.05122	%	39.39	51.96	54.64	69.04	89.84	84.04	19-Aug-1992
92.05123	%	42.11	51.73	55.52	70.32	84.29	77.18	19-Aug-1992
92.05124	%	33.	48.15	50.72	62.6	80.79	75.42	19-Aug-1992
92.05125	%	41.22	51.79	56.36	70.62	82.22	69.88	19-Aug-1992
92.05126	%	34.7	48.76	51.5	57.82	86.66	76.9	19-Aug-1992
92.05127	%	39.89	52.36	51.26	60.78	77.97	69.18	19-Aug-1992
92.05128	%	29.64	42.59	41.76	54.5	77.72	73.32	19-Aug-1992
92.05129	%	22.47	39.63	41.22	66.24	92.33	77.28	19-Aug-1992
92.05130	%	27.96	43.89	43.44	60.1	71.17	81.56	19-Aug-1992
92.05131	%	25.21	38.68	35.36	47.54	71.58	83.2	19-Aug-1992
92.05132	%	33.99	45.56	44.68	59.24	75.05	76.68	19-Aug-1992
92.05133	%	50.	58.8	53.4	78.2	92.2	93.2	19-Aug-1992
92.05134	%	45.8	54.5	54.4	78.8	89.3	93.4	19-Aug-1992
92.05135	%	36.3	47.6	45.2	66.2	80.2	87.6	19-Aug-1992
92.05136	%	32.17	42.57	40.78	62.68	84.89	85.48	19-Aug-1992
92.05373	%	38.19	47.05	44.24	57.78	79.04	77.36	19-Aug-1992
92.05374	%	50.4	63.	61.8	78.26	90.05	99.86	19-Aug-1992
92.05375	%	7.86	13.9	12.08	20.08	71.65	82.94	19-Aug-1992
92.05376	%	34.53	41.94	43.46	54.54	69.77	80.44	19-Aug-1992

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

REPORT NUMBER: 14942

Analyst	Reviewer	Section Leader	QA Officer
8/20/92	9/2/92	9/8/92	9/10/92
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: 1986,' LA-11114-MS, pp. 3-4.

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