EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No:

1 Sample Description (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Rinsate
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify)

2 Preservative (Enter in Column D)
1 HCl
2. HNO3
3. NaHSO4
4. H_2SO_4
5 Other (Specify)
6 Ice only
N Not preserved

3 Region No:

Sampling Co:

Sampler (Name):

Sampler Signature:

4. Type of Activity: Lead / Pre-Remedial / Remedial / Removal
SF / PRP / ST / FED / PA / SSI / LSI / RIFS / RD / RA / O&M / NPLD / CLEM / REMA / REM / OIL / UST

5. Date Shipped:

Carrier:

Airbill Number:

6. Ship To: [illegible] Blank, 20[illegible] Rouge Drive, Novi, MI 48375
ATTN: Robin Douglas

7. Date Received -- Received by: 04-30-92 SDG#: EQK13 Robin Douglas

Laboratory Contract Number: 68-D1-0087

Unit Price: $810.00

8. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type Comp / Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below): Solids	Water -- Mis Liq	Non Water -- Mis Liq
EQK 13	1	L	G	N					[illegible]	SW-2	4/29/92 1245	CLH	MERA 22	Intact			
EQK 13	1	L	G	N					[illegible]	SW-3	4/29/92 1340		MERA 23				
EQK 13	1	L	G	N					[illegible]	SD-5	4/29/92 1300		MERA 16				
EQK 13	1	L	G	N					[illegible]	SD-6	4/29/92 [illegible]		MERA 17				
EQK 13	1	L	G	N					[illegible]	SD-7	4/29/92 1018		MERA 18				
EQK 13	1	L	G	N					[illegible]	SD-8	4/29/92 1020		MERA 19				

US EPA RECORDS CENTER REGION 5
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Shipment for Case complete? (Y/N):

Page 1 of ____

Sample used for a spike and/or duplicate: EQK 13 [illegible]

Additional Sampler Signatures: [illegible]

Chain of Custody Seal Number: 157439, 157440

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	[illegible]	[illegible]	[illegible]	4/29/92 1642	CPE 4/29/92 ~~[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) Robin Douglas	Date / Time: 04-30-92 0845	Remarks: Is custody seal intact? (Y)/N/none: Intact	

Split Samples: ☐ Accepted (Signature) ☐ Declined

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DISTRIBUTION:
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   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.:
Sampling Co.:
Sampler (Name):
Sampler Signature:

4. Type of Activity

	Lead	Pre-Remedial	Remedial	Removal
SF			RIFS	CLEM
PRP		PA	RD	REMA
ST		SSI	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

5. Date Shipped:
Carrier:
Airbill Number:
6. Ship To: Chemical Consultants, 2395 Redhill Drive, Mesa, ME 43375
ATTN: Robert Douglas

7. Date Received -- Received by: 04-30-92 SDG# = EQK13 Robin Douglas
Laboratory Contract Number: 68-D1-0087
Unit Price: $810.00
8. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc Low Med High	C Sample Type Comp / Grab	D Preservative from Box 6	E RAS Analysis VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp No	K Sample Condition on Rec't	L High Conc. Phases (Check below) Solids	Water -- Mis Liq	Non Water -- Mis Liq
[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Intact			
[illegible]	1	1	1	1	[illegible]				[illegible]	[illegible]	[illegible] 1100	1	[illegible]	1			
[illegible]	1	1	1	1	[illegible]				[illegible]	[illegible]	[illegible] 1500		[illegible]				
[illegible]	1	1	1	1	[illegible]				[illegible]	[illegible]	[illegible] 1500		[illegible]				
EGK 30	1	L	G	1	[illegible]				[illegible]	[illegible]	[illegible] 1100		[illegible]				
[illegible]	1	1	1	N		[illegible]			[illegible]	[illegible]	[illegible] 1100		[illegible]				
[illegible]	1	1	1	N			[illegible]		[illegible]	[illegible]	[illegible] 1100		[illegible]				
[illegible]	1	1	1	1	[illegible]	[illegible]			[illegible]	[illegible]	[illegible] 1100		[illegible]				
[illegible]	1	1	1	N	[illegible]	[illegible]			[illegible]	[illegible]	[illegible] 1100		[illegible]				
[illegible]	1	1	1	N			[illegible]		[illegible]	[illegible]	[illegible] 1100	1	[illegible]	1			

Shipment for Case complete? (Y/N):
Page 1 of 2
Sample used for a spike and/or duplicate: [illegible]
Additional Sampler Signatures: [illegible]
Chain of Custody Seal Number: [illegible]

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	[illegible]	[illegible]	[illegible]	[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): Robin Douglas	Date / Time: 04-30-92 0845	Remarks: Is custody seal intact? (Y/N)/none: Intact	

Split Samples: ☐ Accepted (Signature) ☐ Declined

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(For Organic CLP Analysis)

SAS No. (if applicable)

Case No

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   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No | Sampling Co.

Sampler (Name)

Sampler Signature

4. Type of Activity: Lead / Pre-Remedial / Remedial / Removal
SF / PRP / ST / FED / PA / SSI / LSI / RIFS / RD / RA / O&M / NPLD / CLEM / REMA / REM / OIL / UST

5. Date Shipped | Carrier

Airbill Number

6. Ship To
[illegible]
[illegible]
[illegible] MI 48575
ATTN: [illegible]

7. Date Received -- Received by
04-30-92
SDG#: EQK13
Robin Douglas

Laboratory Contract Number: 68-D1-0087

Unit Price: $810.00

8. Transfer to

Date Received

Received by

Contract Number

Price

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type Comp / Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc Phases (Check below): Solids	Water -- Mis Liq	Non Water -- Mis Liq
[illegible]	1	L	G	1	[illegible]				[illegible]	SW-2	4/29/92 1205	CLA	MERA[illegible]	Intact			
[illegible]				1	[illegible]				[illegible]	[illegible]-1	4/29/92 1210		MERA33	M			
[illegible]				N		[illegible]			[illegible]	[illegible]-1	4/29/92 1210		MERA33	M			
[illegible]				N			[illegible]		[illegible]	[illegible]-1	4/29/92 1210		MERA33	M			
[illegible]				1					[illegible]	[illegible]-1	4/29/92 900			M			

* SDG - Final Sample, RD 04-30-92

Shipment for Case complete? (Y/N)

Page 1 of 1

Sample used for a spike and/or duplicate: EQK[illegible]

Additional Sampler Signatures: [illegible]

Chain of Custody Seal Number: [illegible]

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	[illegible]	[illegible]	[illegible]	[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) Robin Douglas	Date / Time 04-30-92 0845	Remarks Is custody seal intact? Y/N/none Intact	

Split Samples ☐ Accepted (Signature) ☐ Declined

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Organic Traffic Report & Chain of Custody Record

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SAS No. (if applicable)

Case No.

1. Sample Description (Enter in Column A)
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4. Rinsate
5. Soil/Sediment
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7. Waste (High only)
8. Other (Specify)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H_2SO_4
5. Other (Specify)
6. Ice only
N. Not preserved

3. Region No.: 5

Sampling Co.:

5. Date Shipped:

Carrier:

7. Date Received -- Received by: 04-30-92 SDG#= EQK13 Robin Douglas

Sampler (Name): C. Hirschman

Airbill Number: [illegible]

Laboratory Contract Number: 68-D1-0087

Unit Price: $810.00

Sampler Signature: [illegible]

6. Ship To: Clayton Env. Consultants, 22345 Roethel Drive, Novi, MI 48375
ATTN: Robin Douglas

8. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

4. Type of Activity: Lead: SF, PRP, ST, FED; Pre-Remedial: PA, SSI, LSI; Remedial: RIFS, RD, RA, O&M, NPLD; Removal: CLEM, REMA, REM, OIL, UST

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below): Solids	Water -- Mis Liq	Non Water -- Mis Liq.
EQK32	1	L	G	N		X			5-046623, 5-046624	SW-2	4/29/92 1245	CLH	MERA32	Intact			
EQK32	↓	↓	↓	↓			X		5-046625, 5-046626	SW-2	4/29/92 1245	↓	MERA32	↓			
EQK16	5	L	G	N	X				5-046561, 5-046562	SD-5	4/29/92 1300	↓	MERA16	↓			
EQK17	↓	↓	↓	↓	X				5-046565, 5-046566	SD-6	4/29/92 1230	↓	MERA17	↓			
EQK18	↓	↓	↓	↓	X				5-046569, 5-046570	SD-7	4/29/92 1045	↓	MERA18	↓			
EQK19	↓	↓	↓	↓	X				5-046573, 5-046574	SD-8	4/29/92 1030	↓	MERA19	↓			

Shipment for Case complete? (Y/N) Y

Page 1 of ____

Sample used for a spike and/or duplicate: EQK32, EQK14

Additional Sampler Signatures: [illegible]

Chain of Custody Seal Number: 157439, 157440

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	4/29/92 1640	Christopher P. Coppel	Christopher P. Coppel	4/29/92 1642	CPC 4/29/92 ~~157439, 157440~~

Received for Laboratory by: (Signature) Robin Douglas

Date / Time: 04-30-92 0845

Remarks: Is custody seal intact? Y/N/none — Intact

Split Samples: ☐ Accepted (Signature) ☐ Declined

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4. Rinsate
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7. ~~Waste (High only)~~
8. Other (Specify)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H_2SO_4
5. Other (Specify)
6. Ice only
N. Not preserved

3. Region No.

Sampling Co.

5. Date Shipped

Carrier

7. Date Received -- Received by
04-30-92
SDG# = EQK13
Robin Douglas

Sampler (Name): C. H[illegible]

Airbill Number: [illegible]

Laboratory Contract Number: 68-D1-0087

Unit Price: $810.00

Sampler Signature: [illegible]

6. Ship To
Clayton Env. Consultants
22345 Roethel Drive
Novi, MI 48375
ATTN: Robin Douglas

8. Transfer to

Date Received

Received by

Contract Number

Price

4. Type of Activity

Lead		Pre-Remedial		Remedial		Removal	
SF	X			RIFS		CLEM	
PRP		PA		RD		REMA	
ST		SSI	X	RA		REM	
FED		LSI		O&M		OIL	
				NPLD		UST	

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below) Solids	Water -- Mis Liq	Non Water -- Mis Liq
~~EQK12~~	~~5~~	~~L~~	~~G~~	~~N~~	~~X~~				~~5-046545, 5-046546~~	~~SD-1~~	~~4/29/92~~	~~CLH~~	~~MERA12~~	Intact			
EQK13	↓	↓	↓	↓	X				5-046549, 5-046550	SD-2	4/29/92 1530	↓	MERA13	↓			
EQK14	↓	↓	↓	↓	X				5-046553, 5-046554	SD-3	4/29/92 1550	↓	MERA14	↓			
EQK15	↓	↓	↓	↓	X				5-046557, 5-046556	SD-4	4/29/92 1500	↓	MERA15	↓			
EQK30	1	L	G	1	X				5-046605, 5-046606	SW-1	4/29/92 1100	↓	MERA30	↓			
EQK30	↓	↓	↓	N		X			5-046607	SW-1	4/29/92 1100	↓	MERA30	↓			
EQK30	↓	↓	↓	N			X		5-046608	SW-1	4/29/92 1100	↓	MERA30	↓			
EQK31	↓	↓	↓	1	X				5-046611, 5-046612	SW-1D	4/29/92 1100	↓	MERA31	↓			
EQK31	↓	↓	↓	N	~~X~~	X			5-046613	SW-1D	4/29/92 1100	↓	MERA31	↓			
EQK31	↓	↓	↓	N			X		5-046614	SW-1D	4/29/92 1100	↓	MERA31	↓			

Shipment for Case complete? (Y/N) Y

Page 1 of 2

Sample used for a spike and/or duplicate: EQK32, EQK14

Additional Sampler Signatures: [illegible]

Chain of Custody Seal Number: 157441, 157442

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	4/29/92 1650	Christopher L. Cappel	Christopher L. Cappel	4/29/92 1651	

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none
		Robin Douglas	04-30-92 0845		Intact

Split Samples ☐ Accepted (Signature)
☐ Declined

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7. Waste (High only)
8. Other (Specify)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H_2SO_4
5. Other (Specify)
6. Ice only
N. Not preserved

3. Region No.

Sampling Co.

Sampler (Name)

Sampler Signature

4. Type of Activity

	Lead	Pre-Remedial	Remedial	Removal
SF	X		RIFS	CLEM
PRP		PA	RD	REMA
ST		SSI X	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

5. Date Shipped

Carrier

Airbill Number: 2771393110

6. Ship To: Clayton Env. Consultants, 22345 Roethel Drive, Novi, MI 48375
ATTN: Robin Douglas

7. Date Received -- Received by: 04-30-92 SDG#: EQK13 Robin Douglas

Laboratory Contract Number: 68-D1-0087

Unit Price: $810.00

8. Transfer to

Date Received

Received by

Contract Number

Price

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below) Solids	Water -- Mis Liq.	Non Water -- Mis Liq
EQK32	1	L	G	1	X				5-046617-046622	SW-2	4/29/92 1245	CLH	MERA32	Intact			
EQK33	↓	↓	↓	1	X				5-046631, 5-046632	FB-1	4/29/92 1210	↓	MERA33	M			
EQK33	↓	↓	↓	N		X			5-046633	FB-1	4/29/92 1210	↓	MERA33	M			
EQK33	↓	↓	↓	N			X		5-046634	FB-1	4/29/92 1210	↓	MERA33	M			
*EQK34	↓	↓	↓	1	X				5-046637, 5-046638	TB-1	4/29/92 900	↓		M			

* SDG - Final Sample, RD 04-30-92

Shipment for Case complete? (Y/N) Y

Page 1 of 2

Sample used for a spike and/or duplicate: EQK32, EQK14

Additional Sampler Signatures: [signature]

Chain of Custody Seal Number: 157441, 157442

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	4/29/92 1650	Christopher P Cappel	Christopher P Cappel	4/29/92 1651	
		Received for Laboratory by: (Signature) Robin Douglas	Date / Time 04-30-92 0845	Remarks Is custody seal intact? Y/N/none Intact	

Split Samples ☐ Accepted (Signature) ☐ Declined

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2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	EQK30	94	94	94	0	0
02	EQK31	108	107	78	0	0
03	EQK32	107	104	84	0	0
04	EQK33	96	91	78	0	0
05	EQK34	98	103	92	0	0
06	EQK32MS	104	102	85	0	0
07	EQK32MSD	93	90	87	0	0
08	VBLKEA✓	100	94	85	0	0
09	VBLKEB✓	99	96	97	0	0

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Level:(low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	EQK13	116	104	99	0	0
02	EQK14	123	99	93	0	0
03	EQK15	118	83	83	0	0
04	EQK16	118	100	91	0	0
05	EQK17	124	99	94	0	0
06	EQK18	121	98	77	0	0
07	EQK19	122	96	91	0	0
08	EQK14MS	100	85	90	0	0
09	EQK14MSD	122	100	96	0	0
10	VBLKEA*	115	111	98	0	0
11	VBLKEB*	125	109	89	0	0

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2 (BFB)	= Bromofluorobenzene	(59-113)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3A
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix Spike - EPA Sample No.: EQK32

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.00	0	47.90	96	61-145
Trichloroethene	50.00	0	55.00	110	71-120
Benzene	50.00	0	52.30	105	76-127
Toluene	50.00	0	60.30	121	76-125
Chlorobenzene	50.00	0	53.80	108	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.00	47.60	95	1	14	61-145
Trichloroethene	50.00	55.30	111	1	14	71-120
Benzene	50.00	51.10	102	3	11	76-127
Toluene	50.00	49.20	98	21 *	13	76-125
Chlorobenzene	50.00	52.30	105	3	13	75-130

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

* Values outside of QC limits

RPD: 1 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix Spike - EPA Sample No.: EQK14 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	63.30	0	61.26	97	59-172
Trichloroethene	63.30	0	60.25	95	62-137
Benzene	63.30	0	64.05	101	66-142
Toluene	63.30	3.013	73.29	111	59-139
Chlorobenzene	63.30	0	69.87	110	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	63.30	53.80	85	13	22	59-172
Trichloroethene	63.30	62.28	98	3	24	62-137
Benzene	63.30	64.94	103	2	21	66-142
Toluene	63.30	87.34	133	18	21	59-139
Chlorobenzene	63.30	69.11	109	1	21	60-133

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKEAw

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Lab File ID: E9744 Lab Sample ID: VBLKEA

Date Analyzed: 05/05/92 Time Analyzed: 1018

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) N

Instrument ID: HP-5E

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EQK31	967190	E9746	1149
02	EQK32	967192	E9747	1228
03	EQK33	967196	E9750	1429
04	EQK32MS	967192	E9748	1309
05	EQK32MSD	967192	E9749	1349

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKEBw

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Lab File ID: E9761 Lab Sample ID: VBLKEB

Date Analyzed: 05/06/92 Time Analyzed: 0219

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) N

Instrument ID: HP-5E

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EQK30	967188	E9769	1035
02	EQK34	967198	E9767	0849

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKEA5

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Lab File ID: E9775 Lab Sample ID: VBLKEA

Date Analyzed: 05/06/92 Time Analyzed: 2039

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) Y

Instrument ID: HP-5E

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EQK13	967174	E9780	0100
02	EQK16	967180	E9777	2240

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKEBs

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Lab File ID: E9792 Lab Sample ID: VBLKEB

Date Analyzed: 05/07/92 Time Analyzed: 1321

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) Y

Instrument ID: HP-5E

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EQK14	967176	E9793	1421
02	EQK15	967178	E9796	1640
03	EQK17	967182	E9797	1724
04	EQK18	967184	E9798	1817
05	EQK19	967186	E9799	1909
06	EQK14MS	967176	E9794	1503
07	EQK14MSD	967176	E9795	1542

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKEAW

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: VBLKEA

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E9744

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/05/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	31	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKEAw

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: VBLKEA

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E9744

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/05/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKEBW

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: VBLKEB

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E9761

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/06/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKEBW

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: VBLKEB

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E9761

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/06/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKEA5

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

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

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E9775

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/06/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKEA5

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

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

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E9775

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. _____ Date Analyzed: 05/06/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKEB

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

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

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E9792

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/07/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	12	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKEB5

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

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

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E9792

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/07/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

19026·5

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK13

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) SOIL Lab Sample ID: 967174

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E9780

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 40 Date Analyzed: 05/07/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	17	U
74-83-9	Bromomethane	17	U
75-01-4	Vinyl Chloride	17	U
75-00-3	Chloroethane	17	U
75-09-2	Methylene Chloride	25	BV
67-64-1	Acetone	27	
75-15-0	Carbon Disulfide	17	U
75-35-4	1,1-Dichloroethene	17	U
75-34-3	1,1-Dichloroethane	17	U
540-59-0	1,2-Dichloroethene (total)	17	U
67-66-3	Chloroform	17	U
107-06-2	1,2-Dichloroethane	17	U
78-93-3	2-Butanone	17	U
71-55-6	1,1,1-Trichloroethane	17	U
56-23-5	Carbon Tetrachloride	17	U
75-27-4	Bromodichloromethane	17	U
78-87-5	1,2-Dichloropropane	17	U
10061-01-5	cis-1,3-Dichloropropene	17	U
79-01-6	Trichloroethene	17	U
124-48-1	Dibromochloromethane	17	U
79-00-5	1,1,2-Trichloroethane	17	U
71-43-2	Benzene	17	U
10061-02-6	trans-1,3-Dichloropropene	17	U
75-25-2	Bromoform	17	U
108-10-1	4-Methyl-2-Pentanone	17	U
591-78-6	2-Hexanone	17	U
127-18-4	Tetrachloroethene	17	U
79-34-5	1,1,2,2-Tetrachloroethane	17	U
108-88-3	Toluene	17	U
108-90-7	Chlorobenzene	17	U
100-41-4	Ethylbenzene	17	U
100-42-5	Styrene	17	U
1330-20-7	Xylene (total)	17	U

AV 6-12-92

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EQK13

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) SOIL Lab Sample ID: 967174

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E9780

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 40 Date Analyzed: 05/07/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 624920	Disulfide, dimethyl	13.39	9	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK14

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) SOIL Lab Sample ID: 967176

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E9793

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 21 Date Analyzed: 05/07/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	IU
74-83-9	Bromomethane	13	IU
75-01-4	Vinyl Chloride	13	IU
75-00-3	Chloroethane	13	IU
75-09-2	Methylene Chloride	13 ~~14~~	BJU
67-64-1	Acetone	56	BU
75-15-0	Carbon Disulfide	13	IU
75-35-4	1,1-Dichloroethene	13	IU
75-34-3	1,1-Dichloroethane	13	IU
540-59-0	1,2-Dichloroethene (total)	13	IU
67-66-3	Chloroform	13	IU
107-06-2	1,2-Dichloroethane	13	IU
78-93-3	2-Butanone	13	IU
71-55-6	1,1,1-Trichloroethane	13	IU
56-23-5	Carbon Tetrachloride	13	IU
75-27-4	Bromodichloromethane	13	IU
78-87-5	1,2-Dichloropropane	13	IU
10061-01-5	cis-1,3-Dichloropropene	13	IU
79-01-6	Trichloroethene	13	IU
124-48-1	Dibromochloromethane	13	IU
79-00-5	1,1,2-Trichloroethane	13	IU
71-43-2	Benzene	13	IU
10061-02-6	trans-1,3-Dichloropropene	13	IU
75-25-2	Bromoform	13	IU
108-10-1	4-Methyl-2-Pentanone	13	IU
591-78-6	2-Hexanone	13	IU
127-18-4	Tetrachloroethene	13	IU
79-34-5	1,1,2,2-Tetrachloroethane	13	IU
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	13	IU
100-41-4	Ethylbenzene	13	IU
100-42-5	Styrene	13	IU
1330-20-7	Xylene (total)	13	IU

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EQK14

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) SOIL Lab Sample ID: 967176

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E9793

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 21 Date Analyzed: 05/07/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK15

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) SOIL Lab Sample ID: 967178

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E9796

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 73 Date Analyzed: 05/07/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	37	IU
74-83-9	Bromomethane	37	IU
75-01-4	Vinyl Chloride	37	IU
75-00-3	Chloroethane	37	IU
75-09-2	Methylene Chloride	37 ~~52~~	IBJV
67-64-1	Acetone	37	IU
75-15-0	Carbon Disulfide	37	IU
75-35-4	1,1-Dichloroethene	37	IU
75-34-3	1,1-Dichloroethane	37	IU
540-59-0	1,2-Dichloroethene (total)	37	IU
67-66-3	Chloroform	37	IU
107-06-2	1,2-Dichloroethane	37	IU
78-93-3	2-Butanone	37	IU
71-55-6	1,1,1-Trichloroethane	37	IU
56-23-5	Carbon Tetrachloride	37	IU
75-27-4	Bromodichloromethane	37	IU
78-87-5	1,2-Dichloropropane	37	IU
10061-01-5	cis-1,3-Dichloropropene	37	IU
79-01-6	Trichloroethene	37	IU
124-48-1	Dibromochloromethane	37	IU
79-00-5	1,1,2-Trichloroethane	37	IU
71-43-2	Benzene	37	IU
10061-02-6	trans-1,3-Dichloropropene	37	IU
75-25-2	Bromoform	37	IU
108-10-1	4-Methyl-2-Pentanone	37	IU
591-78-6	2-Hexanone	37	IU
127-18-4	Tetrachloroethene	37	IU
79-34-5	1,1,2,2-Tetrachloroethane	37	IU
108-88-3	Toluene	37	IU
108-90-7	Chlorobenzene	37	IU
100-41-4	Ethylbenzene	37	IU
100-42-5	Styrene	37	IU
1330-20-7	Xylene (total)	37	IU

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EQK15

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) SOIL Lab Sample ID: 967178

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E9796

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 73 Date Analyzed: 05/07/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 75183	Methane, thiobis-	2.73	440	JN
2. 624920	Disulfide, dimethyl	13.40	320	JN
3. 3658808	Trisulfide, dimethyl	22.55	240	JN

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK16

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) SOIL Lab Sample ID: 967180

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E9777

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 72 Date Analyzed: 05/06/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	36	U
74-83-9	Bromomethane	36	U
75-01-4	Vinyl Chloride	36	U
75-00-3	Chloroethane	36	U
75-09-2	Methylene Chloride	36 ~~27~~	BJU
67-64-1	Acetone	36	U
75-15-0	Carbon Disulfide	36	U
75-35-4	1,1-Dichloroethene	36	U
75-34-3	1,1-Dichloroethane	36	U
540-59-0	1,2-Dichloroethene (total)	36	U
67-66-3	Chloroform	36	U
107-06-2	1,2-Dichloroethane	36	U
78-93-3	2-Butanone	36	U
71-55-6	1,1,1-Trichloroethane	36	U
56-23-5	Carbon Tetrachloride	36	U
75-27-4	Bromodichloromethane	36	U
78-87-5	1,2-Dichloropropane	36	U
10061-01-5	cis-1,3-Dichloropropene	36	U
79-01-6	Trichloroethene	36	U
124-48-1	Dibromochloromethane	36	U
79-00-5	1,1,2-Trichloroethane	36	U
71-43-2	Benzene	36	U
10061-02-6	trans-1,3-Dichloropropene	36	U
75-25-2	Bromoform	36	U
108-10-1	4-Methyl-2-Pentanone	36	U
591-78-6	2-Hexanone	36	U
127-18-4	Tetrachloroethene	36	U
79-34-5	1,1,2,2-Tetrachloroethane	36	U
108-88-3	Toluene	36	U
108-90-7	Chlorobenzene	36	U
100-41-4	Ethylbenzene	36	U
100-42-5	Styrene	36	U
1330-20-7	Xylene (total)	36	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EQK16

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) SOIL Lab Sample ID: 967180

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E9777

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 72 Date Analyzed: 05/06/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 75183	Methane, thiobis-	2.74	170	JN
2. 624920	Disulfide, dimethyl	13.36	130	JN
3. 3658808	Trisulfide, dimethyl	22.56	57	JN

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK17

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) SOIL Lab Sample ID: 967182

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E9797

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 40 Date Analyzed: 05/07/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	17	U
74-83-9	Bromomethane	17	U
75-01-4	Vinyl Chloride	17	U
75-00-3	Chloroethane	17	U
75-09-2	Methylene Chloride	17 ~~16~~	BJU
67-64-1	Acetone	78	BU
75-15-0	Carbon Disulfide	17	U
75-35-4	1,1-Dichloroethene	17	U
75-34-3	1,1-Dichloroethane	17	U
540-59-0	1,2-Dichloroethene (total)	17	U
67-66-3	Chloroform	17	U
107-06-2	1,2-Dichloroethane	17	U
78-93-3	2-Butanone	17	U
71-55-6	1,1,1-Trichloroethane	17	U
56-23-5	Carbon Tetrachloride	17	U
75-27-4	Bromodichloromethane	17	U
78-87-5	1,2-Dichloropropane	17	U
10061-01-5	cis-1,3-Dichloropropene	17	U
79-01-6	Trichloroethene	17	U
124-48-1	Dibromochloromethane	17	U
79-00-5	1,1,2-Trichloroethane	17	U
71-43-2	Benzene	17	U
10061-02-6	trans-1,3-Dichloropropene	17	U
75-25-2	Bromoform	17	U
108-10-1	4-Methyl-2-Pentanone	17	U
591-78-6	2-Hexanone	17	U
127-18-4	Tetrachloroethene	17	U
79-34-5	1,1,2,2-Tetrachloroethane	17	U
108-88-3	Toluene	17	U
108-90-7	Chlorobenzene	17	U
100-41-4	Ethylbenzene	17	U
100-42-5	Styrene	17	U
1330-20-7	Xylene (total)	17	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK17

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) SOIL Lab Sample ID: 967182

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E9797

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 40 Date Analyzed: 05/07/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK18

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) SOIL Lab Sample ID: 967184

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E9798

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 34 Date Analyzed: 05/07/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15	U
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	~~15~~ 12	BJ U
67-64-1	Acetone	43	B U
75-15-0	Carbon Disulfide	15	U
75-35-4	1,1-Dichloroethene	15	U
75-34-3	1,1-Dichloroethane	15	U
540-59-0	1,2-Dichloroethene (total)	15	U
67-66-3	Chloroform	15	U
107-06-2	1,2-Dichloroethane	15	U
78-93-3	2-Butanone	15	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon Tetrachloride	15	U
75-27-4	Bromodichloromethane	15	U
78-87-5	1,2-Dichloropropane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
79-01-6	Trichloroethene	15	U
124-48-1	Dibromochloromethane	15	U
79-00-5	1,1,2-Trichloroethane	15	U
71-43-2	Benzene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
75-25-2	Bromoform	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-88-3	Toluene	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
100-42-5	Styrene	15	U
1330-20-7	Xylene (total)	15	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EQK18

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) SOIL Lab Sample ID: 967184

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E9798

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 34 Date Analyzed: 05/07/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK19

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) SOIL Lab Sample ID: 967186

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E9799

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 34 Date Analyzed: 05/07/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15	U
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	~~10~~ 15	BJU
67-64-1	Acetone	46	BU
75-15-0	Carbon Disulfide	15	U
75-35-4	1,1-Dichloroethene	15	U
75-34-3	1,1-Dichloroethane	15	U
540-59-0	1,2-Dichloroethene (total)	15	U
67-66-3	Chloroform	15	U
107-06-2	1,2-Dichloroethane	15	U
78-93-3	2-Butanone	15	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon Tetrachloride	15	U
75-27-4	Bromodichloromethane	15	U
78-87-5	1,2-Dichloropropane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
79-01-6	Trichloroethene	15	U
124-48-1	Dibromochloromethane	15	U
79-00-5	1,1,2-Trichloroethane	15	U
71-43-2	Benzene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
75-25-2	Bromoform	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-88-3	Toluene	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
100-42-5	Styrene	15	U
1330-20-7	Xylene (total)	15	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK19

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) SOIL Lab Sample ID: 967186

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E9799

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. 34 Date Analyzed: 05/07/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK30

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967188

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E9769

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/06/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~1~~	BJU
67-64-1	Acetone	53	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EQK30

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967188

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E9769

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/06/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK31

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967190

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E9746

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/05/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	BJU
67-64-1	Acetone	19	B
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

AV 6-12-92

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK31

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967190

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E9746

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/05/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK32

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967192

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E9747

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/05/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	~~10~~	BJU
67-64-1	Acetone	14	BU
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

AV 6-12-92

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EQK32

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967192

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E9747

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/05/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK33

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967196

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E9750

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/05/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~8~~	BJU
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

AV 6-12-92

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK33

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967196

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E9750

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/05/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

096 RD 06-02-92
09

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK34

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967198

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E9767

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/06/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 3	BJU
67-64-1	Acetone	18	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	29	
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

AV 6-12-92

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EQK34

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967198

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E9767

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: not dec. ____ Date Analyzed: 05/06/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	EQK30	75	61	94	68	62	77	62	56	0
02	EQK31	74	58	102	55	51	77	57	53	0
03	EQK32	81	67	99	73	65	81	66	66	0
04	EQK33	65	51	102	63	60	58	58	52	0
05	EQK32MS	67	58	100	58	55	61	56	56	0
06	EQK32MSD	76	65	86	66	63	51	63	63	0
07	SBLKW1	96	63	110	65	62	58	61	60	0

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix Spike - EPA Sample No.: EQK32

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	75.00	0	43.00	57	12-110
2-Chlorophenol	75.00	0	44.40	59	27-123
1,4-Dichlorobenzene	50.00	0	26.30	53	36- 97
N-Nitroso-di-n-prop. (1)	50.00	0	31.00	62	41-116
1,2,4-Trichlorobenzene	50.00	0	27.70	55	39- 98
4-Chloro-3-methylphenol	75.00	0	48.80	65	23- 97
Acenaphthene	50.00	0	31.40	63	46-118
4-Nitrophenol	75.00	0	78.70	105 *	10- 80
2,4-Dinitrotoluene	50.00	0	42.00	84	24- 96
Pentachlorophenol	75.00	0	58.20	78	9-103
Pyrene	50.00	0	37.20	74	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	75.00	50.70	68	18	42	12-110
2-Chlorophenol	75.00	53.10	71	18	40	27-123
1,4-Dichlorobenzene	50.00	31.70	63	17	28	36- 97
N-Nitroso-di-n-prop. (1)	50.00	38.70	77	22	38	41-116
1,2,4-Trichlorobenzene	50.00	34.10	68	21	28	39- 98
4-Chloro-3-methylphenol	75.00	49.90	67	3	42	23- 97
Acenaphthene	50.00	36.00	72	13	31	46-118
4-Nitrophenol	75.00	82.10	110 *	5	50	10- 80
2,4-Dinitrotoluene	50.00	39.60	79	6	38	24- 96
Pentachlorophenol	75.00	65.20	87	11	50	9-103
Pyrene	50.00	35.20	70	6	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 2 out of 22 outside limits

COMMENTS: INST HP-6F 967205
CASE 19026 EQK32

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKW1

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Lab File ID: F7564 Lab Sample ID: 967210

Instrument ID: HP-6F Date Extracted: 05/04/92

Matrix: (soil/water) WATER Date Analyzed: 05/27/92

Level:(low/med) LOW Time Analyzed: 0838

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EQK30	967201	F7536	05/22/92
02	EQK31	967203	F7537	05/22/92
03	EQK32	967205	F7538	05/22/92
04	EQK33	967209	F7565	05/27/92
05	EQK32MS	967207	F7539	05/22/92
06	EQK32MSD	967207	F7548	05/23/92

COMMENTS: INST HP-6F 967210
CASE 19026 SBLKW1

1B 19026 • 5

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW1

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967210

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F7564

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

19026 • 5 EPA SAMPLE NO.

SBLKW1

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967210

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F7564

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

19026 • 5 EPA SAMPLE NO.

SBLKW1

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967210

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F7564

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.30	2	J
2.	Unknown	20.25	2	J

34 4/7 RD06-02-92

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK30

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967201

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F7536

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/22/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK30

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967201

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F7536

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/22/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

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1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK30

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967201

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F7536

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/22/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown ketone or ester	4.10	13	J
2.	Unknown	4.30	14	BJU
3.	Cyclohexenol	4.80	4	J
4. 108850	Cyclohexane, bromo-	9.31	2	JN
5.	Unknown	10.48	2	J

AV
6-12-92

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK31

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967203

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F7537

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/22/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK31

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967203

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F7537

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/22/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

19026 • 5 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EQK31

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967203

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F7537

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/22/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Cyclohexanol	4.74	4	J
2.	Unknown	10.48	2	J
3.	Cyclohexenol	15.55	3	J
4.	Unknown siloxane	28.51	2	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK32

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967205

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F7538

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/22/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK32

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967205

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F7538

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/22/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK32

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967205

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F7538

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/22/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.31	7	BJ V
2.	Cyclohexenol	4.79	3	J
3.	Cyclohexenone	5.64	2	J
4.	Unknown	10.48	3	J

AV
6-12-92

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK33

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967209

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F7565

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK33

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967209

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F7565

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

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EPA SAMPLE NO.

EQK33

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967209

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F7565

Level: (low/med) LOW Date Received: 04/30/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 05/04/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.29	3	BJ V
2.	Unknown	20.24	2	BJ V

AV
6-12-92

2E

WATER PESTICIDE SURROGATE RECOVERY

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

GC Column(1): DB-608 ID: 0.54(mm) GC Column(2): DB-1701 ID: 0.55(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKW1	83	86	89	92			0
02	EQK30	79	80	79	73			0
03	EQK31	101	103	100	101			0
04	EQK32	84	88	94	96			0
05	EQK33	67	69	96	96			0
06	EQK32MS	101	106	112	116			0
07	EQK32MSD	69	76	83	83			0

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix Spike - EPA Sample No.: EQK32

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	#	QC LIMITS REC.
gamma-BHC (Lindane)	0.500	0	0.913	183	*	56-123
Heptachlor	0.500	0	0.660	132	*	40-131
Aldrin	0.500	0	0.606	121	*	40-120
Dieldrin	1.000	0	1.84	184	*	52-126
Endrin	1.000	0	1.76	176	*	56-121
4,4'-DDT	1.000	0	1.74	174	*	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.500	0.538	108		52	*	50	56-123
Heptachlor	0.500	0.442	88		40	*	31	40-131
Aldrin	0.500	0.435	87		33		43	40-120
Dieldrin	1.000	1.18	118		44	*	38	52-126
Endrin	1.000	1.17	117		40		45	56-121
4,4'-DDT	1.000	1.16	116		40		50	38-127

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

* Values outside of QC limits

RPD: 3 out of 6 outside limits
Spike Recovery: 6 out of 12 outside limits

COMMENTS:

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKW1

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Lab Sample ID: 967210 Lab File ID: _____

Matrix:(soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 05/01/92

Date Analyzed (1): 05/21/92 Date Analyzed (2): 05/21/92

Time Analyzed (1): 1700 Time Analyzed (2): 1700

Instrument ID (1): D082 Instrument ID (2): D081

GC Column (1): DB-608 ID: 0.54 (mm) GC Column (2): DB-1701 ID: 0.55 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EQK30	967200	05/21/92	05/21/92
02	EQK31	967202	05/21/92	05/21/92
03	EQK32	967204	05/21/92	05/21/92
04	EQK33	967208	05/21/92	05/21/92
05	EQK32MS	967206MS	05/21/92	05/21/92
06	EQK32MSD	967206MSD	05/21/92	05/21/92

COMMENTS: BLANK EXTRACTION COMMENT

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKW1

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967210

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 04/30/92 5-3-92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/01/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/21/92

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK30

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967200

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/01/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/21/92

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK31

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967202

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/01/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/21/92

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK32

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967204

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/01/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/21/92

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK33

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967208

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/01/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/21/92

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No (if applicable):
Case No:

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6 Ice only
   N. Not preserved

3. Region No:
Sampling Co:
Sampler (Name):
Sampler Signature:

4. Type of Activity

	Lead	Pre-Remedial	Remedial	Removal
SF	X		RIFS	CLEM
PRP		PA	RD	REMA
ST		SSI X	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

5. Date Shipped:
Carrier:
Airbill Number:
6. Ship To:
ATTN:

7. Date Received -- Received by: 4-29-92 John Gruber
Laboratory Contract Number: 68-D1-0085
Unit Price: $724.00
8. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc Low Med High	C Sample Type Comp / Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No	K Sample Condition on Rec't	L High Conc. Phases (Check below): Solids	Water -- Mis Liq	Non Water -- Mis Liq.
EQK02	5	L	G	N	X				[illegible]	[illegible]	[illegible]		[illegible]				
EQK02			G	N		X	X		[illegible]	[illegible]	[illegible]		[illegible]				
EQK03			G	N	X				[illegible]	[illegible]	[illegible]		[illegible]				
EQK05			G	N	X				[illegible]	[illegible]	[illegible]		[illegible]				
EQK06			G	N	X				[illegible]	[illegible]	[illegible]		[illegible]				
EQK07			G	N	X				[illegible]	[illegible]	[illegible]		[illegible]				

Shipment for Case complete? (Y/N) Y
Page 1 of 2
Sample used for a spike and/or duplicate: EQK02
Additional Sampler Signatures:
Chain of Custody Seal Number:

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by (Signature)	Date / Time	Received by: (Signature)
[illegible]	[illegible]	[illegible]	[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: Is custody seal intact? Y/N/none	
		John Gruber	4-29-92 1140		

Split Samples: ☐ Accepted (Signature) ☐ Declined

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION:
Blue - Region Copy Pink - SMO Copy White - Lab Copy for Return to Region Yellow - Lab Copy for Return to SMO

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

Org-2

000003

SDG # EQK01

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):
Case No:

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No:
Sampling Co:
Sampler (Name):
Sampler Signature:

4. Type of Activity

	Lead	Pre-Remedial	Remedial	Removal
SF	X		RIFS	CLEM
PRP		PA	RD	REMA
ST		SSI X	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

5. Date Shipped:
Carrier:
Airbill Number:
6. Ship To:
ATTN:

7. Date Received -- Received by: 4-29-92 John Gruber
Laboratory Contract Number: 68-D1-0085
Unit Price: $724.00
8. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc Low Med High	C Sample Type Comp / Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp No.	K Sample Condition on Rec't	L High Conc. Phases (Check below): Solids	Water -- Mis Liq	Non Water -- Mis Liq
EQK01	5	L	G	N	X				[illegible]	[illegible]	[illegible]		[illegible]				
EQK01	↓	↓	C	N		X	X		[illegible]	[illegible]	[illegible]		[illegible]				
EQK04	↓	↓	G	N	X				[illegible]	[illegible]	[illegible]		[illegible]				
EQK08	↓	↓	G	N	X				[illegible]	[illegible]	[illegible]		[illegible]				
EQK08	↓	↓	C	N		X	X		[illegible]	[illegible]	[illegible]		[illegible]				
EQK09	↓	↓	G	N	X				[illegible]	[illegible]	[illegible]		[illegible]				
EQK09	↓	↓	C	N		X	X		[illegible]	[illegible]	[illegible]		[illegible]				
EQK10	↓	↓	G	N	X				[illegible]	[illegible]	[illegible]		[illegible]				
EQK11	↓	↓	G	N	X				[illegible]	[illegible]	[illegible]		[illegible]				

Shipment for Case complete? (Y/N):
Page 1 of 2
Sample used for a spike and/or duplicate: EQK01
Additional Sampler Signatures:
Chain of Custody Seal Number:

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	[illegible]	[illegible]	[illegible]	[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: Is custody seal intact? Y/N/none	
		John Gruber	4-29-92 1140		

Split Samples: ☐ Accepted (Signature) ☐ Declined

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION:
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SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

Org-2

000004

SDG # EQK01

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No (if applicable)

Case No

1. Sample Description (Enter in Column A)
   1 Surface Water
   2. Ground Water
   3 Leachate
   4 Rinsate
   5 Soil/Sediment
   6 Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3 Region No

Sampling Co

Sampler (Name)

Sampler Signature

4. Type of Activity

	Lead	Pre-Remedial	Remedial	Removal
SF	X		RIFS	CLEM
PRP		PA	RD	REMA
ST		SSI X	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

5 Date Shipped

Carrier

Airbill Number

6 Ship To

ATTN

7 Date Received -- Received by: 4-30-92 John Gruber

Laboratory Contract Number: 68-D1-0085

Unit Price: $724.00

8. Transfer to

Date Received

Received by

Contract Number

Price

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc Low Med High	C Sample Type Comp / Grab	D Preservative from Box 6	E RAS Analysis VOA	BNA	Pest/ PCB	High ARO/ TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg Samp No.	K Sample Condition on Rec't	L High Conc. Phases (Check below) Solids	Water -- Mis Liq	Non Water -- Mis Liq
EQX 26	2	L	G	1	X				5-046572-046582	MW 1	[illegible]	[illegible]	[illegible]				
EQX 26				N		X			5-046583, 5-046[illegible]	MW 1	[illegible]		[illegible]				
EQX 26				N			X		5-046585, 5-046[illegible]	MW-1	[illegible]		[illegible]				
EQX 27				1	X				5-046591, 5-046[illegible]	[illegible]	[illegible]		[illegible]				
EQX 27				N		X			5-046593, 5-046[illegible]	[illegible]	[illegible]		[illegible]				
EQX [illegible]				N			X		5-046594	[illegible]	[illegible]		[illegible]				
EQX 28				1	X				5-046[illegible]	[illegible]	[illegible]		[illegible]				
EQX 28				N		X			5-046599	[illegible]	[illegible]		[illegible]				
EQX 28				N			X		5-046[illegible]	[illegible]	[illegible]		[illegible]				
EQX 29				1	X				5-046603, [illegible]	[illegible]	[illegible]			SDG - FINAL SAMPLE			

Shipment for Case complete? (Y/N) Y

Page 1 of 1

Sample used for a spike and/or duplicate: EQX26

Additional Sampler Signatures

Chain of Custody Seal Number

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	4/29/92 1315	Christopher P. Cooper	[illegible]	[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) John Gruber	Date / Time 4-30-92 1000	Remarks Is custody seal intact? Y/N/none	

Split Samples ☐ Accepted (Signature) ☐ Declined

EPA Form 9110-2 (Rev 5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION:
Blue - Region Copy Pink - SMO Copy White - Lab Copy for Return to Region Yellow - Lab Copy for Return to SMO

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

Org-2

000005

SDG # EQK01

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	EQK26	102	92	92		0
02	EQK26MS	96	86	96		0
03	EQK26MSD	96	86	96		0
04	EQK27	98	92	92		0
05	EQK28	100	90	92		0
06	EQK29	98	90	92		0
07	VBLK2	102	94	94		0
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		QC LIMITS
SMC1 (TOL)	= Toluene-dS	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

= Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Level:(low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	EQK01	116	72	91		0
02	EQK02	112	79	96		0
03	EQK02MS	118	75	104		0
04	EQK02MSD	117	78	112		0
05	EQK03	115	72	92		0
06	EQK04	104	83	94		0
07	EQK05	104	81	91		0
08	EQK06	113	87	108		0
09	EQK07	106	83	95		0
10	EQK08	103	86	97		0
11	EQK09	103	84	97		0
12	EQK10	103	82	98		0
13	EQK11	101	83	94		0
14	VBLK3	102	90	100		0
15	VBLK4	108	92	116		0
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		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2 (BFB)	= Bromofluorobenzene	(59-113)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

000007

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix Spike - EPA Sample No.: EQK26

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1.1-Dichloroethene	50.	0.	48.	96	61-145
Trichloroethene	50.	0.	54.	108	71-120
Benzene	50.	0.	52.	104	76-127
Toluene	50.	0.	52.	104	76-125
Chlorobenzene	50.	0.	53.	106	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1.1-Dichloroethene	50.	47.	94	2	14	61-145
Trichloroethene	50.	53.	106	2	14	71-120
Benzene	50.	49.	98	6	11	76-127
Toluene	50.	49.	98	6	13	76-125
Chlorobenzene	50.	50.	100	6	13	75-130

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix Spike - EPA Sample No.: EQK02 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	62.	0.	65.	105	59-172
Trichloroethene	62.	0.	51.	82	62-137
Benzene	62.	0.	60.	97	66-142
Toluene	62.	4.	65.	98	59-139
Chlorobenzene	62.	0.	54.	87	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	62.	86.	139	28*	22	59-172
Trichloroethene	62.	63.	102	22	24	62-137
Benzene	62.	68.	110	13	21	66-142
Toluene	62.	76.	116	17	21	59-139
Chlorobenzene	62.	66.	106	20	21	60-133

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

* Values outside of QC limits

RPD: 1 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK2

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Lab File ID:VOL2521 Lab Sample ID:VBLK2

Date Analyzed: 5/01/92 Time Analyzed:2125

GC Column:DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID:INCOS50-2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EQK26	60304102	VOL2532	0333
02	EQK26MS	60304102	VOL2533	0406
03	EQK26MSD	60304102MSD	VOL2534	0439
04	EQK27	60305102	VOL2535	0511
05	EQK28	60306102	VOL2536	0544
06	EQK29	60307101	VOL2537	0616
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COMMENTS:

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK3

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Lab File ID:VOI3323 Lab Sample ID:VBLK3

Date Analyzed: 5/01/92 Time Analyzed:1017

GC Column:RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID:INCOS50-1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EQK01	60014103	VOI3326	1220
02	EQK02	60020103	VOI3332	1626
03	EQK03	60021101	VOI3333	1707
04	EQK04	60015101	VOI3327	1301
05	EQK05	60022101	VOI3334	1758
06	EQK07	60024101	VOI3336	1919
07	EQK08	60016103	VOI3328	1342
08	EQK09	60017103	VOI3329	1423
09	EQK10	60018101	VOI3330	1504
10	EQK11	60019101	VOI3331	1545
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COMMENTS:

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK4

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Lab File ID:VOI3340 Lab Sample ID:VBLK4

Date Analyzed: 5/04/92 Time Analyzed:1032

GC Column:RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID:INCOS50-1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EQK02MS	60020103	VOI3348	1555
02	EQK02MSD	60020103	VOI3342	1153
03	EQK06	60023101	VOI3343	1234
04				
05				
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COMMENTS:

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:VBLK2

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL2521

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 5/01/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	4.	J
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

000196

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK2

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:VBLK2

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL2521

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 5/01/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK3

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:VBLK3

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3323

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. 0 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

000203

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK3

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:VBLK3

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3323

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. 0 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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000204

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK4

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:VBLK4

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3340

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. 0 Date Analyzed: 5/04/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

000208

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK4

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:VBLK4

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3340

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. 0 Date Analyzed: 5/04/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK01

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60014103

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3326

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 32 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15.	U
74-83-9	Bromomethane	15.	U
75-01-4	Vinyl Chloride	15.	U
75-00-3	Chloroethane	15.	U
75-09-2	Methylene Chloride	15.	U
67-64-1	Acetone	17.	
75-15-0	Carbon Disulfide	15.	U
75-35-4	1,1-Dichloroethene	15.	U
75-34-3	1,1-Dichloroethane	15.	U
540-59-0	1,2-Dichloroethene (total)	15.	U
67-66-3	Chloroform	15.	U
107-06-2	1,2-Dichloroethane	15.	U
78-93-3	2-Butanone	15.	U
71-55-6	1,1,1-Trichloroethane	15.	U
56-23-5	Carbon Tetrachloride	15.	U
75-27-4	Bromodichloromethane	15.	U
78-87-5	1,2-Dichloropropane	15.	U
10061-01-5	cis-1,3-Dichloropropene	15.	U
79-01-6	Trichloroethene	15.	U
124-48-1	Dibromochloromethane	15.	U
79-00-5	1,1,2-Trichloroethane	15.	U
71-43-2	Benzene	15.	U
10061-02-6	trans-1,3-Dichloropropene	15.	U
75-25-2	Bromoform	15.	U
108-10-1	4-Methyl-2-Pentanone	15.	U
591-78-6	2-Hexanone	15.	U
127-18-4	Tetrachloroethene	15.	U
79-34-5	1,1,2,2-Tetrachloroethane	15.	U
108-88-3	Toluene	15.	U
108-90-7	Chlorobenzene	15.	U
100-41-4	Ethylbenzene	15.	U
100-42-5	Styrene	15.	U
1330-20-7	Xylene (total)	15.	U

000021

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK01

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60014103

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3326

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 32 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	22.55	33.	J
2.		UNKNOWN	23.21	25.	J
3.					
4.					
5.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK02

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60020103

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3332

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 19 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12.	U
74-83-9	Bromomethane	12.	U
75-01-4	Vinyl Chloride	12.	U
75-00-3	Chloroethane	12.	U
75-09-2	Methylene Chloride	12.	U
67-64-1	Acetone	11.	J
75-15-0	Carbon Disulfide	12.	U
75-35-4	1,1-Dichloroethene	12.	U
75-34-3	1,1-Dichloroethane	12.	U
540-59-0	1,2-Dichloroethene (total)	12.	U
67-66-3	Chloroform	12.	U
107-06-2	1,2-Dichloroethane	12.	U
78-93-3	2-Butanone	12.	U
71-55-6	1,1,1-Trichloroethane	12.	U
56-23-5	Carbon Tetrachloride	12.	U
75-27-4	Bromodichloromethane	12.	U
78-87-5	1,2-Dichloropropane	12.	U
10061-01-5	cis-1,3-Dichloropropene	12.	U
79-01-6	Trichloroethene	12.	U
124-48-1	Dibromochloromethane	12.	U
79-00-5	1,1,2-Trichloroethane	12.	U
71-43-2	Benzene	12.	U
10061-02-6	trans-1,3-Dichloropropene	12.	U
75-25-2	Bromoform	12.	U
108-10-1	4-Methyl-2-Pentanone	12.	U
591-78-6	2-Hexanone	12.	U
127-18-4	Tetrachloroethene	12.	U
79-34-5	1,1,2,2-Tetrachloroethane	12.	U
108-88-3	Toluene	4.	J
108-90-7	Chlorobenzene	12.	U
100-41-4	Ethylbenzene	12.	U
100-42-5	Styrene	12.	U
1330-20-7	Xylene (total)	12.	U

000032

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK02

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60020103

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3332

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 19 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK03

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60021101

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3333

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 33 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15.	U
74-83-9	Bromomethane	15.	U
75-01-4	Vinyl Chloride	15.	U
75-00-3	Chloroethane	15.	U
75-09-2	Methylene Chloride	15.	U
67-64-1	Acetone	15.	U
75-15-0	Carbon Disulfide	15.	U
75-35-4	1,1-Dichloroethene	15.	U
75-34-3	1,1-Dichloroethane	15.	U
540-59-0	1,2-Dichloroethene (total)	15.	U
67-66-3	Chloroform	15.	U
107-06-2	1,2-Dichloroethane	15.	U
78-93-3	2-Butanone	15.	U
71-55-6	1,1,1-Trichloroethane	15.	U
56-23-5	Carbon Tetrachloride	15.	U
75-27-4	Bromodichloromethane	15.	U
78-87-5	1,2-Dichloropropane	15.	U
10061-01-5	cis-1,3-Dichloropropene	15.	U
79-01-6	Trichloroethene	15.	U
124-48-1	Dibromochloromethane	15.	U
79-00-5	1,1,2-Trichloroethane	15.	U
71-43-2	Benzene	15.	U
10061-02-6	trans-1,3-Dichloropropene	15.	U
75-25-2	Bromoform	15.	U
108-10-1	4-Methyl-2-Pentanone	15.	U
591-78-6	2-Hexanone	15.	U
127-18-4	Tetrachloroethene	15.	U
79-34-5	1,1,2,2-Tetrachloroethane	15.	U
108-88-3	Toluene	9.	J
108-90-7	Chlorobenzene	15.	U
100-41-4	Ethylbenzene	15.	U
100-42-5	Styrene	15.	U
1330-20-7	Xylene (total)	15.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK03

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60021101

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3333

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 33 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK04

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60015101

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3327

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 4 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK04

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60015101

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3327

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 4 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK05

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60022101

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3334

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 38 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	16.	U
74-83-9	Bromomethane	16.	U
75-01-4	Vinyl Chloride	16.	U
75-00-3	Chloroethane	16.	U
75-09-2	Methylene Chloride	16.	U
67-64-1	Acetone	19.	
75-15-0	Carbon Disulfide	16.	U
75-35-4	1,1-Dichloroethene	16.	U
75-34-3	1,1-Dichloroethane	16.	U
540-59-0	1,2-Dichloroethene (total)	16.	U
67-66-3	Chloroform	16.	U
107-06-2	1,2-Dichloroethane	16.	U
78-93-3	2-Butanone	16.	U
71-55-6	1,1,1-Trichloroethane	16.	U
56-23-5	Carbon Tetrachloride	16.	U
75-27-4	Bromodichloromethane	16.	U
78-87-5	1,2-Dichloropropane	16.	U
10061-01-5	cis-1,3-Dichloropropene	16.	U
79-01-6	Trichloroethene	16.	U
124-48-1	Dibromochloromethane	16.	U
79-00-5	1,1,2-Trichloroethane	16.	U
71-43-2	Benzene	16.	U
10061-02-6	trans-1,3-Dichloropropene	16.	U
75-25-2	Bromoform	16.	U
108-10-1	4-Methyl-2-Pentanone	16.	U
591-78-6	2-Hexanone	16.	U
127-18-4	Tetrachloroethene	16.	U
79-34-5	1,1,2,2-Tetrachloroethane	16.	U
108-88-3	Toluene	16.	U
108-90-7	Chlorobenzene	16.	U
100-41-4	Ethylbenzene	16.	U
100-42-5	Styrene	16.	U
1330-20-7	Xylene (total)	16.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK05

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60022101

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3334

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 38 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK06

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60023101

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3343

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 42 Date Analyzed: 5/04/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	17.	U
74-83-9	Bromomethane	17.	U
75-01-4	Vinyl Chloride	17.	U
75-00-3	Chloroethane	17.	U
75-09-2	Methylene Chloride	17.	U
67-64-1	Acetone	110.	
75-15-0	Carbon Disulfide	17.	U
75-35-4	1,1-Dichloroethene	17.	U
75-34-3	1,1-Dichloroethane	17.	U
540-59-0	1,2-Dichloroethene (total)	17.	U
67-66-3	Chloroform	17.	U
107-06-2	1,2-Dichloroethane	17.	U
78-93-3	2-Butanone	17.	U
71-55-6	1,1,1-Trichloroethane	17.	U
56-23-5	Carbon Tetrachloride	17.	U
75-27-4	Bromodichloromethane	17.	U
78-87-5	1,2-Dichloropropane	17.	U
10061-01-5	cis-1,3-Dichloropropene	17.	U
79-01-6	Trichloroethene	17.	U
124-48-1	Dibromochloromethane	17.	U
79-00-5	1,1,2-Trichloroethane	17.	U
71-43-2	Benzene	17.	U
10061-02-6	trans-1,3-Dichloropropene	17.	U
75-25-2	Bromoform	17.	U
108-10-1	4-Methyl-2-Pentanone	17.	U
591-78-6	2-Hexanone	17.	U
127-18-4	Tetrachloroethene	17.	U
79-34-5	1,1,2,2-Tetrachloroethane	17.	U
108-88-3	Toluene	5.	J
108-90-7	Chlorobenzene	17.	U
100-41-4	Ethylbenzene	17.	U
100-42-5	Styrene	17.	U
1330-20-7	Xylene (total)	17.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK06

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60023101

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3343

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 42 Date Analyzed: 5/04/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK07

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60024101

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3336

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 46 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	19.	U
74-83-9	Bromomethane	19.	U
75-01-4	Vinyl Chloride	19.	U
75-00-3	Chloroethane	19.	U
75-09-2	Methylene Chloride	19.	U
67-64-1	Acetone	82.	
75-15-0	Carbon Disulfide	19.	U
75-35-4	1,1-Dichloroethene	19.	U
75-34-3	1,1-Dichloroethane	19.	U
540-59-0	1,2-Dichloroethene (total)	19.	U
67-66-3	Chloroform	19.	U
107-06-2	1,2-Dichloroethane	19.	U
78-93-3	2-Butanone	19.	U
71-55-6	1,1,1-Trichloroethane	19.	U
56-23-5	Carbon Tetrachloride	19.	U
75-27-4	Bromodichloromethane	19.	U
78-87-5	1,2-Dichloropropane	19.	U
10061-01-5	cis-1,3-Dichloropropene	19.	U
79-01-6	Trichloroethene	19.	U
124-48-1	Dibromochloromethane	19.	U
79-00-5	1,1,2-Trichloroethane	19.	U
71-43-2	Benzene	19.	U
10061-02-6	trans-1,3-Dichloropropene	19.	U
75-25-2	Bromoform	19.	U
108-10-1	4-Methyl-2-Pentanone	19.	U
591-78-6	2-Hexanone	19.	U
127-18-4	Tetrachloroethene	19.	U
79-34-5	1,1,2,2-Tetrachloroethane	19.	U
108-88-3	Toluene	19.	U
108-90-7	Chlorobenzene	19.	U
100-41-4	Ethylbenzene	19.	U
100-42-5	Styrene	19.	U
1330-20-7	Xylene (total)	19.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK07

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60024101

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3336

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 46 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK08

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60016103

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3328

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 53 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	21.	U
74-83-9	Bromomethane	21.	U
75-01-4	Vinyl Chloride	21.	U
75-00-3	Chloroethane	21.	U
75-09-2	Methylene Chloride	21.	U
67-64-1	Acetone	30.	
75-15-0	Carbon Disulfide	21.	U
75-35-4	1,1-Dichloroethene	21.	U
75-34-3	1,1-Dichloroethane	21.	U
540-59-0	1,2-Dichloroethene (total)	21.	U
67-66-3	Chloroform	21.	U
107-06-2	1,2-Dichloroethane	21.	U
78-93-3	2-Butanone	21.	U
71-55-6	1,1,1-Trichloroethane	21.	U
56-23-5	Carbon Tetrachloride	21.	U
75-27-4	Bromodichloromethane	21.	U
78-87-5	1,2-Dichloropropane	21.	U
10061-01-5	cis-1,3-Dichloropropene	21.	U
79-01-6	Trichloroethene	21.	U
124-48-1	Dibromochloromethane	21.	U
79-00-5	1,1,2-Trichloroethane	21.	U
71-43-2	Benzene	21.	U
10061-02-6	trans-1,3-Dichloropropene	21.	U
75-25-2	Bromoform	21.	U
108-10-1	4-Methyl-2-Pentanone	21.	U
591-78-6	2-Hexanone	21.	U
127-18-4	Tetrachloroethene	21.	U
79-34-5	1,1,2,2-Tetrachloroethane	21.	U
108-88-3	Toluene	21.	U
108-90-7	Chlorobenzene	21.	U
100-41-4	Ethylbenzene	21.	U
100-42-5	Styrene	21.	U
1330-20-7	Xylene (total)	21.	U

000080

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK08

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60016103

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3328

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 53 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK09

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60017103

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3329

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 64 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	28.	U
74-83-9	Bromomethane	28.	U
75-01-4	Vinyl Chloride	28.	U
75-00-3	Chloroethane	28.	U
75-09-2	Methylene Chloride	28.	U
67-64-1	Acetone	72.	
75-15-0	Carbon Disulfide	28.	U
75-35-4	1,1-Dichloroethene	28.	U
75-34-3	1,1-Dichloroethane	28.	U
540-59-0	1,2-Dichloroethene (total)	28.	U
67-66-3	Chloroform	28.	U
107-06-2	1,2-Dichloroethane	28.	U
78-93-3	2-Butanone	28.	U
71-55-6	1,1,1-Trichloroethane	28.	U
56-23-5	Carbon Tetrachloride	28.	U
75-27-4	Bromodichloromethane	28.	U
78-87-5	1,2-Dichloropropane	28.	U
10061-01-5	cis-1,3-Dichloropropene	28.	U
79-01-6	Trichloroethene	28.	U
124-48-1	Dibromochloromethane	28.	U
79-00-5	1,1,2-Trichloroethane	28.	U
71-43-2	Benzene	28.	U
10061-02-6	trans-1,3-Dichloropropene	28.	U
75-25-2	Bromoform	28.	U
108-10-1	4-Methyl-2-Pentanone	28.	U
591-78-6	2-Hexanone	28.	U
127-18-4	Tetrachloroethene	28.	U
79-34-5	1,1,2,2-Tetrachloroethane	28.	U
108-88-3	Toluene	28.	U
108-90-7	Chlorobenzene	28.	U
100-41-4	Ethylbenzene	28.	U
100-42-5	Styrene	28.	U
1330-20-7	Xylene (total)	28.	U

000087

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK09

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60017103

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3329

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 64 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK10

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60018101

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3330

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 47 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	19.	U
74-83-9	Bromomethane	19.	U
75-01-4	Vinyl Chloride	19.	U
75-00-3	Chloroethane	19.	U
75-09-2	Methylene Chloride	19.	U
67-64-1	Acetone	34.	J
75-15-0	Carbon Disulfide	19.	U
75-35-4	1,1-Dichloroethene	19.	U
75-34-3	1,1-Dichloroethane	19.	U
540-59-0	1,2-Dichloroethene (total)	19.	U
67-66-3	Chloroform	19.	U
107-06-2	1,2-Dichloroethane	19.	U
78-93-3	2-Butanone	19.	U
71-55-6	1,1,1-Trichloroethane	19.	U
56-23-5	Carbon Tetrachloride	19.	U
75-27-4	Bromodichloromethane	19.	U
78-87-5	1,2-Dichloropropane	19.	U
10061-01-5	cis-1,3-Dichloropropene	19.	U
79-01-6	Trichloroethene	19.	U
124-48-1	Dibromochloromethane	19.	U
79-00-5	1,1,2-Trichloroethane	19.	U
71-43-2	Benzene	19.	U
10061-02-6	trans-1,3-Dichloropropene	19.	U
75-25-2	Bromoform	19.	U
108-10-1	4-Methyl-2-Pentanone	19.	U
591-78-6	2-Hexanone	19.	U
127-18-4	Tetrachloroethene	19.	U
79-34-5	1,1,2,2-Tetrachloroethane	19.	U
108-88-3	Toluene	19.	U
108-90-7	Chlorobenzene	19.	U
100-41-4	Ethylbenzene	19.	U
100-42-5	Styrene	19.	U
1330-20-7	Xylene (total)	19.	U

000094

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK10

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60018101

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3330

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 47 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK11

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60019101

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3331

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 23 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13.	U
74-83-9	Bromomethane	13.	U
75-01-4	Vinyl Chloride	13.	U
75-00-3	Chloroethane	13.	U
75-09-2	Methylene Chloride	13.	U
67-64-1	Acetone	13.	U
75-15-0	Carbon Disulfide	13.	U
75-35-4	1,1-Dichloroethene	13.	U
75-34-3	1,1-Dichloroethane	13.	U
540-59-0	1,2-Dichloroethene (total)	13.	U
67-66-3	Chloroform	13.	U
107-06-2	1,2-Dichloroethane	13.	U
78-93-3	2-Butanone	13.	U
71-55-6	1,1,1-Trichloroethane	13.	U
56-23-5	Carbon Tetrachloride	13.	U
75-27-4	Bromodichloromethane	13.	U
78-87-5	1,2-Dichloropropane	13.	U
10061-01-5	cis-1,3-Dichloropropene	13.	U
79-01-6	Trichloroethene	13.	U
124-48-1	Dibromochloromethane	13.	U
79-00-5	1,1,2-Trichloroethane	13.	U
71-43-2	Benzene	13.	U
10061-02-6	trans-1,3-Dichloropropene	13.	U
75-25-2	Bromoform	13.	U
108-10-1	4-Methyl-2-Pentanone	13.	U
591-78-6	2-Hexanone	13.	U
127-18-4	Tetrachloroethene	13.	U
79-34-5	1,1,2,2-Tetrachloroethane	13.	U
108-88-3	Toluene	13.	U
108-90-7	Chlorobenzene	13.	U
100-41-4	Ethylbenzene	13.	U
100-42-5	Styrene	13.	U
1330-20-7	Xylene (total)	13.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK11

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60019101

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI3331

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: not dec. 23 Date Analyzed: 5/01/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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FILED

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 6/19/92

SUBJECT: Review of Region V CLP Data
Received for Review on May 26, 1992

FROM: Charles T. Elly, Director(5SCRL) Patrick J. Chunilla for
Central Regional Laboratory

TO: Data User: PRC

We have reviewed the data for the following case(s).

SITE NAME: Satralloy (OH) SMO Case No. 19026

EPA Data Set No. (1) No. of Samples 7 DU/Activity Numbers 1

CRL No.

SMO Traffic No. MERA 13-19

CLP Laboratory: Compuchem Hrs. for Review 5+1

Following are our findings:

See Attached Review - PJC

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications.
( ) Data are preliminary - pending verification by laboratory.
( ) Data are unacceptable.

cc: Elenor McLean, Sample Mgmt. Office
Edward Kantor, EMSL-Las Vegas

LABORATORY: COMPUCHEM CASE: 19026(1) SDG: MERA13

The laboratory portion's of case 19026(1) contains 7 low level soils assayed for total metals and total cyanide. The following narrative lists the out of control audits and their possible effects on the results.

EVIDENTIAL AUDIT: The DC1 form, DC2 form, airbill, traffic report/chain of custody, and sample tags, are original and present in the case. Pages 193-218(Pb and Tl data) are not original data and the lab does not indicate where they can be found. A phone log was issued. The original data can be found in SAS7243E SDG MEQK30.

ICP ANALYSES: The CCB was found to contain Be(2.7 ug/l, 1.8 ug/l). The preparation blank was found to contain Na(69.794 mg/kg). All Be results are estimated(J) due to contamination. All Na results except MERA15 and 17 are estimated(J) due to contamination.

The matrix spike recovery of Sb(42.9%) and Ag(70.8%) are out of control. All Sb and Ag data are estimated(UJ) due to a possible elevated detection limit.

The lab did not flag the matrix spike recovery of Mn(-50.7 %) since the sample result was 4X greater than the spike amount. All Mn data are acceptable.

GFAA ANALYSES: The matrix spike recoevry of As(73.3%) is out of control. All As data are estimated(J) due to a low bias.

The matrix spike recovery of Pb(15.8%) is out of control. The duplicate audit of Pb(56.9% RPD) is out of control. All Pb data are estimated(J) due to poor precision and a low bias.

The lab flagged "W" on results for Tl(MERA13, and 15-18) and Se(MERA14, 18, and 19). These results are estimated(UJ) due to interference.

OTHER QUALIFIERS: All CN and Hg results are acceptable.

LOCKHEED/ESAT DATE: 6/16/92 M. FLETCHER

CASE # 19026 (1)

SITE Satralloy

Lab Compychem

REVIEWED BY M. Fletcher

19026

MATRIX: Soil

CONC. : low

WATER SAMPLE SPK.

WATER SAMPLE DUP.

SOIL SAMPLE SPK.

SOIL SAMPLE DUP.

	OVERALL CASE QC									MATRIX SPECIFIC QC						SAMPLE SPECIFIC QC		FIELD QC			REGIONAL QC			OTHER/ COMMENTS
	Holding Time	Cal Blanks	Init Calver	Contin Calver	Prep Blk AQ	Prep Blk SOL	ICS %R	LCS % AQ	LCS % SOL	Sol Dup RPD	Sol Spk %R	AQ Dup RPD	AQ Spk %R	Ser Diln AQ	Ser Diln SOL	GFAA Dup	GFAA Spike	Blank	Dup RPD	Spike %R	Blind Blank	Blind Spike %R	Split Sample RPD	
Aluminum																								
Antimony											42.9													
Arsenic											73.3													
Barium																								
Beryllium		22/1.9																						
Cadmium																								
Calcium																								
Chromium																								
Cobalt																								
Copper																								
Iron																								
Lead										56.9	15.8													
Magnesium																								
Manganese																								
Mercury																								
Nickel																								
Potassium																								
Selenium																								
Silver											70.8													
Sodium						64.14																		
Thallium																								
Tin																								
Vanadium																								
Zinc																								
Cyanide																								

In Reference to Case No(s): 19026

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: 6/12/92

Laboratory Name: Comanche

Lab Contact: Rick [illegible]

Region: 5

Regional Contact: [illegible]

Call Initiated By: ____ Laboratory X Region

In reference to data for the following sample number(s):

[illegible]

Summary of Questions/Issues Discussed:

[illegible]

Summary of Resolution:

[illegible]

Signature Date

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

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COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

SOW No.: 3/90

BK

EPA Sample No.	Lab Sample ID
MERA13	491230
MERA14	491231
MERA14D	491236
MERA14S	491235
MERA15	491238
MERA16	491240
MERA17	491241
MERA18	491242
MERA19	491246

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MAY 26 1992
US EPA [illegible] LAB
536 S. CLARK ST
CHICAGO, ILLINOIS 60605

Were ICP interelement corrections applied?	Yes/No	YES
Were ICP background corrections applied?	Yes/No	YES
If yes, were raw data generated before application of background corrections?	Yes/No	NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: [signature] Name: Robert Hamrick

Date: May 22, 1992 Title: Manager Inorg-Div.

INORGANIC CASE 19026 MERA 13 004

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA13

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Matrix (soil/water): SOIL Lab Sample ID: 491230 BK

Level (low/med): LOW Date Received: 4/30/92

% Solids: 59.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7050.00			P
7440-36-0	Antimony	18.10	U	N	P
7440-38-2	Arsenic	6.90		N	F
7440-39-3	Barium	82.90			P
7440-41-7	Beryllium	.72	B		P
7440-43-9	Cadmium	1.70	U		P
7440-70-2	Calcium	13600.00			P
7440-47-3	Chromium	13.60			P
7440-48-4	Cobalt	11.00	B		P
7440-50-8	Copper	14.70			P
7439-89-6	Iron	21500.00			P
7439-92-1	Lead	12.70		N*	F
7439-95-4	Magnesium	1800.00			P
7439-96-5	Manganese	1500.00			P
7439-97-6	Mercury	.17	U		CV
7440-02-0	Nickel	19.60			P
7440-09-7	Potassium	985.00	B		P
7782-49-2	Selenium	1.00	U		F
7440-22-4	Silver	3.40	U	N	P
7440-23-5	Sodium	216.00	B		P
7440-28-0	Thallium	.67	U	W	F
7440-62-2	Vanadium	15.00	B		P
7440-66-6	Zinc	62.70			P
	Cyanide	.84	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA14 BL

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Matrix (soil/water): SOIL Lab Sample ID: 491231

Level (low/med): LOW Date Received: 4/30/92

% Solids: 72.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7010.00			P
7440-36-0	Antimony	15.00	U	N	P
7440-38-2	Arsenic	13.80		N	F
7440-39-3	Barium	73.80			P
7440-41-7	Beryllium	.93	B		P
7440-43-9	Cadmium	1.40	U		P
7440-70-2	Calcium	21400.00			P
7440-47-3	Chromium	15.40			P
7440-48-4	Cobalt	22.20			P
7440-50-8	Copper	19.60			P
7439-89-6	Iron	35900.00			P
7439-92-1	Lead	19.50		N*	F
7439-95-4	Magnesium	2930.00			P
7439-96-5	Manganese	1420.00			P
7439-97-6	Mercury	.14	U		CV
7440-02-0	Nickel	40.00			P
7440-09-7	Potassium	848.00	B		P
7782-49-2	Selenium	.83	U	W	F
7440-22-4	Silver	2.80	U	N	P
7440-23-5	Sodium	184.00	B		P
7440-28-0	Thallium	.55	U		F
7440-62-2	Vanadium	17.20			P
7440-66-6	Zinc	93.70			P
	Cyanide	.69	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA15

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Matrix (soil/water): SOIL Lab Sample ID: 491238

Level (low/med): LOW Date Received: 4/30/92

% Solids: 32.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9160.00			P
7440-36-0	Antimony	32.70	U	N	P
7440-38-2	Arsenic	8.30		SN	F
7440-39-3	Barium	117.00	B		P
7440-41-7	Beryllium	1.20	B		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	56700.00			P
7440-47-3	Chromium	16.70			P
7440-48-4	Cobalt	14.70	B		P
7440-50-8	Copper	20.40			P
7439-89-6	Iron	25800.00			P
7439-92-1	Lead	17.40		N*	F
7439-95-4	Magnesium	2880.00	B		P
7439-96-5	Manganese	1050.00			P
7439-97-6	Mercury	.29	U		CV
7440-02-0	Nickel	27.50			P
7440-09-7	Potassium	1740.00	U		P
7782-49-2	Selenium	1.80	U		F
7440-22-4	Silver	6.10	U	N	P
7440-23-5	Sodium	374.00	B		P
7440-28-0	Thallium	1.20	U	W	F
7440-62-2	Vanadium	19.70	B		P
7440-66-6	Zinc	97.70			P
	Cyanide	1.50	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA16

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Matrix (soil/water): SOIL Lab Sample ID: 491240

Level (low/med): LOW Date Received: 4/30/92

% Solids: 44.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8990.00			P
7440-36-0	Antimony	24.20	U	N	P
7440-38-2	Arsenic	8.70		N	F
7440-39-3	Barium	88.40	B		P
7440-41-7	Beryllium	1.10	B		P
7440-43-9	Cadmium	2.20	U		P
7440-70-2	Calcium	13200.00			P
7440-47-3	Chromium	29.50			P
7440-48-4	Cobalt	18.90	B		P
7440-50-8	Copper	19.50			P
7439-89-6	Iron	42300.00			P
7439-92-1	Lead	14.40		N*	F
7439-95-4	Magnesium	2980.00			P
7439-96-5	Manganese	1470.00			P
7439-97-6	Mercury	.22	U		CV
7440-02-0	Nickel	32.20			P
7440-09-7	Potassium	1550.00	B		P
7782-49-2	Selenium	1.30	U		F
7440-22-4	Silver	4.50	U	N	P
7440-23-5	Sodium	267.00	B		P
7440-28-0	Thallium	.88	U	W	F
7440-62-2	Vanadium	22.60			P
7440-66-6	Zinc	93.60			P
	Cyanide	1.10	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA17

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Matrix (soil/water): SOIL Lab Sample ID: 491241

Level (low/med): LOW Date Received: 4/30/92

% Solids: 39.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9430.00			P
7440-36-0	Antimony	26.60	U	N	P
7440-38-2	Arsenic	7.60		SN	F
7440-39-3	Barium	88.20	B		P
7440-41-7	Beryllium	.87	B		P
7440-43-9	Cadmium	2.50	U		P
7440-70-2	Calcium	106000.00			P
7440-47-3	Chromium	327.00			P
7440-48-4	Cobalt	13.30	B		P
7440-50-8	Copper	16.30			P
7439-89-6	Iron	23900.00			P
7439-92-1	Lead	22.50		N*	F
7439-95-4	Magnesium	13400.00			P
7439-96-5	Manganese	1660.00			P
7439-97-6	Mercury	.25	U		CV
7440-02-0	Nickel	26.90			P
7440-09-7	Potassium	1410.00	U		P
7782-49-2	Selenium	1.50	U		F
7440-22-4	Silver	4.90	U	N	P
7440-23-5	Sodium	377.00	B		P
7440-28-0	Thallium	1.00	U	W	F
7440-62-2	Vanadium	20.90	B		P
7440-66-6	Zinc	147.00			P
	Cyanide	1.30	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA18

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Matrix (soil/water): SOIL Lab Sample ID: 491242

Level (low/med): LOW Date Received: 4/30/92

% Solids: 74.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5060.00			P
7440-36-0	Antimony	14.50	U	N	P
7440-38-2	Arsenic	4.60		SN	F
7440-39-3	Barium	44.90	B		P
7440-41-7	Beryllium	.67	B		P
7440-43-9	Cadmium	1.30	U		P
7440-70-2	Calcium	17300.00			P
7440-47-3	Chromium	24.40			P
7440-48-4	Cobalt	11.50	B		P
7440-50-8	Copper	9.60			P
7439-89-6	Iron	25400.00			P
7439-92-1	Lead	10.50		N*	F
7439-95-4	Magnesium	2050.00			P
7439-96-5	Manganese	771.00			P
7439-97-6	Mercury	.13	U		CV
7440-02-0	Nickel	21.00			P
7440-09-7	Potassium	772.00	U		P
7782-49-2	Selenium	.81	U	W	F
7440-22-4	Silver	2.70	U	N	P
7440-23-5	Sodium	168.00	B		P
7440-28-0	Thallium	.54	U	W	F
7440-62-2	Vanadium	14.30			P
7440-66-6	Zinc	60.00			P
	Cyanide	.67	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA19

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Matrix (soil/water): SOIL Lab Sample ID: 491246

Level (low/med): LOW Date Received: 4/30/92

% Solids: 70.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5090.00			P
7440-36-0	Antimony	15.40	U	N	P
7440-38-2	Arsenic	6.40		N	F
7440-39-3	Barium	47.00	B		P
7440-41-7	Beryllium	.68	B		P
7440-43-9	Cadmium	1.40	U		P
7440-70-2	Calcium	9570.00			P
7440-47-3	Chromium	16.80			P
7440-48-4	Cobalt	12.20	B		P
7440-50-8	Copper	11.00			P
7439-89-6	Iron	23600.00			P
7439-92-1	Lead	15.60		N*	F
7439-95-4	Magnesium	1790.00			P
7439-96-5	Manganese	767.00			P
7439-97-6	Mercury	.14	U		CV
7440-02-0	Nickel	21.20			P
7440-09-7	Potassium	819.00	U		P
7782-49-2	Selenium	.86	U	W	F
7440-22-4	Silver	2.90	U	N	P
7440-23-5	Sodium	162.00	B		P
7440-28-0	Thallium	.57	U		F
7440-62-2	Vanadium	13.10	B		P
7440-66-6	Zinc	61.10			P
	Cyanide	.71	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:
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Inorganic Case 19026 MERA 13 011

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3
BLANKS

Lab name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	57.0	U	57.0	U	57.0	U	57.0	U	14.885	B	P
Antimony	54.0	U	54.0	U	54.0	U	54.0	U	10.800	U	P
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	.600	U	F
Barium	2.0	U	2.0	U	2.9	B	2.1	B	.400	U	P
Beryllium	1.0	U	1.0	U	2.7	B	1.8	B	.200	U	P
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	1.000	U	P
Calcium	23.0	U	23.0	U	51.6	B	37.7	B	6.300	B	P
Chromium	7.0	U	7.0	U	7.0	U	7.0	U	1.400	U	P
Cobalt	9.0	U	9.0	U	9.0	U	9.0	U	1.800	U	P
Copper	9.0	U	9.0	U	9.0	U	9.0	U	1.800	U	P
Iron	21.0	U	21.0	U	21.0	U	21.0	U	4.200	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	.400	U	F
Magnesium	70.0	U	70.0	U	70.0	U	70.0	U	14.000	U	P
Manganese	2.0	U	2.0	U	3.9	B	2.3	B	.400	U	P
Mercury	.2	U	.2	U	.2	U	.2	U	.100	U	CV
Nickel	12.0	U	12.0	U	12.0	U	12.0	U	2.400	U	P
Potassium	2867.0	U	2867.0	U	2867.0	U	2867.0	U	573.400	U	P
Selenium	3.0	U	3.0	U	3.0	U	3.0	U	.600	U	F
Silver	10.0	U	10.0	U	10.0	U	10.0	U	2.000	U	P
Sodium	334.0	U	334.0	U	334.0	U	334.0	U	69.794	B	P
Thallium	2.0	U	2.0	U	2.0	U	2.0	U	.400	U	F
Vanadium	7.0	U	7.0	U	7.0	U	7.0	U	1.400	U	P
Zinc	3.0	U	3.0	U	3.1	B	3.0	U	.801	B	P
Cyanide	10.0	U	10.0	U	10.0	U	10.0	U	.500	U	AS

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3
BLANKS

Lab name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			57.0	U	57.0	U	72.0	B			P
Antimony			54.0	U	54.0	U	54.0	U			P
Arsenic			3.0	U	3.0	U	3.0	U			F
Barium			2.9	B	2.0	U	3.3	B			P
Beryllium			2.5	B	1.6	B	3.0	B			P
Cadmium			5.0	U	5.0	U	5.0	U			P
Calcium			41.2	B	26.1	B	81.0	B			P
Chromium			7.0	U	7.0	U	7.0	U			P
Cobalt			9.0	U	9.0	U	9.0	U			P
Copper			9.0	U	9.0	U	9.0	U			P
Iron			21.0	U	21.0	U	21.0	U			P
Lead			2.0	U	2.0	U	2.0	U			F
Magnesium			70.0	U	70.0	U	70.0	U			P
Manganese			3.4	B	2.2	B	3.3	B			P
Mercury											
Nickel			12.0	U	12.0	U	12.0	U			P
Potassium			2867.0	U	2867.0	U	2867.0	U			P
Selenium			3.0	U	3.0	U	3.0	U			F
Silver			10.0	U	10.0	U	10.0	U			P
Sodium			334.0	U	334.0	U	334.0	U			P
Thallium			2.0	U	2.0	U	2.0	U			F
Vanadium			7.0	U	7.0	U	7.0	U			P
Zinc			3.0	U	5.9	B	7.3	B			P
Cyanide			10.0	U	10.0	U	10.0	U			AS

FORM III - IN

U.S. EPA - CLP

3
BLANKS

Lab name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic			3.0	U							F
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead			2.0	U	2.0	U					F
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium			3.0	U							F
Silver											
Sodium											
Thallium			2.0	U	2.0	U					F
Vanadium											
Zinc											
Cyanide											

FORM III - IN

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3
BLANKS

Lab name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead	2.0	U	2.0	U	2.0	U	2.0	U			F
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium	2.0	U	2.0	U	2.0	U	2.0	U			F
Vanadium											
Zinc											
Cyanide											

FORM III - IN

U.S. EPA - CLP

3
BLANKS

Lab name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead			2.0	U	2.0	U	2.0	U			F
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium			2.0	U	2.0	U	2.0	U			F
Vanadium											
Zinc											
Cyanide											

FORM III - IN

U.S. EPA - CLP

3
BLANKS

Lab name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead			2.0	U	2.0	U					F
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium			2.0	U	2.0	U					F
Vanadium											
Zinc											
Cyanide											

FORM III - IN

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MERA14S

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Matrix: SOIL Level (low/med): LOW

% Solids for Sample: 72.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	59.3684		14.9584	U	138.50	42.9	N	P
Arsenic	75-125	21.8837		13.7618		11.08	73.3	N	F
Barium	75-125	576.9529		73.7784		554.02	90.8		P
Beryllium	75-125	13.4972		.9342	B	13.85	90.7		P
Cadmium	75-125	13.5330		1.3850	U	13.85	97.7		P
Calcium									NR
Chromium	75-125	66.4958		15.4194		55.40	92.2		P
Cobalt	75-125	143.8615		22.2224		138.50	87.8		P
Copper	75-125	82.8532		19.6496		69.25	91.3		P
Iron									NR
Lead	75-125	20.3878		19.5152		5.54	15.8	N	F
Magnesium									NR
Manganese		1351.6068		1421.7728		138.50	-50.7		P
Mercury	75-125	.7327		.1385	U	.69	106.2		CV
Nickel	75-125	165.8615		40.0277		138.50	90.9		P
Potassium									NR
Selenium	75-125	2.1648		.8310	U	2.77	78.2		F
Silver	75-125	9.8078		2.7701	U	13.85	70.8	N	P
Sodium									NR
Thallium	75-125	10.9917		.5540	U	13.85	79.4		F
Vanadium	75-125	143.1136		17.2089		138.50	90.9		P
Zinc	75-125	212.5928		93.7230		138.50	85.8		P
Cyanide	75-125	6.7829		.6898	U	6.90	98.3		AS

Comments:
FORM 5A.01-PG 1 (SR)LAB ID:491231

ICP METALS (SSR)LAB ID:491232
AA METALS (SSR)LAB ID:491232
MERCURY (SSR)LAB ID:491232
CYANIDE (SSR)LAB ID:491235

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MERA14A

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Matrix: SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony		109.69		54.00	U	120.0	91.4		P
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

Comments:
FORM 5B.01 - PAGE 1 LAB SAMPLE ID:491231

FORM V (Part 2) - IN

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

MERA14D

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Matrix (water/soil): SOIL Level (low/med): LOW

% Solids for Sample: 72.2 % Solids for Duplicate: 74.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	%RPD	Q	M
Aluminum		7008.8646		6527.7011		7.1		P
Antimony		14.9584	U	14.9584	U			P
Arsenic	2.8	13.7618		13.3075		3.4		F
Barium	55.4	73.7784		58.8920		22.4		P
Beryllium		.9342	B	.9788	B	4.7		P
Cadmium		1.3850	U	1.3850	U			P
Calcium		21371.4690		22227.1478		3.9		P
Chromium		15.4194		16.5989		7.4		P
Cobalt	13.9	22.2224		19.9468		10.8		P
Copper	6.9	19.6496		17.2884		12.8		P
Iron		35850.4170		32407.2036		10.1		P
Lead		19.5152		10.8657		56.9	*	F
Magnesium	1385.0	2929.0860		2712.6316		7.7		P
Manganese		1421.7728		1264.8753		11.7		P
Mercury		.1385	U	.1385	U			CV
Nickel	11.1	40.0277		38.3795		4.2		P
Potassium		847.8117	B	832.4654	B	1.8		P
Selenium		.8310	U	.8310	U			F
Silver		2.7701	U	2.7701	U			P
Sodium		184.1911	B	185.4515	B	.7		P
Thallium		.5540	U	.5540	U			F
Vanadium	13.9	17.2089		16.2643		5.6		P
Zinc		93.7230		79.3158		16.7		P
Cyanide		.6898	U	.6898	U			AS

FORM VI - IN

3/90

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

ICP ID Number: Date: 4/15/92

Flame AA ID Number: V2

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	.2	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:
FORM 10 - PAGE 1

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

ICP ID Number: P2 Date: 4/15/92

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	57.0	P
Antimony	206.80		60	54.0	P
Arsenic			10		NR
Barium	493.40		200	2.0	P
Beryllium	313.00		5	1.0	P
Cadmium	228.80		5	5.0	P
Calcium	315.80		5000	23.0	P
Chromium	267.70		10	7.0	P
Cobalt	228.60		50	9.0	P
Copper	324.70		25	9.0	P
Iron	259.90		100	21.0	P
Lead			3		NR
Magnesium	279.00		5000	70.0	P
Manganese	257.60		15	2.0	P
Mercury			0.2		NR
Nickel	231.60		40	12.0	P
Potassium	766.40		5000	2867.0	P
Selenium			5		NR
Silver	328.00		10	10.0	P
Sodium	588.90		5000	334.0	P
Thallium			10		NR
Vanadium	292.40		50	7.0	P
Zinc	213.80		20	3.0	P

Comments:
FORM 10 - PAGE 2

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

ICP ID Number: Date: 4/15/92

Flame AA ID Number:

Furnace AA ID Number: A6

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic	197.30	BS	10	3.0	F
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium	196.00	BS	5	3.0	F
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:
FORM 10 - PAGE 3

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

ICP ID Number: Date: 4/15/92

Flame AA ID Number:

Furnace AA ID Number: A1

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	283.30	BS	3	2.0	F
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:
FORM 10 - PAGE 4

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

ICP ID Number: Date: 4/15/92

Flame AA ID Number:

Furnace AA ID Number: A1

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	283.30	BS	3	2.0	F
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium	276.80	BS	10	2.0	F
Vanadium			50		NR
Zinc			20		NR

Comments:
FORM 10 - PAGE 5

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No. (1) CERCLIS No. (OH)

Case No. 19026 Site Name Location: Satralloy

Contractor or EPA Lab: Compuchem Data User: PRC

No. of Samples: 7 Date Samples or Data Received: May 26 1992

Have Chain-of-Custody records been received? YES ___ NO ✓
Have traffic reports or packing lists been received? YES ___ NO ✓
If no, are traffic report or packing list numbers written on the chain-of-custody record? YES ✓ NO ___
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? YES ✓ NO ___
No. of samples claimed: 7 No. of samples received: 7

Received by: Lynette Burnett Date: May 26, 1992

Received by LSSS: DMM Date: 5-26-92

Review started: 6/12/92 Reviewer Signature: M. Fletcher

Total time spent on review: 5 Date review completed: 6/12/92

Copied by: Dorothy Anderson +1 GWA 6/13/92 Date: 6-22-92

Mailed to user by: Lynette Burnett Date: 6-23-92

DATA USERS:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, 5SCRL

Data received by: Mildred Yarbrough Date: JUN 29 1992

Data review received by: ___ Date: ___
Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] list
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ] problems
SAS Data Complete [ ] Suitable for Intended Purpose [ ] below.
PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files Date: ___

FILED

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 6/19/92

SUBJECT: Review of Region V CLP Data
Received for Review on May 28, 1992

FROM: Charles T. Elly, Director(5SCRL) Patrick J. Chirilla for
Central Regional Laboratory

TO: Data User: PRC

We have reviewed the data for the following case(s).

SITE NAME: Satralloy (OH) SMO Case No. 19026

EPA Data Set No. (2) No. of Samples 4 DU/Activity Numbers 1

CRL No.

SMO Traffic No. MERA30-33

CLP Laboratory: Compuchem Hrs. for Review 4 +0.5 Y

Following are our findings:

See Attached Review - PJC

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications.
( ) Data are preliminary - pending verification by laboratory.
( ) Data are unacceptable.

cc: Elenor McLean, Sample Mgmt. Office
Edward Kantor, EMSL-Las Vegas

LABORATORY: COMPUCHEM CASE: 19026(2) SDG: MERA30

The laboratory's portion of case 19026(2) contains 4 low level water sample assayed for total metals and total cyanide. The following narrative lists the out of control audits and their possible effects on the results.

EVIDENTIAL AUDIT: The lab lists only the SDG for where the originals for the airbill, DC1, traffic report/chain of custody, and samples tags can be found. However, the reviewer located the the original information in case 19026(1) SDG MERA13. The CN raw data can be found in case 19026(1) SDG MERA13.

ICP ANALYSES: The duplicate audit of Fe(CRDL) is out of control. The preparation blank was found to contain Fe(15.11 ug/l). The sample results MERA31, 33 for Fe are estimated(J) due to contamination and poor precision. The remaining Fe data are estimated(J) due to poor precision.

The preparation blank was found to contain Na(354.570 ug/l) and Zn(3.703 ug/l). The Na result of MERA33 and the Zn results of MERA 30, 32, and 33 are estimated(J) due to contamination.

The lab did not flag the matrix spike recovery of Cr(151%) since the sample result was 4X greater than the amount of spike added. All Cr data are acceptable.

The duplicate audit of Al(34.2% RPD) was not flagged by the lab since the technical criteria(CRDL) for waters was not exceeded. All Al data are acceptable.

GFAA ANALYSES: The duplicate audit of As(49.8% RPD) was not flagged by the lab since the technical criteria(CRDL) was not exceeded by the lab. As data is not qualified based on the duplicate audit. The lab flagged "W" on MERA30-32 for As. MERA32 is estimated(J) and MERA30, 31 are estimated(UJ) due to interference for As.

The lab flagged "W" on MERA30-32 for Pb. The matrix spike recovery for Pb(46.1%) is out of control. The Pb result on MERA33 is estimated(UJ) due to a possible elevated detection limit. The remaining Pb results are estimated(UJ) due to interference and a possible elevated detection limit.

The matrix spike recovery of Se(51.5%) is out of control. The lab flagged "W" on MERA32 for Se. Sample result on MERA32 for Se is estimated(UJ) due to interference and a possible elevated detection limit. The remaining Se results are estimated(UJ) due to a possible elevated detection limit.

M. Fletcher

M. Fletcher LOCKHEED/ESAT DATE: 6/16/92

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 6/19/92

SUBJECT: Review of Region V CLP Data Received for Review on May 28, 1992

FROM: Charles T. Elly, Director(5SCRL) Patrick J. Chirilla for
Central Regional Laboratory

TO: Data User: PRC

We have reviewed the data for the following case(s).

SITE NAME: Satralloy (OH) SMO Case No. 19026

EPA Data Set No. (2) No. of Samples 4 DU/Activity Numbers 1

CRL No.

SMO Traffic No. MERA30-33

CLP Laboratory: Compuchem Hrs. for Review 4 +0.5 Y

Following are our findings:

See Attached Review - PJC

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications.
( ) Data are preliminary - pending verification by laboratory.
( ) Data are unacceptable.

cc: Elenor McLean, Sample Mgmt. Office
Edward Kantor, EMSL-Las Vegas

LABORATORY: COMPUCHEM CASE: 19026(2) SDG: MERA30

The laboratory's portion of case 19026(2) contains 4 low level water sample assayed for total metals and total cyanide. The following narrative lists the out of control audits and their possible effects on the results.

EVIDENTIAL AUDIT: The lab lists only the SDG for where the originals for the airbill, DC1, traffic report/chain of custody, and samples tags can be found. However, the reviewer located the the original information in case 19026(1) SDG MERA13. The CN raw data can be found in case 19026(1) SDG MERA13.

ICP ANALYSES: The duplicate audit of Fe(CRDL) is out of control. The preparation blank was found to contain Fe(15.11 ug/l). The sample results MERA31, 33 for Fe are estimated(J) due to contamination and poor precision. The remaining Fe data are estimated(J) due to poor precision.

The preparation blank was found to contain Na(354.570 ug/l) and Zn(3.703 ug/l). The Na result of MERA33 and the Zn results of MERA 30, 32, and 33 are estimated(J) due to contamination.

The lab did not flag the matrix spike recovery of Cr(151%) since the sample result was 4X greater than the amount of spike added. All Cr data are acceptable.

The duplicate audit of Al(34.2% RPD) was not flagged by the lab since the technical criteria(CRDL) for waters was not exceeded. All Al data are acceptable.

GFAA ANALYSES: The duplicate audit of As(49.8% RPD) was not flagged by the lab since the technical criteria(CRDL) was not exceeded by the lab. As data is not qualified based on the duplicate audit. The lab flagged "W" on MERA30-32 for As. MERA32 is estimated(J) and MERA30, 31 are estimated(UJ) due to interference for As.

The lab flagged "W" on MERA30-32 for Pb. The matrix spike recovery for Pb(46.1%) is out of control. The Pb result on MERA33 is estimated(UJ) due to a possible elevated detection limit. The remaining Pb results are estimated(UJ) due to interference and a possible elevated detection limit.

The matrix spike recovery of Se(51.5%) is out of control. The lab flagged "W" on MERA32 for Se. Sample result on MERA32 for Se is estimated(UJ) due to interference and a possible elevated detection limit. The remaining Se results are estimated(UJ) due to a possible elevated detection limit.

M. Fletcher

M. Fletcher LOCKHEED/ESAT DATE: 6/16/92

GFAA ANALYSES: The matrix spike recoevry of Tl(68.6%) is out of control. The lab flagged "W" on MERA30-32 for Tl. All "W" flagged data are estimated(UJ) due to interference and a possible elevated detection limit. The remaining Tl result is estimated(UJ) due to a possible elevated detection limit.

OTHER QUALIFIERS: All CN and Hg data are acceptable.

The field duplicate pair, MERA30/31 indicated poor precision for Fe(200% RPD). All Fe data remain qualified as previously stated.

The field blank, MERA33 contained Fe(41.80 ug/l) and Zn(8.5 ug/l). MERA31, 32 for Fe and MERA30, 32 for Zn are affected by contamination however the results remain qualified as previously stated.

M. Fletcher

M. FLETCHER LOCKHEED/ESAT DATE: 6/16/92

U. S. EPA - CLP
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

SOW No.: 3/90

EPA Sample No.	Lab Sample ID
MERA30	491248
MERA31	491252
MERA32	491260
MERA32D	491250
MERA32S	491253
MERA33	491263

RECEIVED
US EPA REGIONAL LAB.
536 S CLARK ST
CHICAGO, ILLINOIS 60605

Were ICP interelement corrections applied?	Yes/No	YES
Were ICP background corrections applied?	Yes/No	YES
If yes, were raw data generated before application of background corrections?	Yes/No	NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Rob Chmielewski for Name: Rob Hamrick

Date: 5-26-92 Title: Manager Inorganic Div.

CASE # 16026C2

DATE 6/12/92

SITE Satellite

LAB Compatchem

REVIEWED BY M. Jeffers

MATRIX: Water

CONC. : Low

WATER SAMPLE SPK.

WATER SAMPLE DUP.

SOIL SAMPLE SPK.

SOIL SAMPLE DUP.

	OVERALL CASE QC									MATRIX SPECIFIC QC						SAMPLE SPECIFIC QC		FIELD QC			REGIONAL QC			OTHER/ COMMENTS
	Holding Time	Cal Blanks	Init Calver	Contin Calver	Prep Blk AQ	Prep Blk SOL	ICS %R	LCS % AQ	LCS % SOL	Sol Dup RPD	Sol Spk %R	AQ Dup RPD	AQ Spk %R	Ser Dilu AQ	Ser Dilu SOL	GFAA Dup	GFAA Spike	Blank	Dup RPD	Spike %R	Blind Blank	Blind Spike %R	Split Sample RPD	
inum																								
ony																								
ic																								
m																								
ium																								
ium																								
m																								
nium																								
l																								
er																								
												94.3	~~46.7~~					200	41.50					
					15.11								46.1											
esium																								
anese																								
ty																								
ium																								
um													51.5											
n					354.50																			
um													[illegible]											
hum																								
					3.703														8.5					
de																								

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA30

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Matrix (soil/water): WATER Lab Sample ID: 491248

Level (low/med): LOW Date Received: 4/30/92

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	84.00	U		P
7440-36-0	Antimony	41.00	U		P
7440-38-2	Arsenic	3.00	U	W	F
7440-39-3	Barium	27.50	B		P
7440-41-7	Beryllium	2.00	U		P
7440-43-9	Cadmium	5.00	U		P
7440-70-2	Calcium	249000.00			P
7440-47-3	Chromium	743.00			P
7440-48-4	Cobalt	11.00	U		P
7440-50-8	Copper	19.00	U		P
7439-89-6	Iron	215.00		*	P
7439-92-1	Lead	2.00	U	WN	F
7439-95-4	Magnesium	60700.00			P
7439-96-5	Manganese	8.60	B		P
7439-97-6	Mercury	.20	U		CV
7440-02-0	Nickel	29.00	U		P
7440-09-7	Potassium	6240.00			P
7782-49-2	Selenium	15.00	U	N	F
7440-22-4	Silver	10.00	U		P
7440-23-5	Sodium	29000.00			P
7440-28-0	Thallium	2.00	U	WN	F
7440-62-2	Vanadium	13.00	U		P
7440-66-6	Zinc	3.30	B		P
	Cyanide	10.00	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA31

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Matrix (soil/water): WATER Lab Sample ID: 491252

Level (low/med): LOW Date Received: 4/30/92

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	86.00	B		P
7440-36-0	Antimony	41.00	U		P
7440-38-2	Arsenic	3.00	U	W	F
7440-39-3	Barium	27.70	B		P
7440-41-7	Beryllium	2.00	U		P
7440-43-9	Cadmium	5.00	U		P
7440-70-2	Calcium	251000.00			P
7440-47-3	Chromium	751.00			P
7440-48-4	Cobalt	11.00	U		P
7440-50-8	Copper	19.00	U		P
7439-89-6	Iron	29.10	B	*	P
7439-92-1	Lead	2.00	U	WN	F
7439-95-4	Magnesium	62000.00			P
7439-96-5	Manganese	9.20	B		P
7439-97-6	Mercury	.20	U		CV
7440-02-0	Nickel	29.00	U		P
7440-09-7	Potassium	6140.00			P
7782-49-2	Selenium	15.00	U	N	F
7440-22-4	Silver	10.00	U		P
7440-23-5	Sodium	29800.00			P
7440-28-0	Thallium	2.00	U	WN	F
7440-62-2	Vanadium	13.00	U		P
7440-66-6	Zinc	3.00	U		P
	Cyanide	10.30			AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA32

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Matrix (soil/water): WATER Lab Sample ID: 491260

Level (low/med): LOW Date Received: 4/30/92

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	276.00			P
7440-36-0	Antimony	41.00	U		P
7440-38-2	Arsenic	8.70	B	W	F
7440-39-3	Barium	19.40	B		P
7440-41-7	Beryllium	2.00	U		P
7440-43-9	Cadmium	5.00	U		P
7440-70-2	Calcium	123000.00			P
7440-47-3	Chromium	819.00			P
7440-48-4	Cobalt	11.00	U		P
7440-50-8	Copper	19.00	U		P
7439-89-6	Iron	166.00		*	P
7439-92-1	Lead	2.00	U	WN	F
7439-95-4	Magnesium	9970.00			P
7439-96-5	Manganese	47.00			P
7439-97-6	Mercury	.20	U		CV
7440-02-0	Nickel	29.00	U		P
7440-09-7	Potassium	15700.00			P
7782-49-2	Selenium	15.00	U	WN	F
7440-22-4	Silver	10.00	U		P
7440-23-5	Sodium	23000.00			P
7440-28-0	Thallium	2.00	U	WN	F
7440-62-2	Vanadium	13.00	U		P
7440-66-6	Zinc	4.30	B		P
	Cyanide	10.00	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA33

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Matrix (soil/water): WATER Lab Sample ID: 491263

Level (low/med): LOW Date Received: 4/30/92

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	84.00	U		P
7440-36-0	Antimony	41.00	U		P
7440-38-2	Arsenic	3.00	U		F
7440-39-3	Barium	3.00	U		P
7440-41-7	Beryllium	2.00	U		P
7440-43-9	Cadmium	5.00	U		P
7440-70-2	Calcium	843.00	U		P
7440-47-3	Chromium	10.00	U		P
7440-48-4	Cobalt	11.00	U		P
7440-50-8	Copper	19.00	U		P
7439-89-6	Iron	41.80	B	*	P
7439-92-1	Lead	2.00	U	N	F
7439-95-4	Magnesium	347.00	U		P
7439-96-5	Manganese	3.00	U		P
7439-97-6	Mercury	.20	U		CV
7440-02-0	Nickel	29.00	U		P
7440-09-7	Potassium	4180.00	U		P
7782-49-2	Selenium	3.00	U	N	F
7440-22-4	Silver	10.00	U		P
7440-23-5	Sodium	337.00	B		P
7440-28-0	Thallium	2.00	U	N	F
7440-62-2	Vanadium	13.00	U		P
7440-66-6	Zinc	8.50	B		P
	Cyanide	10.00	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
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3
BLANKS

Lab name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	84.0	U	84.0	U	84.0	U	84.0	U	84.000	U	P
Antimony	41.0	U	41.0	U	41.0	U	41.0	U	41.000	U	P
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	F
Barium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Beryllium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Calcium	843.0	U	843.0	U	843.0	U	843.0	U	843.000	U	P
Chromium	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Cobalt	11.0	U	11.0	U	11.0	U	11.0	U	11.000	U	P
Copper	19.0	U	19.0	U	19.0	U	19.0	U	19.000	U	P
Iron	7.0	U	7.0	U	7.0	U	7.0	U	15.111	B	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	F
Magnesium	347.0	U	347.0	U	347.0	U	347.0	U	347.000	U	P
Manganese	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Mercury	.2	U	.2	U	.2	U			.200	U	CV
Nickel	29.0	U	29.0	U	29.0	U	29.0	U	29.000	U	P
Potassium	4178.0	U	4178.0	U	4178.0	U	4178.0	U	4178.000	U	P
Selenium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	F
Silver	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Sodium	309.0	U	309.0	U	309.0	U	309.0	U	354.570	B	P
Thallium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	F
Vanadium	13.0	U	13.0	U	13.0	U	13.0	U	13.000	U	P
Zinc	3.0	U	3.0	U	3.0	U	3.0	U	3.703	B	P
Cyanide	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	AS

FORM III - IN

U.S. EPA - CLP

3
BLANKS

Lab name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			84.0	U	84.0	U	84.0	U			P
Antimony			41.0	U	41.0	U	41.0	U			P
Arsenic			3.0	U	3.0	U					F
Barium			3.0	U	3.0	U	3.0	U			P
Beryllium			2.0	U	2.0	U	2.0	U			P
Cadmium			5.0	U	5.0	U	5.0	U			P
Calcium			843.0	U	843.0	U	843.0	U			P
Chromium			10.0	U	10.0	U	10.0	U			P
Cobalt			11.0	U	11.0	U	11.0	U			P
Copper			19.0	U	19.0	U	19.0	U			P
Iron			7.0	U	7.0	U	7.0	U			P
Lead			2.0	U	2.0	U	2.0	U			F
Magnesium			347.0	U	347.0	U	347.0	U			P
Manganese			3.0	U	3.0	U	3.0	U			P
Mercury											
Nickel			29.0	U	29.0	U	29.0	U			P
Potassium			4178.0	U	4178.0	U	4178.0	U			P
Selenium			3.0	U	3.0	U	3.0	U			F
Silver			10.0	U	10.0	U	10.0	U			P
Sodium			309.0	U	309.0	U	309.0	U			P
Thallium			2.0	U	2.0	U	2.0	U			F
Vanadium			13.0	U	13.0	U	13.0	U			P
Zinc			3.0	U	3.0	U	3.0	U			P
Cyanide			10.0	U	10.0	U	10.0	U			AS

FORM III - IN

U.S. EPA - CLP

3
BLANKS

Lab name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			84.0	U	84.0	U					P
Antimony			41.0	U	41.0	U					P
Arsenic											
Barium			3.0	U	3.0	U					P
Beryllium			2.0	U	2.0	U					P
Cadmium			5.0	U	5.0	U					P
Calcium			843.0	U	843.0	U					P
Chromium			10.0	U	10.0	U					P
Cobalt			11.0	U	11.0	U					P
Copper			19.0	U	19.0	U					P
Iron			7.0	U	7.0	U					P
Lead			2.0	U	2.0	U					F
Magnesium			347.0	U	347.0	U					P
Manganese			3.0	U	3.0	U					P
Mercury											
Nickel			29.0	U	29.0	U					P
Potassium			4178.0	U	4178.0	U					P
Selenium	3.0	U	3.0	U	3.0	U					F
Silver			10.0	U	10.0	U					P
Sodium			309.0	U	309.0	U					P
Thallium			2.0	U	2.0	U					F
Vanadium			13.0	U	13.0	U					P
Zinc			3.0	U	3.0	U					P
Cyanide			10.0	U							AS

FORM III - IN

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

ICP ID Number: P1 ICS Source: SPEX

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	500000	500000	502760	505000.0	101.0	527630	522040.0	104.4
Antimony	0	0	6	38.8		36	16.1	
Arsenic								
Barium	0	500	5	491.8	98.4	5	509.6	101.9
Beryllium	0	500	0	486.8	97.4	0	491.5	98.3
Cadmium	0	1000	-3	978.0	97.8	-4	1004.4	100.4
Calcium	500000	500000	489620	481320.0	96.3	503770	487030.0	97.4
Chromium	0	500	3	464.8	93.0	1	478.2	95.6
Cobalt	0	500	-6	454.0	90.8	-7	465.0	93.0
Copper	0	500	9	500.8	100.2	7	518.1	103.6
Iron	200000	200000	188280	185840.0	92.9	193570	188340.0	94.2
Lead								
Magnesium	500000	500000	497780	497400.0	99.5	522400	513850.0	102.8
Manganese	0	500	13	480.3	96.1	13	489.2	97.8
Mercury								
Nickel	0	1000	11	949.5	95.0	2	965.5	96.6
Potassium	0	0	1927	-220.8		-281	401.4	
Selenium								
Silver	0	1000	-14	989.4	98.9	-12	1019.2	101.9
Sodium	0	0	48	41.1		34	20.6	
Thallium								
Vanadium	0	500	-4	462.6	92.5	-13	477.6	95.5
Zinc	0	1000	-21	974.0	97.4	-22	999.8	100.0

FORM IV - IN 3/90

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MERA32S

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2256.5000		275.8200		2000.00	99.0		P
Antimony	75-125	547.4200		41.0000	U	500.00	109.5		P
Arsenic	75-125	51.3700		8.7100	B	40.00	106.6		F
Barium	75-125	2039.7999		19.4210	B	2000.00	101.0		P
Beryllium	75-125	53.5360		2.0000	U	50.00	107.1		P
Cadmium	75-125	57.5530		5.0000	U	50.00	115.1		P
Calcium									NR
Chromium		1120.8000		818.7200		200.00	151.0		P
Cobalt	75-125	504.5900		11.0000	U	500.00	100.9		P
Copper	75-125	252.9600		19.0000	U	250.00	101.2		P
Iron	75-125	1115.3000		165.9800		1000.00	94.9		P
Lead	75-125	9.2180		2.0000	U	20.00	46.1	N	F
Magnesium									NR
Manganese	75-125	553.5200		46.9590		500.00	101.3		P
Mercury	75-125	1.1740		.2000	U	1.00	117.4		CV
Nickel	75-125	510.2900		29.0000	U	500.00	102.1		P
Potassium									NR
Selenium	75-125	5.1470		15.0000	U	10.00	51.5	N	F
Silver	75-125	50.0350		10.0000	U	50.00	100.1		P
Sodium									NR
Thallium	75-125	34.2800		2.0000	U	50.00	68.6	N	F
Vanadium	75-125	513.6000		13.0000	U	500.00	102.7		P
Zinc	75-125	513.5700		4.3497	B	500.00	101.8		P
Cyanide	75-125	96.9104		10.0000	U	100.00	96.9		AS

Comments:
FORM 5A.01-PG 1 (SR)LAB ID:491260

ICP METALS (SSR)LAB ID:491249
AA METALS (SSR)LAB ID:491249
MERCURY (SSR)LAB ID:491249
CYANIDE (SSR)LAB ID:491253

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6
DUPLICATES

EPA SAMPLE NO.

MERA32D

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Matrix (water/soil): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	%RPD	Q	M
Aluminum	200.0	275.8200		195.3200	B	34.2		P
Antimony		41.0000	U	41.0000	U			P
Arsenic		8.7100	B	5.2370	B	49.8		F
Barium		19.4210	B	18.6490	B	4.1		P
Beryllium		2.0000	U	2.0000	U			P
Cadmium		5.0000	U	5.0000	U			P
Calcium		122700.0000		121150.0000		1.3		P
Chromium		818.7200		805.3900		1.6		P
Cobalt		11.0000	U	11.0000	U			P
Copper		19.0000	U	19.0000	U			P
Iron	100.0	165.9800		59.6080	B	94.3	*	P
Lead		2.0000	U	2.0000	U			F
Magnesium	5000.0	9969.5996		9675.2998		3.0		P
Manganese	15.0	46.9590		45.9970		2.1		P
Mercury		.2000	U	.2000	U			CV
Nickel		29.0000	U	29.0000	U			P
Potassium	5000.0	15673.0000		15392.0000		1.8		P
Selenium		15.0000	U	3.0000	U			F
Silver		10.0000	U	10.0000	U			P
Sodium	5000.0	23010.0000		22246.0000		3.4		P
Thallium		2.0000	U	2.0000	U			F
Vanadium		13.0000	U	13.0000	U			P
Zinc		4.3497	B	4.7219	B	8.2		P
Cyanide		10.0000	U	10.0000	U			AS

FORM VI - IN

3/90

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No : SDG No.: MERA30

ICP ID Number: Date: 4/15/92

Flame AA ID Number: V2

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	.2	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:
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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

ICP ID Number: P1 Date: 4/15/92

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	84.0	P
Antimony	206.80		60	41.0	P
Arsenic			10		NR
Barium	493.40		200	3.0	P
Beryllium	313.00		5	2.0	P
Cadmium	228.80		5	5.0	P
Calcium	315.80		5000	843.0	P
Chromium	267.70		10	10.0	P
Cobalt	228.60		50	11.0	P
Copper	324.70		25	19.0	P
Iron	259.90		100	7.0	P
Lead			3		NR
Magnesium	279.00		5000	347.0	P
Manganese	257.60		15	3.0	P
Mercury			0.2		NR
Nickel	231.60		40	29.0	P
Potassium	766.40		5000	4178.0	P
Selenium			5		NR
Silver	328.00		10	10.0	P
Sodium	588.90		5000	309.0	P
Thallium			10		NR
Vanadium	292.40		50	13.0	P
Zinc	213.80		20	3.0	P

Comments:
FORM 10 - PAGE 2

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

ICP ID Number: Date: 4/15/92

Flame AA ID Number:

Furnace AA ID Number: A6

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic	197.30	BS	10	3.0	F
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium	196.00	BS	5	3.0	F
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:
FORM 10 - PAGE 3

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

ICP ID Number: Date: 4/15/92

Flame AA ID Number:

Furnace AA ID Number: A2

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium	196.00	BS	5	3.0	F
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:
FORM 10 - PAGE 4

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

ICP ID Number: Date: 4/15/92

Flame AA ID Number:

Furnace AA ID Number: A1

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	283.30	BS	3	2.0	F
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium	276.80	BS	10	2.0	F
Vanadium			50		NR
Zinc			20		NR

Comments:
FORM 10 - PAGE 5

FORM X - IN

3/90

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No. (2) CERCLIS No. OH

Case No. 19026 Site Name Location: Satralloy

Contractor or EPA Lab: Compuchem Data User: PRC

No. of Samples: 4 Date Samples or Data Received: 5-28-92

Have Chain-of-Custody records been received? YES____ NO ✓
Have traffic reports or packing lists been received? YES____ NO ✓
If no, are traffic report or packing list numbers written on the chain-of-custody record? YES____ NO____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? YES ✓ NO____
No. of samples claimed: 4 No. of samples received: 4

Received by: A.D. Harris Date: 5-28-92

Received by LSSS: DMM Date: 5-28-92

Review started: 6/12/92 Reviewer Signature: M. Fletcher

Total time spent on review: 4 Date review completed: 6/10/92 +0.5 LY

Copied by: Dorothy Anderson Date: 6-22-92

Mailed to user by: Lynette Burnett Date: 7-13-92

DATA USERS:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, 5SCRL

Data received by: Mildred Yarbrough Date: JUL 14 1992

Data review received by: _____ Date: _____
Inorganic Data Complete[ ] Suitable for Intended Purpose[ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose[ ] list
Dioxin Data Complete [ ] Suitable for Intended Purpose[ ] prblms
SAS Data Complete [ ] Suitable for Intended Purpose[ ] below.
PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files Date: _____

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

FILED

DATE: JUN 16 1992

SUBJECT: Review of Region 5 data for SATRALLOY SSI

FROM: Charles Elly, Director Chuck Elly
Region 5 Central Regional Laboratory

To: Data User:

Attached are the results for:

CRL Data Set Numbers: 5F0920
Sample Numbers: 92ZF90501-504, 92ZF90D01, R01
Parameter(s): CN, Hg
Laboratory: CRL

Results Status:

(X) DATA ACCEPTABLE FOR USE*
( ) DATA QUALIFIED AS TO USE
( ) DATA UNACCEPTABLE FOR USE

* For data acceptability requirements, refer to the method capability statement for the methods referenced

Comments by the Quality Control Coordinator

If there are any questions regarding the data, refer them to James Adams the Quality Control Coordinator, at 353-9604

Please sign and date this form below and return it with any comments

TRANSMITTED BY

Sylvia Crittin
Data Management Coordinator
Region 5 Central Regional Laboratory
(5SCRL)

JUN 16 1992

U.S. EPA CENTRAL
REGIONAL LAB

RECEIVED BY/DATE Mildred Yarbrough JUN 19 1992
Comments

DATA SET	SITE	DU/ACT.
SF0920	SATRALLOY SSI	TFA

SAMPLES	PARAMETER(S)
92ZF90S0-S04, D01, R01	CN, Hg

SAMPLED	RECEIVED	DUE	LAB
4/28/92	4/29/92	5/20/92	CRL

SHIPPED	DATA RECEIVED	CONTRACT
	N/A	

Comments By Reviewer:

(X) REVIEWED ( ) UNREVIEWED TEAM LEADER/DATE Frances A. Aunya / 6-9-92

(X) REVIEWED ( ) UNREVIEWED James W. Adams, Jr. 6/9/92
SECTION CHIEF/DATE

(X) REVIEWED ( ) UNREVIEWED James W. Adams, Jr. 6/9/92
QC COORDINATOR/DATE

REVIEWED BY CONTRACT COORDINATOR/DATE

RECEIVED 6/16/92 TRANSMITTED 6/16/92 DATA MANAGEMENT COORDINATOR Griffin

CASE NARRATIVE SFO920 - MERCURY ASSAY

The CS-1 recoveries for the organic mercury AQCs were high (1.9 µg/L) at the beginning and the end of the assay run. The recoveries for inorganic AQCs, CS-2, the EPA References, WP 1183, and the matrix spike were all acceptable. The EPA References were used for information only. The limits used for the reference samples are the 95% confidence limits established for WP 1183, concentration 1. All sample concentrations were below IDL. CRL was notified of this, and ESAT was instructed by CRL that the results were acceptable, for the above reasons.

James Redlin

5/18/92

James Redlin

D920000920

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: MINERALS · NUTRIENTS

29-5JZZ-
DIVISION/BRANCH Superfund : PRC SAMPLE DATE 4/28/92 LAB ARRIVAL DATE 4/29/92 DUE DATE 5/20/92

DU NUMBER TFA DATA SET NUMBER 0920 STUDY SATRALLOY SSI PRIORITY N CONTRACTOR CRL

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER PHENOLICS UG PHENOL/L MIN 24018	WATER CYANIDE UG CN/L MIN 24019	WATER GROSS ALPHA P CI/L MIN 76020	WATER CR+6 UG CR+6/L MIN 24018	WATER MERCURY UG HG/L MIN 24717
92ZF90 S01	RW1 5-046654 5-046655		X 5 U			
S01	RW1 5-046656 5-046657					X 0.1 U
D01	RW1D 5-046666		X 5 U			
D01	RW1D 5-046667					X 0.1 U
S02	RW2 5-046676		X 5 U			
S02	RW2 5-046677					X 0.1 U
S03	RW3 5-046686		X 5 U			
S03	RW3 5-046687					X 0.1 U
S04	RW4 5-046696		X 5 U			
S04	RW4 5-046697					X 0.1 U
R01	B-1 5-046706		X 5 U			
R01	B-1 5-046707	James Rodlin 5/5/92				X 0.1 U
		James Rodlin 5/15/92			James Rodlin 5/15/92	
		Assayed by EPA Method			James Rodlin 5/15/92	
		335.3 NS, Total, Colormetric,			Assayed by EPA Method	
		Automated UV			245.2 * DNS, Cold Vapor,	
					Automated	

FILED

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No. _____ CERCLIS No. (OH)

Case No. 19026 Site Name Location: Scitrallory

Contractor or EPA Lab: Wadsworth Data User: PRC

No. of Samples: 15 Date Samples or Data Received: June 4-92

Have Chain-of-Custody records been received? YES____ NO ✓
Have traffic reports or packing lists been received? YES____ NO ✓
If no, are traffic report or packing list numbers written on the chain-of-custody record? YES____ NO____
If no, which traffic report or packing list numbers are missing?

_____ _____ _____ _____
_____ _____ _____ _____

Are basic data forms in? YES ✓ NO____
No. of samples claimed: 15 No. of samples received: 15

Received by: A.D. Harris Date: June 4-92

Received by LSSS: DMM Date: 6-4-92

Review started: 6/10/92 Reviewer Signature: Stephanie N Tohin

Total time spent on review: 21 hrs Date review completed: 6/18/92

Copied by: Dorothy Anderson Date: 6-27-92

Mailed to user by: _____ Date: _____

DATA USERS:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, SSCRL

Data received by: Mildred Jackrough Date: JUL 02 1992

Data review received by: _____ Date: _____
Inorganic Data Complete[ ] Suitable for Intended Purpose[ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose[ ] list
Dioxin Data Complete [ ] Suitable for Intended Purpose[ ] prblms
SAS Data Complete [ ] Suitable for Intended Purpose[ ] below.
PROBLEMS: Please indicate reasons why data are not suitable for your uses.

_____

_____

Received by Data Mgmt. Coordinator for Files Date: _____

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name:Wadsworth/ALERT Labs Contract:68-DI-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

GC Column(1):RTX1701 ID: 0.53 (mm) GC Column(2):RTX5 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	EQK26	130	80	100	105			0
02	EQK26MS	105	80	75	85			0
03	EQK26MSD	175*	90	80	85			1
04	EQK27	155*	100	90	100			1
05	EQK28	150	95	80	90			0
06	PBLKI	90	80	100	105			0
07	PIBLKX10	105	105	65	70			0
08	PIBLKX11	105	110	60	70			0
09	PIBLKX12	105	110	60	70			0
10	PIBLKX9	105	105	60	65			0
11								
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22								
23								
24								
25								
26								
27								
28								
29								
30								

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogates diluted out

FORM II PEST-1 3/90

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name:Wadsworth/ALERT Labs Contract:68-DI-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

GC Column(1):RTX1701 ID: 0.53 (mm) GC Column(2):RTX5 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	EQK01	107	87	343*	82			1
02	EQK01DL	107	118	378*	118			1
03	EQK02	110	104	122	116			0
04	EQK02MS	110	91	128	122			0
05	EQK02MSD	110	91	122	116			0
06	EQK08	102	71	106	138			0
07	EQK09	95	70	100	81			0
08	PBLKII	105	90	98	98			0
09								
10								
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28								
29								
30								

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogates diluted out

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:Wadsworth/ALERT Labs Contract:68-DI-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix Spike - EPA Sample No.: EQK26

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC(Lindane)	0.50	0.0	0.37	74	56-123
Heptachlor	0.50	0.0	0.33	66	40-131
Aldrin	0.50	0.0	0.32	64	40-120
Dieldrin	1.0	0.0	0.73	73	52-126
Endrin	1.0	0.0	0.76	76	56-121
4,4'-DDT	1.0	0.0	0.82	82	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC(Lindane)	0.50	0.41	82	10	15	56-123
Heptachlor	0.50	0.39	78	17	20	40-131
Aldrin	0.50	0.38	76	17	22	40-120
Dieldrin	1.0	0.81	81	10	18	52-126
Endrin	1.0	0.85	85	11	21	56-121
4,4'-DDT	1.0	0.90	90	9	27	38-127

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

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS:

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:Wadsworth/ALERT Labs Contract:68-DI-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix Spike - EPA Sample No.: EQK02

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC(Lindane)	21.	0.0	21.	100	46-127
Heptachlor	21.	0.0	22.	105	35-130
Aldrin	21.	0.0	21.	100	34-132
Dieldrin	41.	0.0	43.	105	31-134
Endrin	41.	0.0	46.	112	42-139
4,4'-DDT	41.	0.0	55.	134	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC(Lindane)	21.	21.	100	0	50	46-127
Heptachlor	21.	22.	105	0	31	35-130
Aldrin	21.	20.	95	5	43	34-132
Dieldrin	41.	43.	105	0	38	31-134
Endrin	41.	46.	112	0	45	42-139
4,4'-DDT	41.	55.	134	0	50	23-134

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

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKI

Lab Name:Wadsworth/ALERT Labs Contract:68-DI-0085

Lab Code:WADS Case No.19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water)WATER Lab Sample ID: 90430

Sample wt/vol: 1000(g/ml)ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: / /

Extraction: (SepF/Cont/Sonc)CONT Date Extracted: 4/30/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 5/18/92

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N)N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.005	J
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.05	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKII

Lab Name:Wadsworth/ALERT Labs Contract:68-DI-0085

Lab Code:WADS Case No.19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water)SOIL Lab Sample ID: 92504

Sample wt/vol: 30(g/ml)G Lab File ID:

% Moisture: 0 decanted: (Y/N) N Date Received: / /

Extraction: (SepF/Cont/Sonc)SONC Date Extracted: 5/04/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 5/19/92

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N)Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC(Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	0.087	JP
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170.	U
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	67.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKI

Lab Name:Wadsworth/ALERT Labs Contract:68-DI-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Lab Sample ID:90430 Lab File ID:

Matrix:(soil/water) WATER Extraction:(SepF/Cont/Sonc)CONT

Sulfur Cleanup: (Y/N) N Date Extracted: 4/30/92

Date Analyzed (1): 5/18/92 Date Analyzed (2): 5/18/92

Time Analyzed (1):2223 Time Analyzed (2):2223

Instrument ID (1):HP5890XA Instrument ID (2):HP5890XB

GC Column (1):RTX1701 ID: 0.53(mm) GC Column (2):RTX5 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EQK26	60304	5/18/92	5/18/92
02	EQK26MS	60304MS	5/18/92	5/18/92
03	EQK26MSD	60304MSD	5/19/92	5/19/92
04	EQK27	60305	5/19/92	5/19/92
05	EQK28	60306	5/19/92	5/19/92
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
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21				
22				
23				
24				
25				
26				

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKII

Lab Name:Wadsworth/ALERT Labs Contract:68-DI-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Lab Sample ID:92504 Lab File ID:

Matrix:(soil/water) SOIL Extraction:(SepF/Cont/Sonc)SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 5/04/92

Date Analyzed (1): 5/19/92 Date Analyzed (2): 5/19/92

Time Analyzed (1):0749 Time Analyzed (2):0749

Instrument ID (1):HP5890XA Instrument ID (2):HP5890XB

GC Column (1):RTX1701 ID: 0.53(mm) GC Column (2):RTX5 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EQK01	60014	5/19/92	5/19/92
02	EQK01DL	60014DL	5/19/92	5/19/92
03	EQK02	60020	5/19/92	5/19/92
04	EQK02MS	60020MS	5/19/92	5/19/92
05	EQK02MSD	60020MSD	5/19/92	5/19/92
06	EQK08	60016	5/19/92	5/19/92
07	EQK09	60017	5/19/92	5/19/92
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COMMENTS:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK01

Lab Name:Wadsworth/ALERT Labs Contract:68-DI-0085

Lab Code:WADS Case No.19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water)SOIL Lab Sample ID: 60014

Sample wt/vol: 30(g/ml)G Lab File ID:

% Moisture: 32 decanted: (Y/N) N Date Received: 4/29/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted: 5/04/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 5/19/92

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N)Y pH: 9.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	2.5	U ~~P~~
319-85-7	beta-BHC	2.5	U
319-86-8	delta-BHC	2.5	U
58-89-9	gamma-BHC(Lindane)	2.5	U
76-44-8	Heptachlor	2.5	U
309-00-2	Aldrin	2.5	U
1024-57-3	Heptachlor epoxide	2.5	U
959-98-8	Endosulfan I	2.5	U
60-57-1	Dieldrin	4.9	U
72-55-9	4,4'-DDE	SF 49 ~~25~~ ~~1.1~~	~~JP~~ U
72-20-8	Endrin	49 ~~0.83~~	~~JP~~ U
33213-65-9	Endosulfan II	4.9	U
72-54-8	4,4'-DDD	4.9	U
1031-07-8	Endosulfan sulfate	4.9	U ~~P~~
50-29-3	4,4'-DDT	4.9	U ~~P~~
72-43-5	Methoxychlor	25.	U ~~P~~
53494-70-5	Endrin ketone	3.8	JP
7421-93-4	Endrin aldehyde	4.9	U
5103-71-9	alpha-Chlordane	2.5	U
5103-74-2	gamma-Chlordane	2.5	U
8001-35-2	Toxaphene	250.	U
12674-11-2	Aroclor-1016	49.	U
11104-28-2	Aroclor-1221	98.	U
11141-16-5	Aroclor-1232	49.	U
53469-21-9	Aroclor-1242	49.	U
12672-29-6	Aroclor-1248	49.	U
11097-69-1	Aroclor-1254	49.	U
11096-82-5	Aroclor-1260	49.	U

SF 6/14/92

JKG 5/21/92

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK01DL

Lab Name:Wadsworth/ALERT Labs Contract:68-DI-0085

Lab Code:WADS Case No.19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water)SOIL Lab Sample ID: 60014DL

Sample wt/vol: 30(g/ml)G Lab File ID:

% Moisture: 32 decanted: (Y/N) N Date Received: 4/29/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted: 5/04/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 5/19/92

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N)Y pH: 9.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	25.	U
319-85-7	beta-BHC	25.	U
319-86-8	delta-BHC	25.	U
58-89-9	gamma-BHC(Lindane)	25.	U
76-44-8	Heptachlor	25.	U
309-00-2	Aldrin	25.	U
1024-57-3	Heptachlor epoxide	25.	U
959-98-8	Endosulfan I	25.	U
60-57-1	Dieldrin	49.	U
72-55-9	4,4'-DDE	49.	U
72-20-8	Endrin	49.	U
33213-65-9	Endosulfan II	49.	U
72-54-8	4,4'-DDD	49.	U
1031-07-8	Endosulfan sulfate	49.	U
50-29-3	4,4'-DDT	49.	U
72-43-5	Methoxychlor	250.	U
53494-70-5	Endrin ketone	4.6	DJP
7421-93-4	Endrin aldehyde	49.	U
5103-71-9	alpha-Chlordane	25.	U
5103-74-2	gamma-Chlordane	25.	U
8001-35-2	Toxaphene	2500.	U
12674-11-2	Aroclor-1016	490.	U
11104-28-2	Aroclor-1221	980.	U
11141-16-5	Aroclor-1232	490.	U
53469-21-9	Aroclor-1242	490.	U
12672-29-6	Aroclor-1248	490.	U
11097-69-1	Aroclor-1254	490.	U
11096-82-5	Aroclor-1260	490.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK02

Lab Name:Wadsworth/ALERT Labs Contract:68-DI-0085

Lab Code:WADS Case No.19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water)SOIL Lab Sample ID: 60020

Sample wt/vol: 30(g/ml)G Lab File ID:

% Moisture: 19 decanted: (Y/N) N Date Received: 4/29/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted: 5/04/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 5/19/92

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N)Y pH: 6.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	0.18	JP
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC(Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	~~4.1~~ ~~0.40~~	~~JP~~ U ST 6/12/92
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21.	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210.	U
12674-11-2	Aroclor-1016	41.	U
11104-28-2	Aroclor-1221	82.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	41.	U
11096-82-5	Aroclor-1260	41.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK08

Lab Name:Wadsworth/ALERT Labs Contract:68-DI-0085

Lab Code:WADS Case No.19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water)SOIL Lab Sample ID: 60016

Sample wt/vol: 30(g/ml)G Lab File ID:

% Moisture: 53 decanted: (Y/N) N Date Received: 4/29/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted: 5/04/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 5/19/92

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N)Y pH:10.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	3.5	U
319-85-7	beta-BHC	3.5	U
319-86-8	delta-BHC	3.5	U
58-89-9	gamma-BHC(Lindane)	3.5	U
76-44-8	Heptachlor	3.5	U P
309-00-2	Aldrin	3.5	U
1024-57-3	Heptachlor epoxide	3.5	U P
959-98-8	Endosulfan I	3.5	U P
60-57-1	Dieldrin	7.1	U
72-55-9	4,4'-DDE	1.5	JP
72-20-8	Endrin	7.1	U
33213-65-9	Endosulfan II	7.1	U
72-54-8	4,4'-DDD	7.1	U
1031-07-8	Endosulfan sulfate	7.1	U
50-29-3	4,4'-DDT	7.1	U
72-43-5	Methoxychlor	35.	U
53494-70-5	Endrin ketone	7.1	U
7421-93-4	Endrin aldehyde	7.1	U
5103-71-9	alpha-Chlordane	0.54	JP
5103-74-2	gamma-Chlordane	3.5	U
8001-35-2	Toxaphene	350.	U
12674-11-2	Aroclor-1016	71.	U
11104-28-2	Aroclor-1221	140.	U
11141-16-5	Aroclor-1232	71.	U
53469-21-9	Aroclor-1242	71.	U
12672-29-6	Aroclor-1248	71.	U
11097-69-1	Aroclor-1254	71.	U
11096-82-5	Aroclor-1260	71.	U

JG 5/21/92

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK09

Lab Name:Wadsworth/ALERT Labs Contract:68-DI-0085

Lab Code:WADS Case No.19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water)SOIL Lab Sample ID: 60017

Sample wt/vol: 30(g/ml)G Lab File ID:

% Moisture: 64 decanted: (Y/N) N Date Received: 4/29/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted: 5/04/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 5/19/92

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N)Y pH:10.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	4.6	U
319-85-7	beta-BHC	4.6	U
319-86-8	delta-BHC	4.6	U
58-89-9	gamma-BHC(Lindane)	4.6	U
76-44-8	Heptachlor	4.6	U
309-00-2	Aldrin	4.6	U
1024-57-3	Heptachlor epoxide	4.6	U ~~P~~
959-98-8	Endosulfan I	4.6	U
60-57-1	Dieldrin	9.3	U
72-55-9	4,4'-DDE	46 ~~0.52~~	~~JP~~ U
72-20-8	Endrin	9.3	U
33213-65-9	Endosulfan II	9.3	U
72-54-8	4,4'-DDD	9.3	U
1031-07-8	Endosulfan sulfate	9.3	U
50-29-3	4,4'-DDT	9.3	U
72-43-5	Methoxychlor	46.	U
53494-70-5	Endrin ketone	9.3	U
7421-93-4	Endrin aldehyde	9.3	U
5103-71-9	alpha-Chlordane	4.6	U
5103-74-2	gamma-Chlordane	4.6	U
8001-35-2	Toxaphene	460.	U
12674-11-2	Aroclor-1016	93.	U
11104-28-2	Aroclor-1221	190.	U
11141-16-5	Aroclor-1232	93.	U
53469-21-9	Aroclor-1242	93.	U
12672-29-6	Aroclor-1248	93.	U
11097-69-1	Aroclor-1254	93.	U
11096-82-5	Aroclor-1260	93.	U

JKG 5/21/92

TC 11/12/92

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK26

Lab Name:Wadsworth/ALERT Labs Contract:68-DI-0085

Lab Code:WADS Case No.19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water)WATER Lab Sample ID: 60304

Sample wt/vol: 1000(g/ml)ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 4/30/92

Extraction: (SepF/Cont/Sonc)CONT Date Extracted: 4/30/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 5/18/92

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N)N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	5 4/12/92 0.05	U
1024-57-3	Heptachlor epoxide	CC5 ~~0.004~~	JPB 5 4/12/92
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.05	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK27

Lab Name:Wadsworth/ALERT Labs Contract:68-DI-0085

Lab Code:WADS Case No.19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water)WATER Lab Sample ID: 60305

Sample wt/vol: 1000(g/ml)ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 4/30/92

Extraction: (SepF/Cont/Sonc)CONT Date Extracted: 4/30/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 5/19/92

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N)N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.05	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK28

Lab Name:Wadsworth/ALERT Labs Contract:68-DI-0085

Lab Code:WADS Case No.19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water)WATER Lab Sample ID: 60306

Sample wt/vol: 1000(g/ml)ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 4/30/92

Extraction: (SepF/Cont/Sonc)CONT Date Extracted: 4/30/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 5/19/92

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N)N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.05	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No._____ CERCLIS No. (OH)

Case No. 19026 Site Name Location: Satralloy

Contractor or EPA Lab: Datachem Data User: PRC

No. of Samples: 14 Date Samples or Data Received: June 1, 1992

Have Chain-of-Custody records been received? YES____ NO ✓
Have traffic reports or packing lists been received? YES____ NO ✓
If no, are traffic report or packing list numbers written on the chain-of-custody record? YES____ NO____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? YES ✓ NO____
No. of samples claimed: 14 No. of samples received: 14

Received by: Lynette Burnett Date: June 1, 1992

Received by LSSS: DMM Date: 6-1-92

Review started: 6/9/92 Reviewer Signature: J. Rollin

Total time spent on review: 17 Date review completed: 6-15-92

Copied by: Dorothy Anderson (to 5 by 6-18-92) Date: 7-6-92

Mailed to user by: A. D. Harris Date: 7-13-92

DATA USERS:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, 5SCRL

Data received by: Mildred Jackson Date: JUL 14 1992

Data review received by:_____ Date:_____
Inorganic Data Complete[ ] Suitable for Intended Purpose[ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose[ ] list
Dioxin Data Complete [ ] Suitable for Intended Purpose[ ] prblms
SAS Data Complete [ ] Suitable for Intended Purpose[ ] below.
PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files Date:_____

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK26

FILED

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:60304

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: EQK26

Level: (low/med) LOW Date Received: 4/30/92

% Moisture: 0 decanted: N Date Extracted: 4/30/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 5/07/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L_	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
10604-60-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
111-91-1	bis(2-chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	10.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK26

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:60304

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: EQK26

Level: (low/med) LOW Date Received: 4/30/92

% Moisture: 0 decanted: N Date Extracted: 4/30/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 5/07/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L_	Q
51-28-5	2,4-Dinitrophenol	25.	U
100-02-7	4-Nitrophenol	25.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	25.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
86-74-8	Carbazole	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-ethylhexyl)phthalate	10.	U
117-84-0	Di-n-Octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from Diphenylamine

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK26

Lab Name: WADSWORTH/ALERT Contract: 68-D1-0085

Lab Code: WADS Case No.: 19026 SAS No.: SDG No.: EQK01

Matrix: (soil/water) WATER Lab Sample ID: 60304

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: EQK26

Level: (low/med) LOW Date Received: 4/30/92

% Moisture: 0 decanted: (Y/N) N Date Extracted: 4/30/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 5/07/92

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs Found: ~~0~~ 1 T 5/22/92

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1. 111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	5.9	9.	~~JBN~~ u
2.				
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RT 6/11/92

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK27

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:60305

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: EQK27

Level: (low/med) LOW Date Received: 4/30/92

% Moisture: 0 decanted: N Date Extracted: 4/30/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 5/07/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L_	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
10604-60-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
111-91-1	bis(2-chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	10.	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK27

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:60305

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: EQK27

Level: (low/med) LOW Date Received: 4/30/92

% Moisture: 0 decanted: N Date Extracted: 4/30/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 5/07/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L_	Q
51-28-5	2,4-Dinitrophenol	25.	U
100-02-7	4-Nitrophenol	25.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	25.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
86-74-8	Carbazole	10.	U
84-74-2	Di-n-butylphthalate	10 ~~0.6~~	JB
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-ethylhexyl)phthalate	10.	U
117-84-0	Di-n-Octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from Diphenylamine

000556

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK27

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:60305

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: EQK27

Level: (low/med) LOW Date Received: 4/30/92

% Moisture: 0 decanted: (Y/N) N Date Extracted: 4/30/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 5/07/92

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs Found: ~~0~~ 1 TSL 2/92

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L_

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.	111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	5.9	8.	~~JBN~~ u
2.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK28

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:60306

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: EQK28

Level: (low/med) LOW Date Received: 4/30/92

% Moisture: 0 decanted: N Date Extracted: 4/30/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 5/07/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L_	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
10604-60-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
111-91-1	bis(2-chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	10.	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK28

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:60306

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: EQK28

Level: (low/med) LOW Date Received: 4/30/92

% Moisture: 0 decanted: N Date Extracted: 4/30/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 5/07/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L_	Q
51-28-5	2,4-Dinitrophenol	25.	U
100-02-7	4-Nitrophenol	25.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	25.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
86-74-8	Carbazole	10.	U
84-74-2	Di-n-butylphthalate	10 ~~0.8~~	JB
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-ethylhexyl)phthalate	10.	U
117-84-0	Di-n-Octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK28

Lab Name: WADSWORTH/ALERT Contract: 68-D1-0085

Lab Code: WADS Case No.: 19026 SAS No.: SDG No.: EQK01

Matrix: (soil/water) WATER Lab Sample ID: 60306

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: EQK28

Level: (low/med) LOW Date Received: 4/30/92

% Moisture: 0 decanted: (Y/N) N Date Extracted: 4/30/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 5/07/92

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0

Number TICs Found: ~~0~~ 1 #5/22/92 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1. 111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	5.9	9.	~~JBN~~ u
2.				
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ENVIROFORMS/INORGANIC CLP

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10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

ICP ID Number: Date: 04/06/92

Flame AA ID Number:

Furnace AA ID Number: AAS-ZED

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		NR
Antimony			60.0		NR
Arsenic			10.0		NR
Barium			200.0		NR
Beryllium			5.0		NR
Cadmium			5.0		NR
Calcium			5000.0		NR
Chromium			10.0		NR
Cobalt			50.0		NR
Copper			25.0		NR
Iron			100.0		NR
Lead	283.30	BZ	3.0	1.0	FM
Magnesium			5000.0		NR
Manganese			15.0		NR
Mercury			0.2		NR
Nickel			40.0		NR
Potassium			5000.0		NR
Selenium			5.0		NR
Silver			10.0		NR
Sodium			5000.0		NR
Thallium			10.0		NR
Vanadium			50.0		NR
Zinc			20.0		NR

Comments:

FORM X - IN

ENVIROFORMS/INORGANIC CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

ICP ID Number: Date: 04/08/92

Flame AA ID Number:

Furnace AA ID Number: AAS-ZEE

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		NR
Antimony			60.0		NR
Arsenic	193.70	BZ	10.0	1.0	FM
Barium			200.0	.	NR
Beryllium			5.0		NR
Cadmium			5.0		NR
Calcium			5000.0		NR
Chromium			10.0		NR
Cobalt			50.0		NR
Copper			25.0		NR
Iron			100.0		NR
Lead			3.0		NR
Magnesium			5000.0		NR
Manganese			15.0		NR
Mercury			0.2		NR
Nickel			40.0		NR
Potassium			5000.0		NR
Selenium			5.0		NR
Silver			10.0		NR
Sodium			5000.0		NR
Thallium			10.0		NR
Vanadium			50.0		NR
Zinc			20.0		NR

Comments:

FORM X - IN

LABORATORY: COMPUCHEM CASE: 19026(2) SDG: MERA30

The laboratory's portion of case 19026(2) contains 4 low level water sample assayed for total metals and total cyanide. The following narrative lists the out of control audits and their possible effects on the results.

EVIDENTIAL AUDIT: The lab lists only the SDG for where the originals for the airbill, DC1, traffic report/chain of custody, and samples tags can be found. However, the reviewer located the the original information in case 19026(1) SDG MERA13. The CN raw data can be found in case 19026(1) SDG MERA13.

ICP ANALYSES: The duplicate audit of Fe(CRDL) is out of control. The preparation blank was found to contain Fe(15.11 ug/l). The sample results MERA31, 33 for Fe are estimated(J) due to contamination and poor precision. The remaining Fe data are estimated(J) due to poor precision.

The preparation blank was found to contain Na(354.570 ug/l) and Zn(3.703 ug/l). The Na result of MERA33 and the Zn results of MERA 30, 32, and 33 are estimated(J) due to contamination.

The lab did not flag the matrix spike recovery of Cr(151%) since the sample result was 4X greater than the amount of spike added. All Cr data are acceptable.

The duplicate audit of Al(34.2% RPD) was not flagged by the lab since the technical criteria(CRDL) for waters was not exceeded. All Al data are acceptable.

GFAA ANALYSES: The duplicate audit of As(49.8% RPD) was not flagged by the lab since the technical criteria(CRDL) was not exceeded by the lab. As data is not qualified based on the duplicate audit. The lab flagged "W" on MERA30-32 for As. MERA32 is estimated(J) and MERA30, 31 are estimated(UJ) due to interference for As.

The lab flagged "W" on MERA30-32 for Pb. The matrix spike recovery for Pb(46.1%) is out of control. The Pb result on MERA33 is estimated(UJ) due to a possible elevated detection limit. The remaining Pb results are estimated(UJ) due to interference and a possible elevated detection limit.

The matrix spike recovery of Se(51.5%) is out of control. The lab flagged "W" on MERA32 for Se. Sample result on MERA32 for Se is estimated(UJ) due to interference and a possible elevated detection limit. The remaining Se results are estimated(UJ) due to a possible elevated detection limit.

M. Fletcher

M. Fletcher LOCKHEED/ESAT DATE: 6/16/92

NARRATIVE

CONTRACTOR: WADSWORTH
CASE: 19026
SDG: EQK01

Below is a summary of the out-of-control audits and the possible effect on the data for this case.

1.HOLDING TIME

The laboratory received four (4) water samples and eleven (11) soil samples in good condition for organic analysis. Samples EQK03, EQK04, EQK05, EQK06, EQK07, EQK10, EQK11 and EQK29 were analyzed for VOAs only. The remaining samples were analyzed for full organic analysis. The VOA samples were analyzed within the holding time of fourteen (14) days for the water and soil samples; therefore, the results are acceptable. The SVOA and Pest/PCB samples were extracted within the holding time of seven and fourteen days for the water and soil samples respectively; therefore, the results are acceptable.

2.GC/MS TUNING AND GC PERFORMANCE

GC/MS tuning complied with the mass list and ion abundance criteria for BFB and DFTPP.

DDT and Endrin degradation check using Performance Evaluation Mix of RTX-1701 and RTX-5 columns were acceptable (<20%).

Retention time for DDT met the required minimum retention time (>12 minutes) criteria for both columns.

The Florisil Cartridge Check and Resolution Check met the QC criteria.

For the GPC calibration, the percent recoveries for gamma-BHC, heptachlor, 4,4'-DDT were reported as 114%, 111% and 118% respectively. The QC limits for the above compounds are 80% - 110%. No qualification are needed because the recoveries are within 10% of the upper limits.

Reviewed by: Steffanie N. Tobin__Lockheed/ESAT

Date:__June 15, 1992__

NARRATIVE

CONTRACTOR: WADSWORTH
CASE: 19026
SDG: EQK01

3.CALIBRATION

Initial and continuing calibration standards of VOA, SVOA and Pest/PCB were evaluated for the Target Compounds List (TCLs) and outliers were recorded on the outlier forms included as a part of this narrative.

4.METHOD BLANK

VBLK2 is the low level water method blank for VOAs. VBLK3 and VBLK4 are the low level soil method blanks for the VOA fraction. The water method blank contained 2-butanone. 2-Butanone is the common laboratory contaminant; therefore, the presence of 2-butanone in the associated samples is flagged as non-detected (U) when the sample results are less than 10X the blank results. Please refer to For IV VOAs for the lists of associated samples.

For the SVOA fraction, SBLK1 is the water method blank. SBLK2 and SBLK3 are the low level soil method blanks. Di-n-butylphthalate was detected in all SVOA method blanks. In addition, SBLK1 contained bis(2-ethylhexyl)phthalate and 2 TICs. SBLK2 contained bis(2-ethylhexyl)phthalate and 1 TIC. SBLK3 contained 2 TICs. Di-n-butylphthalate and bis(2-ethylhexyl)phthalate are the common laboratory contaminants; therefore, the presence of these two compounds in the associated samples is flagged as non-detected (U) when the sample results are less than 10X the blank results. Please, refer to Form IV SVOAs for the lists of associated samples.

For the Pest/PCB fraction, PBLKI and PBLKII are the method blanks for the water and soil samples respectively. Heptachlor epoxide was detected in both method blanks. Heptachlor epoxide is not a common laboratory contaminant. The presence of this compound in the associated samples is flagged as non-detected (U) when the sample results are less than 5X the blank results.

Reviewed by: Steffanie N. Tobin Lockheed/ESAT

Date: June 15, 1992

5.SURROGATE RECOVERY

The surrogate recoveries for VOA fraction were well within the QC limits.

For the SVOA fraction, the recoveries of S6 in EQK01, EQK08, EQK08RE and EQK09 were less or equal 10%. The recoveries of S5 in samples EQK08, EQK09 were outside the QC limits; therefore, the positive results for the acid fraction of samples EQK01, EQK08, EQK08RE and EQK09 are flagged as estimated (J) and non-detected as unusable (R).

For the Pest/PCB fraction, the recoveries of TCX1 in soil samples EQK26MSD, EQK27 were outside the QC limits. The recoveries of DCB1 in water samples EQK01 and EQK01DL were outside the QC limits. Therefore, the positive results for the EQK26MSD, EQK27, EQK01 and EQK01DL are flagged as estimated (J) and non-detected (UJ).

6.MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Water sample EQK26 was used for the low level water matrix spike/spike duplicate for the VOA, SVOA and Pest/PCB analysis. Soil sample EQK02 was used for the low level soil matrix spike/spike duplicate for the VOA, SVOA and Pest/PCB analysis.

For the VOA fraction, the spike recoveries and %RPD for the water spiked sample (EQK26) were well within the QC limits. The %RPD for 1,1-DCE in the soil spiked sample (EQK02) was outside the QC limits. The positive result for 1,1-DCE in the unspiked sample (EQK02) is flagged as estimated (J) and non-detected (UJ).

For the SVOA fraction, the recoveries of 4-nitrophenol and pentachlorophenol in both spike/spike duplicate were outside the QC limits for the water spiked sample (EQK26). The recovery of 2,4-dinitrotoluene in the spike duplicate was also outside the QC limits. The positive results for 4-nitrophenol, pentachlorophenol and 2,4-dinitrotoluene. in the unspiked sample (EQK26) are flagged

as estimated (J) and non-detected (UJ). The spike recoveries and %RPD for the soil spiked sample (EQK02) were well within the QC limits.

For the Pest/PCB fraction, the spike recoveries and %RPDs were well within the QC limits.

7.FIELD BLANK AND FIELD DUPLICATE

The CRL reports were not included in this data package. Samples EQK28 and EQK29 were identified as the field and trip blanks respectively. Sample EQK27 was identified as the duplicate of sample EQK26. The results for the duplicated samples are some what close. The field blank contained acetone. The trip blank contained acetone and chloroform. Review the results for each sample noted aabove in section 12.

8.INTERNAL STANDARDS

The internal standard areas and IS retention times were well within the QC limits for VOA analysis. For the SVOA fraction, the IS4 recovery for EQK08RE was outside the QC limits. The positive results for the compounds quantitated using IS4 are flagged as estimated (J) and non-detected (UJ). Please, refer to table 4 for the list of compounds associated with IS4. The results from EQK08 should be used in this case since all internal standards were within the QC limits.

9.COMPOUND IDENTIFICATION

Target compounds and TICs were identified by "best fit" library search method.

10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

VOA, SVOA and Pest/PCB Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated; therefore, the data is acceptable.

Reviewed by: Steffanie N. Tobin Lockheed/ESAT

Date: June 15, 1992

LABORATORY: COMPUCHEM CASE: 19026(1) SDG: MERA13

The laboratory portion's of case 19026(1) contains 7 low level soils assayed for total metals and total cyanide. The following narrative lists the out of control audits and their possible effects on the results.

EVIDENTIAL AUDIT: The DC1 form, DC2 form, airbill, traffic report/chain of custody, and sample tags, are original and present in the case. Pages 193-218(Pb and Tl data) are not original data and the lab does not indicate where they can be found. A phone log was issued. The original data can be found in SAS7243E SDG MEQK30.

ICP ANALYSES: The CCB was found to contain Be(2.7 ug/l, 1.8 ug/l). The preparation blank was found to contain Na(69.794 mg/kg). All Be results are estimated(J) due to contamination. All Na results except MERA15 and 17 are estimated(J) due to contamination.

The matrix spike recovery of Sb(42.9%) and Ag(70.8%) are out of control. All Sb and Ag data are estimated(UJ) due to a possible elevated detection limit.

The lab did not flag the matrix spike recovery of Mn(-50.7 %) since the sample result was 4X greater than the spike amount. All Mn data are acceptable.

GFAA ANALYSES: The matrix spike recoevry of As(73.3%) is out of control. All As data are estimated(J) due to a low bias.

The matrix spike recovery of Pb(15.8%) is out of control. The duplicate audit of Pb(56.9% RPD) is out of control. All Pb data are estimated(J) due to poor precision and a low bias.

The lab flagged "W" on results for Tl(MERA13, and 15-18) and Se(MERA14, 18, and 19). These results are estimated(UJ) due to interference.

OTHER QUALIFIERS: All CN and Hg results are acceptable.

LOCKHEED/ESAT DATE: 6/16/92 M. FLETCHER

The laboratory's portion of case 19026 contains 3 low level water and 11 low level soil samples assayed for total metals and total cyanide. The following narrative lists the out of control audits and their possible effects on the results.

LABORATORY: DATACHEM **CASE: 19026**

EVIDENTIAL AUDIT: All forms are originals. All of the raw data sheets are originals. The original sample tags, Federal Express airbill, and chain of custody forms are present. All forms are present and in the order indicated on the Form DC-2 [inventory sheet]. Due to a pagination error by the laboratory, p. 129 does not exist [see phone log]. The ICP raw data sequence of p. 130 data following p. 128 data is as stated on Form 14 with no gaps. This is was noted by the reviewer on Form DC-2.

SOIL [MERA01-11]

ICP ANALYSES: The soil duplicate RPDs for Ag (200%), Ba (37.2%), Ca (43.3%) and Na (33.8%) were not flagged by the laboratory because the duplicate differences did not exceed the technical criterion (±2xCRDL) for soil samples. All soil Ag, Ba, Ca and Na data are acceptable.

The soil duplicate RPD for Cd (200%) was flagged by the laboratory. The duplicate difference for Cd does not exceed the technical criterion (±2xCRDL) for soil samples. All soil Cd data are acceptable.

The soil matrix spike recovery for Sb (22.7%) is out of control. Sb data on MERA05 and -10 are estimated (J) due to low bias. All remaining soil Sb data are unusable (R) because the remaining Sb results are below IDL.

The matrix spike recovery for Mn (239.8%) was not flagged by the laboratory because the sample concentration was more than 4x the spike level. All soil Mn data are acceptable.

The soil preparation blank contains Cu (1.884 mg/Kg). The CCB contains Cu (13.5 µg/L), Ni (19.8 µg/L), K (1430.3 µg/L) and Zn (14.0 µg/L). Cu data on MERA05-11; Ni data on MERA07-09; K data on MERA10-11; and Zn data on MERA05-06 are estimated (J) due to contamination.

GFAA ANALYSES: The soil duplicate RPD for As (48.4%) is out of control. The soil matrix spike recovery for As (137.4%) is out of control. All soil As data are estimated (J) due to poor precision and high bias.

The soil matrix spike recovery for Pb (8.0%) was not flagged by the laboratory because the sample concentration was more than 4x the spike level. Soil Pb data are not qualified on this basis. The soil duplicate RPD for Pb (39.3%) is out of control. All soil Pb data are estimated (J) due to poor precision.

The soil duplicate RPD for Se (200%) was not flagged by the laboratory because the duplicate difference does not exceed the technical criterion (±2xCRDL) for soil samples. Soil Se data are not qualified on this basis. The soil matrix spike recovery for Se (60.8%) is out of control. The Se results for MERA03-11 were flagged (W) by the laboratory. Se data on MERA03 is estimated (J) due to low bias and interference. Se data on MERA01-02 are estimated (UJ) due to possible elevation of the detection limit. Se data on MERA04-11 are estimated (UJ) due to possible elevation of the detection limit and interference.

OTHER ANALYSES: The soil duplicate RPD for Hg (200%) was flagged by the laboratory. The duplicate difference for Hg does not exceed the technical criterion (±2xCRDL) for soil samples. Soil Hg data are not qualified on this basis. The soil matrix spike recovery for Hg (140.3%) is out of control. Hg data on MERA01, 04 and 11 are estimated (J) due to high bias. The remaining soil Hg results are acceptable, because their results are below IDL.

All soil CN data are acceptable.

WATER [MERA26-28]

ETC.

ICP ANALYSES: The water duplicate audit for Cu (difference >CRDL) is out of control. The CCB contains Cu (23.9 µg/L). Cu data on MERA27 is estimated (J) due to poor precision and contamination. Cu data on MERA26 and 28 are estimated (J) due to poor precision.

The water duplicate RPDs for Al (200%) and Sb (200.0%) were not flagged by the laboratory because the duplicate differences did not exceed the technical criterion (±CRDL) for water samples. All water Sb data are acceptable. Water Al data are not qualified on this basis, but are qualified below.

The water serial dilution audit on Mn (16.0 %) is out of control. All water Mn data are estimated (J) due to interference.

The water preparation blank contains Al (31.296 µg/L) and Ca (51.102 µg/L). Al data on MERA26-27 and Ca data on MERA28 are estimated (J) due to contamination.

GFAA ANALYSES: The water duplicate RPD for As (33.9%) was not flagged by the laboratory because the duplicate difference does not exceed the technical criterion (±CRDL) for water samples. Water As data are not qualified on this basis, but are qualified below.

The water matrix spike recovery for Pb (68.6%) is out of control. Pb results on MERA26 were flagged (W) by the laboratory. Pb data on MERA28 is estimated (J) due to low bias. Pb data on MERA26 is estimated (UJ) due to possible elevation of the detection limit and interference. Pb data on MERA27 is estimated (UJ) due to possible elevation of the detection limit.

The water matrix spike recovery for Se (67.5%) is out of control. Se results on MERA26-27 were flagged (W) by the laboratory. Se data on MERA26-27 are estimated (UJ) due to possible elevation of the detection limit and interference. Se data on MERA28 is estimated (UJ) due to possible elevation of the detection limit.

Tl results on MERA26-27 were flagged (W) by the laboratory and are estimated (UJ) due to interference.

OTHER ANALYSES: The water matrix spike recovery for Hg (128.9%) is out of control. All water Hg data are acceptable, because their results are below IDL.

All water CN data are acceptable.

Sample MERA28 is a water field blank containing As (1.2 μg/L) and Fe (14.0 μg/L). As data on MERA26 and Fe data on MERA27 are estimated (J) due to field contamination.

Samples MERA26/27 are water field duplicates that show good field correlation.

Reviewed by: James Redlin
Lockheed/ESAT

Date: 6/15/92

James Redlin

FILED

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 7/2/92

SUBJECT: Review of Region V CLP Data Received for Review on June 1, 1992

FROM: Charles T. Elly, Director (5SCRL) Patrick J. Chenelle for
Central Regional Laboratory

TO: Data User: PRC

We have reviewed the data for the following case(s).

SITE NAME: Satralloy (OH) SMO Case No. 19026

EPA Data Set No. _____ No. of Samples 14 DU/Activity Numbers 1

CRL No. _____

SMO Traffic No. MERA 01-11, MERA26-28

CLP Laboratory: Datachem Hrs. for Review 17

+0.5 BY 6-18-92

Following are our findings:

See Attached Review - PJC

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications.
( ) Data are preliminary - pending verification by laboratory.
( ) Data are unacceptable.

cc: Elenor McLean, Sample Mgmt. Office
Edward Kantor, EMSL-Las Vegas

The laboratory's portion of case 19026 contains 3 low level water and 11 low level soil samples assayed for total metals and total cyanide. The following narrative lists the out of control audits and their possible effects on the results.

LABORATORY: DATACHEM **CASE: 19026**

EVIDENTIAL AUDIT: All forms are originals. All of the raw data sheets are originals. The original sample tags, Federal Express airbill, and chain of custody forms are present. All forms are present and in the order indicated on the Form DC-2 [inventory sheet]. Due to a pagination error by the laboratory, p. 129 does not exist [see phone log]. The ICP raw data sequence of p. 130 data following p. 128 data is as stated on Form 14 with no gaps. This is was noted by the reviewer on Form DC-2.

SOIL [MERA01-11]

ICP ANALYSES: The soil duplicate RPDs for Ag (200%), Ba (37.2%), Ca (43.3%) and Na (33.8%) were not flagged by the laboratory because the duplicate differences did not exceed the technical criterion (±2xCRDL) for soil samples. All soil Ag, Ba, Ca and Na data are acceptable.

The soil duplicate RPD for Cd (200%) was flagged by the laboratory. The duplicate difference for Cd does not exceed the technical criterion (±2xCRDL) for soil samples. All soil Cd data are acceptable.

The soil matrix spike recovery for Sb (22.7%) is out of control. Sb data on MERA05 and -10 are estimated (J) due to low bias. All remaining soil Sb data are unusable (R) because the remaining Sb results are below IDL.

The matrix spike recovery for Mn (239.8%) was not flagged by the laboratory because the sample concentration was more than 4x the spike level. All soil Mn data are acceptable.

The soil preparation blank contains Cu (1.884 mg/Kg). The CCB contains Cu (13.5 µg/L), Ni (19.8 µg/L), K (1430.3 µg/L) and Zn (14.0 µg/L). Cu data on MERA05-11; Ni data on MERA07-09; K data on MERA10-11; and Zn data on MERA05-06 are estimated (J) due to contamination.

GFAA ANALYSES: The soil duplicate RPD for As (48.4%) is out of control. The soil matrix spike recovery for As (137.4%) is out of control. All soil As data are estimated (J) due to poor precision and high bias.

The soil matrix spike recovery for Pb (8.0%) was not flagged by the laboratory because the sample concentration was more than 4x the spike level. Soil Pb data are not qualified on this basis. The soil duplicate RPD for Pb (39.3%) is out of control. All soil Pb data are estimated (J) due to poor precision.

The soil duplicate RPD for Se (200%) was not flagged by the laboratory because the duplicate difference does not exceed the technical criterion (±2xCRDL) for soil samples. Soil Se data are not qualified on this basis. The soil matrix spike recovery for Se (60.8%) is out of control. The Se results for MERA03-11 were flagged (W) by the laboratory. Se data on MERA03 is estimated (J) due to low bias and interference. Se data on MERA01-02 are estimated (UJ) due to possible elevation of the detection limit. Se data on MERA04-11 are estimated (UJ) due to possible elevation of the detection limit and interference.

OTHER ANALYSES: The soil duplicate RPD for Hg (200%) was flagged by the laboratory. The duplicate difference for Hg does not exceed the technical criterion (±2xCRDL) for soil samples. Soil Hg data are not qualified on this basis. The soil matrix spike recovery for Hg (140.3%) is out of control. Hg data on MERA01, 04 and 11 are estimated (J) due to high bias. The remaining soil Hg results are acceptable, because their results are below IDL.

All soil CN data are acceptable.

WATER [MERA26-28]

ICP ANALYSES: The water duplicate audit for Cu (difference >CRDL) is out of control. The CCB contains Cu (23.9 µg/L). Cu data on MERA27 is estimated (J) due to poor precision and contamination. Cu data on MERA26 and 28 are estimated (J) due to poor precision.

The water duplicate RPDs for Al (200%) and Sb (200.0%) were not flagged by the laboratory because the duplicate differences did not exceed the technical criterion (±CRDL) for water samples. All water Sb data are acceptable. Water Al data are not qualified on this basis, but are qualified below.

The water serial dilution audit on Mn (16.0 %) is out of control. All water Mn data are estimated (J) due to interference.

The water preparation blank contains Al (31.296 µg/L) and Ca (51.102 µg/L). Al data on MERA26-27 and Ca data on MERA28 are estimated (J) due to contamination.

GFAA ANALYSES: The water duplicate RPD for As (33.9%) was not flagged by the laboratory because the duplicate difference does not exceed the technical criterion (±CRDL) for water samples. Water As data are not qualified on this basis, but are qualified below.

The water matrix spike recovery for Pb (68.6%) is out of control. Pb results on MERA26 were flagged (W) by the laboratory. Pb data on MERA28 is estimated (J) due to low bias. Pb data on MERA26 is estimated (UJ) due to possible elevation of the detection limit and interference. Pb data on MERA27 is estimated (UJ) due to possible elevation of the detection limit.

The water matrix spike recovery for Se (67.5%) is out of control. Se results on MERA26-27 were flagged (W) by the laboratory. Se data on MERA26-27 are estimated (UJ) due to possible elevation of the detection limit and interference. Se data on MERA28 is estimated (UJ) due to possible elevation of the detection limit.

Tl results on MERA26-27 were flagged (W) by the laboratory and are estimated (UJ) due to interference.

OTHER ANALYSES: The water matrix spike recovery for Hg (128.9%) is out of control. All water Hg data are acceptable, because their results are below IDL.

All water CN data are acceptable.

Sample MERA28 is a water field blank containing As (1.2 µg/L) and Fe (14.0 µg/L). As data on MERA26 and Fe data on MERA27 are estimated (J) due to field contamination.

Samples MERA26/27 are water field duplicates that show good field correlation.

Reviewed by: James Redlin
Lockheed/ESAT

Date: 6/15/92

James Redlin

In Reference to Case No(s):
19026

SDG MERA01

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: 6/10/92

Laboratory Name: Data chem Brett Handy

Lab Contact: ~~John Torsmann / Ken Olson~~ 801-266-7700

Region: V

Regional Contact: Jim Redlin

Call Initiated By: ___ Laboratory X Region

In reference to data for the following sample number(s):

ICP

Summary of Questions/Issues Discussed:

(1) [illegible] the ICP [illegible] [illegible] [illegible]

Summary of Resolution:

(1) [illegible] Info [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

James Redlin
Signature

6-10-92
Date

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

In Reference to Case No(s):

19026

SDG MEPA01

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: 6-10-92

Laboratory Name: Data chem

Lab Contact: Scott Saulls 801-266-7700

Region: 5

Regional Contact: Jim Kodlin

Call Initiated By: ___ Laboratory X Region

In reference to data for the following sample number(s):

ICP

Summary of Questions/Issues Discussed:

[illegible]

Summary of Resolution:

[illegible]

[illegible] 6-10-92

Signature Date

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

QC EXCEPTION SUMMARY REPORT

CASE # 19026
DATA SET #
LAB Q.C. #
DATE: 6/9/92

SITE Satralloy
LAB Datachem
REVIEWED BY J. Redlin

MATRIX: Soil
CONC. : Low

WATER SAMPLE SPK. MERA 26
WATER SAMPLE DUP. MERA 26
SOIL SAMPLE SPK. MERA 02
SOIL SAMPLE DUP. MERA 02

soil -01-11 | water 26-28

11 soil
3 water

	OVERALL CASE QC									MATRIX SPECIFIC QC						SAMPLE SPECIFIC QC		WATER FIELD QC			REGIONAL QC			OTHER/ COMMENTS
	4/28	ug/L			ug/L	mg/kg				soil		water						28	26/27					
	Holding Time	Cal Blanks	Init Calver	Contin Calver	Prep Blk AQ	Prep Blk SOL	ICS %R	LCS % AQ	LCS % SOL	Sol Dup RPD	Sol Spk %R	AQ Dup RPD	AQ Spk %R	Ser Dilu AQ	Ser Dilu SOL	GFAA Dup	GFAA Spike	Blank	Dup RPD	Spike %R	Blind Blank	Blind Spike %R	Split Sample RPD	
Aluminum	ok		ok	ok	31.296	~~7.854~~	ok	ok	ok			(200)	~~(200)~~						ok					
Antimony											22.7	(200)	~~(200)~~											
Arsenic		1.7								48.4	137.4	(33.9)	~~(33.9)~~					1.2						
Barium		~~3.5~~								~~(37.2)~~	~~(<CRDL)~~													
Beryllium																								
Cadmium										200	(<2xCRDL)													
Calcium		~~28.3~~			51.102													~~66.3~~						
Chromium		~~8.6~~																						
Cobalt																								
Copper		x23.9				1.884						200												
Iron		~~19.9~~				~~2.571~~												14.0						
Lead										39.3	(8.0)(4x)		{68.6}					~~3.6~~						
Magnesium																								
Manganese		~~1.9~~									(239.8)			E16.0										
Mercury								(<2xCRDL)		200	140.3		128.9											
Nickel		x24.1			~~32.675~~																			
Potassium		1430.3									~~60.8~~													
Selenium										(200)	60.8		67.5											
Silver										(200)														
Sodium		~~21.7~~			~~26.479~~	~~5.703~~				(33.8)	(<CRDL)							~~711~~						
Thallium																								
Tin																								
Vanadium																								
Zinc		x5.3				~~1.390~~																		
Cyanide																								

PBW
Al (31.296 ug/L) MERA 26-27
Cu (51.102 ug/L) MERA 28

PBS
Cu (1.884 mg/kg) (MERA 05, 06, 07,

Water ~~Soil~~ CCB
Cu (23.9 ug/L) MERA 26, 27
Ni (18.7 ug/L) MERA 26
As (1.7 ug/L) MERA 26

soil
Cu (13.5 ug/L) MERA 05-11
Ni (1[illegible] ug/L) MERA 05-09
K (1430.3 ug/L) MERA 10-11
Zn (14.0 ug/L) MERA 05-06

Field Blank
As (1.2 ug/L) MERA 26
Fe (14.0 ug/L) MERA 27

ENVIROFORMS/INORGANIC CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

SOW No.: 3/90

Sample No.	Lab Sample ID.
MERA01	CLP10168
MERA02	CLP10169
MERA02D	CLP10169
MERA02S	CLP10169
MERA03	CLP10170
MERA04	CLP10171
MERA05	CLP10172
MERA06	CLP10173
MERA07	CLP10174
MERA08	CLP10175
MERA09	CLP10176
MERA10	CLP10177
MERA11	CLP10178
MERA26	CLP10192
MERA26D	CLP10192
MERA26S	CLP10192
MERA27	CLP10193
MERA28	CLP10194

RECEIVED
JUN 01 1992
US EPA ... REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes, were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] Name: A. Brent Tengenson

Date: 5-29-92 Title: Department Manager

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
Baghouse
MERA01

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Matrix (soil/water): SOIL Lab Sample ID: CLP10168

Level (low/med): LOW Date Received: 04/29/92

% Solids: 69.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16400			P
7440-36-0	Antimony	12.6	U	N	P
7440-38-2	Arsenic	29.0		N*	FM
7440-39-3	Barium	76.8			P
7440-41-7	Beryllium	0.70	B		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	6390			P
7440-47-3	Chromium	12400			P
7440-48-4	Cobalt	35.2			P
7440-50-8	Copper	119			P
7439-89-6	Iron	23000			P
7439-92-1	Lead	641		*	FM
7439-95-4	Magnesium	176000			P
7439-96-5	Manganese	1710			P
7439-97-6	Mercury	1.0		N	CV
7440-02-0	Nickel	664			P
7440-09-7	Potassium	354	B		P
7782-49-2	Selenium	0.14	U	NS	FM
7440-22-4	Silver	1.8	B		P
7440-23-5	Sodium	118	B		P
7440-28-0	Thallium	1.8			FM
7440-62-2	Vanadium	31.5			P
7440-66-6	Zinc	3560			P
	Cyanide	3.6	U		AS

Color Before: BLACK Clarity Before: Texture: FINE

Color After: BLACK Clarity After: Artifacts:

Comments:

2

FORM I - IN

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
Background
MERA02

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Matrix (soil/water): SOIL Lab Sample ID: CLP10169

Level (low/med): LOW Date Received: 04/29/92

% Solids: 82.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11200			P
7440-36-0	Antimony	10.7	U	N	P
7440-38-2	Arsenic	15.6		N*	FM
7440-39-3	Barium	74.8			P
7440-41-7	Beryllium	0.29	B		P
7440-43-9	Cadmium	0.98	U		P
7440-70-2	Calcium	844	B		P
7440-47-3	Chromium	27.7			P
7440-48-4	Cobalt	15.7			P
7440-50-8	Copper	27.7			P
7439-89-6	Iron	36000			P
7439-92-1	Lead	33.0		*	FM
7439-95-4	Magnesium	3140			P
7439-96-5	Manganese	567			P
7439-97-6	Mercury	0.12	U	N	CV
7440-02-0	Nickel	29.8			P
7440-09-7	Potassium	1320			P
7782-49-2	Selenium	1.2	U	N	FM
7440-22-4	Silver	0.99	B		P
7440-23-5	Sodium	34.6	B		P
7440-28-0	Thallium	0.52	B		FM
7440-62-2	Vanadium	20.9			P
7440-66-6	Zinc	94.3			P
	Cyanide	3.0	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO. Background

MERA03

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Matrix (soil/water): SOIL Lab Sample ID: CLP10170

Level (low/med): LOW Date Received: 04/29/92

% Solids: 70.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11700			P
7440-36-0	Antimony	12.4	U	N	P
7440-38-2	Arsenic	10.9		N*	FM
7440-39-3	Barium	195			P
7440-41-7	Beryllium	0.33	B		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	6320			P
7440-47-3	Chromium	115			P
7440-48-4	Cobalt	15.9			P
7440-50-8	Copper	27.2			P
7439-89-6	Iron	30500			P
7439-92-1	Lead	76.2		*	FM
7439-95-4	Magnesium	2530			P
7439-96-5	Manganese	1570			P
7439-97-6	Mercury	0.14	U	N	CV
7440-02-0	Nickel	35.6			P
7440-09-7	Potassium	1850			P
7782-49-2	Selenium	0.32	B	NW	FM
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	48.3	B		P
7440-28-0	Thallium	0.43	B		FM
7440-62-2	Vanadium	25.1			P
7440-66-6	Zinc	135			P
	Cyanide	3.5	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
Chrome Cre

MERA04

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Matrix (soil/water): SOIL Lab Sample ID: CLP10171

Level (low/med): LOW Date Received: 04/29/92

% Solids: 97.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3540			P
7440-36-0	Antimony	9.0	U	N	P
7440-38-2	Arsenic	1.8		N*	FM
7440-39-3	Barium	14.5	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.82	U		P
7440-70-2	Calcium	4690			P
7440-47-3	Chromium	1110			P
7440-48-4	Cobalt	5.7	B		P
7440-50-8	Copper	124			P
7439-89-6	Iron	13100			P
7439-92-1	Lead	4.1		*	FM
7439-95-4	Magnesium	39400			P
7439-96-5	Manganese	206			P
7439-97-6	Mercury	0.26		N	CV
7440-02-0	Nickel	550			P
7440-09-7	Potassium	382	B		P
7782-49-2	Selenium	0.10	U	NW	FM
7440-22-4	Silver	0.82	U		P
7440-23-5	Sodium	48.0	B		P
7440-28-0	Thallium	0.10	U		FM
7440-62-2	Vanadium	6.4	B		P
7440-66-6	Zinc	18.9			P
	Cyanide	2.6	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MERA05

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Matrix (soil/water): SOIL Lab Sample ID: CLP10172

Level (low/med): LOW Date Received: 04/29/92

% Solids: 51.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	671			P
7440-36-0	Antimony	21.6	B	N	P
7440-38-2	Arsenic	1.2	B	N*	FM
7440-39-3	Barium	77.4	B		P
7440-41-7	Beryllium	0.39	U		P
7440-43-9	Cadmium	1.6	U		P
7440-70-2	Calcium	343000			P
7440-47-3	Chromium	28.0			P
7440-48-4	Cobalt	1.6	U		P
7440-50-8	Copper	6.8	B		P
7439-89-6	Iron	426			P
7439-92-1	Lead	1.7		*	FM
7439-95-4	Magnesium	8690			P
7439-96-5	Manganese	105			P
7439-97-6	Mercury	0.19	U	N	CV
7440-02-0	Nickel	6.6	U		P
7440-09-7	Potassium	262	B		P
7782-49-2	Selenium	1.9	U	NW	FM
7440-22-4	Silver	1.6	U		P
7440-23-5	Sodium	238	B		P
7440-28-0	Thallium	0.19	U		FM
7440-62-2	Vanadium	4.1	B		P
7440-66-6	Zinc	21.2			P
	Cyanide	4.9	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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SAMPLE NO.

MERA06

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Matrix (soil/water): SOIL Lab Sample ID: CLP10173

Level (low/med): LOW Date Received: 04/29/92

% Solids: 40.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1110			P
7440-36-0	Antimony	21.9	U	N	P
7440-38-2	Arsenic	4.8		N*	FM
7440-39-3	Barium	43.5	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	282000			P
7440-47-3	Chromium	49.2			P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	8.7	B		P
7439-89-6	Iron	761			P
7439-92-1	Lead	5.6		*	FM
7439-95-4	Magnesium	8080			P
7439-96-5	Manganese	177			P
7439-97-6	Mercury	0.25	U	N	CV
7440-02-0	Nickel	8.5	U		P
7440-09-7	Potassium	308	U		P
7782-49-2	Selenium	2.5	U	NW	FM
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	183	B		P
7440-28-0	Thallium	0.25	U		FM
7440-62-2	Vanadium	15.1	B		P
7440-66-6	Zinc	11.0			P
	Cyanide	6.2	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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SAMPLE NO.

MERA07

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Matrix (soil/water): SOIL Lab Sample ID: CLP10174

Level (low/med): LOW Date Received: 04/29/92

% Solids: 44.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2660			P
7440-36-0	Antimony	19.8	U	N	P
7440-38-2	Arsenic	2.5		N*	FM
7440-39-3	Barium	68.6	B		P
7440-41-7	Beryllium	0.45	U		P
7440-43-9	Cadmium	1.8	B		P
7440-70-2	Calcium	269000			P
7440-47-3	Chromium	134			P
7440-48-4	Cobalt	6.9	B		P
7440-50-8	Copper	9.0	B		P
7439-89-6	Iron	3370			P
7439-92-1	Lead	6.8		*	FM
7439-95-4	Magnesium	5850			P
7439-96-5	Manganese	378			P
7439-97-6	Mercury	0.22	U	N	CV
7440-02-0	Nickel	16.7	B		P
7440-09-7	Potassium	659	B		P
7782-49-2	Selenium	2.2	U	NW	FM
7440-22-4	Silver	1.8	U		P
7440-23-5	Sodium	213	B		P
7440-28-0	Thallium	0.22	U		FM
7440-62-2	Vanadium	6.7	B		P
7440-66-6	Zinc	71.6			P
	Cyanide	5.6	U		AS

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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SAMPLE NO.

MERA08

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Matrix (soil/water): SOIL Lab Sample ID: CLP10175

Level (low/med): LOW Date Received: 04/29/92

% Solids: 40.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15200			P
7440-36-0	Antimony	22.0	U	N	P
7440-38-2	Arsenic	23.6		N*	FM
7440-39-3	Barium	82.2	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	2.1	B		P
7440-70-2	Calcium	123000			P
7440-47-3	Chromium	1850			P
7440-48-4	Cobalt	4.8	B		P
7440-50-8	Copper	17.9			P
7439-89-6	Iron	7870			P
7439-92-1	Lead	35.4		*	FM
7439-95-4	Magnesium	42000			P
7439-96-5	Manganese	3040			P
7439-97-6	Mercury	0.25	U	N	CV
7440-02-0	Nickel	35.2			P
7440-09-7	Potassium	1150	B		P
7782-49-2	Selenium	2.5	U	NW	FM
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	200	B		P
7440-28-0	Thallium	0.44	B		FM
7440-62-2	Vanadium	37.0			P
7440-66-6	Zinc	180			P
	Cyanide	6.2	U		AS

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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SAMPLE NO.

MERA09

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Matrix (soil/water): SOIL Lab Sample ID: CLP10176

Level (low/med): LOW Date Received: 04/29/92

% Solids: 30.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15000			P
7440-36-0	Antimony	28.9	U	N	P
7440-38-2	Arsenic	21.2		N*	FM
7440-39-3	Barium	79.2	B		P
7440-41-7	Beryllium	0.66	U		P
7440-43-9	Cadmium	2.6	U		P
7440-70-2	Calcium	153000			P
7440-47-3	Chromium	1410			P
7440-48-4	Cobalt	3.1	B		P
7440-50-8	Copper	21.9			P
7439-89-6	Iron	6020			P
7439-92-1	Lead	35.2		*	FM
7439-95-4	Magnesium	37000			P
7439-96-5	Manganese	2610			P
7439-97-6	Mercury	0.33	U	N	CV
7440-02-0	Nickel	25.9	B		P
7440-09-7	Potassium	1020	B		P
7782-49-2	Selenium	3.3	U	NW	FM
7440-22-4	Silver	2.6	U		P
7440-23-5	Sodium	210	B		P
7440-28-0	Thallium	0.44	B		FM
7440-62-2	Vanadium	35.3			P
7440-66-6	Zinc	207			P
	Cyanide	8.2	U		AS

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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SAMPLE NO.

MERA10

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Matrix (soil/water): SOIL Lab Sample ID: CLP10177

Level (low/med): LOW Date Received: 04/29/92

% Solids: 48.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19900			P
7440-36-0	Antimony	20.1	B	N	P
7440-38-2	Arsenic	29.4		N*	FM
7440-39-3	Barium	105			P
7440-41-7	Beryllium	0.41	U		P
7440-43-9	Cadmium	3.4			P
7440-70-2	Calcium	133000			P
7440-47-3	Chromium	1960			P
7440-48-4	Cobalt	6.5	B		P
7440-50-8	Copper	24.0			P
7439-89-6	Iron	7840			P
7439-92-1	Lead	43.8		*	FM
7439-95-4	Magnesium	58000			P
7439-96-5	Manganese	2840			P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	44.5			P
7440-09-7	Potassium	1430	B		P
7782-49-2	Selenium	2.0	U	NW	FM
7440-22-4	Silver	1.6	U		P
7440-23-5	Sodium	235	B		P
7440-28-0	Thallium	0.62	B		FM
7440-62-2	Vanadium	36.7			P
7440-66-6	Zinc	237			P
	Cyanide	5.1	U		AS

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MERA11

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Matrix (soil/water): SOIL Lab Sample ID: CLP10178

Level (low/med): LOW Date Received: 04/29/92

% Solids: 73.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14600			P
7440-36-0	Antimony	11.9	U	N	P
7440-38-2	Arsenic	17.7		N*	FM
7440-39-3	Barium	42.6	B		P
7440-41-7	Beryllium	0.27	U		P
7440-43-9	Cadmium	1.9			P
7440-70-2	Calcium	193000			P
7440-47-3	Chromium	3000			P
7440-48-4	Cobalt	4.0	B		P
7440-50-8	Copper	15.9			P
7439-89-6	Iron	3690			P
7439-92-1	Lead	57.0		*	FM
7439-95-4	Magnesium	46600			P
7439-96-5	Manganese	3360			P
7439-97-6	Mercury	0.19		N	CV
7440-02-0	Nickel	64.8			P
7440-09-7	Potassium	597	B		P
7782-49-2	Selenium	1.4	U	NW	FM
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	114	B		P
7440-28-0	Thallium	0.41	B		FM
7440-62-2	Vanadium	36.7			P
7440-66-6	Zinc	457			P
	Cyanide	3.4	U		AS

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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SAMPLE NO.

MERA26

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Matrix (soil/water): WATER Lab Sample ID: CLP10192

Level (low/med): LOW Date Received: 04/30/92

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	45.2	B		PM
7440-36-0	Antimony	48.9	U		P
7440-38-2	Arsenic	1.9	B		FM
7440-39-3	Barium	26.1	B		P
7440-41-7	Beryllium	1.1	U		P
7440-43-9	Cadmium	4.4	U		P
7440-70-2	Calcium	174000			P
7440-47-3	Chromium	7.8	U		P
7440-48-4	Cobalt	4.4	U		P
7440-50-8	Copper	4.4	U	*	P
7439-89-6	Iron	7.8	U		P
7439-92-1	Lead	1.1	U	NW	FM
7439-95-4	Magnesium	35400			P
7439-96-5	Manganese	140		E	P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	18.9	U		P
7440-09-7	Potassium	2800	B		P
7782-49-2	Selenium	1.1	U	NW	FM
7440-22-4	Silver	4.4	U		P
7440-23-5	Sodium	24700			P
7440-28-0	Thallium	1.1	U	W	FM
7440-62-2	Vanadium	5.6	U		P
7440-66-6	Zinc	5.6	U		P
	Cyanide	20.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E - ICP SERIAL DILUTION IS OUTSIDE OF CONTROL LIMITS.

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SAMPLE NO.

MERA27

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Matrix (soil/water): WATER Lab Sample ID: CLP10193

Level (low/med): LOW Date Received: 04/30/92

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	33.2	B		P
7440-36-0	Antimony	48.9	U		P
7440-38-2	Arsenic	1.1	U		FM
7440-39-3	Barium	27.8	B		P
7440-41-7	Beryllium	1.1	U		P
7440-43-9	Cadmium	4.4	U		P
7440-70-2	Calcium	191000			P
7440-47-3	Chromium	7.8	U		P
7440-48-4	Cobalt	4.4	U		P
7440-50-8	Copper	6.6	B	*	P
7439-89-6	Iron	14.0	B		P
7439-92-1	Lead	11.1	U	N	FM
7439-95-4	Magnesium	38200			P
7439-96-5	Manganese	143		E	P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	18.9	U		P
7440-09-7	Potassium	3090	B		P
7782-49-2	Selenium	1.1	U	NW	FM
7440-22-4	Silver	4.4	U		P
7440-23-5	Sodium	26400			P
7440-28-0	Thallium	1.1	U	W	FM
7440-62-2	Vanadium	5.6	U		P
7440-66-6	Zinc	5.6	U		P
	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E - ICP SERIAL DILUTION IS OUTSIDE OF CONTROL LIMITS.

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SAMPLE NO.

MERA28

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Matrix (soil/water): WATER Lab Sample ID: CLP10194

Level (low/med): LOW Date Received: 04/30/92

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	26.7	U		P
7440-36-0	Antimony	48.9	U		P
7440-38-2	Arsenic	1.2	B		FM
7440-39-3	Barium	2.2	U		P
7440-41-7	Beryllium	1.1	U		P
7440-43-9	Cadmium	4.4	U		P
7440-70-2	Calcium	66.3	B		P
7440-47-3	Chromium	7.8	U		P
7440-48-4	Cobalt	4.4	U		P
7440-50-8	Copper	4.4	U	*	P
7439-89-6	Iron	14.0	B		P
7439-92-1	Lead	3.6		N	FM
7439-95-4	Magnesium	64.4	U		P
7439-96-5	Manganese	1.1	U	E	P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	18.9	U		P
7440-09-7	Potassium	689	U		P
7782-49-2	Selenium	1.1	U	N	FM
7440-22-4	Silver	4.4	U		P
7440-23-5	Sodium	711	B		P
7440-28-0	Thallium	1.1	U		FM
7440-62-2	Vanadium	5.6	U		P
7440-66-6	Zinc	5.6	U		P
	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
E - ICP SERIAL DILUTION IS OUTSIDE OF CONTROL LIMITS.

FORM I - IN

ENVIROFORMS/INORGANIC CLP

3
BLANKS

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	24.0	U	24.0	U	24.0	U	-26.8	B	31.296	B	P
Antimony	44.0	U	44.0	U	44.0	U	44.0	U	48.889	U	P
Arsenic	1.3	B	1.2	B	1.0	U	1.0	U	1.111	U	FM
Barium	2.0	U	2.9	B	2.9	B	2.0	U	2.222	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	1.111	U	P
Cadmium	4.0	U	4.0	U	4.0	U	4.0	U	4.444	U	P
Calcium	23.0	U	28.3	B	27.6	B	23.0	U	51.102	B	P
Chromium	7.0	U	7.0	U	7.0	U	7.0	U	7.778	U	P
Cobalt	4.0	U	4.0	U	4.0	U	-7.2	B	4.444	U	P
Copper	4.0	U	10.5	B	16.4	B	23.9	B	4.444	U	P
Iron	7.0	U	7.0	U	7.0	U	7.0	U	7.778	U	P
Lead	1.0	U	1.0	U	1.0	U	1.0	U	1.111	U	FM
Magnesium	58.0	U	58.0	U	58.0	U	58.0	U	64.444	U	P
Manganese	1.0	U	1.3	B	1.3	B	-5.3	B	1.111	U	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.200	U	CV
Nickel	17.0	U	24.1	B	18.7	B	17.0	U	32.675	B	P
Potassium	620.0	U	620.0	U	620.0	U	620.0	U	688.889	U	P
Selenium	1.0	U	1.0	U	1.0	U	1.0	U	1.111	U	FM
Silver	4.0	U	4.0	U	4.0	U	4.0	U	4.444	U	P
Sodium	18.0	U	18.0	U	18.0	U	18.0	U	26.479	B	P
Thallium	1.0	U	1.0	U	1.0	U	1.0	U	1.111	U	FM
Vanadium	-7.6	B	5.0	U	5.0	U	-5.8	B	-16.819	B	P
Zinc	5.0	U	5.0	U	5.0	U	5.0	U	5.556	U	P
Cyanide	20.0	U	20.0	U	20.0	U	20.0	U	10.000	U	AS

ENVIROFORMS/INORGANIC CLP

3
BLANKS

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			24.0	U					7.859	B	P
Antimony			44.0	U					8.800	U	P
Arsenic			1.7	B	1.6	B			0.100	U	FM
Barium			2.0	U					0.400	U	P
Beryllium			1.0	U					0.200	U	P
Cadmium			4.0	U					0.800	U	P
Calcium			23.0	U					4.600	U	P
Chromium			7.0	U					1.400	U	P
Cobalt			-7.2	B					0.800	U	P
Copper			9.0	B					1.884	B	P
Iron			7.0	U					2.571	B	P
Lead			1.0	U	1.0	U	1.0	U	0.100	U	FM
Magnesium			58.0	U					11.600	U	P
Manganese			-4.7	B					0.200	U	P
Mercury			0.2	U					0.100	U	CV
Nickel			-21.7	B					3.400	U	P
Potassium			620.0	U					124.000	U	P
Selenium			1.0	U	1.0	U	1.0	U	0.100	U	FM
Silver			4.0	U					0.800	U	P
Sodium			18.0	U					5.763	B	P
Thallium			1.0	U	1.0	U	1.0	U	0.100	U	FM
Vanadium			5.0	U					-1.444	B	P
Zinc			5.0	U					1.390	B	P
Cyanide			20.0	U					2.500	U	AS

ENVIROFORMS/INORGANIC CLP

3
BLANKS

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	24.0	U	24.0	U	24.0	U	24.0	U			P
Antimony	44.0	U	44.0	U	44.0	U	44.0	U			P
Arsenic	1.0	U	1.0	U	1.0	U					FM
Barium	2.8	B	3.5	B	2.8	B	2.8	B			P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U			P
Cadmium	4.0	U	4.0	U	4.0	U	4.0	U			P
Calcium	23.0	U	23.0	U	23.0	U	25.2	B			P
Chromium	7.0	U	7.0	U	8.6	B	7.0	U			P
Cobalt	-5.3	B	4.0	U	4.0	U	4.0	U			P
Copper	10.8	B	16.1	B	13.5	B	12.1	B			P
Iron	7.0	U	7.0	B	18.7	B	17.5	B			P
Lead			1.0	U	1.0	U					FM
Magnesium	58.0	U	58.0	U	58.0	U	58.0	U			P
Manganese	1.0	U	1.2	B	1.0	U	1.9	B			P
Mercury											NR
Nickel	23.5	B	17.0	U	17.0	U	19.8	B			P
Potassium	620.0	U	620.0	U	620.0	U	620.0	U			P
Selenium			1.0	U							FM
Silver	4.0	U	4.0	U	4.0	U	4.0	U			P
Sodium	18.0	U	18.0	U	18.0	U	18.0	U			P
Thallium	1.0	U	1.0	U	1.0	U	1.0	U			FM
Vanadium	5.0	U	5.0	U	-7.2	B	-7.2	B			P
Zinc	13.9	B	15.3	B	14.0	B	8.3	B			P
Cyanide											NR

FORM III - IN

ENVIROFORMS/INORGANIC CLP

3
BLANKS

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			24.0	U							P
Antimony			44.0	U							P
Arsenic	1.0	U	1.0	U	1.0	U	1.0	U			FM
Barium			2.8	B							P
Beryllium			1.0	U							P
Cadmium			4.0	U							P
Calcium			23.0	U							P
Chromium			7.0	U							P
Cobalt			4.0	U							P
Copper			9.4	B							P
Iron			19.9	B							P
Lead	1.0	U	1.0	U	1.0	U	1.0	U			FM
Magnesium			58.0	U							P
Manganese			1.2	B							P
Mercury											NR
Nickel			17.0	U							P
Potassium			1430.3	B							P
Selenium	1.0	U	1.0	U	1.0	U	3.6	B			FM
Silver			4.0	U							P
Sodium			21.7	B							P
Thallium			1.0	U	1.0	U					FM
Vanadium			5.0	U							P
Zinc			9.7	B							P
Cyanide											NR

FORM III - IN

ENVIROFORMS/INORGANIC CLP

3
BLANKS

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony	44.0	U	44.0	U	44.0	U					P
Arsenic			1.0	U	1.0	U	1.0	U			FM
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			1.0	U	1.0	U	1.0	U			FM
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium			1.0	U	1.0	U	1.0	U			FM
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN

ENVIROFORMS/INORGANIC CLP

3
BLANKS

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic			1.0	U	1.0	U					FM
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			1.0	U							FM
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium			1.0	U							FM
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN

ENVIROFORMS/INORGANIC CLP

3
BLANKS

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	-1.4	B	-1.4	B	-1.0	B					FM
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

FORM III - IN

ENVIROFORMS/INORGANIC CLP

5A
SPIKE SAMPLE RECOVERY

SAMPLE NO.

MERA02S

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Matrix (soil/water): SOIL Level (low/med): LOW
% Solids for Sample: 82.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	27.6561		10.7317	U	121.95	22.7	N	P
Arsenic	75-125	22.3049		15.5976		4.88	137.4	N	FM
Barium	75-125	590.1711		74.7866		487.80	105.7		P
Beryllium	75-125	13.1744		0.2864	B	12.20	105.6		P
Cadmium	75-125	13.1063		0.9756	U	12.20	107.4		P
Calcium									NR
Chromium	75-125	78.7819		27.6644		48.78	104.8		P
Cobalt	75-125	147.3693		15.6625		121.95	108.0		P
Copper	75-125	96.5572		27.7248		60.98	112.9		P
Iron									NR
Lead		33.1707		32.9756		2.44	8.0		FM
Magnesium									NR
Manganese		859.4525		566.9641		121.95	239.8		P
Mercury	75-125	0.8561		0.1220	U	0.61	140.3	N	CV
Nickel	75-125	159.4551		29.8300		121.95	106.3		P
Potassium									NR
Selenium	75-125	0.7415		1.2195	U	1.22	60.8	N	FM
Silver	75-125	13.3345		0.9858	B	12.20	101.2		P
Sodium									NR
Thallium	75-125	6.8012		0.5159	B	6.10	103.0		FM
Vanadium	75-125	151.2648		20.9318		121.95	106.9		P
Zinc	75-125	211.9364		94.2746		121.95	96.5		P
Cyanide	75-125	28.6585		3.0488	U	30.49	94.0		AS

Comments:

FORM V (PART 1) - IN

ENVIROFORMS/INORGANIC CLP

5A
SPIKE SAMPLE RECOVERY

SAMPLE NO.

MERA26S

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Matrix (soil/water): WATER Level (low/med): LOW
% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2407.3291		45.2237	B	2222.22	106.3		PM
Antimony	75-125	591.3944		48.8889	U	555.56	106.5		PM
Arsenic	75-125	47.0667		1.8778	B	44.44	101.7		FM
Barium	75-125	2428.5867		26.1016	B	2222.22	108.1		PM
Beryllium	75-125	59.1780		1.1111	U	55.56	106.5		P
Cadmium	75-125	59.0426		4.4444	U	55.56	106.3		PM
Calcium									NR
Chromium	75-125	235.3394		7.7778	U	222.22	105.9		PM
Cobalt	75-125	593.9483		4.4444	U	555.56	106.9		PM
Copper	75-125	323.4367		4.4444	U	277.78	116.4		PM
Iron	75-125	1237.2484		7.7778	U	1111.11	111.4		PM
Lead	75-125	15.2333		1.1111	U	22.22	68.6	N	FM
Magnesium									NR
Manganese	75-125	735.2619		140.4278		555.56	107.1		PM
Mercury	75-125	1.2890		0.2000	U	1.00	128.9	N	CV
Nickel	75-125	611.0648		18.8889	U	555.56	110.0		PM
Potassium									NR
Selenium	75-125	7.5000		1.1111	U	11.11	67.5	N	PM
Silver	75-125	60.4728		4.4444	U	55.56	108.8		PM
Sodium									NR
Thallium	75-125	47.9889		1.1111	U	55.56	86.4		FM
Vanadium	75-125	611.5210		5.5556	U	555.56	110.1		PM
Zinc	75-125	596.3007		5.5556	U	555.56	107.3		PM
Cyanide	75-125	188.5000		20.0000	U	200.00	94.2		AS

Comments:

FORM V (PART 1) - IN

ENVIROFORMS/INORGANIC CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

MERA02A

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)		Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		126.77		44.00	U	120.0	105.6		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

FORM V (PART 2) - IN

ENVIROFORMS/INORGANIC CLP

6
DUPLICATES

SAMPLE NO.

MERA02D

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 82.0 % Solids for Duplicate: 83.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		11155.8720		11928.2810		6.7		P
Antimony		10.7317	U	10.7317	U			P
Arsenic		15.5976		9.5232		48.4	*	FM
Barium	48.8	74.7866		108.9651		37.2		P
Beryllium		0.2864	B	0.2805	B	2.1		P
Cadmium	1.2	0.9756	U	2.0834		200.0	*	P
Calcium	1219.5	843.7311	B	1309.3724		43.3		P
Chromium		27.6644		27.6083		0.2		P
Cobalt	12.2	15.6625		17.0647		8.6		P
Copper	6.1	27.7248		33.3512		18.4		P
Iron		35988.4680		34541.5090		4.1		P
Lead		32.9756		22.1463		39.3	*	FM
Magnesium	1219.5	3139.9867		3189.7747		1.6		P
Manganese		566.9641		676.5789		17.6		P
Mercury	0.1	0.1220	U	0.1732		200.0	*	CV
Nickel	9.8	29.8300		26.2174		12.9		P
Potassium	1219.5	1322.7469		1712.9340		25.7		P
Selenium		1.2195	U	0.1951	B	200.0		FM
Silver		0.9858	B	0.9756	U	200.0		P
Sodium		34.5870	B	48.6423	B	33.8		P
Thallium		0.5159	B	0.4256	B	19.2		FM
Vanadium	12.2	20.9318		24.6892		16.5		P
Zinc		94.2746		84.2525		11.2		P
Cyanide		3.0488	U	3.0488	U			AS

ENVIROFORMS/INORGANIC CLP

6
DUPLICATES

SAMPLE NO.

MERA26D

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		45.2237	B	26.6667	U	200.0		PM
Antimony		48.8889	U	49.7007	B	200.0		PM
Arsenic		1.8778	B	1.3333	B	33.9		FM
Barium		26.1016	B	26.1842	B	0.3		PM
Beryllium		1.1111	U	1.1111	U			PM
Cadmium		4.4444	U	4.4444	U			PM
Calcium		173912.1500		178334.2300		2.5		PM
Chromium		7.7778	U	7.7778	U			PM
Cobalt		4.4444	U	4.4444	U			PM
Copper	27.8	4.4444	U	38.1676		200.0	*	PM
Iron		7.7778	U	7.7778	U			PM
Lead		1.1111	U	1.1111	U			FM
Magnesium		35445.1210		35541.2560		0.3		PM
Manganese		140.4278		136.5501		2.8		PM
Mercury		0.2000	U	0.2000	U			CV
Nickel		18.8889	U	18.8889	U			PM
Potassium		2802.2171	B	2410.1517	B	15.0		PM
Selenium		1.1111	U	1.1111	U			FM
Silver		4.4444	U	4.4444	U			PM
Sodium	5555.6	24677.7040		24844.3330		0.7		PM
Thallium		1.1111	U	1.1111	U			FM
Vanadium		5.5556	U	5.5556	U			PM
Zinc		5.5556	U	5.5556	U			PM
Cyanide		20.0000	U	20.0000	U			AS

FORM VI - IN

ENVIROFORMS/INORGANIC CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

ICP ID Number: ICP-B Date: 04/16/92

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200.0	24.0	P
Antimony	206.80		60.0	44.0	P
Arsenic			10.0		NR
Barium	493.40		200.0	2.0	P
Beryllium	313.00		5.0	1.0	P
Cadmium	228.80		5.0	4.0	P
Calcium	315.80		5000.0	23.0	P
Chromium	267.70		10.0	7.0	P
Cobalt	228.60		50.0	4.0	P
Copper	327.40		25.0	4.0	P
Iron	259.90		100.0	7.0	P
Lead			3.0		NR
Magnesium	279.00		5000.0	58.0	P
Manganese	257.60		15.0	1.0	P
Mercury			0.2		NR
Nickel	231.60		40.0	17.0	P
Potassium	766.40		5000.0	620.0	P
Selenium			5.0		NR
Silver	328.00		10.0	4.0	P
Sodium	588.90		5000.0	18.0	P
Thallium			10.0		NR
Vanadium	292.40		50.0	5.0	P
Zinc	213.80		20.0	5.0	P

Comments:
BOTH MICROWAVE AND HOTPLATE DIGESTION METHODS WERE USED TO PREPARE THIS SET OF SAMPLES.
MICROWAVE DIGESTION WAS DONE ON THE ICP WATER SAMPLES
HOTPLATE DIGESTION WAS DONE ON THE ICP SOIL SAMPLES.

FORM X - IN

ENVIROFORMS/INORGANIC CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

ICP ID Number: Date: 04/08/92

Flame AA ID Number:

Furnace AA ID Number: AAS-ZEB

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		NR
Antimony			60.0		NR
Arsenic			10.0		NR
Barium			200.0		NR
Beryllium			5.0		NR
Cadmium			5.0		NR
Calcium			5000.0		NR
Chromium			10.0		NR
Cobalt			50.0		NR
Copper			25.0		NR
Iron			100.0		NR
Lead			3.0		NR
Magnesium			5000.0		NR
Manganese			15.0		NR
Mercury			0.2		NR
Nickel			40.0		NR
Potassium			5000.0		NR
Selenium			5.0		NR
Silver			10.0		NR
Sodium			5000.0		NR
Thallium	276.80	BZ	10.0	1.0	FM
Vanadium			50.0		NR
Zinc			20.0		NR

Comments:

FORM X - IN

ENVIROFORMS/INORGANIC CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

ICP ID Number: Date: 04/06/92

Flame AA ID Number:

Furnace AA ID Number: AAS-ZEC

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		NR
Antimony			60.0		NR
Arsenic			10.0		NR
Barium			200.0		NR
Beryllium			5.0		NR
Cadmium			5.0		NR
Calcium			5000.0		NR
Chromium			10.0		NR
Cobalt			50.0		NR
Copper			25.0		NR
Iron			100.0		NR
Lead			3.0		NR
Magnesium			5000.0		NR
Manganese			15.0		NR
Mercury			0.2		NR
Nickel			40.0		NR
Potassium			5000.0		NR
Selenium	196.00	BZ	5.0	1.0	FM
Silver			10.0		NR
Sodium			5000.0		NR
Thallium			10.0		NR
Vanadium			50.0		NR
Zinc			20.0		NR

Comments:

FORM X - IN

ENVIROFORMS/INORGANIC CLP

FILED

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 19026 SAS No.: SDG No.: MERA01

ICP ID Number: Date: 04/14/92

Flame AA ID Number: AAS-CVC

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		NR
Antimony			60.0		NR
Arsenic			10.0		NR
Barium			200.0		NR
Beryllium			5.0		NR
Cadmium			5.0		NR
Calcium			5000.0		NR
Chromium			10.0		NR
Cobalt			50.0		NR
Copper			25.0		NR
Iron			100.0		NR
Lead			3.0		NR
Magnesium			5000.0		NR
Manganese			15.0		NR
Mercury	253.70		0.2	0.2	CV
Nickel			40.0		NR
Potassium			5000.0		NR
Selenium			5.0		NR
Silver			10.0		NR
Sodium			5000.0		NR
Thallium			10.0		NR
Vanadium			50.0		NR
Zinc			20.0		NR

Comments:

FORM X - IN

pg 1 of 15

FILED

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 6/25/92

SUBJECT: Review of Region V CLP Data
Received for Review on June 4, 1992

FROM: Charles T. Elly, Director(5SCRL) Patrick J Churilla for
Central Regional Laboratory

TO: Data User: PRC

We have reviewed the data for the following case(s).

SITE NAME: Satralloy (OH) SMO Case No. 19026

EPA Data Set No. _____ No. of Samples 15 DU/Activity Numbers _____

CRL No. _____

SMO Traffic No. EQK01-11, EQK26-29

CLP Laboratory: Wadsworth Hrs. for Review 21 hrs
3
24 hrs w/sm

Following are our findings:

See Attached Review - PJC

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications.
( ) Data are preliminary - pending verification by laboratory.
( ) Data are unacceptable.

cc: Elenor McLean, Sample Mgmt.Office
Edward Kantor, EMSL-Las Vegas

NARRATIVE

CONTRACTOR: WADSWORTH
CASE: 19026
SDG: EQK01

The samples were collected on 04/28/92 and 04/29/92. The laboratory received four (4) water samples and eleven (11) soil samples in good condition for organic analysis following the SOW 3/90. Samples EQK03, EQK04, EQK05, EQK06, EQK07, EQK10, EQK11 and EQK29 were analyzed for VOAs only. The remaining samples were analyzed for full organic analysis.

Sample EQK26 was used for the low level water matrix spike/spike duplicate for the VOA, SVOA and Pest/PCB analysis. Sample EQK02 was used for the low level soil matrix spike/spike duplicate for the VOA, SVOA and Pest/PCB analysis.

The CRL reports were not included in this data package. Samples EQK28 and EQK29 were identified as the field and trip blanks respectively. Sample EQK27 was identified as the duplicate of sample EQK26.

The VOA samples were analyzed within the holding time of fourteen (14) days for the water and soil samples. The SVOA and Pest/PCB samples were extracted within the holding time of seven and fourteen (14) days for water and soil samples respectively. The extracts were then promptly analyzed.

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed by: Steffanie N. Tobin Lockheed/ESAT

Date: June 15, 1992

NARRATIVE

CONTRACTOR: WADSWORTH
CASE: 19026
SDG: EQK01

Below is a summary of the out-of-control audits and the possible effect on the data for this case.

1.HOLDING TIME

The laboratory received four (4) water samples and eleven (11) soil samples in good condition for organic analysis. Samples EQK03, EQK04, EQK05, EQK06, EQK07, EQK10, EQK11 and EQK29 were analyzed for VOAs only. The remaining samples were analyzed for full organic analysis. The VOA samples were analyzed within the holding time of fourteen (14) days for the water and soil samples; therefore, the results are acceptable. The SVOA and Pest/PCB samples were extracted within the holding time of seven and fourteen days for the water and soil samples respectively; therefore, the results are acceptable.

2.GC/MS TUNING AND GC PERFORMANCE

GC/MS tuning complied with the mass list and ion abundance criteria for BFB and DFTPP.

DDT and Endrin degradation check using Performance Evaluation Mix of RTX-1701 and RTX-5 columns were acceptable (<20%).

Retention time for DDT met the required minimum retention time (>12 minutes) criteria for both columns.

The Florisil Cartridge Check and Resolution Check met the QC criteria.

For the GPC calibration, the percent recoveries for gamma-BHC, heptachlor, 4,4'-DDT were reported as 114%, 111% and 118% respectively. The QC limits for the above compounds are 80% - 110%. No qualification are needed because the recoveries are within 10% of the upper limits.

Reviewed by: Steffanie N. Tobin__Lockheed/ESAT

Date:__June 15, 1992__

NARRATIVE

CONTRACTOR: WADSWORTH
CASE: 19026
SDG: EQK01

3.CALIBRATION

Initial and continuing calibration standards of VOA, SVOA and Pest/PCB were evaluated for the Target Compounds List (TCLs) and outliers were recorded on the outlier forms included as a part of this narrative.

4.METHOD BLANK

VBLK2 is the low level water method blank for VOAs. VBLK3 and VBLK4 are the low level soil method blanks for the VOA fraction. The water method blank contained 2-butanone. 2-Butanone is the common laboratory contaminant; therefore, the presence of 2-butanone in the associated samples is flagged as non-detected (U) when the sample results are less than 10X the blank results. Please refer to For IV VOAs for the lists of associated samples.

For the SVOA fraction, SBLK1 is the water method blank. SBLK2 and SBLK3 are the low level soil method blanks. Di-n-butylphthalate was detected in all SVOA method blanks. In addition, SBLK1 contained bis(2-ethylhexyl)phthalate and 2 TICs. SBLK2 contained bis(2-ethylhexyl)phthalate and 1 TIC. SBLK3 contained 2 TICs. Di-n-butylphthalate and bis(2-ethylhexyl)phthalate are the common laboratory contaminants; therefore, the presence of these two compounds in the associated samples is flagged as non-detected (U) when the sample results are less than 10X the blank results. Please, refer to Form IV SVOAs for the lists of associated samples.

For the Pest/PCB fraction, PBLKI and PBLKII are the method blanks for the water and soil samples respectively. Heptachlor epoxide was detected in both method blanks. Heptachlor epoxide is not a common laboratory contaminant. The presence of this compound in the associated samples is flagged as non-detected (U) when the sample results are less than 5X the blank results.

Reviewed by: Steffanie N. Tobin ST Lockheed/ESAT

Date: June 15, 1992

5.SURROGATE RECOVERY

The surrogate recoveries for VOA fraction were well within the QC limits.

For the SVOA fraction, the recoveries of S6 in EQK01, EQK08, EQK08RE and EQK09 were less or equal 10%. The recoveries of S5 in samples EQK08, EQK09 were outside the QC limits; therefore, the positive results for the acid fraction of samples EQK01, EQK08, EQK08RE and EQK09 are flagged as estimated (J) and non-detected as unusable (R).

For the Pest/PCB fraction, the recoveries of TCX1 in soil samples EQK26MSD, EQK27 were outside the QC limits. The recoveries of DCB1 in water samples EQK01 and EQK01DL were outside the QC limits. Therefore, the positive results for the EQK26MSD, EQK27, EQK01 and EQK01DL are flagged as estimated (J) and non-detected (UJ).

6.MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Water sample EQK26 was used for the low level water matrix spike/spike duplicate for the VOA, SVOA and Pest/PCB analysis. Soil sample EQK02 was used for the low level soil matrix spike/spike duplicate for the VOA, SVOA and Pest/PCB analysis.

For the VOA fraction, the spike recoveries and %RPD for the water spiked sample (EQK26) were well within the QC limits. The %RPD for 1,1-DCE in the soil spiked sample (EQK02) was outside the QC limits. The positive result for 1,1-DCE in the unspiked sample (EQK02) is flagged as estimated (J) and non-detected (UJ).

For the SVOA fraction, the recoveries of 4-nitrophenol and pentachlorophenol in both spike/spike duplicate were outside the QC limits for the water spiked sample (EQK26). The recovery of 2,4-dinitrotoluene in the spike duplicate was also outside the QC limits. The positive results for 4-nitrophenol, pentachlorophenol and 2,4-dinitrotoluene. in the unspiked sample (EQK26) are flagged

as estimated (J) and non-detected (UJ). The spike recoveries and %RPD for the soil spiked sample (EQK02) were well within the QC limits.

For the Pest/PCB fraction, the spike recoveries and %RPDs were well within the QC limits.

7.FIELD BLANK AND FIELD DUPLICATE

The CRL reports were not included in this data package. Samples EQK28 and EQK29 were identified as the field and trip blanks respectively. Sample EQK27 was identified as the duplicate of sample EQK26. The results for the duplicated samples are some what close. The field blank contained acetone. The trip blank contained acetone and chloroform. Review the results for each sample noted aabove in section 12.

8.INTERNAL STANDARDS

The internal standard areas and IS retention times were well within the QC limits for VOA analysis. For the SVOA fraction, the IS4 recovery for EQK08RE was outside the QC limits. The positive results for the compounds quantitated using IS4 are flagged as estimated (J) and non-detected (UJ). Please, refer to table 4 for the list of compounds associated with IS4. The results from EQK08 should be used in this case since all internal standards were within the QC limits.

9.COMPOUND IDENTIFICATION

Target compounds and TICs were identified by "best fit" library search method.

10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

VOA, SVOA and Pest/PCB Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated; therefore, the data is acceptable.

Reviewed by: Steffanie N. Tobin Lockheed/ESAT

Date: June 15, 1992

The CRQLs were adjusted to reflect all sample dilutions and percent moisture.

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

GC baseline indicated acceptable performance.

12. OVERALL CASE ASSESSMENT

Sample ID#	# of Hits				
	VOA		SVOA		Pest/PCB
	TCL	TIC	TCL	TIC	TCL
EQK01	1	2	12	11	1
EQK01DL	-	-	-	-	1
EQK02	2	0	9	20	1
EQK03	1	0	-	-	-
EQK04	1	0	-	-	-
EQK05	1	0	-	-	-
EQK06	0	0	-	-	-
EQK07	1	0	-	-	-
EQK08	0	0	14	20	2
EQK08RE	-	-	14	20	-
EQK09	1	0	12	20	1
EQK10	1	0	-	-	-
EQK11	0	0	-	-	-
EQK26*	1	0	0	1	1
EQK27*	1	0	1	1	0
EQK28*	1	0	1	1	0
EQK29*	2	0	-	-	-

(-) No analysis was performed
(*) Water sample

Reviewed by: Steffanie N. Tobin Lockheed/ESAT

Date: June 15, 1992

CALIBRATION OUTLIERS
VOLATILE TCL COMPOUNDS

CASE\SAS# 49026 CONTRACTOR WADSWORTH

Instrument# 4/26/92 7:54		Initial Cal			Contin Cal			Contin Cal			Contin Cal			Contin Cal		
Date/Time INC557-2		4/26/92 7:54			5/1/92 20:42											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01															
Bromomethane	0.10															
Vinyl chloride	0.10															
Chloroethane	0.01															
Methylene chloride	0.01															
Acetone	0.01															
Carbon disulfide	0.01															
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
1,2-Dichloroethene (total)																
Chloroform	0.20															
1,2-Dichloroethane	0.10	2.4			3.0	26	T									
2-Butanone	0.01															
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropane																
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
tran-1,3-Dichloropropene	0.10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01															
2-Hexanone	0.01															
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
Toluene-d8																
Bromofluorobenzene																
1,2-Dichloroethane-d4																

Samples affected: EGK26, EGK26MS, EGK26MSD, EGK27, EGK28, EGK29

Reviewer's Init/Date JT 6/10/92

* These flags should be applied to the analytes on the sample data sheets.

\# Minimum Relative Response Factor

CALIBRATION OUTLIERS
VOLATILE TCL COMPOUNDS

CASE\SAS# 19026 CONTRACTOR WADSWORTH

Instrument# INCCST-1		Initial Cal			Contin Cal			Contin Cal			Contin Cal			Contin Cal		
Date/Time 4/24/92 0 45		4/24/92 0 45			5/4/92	8:32		5/4/92	9:40							
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01															
Bromomethane	0.10	.15			.21			.11	26	J						
Vinyl chloride	0.10															
Chloroethane	0.01	.08			0.58	29	J	053	34	J						
Methylene chloride	0.01															
Acetone	0.01															
Carbon disulfide	0.01															
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
1,2-Dichloroethene (total)																
Chloroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0.01	.075			0.61			0.44	42	J						
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropane																
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
tran-1,3-Dichloropropene	0.10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01	0.62			0.45	27	J	0.36	42	J						
2-Hexanone	0.01	0.36			0.27	30	J	0.21	46	J						
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
Toluene-d8																
Bromofluorobenzene																
1,2-Dichloroethane-d4																

Samples affected

EGK01	EGK02MSD
EGK04	EGK06
EGK05	EGK09MK
EGK14	
EGK10	
EGK11	
EGK02	
EGK03	
EGK05	
EGK07	

Reviewer's Init/Date 5/6/92

* These flags should be applied to the analytes on the sample data sheets.

\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMVOLATILE TCL COMPOUNDS
(Page 1)

CASE\SAS#: 19026 CONTRACTOR: WASWC

EXTRCB 5T 6/11/92

Instrument#		Initial Cal			Contin Cal.			Contin Cal.			Contin Cal.			Contin. Cal		
Date/Time: 2/24/92 1534		2/24/92 1524			5/7/92 1027			5/8/92 1042								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
1,3-Dichlorobenzene																
1,4-Dichlorobenzene																
1,2-Dichlorobenzene																
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01															
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01	0.17			0.08	128	J	0.39	134	J						
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01															
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01	0.44			0.36			0.30	32	J						
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20	0.27			0.21			0.19	28	J						
3-Nitroaniline	0.01	0.50			0.35			0.22	26	J						
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01	0.14			0.10	28	J	0.07	48	J						
4-Nitrophenol	0.01	0.20			0.16			0.13	35	J						
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20	0.41			0.28	38	J	0.28	28	J						

Affected samples:

EQK26	EQK01
EQK26MS	EQK09
EQK26MSD	EQK02
EQK27	EQK02MS
EQK28	EQK02MSD
EQK08	

Reviewer's Init/Date: 5T 6/11/92

* These flags should be applied to the analytes on the sample data sheets.

\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMVOLATILE TCL COMPOUNDS
(Page 2)

CASE\SAS#: 19026 CONTRACTOR: WADSWORTH

EXAROS 7-6-1-92

Instrument# ~~FO8204EL~~		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 5/24/92 1534		5/24/92 1534			5/27/92 1027			5/28/92 742								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01	0.30			0.21	31	J	0.18	40	J						
4,6-Dinitro-2-methylphenol	0.01							0.07	36	J						
N-nitrosodiphenylamine	0.01	0.28			0.41	42	J	~~0.57~~ 0.4	36	J						
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05	0.14			0.10	33	J	0.0971	33	J						
Phenanthrene	0.70															
Anthracene	0.70															
Carbazole		0.46			0.71	36	J	0.72								
Di-n-butylphthalate	0.01															
Fluoranthene	0.60	1.2			0.84	28	J	0.88								
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3,3'-Dichlorobenzidine	0.01	0.8			0.30	64	J	0.30	64	J						
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01															
Di-n-octyl phthalate	0.01															
Benzo(b)fluoranthene	0.70															
Benzo(k)fpuoranthene	0.70															
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50															
Dibenz(a,h)anthrancene	0.40															
Benzo(g,h,i)perylene	0.50															
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60															
2,4,6-Tribromophenol	0.01				0.1	30	J									
2-Chlorophenol-d4																
1,2-Dichlorobenzene-d4																

Reviewer's Init/Date: 5-6-1992

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMVOLATILE TCL COMPOUNDS
(Page 1)

CASE\SAS#: [illegible] CONTRACTOR: [illegible]

Instrument# [illegible]	Initial Cal				Contin Cal.			Contin Cal.			Contin Cal			Contin Cal		
Date/Time: [illegible]	[illegible]				[illegible]			[illegible]								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
1,3-Dichlorobenzene																
1,4-Dichlorobenzene																
1,2-Dichlorobenzene																
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01															
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01															
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01															
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01															
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20	0.8		J	0.18		J	0.19		J						
3-Nitroaniline	0.01															
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01	0.06	21	J	0.05	27	J	0.02								
4-Nitrophenol	0.01	0.04			0.03			0.12	37	J						
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples: [illegible]

Reviewer's Init/Date: [illegible]

* These flags should be applied to the analytes on the sample data sheets.

\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMVOLATILE TCL COMPOUNDS
(Page 2)

CASE\SAS#: 19026 CONTRACTOR: WADSWORTH

EXTRCD 5/11/92

Instrument# ~~3F0514~~ ST		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 5/14/92 13.01		5/14/92 13 01			5/15/92 8.[illegible]			5/18/92 13.49								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0 40															
Fluorene	0.90															
4-Nitroaniline	0.01	0 14			0 10	28	T	0 18								
4 6-Dinitro-2-methylphenol	0 01															
N-nitrosodiphenylamine	0 01															
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05															
Phenanthrene	0.70															
Anthracene	0.70															
Carbazole																
Di-n-butylphthalate	0 01															
Fluoranthene	0 60															
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3 3'-Dichlorobenzidine	0 01															
Benzo(a)anthracene	0 80															
Chrysene	0 70															
bis(2-Ethylhexyl)phthalate	0 01															
Di-n-octyl phthalate	0 01															
Benzo(b)fluoranthene	0 70															
Benzo(k)fpuoranthene	0.70															
Benzo(a)pyrene	0 70															
Indeno(1,2,3-cd)pyrene	0 50															
Dibenz(a h)anthrancene	0 40															
Benzo(g,h,i)perylene	0 50															
Nitrobenzene-d5	0 01															
2-Fluorobiphenyl	0 70															
Terphenyl-d14	0.50															
Phenol-d5	0 80															
2-Fluorophenol	0 60															
2 4 6-Tribromophenol	0 01															
2-Chlorophenol-d4																
1 2-Dichlorobenzene-d4																

Reviewer's Init/Date: ST 6/1/92

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIERS
PEST/PCB TCL COMPOUNDS

CASE\SAS#: 19026 **CONTRACTOR:** WADSWORTH

Column: RTX1701

Instrument#: HP5890XA	Init. Cal.		Cont. Cal.		Cont. Cal.		Cont.Cal	
Date/Time 5/13/92 16:37	5/13/92 16:37		5/19/92 3:28		5/19/92 19:25			
	%RSD	*	%RPD	*	%RPD	*	%RPD	*
Alpha-BHC								
Beta-BHC								
Delta-BHC								
Gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endosulfan sulfate								
4,4'-DDT								
Methoxychlor								
Endrin ketone								
Endrin aldehyde								
Alpha chlordane								
Gamma chlordane								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								
Toxaphene								

Affected samples:

EQK26	EQK27
EQK26MS	EQK28
EQK26MSD	EQK01DL
	EQK01
	EQK05
	EQK09
	EQK02
	EQK02MS
	EQK02MSD

Pest/PCB

Reviewer's Initial/Date SR 6/11/92

3/90 Rev

* These flags should be applied to the analytes on the Sample Data Sheets.

CALIBRATION OUTLIERS
PEST/PCB TCL COMPOUNDS

CASE\SAS#: 19026 **CONTRACTOR:** WARWCRTH

Column: RTX-5

Instrument#: HP5890B	Init. Cal.		Cont. Cal.		Cont. Cal.		Cont.Cal	
Date/Time 5/13/92 16:57	5/13/92 16:57		5/19/92 3:26		5/19/92 14:25			
	%RSD	*	%RPD	*	%RPD	*	%RPD	*
Alpha-BHC								
Beta-BHC								
Delta-BHC								
Gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endosulfan sulfate								
4,4'-DDT								
Methoxychlor								
Endrin ketone								
Endrin aldehyde								
Alpha chlordane								
Gamma chlordane								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								
Toxaphene								

Affected samples:		
	EQK26	EQK27
	EQK26MS	EQK28
	EQK26MSD	EQK01DL
		EQK01
		EQK08
		EQK09
		EQK02
		EQK02MS
		EQK02MSD

Pest/PCB

Reviewer's
Initial/Date ST 6/11/92

3/90 Rev

* These flags should be applied to the analytes on the Sample Data Sheets.

DATA REPORTING QUALIFIERS
(page 1)

For reporting results to EPA, the following result qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE-if the results is a value greater than or equal to the Contract Required Quantitation Limit (CRQL), report the value.

U - Indicates compound was analyzed for but not detected. The sample Quantitation Limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if thee sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value <u>must</u> also be adjusted for percent moisture. For example, if the sample had 24% moisture <u>and</u> a 1 to 10 dilution factor, the Sample Quantitation Limit for phenol (330 U) would be corrected to:

$$\frac{(330\ U) \times df}{D} \qquad \text{where } D = \frac{100 - \%\ \text{moisture}}{100}$$

and df = dilution factor

$$\text{at } 24\%\ \text{moisture, } D = \frac{100 - 24}{100} = 0.76$$

$$\frac{(330\ U) \times 10}{.76} = 4300\ U \text{ rounded to the appropriate number of significant figures}$$

For soil samples subjected to GPC clean-up procedures, the extract must be concentrated to 0.5 ml, and the sensitivity of the analysis is not compromised by the cleanup procedures. Therefore, the CRQL values will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume, this fact be accounted for in reporting the Sample Quantitation Limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit bur greater than zero. For example, if the sample quantitation limit is 10 ug/L, but a concentration of 3 ug/L is calculated, report it is as 3J. The Sample Quantitation Limit must be adjusted for dilution as discussed for the U flag. The J flag is also applied to pesticide/Aroclor results where the pesticide/Aroclor is confirmed to be present but the concentration is less than the CRQL.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds. Where the identification is based on a mass spectral library search. It is applied to all TIC results.

DATA REPORTING QUALIFIERS
(page 2)

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".

C - This flag applies to pesticide results where identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but unsuccessful, do not apply this flag, instead use a laboratory-defined, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for the specific analysis. This flag will not apply to pesticide/PCBs analyzed by GC/MS methods. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed according to the specifications. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG Narrative. If more than one flag is required, use "Y" and "Z", as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A", "B" and "D" flags for some sample. The laboratory-defined are limited to letters "X", "Y" and "Z".

TABLE 4

VOLATILE INTERNAL STANDARDS WITH CORRESPONING TCL ANALYTES ASSIGNED FOR QUANTITATION

Bromochloromathane	1,4-Difluorobenzene	Chlorobenzene-d5
Chloromethane	2-Butanone	2-Hexanone
Bromomethane	1,1,1-Trichloroethane	4-Methyl-2-pentanone
Vinyl chloride	Carbon tetrachloride	Tetrachloroethene
Chloroethane	Vinyl acetate	1,1,2,2-Tetrachloroethane
Methylene chloride	Bromodichloromethane	Toluene
Acetone	1,2-Dichloropropane	Chlorobenzene
Carbon disulfide	trans-1,3-Dichloropropane	Ethylbenzene
1,1-Dichloroethene	Trichloroethene	Styrene
1,1-Dichloroethane	Dibromochloromethane	Xylene (total)
1,2-Dichloroethene (total)	1,1,2-Trichloroethane	Bromofluorobenzene (surr)
Chloroform	Benzene	Toluene-d8 (surr)
1,2-Dichloroethane	cis-1,3-Dichloropropene	
1,2-Dichloroethane-d4 (surr)	Bromoform	

SEMIVOLATILE INTERNAL STANDARDS WITH CORRESPONING TCL ANALYTES ASSIGNED FOR QUANTITATION

1,4-Dichlorobenzene-d4	Naphthalene-d8	Acenaphthene-d10	Phenanthrene-d10	Chrysene-d12	Perylene-d12
Phenol	Nitrobenzene	Hexachlorocyclopentadiene	4,6-Dinitro-2-methylphenol	Pyrene	Di-n-octyl phthalate
bis(2-Chloroethyl)ether	Isophorone	2,4,6-Trichlorophenol	N-nitroso-di-phenylamine	Butylbenzyl phthalate	Benzo(b)fluoranthene
2-Chlorophenol	2-Nitrophenol	2,4,5-Trichlorophenol	1,2-Diphenylhydrazine	3,3'-Dichlorobenzidine	Benzo(k)fluoranthene
1,3-Dichlorobenzene	2,4-Dimethylphenol	2-Chloronaphthalene	4-Bromophenyl phenyl ether	Benz(a)anthracene	Benzo(a)pyrene
1,4-Dichlorobenzene	Benzoic acid	2-Nitroaniline	Hexachlorobenzene	bis(2-Ethylhexyl)phthalate	Indeno(1,2,3-cd)pyrene
Benzyl alcohol	bis(2-Chloroethoxy)methane	Dimethyl phthalate	Pentachlorophenol	Chrysene	Dibenz(a,h)anthracene
1,2-Dichlorobenzene	2,4-Dichlorophenol	Acenaphthylene	Phenanthrene	Terphenyl-d14 (surr)	Benzo(g,h,i)perylene
2-Methylphenol	1,2,4-Trichlorobenzene	3-Nitroaniline	Anthracene		
bis(2-Chloroisopropyl)ether	4-Chloroaniline	Acenaphthene	Di-n-butyl phthalate		
4-Methylphenol	Hexachlorobutadiene	2,4-Dinitrophenol	Fluoranthene		
N-nitroso-di-n-propylamine	4-Chloro-3-methylphenol	4-Nitrophenol			
Hexachloroethane	2-Methylnaphthalene	Dibenzofuran			
2-Fluorophenol (surr)	Nitrobenzene-d5 (surr)	2,4-Dinitrotoluene			
Phenol-d6 (surr)		2,6-Dinitrotoluene			
		Diethyl phthalate			
		4-Chlorophenyl phenyl ether			
		Fluorene			
		4-Nitroaniline			
		2-Fluorobiphenyl (surr)			
		2,4,6-Tribromophenol (surr)			

WADSWORTH/ALERT Laboratories
Division of Ensco Incorporated

Corporate and Laboratory
4101 Shuns Drive NW
North Canton OH 44720
216-497-9396
FAX 216-497-0772

RECEIVED
JUN 04 1992
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

SDG NARRATIVE

This narrative pertains to case number 19026, which was completed by WADSWORTH/ALERT Laboratories under contract number 68-D1-0085. The following samples are associated with this case under SDG EQK01:

EPA Sample Number	Date Sample Received
EQK01	4-29-92
EQK04	4-29-92
EQK08	4-29-92
EQK09	4-29-92
EQK10	4-29-92
EQK11	4-29-92
EQK02	4-29-92
EQK03	4-29-92
EQK05	4-29-92
EQK06	4-29-92
EQK07	4-29-92
EQK26	4-30-92
EQK27	4-30-92
EQK28	4-30-92
EQK29	4-30-92

The following is a listing of the pH value for each volatile water sample as received by the laboratory:

EPA Sample Number	pH
EQK26	1.0
EQK27	1.0
EQK28	1.0
EQK29	1.0

During the volatile analysis of samples EQK01, EQK02, EQK03, EQK06, EQK07, and EQK11, a "column bleed" peak was encountered which should not be mistaken for a TIC. A spectrum of the peak is enclosed with each sample as a verification of the peak's identity.

A semivolatile re-extraction was required for sample EQK08 due to poor surrogate recoveries. The re-extracted sample also had internal standard areas outside of contract required levels. Both the original and re-extracted sample data for EQK08 are included in the data package with the re-extracted sample appended with an "RE" suffix.

A Corning Company

Laboratories
Pittsburgh PA
412-826-5477

Tampa FL
813-621-3784

Semivolatile samples EQK01 and EQK09 were not re-extracted since the original analyses were dilutions. Please refer to page D-57/SV of the current SOW.

Pesticide/PCB sample EQK01 was diluted in order to eliminate a matrix effect which was interfering in the quantitation of the analytes.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Ron Gibas

Ron Gibas
CLP Manager
6/3/92

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No._____ CERCLIS No. (OH)

Case No. 19026 Site Name Location: Satralloy

Contractor or EPA Lab: Clayton Data User: PRC

No. of Samples: 12 Date Samples or Data Received: June 4, 1992

Have Chain-of-Custody records been received? YES____ NO ✓
Have traffic reports or packing lists been received? YES____ NO ✓
If no, are traffic report or packing list numbers written on the chain-of-custody record? YES____ NO____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? YES ✓ NO____
No. of samples claimed: 12 No. of samples received: 12

Received by: A.D. Harris Date: June 4, 1992

Received by LSSS: DMM Date: 6-4-92

Review started: 11 June 1992 Reviewer Signature: Al Vernuto

Total time spent on review: 18 hrs Date review completed: 15 June 1992

Copied by:_____ Date:_____

Mailed to user by: Lynette Burnett Date: 6-19-92

DATA USERS:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, 5SCRL

Data received by: Mildred Jackrenge Date: JUN 22 1992

Data review received by:_____ Date:_____
Inorganic Data Complete[ ] Suitable for Intended Purpose[ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose[ ] list
Dioxin Data Complete [ ] Suitable for Intended Purpose[ ] prblms
SAS Data Complete [ ] Suitable for Intended Purpose[ ] below.
PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files Date:_____

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

JUN 19 1992
FILED

DATE: JUN 16 1992

SUBJECT: Review of Region 5 data for Satralloy SSI

FROM: Charles Elly, Director Chuck Elly
Region 5 Central Regional Laboratory

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF0920
Sample Numbers: 92ZF90S01-S04, D01, R01
Parameter(s): ICP
Laboratory: CRL

Results Status:

(X) DATA ACCEPTABLE FOR USE*
( ) DATA QUALIFIED AS TO USE
( ) DATA UNACCEPTABLE FOR USE

* For data acceptability requirements, refer to the method capability statement for the methods referenced.

Comments by the Quality Control Coordinator:

If there are any questions regarding the data, refer them to James Adams the Quality Control Coordinator, at 353-9604

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
(5SCRL)

TRANSMITTED BY
JUN 16 1992
U.S. EPA CENTRAL REGIONAL LAB

RECEIVED BY/DATE: Mildred Jackson JUN 19 1992
Comments:

R. Dilg
6-9-92

ICAP CASE NARRATIVE for SF0918, SF0919, SF0920

Concerning the reporting of magnesium results, ICAP analysis run number 1023 was used. For this run the high aqc check solution gave a " C 0.0000 " readout response each time it was analyzed. However, the lower level magnesium readout consistently gave readings for the high aqc solution that were within the control limits for the high aqc check solution (60 mg/L +/- 10%). Thus the lower level magnesium standardized channel was used to report all magnesium results.

R. Dilg
6-5-92
Jun
11 June 92

SAMPLE REPORT

Sample SF0920 92ZF21301 Operator

Date analyzed 06/05/92 Correction 1.22000 File name RN1027

Element	Concentration	Units
Silica	6.0 U	micrograms/liter
Aluminum	80.0 U	micrograms/liter
Barium	25.0	micrograms/liter
Beryllium	1.0 U	micrograms/liter
Calcium	114000.	micrograms/liter
Cobalt	6.0 U	micrograms/liter
Chromium	8.0 U	micrograms/liter
Copper	6.0 U	micrograms/liter
Magnesium	17800.	micrograms/liter
Iron	31.0 U	micrograms/liter
Potassium	5000. U	micrograms/liter
Manganese	5.0 U	micrograms/liter
Sodium	5600.	micrograms/liter
Nickel	15.0 U	micrograms/liter
Vanadium	5.0 U	micrograms/liter
Zinc	40.0 U	micrograms/liter

R. Dilg
6-5-92

jvm
11 Jun 92

SAMPLE REPORT

Sample [illegible] [illegible]D01 Operator

Date analyzed 06/05/92 Correction 1.22000 File name RN1023

Element	Concentration	Units
Silver	6.0 U	micrograms/liter
Aluminum	80.0 U	micrograms/liter
Barium	25.1	micrograms/liter
Beryllium	1.0 U	micrograms/liter
Calcium	112000.	micrograms/liter
Cobalt	6.0 U	micrograms/liter
Chromium	8.0 U	micrograms/liter
Copper	6.0 U	micrograms/liter
Magnesium	20200.	micrograms/liter
Iron	30.0 U	micrograms/liter
Potassium	5100. U	micrograms/liter
Manganese	5.0 U	micrograms/liter
Sodium	5750.	micrograms/liter
Nickel	13.0 U	micrograms/liter
Vanadium	5.0 U	micrograms/liter
Zinc	40.0 U	micrograms/liter

R. Dilg
6-5-92
JVM
17 June 92

SAMPLE REPORT

Sample SP0920 02ZP90002 Operator

Date analyzed 06/05/92 Correction 1.22000 File name RM1023

Element	Concentration	Units
Silver	6.0 U	micrograms/liter
Aluminum	80.0 U	micrograms/liter
Barium	825.	micrograms/liter
Beryllium	1.0 U	micrograms/liter
Calcium	90600.	micrograms/liter
Cobalt	6.0 U	micrograms/liter
Chromium	6.0 U	micrograms/liter
Copper	6.0 U	micrograms/liter
Magnesium	[illegible]	micrograms/liter
Iron	[illegible]	micrograms/liter
Potassium	[illegible] U	micrograms/liter
Manganese	1[illegible].	micrograms/liter
Sodium	[illegible]	micrograms/liter
Nickel	15.1 U	micrograms/liter
Vanadium	5.0 U	micrograms/liter
Zinc	40.0 U	micrograms/liter

R. Dilg
6-5-92

JVM
11 June 92

SAMPLE REPORT

Sample [illegible] [illegible] Operator

Date analyzed [illegible]/13/92 Correction 1.22000 File name RN1023

Element	Concentration	Units
Silver	1.0 U	micrograms/liter
Aluminum	80.0 U	micrograms/liter
Barium	47.1	micrograms/liter
Beryllium	1.0 U	micrograms/liter
Calcium	166000.	micrograms/liter
Cobalt	6.0 U	micrograms/liter
Chromium	8.0 U	micrograms/liter
Copper	6.0 U	micrograms/liter
Magnesium	~~[illegible]~~ 34300.	micrograms/liter
Iron	1[illegible]	micrograms/liter
Potassium	[illegible] U	micrograms/liter
Molybdenum	7.0 U	micrograms/liter
Sodium	1[illegible]	micrograms/liter
Nickel	15.0 U	micrograms/liter
Vanadium	5.0 U	micrograms/liter
Zinc	40.0 U	micrograms/liter

R. Dilg
6-5-92

JVM
11 June 92

SAMPLE REPORT

Sample [illegible] [illegible] Operator

Date analyzed 06/05/92 Correction 1.[illegible] File name RN102[illegible]

Element	Concentration	Units
Silver	6.0 U	micrograms/liter
Aluminum	80.0 U	micrograms/liter
Barium	1150.	micrograms/liter
Beryllium	1.0 U	micrograms/liter
Calcium	45800.	micrograms/liter
Cobalt	6.0 U	micrograms/liter
Chromium	8.0 U	micrograms/liter
Copper	4.0 U	micrograms/liter
Magnesium	[illegible]	micrograms/liter
Iron	[illegible]	micrograms/liter
Potassium	[illegible]	micrograms/liter
Manganese	71.0	micrograms/liter
Sodium	[illegible]	micrograms/liter
Nickel	15.0 U	micrograms/liter
Vanadium	5.0 U	micrograms/liter
Zinc	40.0 U	micrograms/liter

R. Dilg
6-5-92
NM
11 June 92

SAMPLE REPORT

Sample [illegible] 922F90R01 Operator

Date analyzed 06/05/92 Correction 1.22000 File name RN1[illegible]

Element	Concentration		Units
Silver	6.0	U	micrograms/liter
Aluminum	50.0	U	micrograms/liter
Barium	6.0	U	micrograms/liter
Beryllium	1.0	U	micrograms/liter
Calcium	500.	U	micrograms/liter
Cobalt	6.0	U	micrograms/liter
Chromium	8.0	U	micrograms/liter
Copper	6.0	U	micrograms/liter
Magnesium	100.	U	micrograms/liter
Iron	30.0	U	micrograms/liter
Potassium	5000.	U	micrograms/liter
Manganese	5.0	U	micrograms/liter
Sodium	1[illegible]00.	U	micrograms/liter
Nickel	15.0	U	micrograms/liter
Vanadium	5.0	U	micrograms/liter
Zinc	40.0	U	micrograms/liter

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No._____ CERCLIS No. (OH)

Case No. 19026 SAS670249 Site Name Location: Satralloy

Contractor or EPA Lab: S-Cubed Data User: PRC

No. of Samples: 6 Date Samples or Data Received: 5-13-92

Have Chain-of-Custody records been received? YES____ NO ✓
Have traffic reports or packing lists been received? YES____ NO ✓
If no, are traffic report or packing list numbers written on the chain-of-custody record? YES____ NO____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? YES ✓ NO____
No. of samples claimed: 6 No. of samples received: 6

Received by: Lynette Burnett Date: 5-13-92

Received by LSSS: DMM Date: 5-13-92

Review started: 5/19/92 Reviewer Signature: Stephanie N. Tobin

Total time spent on review: 10 Date review completed: 5/21/92

Copied by: Eric Date: 5-21-92

Mailed to user by: A D Harris Date: 5-26-92

DATA USERS:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, 5SCRL

Data received by: Bilbred Jackson Date: MAY 29 1992

Data review received by: _____ Date: _____
Inorganic Data Complete[ ] Suitable for Intended Purpose[ ] ✓if OK
Organic Data Complete [ ] Suitable for Intended Purpose[ ] list
Dioxin Data Complete [ ] Suitable for Intended Purpose[ ] prblms
SAS Data Complete [ ] Suitable for Intended Purpose[ ] below.
PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files Date: _____

Pg 1 of 10

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 5/22/92

SUBJECT: Review of Region V CLP Data
Received for Review on May 13, 1992

FROM: Charles T. Elly, Director(5SCRL)
Central Regional Laboratory
Patrick J. Chunlla for

TO: Data User: PRC

We have reviewed the data for the following case(s).

SITE NAME: Satralloy (OH) SMO Case No. 19026 SAS6702H

EPA Data Set No. _____ No. of Samples 6 DU/Activity Numbers 1

CRL No. _____

SMO Traffic No. EQK 20-25 + (PW015, PU833, PR886)

CLP Laboratory: S-Cubed Hrs. for Review 10 hrs + 3 = 13 DMM

Following are our findings:

See Attached Review - BC

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications.
( ) Data are preliminary - pending verification by laboratory.
( ) Data are unacceptable.

cc: Elenor McLean, Sample Mgmt. Office
Edward Kantor, EMSL-Las Vegas

NARRATIVE

CONTRACTOR: S-CUBED
CASE: 19026
SDG: 2900
SAS: 6702HQ

The samples were collected on 04/28/92. The laboratory received six (6) water samples in good condition for full organic analysis following the Low Concentration Water Analysis. In addition, three PE samples were also included for this case (PW015 for VOA, PU833 for SVOA and PR886 for Pest/PCB).

Lab Control Samples were analyzed instead of the spike/spike duplicate samples for VOA, SVOA and Pest/PCB analysis.

The CRL reports were not included in this data package. None of the samples in this case were identified as the field blank or field duplicate.

The VOA samples were analyzed within the holding time of fourteen (14) days. The SVOA and Pest/PCB samples were extracted within the holding time of fourteen (14) days. The extracts were then promptly analyzed.

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed by: Steffanie N. Tobin Lockheed/ESAT

Date: May 21, 1992

Below is a summary of the out-of-control audits and the possible effect on the data for this case.

1.HOLDING TIME

The laboratory received six (6) water samples for full organic analysis and three (3) PE samples. The VOA samples were analyzed within the holding time of fourteen (14) days; therefore, the results are acceptable. The SVOA and Pest/PCB samples were extracted within the holding time of fourteen (14) days. The extracts were then promptly analyzed; therefore, the results are acceptable.

2.GC/MS TUNING AND GC PERFORMANCE

GC/MS tuning complied with the mass list and ion abundance criteria for BFB and DFTPP.

DDT and Endrin degradation check using Performance Evaluation Mix of DB-1701 and DB-608 columns were acceptable (<20%).

Retention time for DDT met the required minimum retention time (>12 minutes) criteria for both columns.

The Florisil Cartridge Check and Resolution Check met the QC criteria.

3.CALIBRATION

Initial and continuing calibration standards of VOA, SVOA and Pest/PCB were evaluated for the Target Compounds List (TCLs) and outliers were recorded on the outlier forms included as a part of this narrative.

4.METHOD BLANK

VBLK01 and VBLK02 are the low level method blanks for VOAs. Both of the blanks were clean. EBW0504 is the method blank for the SVOA fraction and it was found to be clean. EBW0430 is the method blank for the Pest/PCB fraction. It contained no pesticide residues.

Reviewed by: Steffanie N. Tobin Lockheed/ESAT

Date: May 21, 1992

5.SYSTEM MONITORING COMPOUND or SURROGATE RECOVERY

The system monitoring compound for VOAs were well within the QC limits.

The surrogate recoveries for SVOA fraction met the QC criteria. For the Pest/PCB fraction, sample EQK22 had TCX1 and TCX2 outside the QC limits; therefore, the positive results for EQK22 are flagged as estimated (J) and non-detected are flagged with estimated quantitation limits (UJ).

6.LABORATORY CONTROL SAMPLES

The Laboratory Control Samples for VOA, SVOA and Pest/PCB fractions were well within the QC limits.

7.FIELD BLANK AND FIELD DUPLICATE

The CRL reports were not included in this case. None of the samples in this case were identified as the field blanks or field duplicates.

8.INTERNAL STANDARDS

The internal standard areas and IS retention times were well within the QC limits for VOA and SVOA analysis.

9.COMPOUND IDENTIFICATION

Target compounds and TICs were identified by "best fit" library search method.

10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

VOA, SVOA and Pest/PCB Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated; therefore, the data is acceptable.

The CRQLs were adjusted to reflect all sample dilutions.

Reviewed by: Steffanie N. Tobin Lockheed/ESAT

Date: May 21, 1992

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

GC baseline indicated acceptable performance.

12. OVERALL CASE ASSESSMENT

Sample ID#	# of Hits				
	VOA		SVOA		Pest/PCB
	TCL	TIC	TCL	TIC	TCL
PW015	7	0	-	-	-
PU833	-	-	8	1	-
PR886	-	-	-	-	7
EQK20	0	1	0	0	0
EQK21	0	0	0	0	0
EQK22	1	0	0	0	0
EQK23	1	0	0	0	0
EQK24	1	0	0	0	0
EQK25	0	0	0	0	0

(-) No analysis was performed

Reviewed by: Steffanie N. Tobin Lockheed/ESAT

Date: May 21, 1992

CALIBRATION OUTLIERS
LOW CONC. WATER VOLATILE TCL COMPOUNDS

CASE\SAS# 19026 | 6702HQ

CONTRACTOR S-CUPED

Instrument# HP4		Initial Cal			Contin Cal.			Contin Cal			Contin Cal			Contin Cal		
Date/Time 4/29/92 2900		4/29/92 2900			4/30/92 1131			5/1/92 1754								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01	0.09			0.12	28	J									
Bromomethane	0.10															
Vinyl chloride	0.10															
Chloroethane	0.01															
Methylene chloride	0.01	0.31	41	J												
Acetone	0.01	0.03	33	J	0.02	53	J									
Carbon disulfide	0.01	0.66						0.48	27	J						
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
cis-1,2-Dichloroethene	0.10															
trans-1,2-Dichloroethene	0.10															
Chloroform	0.20															
1,2-Dichloroethane	0.10							0.45	28	J						
2-Butanone	0.01	0.34			0.02	46	J	0.2	32	J						
Bromochloromethane	0.10															
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropane	0.01															
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
tran-1,3-Dichloropropene	0.10															
Bromoform	0.10							0.24	26	J						
4-Methyl-2-pentanone	0.01															
2-Hexanone	0.01	0.09			0.06	38	J	0.06	30	J						
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50															
1,2-Dibromoethane	0.10															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
1,3-Dichlorobenzene	0.60															
1,4-Dichlorobenzene	0.50															
1,2-Dichlorobenzene	0.40	1.45						1.0	32	J						
1,2-Dibromo-3-chloropropane	0.10															
Bromofluorobenzene	0.40															

Samples affected

Reviewer's Init/Date ST 5/19/92

* These flags should be applied to the analytes on the sample data sheets

\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMVOLATILE TCL COMPOUNDS
(Page 1)

CASE\SAS#: 19026 / 6702HCQ

CONTRACTOR: S-CUBED

Instrument# HP1		Initial Cal. 5/20/92			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 3/23/92 2950		3/23/92 2950			5/5/92 1434											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
1,3-Dichlorobenzene																
1,4-Dichlorobenzene																
1,2-Dichlorobenzene																
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01															
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01															
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01	0.23	32	J												
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01	14	39	J												
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01	0.2	36	J	0.26	36	J									
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01	0.17	39	J												
4-Nitrophenol	0.01															
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples:

Reviewer's Init/Date: ST 5/20/92

* These flags should be applied to the analytes on the sample data sheets.

\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMVOLATILE TCL COMPOUNDS
(Page 2)

CASE\SAS#: 19026 / 6702HQ

CONTRACTOR: S-CUBED

Instrument# HP1		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin Cal.			Contin. Cal.		
Date/Time: 3/23/92		3/23/92			5/5/92 14 34											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf-	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0 40															
Fluorene	0.90															
4-Nitroaniline	0.01	0 15	55	J												
4,6-Dinitro-2-methylphenol	0.01															
N-nitrosodiphenylamine	0.01															
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05															
Phenanthrene	0.70															
Anthracene	0.70															
Carbazole																
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3,3'-Dichlorobenzidine	0 01															
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01															
Di-n-octyl phthalate	0 01															
Benzo(b)fluoranthene	0.70															
Benzo(k)fpuoranthene	0.70															
Benzo(a)pyrene	0 70															
Indeno(1,2,3-cd)pyrene	0.50															
Dibenz(a,h)anthrancene	0.40															
Benzo(g,h,i)perylene	0 50															
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0 70															
Terphenyl-d14	0.50															
Phenol-d5	0 80															
2-Fluorophenol	0.60															
2,4,6-Tribromophenol	0.01															
2-Chlorophenol-d4																
1,2-Dichlorobenzene-d4																

Reviewer's Init/Date: ST 5/20/92

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIERS
PEST/PCB TCL COMPOUNDS

CASE\SAS#: 19026/6702HQ **CONTRACTOR:** S-CUBED

Column: DB-1701

Instrument#: 2	Init. Cal.		Cont. Cal.		Cont. Cal.		Cont.Cal	
Date/Time 4/30/92 11.13	4/30/92 11.13		5/2/92 0.26		5/2/92 1634			
	%RSD	*	%RPD	*	%RPD	*	%RPD	*
Alpha-BHC								
Beta-BHC								
Delta-BHC								
Gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endosulfan sulfate								
4,4'-DDT								
Methoxychlor								
Endrin ketone								
Endrin aldehyde								
Alpha chlordane								
Gamma chlordane								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								
Toxaphene								

Affected samples:

	PR836		
	EQK20		
	EQK21		
	EQK22		
	EQK23		
	EQK24		
	EQK25		

Pest/PCB

Reviewer's
Initial/Date ST 5/20/92

3/90 Rev

* These flags should be applied to the analytes on the Sample Data Sheets.

CALIBRATION OUTLIERS
PEST/PCB TCL COMPOUNDS

CASE\SAS#: 9026/ 6702HQ **CONTRACTOR:** S-CUPTED

Column: DB-608

Instrument#: 2	Init. Cal.		Cont. Cal.		Cont. Cal.		Cont.Cal	
Date/Time 4/2/92 11:13	4/30/92 11:13		5/2/92 0:26		5/2/92 16:34			
	%RSD	*	%RPD	*	%RPD	*	%RPD	*
Alpha-BHC								
Beta-BHC								
Delta-BHC								
Gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endosulfan sulfate								
4,4'-DDT								
Methoxychlor								
Endrin ketone								
Endrin aldehyde								
Alpha chlordane								
Gamma chlordane								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								
Toxaphene								

Affected samples:		
	PR861 ST 5/20/92	~~EM295~~ ST 5/20/92
	PP127	P2886
	~~EM288~~	EQK20
	~~EM289~~	EQK21
	~~EM292~~	EQK22
	~~EM294~~	EQK23
		EQK24
		EQK25

Pest/PCB

Reviewer's
Initial/Date ST 5/20/92

3/90 Rev

* These flags should be applied to the analytes on the Sample Data Sheets.

DATA REPORTING QUALIFIERS
(page 1)

For reporting results to EPA, the following result qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE-if the results is a value greater than or equal to the Contract Required Quantitation Limit (CRQL), report the value.

U - Indicates compound was analyzed for but not detected. The sample Quantitation Limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if thee sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the Sample Quantitation Limit for phenol (330 U) would be corrected to:

$$\frac{(330\ U) \times df}{D} \qquad \text{where } D = \frac{100 - \%\ \text{moisture}}{100}$$

and df = dilution factor

$$\text{at } 24\%\ \text{moisture, } D = \frac{100 - 24}{100} = 0.76$$

$$\frac{(330\ U) \times 10}{.76} = 4300\ U \text{ rounded to the appropriate number of significant figures}$$

For soil samples subjected to GPC clean-up procedures, the extract must be concentrated to 0.5 ml, and the sensitivity of the analysis is not compromised by the cleanup procedures. Therefore, the CRQL values will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume, this fact be accounted for in reporting the Sample Quantitation Limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit bur greater than zero. For example, if the sample quantitation limit is *10 ug/L, but a concentration of 3 ug/L is calculated, report it is as 3J. The Sample Quantitation* Limit must be adjusted for dilution as discussed for the U flag. The J flag is also applied to pesticide/Aroclor results where the pesticide/Aroclor is confirmed to be present but the concentration is less than the CRQL.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds. Where the identification is based on a mass spectral library search. It is applied to all TIC results.

DATA REPORTING QUALIFIERS
(page 2)

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".

C - This flag applies to pesticide results where identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but unsuccessful, do not apply this flag, instead use a laboratory-defined, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for the specific analysis. This flag will not apply to pesticide/PCBs analyzed by GC/MS methods. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed according to the specifications. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG Narrative. If more than one flag is required, use "Y" and "Z", as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A", "B" and "D" flags for some sample. The laboratory-defined are limited to letters "X", "Y" and "Z".

May 12,1992 Vol 1 of 3

Narrative Case: 19026 **SAS 6702 HQ**
VIAR Prime Contract No. 68-D9-0135
S3 Subcontract No. S3-0135

This case consists of the samples listed in the enclosed sample summary.

Both volatile and semivolatile analyses were straightforward with no compounds detected. No problems were encountered.

Pesticide analyses were straightforward. Field samples were clean. Surrogate and LCS results were compliant with the exception of the recovery of tetrachloro-m-xylene in sample EQK22. This sample exhibited a high level of non target analyte interferences,causing inconsistent,noncompliant recoveries of this surrogate. The first CCAL on the DB1701 column yielded a noncompliant RPD for DDT. Also please note that the PEMs did not contain the surrogates as required by this method. New standards have been prepared.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data reported are true and accurate. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

J Wilkinson

Date: 5/12/92
JoAnn Wilkinson, Project Manager

A

5-Lot # 2706

8-3

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable)

Case No.

1. Sample Description (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Rinsate
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H_2SO_4
5. Other (Specify)
6. Ice only
N. Not preserved

3. Region No.

Sampling Co.

5. Date Shipped

Carrier

7. Date Received -- Received by: 4/29/92

Sampler (Name): R. Bab

Airbill Number: 113180[illegible]

Laboratory Contract Number

Unit Price

Sampler Signature

6. Ship To: S-Cubed, 3398 Carmel Mtn. Rd, San Diego, CA 92121

ATTN: Joann Wilkinson

8. Transfer to

Date Received

Received by

Contract Number

Price

4. Type of Activity

Lead		Pre-Remedial		Remedial		Removal	
SF	X			RIFS		CLEM	
PRP		PA		RD		REMA	
ST		SSI	X	RA		REM	
FED		LSI		O&M		OIL	
				NPLD		UST	

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below) Solids	Water -- Mis Liq.	Non Water -- Mis Liq.
EQK20	4/28/92 CTB	L	G	1	X				5-046639 - 046647	RW-1	4/28/92 1255		92ZE90S				
EQK20	↓	↓	↓	N		X	X	4/28/92	5-046648, 5-046649	RW-1	4/28/92 1255		92ZE90S01				
EQK20	↓	↓	↓	N			X		5-046650, 5-046651	RW-1	4/28/92 1255		92ZE90S01				
EQK21	↓	↓	↓	1	X				5-046658 - 046660	RW-1D	4/28/92 1255		92ZE90D0				
EQK21	↓	↓	↓	N		X			5-046661, 5-046662	RW-1D	4/28/92 1255		92ZE90D0				
EQK21	↓	↓	↓	N			X		5-046663, 5-046664	RW-1D	4/28/92 1255		92ZE90D0				

Shipment for Case complete? (Y/N) Y

Page 1 of ____

Sample used for a spike and/or duplicate: EQK20

Additional Sampler Signatures

Chain of Custody Seal Number: 157423, 157424

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	4/28/92 1730	Christopher P. Coppel	Christopher P Coppel	4/28/92 1730	[signature] 4/29/92 10:00AM
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 Is custody seal intact? Y/N/none	

Split Samples ☐ Accepted (Signature) ☐ Declined

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Org-2

0 02240

Lot 2706

8-4

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.:

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

DH SSIZZ

3. Region No.: 5T

Sampling Co.:

Sampler (Name): R. Baker

Sampler Signature:

4. Type of Activity

	Lead	Pre-Remedial	Remedial	Removal
SF	X		RIFS	CLEM
PRP		PA	RD	REMA
ST		SSI	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

5. Date Shipped:

Carrier:

Airbill Number: 2712948673

6. Ship To: S-Cubed, 3398 Carmel Mtn. Rd., San Diego, CA 92121

ATTN: Joann Wilkinson

7. Date Received -- Received by: 4/29/92

Laboratory Contract Number:

Unit Price:

8. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below): Solids	Water -- Mis Liq.	Non Water -- Mis Liq.
EQK22	~~7~~ 8	L	G	1	X				5-046668-046670	RW-2	4/28/92 1200		922F90502				
EQK22	↓	↓	↓	N		X			5-046671,5-046672	RW-2	4/28/92 1200		922F90502				
EQK22	↓	↓	↓	N			X		5-046673,5-046674	RW-2	4/28/92 1200		922F90502				
EQK23	8	L	G	1	X				5-046678,046680	RW-3	4/28/92 1630		922F90503				
EQK23	↓	↓	↓	N		X			5-046681,5-046682	RW-3	4/28/92 1630		922F90503				
EQK23	↓	↓	↓	N			X		5-046683,5-046684	RW-3	4/28/92 1630		922F90503				

Shipment for Case complete? (Y/N): Y

Page 1 of ____

Sample used for a spike and/or duplicate: EQK20

Additional Sampler Signatures:

Chain of Custody Seal Number: 157421, 157422

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	4/28/92 1730	Christopher P. Cappel	Christopher P. Cappel	4/28/92 1730	[signature] 4/29/92 10:00am
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: Is custody seal intact? Y/N/none	

Split Samples: ☐ Accepted (Signature) ☐ Declined

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Og-2

0 02238

5 Lot # 2906

(8-5)

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable)

Case No.

1. Sample Description (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Rinsate
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H_2SO_4
5. Other (Specify)
6. Ice only
N. Not preserved

SS122

3. Region No

Sampling Co.

Sampler (Name): R. Ba

Sampler Signature: [signature]

4. Type of Activity

	Lead	Pre-Remedial	Remedial	Removal
SF	X		RIFS	CLEM
PRP		PA	RD	REMA
ST		SSI	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

5. Date Shipped

Carrier

Airbill Number: 2171 4 8025

6. Ship To: S-Cubed, 3398 Carmel Mtn. Rd., San Diego, CA 92121

ATTN: Joann Wilkinson

7. Date Received -- Received by: 4/29/92 [signature]

Laboratory Contract Number

Unit Price

8. Transfer to

Date Received

Received by

Contract Number

Price

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type Comp./Grab	D Preservative from Box 6	E RAS Analysis VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below) Solids	Water -- Mis Liq.	Non Water -- Mis Liq.
EQK24	B	L	G	1	X				5-046688-046690	RW-4	4/28/92 1145		92ZF90S0				
EQK24	↓	↓	↓	N		X			5-046691, 5-046692	RW-4	4/28/92 1145		92ZF90S0				
EQK24	↓	↓	↓	N			X		5-046693, 5-046694	RW-4	4/28/92 1145		92ZF90S0				
EQK25	↓	↓	↓	1	X				5-046698, 046700	B-1	4/28/92 1345		92ZF90R0	B			
EQK25	↓	↓	↓	N		X			5-046701, 5-046702	B-1	4/28/92 1345		92ZF90R0	B			
EQK25	↓	↓	↓	N			X		5-046703, 5-046704	B-1	4/28/92 1345		92ZF90R0	B			

Shipment for Case complete? (Y/N) N

Page 1 of ____

Sample used for a spike and/or duplicate: EQK02

Additional Sampler Signatures

Chain of Custody Seal Number: 157425, 157426

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	4/28/92 1730	Christopher P. Cappel	Christopher P. Cappel	4/28/92 1730	[signature] 4/29/92 10:00 AM
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 Is custody seal intact? Y/N/none	

Split Samples ☐ Accepted (Signature)
☐ Declined

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Org-2

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SAMPLE SUMMARY

S-Cubed Reference No.32380-02, SDG No.2900, Project Name:SAS 6702 HQ / Case 19026

Sample ID	S-Cubed Number	Date Received	Sample Type	Analysis										
				A	B	C	D	E	F	G	H	I	J	K
PW015	2900-01	04/22/92	WATE	1										
PU833	2900-02	04/22/92	WATE		1									
PR886	2900-03	04/22/92	WATE			1								
EQK20	2906-01	04/29/92	WATE	1	1	1								
EQK21	2906-02	04/29/92	WATE	1	1	1								
EQK22	2906-03	04/29/92	WATE	1	1	1								
EQK23	2906-04	04/29/92	WATE	1	1	1								
EQK24	2906-05	04/29/92	WATE	1	1	1								
EQK25	2906-06	04/29/92	WATE	1	1	1								

ANALYSIS KEY:

A=VOAOLC
B=SVOAOLC
C=OCPOLC

B

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900

	EPA SAMPLE NO.	SMC1 BFB #	OTHER	TOT OUT
001	PW015	105		0
002	EQK20	106		0
003	EQK21	89		0
004	EQK22	100		0
005	EQK23	107		0
006	EQK24	106		0
007	EQK25	104		0
008	LCSW2900	95		0
009	VBLK01	102		0
010	VBLK02	102		0
011	VSBLK01	103		0
012				
013				
014				
015				
016				
017				
018				
019				
020				
021				
022				
023				
024				
025				
026				
027				
028				
029				
030				

SMC1 BFB = Bromofluorobenzene QC LIMITS (80-120)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

L A B C O N T R O L S A M P L E P E R C E N T - R E C O V E R Y

(LAB FILE ID: LBM01)

CLIENT : REG.5 LAB NAME: S-CUBED.
PROJECT : 6702HQ/19026 LAB CODE: S3
SDG No : 2900

COMPOUND	SPIKE (UG/L)	LCS CONC. (UG/L)	LCS % REC	% REC LIMIT
VINYL CHLORIDE	5.00	5.56	111	60-140
1,2-DICHLOROETHANE	5.00	4.53	91	60-140
CARBON TETRACHLORIDE	5.00	4.61	92	60-140
1,2-DICHLOROPROPANE	5.00	4.71	94	60-140
CIS-1,3-DICHLOROPROPENE	3.15	2.72	86	60-140
TRICHLOROETHENE	5.00	4.89	98	60-140
1,1,2-TRICHLOROETHANE	5.00	4.28	86	60-140
BENZENE	5.00	4.66	93	60-140
TETRACHLOROETHENE	5.00	4.74	95	60-140
1,2-DIBROMOETHANE	5.00	4.27	85	60-140
BROMOFORM	5.00	3.96	79	60-140
1,4-DICHLOROBENZENE	5.00	4.41	88	60-140

COMMENTS: _____

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
Lab File ID: VBA30 Lab Sample ID: VBLK01
Date Analyzed: 4-30-92 Time Analyzed: 1248
GC Column: CAP ID: 0.53(mm) Heated Purge: (Y/N) N
Instrument ID: HP4

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
001	VSBLK01	VSBLK01	HBB89	1326
002	EQK20	2906-01	EQK20	1600
003	EQK21	2906-02	EQK21	1639
004	EQK22	2906-03	EQK22	1717
005	EQK23	2906-04	EQK23	1756
006	EQK24	2906-05	EQK24	1834
007	EQK25	2906-06	EQK25	1913
008	PW015	2900-01	LAA30	1951
009				
010				
011				
012				
013				
014				
015				
016				
017				
018				
019				
020				
021				
022				
023				
024				
025				
026				
027				
028				
029				
030				

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
Lab File ID: VAM01 Lab Sample ID: VBLK02
Date Analyzed: 5-1-92 Time Analyzed: 1911
GC Column: CAP ID: 0.53(mm) Heated Purge: (Y/N) N
Instrument ID: HP4

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
001	LCSW2900	LCSW2900	LBM01	2028
002				
003				
004				
005				
006				
007				
008				
009				
010				
011				
012				
013				
014				
015				
016				
017				
018				
019				
020				
021				
022				
023				
024				
025				
026				
027				
028				
029				
030				

COMMENTS:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSBLK01

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: VSBLK01
Sample wt/vol: 25.00 g/ml) ML Lab File ID: HBB89
Level: (low/med) LOW Date Received:
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	9	
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSBLK01

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: VSBLK01
Sample wt/vol: 25.00 g/ml) ML Lab File ID: HBB89
Level: (low/med) LOW Date Received:
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

Environmental Protection Agency. CLP Sample Management Office.
P O Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
VSBLK01

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	VOA		
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30				

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: VBLK01
Sample wt/vol: 25.00 g/ml) ML Lab File ID: VBA30
Level: (low/med) LOW Date Received:
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: VBLK01
Sample wt/vol: 25.00 g/ml) ML Lab File ID: VBA30
Level: (low/med) LOW Date Received:
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

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Sample Number
VBLK01

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	VOA		
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: VBLK02
Sample wt/vol: 25.00 g/ml) ML Lab File ID: VAM01
Level: (low/med) LOW Date Received:
%Moisture: not dec. 100.00 Date Analyzed: 5/1/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: VBLK02
Sample wt/vol: 25.00 g/ml) ML Lab File ID: VAM01
Level: (low/med) LOW Date Received:
%Moisture: not dec. 100.00 Date Analyzed: 5/1/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

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Sample Number
VBLK02

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	VOA		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK20

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-01
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK20
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK20

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-01
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK20
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

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Sample Number
EQK20

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN SILOXANE	VOA	20-27	3 J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK21

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-02
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK21
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK21

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-02
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK21
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

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Sample Number
EQK21

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	VOA		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK22

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-03
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK22
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	0.5	J
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK22

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-03
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK22
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

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Sample Number
EQK22

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	VOA		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK23

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-04
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK23
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	8	
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK23

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-04
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK23
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

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Sample Number
EQK23

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	VOA		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK24

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-05
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK24
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	0.6	J
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK24

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-05
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK24
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

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Sample Number
EQK24

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	VOA		
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK25

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-06
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK25
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK25

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-06
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK25
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

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Sample Number
ERK25

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	VOA		
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2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900

	EPA SAMPLE NO.	S1 NBZ #	S2 FBP #	S3 TPH #	S4 PHL #	S5 2FP #	S6 TBP #	TOT OUT
001	PU833	86	79	97	103	105	99	0
002	EQK20	76	70	85	80	86	83	0
003	EQK21	78	71	91	91	94	88	0
004	EQK22	72	68	86	84	87	84	0
005	EQK23	76	70	84	86	89	84	0
006	EQK24	76	70	89	84	86	88	0
007	EQK25	70	67	84	74	80	78	0
008	EBW0504	83	68	89	95	99	92	0
009	LCSW0504	83	73	94	95	93	88	0
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	QC LIMITS
S1 NBZ = Nitrobenzene-d5	(40-112)
S2 FBP = 2-Fluorobiphenyl	(42-110)
S3 TPH = Terphenyl-d14	(24-140)
S4 PHL = Phenol-d5	(17-113)
S5 2FP = 2-Fluorophenol	(16-110)
S6 TBP = 2,4,6-Tribromophenol	(18-126)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

LCS

LOW CONC. WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

LCSW0504

Lab Name: S-Cubed Contract: 68-D9-0135

Lab Code: 53 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900

Lab Sample ID: LCSW0504 LCS Lot No.: — 3651

Lab File ID: LCSY5 Date Extracted: 05/04/92

LCS Aliquot: 500 (uL) Date Analyzed: 05/06/92

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1

Injection Volume: 1 (uL) pH: NA

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
Phenol	40×10^3	32×10^3	80	44-120
bis(2-Chloroethyl)ether	20	18×10^3	90	64-110
2-Chlorophenol	40	32×10^3	80	58-110
N-Nitroso-di-n-propylamine	20	16×10^3	81	34-102
Hexachloroethane	20	9×10^3	47	32-72
Isophorone	20	15×10^3	75	49-110
1,2,4-Trichlorobenzene	20	13×10^3	66	44-96
Naphthalene	20	15×10^3	75	56-160
4-Chloroaniline	40	28×10^3	71	35-98
2,4,6-Trichlorophenol	40	29×10^3	73	65-110
2,4-Dinitrotoluene	20	12×10^3	62	61-140
Diethylphthalate	20	17×10^3	84	76-104
N-Nitrosodiphenylamine	20	16×10^3	82	39-120
Hexachlorobenzene	20	17×10^3	83	30-95
Benzo(a)pyrene	20	17×10^3	84	55-92

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 15 total.

COMMENTS: % REC CALC ON UNROUNDED VALUES.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

EBW0504

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
Lab File ID: EBY05 Lab Sample ID: EBW0504
Instrument ID: HP1 Date Extracted: 5-4-92
Matrix: (soil/water) WATER Date Analyzed: 5-5-92
Level: (low/med) LOW Time Analyzed: 1534

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
001	PU833	2900-02	PU833	5-5-92
002	EQK20	2906-01	EQK20	5-5-92
003	EQK21	2906-02	EQK21	5-5-92
004	EQK22	2906-03	EQK22	5-5-92
005	EQK23	2906-04	EQK23	5-5-92
006	EQK24	2906-05	EQK24	5-6-92
007	EQK25	2906-06	EQK25	5-6-92
008	LCSW0504	LCSW0504	LCSY5	5-6-92
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COMMENTS:

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBW0504

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: EBW0504
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EBY05
Level: (low/med) LOW Date Received:
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenyl ether	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBW0504

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: EBW0504
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EBY05
Level: (low/med) LOW Date Received:
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

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Sample Number
EBW0504

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	BNA		
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK20

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-01
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK20
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenyl ether	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK20

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-01
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK20
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

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Sample Number
EQK20

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	BNA		
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK21

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-02
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK21
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenyl ether	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK21

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-02
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK21
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

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P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
EQK21

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	BNA		
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK22

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-03
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK22
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenyl ether	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK22

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-03
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK22
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

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Sample Number
EQK 22

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	BNA		
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK23

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-04
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK23
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenyl ether	5	U

1C

EPA SAMPLE NO.

EQK23

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-04
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK23
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

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Sample Number
EQK 23

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	BNA		
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK24

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-05
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK24
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/6/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenyl ether	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK24

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-05
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK24
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/6/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

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Sample Number
EQK24

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	BNA		
2.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK25

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-06
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK25
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/6/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenyl ether	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK25

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-06
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK25
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/6/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
EQK25

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	BNA		
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30				

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
GC Column (1): DB608 ID: 0.53(mm) GC Column (2): DB1701 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
001	PR886	71.1	73.1	92.8	87.4			0
002	EQK20	60.4	75.5	94.2	96.7			0
003	EQK21	68.6	69.4	107	90.4			0
004	EQK22	56.2 *	172 *	94.7	81.5			2
005	EQK23	63.0	85.8	105	96.2			0
006	EQK24	62.5	70.3	100	93.7			0
007	EQK25	67.7	68.5	104	86.9			0
008	EBW0430	74.8	77.4	94.2	84.7			0
009	LCSW0430B	71.8	72.4	79.7	73.1			0
010								
011								
012								
013								
014								
015								
016								
017								
018								
019								
020								
021								
022								
023								
024								
025								
026								
027								
028								
029								
030								

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

EBW0430

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
Lab Sample ID: EBW0430 Lab File ID: E0501-2DB608027
Matrix: (soil/water) WATER Extraction:(SepF/Cont/Sonc) CONT
Sulfur Cleanup: (Y/N) N Date Extracted: 4-30-92
Date Analyzed (1): 5-2-92 Date Analyzed (2): 5-2-92
Time Analyzed (1): 0830 Time Analyzed (2): 0911
Instrument ID (1): 2 Instrument ID (2): 2
GC Column (1): DB608 ID: 0.53(mm) GC Column (2): DB1701 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
001	PR886	2900-03	5-2-92	5-2-92
002	EQK20	2906-01	5-2-92	5-2-92
003	EQK21	2906-02	5-2-92	5-2-92
004	EQK22	2906-03	5-2-92	5-2-92
005	EQK23	2906-04	5-2-92	5-2-92
006	EQK24	2906-05	5-2-92	5-2-92
007	EQK25	2906-06	5-2-92	5-2-92
008	LCSW0430B	LCSW0430B	5-2-92	5-2-92
009				
010				
011				
012				
013				
014				
015				
016				
017				
018				
019				
020				
021				
022				
023				
024				
025				
026				

COMMENTS:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBW0430

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: EBW0430
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E0501-2DB608027
%Moisture: 0.00 decanted: (Y/N) N Date Received:
Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 4/30/92
Concentrated Extract Volume: 2000 (uL) Date Analyzed: 5/2/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
111-11-3	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.200	U
11104-28-2	Aroclor-1221	0.200	U
11141-16-5	Aroclor-1232	0.400	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EQK20

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-01
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E0501-2DB608031
%Moisture: 100.00 decanted: (Y/N) N Date Received: 4/29/92
Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 4/30/92
Concentrated Extract Volume: 2000 (uL) Date Analyzed: 5/2/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 7.18 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
111-11-3	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.200	U
11104-28-2	Aroclor-1221	0.200	U
11141-16-5	Aroclor-1232	0.400	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK21

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-02
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E0501-2DB608032
%Moisture: 100.00 decanted: (Y/N) N Date Received: 4/29/92
Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 4/30/92
Concentrated Extract Volume: 2000 (uL) Date Analyzed: 5/2/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 7.26 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
111-11-3	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.200	U
11104-28-2	Aroclor-1221	0.200	U
11141-16-5	Aroclor-1232	0.400	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EQK22

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-03
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E0501-2DB608033
%Moisture: 100.00 decanted: (Y/N) N Date Received: 4/29/92
Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 4/30/92
Concentrated Extract Volume: 2000 (uL) Date Analyzed: 5/2/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 7.20 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
111-11-3	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.200	U
11104-28-2	Aroclor-1221	0.200	U
11141-16-5	Aroclor-1232	0.400	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK23

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-04
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E0501-2DB608034
%Moisture: 100.00 decanted: (Y/N) N Date Received: 4/29/92
Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 4/30/92
Concentrated Extract Volume: 2000 (uL) Date Analyzed: 5/2/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 7.22 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
111-11-3	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.200	U
11104-28-2	Aroclor-1221	0.200	U
11141-16-5	Aroclor-1232	0.400	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK24

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-05
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E0501-2DB608035
%Moisture: 100.00 decanted: (Y/N) N Date Received: 4/29/92
Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 4/30/92
Concentrated Extract Volume: 2000 (uL) Date Analyzed: 5/2/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 7.61 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
111-11-3	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.200	U
11104-28-2	Aroclor-1221	0.200	U
11141-16-5	Aroclor-1232	0.400	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK25

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-06
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E0501-2DB608036
%Moisture: 100.00 decanted: (Y/N) N Date Received: 4/29/92
Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 4/30/92
Concentrated Extract Volume: 2000 (uL) Date Analyzed: 5/2/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 9.25 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
111-11-3	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.200	U
11104-28-2	Aroclor-1221	0.200	U
11141-16-5	Aroclor-1232	0.400	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EQK26 FILED

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:60304102

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL2532

Level: (low/med) LOW Date Received: 4/30/92

% Moisture: not dec. Date Analyzed: 5/02/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

000107

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK26

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:60304102

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL2532

Level: (low/med) LOW Date Received: 4/30/92

% Moisture: not dec. Date Analyzed: 5/02/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK27

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:60305102

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL2535

Level: (low/med) LOW Date Received: 4/30/92

% Moisture: not dec. Date Analyzed: 5/02/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	7.	J
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

000114

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK27

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:60305102

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL2535

Level: (low/med) LOW Date Received: 4/30/92

% Moisture: not dec. Date Analyzed: 5/02/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

EQK28

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:60306102

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL2536

Level: (low/med) LOW Date Received: 4/30/92

% Moisture: not dec. Date Analyzed: 5/02/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	9.	J
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

000121

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK28

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:60306102

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL2536

Level: (low/med) LOW Date Received: 4/30/92

% Moisture: not dec. Date Analyzed: 5/02/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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000122

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK29

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:60307101

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL2537

Level: (low/med) LOW Date Received: 4/30/92

% Moisture: not dec. Date Analyzed: 5/02/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	12.	
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	31.	
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

000128

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EQK29

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:60307101

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL2537

Level: (low/med) LOW Date Received: 4/30/92

% Moisture: not dec. Date Analyzed: 5/02/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

TT 5/29/92

	EPA SAMPLE NO.	S1 ~~SMC1~~ (NBZ)#	S2 ~~SMC2~~ (FBP)#	S3 ~~SMC3~~ (TPH)#	S4 ~~SMC4~~ (PHL)#	S5 ~~SMC5~~ (2FP)#	S6 ~~SMC6~~ (TBP)#	S7 ~~SMC7~~ (2CP)#	S8 ~~SMC8~~ (DCB)#	TOT OUT
01	EQK26	88.0	84.0	138.0	79.0	76.0	116.0	92.0	72.0	0
02	EQK26MS	82.0	82.0	95.0	75.0	71.0	116.0	85.0	75.0	0
03	EQK26MSD	86.0	88.0	122.0	81.0	77.0	127.0*	91.0	79.0	1
04	EQK27	82.0	85.0	107.0	73.0	68.0	122.0	88.0	76.0	0
05	EQK28	79.0	76.0	110.0	72.0	68.0	113.0	84.0	70.0	0
06	SBLK1	80.0	74.0	100.0	76.0	72.0	106.0	86.0	63.0	0
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1,2=Dichlorobenzene-d4	(16-110)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring Compound diluted out

000229

FORM II SV-1 2/90

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

FILED

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 ~~SMC1~~ (NBZ)#	S2 ~~SMC2~~ (FBP)#	S3 ~~SMC3~~ (TPH)#	S4 ~~SMC4~~ (PHL)#	S5 ~~SMC5~~ (2FP)#	S6 ~~SMC6~~ (TBP)#	S7 ~~SMC7~~ (2CP)#	S8 ~~SMC8~~ (DCB)#	TOT OUT
01	EQK01	77.0	77.0	97.0	55.0	39.0	2.0*	59.0	43.0	1
02	EQK02	76.0	78.0	81.0	66.0	64.0	116.0	75.0	69.0	0
03	EQK02MS	61.0	64.0	73.0	56.0	50.0	103.0	61.0	56.0	0
04	EQK02MSD	63.0	68.0	77.0	54.0	48.0	107.0	60.0	52.0	0
05	EQK08	62.0	68.0	66.0	46.0	14.0*	0.0*	28.0	60.0	2
06	EQK08RE	69.0	79.0	61.0	60.0	36.0	2.0*	58.0	65.0	1
07	~~EQK08RERE~~	~~72.0~~	~~74.0~~	~~81.0~~	~~67.0~~	~~37.0~~	~~2.0*~~	~~59.0~~	~~66.0~~	~~1~~
08	EQK09	54.0	60.0	63.0	45.0	20.0*	0.0*	36.0	52.0	2
09	SBLK2	84.0	85.0	115.0	79.0	74.0	115.0	91.0	82.0	0
10	SBLK3	66.0	70.0	83.0	66.0	61.0	95.0	75.0	71.0	0
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RG 6/3/9

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2=Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring Compound diluted out

000230

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix Spike - EPA Sample No.: EQK26

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	75.00	0.000	51.000	68	12- 89
2-Chlorophenol	75.00	0.000	53.000	71	27-123
1,4-Dichlorobenzene	50.00	0.000	34.000	68	36- 97
N-Nitroso-di-n-prop.(1)	50.00	0.000	38.000	76	41-116
1,2,4-Trichlorobenzene	50.00	0.000	37.000	74	39- 98
4-Chloro-3-methylphenol	75.00	0.000	58.000	77	23- 97
Acenaphthene	50.00	0.000	42.000	84	46-118
4-Nitrophenol	75.00	0.000	77.000	103*	10- 80
2,4-Dinitrotoluene	50.00	0.000	48.000	96	24- 96
Pentachlorophenol	50.00	0.000	82.000	164*	9-103
Pyrene	75.00	0.000	54.000	72	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	75.00	56.000	75	10	42	12- 89
2-Chlorophenol	75.00	55.000	73	3	40	27-123
1,4-Dichlorobenzene	50.00	37.000	74	8	28	36- 97
N-Nitroso-di-n-prop.(1)	50.00	40.000	80	5	38	41-116
1,2,4-Trichlorobenzene	50.00	39.000	78	5	28	39- 98
4-Chloro-3-methylphenol	75.00	61.000	81	5	42	23- 97
Acenaphthene	50.00	43.000	86	2	31	46-118
4-Nitrophenol	75.00	80.000	107*	4	50	10- 80
2,4-Dinitrotoluene	50.00	53.000	106*	10	38	24- 96
Pentachlorophenol	50.00	83.000	166*	1	50	9-103
Pyrene	75.00	57.000	76	5	31	26-127

(1) N-Nitroso-di-n-propylamine

= Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 5 out of 22 outside limits

COMMENTS:

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix Spike - EPA Sample No.: EQK02 Level:(low/med) Low

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3100.00	0.000	1600.000	52	26- 90
2-Chlorophenol	3100.00	0.000	1600.000	52	25-102
1,4-Dichlorobenzene	2100.00	0.000	970.000	46	28-104
N-Nitroso-di-n-prop.(1)	2100.00	0.000	1200.000	57	41-126
1,2,4-Trichlorobenzene	2100.00	0.000	1200.000	57	38-107
4-Chloro-3-methylphenol	3100.00	0.000	2100.000	68	26-103
Acenaphthene	2100.00	0.000	1300.000	62	31-137
4-Nitrophenol	3100.00	0.000	3300.000	106	11-114
2,4-Dinitrotoluene	2100.00	0.000	1700.000	81	28- 89
Pentachlorophenol	3100.00	0.000	3000.000	97	17-109
Pyrene	2100.00	24.000	1300.000	61	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC =	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3100.00	1500.000	48	8	35	26- 90
2-Chlorophenol	3100.00	1500.000	48	8	50	25-102
1,4-Dichlorobenzene	2100.00	970.000	46	0	27	28-104
N-Nitroso-di-n-prop.(1)	2100.00	1200.000	57	0	38	41-126
1,2,4-Trichlorobenzene	2100.00	1200.000	57	0	23	38-107
4-Chloro-3-methylphenol	3100.00	2100.000	68	0	33	26-103
Acenaphthene	2100.00	1400.000	67	8	19	31-137
4-Nitrophenol	3100.00	3300.000	106	0	50	11-114
2,4-Dinitrotoluene	2100.00	1800.000	86	6	47	28- 89
Pentachlorophenol	3100.00	3000.000	97	0	47	17-109
Pyrene	2100.00	1400.000	66	8	36	35-142

(1) N-Nitroso-di-n-propylamine

= Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS:

000232

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK1

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Lab File ID:SBLK1 Lab Sample ID:90430

Instrument ID:EXTR03 Date Extracted: 4/30/92

Matrix: (soil/water) WATER Date Analyzed: 5/07/92

Level:(low/med) LOW Time Analyzed: 1200

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	~~TIME~~ DATE ANALYZED	RG 6/3/92
01	EQK26	60304	EQK26	~~1237~~	5/07/92
02	EQK26MS	60304	EQK26MS	~~1312~~	5/07/92
03	EQK26MSD	60304	EQK26MD	~~1346~~	5/07/92
04	EQK27	60305	EQK27	~~1422~~	5/07/92
05	EQK28	60306	EQK28	~~1457~~	5/07/92
06					
07					
08					
09					
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COMMENTS:

000233

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK2

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Lab File ID:SBLK2 Lab Sample ID:92504

Instrument ID:EXTR03 Date Extracted: 5/04/92

Matrix: (soil/water) SOIL Date Analyzed: 5/07/92

Level:(low/med) LOW Time Analyzed: 1533

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	~~TIME~~ DATE ANALYZED	RG 6/3/92
01	EQK01	60014	EQK01R	~~1620~~	5/08/92
02	EQK02	60020	EQK02	~~1731~~	5/08/92
03	EQK02MS	60020	EQK02MS	~~1806~~	5/08/92
04	EQK02MSD	60020	EQK02MD	~~1841~~	5/08/92
05	EQK08	60016	EQK08	~~1642~~	5/07/92
06	EQK09	60017	EQK09R	~~1656~~	5/08/92
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COMMENTS:

000234

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK3

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Lab File ID:SBLK3 Lab Sample ID:92508

Instrument ID:EXTR03 Date Extracted: 5/08/92

Matrix: (soil/water) SOIL Date Analyzed: 5/15/92

Level:(low/med) LOW Time Analyzed: 1517

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	~~TIME~~ DATE ANALYZED	RG 6/3/92
01	EQK08RE	60016	EQK08RE	~~1125~~	5/18/92
02	~~EQK08RERE~~	~~60016~~	~~EQK08RE~~	~~1315~~	5/18/92
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COMMENTS:

000235

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK1

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:90430

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: SBLK1

Level: (low/med) LOW Date Received: / /

% Moisture: 0 decanted: N Date Extracted: 4/30/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 5/07/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L_	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
10604-60-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
111-91-1	bis(2-chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	10.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK1

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:90430

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: SBLK1

Level: (low/med) LOW Date Received: / /

% Moisture: 0 decanted: N Date Extracted: 4/30/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 5/07/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L_	Q
51-28-5	2,4-Dinitrophenol	25.	U
100-02-7	4-Nitrophenol	25.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	25.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
86-74-8	Carbazole	10.	U
84-74-2	Di-n-butylphthalate	0.5	J
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-ethylhexyl)phthalate	1.	J
117-84-0	Di-n-Octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from Diphenylamine

000720

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK1

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) WATER Lab Sample ID:90430

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: SBLK1

Level: (low/med) LOW Date Received: / /

% Moisture: 0 decanted: (Y/N) N Date Extracted: 4/30/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 5/07/92

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs Found: ~~1~~ 2 *5/22/92

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L_

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.	111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	5.9	9.	JN
2.	98-86-2	Ethanone, 1-phenyl-	6.9	3.	JN
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000721

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK2

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:92504

Sample wt/vol: 30.00 (g/ml) G Lab File ID: SBLK2

Level: (low/med) LOW Date Received: / /

% Moisture: 0 decanted: N Date Extracted: 5/04/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/07/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330.	U
111-44-4	bis(2-chloroethyl)ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
10604-60-7	1,4-Dichlorobenzene	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330.	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
111-91-1	bis(2-chloroethoxy)methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	330.	U
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-methylphenol	330.	U
91-57-6	2-Methylnaphthalene	330.	U
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	800.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	800.	U
131-11-3	Dimethylphthalate	330.	U
208-96-8	Acenaphthylene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U
99-09-2	3-Nitroaniline	800.	U
83-32-9	Acenaphthene	330.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK2

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:92504

Sample wt/vol: 30.00 (g/ml) G Lab File ID: SBLK2

Level: (low/med) LOW Date Received: / /

% Moisture: 0 decanted: N Date Extracted: 5/04/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/07/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	800.	U
100-02-7	4-Nitrophenol	800.	U
132-64-9	Dibenzofuran	330.	U
121-14-2	2,4-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330.	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330.	U
100-01-6	4-Nitroaniline	800.	U
534-52-1	4,6-Dinitro-2-methylphenol	800.	U
86-30-6	N-Nitrosodiphenylamine (1)	330.	U
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	800.	U
85-01-8	Phenanthrene	330.	U
120-12-7	Anthracene	330.	U
86-74-8	Carbazole	330.	U
84-74-2	Di-n-butylphthalate	28.	J
206-44-0	Fluoranthene	330.	U
129-00-0	Pyrene	330.	U
85-68-7	Butylbenzylphthalate	330.	U
91-94-1	3,3'-Dichlorobenzidine	330.	U
56-55-3	Benzo(a)anthracene	330.	U
218-01-9	Chrysene	330.	U
117-81-7	bis(2-ethylhexyl)phthalate	18.	J
117-84-0	Di-n-Octylphthalate	330.	U
205-99-2	Benzo(b)fluoranthene	330.	U
207-08-9	Benzo(k)fluoranthene	330.	U
50-32-8	Benzo(a)pyrene	330.	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.	U
53-70-3	Dibenz(a,h)anthracene	330.	U
191-24-2	Benzo(g,h,i)perylene	330.	U

(1) - Cannot be separated from Diphenylamine

000736

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK2

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:92504

Sample wt/vol: 30.00 (g/ml) G Lab File ID: SBLK2

Level: (low/med) LOW Date Received: / /

% Moisture: 0 decanted: (Y/N) N Date Extracted: 5/04/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/07/92

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs Found: ~~0~~ 1 TT 5/22/92

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.	111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	5.9	460.	JN
2.					
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK3

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:92508

Sample wt/vol: 30.00 (g/ml) G Lab File ID: SBLK3

Level: (low/med) LOW Date Received: / /

% Moisture: 0 decanted: N Date Extracted: 5/08/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330.	U
111-44-4	bis(2-chloroethyl)ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
10604-60-7	1,4-Dichlorobenzene	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330.	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
111-91-1	bis(2-chloroethoxy)methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	330.	U
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-methylphenol	330.	U
91-57-6	2-Methylnaphthalene	330.	U
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	800.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	800.	U
131-11-3	Dimethylphthalate	330.	U
208-96-8	Acenaphthylene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U
99-09-2	3-Nitroaniline	800.	U
83-32-9	Acenaphthene	330.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK3

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:92508

Sample wt/vol: 30.00 (g/ml) G Lab File ID: SBLK3

Level: (low/med) LOW Date Received: / /

% Moisture: 0 decanted: N Date Extracted: 5/08/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	800.	U
100-02-7	4-Nitrophenol	800.	U
132-64-9	Dibenzofuran	330.	U
121-14-2	2,4-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330.	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330.	U
100-01-6	4-Nitroaniline	800.	U
534-52-1	4,6-Dinitro-2-methylphenol	800.	U
86-30-6	N-Nitrosodiphenylamine (1)	330.	U
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	800.	U
85-01-8	Phenanthrene	330.	U
120-12-7	Anthracene	330.	U
86-74-8	Carbazole	330.	U
84-74-2	Di-n-butylphthalate	240.	J
206-44-0	Fluoranthene	330.	U
129-00-0	Pyrene	330.	U
85-68-7	Butylbenzylphthalate	330.	U
91-94-1	3,3'-Dichlorobenzidine	330.	U
56-55-3	Benzo(a)anthracene	330.	U
218-01-9	Chrysene	330.	U
117-81-7	bis(2-ethylhexyl)phthalate	330.	U
117-84-0	Di-n-Octylphthalate	330.	U
205-99-2	Benzo(b)fluoranthene	330.	U
207-08-9	Benzo(k)fluoranthene	330.	U
50-32-8	Benzo(a)pyrene	330.	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.	U
53-70-3	Dibenz(a,h)anthracene	330.	U
191-24-2	Benzo(g,h,i)perylene	330.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK3

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:92508

Sample wt/vol: 30.00 (g/ml) G Lab File ID: SBLK3

Level: (low/med) LOW Date Received: / /

% Moisture: 0 decanted: (Y/N) N Date Extracted: 5/08/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/15/92

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs Found: ~~02~~ 15/12/92

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.	111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	6.8	120.	JN
2.		Unknown Ester	21.8	740.	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK01

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60014

Sample wt/vol: 30.00 (g/ml) G Lab File ID: EQK01R

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: 32 decanted: N Date Extracted: 5/04/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/08/92

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) Y pH: 9.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	970.	U
111-44-4	bis(2-chloroethyl)ether	970.	U
95-57-8	2-Chlorophenol	970.	U
541-73-1	1,3-Dichlorobenzene	970.	U
10604-60-7	1,4-Dichlorobenzene	970.	U
95-50-1	1,2-Dichlorobenzene	970.	U
95-48-7	2-Methylphenol	970.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	970.	U
106-44-5	4-Methylphenol	970.	U
621-64-7	N-Nitroso-di-n-propylamine	970.	U
67-72-1	Hexachloroethane	970.	U
98-95-3	Nitrobenzene	970.	U
78-59-1	Isophorone	970.	U
88-75-5	2-Nitrophenol	970.	U
105-67-9	2,4-Dimethylphenol	970.	U
111-91-1	bis(2-chloroethoxy)methane	970.	U
120-83-2	2,4-Dichlorophenol	970.	U
120-82-1	1,2,4-Trichlorobenzene	970.	U
91-20-3	Naphthalene	970.	U
106-47-8	4-Chloroaniline	970.	U
87-68-3	Hexachlorobutadiene	970.	U
59-50-7	4-Chloro-3-methylphenol	970.	U
91-57-6	2-Methylnaphthalene	970.	U
77-47-4	Hexachlorocyclopentadiene	970.	U
88-06-2	2,4,6-Trichlorophenol	970.	U
95-95-4	2,4,5-Trichlorophenol	2400.	U
91-58-7	2-Chloronaphthalene	970.	U
88-74-4	2-Nitroaniline	2400.	U
131-11-3	Dimethylphthalate	970.	U
208-96-8	Acenaphthylene	970.	U
606-20-2	2,6-Dinitrotoluene	970.	U
99-09-2	3-Nitroaniline	2400.	U
83-32-9	Acenaphthene	970.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK01

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60014

Sample wt/vol: 30.00 (g/ml) G Lab File ID: EQK01R

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: 32 decanted: N Date Extracted: 5/04/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/08/92

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) Y pH: 9.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2400.	U
100-02-7	4-Nitrophenol	2400.	U
132-64-9	Dibenzofuran	55.	J
121-14-2	2,4-Dinitrotoluene	970.	U
84-66-2	Diethylphthalate	970.	U
7005-72-3	4-Chlorophenyl-phenylether	970.	U
86-73-7	Fluorene	970.	U
100-01-6	4-Nitroaniline	2400.	U
534-52-1	4,6-Dinitro-2-methylphenol	2400.	U
86-30-6	N-Nitrosodiphenylamine (1)	970.	U
101-55-3	4-Bromophenyl-phenylether	970.	U
118-74-1	Hexachlorobenzene	970.	U
87-86-5	Pentachlorophenol	2400.	U
85-01-8	Phenanthrene	660.	J
120-12-7	Anthracene	970.	U
86-74-8	Carbazole	970.	U
84-74-2	Di-n-butylphthalate	970 ~~77.~~	JBU
206-44-0	Fluoranthene	970.	
129-00-0	Pyrene	450.	J
85-68-7	Butylbenzylphthalate	970.	U
91-94-1	3,3'-Dichlorobenzidine	970.	U
56-55-3	Benzo(a)anthracene	970.	U
218-01-9	Chrysene	3500.	
117-81-7	bis(2-ethylhexyl)phthalate	970.	U
117-84-0	Di-n-Octylphthalate	970.	U
205-99-2	Benzo(b)fluoranthene	2300.	
207-08-9	Benzo(k)fluoranthene	550.	J
50-32-8	Benzo(a)pyrene	1600.	
193-39-5	Indeno(1,2,3-cd)pyrene	560.	J
53-70-3	Dibenz(a,h)anthracene	150.	J
191-24-2	Benzo(g,h,i)perylene	330.	J

JB 6/11/92

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK01

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60014

Sample wt/vol: 30.00 (g/ml) G Lab File ID: EQK01R

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: 32 decanted: (Y/N) N Date Extracted: 5/04/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/08/92

Injection Volume: 2.00(uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) Y pH: 9.0

TS 12/12/92

Number TICs Found: 211

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.	111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	5.8	460.	~~JBN~~ u
2.		Unknown	20.5	320.	J
3.		Unknown Polyaromatic Hydroca	20.7	300.	J
4.		Unknown Polyaromatic Hydroca	20.8	260.	J
5.		Unknown	20.9	240.	J
6.		Unknown	22.2	760.	J
7.		Unknown	22.3	1400.	J
8.		Unknown	23.2	320.	J
9.		Unknown	23.8	220.	J
10.		Unknown	25.8	340.	J
11.		Unknown Polyaromatic Hydroca	26.3	380.	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK02

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60020

Sample wt/vol: 30.00 (g/ml) G Lab File ID: EQK02

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: 19 decanted: N Date Extracted: 5/04/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/08/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	410.	U
111-44-4	bis(2-chloroethyl)ether	410.	U
95-57-8	2-Chlorophenol	410.	U
541-73-1	1,3-Dichlorobenzene	410.	U
10604-60-7	1,4-Dichlorobenzene	410.	U
95-50-1	1,2-Dichlorobenzene	410.	U
95-48-7	2-Methylphenol	410.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410.	U
106-44-5	4-Methylphenol	410.	U
621-64-7	N-Nitroso-di-n-propylamine	410.	U
67-72-1	Hexachloroethane	410.	U
98-95-3	Nitrobenzene	410.	U
78-59-1	Isophorone	410.	U
88-75-5	2-Nitrophenol	410.	U
105-67-9	2,4-Dimethylphenol	410.	U
111-91-1	bis(2-chloroethoxy)methane	410.	U
120-83-2	2,4-Dichlorophenol	410.	U
120-82-1	1,2,4-Trichlorobenzene	410.	U
91-20-3	Naphthalene	51.	J
106-47-8	4-Chloroaniline	410.	U
87-68-3	Hexachlorobutadiene	410.	U
59-50-7	4-Chloro-3-methylphenol	410.	U
91-57-6	2-Methylnaphthalene	110.	J
77-47-4	Hexachlorocyclopentadiene	410.	U
88-06-2	2,4,6-Trichlorophenol	410.	U
95-95-4	2,4,5-Trichlorophenol	990.	U
91-58-7	2-Chloronaphthalene	410.	U
88-74-4	2-Nitroaniline	990.	U
131-11-3	Dimethylphthalate	410.	U
208-96-8	Acenaphthylene	410.	U
606-20-2	2,6-Dinitrotoluene	410.	U
99-09-2	3-Nitroaniline	990.	U
83-32-9	Acenaphthene	410.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK02

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60020

Sample wt/vol: 30.00 (g/ml) G Lab File ID: EQK02

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: 19 decanted: N Date Extracted: 5/04/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/08/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	990.	U
100-02-7	4-Nitrophenol	990.	U
132-64-9	Dibenzofuran	40.	J
121-14-2	2,4-Dinitrotoluene	410.	U
84-66-2	Diethylphthalate	410.	U
7005-72-3	4-Chlorophenyl-phenylether	410.	U
86-73-7	Fluorene	410.	U
100-01-6	4-Nitroaniline	990.	U
534-52-1	4,6-Dinitro-2-methylphenol	990.	U
86-30-6	N-Nitrosodiphenylamine (1)	410.	U
101-55-3	4-Bromophenyl-phenylether	410.	U
118-74-1	Hexachlorobenzene	410.	U
87-86-5	Pentachlorophenol	990.	U
85-01-8	Phenanthrene	140.	J
120-12-7	Anthracene	410.	U
86-74-8	Carbazole	410.	U
84-74-2	Di-n-butylphthalate	410 ~~41~~.	JBU
206-44-0	Fluoranthene	24.	J
129-00-0	Pyrene	24.	J
85-68-7	Butylbenzylphthalate	410.	U
91-94-1	3,3'-Dichlorobenzidine	410.	U
56-55-3	Benzo(a)anthracene	410.	U
218-01-9	Chrysene	23.	J
117-81-7	bis(2-ethylhexyl)phthalate	410 ~~200~~.	JBU
117-84-0	Di-n-Octylphthalate	410.	U
205-99-2	Benzo(b)fluoranthene	410.	U
207-08-9	Benzo(k)fluoranthene	410.	U
50-32-8	Benzo(a)pyrene	410.	U
193-39-5	Indeno(1,2,3-cd)pyrene	410.	U
53-70-3	Dibenz(a,h)anthracene	410.	U
191-24-2	Benzo(g,h,i)perylene	410.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK02

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60020

Sample wt/vol: 30.00 (g/ml) G Lab File ID: EQK02

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: 19 decanted: (Y/N) N Date Extracted: 5/04/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/08/92

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.7

Number TICs Found: ~~3~~ 20 TS/22/92

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1. 111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	5.9	820.	JBN
2.	Unknown Hydrocarbon	14.6	300.	J
3.	Unknown	17.0	130.	J
4.	Unknown	21.4	190.	J
5.	Unknown Hydrocarbon	21.4	158.	J
6.	Unknown Hydrocarbon	22.8	720.	J
7.	Unknown Hydrocarbon	23.7	420.	J
8.	Unknown Hydrocarbon	24.1	2200.	J
9.	Unknown	25.0	740.	J
10.	Unknown Hydrocarbon	25.3	1400.	J
11.	Unknown	25.4	1120.	J
12.	Unknown	25.4	170.	J
13.	Unknown	25.5	400.	J
14.	Unknown	25.8	150.	J
15.	Unknown	26.2	840.	J
16.	Unknown	26.4	380.	J
17.	Unknown Hydrocarbon	26.5	320.	J
18.	Unknown Hydrocarbon	26.6	300.	J
19.	Unknown	26.7	300.	J
20.	Unknown	26.8	1800.	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK08

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60016

Sample wt/vol: 30.00 (g/ml) G Lab File ID: EQK08

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: 53 decanted: N Date Extracted: 5/04/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/07/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:10.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	700.	U
111-44-4	bis(2-chloroethyl)ether	700.	U
95-57-8	2-Chlorophenol	700.	U
541-73-1	1,3-Dichlorobenzene	700.	U
10604-60-7	1,4-Dichlorobenzene	700.	U
95-50-1	1,2-Dichlorobenzene	700.	U
95-48-7	2-Methylphenol	700.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	700.	U
106-44-5	4-Methylphenol	700.	U
621-64-7	N-Nitroso-di-n-propylamine	700.	U
67-72-1	Hexachloroethane	700.	U
98-95-3	Nitrobenzene	700.	U
78-59-1	Isophorone	700.	U
88-75-5	2-Nitrophenol	700.	U
105-67-9	2,4-Dimethylphenol	700.	U
111-91-1	bis(2-chloroethoxy)methane	700.	U
120-83-2	2,4-Dichlorophenol	700.	U
120-82-1	1,2,4-Trichlorobenzene	700.	U
91-20-3	Naphthalene	700.	U
106-47-8	4-Chloroaniline	700.	U
87-68-3	Hexachlorobutadiene	700.	U
59-50-7	4-Chloro-3-methylphenol	700.	U
91-57-6	2-Methylnaphthalene	700.	U
77-47-4	Hexachlorocyclopentadiene	700.	U
88-06-2	2,4,6-Trichlorophenol	700.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	700.	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethylphthalate	700.	U
208-96-8	Acenaphthylene	700.	U
606-20-2	2,6-Dinitrotoluene	700.	U
99-09-2	3-Nitroaniline	1700.	U
83-32-9	Acenaphthene	700.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK08

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60016

Sample wt/vol: 30.00 (g/ml) G Lab File ID: EQK08

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: 53 decanted: N Date Extracted: 5/04/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/07/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:10.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700.	U
100-02-7	4-Nitrophenol	1700.	U
132-64-9	Dibenzofuran	700.	U
121-14-2	2,4-Dinitrotoluene	700.	U
84-66-2	Diethylphthalate	700.	U
7005-72-3	4-Chlorophenyl-phenylether	700.	U
86-73-7	Fluorene	700.	U
100-01-6	4-Nitroaniline	1700.	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	U
86-30-6	N-Nitrosodiphenylamine (1)	700.	U
101-55-3	4-Bromophenyl-phenylether	700.	U
118-74-1	Hexachlorobenzene	700.	U
87-86-5	Pentachlorophenol	1700.	U
85-01-8	Phenanthrene	280.	J
120-12-7	Anthracene	63.	J
86-74-8	Carbazole	38.	J
84-74-2	Di-n-butylphthalate	700 ~~310.~~	JB
206-44-0	Fluoranthene	600.	J
129-00-0	Pyrene	400.	J
85-68-7	Butylbenzylphthalate	700.	U
91-94-1	3,3'-Dichlorobenzidine	700.	U
56-55-3	Benzo(a)anthracene	300.	J
218-01-9	Chrysene	450.	J
117-81-7	bis(2-ethylhexyl)phthalate	700.	U
117-84-0	Di-n-Octylphthalate	700.	U
205-99-2	Benzo(b)fluoranthene	540.	J
207-08-9	Benzo(k)fluoranthene	190.	J
50-32-8	Benzo(a)pyrene	310.	J
193-39-5	Indeno(1,2,3-cd)pyrene	300.	J
53-70-3	Dibenz(a,h)anthracene	71.	J
191-24-2	Benzo(g,h,i)perylene	300.	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK08

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60016

Sample wt/vol: 30.00 (g/ml) G Lab File ID: EQK08

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: 53 decanted: (Y/N) N Date Extracted: 5/04/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/07/92

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:10.4

Number TICs Found: 20 rs 5/22/92

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.	111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	5.9	960.	~~JBN~~ U
2.		Unknown Hydrocarbon	12.5	360.	J
3.		Unknown Hydrocarbon	13.6	400.	J
4.		Unknown Hydrocarbon	14.6	960.	J
5.		Unknown Hydrocarbon	15.6	360.	J
6.		Unknown Hydrocarbon	19.4	460.	J
7.		Unknown Hydrocarbon	20.1	620.	J
8.		Unknown	20.9	580.	J
9.		Unknown	22.2	680.	J
10.		Unknown	22.4	520.	J
11.		Unknown Hydrocarbon	22.6	680.	J
12.		Unknown Hydrocarbon	22.9	580.	J
13.		Unknown Hydrocarbon	23.1	640.	J
14.		Unknown	23.3	620.	J
15.		Unknown	23.7	840.	J
16.		Unknown Hydrocarbon	24.6	800.	J
17.		Unknown Hydrocarbon	24.8	380.	J
18.		Unknown Hydrocarbon	25.2	520.	J
19.		Unknown	25.4	800.	J
20.		Unknown	25.9	560.	J
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK08RE

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60016

Sample wt/vol: 30.00 (g/ml) G Lab File ID: EQK08RE

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: 53 decanted: N Date Extracted: 5/08/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/18/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:10.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	700.	U
111-44-4	bis(2-chloroethyl)ether	700.	U
95-57-8	2-Chlorophenol	700.	U
541-73-1	1,3-Dichlorobenzene	700.	U
10604-60-7	1,4-Dichlorobenzene	700.	U
95-50-1	1,2-Dichlorobenzene	700.	U
95-48-7	2-Methylphenol	700.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	700.	U
106-44-5	4-Methylphenol	700.	U
621-64-7	N-Nitroso-di-n-propylamine	700.	U
67-72-1	Hexachloroethane	700.	U
98-95-3	Nitrobenzene	700.	U
78-59-1	Isophorone	700.	U
88-75-5	2-Nitrophenol	700.	U
105-67-9	2,4-Dimethylphenol	700.	U
111-91-1	bis(2-chloroethoxy)methane	700.	U
120-83-2	2,4-Dichlorophenol	700.	U
120-82-1	1,2,4-Trichlorobenzene	700.	U
91-20-3	Naphthalene	700.	U
106-47-8	4-Chloroaniline	700.	U
87-68-3	Hexachlorobutadiene	700.	U
59-50-7	4-Chloro-3-methylphenol	700.	U
91-57-6	2-Methylnaphthalene	700.	U
77-47-4	Hexachlorocyclopentadiene	700.	U
88-06-2	2,4,6-Trichlorophenol	700.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	700.	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethylphthalate	700.	U
208-96-8	Acenaphthylene	700.	U
606-20-2	2,6-Dinitrotoluene	700.	U
99-09-2	3-Nitroaniline	1700.	U
83-32-9	Acenaphthene	700.	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK08RE

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60016

Sample wt/vol: 30.00 (g/ml) G Lab File ID: EQK08RE

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: 53 decanted: N Date Extracted: 5/08/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/18/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:10.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700.	U
100-02-7	4-Nitrophenol	1700.	U
132-64-9	Dibenzofuran	700.	U
121-14-2	2,4-Dinitrotoluene	700.	U
84-66-2	Diethylphthalate	700.	U
7005-72-3	4-Chlorophenyl-phenylether	700.	U
86-73-7	Fluorene	36.	J
100-01-6	4-Nitroaniline	1700.	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	U
86-30-6	N-Nitrosodiphenylamine (1)	700.	U
101-55-3	4-Bromophenyl-phenylether	700.	U
118-74-1	Hexachlorobenzene	700.	U
87-86-5	Pentachlorophenol	1700.	U
85-01-8	Phenanthrene	300.	J
120-12-7	Anthracene	83.	J
86-74-8	Carbazole	37.	J
84-74-2	Di-n-butylphthalate	700 ~~200~~.	JB
206-44-0	Fluoranthene	570.	J
129-00-0	Pyrene	350.	J
85-68-7	Butylbenzylphthalate	700.	U
91-94-1	3,3'-Dichlorobenzidine	700.	U
56-55-3	Benzo(a)anthracene	700.	U
218-01-9	Chrysene	430.	J
117-81-7	bis(2-ethylhexyl)phthalate	700.	U
117-84-0	Di-n-Octylphthalate	700.	U
205-99-2	Benzo(b)fluoranthene	520.	J
207-08-9	Benzo(k)fluoranthene	53.	J
50-32-8	Benzo(a)pyrene	330.	J
193-39-5	Indeno(1,2,3-cd)pyrene	320.	J
53-70-3	Dibenz(a,h)anthracene	71.	J
191-24-2	Benzo(g,h,i)perylene	320.	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK08RE

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60016

Sample wt/vol: 30.00 (g/ml) G Lab File ID: EQK08RE

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: 53 decanted: (Y/N) N Date Extracted: 5/08/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/18/92

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH:10.4

Number TICs Found: ~~38~~ 20 JT 5/22/92

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.	Unknown Hydrocarbon	13.4	260.	J
2.	Unknown Hydrocarbon	14.5	380.	J
3.	Unknown Hydrocarbon	15.6	560.	J
4.	Unknown Hydrocarbon	17.5	188.	J
5.	Unknown Hydrocarbon	19.1	192.	J
6.	Unknown Hydrocarbon	19.2	300.	J
7.	Unknown Hydrocarbon	20.4	170.	J
8.	Unknown Hydrocarbon	21.1	280.	J
9.	Unknown Ester	21.7	6400.	J
10.	Unknown	23.2	260.	J
11.	Unknown	23.5	180.	J
12.	Unknown Hydrocarbon	23.6	380.	J
13.	Unknown Hydrocarbon	24.1	1000.	J
14.	Unknown Hydrocarbon	25.2	240.	J
15.	Unknown	25.4	440.	J
16.	Unknown	26.6	900.	J
17.	Unknown	26.6	900.	J
18.	Unknown	27.3	600.	J
19.	Unknown	28.1	420.	J
20.	Unknown	28.2	520.	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK09

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60017

Sample wt/vol: 30.00 (g/ml) G Lab File ID: EQK09R

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: 64 decanted: N Date Extracted: 5/04/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/08/92

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) Y pH:10.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1800.	U
111-44-4	bis(2-chloroethyl)ether	1800.	U
95-57-8	2-Chlorophenol	1800.	U
541-73-1	1,3-Dichlorobenzene	1800.	U
10604-60-7	1,4-Dichlorobenzene	1800.	U
95-50-1	1,2-Dichlorobenzene	1800.	U
95-48-7	2-Methylphenol	1800.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1800.	U
106-44-5	4-Methylphenol	1800.	U
621-64-7	N-Nitroso-di-n-propylamine	1800.	U
67-72-1	Hexachloroethane	1800.	U
98-95-3	Nitrobenzene	1800.	U
78-59-1	Isophorone	1800.	U
88-75-5	2-Nitrophenol	1800.	U
105-67-9	2,4-Dimethylphenol	1800.	U
111-91-1	bis(2-chloroethoxy)methane	1800.	U
120-83-2	2,4-Dichlorophenol	1800.	U
120-82-1	1,2,4-Trichlorobenzene	1800.	U
91-20-3	Naphthalene	1800.	U
106-47-8	4-Chloroaniline	1800.	U
87-68-3	Hexachlorobutadiene	1800.	U
59-50-7	4-Chloro-3-methylphenol	1800.	U
91-57-6	2-Methylnaphthalene	1800.	U
77-47-4	Hexachlorocyclopentadiene	1800.	U
88-06-2	2,4,6-Trichlorophenol	1800.	U
95-95-4	2,4,5-Trichlorophenol	4400.	U
91-58-7	2-Chloronaphthalene	1800.	U
88-74-4	2-Nitroaniline	4400.	U
131-11-3	Dimethylphthalate	1800.	U
208-96-8	Acenaphthylene	1800.	U
606-20-2	2,6-Dinitrotoluene	1800.	U
99-09-2	3-Nitroaniline	4400.	U
83-32-9	Acenaphthene	1800.	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK09

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60017

Sample wt/vol: 30.00 (g/ml) G Lab File ID: EQK09R

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: 64 decanted: N Date Extracted: 5/04/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/08/92

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) Y pH:10.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	4400.	U
100-02-7	4-Nitrophenol	4400.	U
132-64-9	Dibenzofuran	1800.	U
121-14-2	2,4-Dinitrotoluene	1800.	U
84-66-2	Diethylphthalate	1800.	U
7005-72-3	4-Chlorophenyl-phenylether	1800.	U
86-73-7	Fluorene	1800.	U
100-01-6	4-Nitroaniline	4400.	U
534-52-1	4,6-Dinitro-2-methylphenol	4400.	U
86-30-6	N-Nitrosodiphenylamine (1)	1800.	U
101-55-3	4-Bromophenyl-phenylether	1800.	U
118-74-1	Hexachlorobenzene	1800.	U
87-86-5	Pentachlorophenol	4400.	U
85-01-8	Phenanthrene	200.	J
120-12-7	Anthracene	1800.	U
86-74-8	Carbazole	1800.	U
84-74-2	Di-n-butylphthalate	150 ~~450~~.	JB U
206-44-0	Fluoranthene	400.	J
129-00-0	Pyrene	310.	J
85-68-7	Butylbenzylphthalate	1800.	U
91-94-1	3,3'-Dichlorobenzidine	1800.	U
56-55-3	Benzo(a)anthracene	210.	J
218-01-9	Chrysene	320.	J
117-81-7	bis(2-ethylhexyl)phthalate	2200.	B
117-84-0	Di-n-Octylphthalate	1800.	U
205-99-2	Benzo(b)fluoranthene	410.	J
207-08-9	Benzo(k)fluoranthene	170.	J
50-32-8	Benzo(a)pyrene	250.	J
193-39-5	Indeno(1,2,3-cd)pyrene	230.	J
53-70-3	Dibenz(a,h)anthracene	1800.	U
191-24-2	Benzo(g,h,i)perylene	240.	J

(1) - Cannot be separated from Diphenylamine

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQK09

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:19026 SAS No.: SDG No.:EQK01

Matrix: (soil/water) SOIL Lab Sample ID:60017

Sample wt/vol: 30.00 (g/ml) G Lab File ID: EQK09R

Level: (low/med) LOW Date Received: 4/29/92

% Moisture: 64 decanted: (Y/N) N Date Extracted: 5/04/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 5/08/92

Injection Volume: 2.00(uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) Y pH:10.3

Number TICs Found: ~~19~~ 20 π 5/22/92

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.		Unknown Hydrocarbon	13.5	580.	J
2.		Unknown Hydrocarbon	14.6	1400.	J
3.		Unknown Hydrocarbon	15.6	780.	J
4.		Unknown Hydrocarbon	15.6	680.	J
5.		Unknown Hydrocarbon	16.5	500.	J
6.		Unknown Hydrocarbon	18.0	680.	J
7.		Unknown Hydrocarbon	19.4	980.	J
8.		Unknown	20.0	1420.	J
9.		Unknown	22.1	1400.	J
10.		Unknown Hydrocarbon	22.5	880.	J
11.		Unknown Hydrocarbon	22.8	960.	J
12.		Unknown Hydrocarbon	23.0	1500.	J
13.		Unknown Hydrocarbon	23.7	1700.	J
14.		Unknown Hydrocarbon	24.1	800.	J
15.		Unknown Hydrocarbon	24.5	1600.	J
16.		Unknown Hydrocarbon	25.1	1400.	J
17.		Unknown ~~Hydrocarbon~~ π 6/1/92	25.3	1900.	J
18.		Unknown Polyaromatic Hydroca	25.8	1300.	J
19.		Unknown	26.4	620.	J
20.		Unknown	26.5	480.	J
21.					
22.					
23.					
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