

LOAN DOCUMENT

AD-A286 964 	DTIC ACCESSION NUMBER	LEVEL	PHOTOGRAPH THIS SHEET	① INVENTORY
		<i>Treatability Study in Support</i> DOCUMENT IDENTIFICATION <i>Jan 97</i> <i>Vol. 2</i>		
		DISTRIBUTION STATEMENT Approved for public release. Distribution Unlimited		
ADDITIONAL INFO NTIS ☐ GRAM ☐ DTIC ☐ TRAC ☐ UNANNOUNCED ☐ JUSTIFICATION ☐ BY _____ DISTRIBUTION/ _____ AVAILABILITY CODES _____ DISTRIBUTION _____ AVAILABILITY AND/OR SPECIAL _____ A-1		DISTRIBUTION STATEMENT 		
DISTRIBUTION STAMP 		DATE ACCESSIONED		
DATE RECEIVED IN DTIC		DATE RETURNED		
		98-00078  REGISTERED OR CERTIFIED NUMBER		
PHOTOGRAPH THIS SHEET AND RETURN TO DTIC-FDAC				

HANDLE WITH CARE

**Best
Available
Copy**

FINAL

Treatability Study in Support of Intrinsic Remediation for the Jet Fuel Transfer Line Southwest of Building 412 and the POL Yard Volume 2: Appendices



**Wisconsin Air National Guard at Truax Field
Madison, Wisconsin**

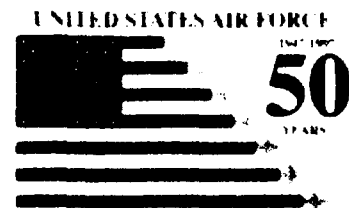
Prepared For

**Air Force Center for Environmental Excellence
Technology Transfer Division
Brooks Air Force Base
San Antonio, Texas**

and

**Wisconsin Air National Guard at Truax Field
Madison, Wisconsin**

January 1997



APPENDIX A

CONE PENETROMETER LOGS, BOREHOLE LOGS, MONITORING POINT
INSTALLATION RECORDS, BOREHOLE ABANDONMENT FORMS, AND SLUG
TESTING RESULTS

CPT based SOIL CLASSIFICATION

to Campbell
Fr Olsen
feb 8, 94

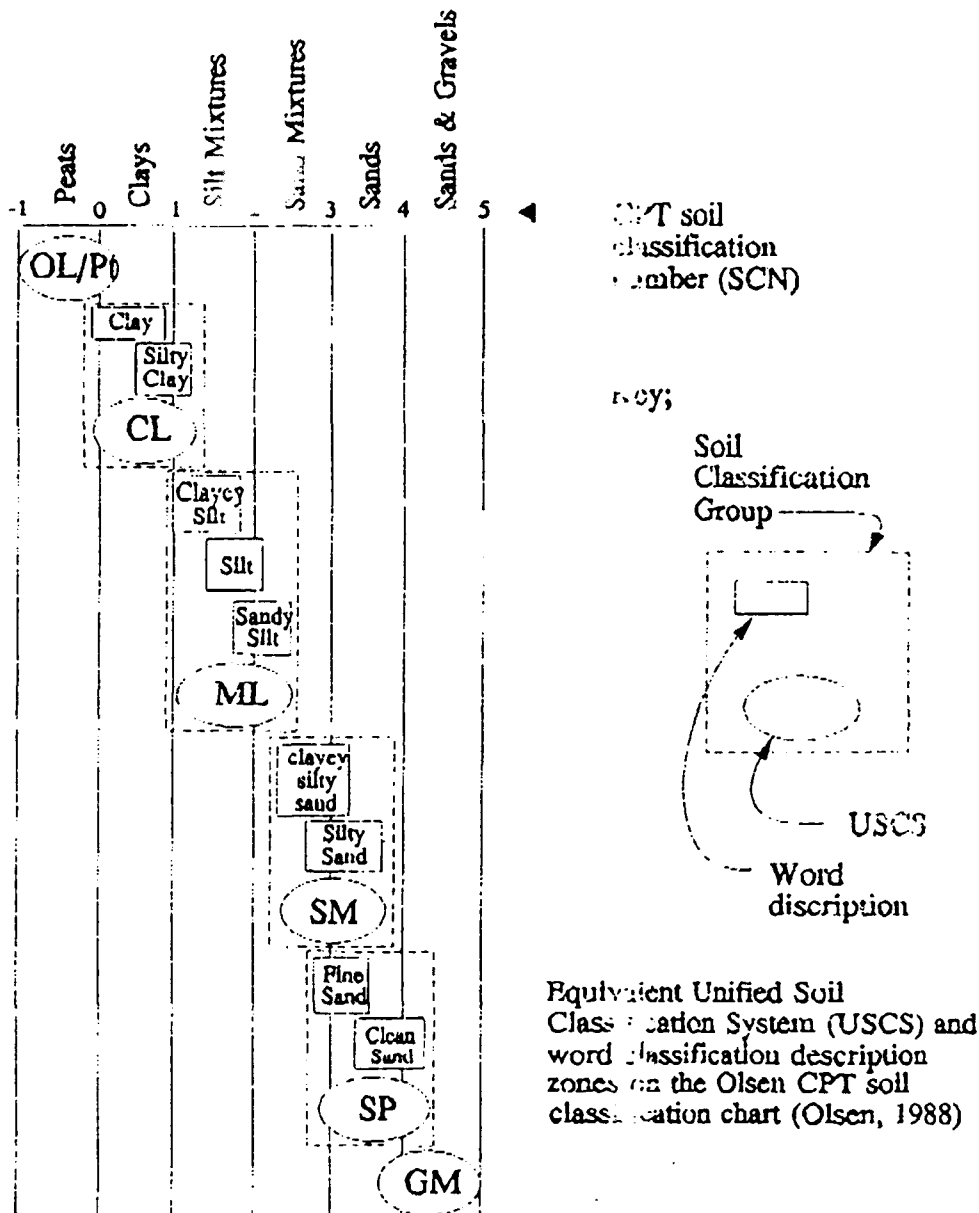
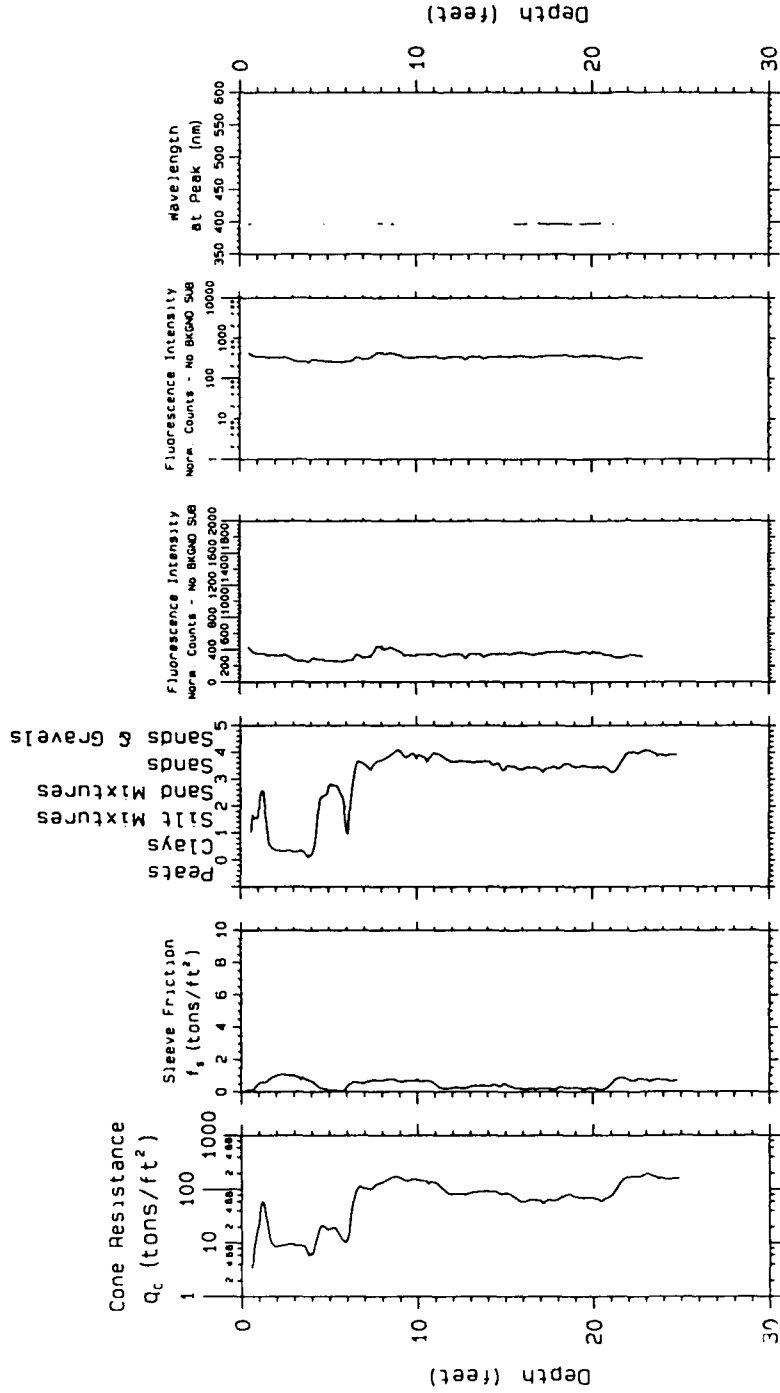


Figure 10 Comparison between the Unified Soil Classification System (USCS) from soil samples and the CPT Soil Characterization Number (SCN) (Olsen, 1988)

CPT based SOIL CLASSIFICATION



Laser induced
fluorescence
of PCL via
fiber optics

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date: 09-12-1994

Project; Wisconsin ANG <NEW>

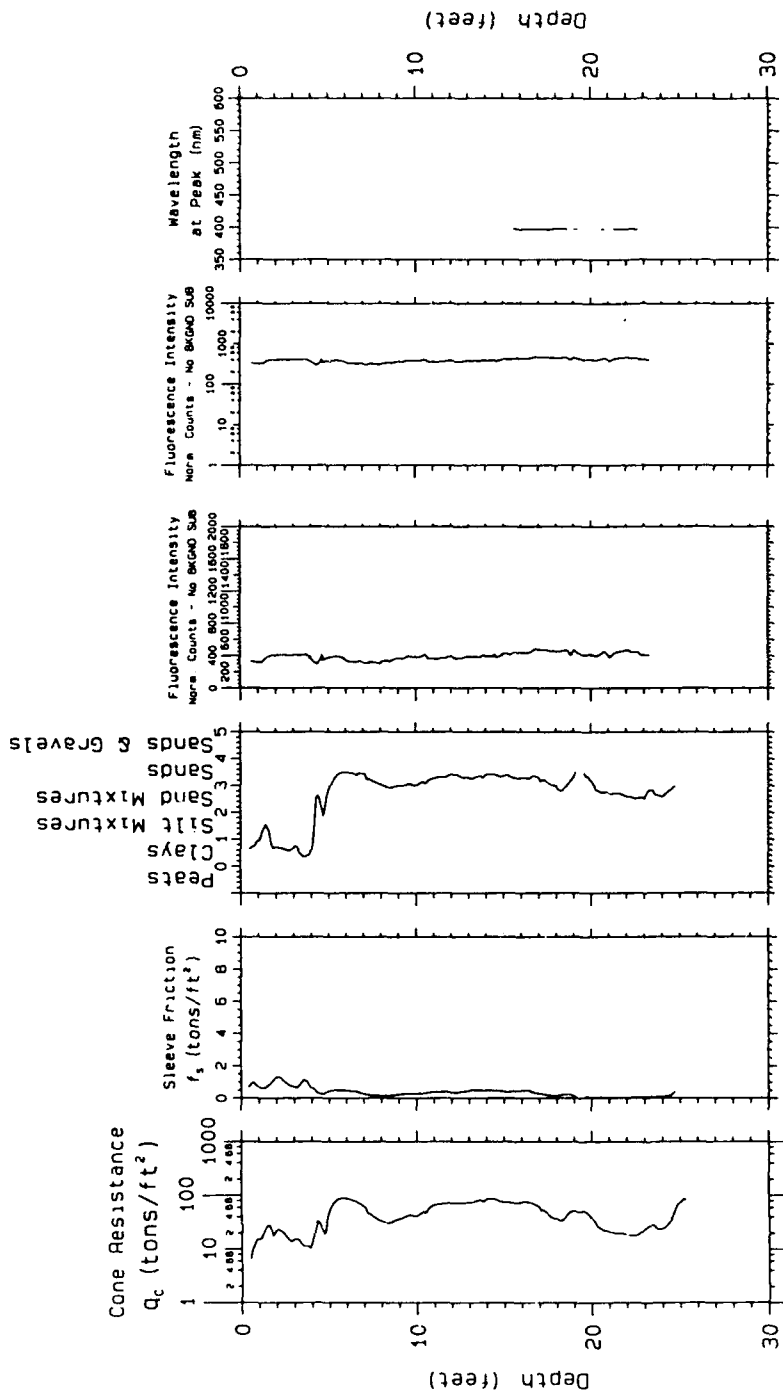
Probe Depth: 25.05

SCAPS

Site
Characterization
and Analysis
Penetrometer System

CPT; 2WIF01

CPT based SOIL CLASSIFICATION



Laser induced
fluorescence
of PDL via
fiber optics

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date: 09-12-1994

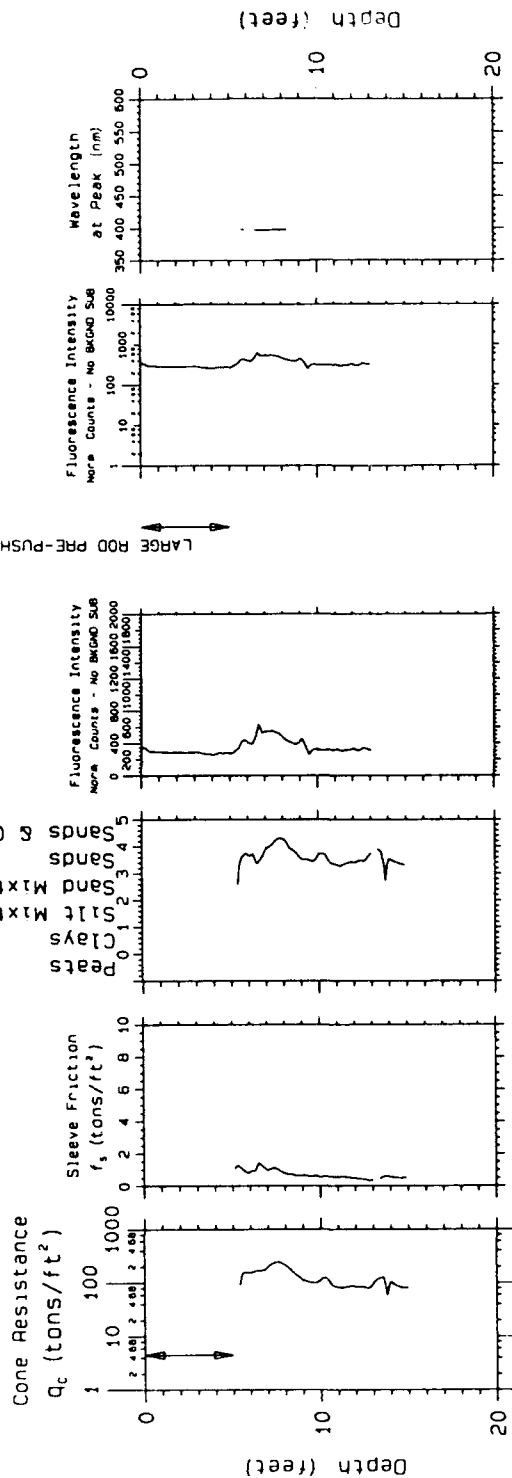
SCAPS

Site
Characterization
and Analysis
Penetrometer System

Project; Wisconsin ANG
Probe Depth: 25.46

CPT; 4WIF02

CPT based SOIL CLASSIFICATION



Laser induced
fluorescence
of PDL via
fiber optics

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date. 09-13-1994

Project: Wisconsin ANG

Probe Depth: 15.21

SCAPS

Site
Characterization
and Analysis
Penetrometer System

CPT; 6WIF03

CPT based SOIL CLASSIFICATION

Sands & Gravels
Sands
Sand Mixtures
Silt Mixtures
Clays
Peats

Cone Resistance
 q_c (tons/ft²)

1 100 1000
2 100 2000
3 100 4000

Sleeve Friction
 f_s (tons/ft²)

0 2 4 6 8 10

0 1 2 3 4 5

Fluorescence Intensity
Norm. Counts - No BKGD Sub
0 400 800 1200 1600 2000
2000 1600 1200 800 400

Fluorescence Intensity
Norm. Counts - No BKGD Sub
1 10 100 1000 10000

Wavelength
at Peak (nm)
350 400 450 500 550 600

Depth (feet)

Depth (feet)

Laser induced
fluorescence
of PDL via
fiber optics

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

probing date. 09-13-1994

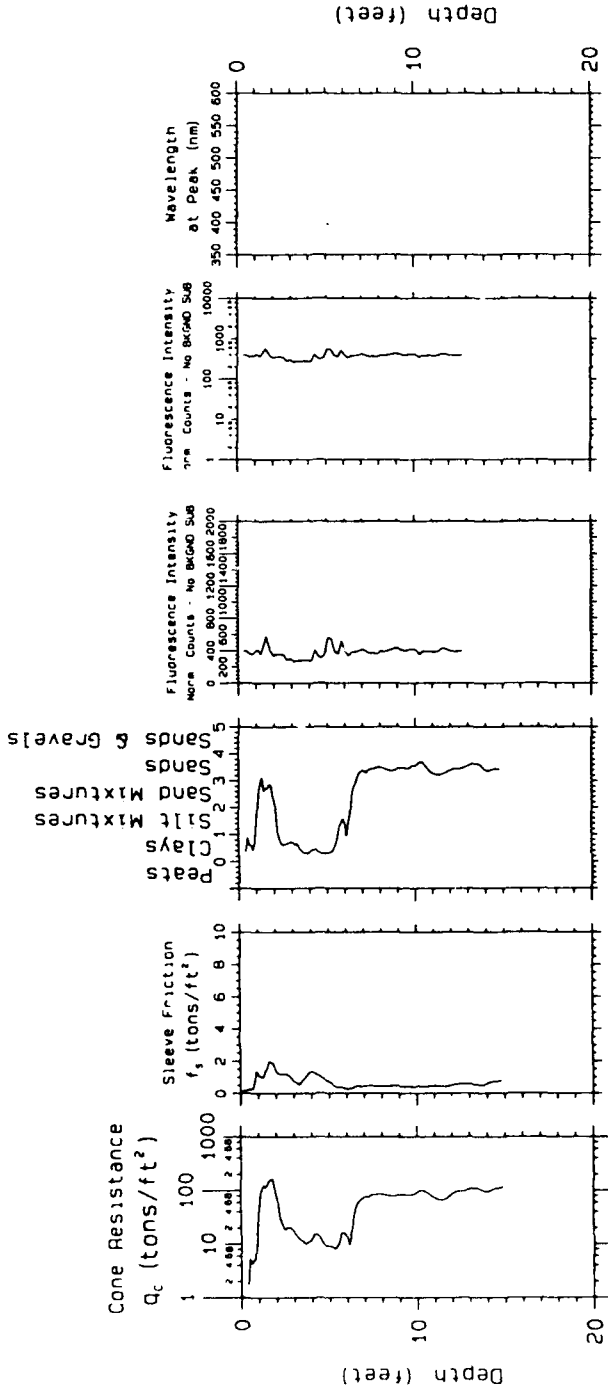
Project; Wisconsin ANG
Probe Depth; 15.05

SCAPS

Site
Characterization
and Analysis
Penetrometer System

CPT; 7WIF04

CPT based SOIL CLASSIFICATION



Laser induced
fluorescence
of PDL via
fiber optics

U S Army
Engineer
District
Kansas City
Geotechnical Branch

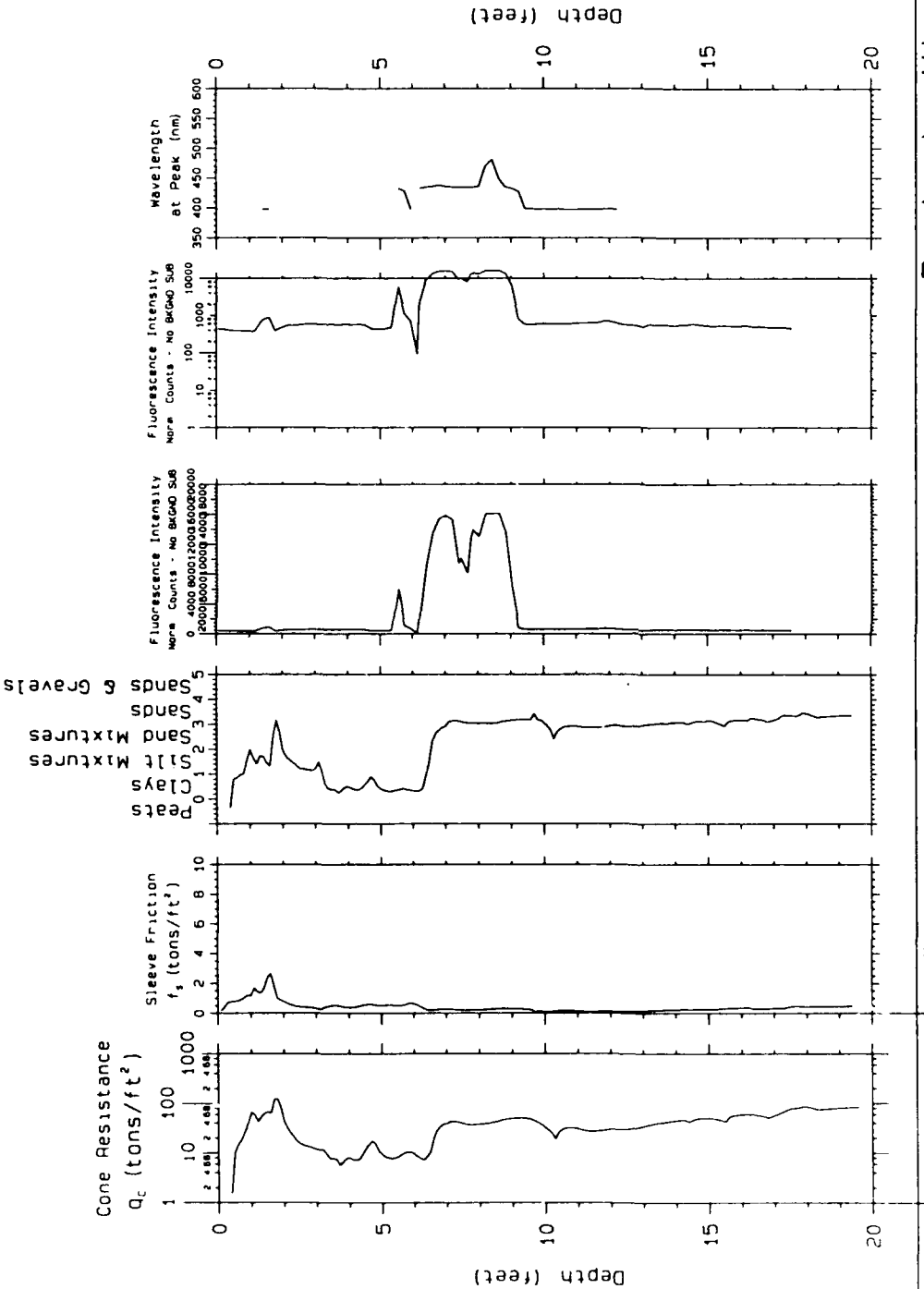
Probing date: 09-13-1994

Project: Wisconsin ANG
Probe Depth: 15.03

SCAPS

Site
Characterization
and Analysis
Penetrometer System
CPT; 8WIF05

CPT based SOIL
CLASSIFICATION



Laser induced
fluorescence
of PDL via
fiber optics

U S Army
Engineer
District
Kansas City
Geotechnical Branch

Printing date 09-13-1994

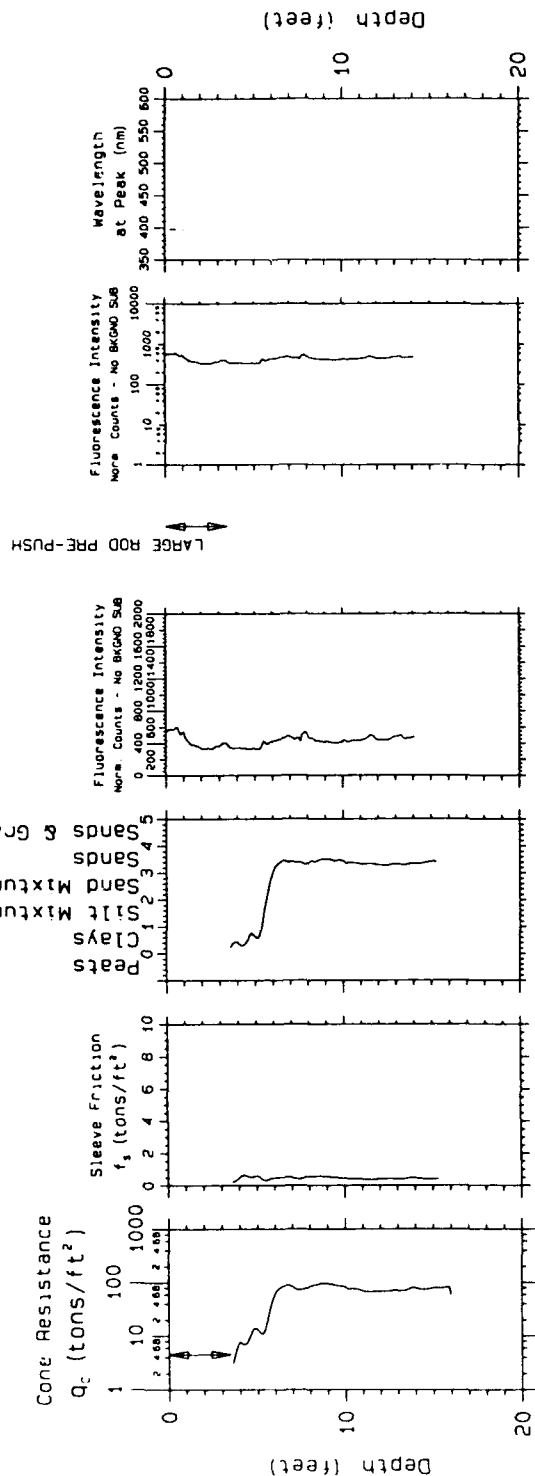
Project: Wisconsin ANG
Probe Depth: 19.73

SCAPS

Site
Characterization
and Analysis
Penetrometer System

CPT; 9WIF06

CPT based SOIL CLASSIFICATION



Laser induced fluorescence of POL via fiber optics

U.S. Army Engineer District Kansas City Geotechnical Branch

Probing date, 09-13-1994

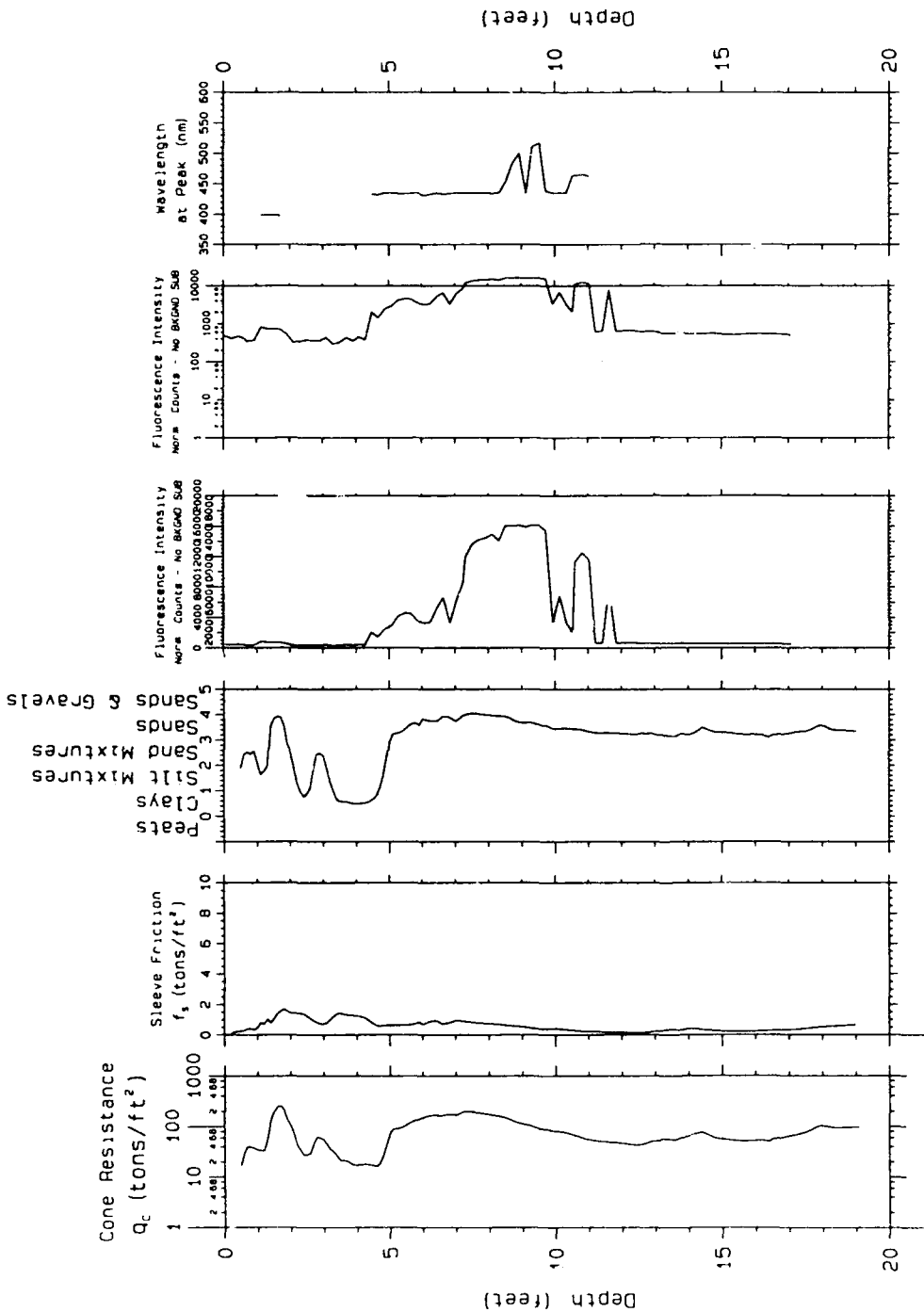
Project; Wisconsin ANG Probe Depth; 16.26

SCAPS

Site Characterization and Analysis Penetrometer System

CPT; 11WIF07

CPT based SOIL
CLASSIFICATION



Laser induced
fluorescence
of POL via
fiber optics

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date. 09-13-1994

Project; Wisconsin ANG
Probe Depth; 19.26

SCAPS

Site
Characterization
and Analysis
Penetrometer System

CPT; 12WIF08

CPT based SOIL CLASSIFICATION

Soils & Gravels
Sands
Sands
Sand
Silt
Mixture
Clay
Mixture
Peat

Cone Resistance
 q_c (tons/ft²)

1 10 100 1000
2.48E1 2.48E2 2.48E3 2.48E4

Sleeve Friction
 f_s (tons/ft²)

0 2 4 6 8 10

0 1 2 3 4 5

Fluorescence Intensity
Norm. Counts - No Background Sub

0 2000 4000 6000 8000 10000
10000 30000 50000 70000 90000

Fluorescence Intensity
Norm. Counts - No Background Sub

0 100 1000 10000
10000 30000 50000 70000 90000

Wavelength
at Peak (nm)

350 400 450 500 550 600

Depth (feet)

Depth (feet)

Laser induced
fluorescence
of PDL via
fiber optics

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date: 09-13-1994

Project: Wisconsin ANG

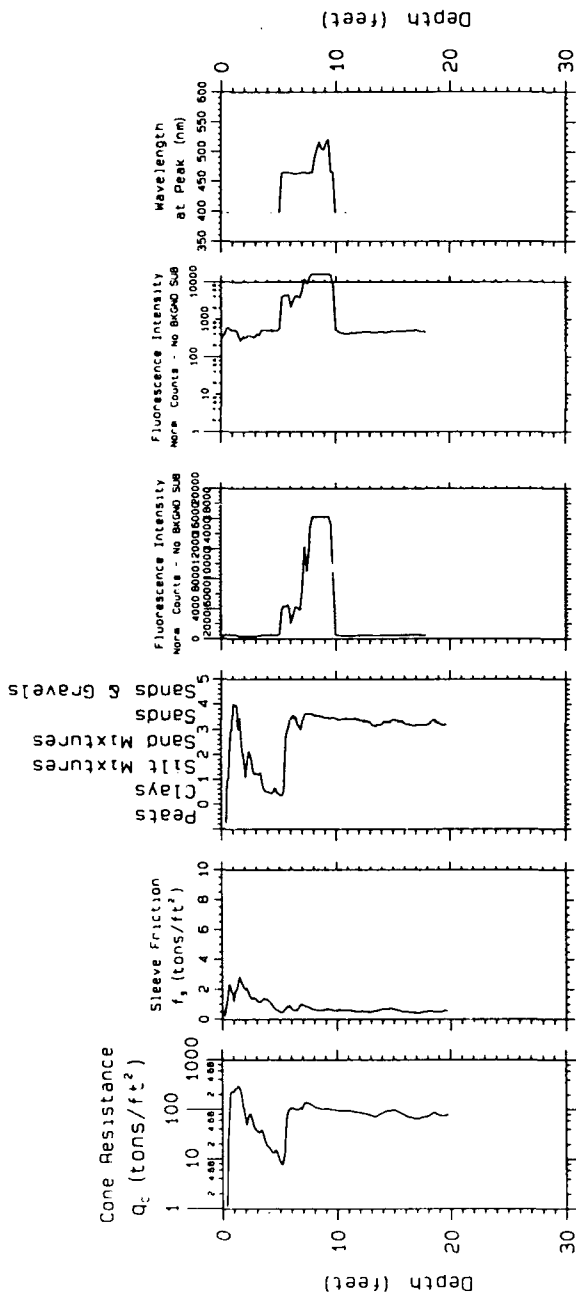
Probe Depth: 19.80

SCAPS

Site
Characterization
and Analysis
Penetrometer System

CPT; 14WIF09

CPT based SOIL CLASSIFICATION



Laser induced fluorescence of PDL via fiber optics

U.S. Army Engineer District Kansas City Geotechnical Branch

Probing date: 09-13-1994

Project; Wisconsin ANG Probe Depth: 20.01

SCAPS

Site Characterization and Analysis Penetrometer System

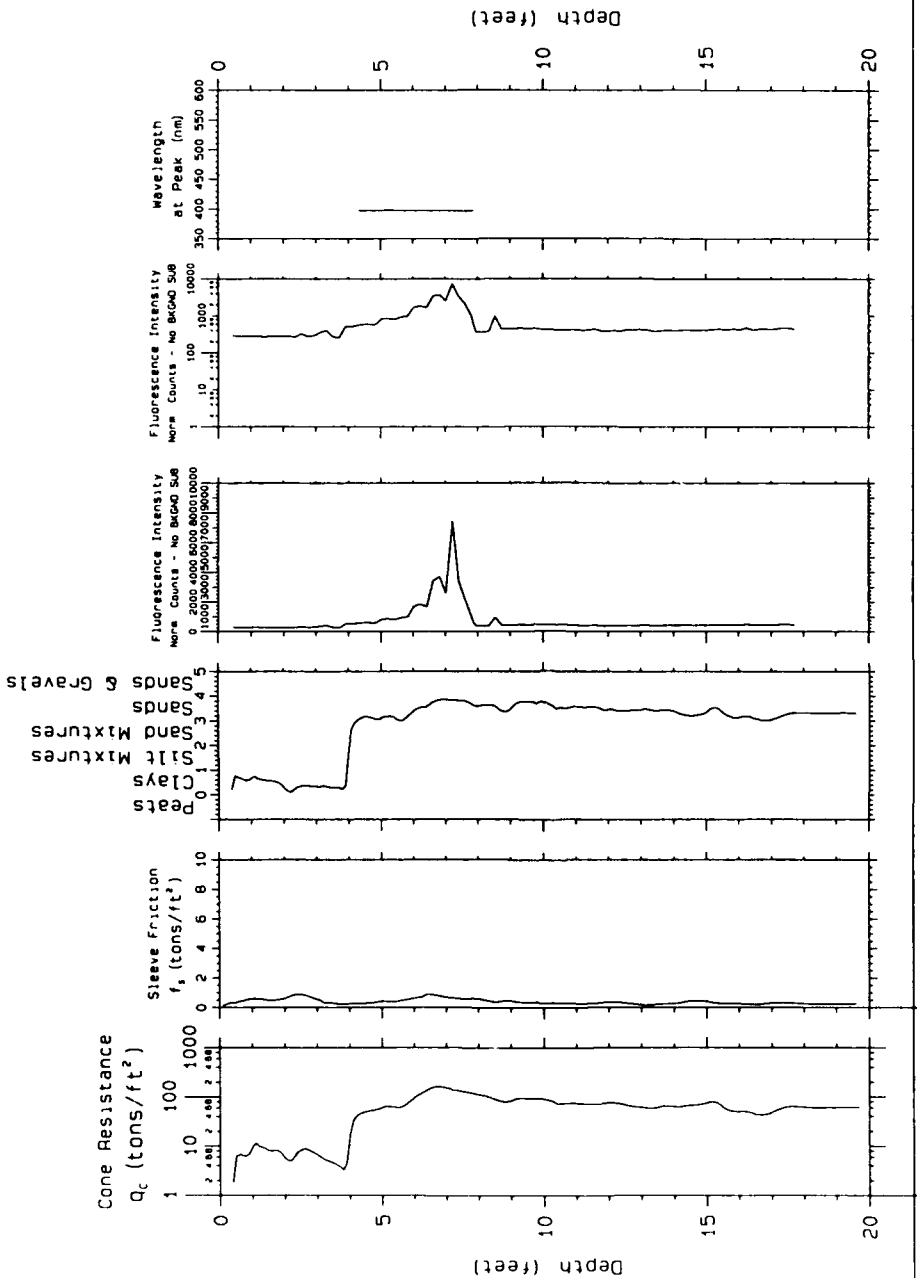
CPT; 15WIF10

GEOLOGIC BORING LOG

Sheet 1 of 1

BORING NO.: CPT7 CONTRACTOR: CORP of ENGINEERS DATE SPUD: 9/16/94
 CLIENT: AFCEE RIG TYPE: Hand Auger DATE CMPL:
 CPT METHOD: ELEVATION:

CPT based SOIL
CLASSIFICATION



Laser induced
fluorescence
of PDL via
fiber optics

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Project: Wisconsin ANG
Probe Depth: 19.86

SCAPS

Site
Characterization
and Analysis
Penetrometer System

CPT; 16WIF11

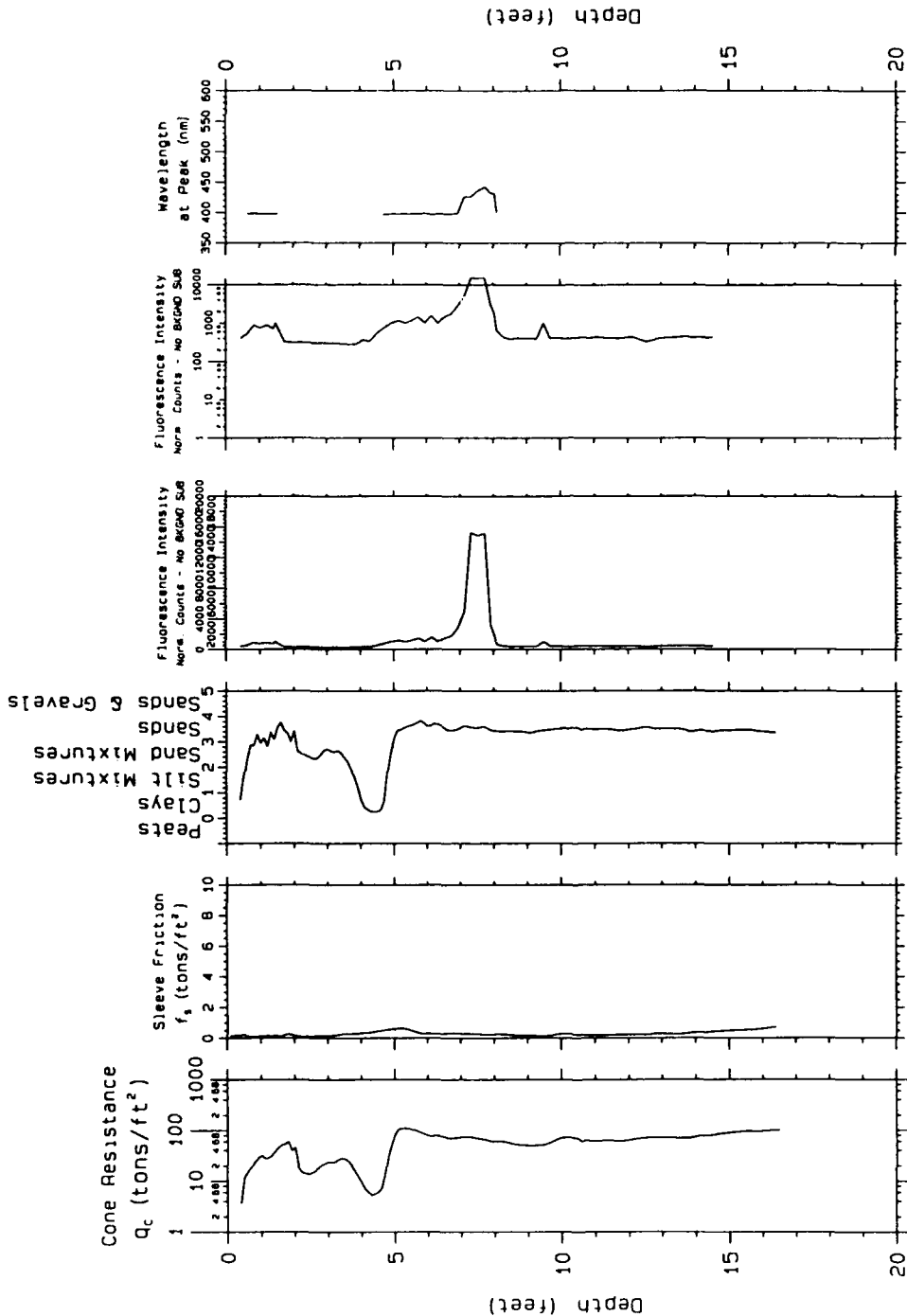
Probing date: 09-13-1994

GEOLOGIC BORING LOG

Sheet 1 of 1

BORING NO.: CPT9 CONTRACTOR: CORP of ENGINEERS DATE SPUD: 9/16/94
CLIENT: AFCEE RIG TYPE: Hand Auger DATE CMPL.: _____
JOB NO.: 722450.09 DRIG METHOD: _____ ELEVATION: _____

CPT based SOIL CLASSIFICATION



Laser induced
fluorescence
of PDL via
fiber optics

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date: 09-13-1994

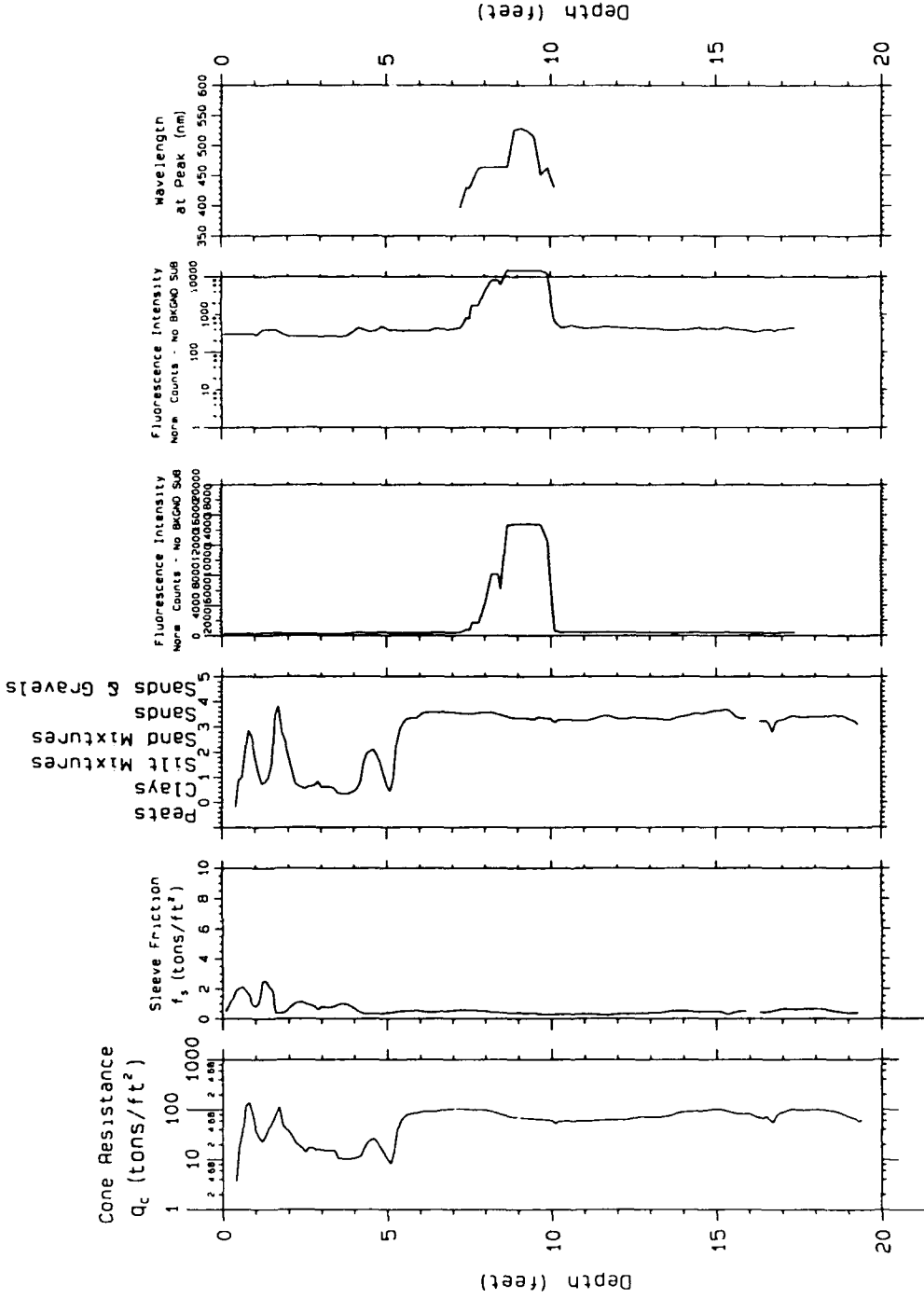
Project: Wisconsin ANG
Probe Depth: 16.73

SCAPS

Site
Characterization
and Analysis
Penetrometer System

CPT; 17WIF12

CPT based SOIL
CLASSIFICATION



Laser induced
fluorescence
of POL via
fiber optics

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Project; Wisconsin ANG
Probe Depth: 19.54

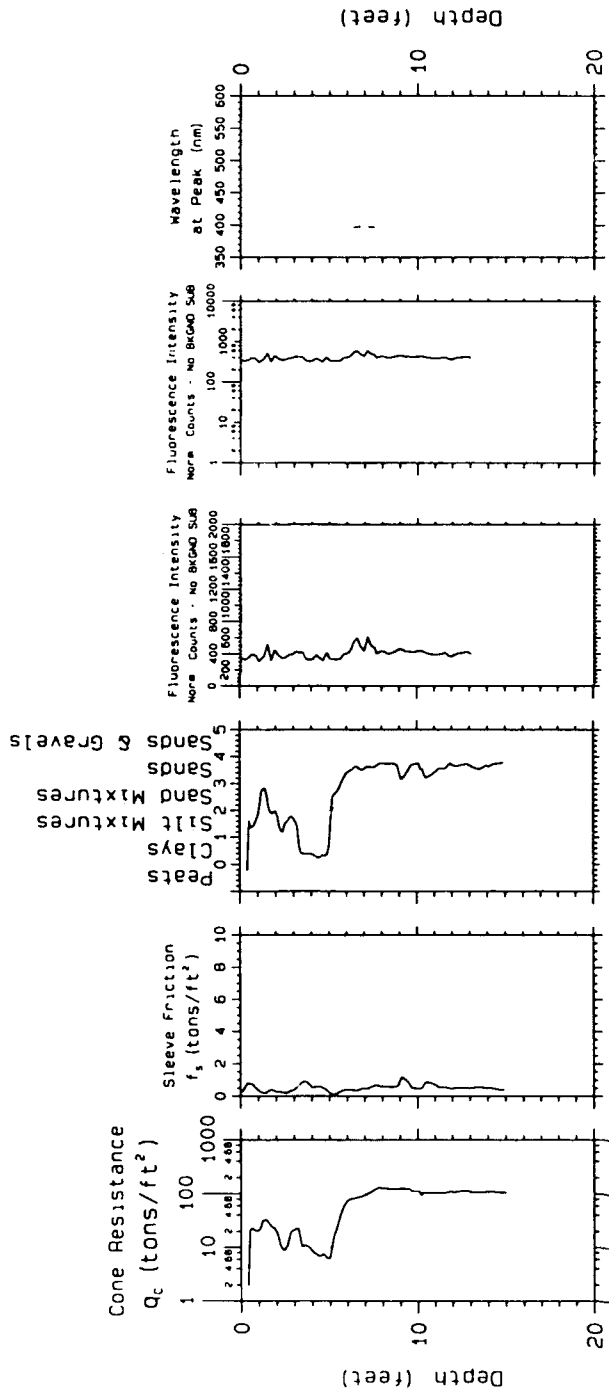
SCAPs

Site
Characterization
and Analysis
Penetrometer System

CPT; 18WIF13

Probing date: 09-13-1994

CPT based SOIL CLASSIFICATION



Laser induced
fluorescence
of PDL via
fiber optics

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date: 09-13-1994

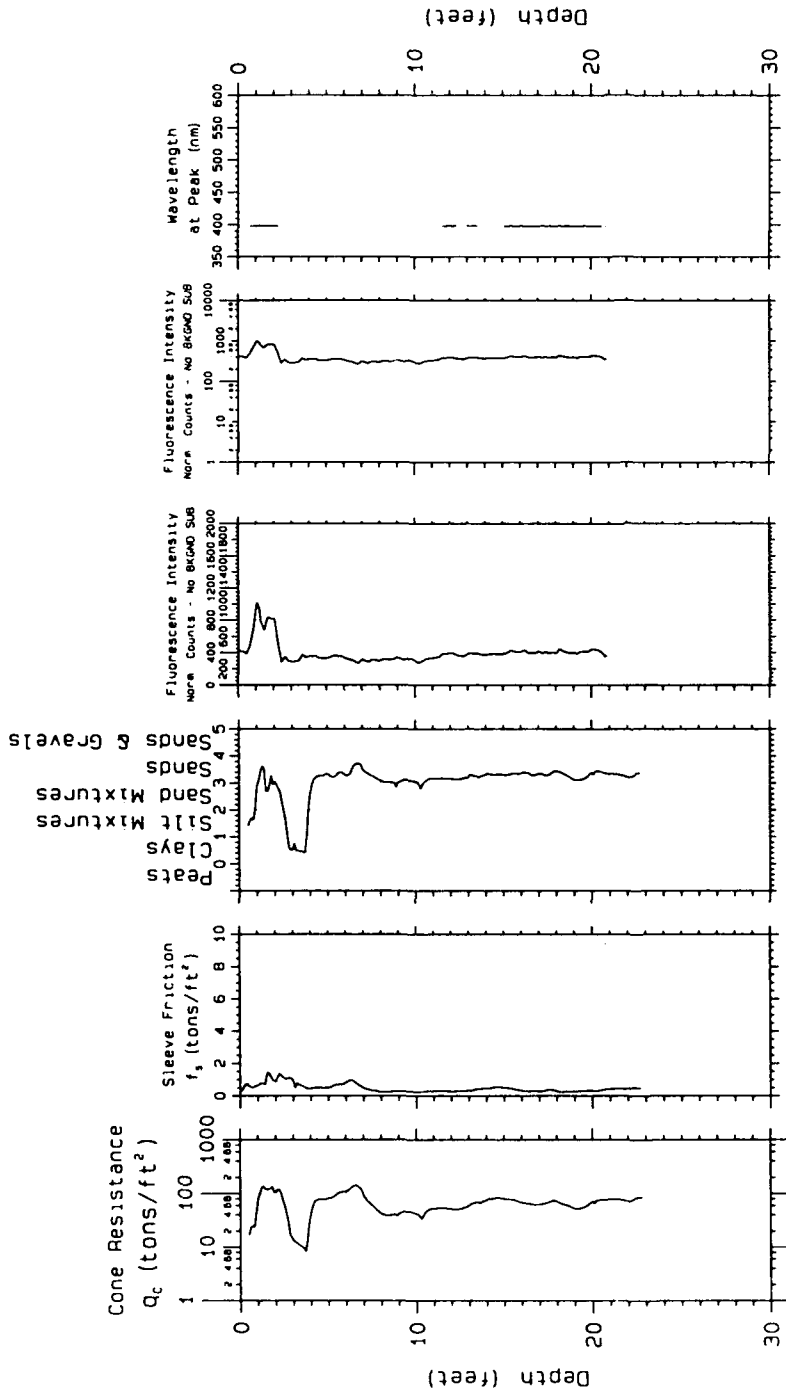
Project; Wisconsin ANG
Probe Depth: 15.17

SCAPS

Site
Characterization
and Analysis
Penetrometer System

CPT; 19WIF14

CPT based SOIL CLASSIFICATION



Laser induced
fluorescence
of PDL via
fiber optics

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date: 09-14-1994

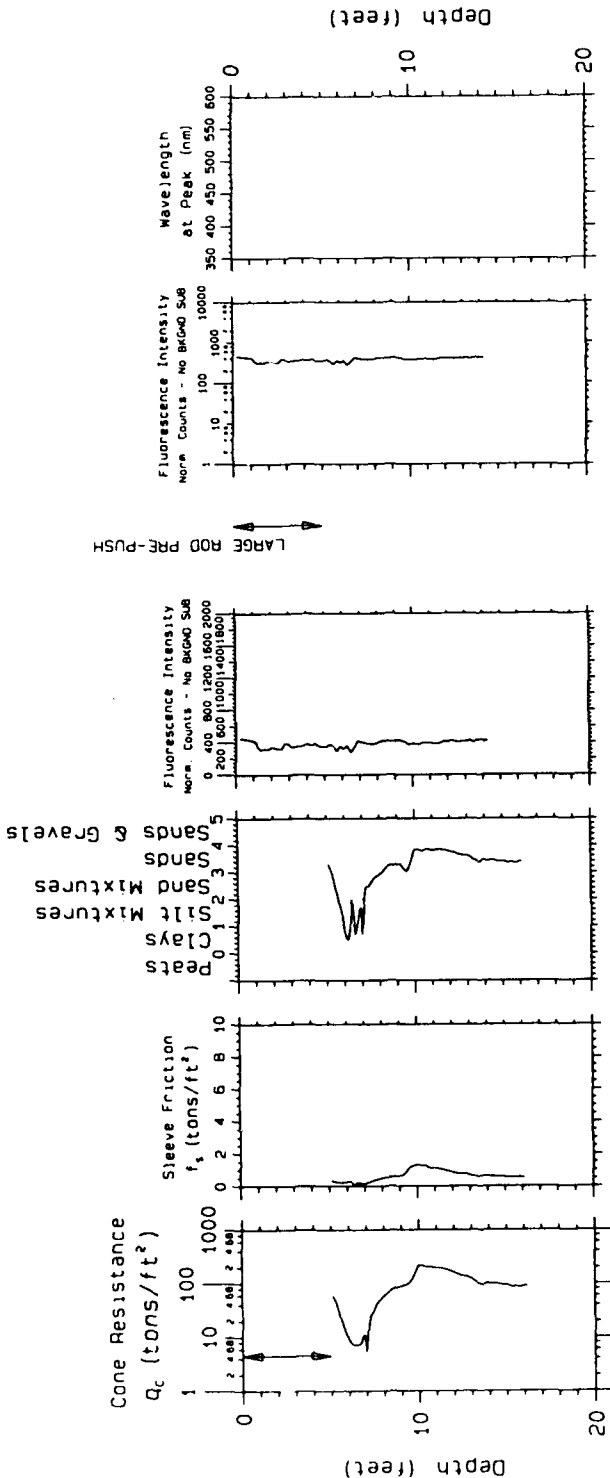
SCAPS

Site
Characterization
and Analysis
Penetrometer System

Project: Wisconsin ANG
Probe Depth: 23.02

CPT; 20WIF15

CPT based SOIL CLASSIFICATION



Project; Wisconsin ANG
Probe Depth; 16.40

SCAPS

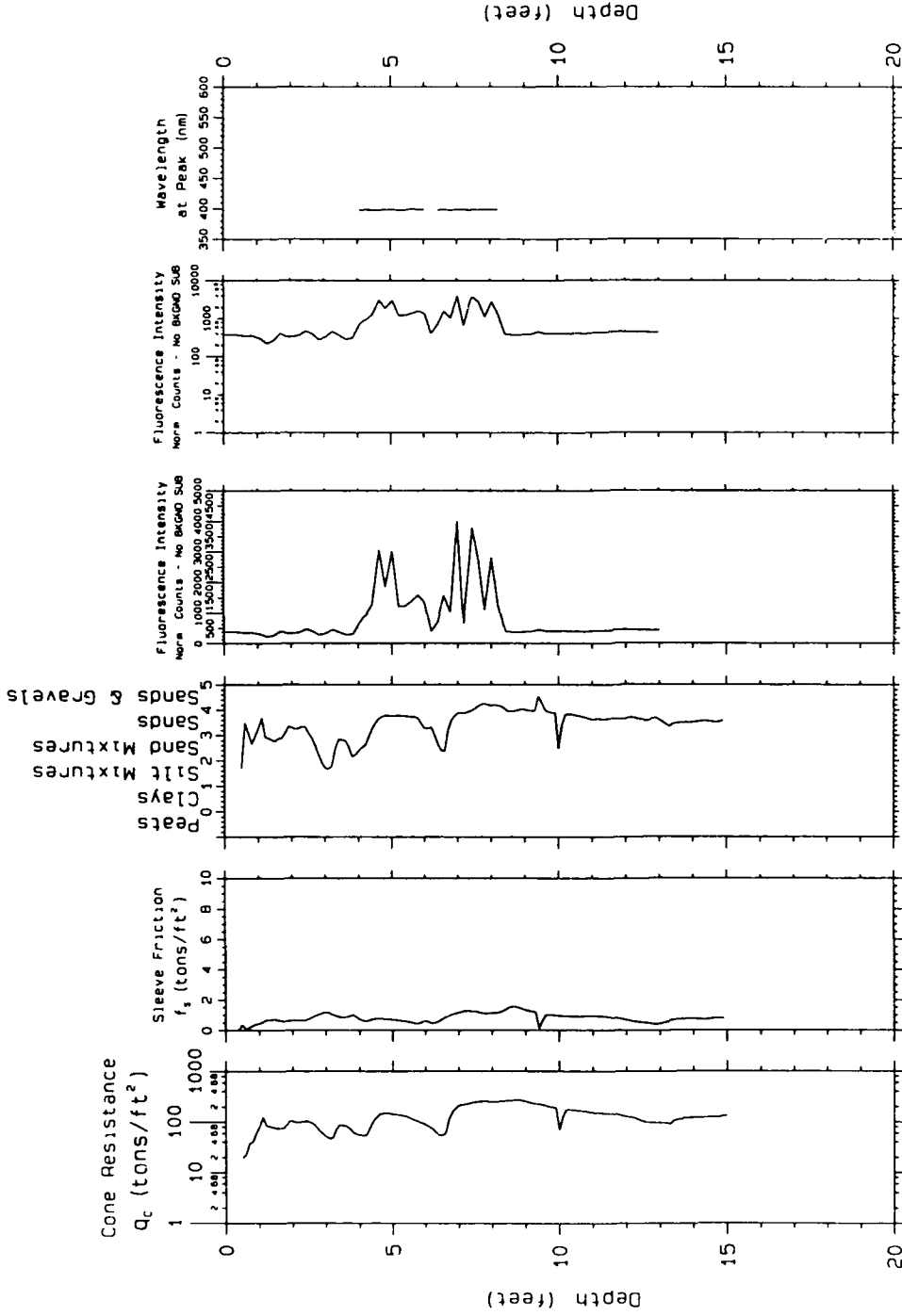
Site
Characterization
and Analysis
Penetrometer System
CPT; 23WIF16

Laser induced
fluorescence
of POL via
fiber optics

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date. 09-14-1994

CPT based SOIL CLASSIFICATION



Laser induced
fluorescence
of PDL via
fiber optics

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

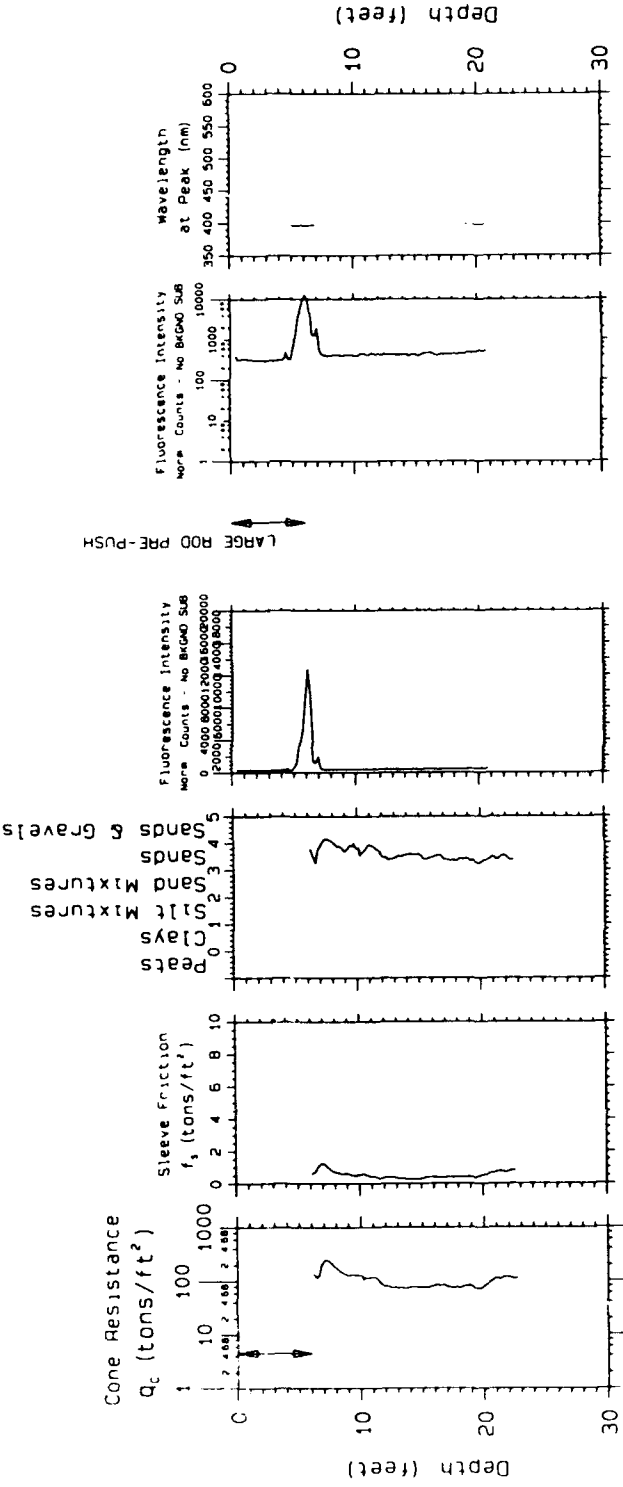
Probing date, 09-14-1994

Project; Wisconsin ANG
Probe Depth; 15.18

SCAPS

Site
Characterization
and Analysis
Penetrometer System
CPT; 24WIF16

CPT based SOIL CLASSIFICATION



Project; Wisconsin ANG
Probe Depth; 22.92

SCAPS

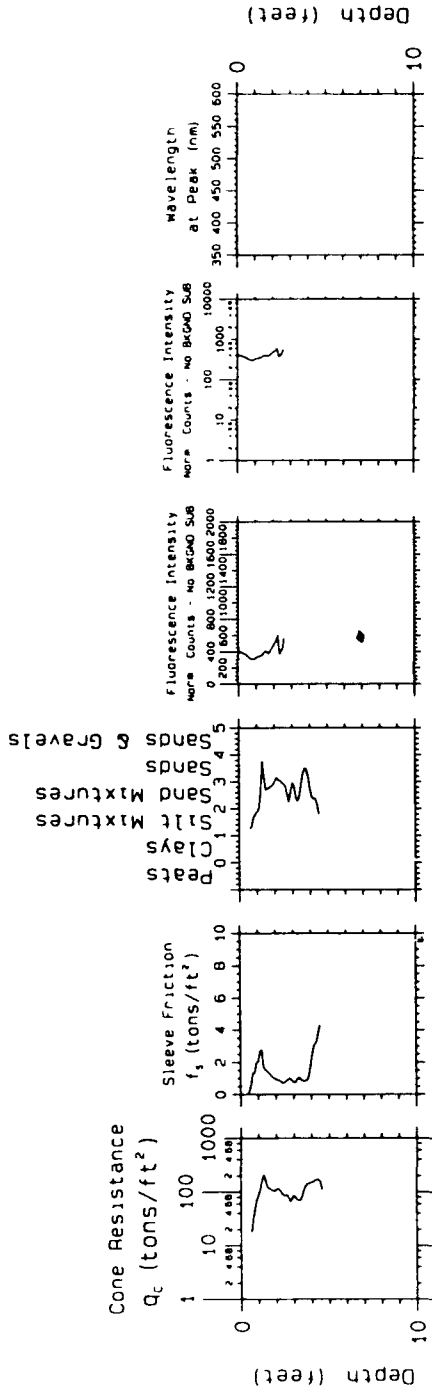
Site
Characterization
and Analysis
Penetrometer System
CPT; 27WIF17

Laser induced
fluorescence
of POL via
fiber optics

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date. 09-14-1994

CPT based SOIL CLASSIFICATION



Laser induced
fluorescence
of POL via
fiber optics

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Drawing date: 09-14-1994

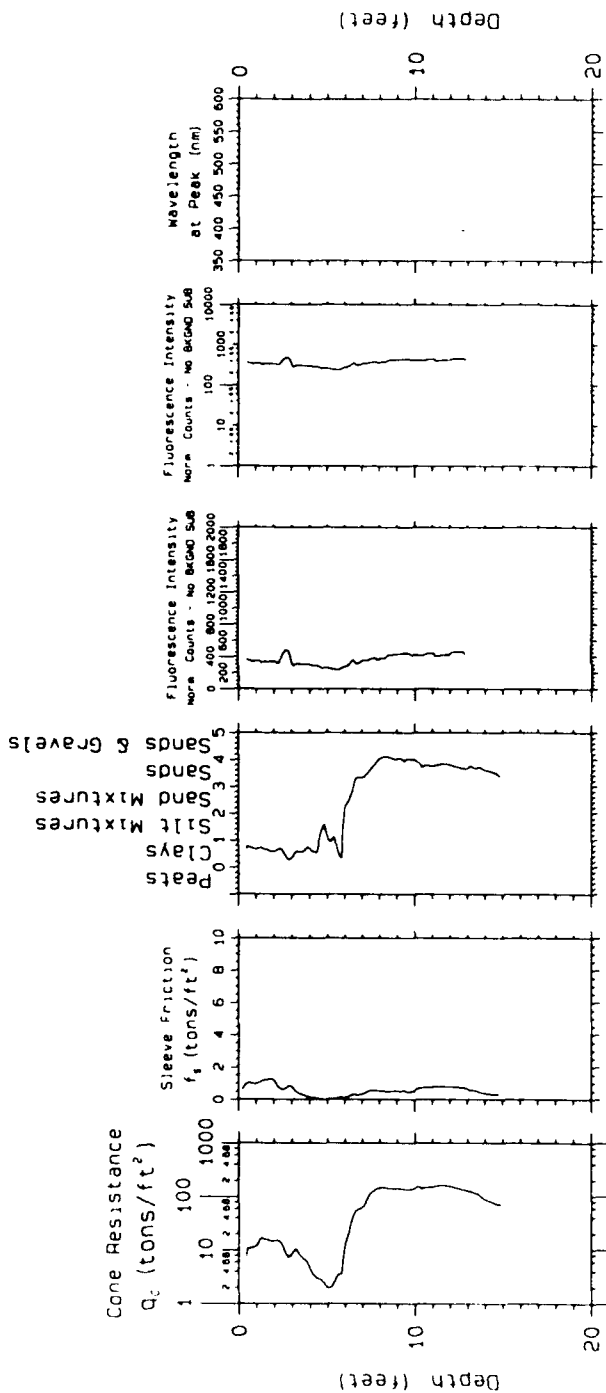
Project: Wisconsin ANG
Probe Depth: 4.770

SCAPS

Site
Characterization
and Analysis
Penetrometer System

CPT; 25WIF17

CPT based SOIL CLASSIFICATION



Laser induced
fluorescence
of PQL via
fiber optics

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Processing date: 09-14-1994

Project: Wisconsin ANG

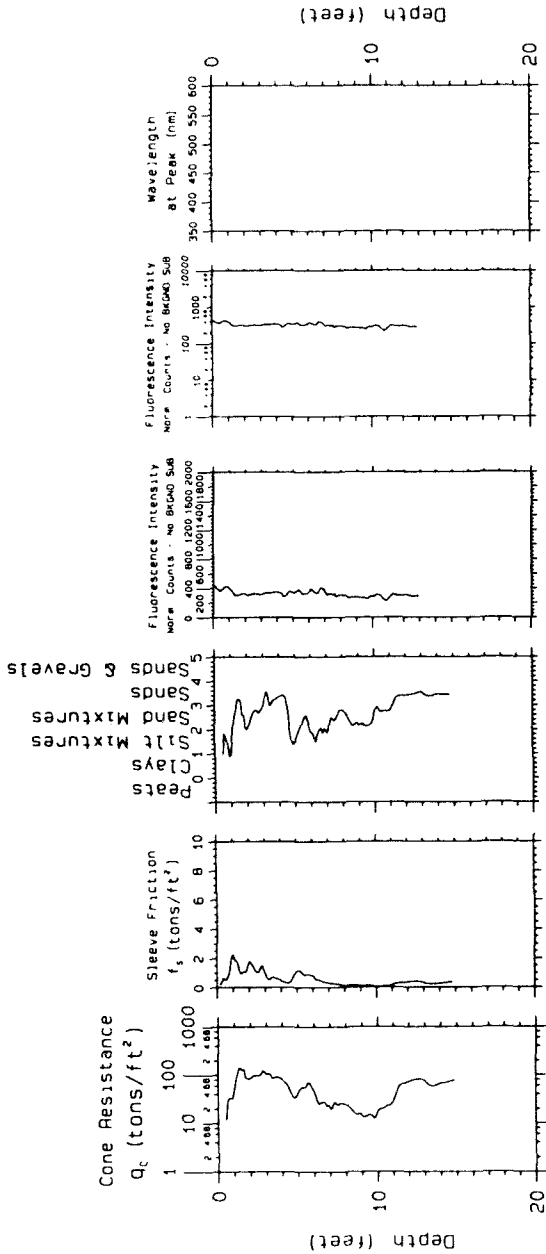
Probe Depth: 15.05

SCAPS

Site
Characterization
and Analysis
Penetrometer System

CPT; 33WIF18

CPT BASED SOIL
CLASSIFICATION



Laser induced
fluorescence
of POL via
fiber optics

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date: 09-15-1994

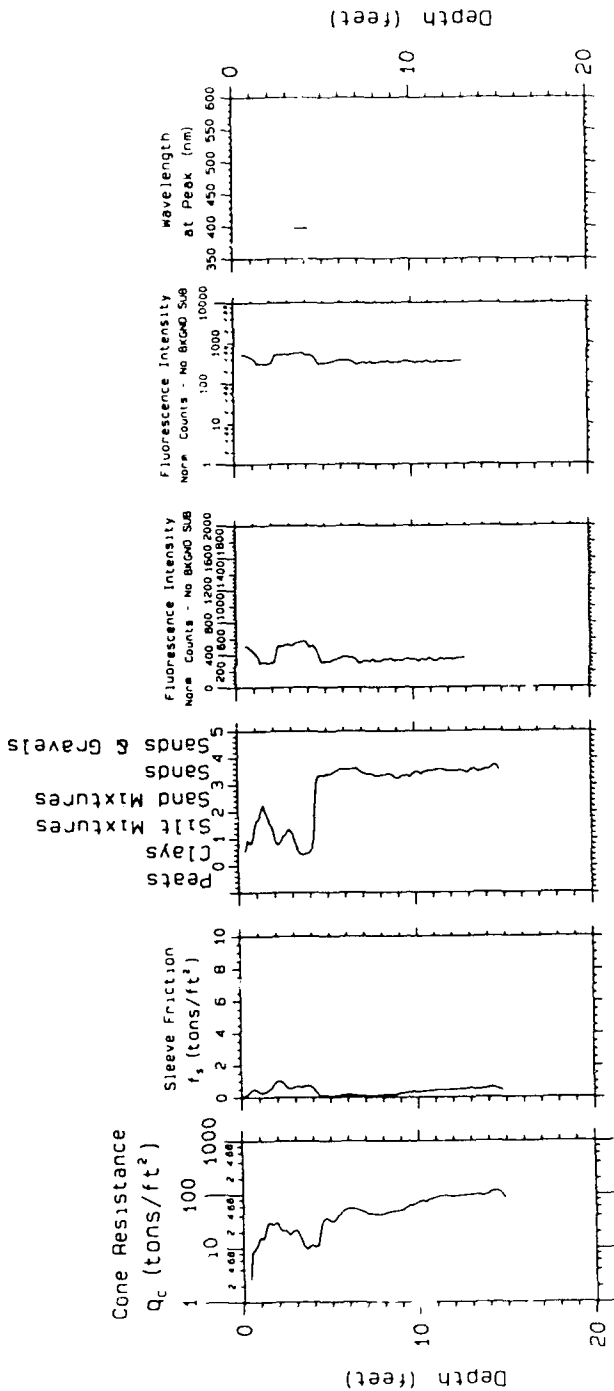
Project: Wisconsin ANG
Probe Depth: 15.04
CPT; 47WIF19

SCAPS
Site
Characterization
and Analysis
Penetrometer System

MONITORING POINT INSTALLATION RECORD

JOB NAME MADISON ANG MONITORING POINT NUMBER LPT4D
JOB NUMBER 722450.09020 INSTALLATION DATE 9/14/94 LOCATION S of POL
DATUM ELEVATION _____ GROUND SURFACE ELEVATION _____

CPT based SOIL CLASSIFICATION



Project; Wisconsin ANG
Probe Depth; 15.10

SCAPS

Site
Characterization
and Analysis
Penetrometer System

CPT; 53WIF20

Laser induced
fluorescence
of PDL via
fiber optics

U S Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date. 09-15-1994

GEOLOGIC BORING LOG

Sheet 1 of 1

BORING NO.: CPT 3 CONTRACTOR: CORP of ENGINEERS DATE SPUD: 9/16/94
 CLIENT: AFCEE RIG TYPE: Hand Auger DATE CMPL.: _____
 JOB NO.: 722450.09 DRLG METHOD: _____ ELEVATION: _____
 LOCATION: MADISON BORING DIA.: _____ TEMP: 70° Mostly Sunny
 GEOLOGIST: MS DRLG FLUID: _____ WEATHER: Wind 16 mph H SW
 COMENTS: _____

Elev (ft)	Depth (ft)	Pro- file	US CS	Geologic Description	Sample		Penet Res	PID (ppm)	TLV (ppm)	TOTAL BTEX (ppm)	TPH (ppm)
					No.	Depth (ft)					
	1			0-6" Clayey silt - organic rich top 2-3", dk br							
				6" Silty clay - brown, damp							
				2.5' - Sand, med, & Clay, well sorted, brown,							
				moist							
	5			3' - SAA, little clay							
				3.5' - SAA, & clay							
				4.5' - SAA, v. moist							
	10			5' - collect sample for							
				BTEX, TVH, T&H, TUC							
				MS/MSD							
	15			5' - SAA, little gravel							
				5.5' - SAA, tan							
	20										
	25										
	30										
	35										

NOTES

bgs - Below Ground Surface
 GS - Ground Surface
 TOC - Top of Casing
 NS - Not Sampled
 SAA - Same As Above

SAMPLE TYPE

D - DRIVE
 C - CORE
 G - GRAB

▼ Water level drilled

Sheet 1 of 1

[illegible]

SAMPLE TYPE

 Water level drilled

GEOLOGIC BORING LOG

Sheet 1 of 1

BORING NO.: CPT9 CONTRACTOR: CORP of ENGINEERS DATE SPUD: 9/16/94
 CLIENT: AFCEE RIG TYPE: Hand Auger DATE CMPL.: _____
 JOB NO.: 722450.09 DRLG METHOD: _____ ELEVATION: _____
 LOCATION: MADISON BORING DIA.: _____ TEMP: 70 Cloudy
 GEOLOGIST: MS DRLG FLUID: _____ WEATHER: 5-16 mph wind SW
 COMENTS: _____

Elev (ft)	Depth (ft)	Pro- file	US CS	Geologic Description	Sample		Penet Res	PID(ppm)	TLV(ppm)	TOTAL BTEX(ppm)	TPH (ppm)
					No.	Depth (ft)					
	1			0-1' Gravel + Top soil							
				1-3.5' silty clay, lime sand, brown, moist							
	5			3.5-5' Silt, dk grayish black, lacustrine(?) grading to clay, lacustrine(?) olive gray							
				5-5.2' Silt and vf sand, grayish tan, silty, odor							
	10			5.2-5.7 Sand, f-m, grayish tan, free odor, moist							
				Collected sample from 5.2-5.7'							
				WANG-CPT9-5.5 and Dup							
	20			WANG-CPT21-6							
	25										
	30										
	35										

NOTES

bgs - Below Ground Surface
 GS - Ground Surface
 TOC - Top of Casing
 NS - Not Sampled
 SAA - Same As Above

SAMPLE TYPE

D - DRIVE
 C - CORE
 G - GRAB



Water level drilled

M:\45009\DRAWNGS\94DN0982, 09/01/94 at 10:30

MONITORING POINT INSTALLATION RECORD

JOB NAME MADISON ANGB MONITORING POINT NUMBER CPT175
 JOB NUMBER 722450.09020 INSTALLATION DATE 9/14/94 LOCATION SW of Bldg 412
 BATHY ELEVATION _____ GROUND SURFACE ELEVATION _____

GEOLOGIC BORING LOG

Sheet 1 of 1

BORING NO.: CPT 18 - HA CONTRACTOR: CORP of ENGINEERS DATE SPUD: 9/15/94
 CLIENT: AFCEE RIG TYPE: Hand Auger DATE CMPL.:
 JOB NO.: 722450.09 DRLG METHOD: ELEVATION:
 LOCATION: MADISON BORING DIA: 2.5" TEMP: 51.0
 GEOLOGIST: MS DRLG FLUID: WEATHER: Sunny, light wind from South
 COMMENTS:

Elev (ft)	Depth (ft)	Pro- file	US CS	Geologic Description	Sample	Sample	Penet	PHD(ppm)	TLV(ppm)	BTX(ppm)	TPH (ppm)
					No.	Depth (ft)	Type				
	1			Surface Clayey Silt, ^{grey} ~~rust~~ , w/ dk brown, moist							
	5			1' - SIA - except same mottled w/ little clay, lt brown, damp							
				3' - Clay, mottled brown, lt brown + rust, moist							
	10			4' - silt, tan (3") Clay, tan, rust stained, moist							
	15			Wet, saturated @ 5' T.D. 5.8 ft							
	20										
	25										
	30										
	35										

NOTES

bgs - Below Ground Surface
 GS - Ground Surface
 TOC - Top of Casing
 NS - Not Sampled
 SAA - Same As Above

SAMPLE TYPE

D - DRIVE
 C - CORE
 G - GRAB

▼ Water level drilled

GEOLOGIC BORING LOG

Sheet 1 of 1

BORING NO.: 6P720 CONTRACTOR: CORP of ENGINEERS DATE SPUD: 9/16/94
 CLIENT: AFCEE RIG TYPE: Hand Auger DATE CMPL: _____
 JOB NO.: 722450.09 DRLG METHOD: _____ ELEVATION: _____
 LOCATION: MADISON BORING DIA.: _____ TEMP: 75° Sunny
 GEOLOGIST: MS DEM DRLG FLUID: _____ WEATHER: 10 mph wind
 COMMENTS: _____

Elev (ft)	Depth (ft)	Pro- file	US CS	Geologic Description	Sample		Penet Res	PID(ppm)	TLV(ppm)	TOTAL BTEX(ppm)	TPH (ppm)
					No.	Depth (ft)					
	1			0-1 organic-rich silt topsoil, dk brown							
				1' Sand, little silt, no gravel, well sorted, med grained, tan							
	5			1.5-4' Mixed layer of med sand & silty, organic topsoil							
				4' Silty Clay, slightly gray-brown							
				4.5' Sand, fine, well sorted, tan, no fines, moist							
	15			7.0 7.5 Collect sample for TVH, TEH, BTEX							
				SAN, no gravel, v. moist							
	20										
	25										
	30										
	35										

NOTES

bgs - Below Ground Surface
 GS - Ground Surface
 TOC - Top of Casing
 NS - Not Sampled
 SAA - Same As Above

SAMPLE TYPE

D - DRIVE
 C - CORE
 G - GRAB



Water level drilled

Route To:

- ☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Page 1 of 1

Agency/Project Name: #782 Wisconsin Air National Guard
License/Permit/Monitoring Number: _____ Boring Number: CPT 7
Boring Drilled By (Firm name and name of crew chief): Steve Gaffield
Date Drilling Started: 11/10/94 Date Drilling Completed: 11/10/94 Drilling Method: Hand Auger
DNR Facility Well No.: _____ WI Unique Well No.: _____ Common Well Name: _____ Final Static Water Level: _____ Feet MSL
Surface Elevation: _____ Feet MSL Borehole Diameter: 2 inches
Boring Location: State Plane: SE 1/4 of NW 1/4 of Section 29, T 8 N, R 10 EW Long 89° 20' 08" W Local Grid Location (If applicable): _____ Feet N _____ Feet E _____ Feet S _____ Feet W
County: Dane DNR County Code: _____ Civil Town/City/ or Village: _____

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit Logged by Steve Gaffield	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					P 200	ROD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit			
			1	Grass very dark brown silt w/ trace clay	ML					14					
			2												
			3	brn silt with some sand and clay, gray mottled	ML					M					
			4	black clay											
			5	gray clay											
			6	silty sand, tan											
			7												
			8	Yellowish brown silty sand, increased moisture content sampled 7.8 - 8.3 feet	SM					M					
			9	End of boring at 8.3 ft.						W					
			10												
			11												
			12												

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature: *Steve Gaffield* Firm: BT², Inc.

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

- ☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

Agency/Project Name # 782 Wisconsin Air National Guard		License/Permit/Monitoring Number		Boring Number CPT 9	
Boring Drilled By (Firm name and name of crew chief) Steve Gaffield BT ² , Inc.		Date Drilling Started 11/07/94 MM DD YY		Date Drilling Completed 11/11/94 MM DD YY	
DNR Facility Well No. WI Unique Well No.		Common Well Name		Drilling Method Hand Auger	
Final Static Water Level		Surface Elevation		Borehole Diameter 2 inches	
Boring Location State Plane		Local Grid Location (If applicable)			
SE 1/4 of NW 1/4 of Section 29, T 8 N, R 10 E W		Lat 43° 7' 54" N		Long 89° 20' 08" W	
County Dane		DNR County Code		Civil Town/City/Village Madison	

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit Logged by Steve Gaffield	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			1	GRUSS brown clayey silt, homogenous	ML					M				
			2											
			3											
			4	tan silty sand	SM					M				
			5	sampled 5.5 - 6.0 ft						M				
			6	End of boring at 6.0 feet										
			7											
			8											
			9											
			10											
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature Steve Gaffield Firm BT², Inc.

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Route To:

- ☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Page 1 of 1

Agency/Project Name # <u>782 Wisconsin Air National Guard</u>		License/Permit/Monitoring Number _____		Boring Number <u>CPT 10</u>	
Boring Drilled By (Firm name and name of crew chief) <u>Steve Gaffield</u> <u>BT², Inc.</u>		Date Drilling Started <u>11/07/94</u> M M D D Y Y		Date Drilling Completed <u>11/07/94</u> M M D D Y Y	
DNR Facility Well No. _____		WI Unique Well No. _____		Common Well Name _____	
Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL		Borehole Diameter <u>2</u> inches	
Boring Location State Plane _____ N. _____ E S/C/N _____ Lat <u>45° 7' 54" N</u>		Local Grid Location (If applicable) ☐ N ☐ E ☐ S ☐ W			
County <u>Dane</u>		DNR County Code _____		Civil Town/City/ or Village _____	
SE 1/4 of NW 1/4 of Section <u>29</u> , T <u>8</u> N, R <u>10</u> E, Long <u>89° 20' 08" W</u>					

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit <i>Logged by Steve Gaffield</i>	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			1	~~Gravel - blocky at 6 inches~~ ~~coarser - refusal at 1.5 feet - tried 4 locations~~										
			2											
			3											
			4											
			5	~~sampled 5.5 feet~~										
			6											
			7	~~End of boring at~~										
			8											
			9											
			10											
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature Steve Gaffield Firm BT², Inc.

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Route To:

- ☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Page 1 of 1

Agency/Project Name: #782 Wisconsin Air National Guard License/Permit/Monitoring Number: Boring Number: CPT 20
Boring Drilled By (Firm name and name of crew chief): Steve Gaffield Date Drilling Started: 11/07/94 Date Drilling Completed: 11/07/94 Drilling Method: Hand Auger
DNR Facility Well No.: WI Unique Well No.: Common Well Name: Final Static Water Level: Surface Elevation: Borehole Diameter: 2 inches
Boring Location: State Plane: SE 1/4 of NW 1/4 of Section 29, T 8 N, R 10 E W Long 89° 20' 08" W Local Grid Location (If applicable):
County: Dane DNR County Code: Civil Town/City/ or Village:

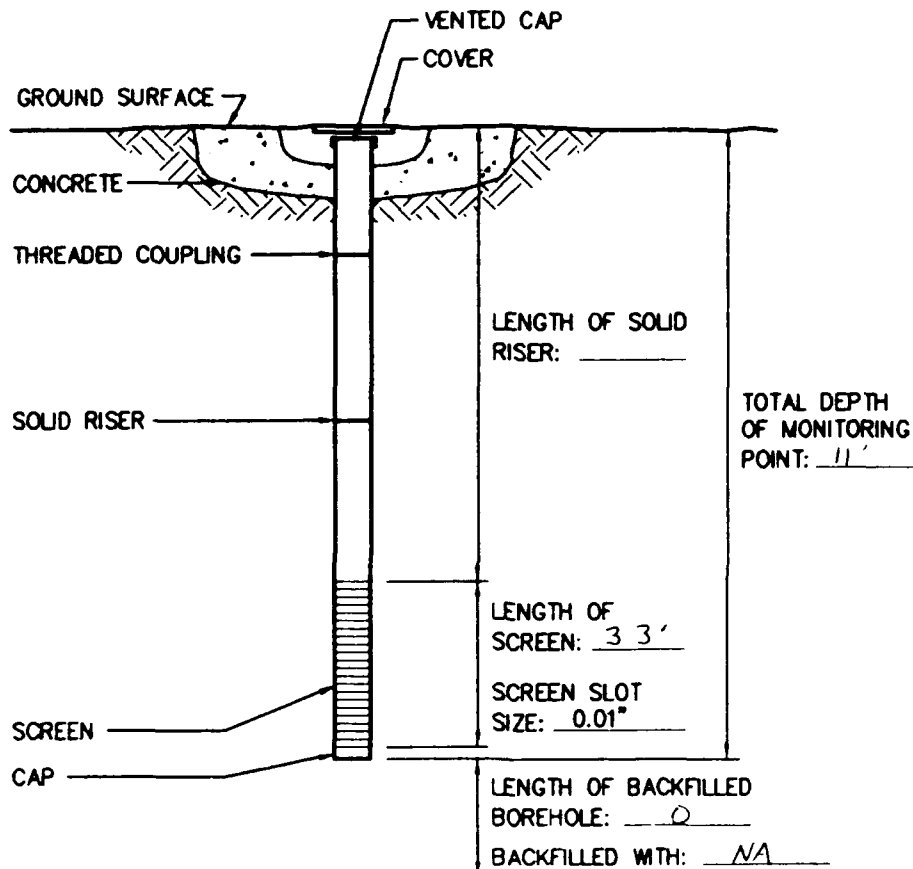
Sample		Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit Logged by Steve Gaffield	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/ Comments
Number	Length Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
				Grass										
			1	Very dark brown silt, homogeneous	ML					M				
			2	Tan silty sand w/ some gravel	SM									
			3	Very dark brown silt with some clay, homogeneous	ML					M				
			4	← black clay										
			5	brownish gray silty sand	SM					M				
			6											
			7	sampled 6.8-7.5 feet (as above)						M				
			8	E.O.B. @ 7.5'										
			9											
			10											
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature: Steve Gaffield Firm: BT², Inc.

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

MONITORING POINT INSTALLATION RECORD

JOB NAME MADISON ANGB MONITORING POINT NUMBER OPT 15
JOB NUMBER 722450.09020 INSTALLATION DATE 9/15/94 LOCATION 300' SE of PCL
DATUM ELEVATION _____ GROUND SURFACE ELEVATION _____
DATUM FOR WATER LEVEL MEASUREMENT _____
SCREEN DIAMETER & MATERIAL 0.5" ID PVC SLOT SIZE 0.010"
RISER DIAMETER & MATERIAL 0.5" ID PVC BOREHOLE DIAMETER 1.8"
CONE PENETROMETER CONTRACTOR CORP of ENGINEERS ES REPRESENTATIVE MS DM



(NOT TO SCALE)

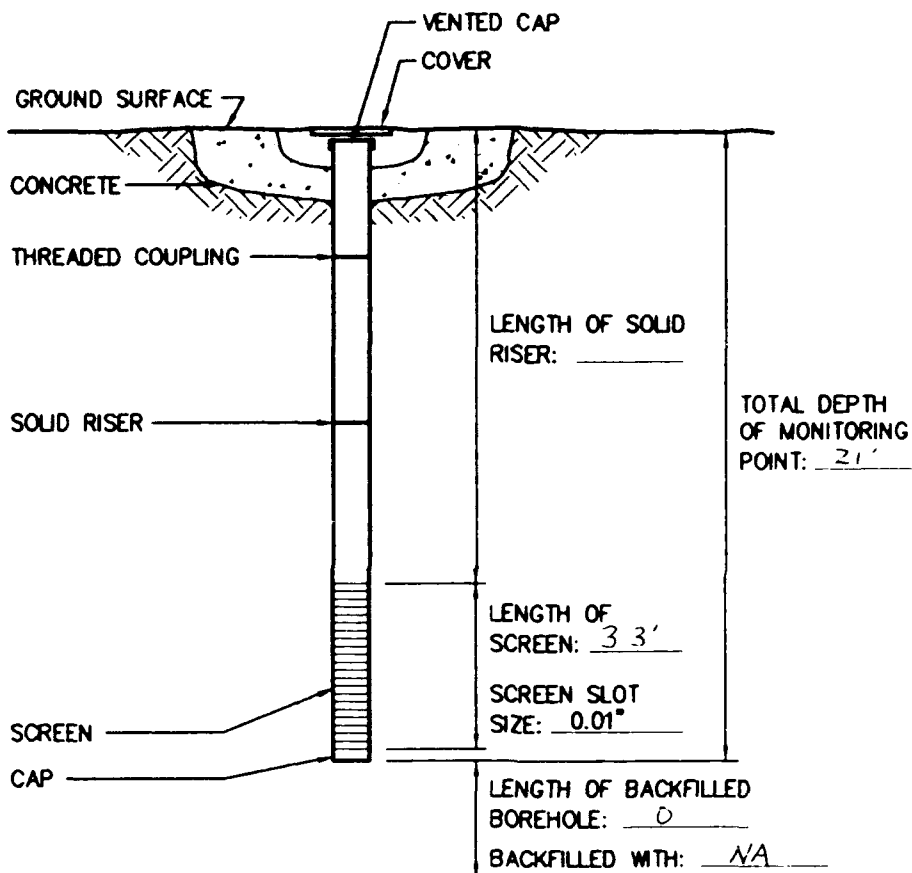
STABILIZED WATER LEVEL No Water FEET
BELOW DATUM.

TOTAL MONITORING POINT DEPTH 10.58 FEET
BELOW DATUM.

GROUND SURFACE _____ FEET

MONITORING POINT INSTALLATION RECORD

JOB NAME MADISON ANGB MONITORING POINT NUMBER CPT-11
JOB NUMBER 722450.09020 INSTALLATION DATE 9/15/94 LOCATION 300 SE 1 PCL
DATUM ELEVATION _____ GROUND SURFACE ELEVATION _____
DATUM FOR WATER LEVEL MEASUREMENT _____
SCREEN DIAMETER & MATERIAL 0.5" ID PVC SLOT SIZE 0.010"
RISER DIAMETER & MATERIAL 0.5" ID PVC BOREHOLE DIAMETER 1.8"
CONE PENETROMETER CONTRACTOR CORP of ENGINEERS ES REPRESENTATIVE MS DM



(NOT TO SCALE)

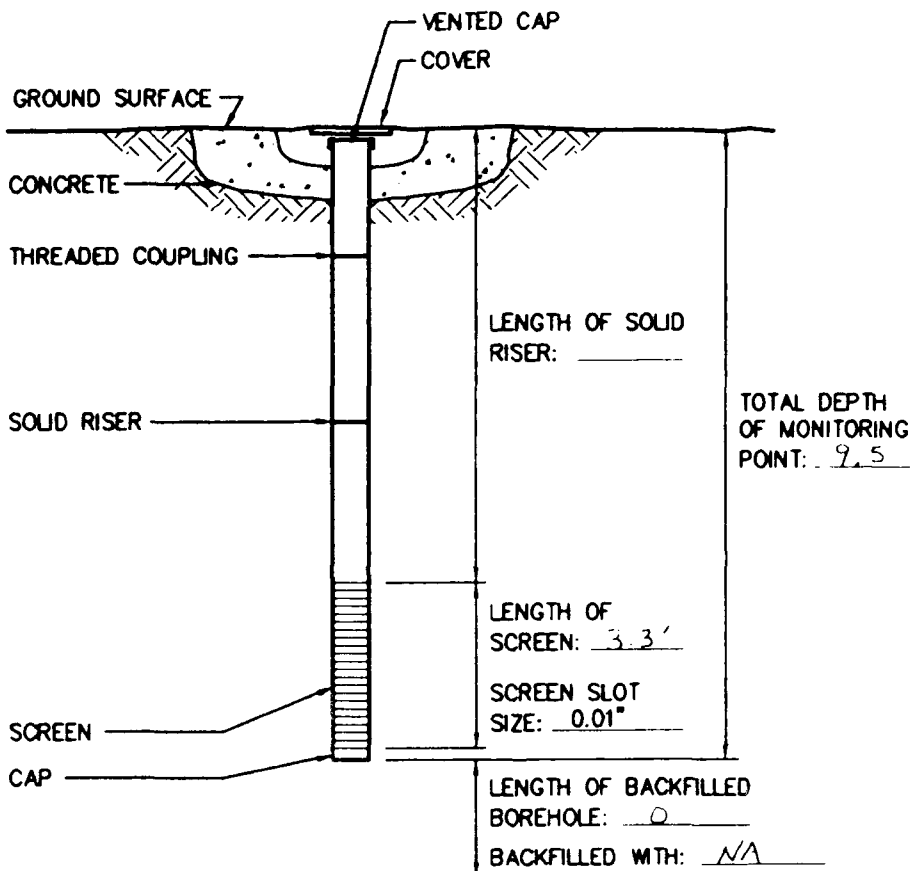
STABILIZED WATER LEVEL 11.04 FEET
BELOW DATUM.

TOTAL MONITORING POINT DEPTH 20.52 FEET
BELOW DATUM.

GROUND SURFACE _____ FEET

MONITORING POINT INSTALLATION RECORD

JOB NAME MADISON ANGB MONITORING POINT NUMBER SP745
 JOB NUMBER 722450.09020 INSTALLATION DATE 7/14/14 LOCATION SCE POL
 DATUM ELEVATION _____ GROUND SURFACE ELEVATION _____
 DATUM FOR WATER LEVEL MEASUREMENT _____
 SCREEN DIAMETER & MATERIAL 0.5" ID PVC SLOT SIZE 0.012"
 RISER DIAMETER & MATERIAL 1.5 ID PVC BOREHOLE DIAMETER 1.8"
 CONE PENETROMETER CONTRACTOR CORP of ENGINEERS ES REPRESENTATIVE MS DM

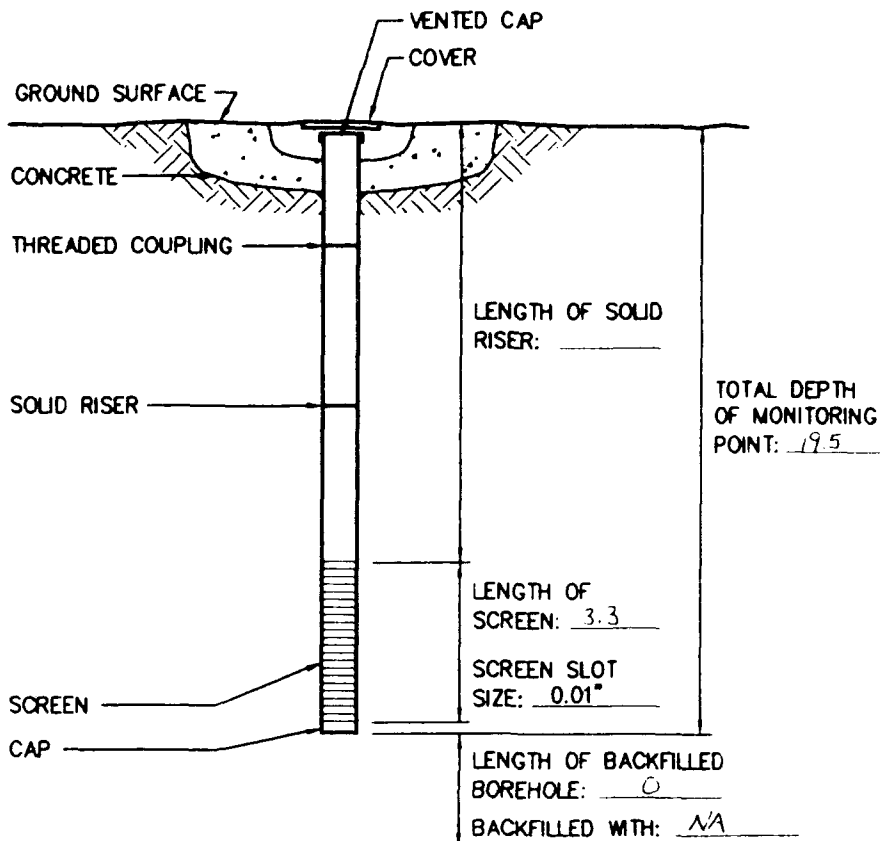


(NOT TO SCALE)

STABILIZED WATER LEVEL 7.97 FEET
 BELOW DATUM.
 TOTAL MONITORING POINT DEPTH 8.15 FEET
 BELOW DATUM.
 GROUND SURFACE _____ FEET

MONITORING POINT INSTALLATION RECORD

JOB NAME MADISON ANGB MONITORING POINT NUMBER PI4D
JOB NUMBER 722450.09020 INSTALLATION DATE 9/14/94 LOCATION SJ PCL
DATUM ELEVATION _____ GROUND SURFACE ELEVATION _____
DATUM FOR WATER LEVEL MEASUREMENT _____
SCREEN DIAMETER & MATERIAL 0.5" ID PVC SLOT SIZE 0.010"
RISER DIAMETER & MATERIAL 0.5" ID PVC BOREHOLE DIAMETER 1.8"
CONE PENETROMETER CONTRACTOR CORP of ENGINEERS ES REPRESENTATIVE MS DM



(NOT TO SCALE)

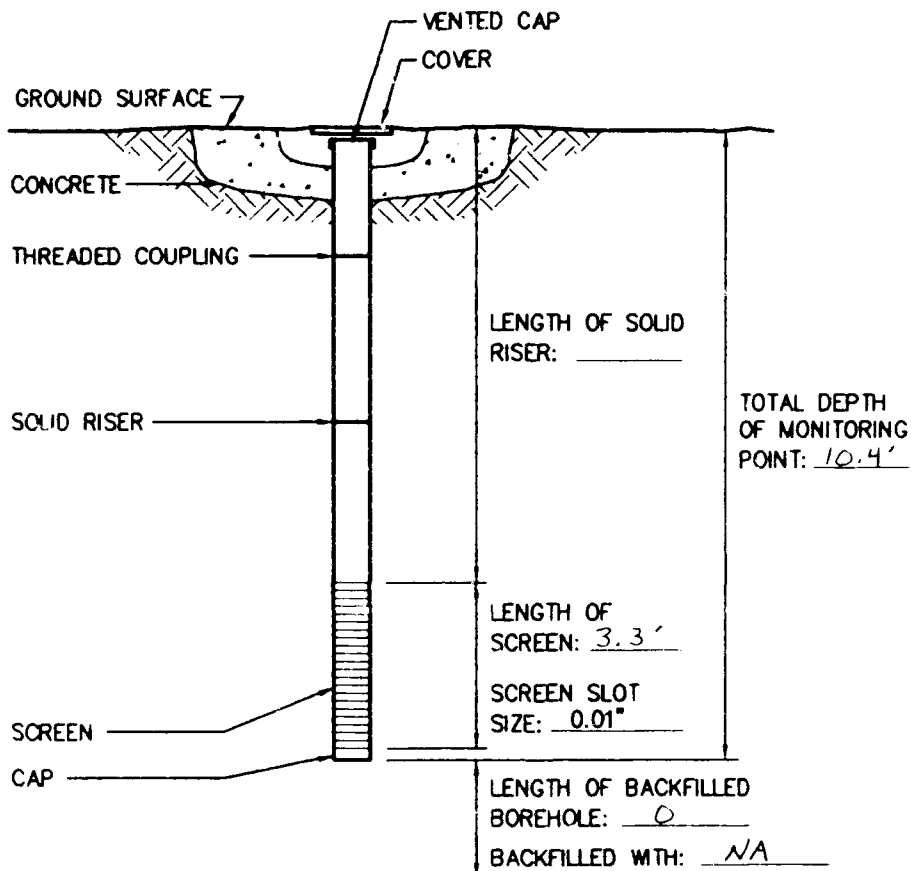
STABILIZED WATER LEVEL 7.97 FEET
BELOW DATUM.

TOTAL MONITORING POINT DEPTH 18.15 FEET
BELOW DATUM.

GROUND SURFACE _____ FEET

MONITORING POINT INSTALLATION RECORD

JOB NAME MADISON ANGB MONITORING POINT NUMBER CPT55
 JOB NUMBER 722450.09020 INSTALLATION DATE 9/14/94 LOCATION SE of POL
 DATUM ELEVATION _____ GROUND SURFACE ELEVATION _____
 DATUM FOR WATER LEVEL MEASUREMENT _____
 SCREEN DIAMETER & MATERIAL 0.5" ID PVC SLOT SIZE 0.410"
 RISER DIAMETER & MATERIAL 0.5" ID PVC BOREHOLE DIAMETER 1.8"
 CONE PENETROMETER CONTRACTOR CORP of ENGINEERS ES REPRESENTATIVE MS DM



(NOT TO SCALE)

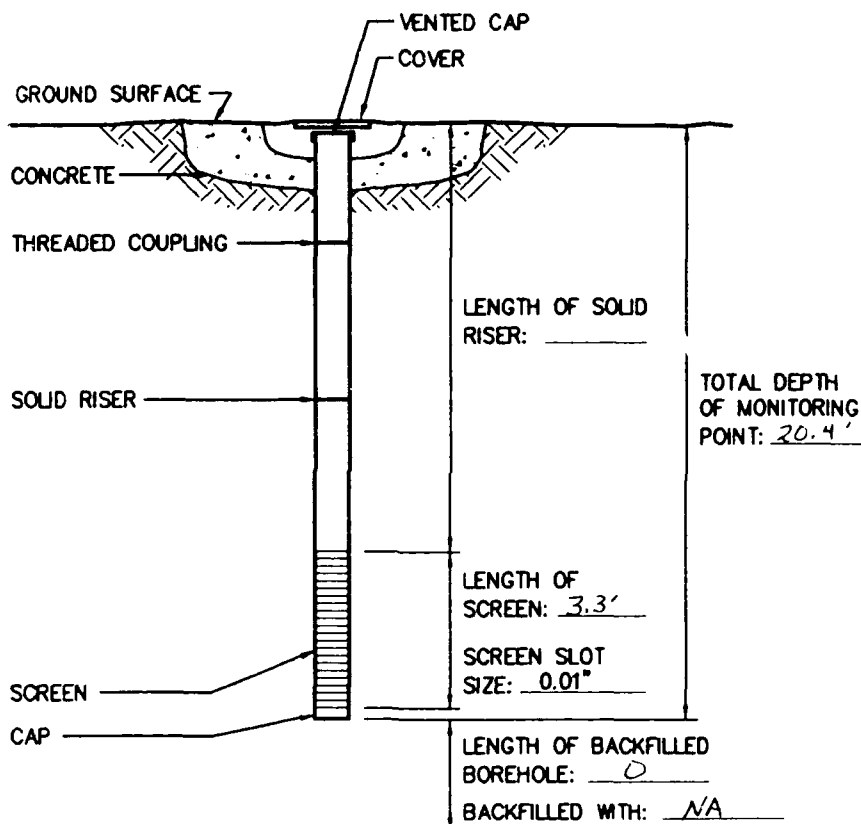
STABILIZED WATER LEVEL 8.28 FEET BELOW DATUM.

TOTAL MONITORING POINT DEPTH 10.07 FEET BELOW DATUM.

GROUND SURFACE _____ FEET

MONITORING POINT INSTALLATION RECORD

JOB NAME MADISON ANGB MONITORING POINT NUMBER CPT5D
JOB NUMBER 722450.09020 INSTALLATION DATE 9/14/94 LOCATION SE of POL
DATUM ELEVATION _____ GROUND SURFACE ELEVATION _____
DATUM FOR WATER LEVEL MEASUREMENT _____
SCREEN DIAMETER & MATERIAL 0.5" ID PVC SLOT SIZE 0.010"
RISER DIAMETER & MATERIAL 0.5" ID PVC BOREHOLE DIAMETER 1.8"
CONE PENETROMETER CONTRACTOR CORP of ENGINEERS ES REPRESENTATIVE MS DM



(NOT TO SCALE)

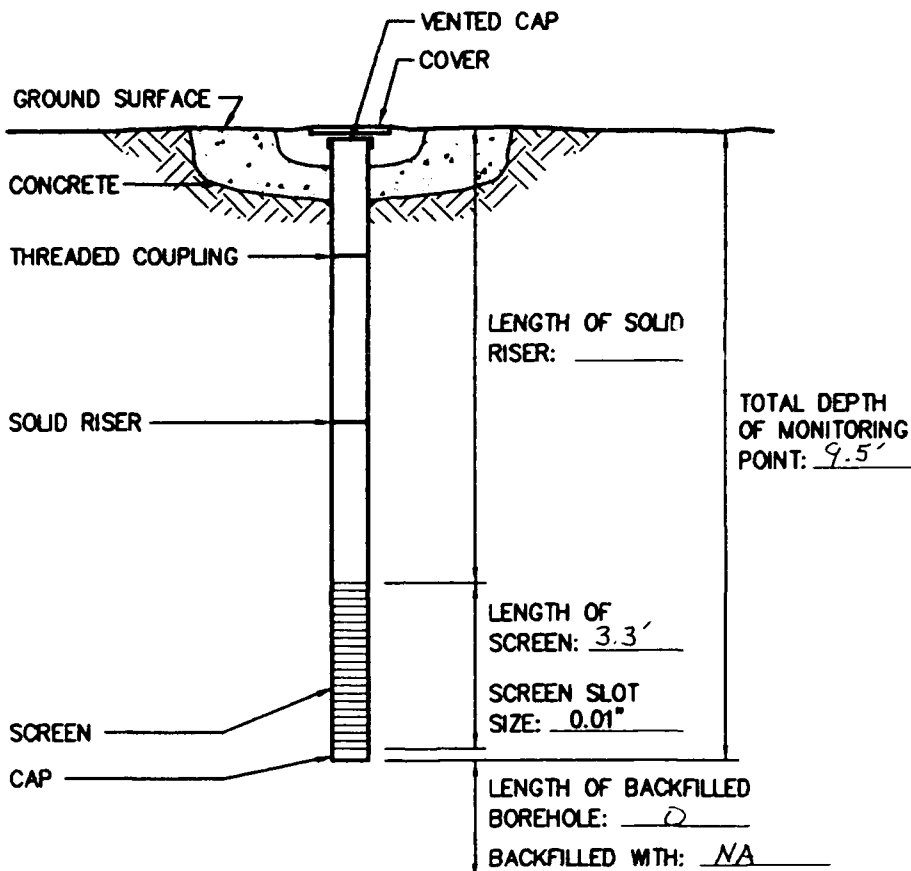
STABILIZED WATER LEVEL 8.24 FEET
BELOW DATUM.

TOTAL MONITORING POINT DEPTH 20.24 FEET
BELOW DATUM.

GROUND SURFACE _____ FEET

MONITORING POINT INSTALLATION RECORD

JOB NAME MADISON ANG8 MONITORING POINT NUMBER LPT155
JOB NUMBER 722450.09020 INSTALLATION DATE 9/14/94 LOCATION S of Bldg 414
DATUM ELEVATION _____ GROUND SURFACE ELEVATION _____
DATUM FOR WATER LEVEL MEASUREMENT _____
SCREEN DIAMETER & MATERIAL 0.5" ID PVC SLOT SIZE 0.010"
RISER DIAMETER & MATERIAL 0.5" ID PVC BOREHOLE DIAMETER 1.8"
CONE PENETROMETER CONTRACTOR CORP of ENGINEERS ES REPRESENTATIVE MS DM



(NOT TO SCALE)

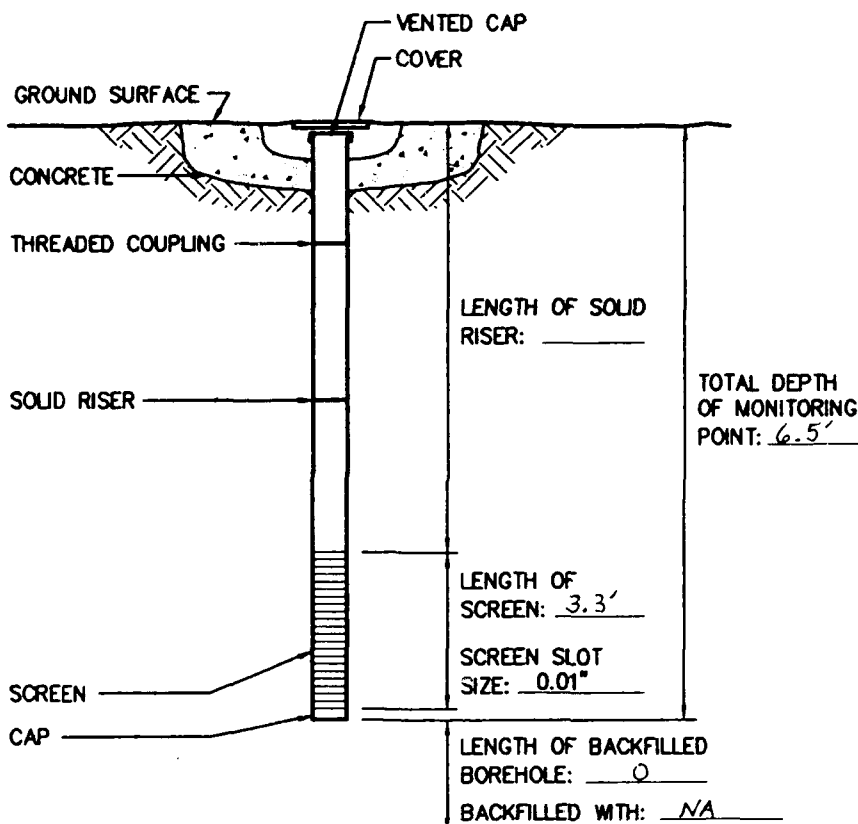
STABILIZED WATER LEVEL 5.54 FEET
BELOW DATUM.

TOTAL MONITORING POINT DEPTH 9.02 FEET
BELOW DATUM.

GROUND SURFACE _____ FEET

MONITORING POINT INSTALLATION RECORD

JOB NAME MADISON ANGB MONITORING POINT NUMBER CPT175
JOB NUMBER 722450.09020 INSTALLATION DATE 9/14/94 LOCATION SW of Bldg 412
DATUM ELEVATION _____ GROUND SURFACE ELEVATION _____
DATUM FOR WATER LEVEL MEASUREMENT _____
SCREEN DIAMETER & MATERIAL 0.5" ID PVC SLOT SIZE 1/8" 0.010"
RISER DIAMETER & MATERIAL 0.5" ID PVC BOREHOLE DIAMETER 1.8"
CONE PENETROMETER CONTRACTOR CORP of ENGINEERS ES REPRESENTATIVE MS DM



(NOT TO SCALE)

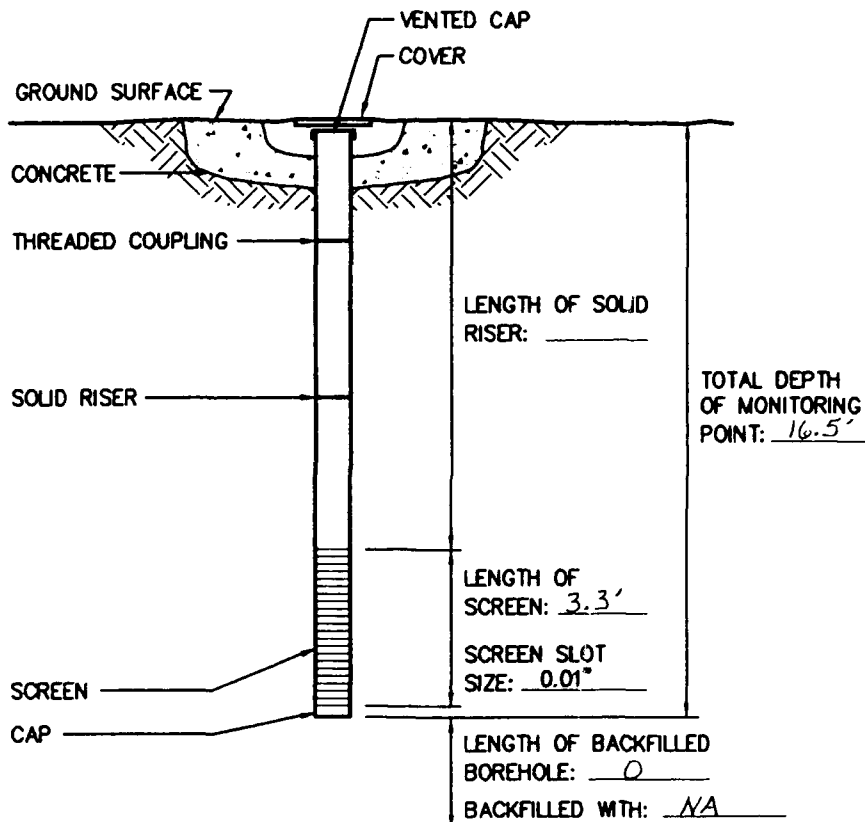
STABILIZED WATER LEVEL 3.15 FEET
BELOW DATUM.

TOTAL MONITORING POINT DEPTH 4.12 FEET
BELOW DATUM.

GROUND SURFACE _____ FEET

MONITORING POINT INSTALLATION RECORD

JOB NAME MADISON ANGB MONITORING POINT NUMBER CPT17D
JOB NUMBER 722450.09020 INSTALLATION DATE 9/14/94 LOCATION SW of Bldg 412
DATUM ELEVATION _____ GROUND SURFACE ELEVATION _____
DATUM FOR WATER LEVEL MEASUREMENT _____
SCREEN DIAMETER & MATERIAL 0.5" ID PVC SLOT SIZE 0.010"
RISER DIAMETER & MATERIAL 0.5" ID PVC BOREHOLE DIAMETER 1.8"
CONE PENETROMETER CONTRACTOR CORP of ENGINEERS ES REPRESENTATIVE MS-DM



(NOT TO SCALE)

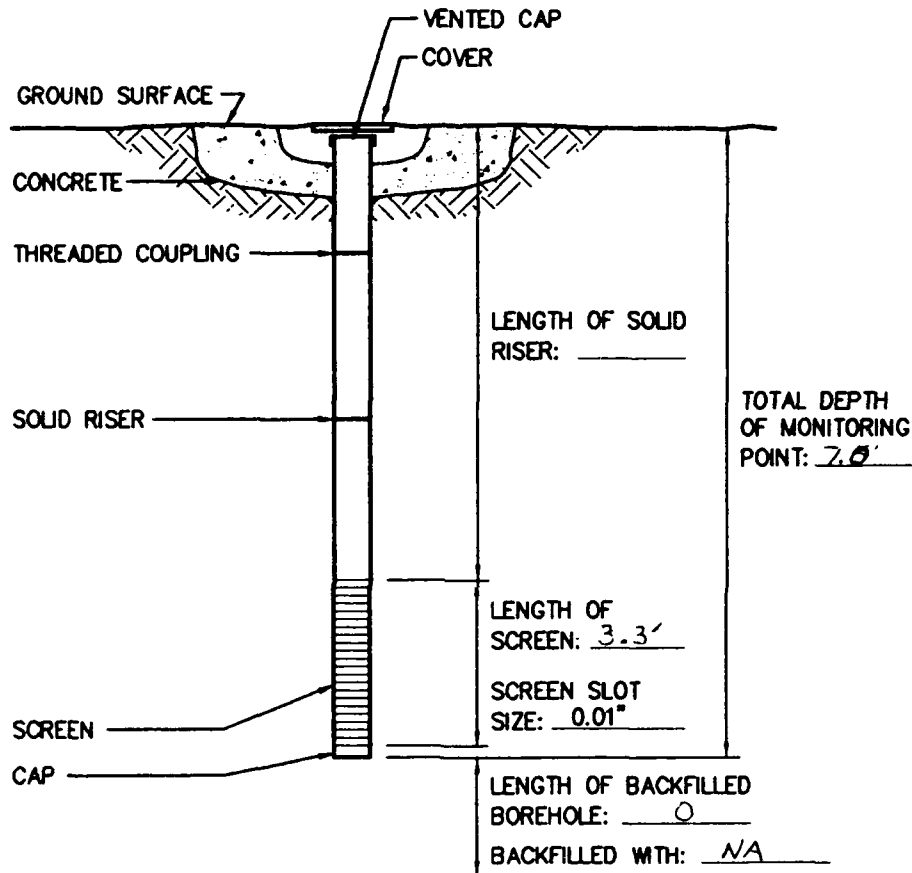
STABILIZED WATER LEVEL 3.46 FEET
BELOW DATUM.

TOTAL MONITORING POINT DEPTH 16.64 FEET
BELOW DATUM.

GROUND SURFACE _____ FEET

MONITORING POINT INSTALLATION RECORD

JOB NAME MADISON ANGB MONITORING POINT NUMBER CPT185
JOB NUMBER 722450.09020 INSTALLATION DATE 9/14/94 LOCATION Bkgd - NW of Bldg 414
addition
DATUM ELEVATION _____ GROUND SURFACE ELEVATION _____
DATUM FOR WATER LEVEL MEASUREMENT _____
SCREEN DIAMETER & MATERIAL 0.5" ID PVC SLOT SIZE 0.010"
RISER DIAMETER & MATERIAL 0.5" ID PVC BOREHOLE DIAMETER 1.8"
CONE PENETROMETER CONTRACTOR CORP of ENGINEERS ES REPRESENTATIVE MS DM



(NOT TO SCALE)

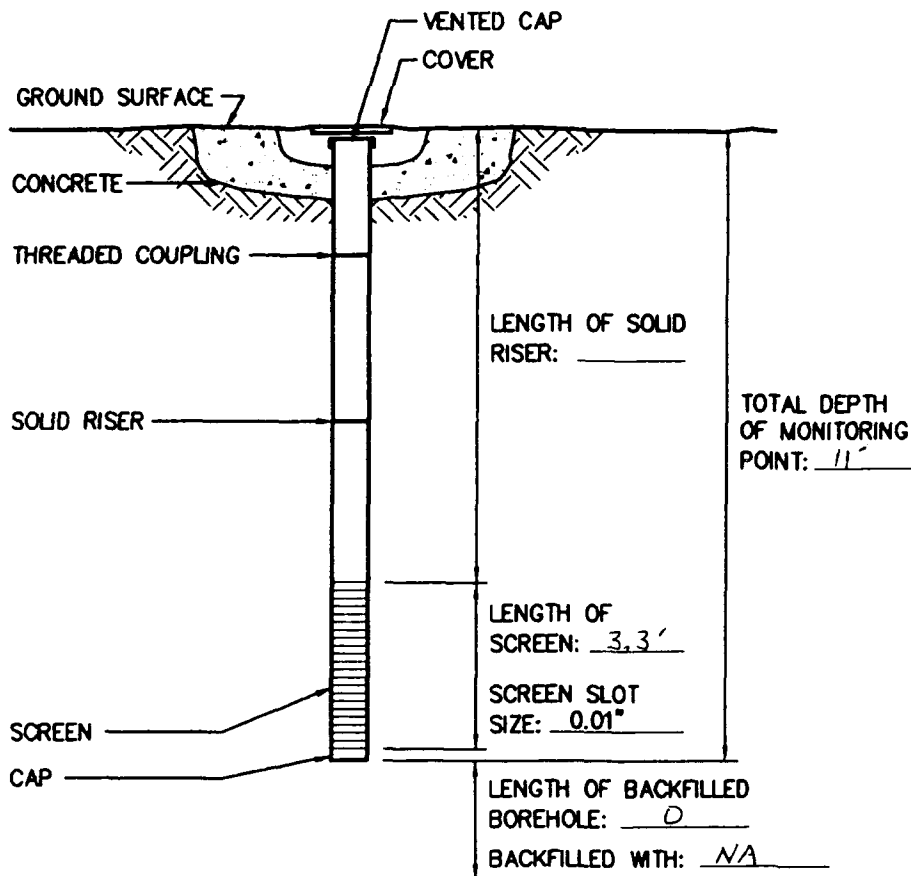
STABILIZED WATER LEVEL 3.90 FEET
BELOW DATUM.

TOTAL MONITORING POINT DEPTH 6.62 FEET
BELOW DATUM.

GROUND SURFACE _____ FEET

MONITORING POINT INSTALLATION RECORD

JOB NAME MADISON ANGB MONITORING POINT NUMBER LFT 195
JOB NUMBER 722450.09020 INSTALLATION DATE 9/15/94 LOCATION SW corner of Bldg 462
DATUM ELEVATION _____ GROUND SURFACE ELEVATION _____
DATUM FOR WATER LEVEL MEASUREMENT _____
SCREEN DIAMETER & MATERIAL 0.5" ID PVC SLOT SIZE 0.010"
RISER DIAMETER & MATERIAL 0.5" ID PVC BOREHOLE DIAMETER 1.8"
CONE PENETROMETER CONTRACTOR CORP of ENGINEERS ES REPRESENTATIVE MS DM



(NOT TO SCALE)

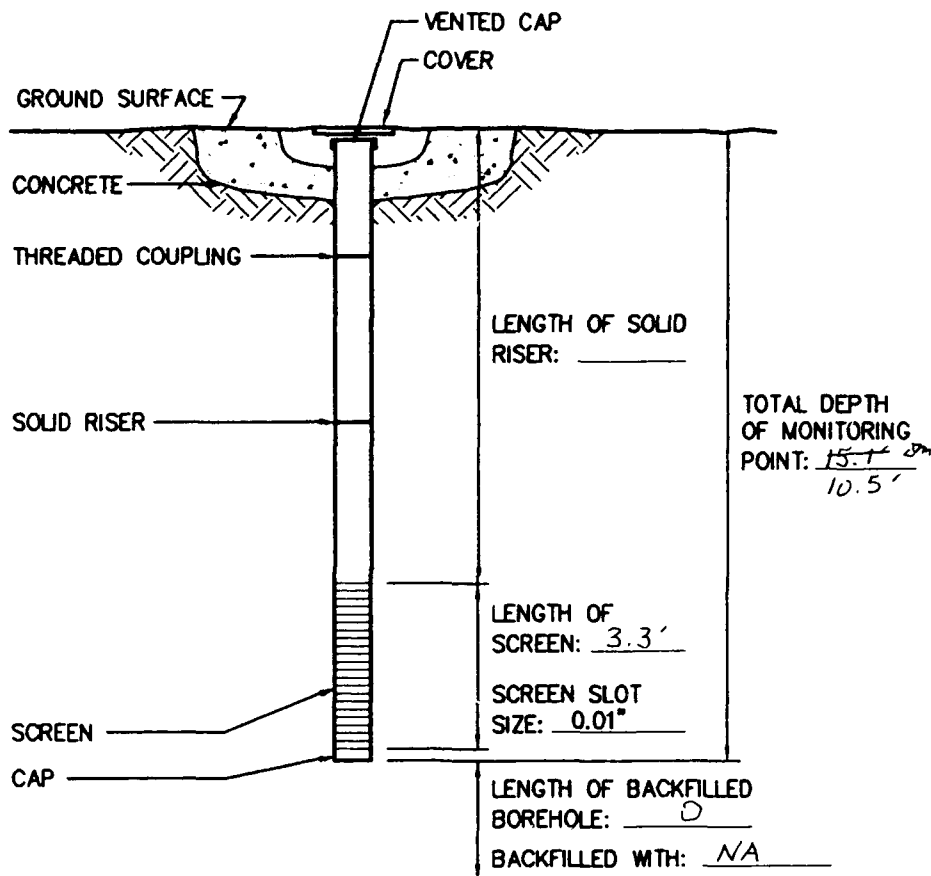
STABILIZED WATER LEVEL 8.48 FEET
BELOW DATUM.

TOTAL MONITORING POINT DEPTH 10.88 FEET
BELOW DATUM.

GROUND SURFACE _____ FEET

MONITORING POINT INSTALLATION RECORD

JOB NAME MADISON ANGB MONITORING POINT NUMBER CPT205
 JOB NUMBER 722450.09020 INSTALLATION DATE 9/15/94 LOCATION E of Bldg 415
 DATUM ELEVATION _____ GROUND SURFACE ELEVATION _____
 DATUM FOR WATER LEVEL MEASUREMENT _____
 SCREEN DIAMETER & MATERIAL 0.5" ID PVC SLOT SIZE 0.010"
 RISER DIAMETER & MATERIAL 0.5" ID PVC BOREHOLE DIAMETER 1.8"
 CONE PENETROMETER CONTRACTOR CORP of ENGINEERS ES REPRESENTATIVE MS-DM



(NOT TO SCALE)

STABILIZED WATER LEVEL 6.982 FEET
 BELOW DATUM.
 TOTAL MONITORING POINT DEPTH 16.05 FEET
 BELOW DATUM. 9.98
 GROUND SURFACE _____ FEET

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Stat. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County	Original Well Owner (If Known)	
	DANE	AS BELOW	
SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N. R. 10 (If applicable)	☒ E ☐ W	Present Well Owner	
Gov't Lot	Grid Number	WISCONSIN AIR NATIONAL GUARD	
Grid Location		Street or Route	
ft. ☐ N. ☐ S., ft. ☐ E. ☐ W.		3110 MITCHELL ST.	
Civil Town Name		City, State, Zip Code	
		MADISON, WI 53704	
Street Address of Well		Facility Well No. and/or Name (If Applicable)	
3110 MITCHELL ST.		CPT1 - Fiber	
City, Village		Reason For Abandonment	
MADISON		TERMINATION OF BORING	
		Date of Abandonment	
		9/12/94	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On		(4) Depth to Water (Feet)	
(Date) 9/12/94		110	
☐ Monitoring Well	Construction Report Available?	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Water Well	☐ Yes ☒ No	Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Drillhole		Screen Removed? ☐ Yes ☐ No ☒ Not Applicable	
☒ Borehole		Casing Left in Place? ☐ Yes ☒ No	
Construction Type:		If No, Explain THIS IS A BORING, NOT A WELL	
☐ Drilled		Was Casing Cut Off Below Surface? ☐ Yes ☒ No	
☐ Driven (Sandpoint)		Did Sealing Material Rise to Surface? ☒ Yes ☐ No	
☒ Other (Specify) DRIVEN W/ CONE PENETROMETER		Did Material Settle After 24 Hours? ☐ Yes ☒ No	
Formation Type:		If Yes, Was Hole Retopped? ☐ Yes ☐ No	
☒ Unconsolidated Formation	☐ Bedrock	(5) Required Method of Placing Sealing Material	
Total Well Depth (ft.) 25.1	Casing Diameter (ins.) N/A	☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped	
(From ground surface)		☐ Dump Bailer ☐ Other (Explain)	
Casing Depth (ft.) N/A		(6) Sealing Materials	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown	Feet	For monitoring wells and monitoring well boreholes only	
If Yes, To What Depth?		☒ Neat Cement Grout	
		☐ Sand-Cement (Concrete) Grout	
		☐ Concrete	
		☐ Clay-Sand Slurry	
		☐ Bentonite-Sand Slurry	
		☐ Chipped Bentonite	
		☐ Bentonite Pellets	
		☐ Granular Bentonite	
		☐ Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	25.1		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work	
Matthew A. Swanson / Parsons Engineering Science, Inc.	
Signature of Person Doing Work	Date Signed
<i>Matthew A. Swanson</i>	1/9/95
Street or Route	Telephone Number
1700 Broadway, Ste. 900	(303) 831-8100
City, State, Zip Code	
Denver, CO 80226	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>DANE</u>	Original Well Owner (If Known) <u>AS BELOW</u>	
<u>SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N. R. 10</u> (If applicable)		Present Well Owner <u>WISCONSIN AIR NATIONAL GUARD</u>	
Gov't Lot _____ Grid Number _____		Street or Route <u>3110 MITCHELL ST.</u>	
Grid Location _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.		City, State, Zip Code <u>MADISON, WI 53704</u>	
Civil Town Name _____		Facility Well No. and/or Name (If Applicable) <u>CPT 2 - Fiber</u> WI Unique Well No. _____	
Street Address of Well <u>3110 MITCHELL ST.</u>		Reason For Abandonment <u>TERMINATION OF BORING</u>	
City, Village <u>MADISON</u>		Date of Abandonment <u>9/12/91</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/12/91</u>		(4) Depth to Water (Feet) <u>7.5</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole	Construction Report Available? ☐ Yes ☒ No	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>THIS IS A BORING, NOT A WELL</u>	
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CONE PENETROMETER</u>		Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		(5) Required Method of Placing Sealing Material ☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain) _____	
Total Well Depth (ft.) <u>25.5</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface)		(6) Sealing Materials ☒ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite	
Casing Depth (ft.) <u>N/A</u>		For monitoring wells and monitoring well boreholes only ☐ Bentonite Pellets ☐ Granular Bentonite ☐ Bentonite - Cement Grout	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet			

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Portland Cement Grout</u>	<u>Surface</u>	<u>25.5</u>		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work <u>Matthew A. Swenson / Parsons Engineering Science, Inc.</u>	
Signature of Person Doing Work <u>Matthew A. Swenson</u>	Date Signed <u>1/9/95</u>
Street or Route <u>1700 Broadway, Ste. 900</u>	Telephone Number <u>(303) 831-8100</u>
City, State, Zip Code <u>Denver, CO 80226</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>DANE</u>	Original Well Owner (If Known) <u>AS BELOW</u>	
<u>SE 1/4 of NW 1/4 of Sec. 29</u> ; T. <u>8</u> N.R. <u>10</u> (If applicable)		Present Well Owner <u>WISCONSIN AIR NATIONAL GUARD</u>	
Gov't Lot _____ Grid Number _____		Street or Route <u>3110 MITCHELL ST.</u>	
Grid Location _____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.		City, State, Zip Code <u>MADISON, WI 53704</u>	
Civil Town Name _____		Facility Well No. and/or Name (If Applicable) <u>CPT2 - Soil Sample #1</u>	WI Unique Well No. _____
Street Address of Well <u>3110 MITCHELL ST.</u>		Reason For Abandonment <u>TERMINATION OF BORING</u>	
City, Village <u>MADISON</u>		Date of Abandonment <u>9/15/94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/15/94</u>		(4) Depth to Water (Feet) <u>7.5</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole	Construction Report Available? ☐ Yes ☒ No	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>THIS IS A BORING, NOT A WELL</u>	
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CONE PENETROMETER</u>		Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		(5) Required Method of Placing Sealing Material	
Total Well Depth (ft.) <u>7.5</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface)		☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain) _____	
Casing Depth (ft.) <u>N/A</u>		(6) Sealing Materials	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet		For monitoring wells and monitoring well boreholes only ☒ Near Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Portland Cement Grout</u>	<u>Surface</u>	<u>7.5</u>		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work <u>Matthew A. Swenson / Parsons Engineering Science, Inc.</u>	
Signature of Person Doing Work <u>Matthew A. Swenson</u>	Date Signed <u>11/9/95</u>
Street or Route <u>100 Broadway, Ste. 900</u>	Telephone Number <u>(303) 831-8100</u>
City, State, Zip Code <u>Denver CO 80226</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>DANE</u>	Original Well Owner (If Known) <u>AS BELOW</u>	
SE 1/4 of NW 1/4 of Sec. 29 ; T. 8 N.R. 10 (If applicable)		Present Well Owner <u>WISCONSIN AIR NATIONAL GUARD</u>	
Gov't Lot	Grid Number	Street or Route <u>3110 MITCHELL ST.</u>	
Grid Location ft. ☐ N. ☐ S., ft. ☐ E. ☐ W.		City, State, Zip Code <u>MADISON, WI 53704</u>	
Civil Town Name		Facility Well No. and/or Name (If Applicable)	WI Unique Well No.
Street Address of Well <u>3110 MITCHELL ST.</u>		<u>CPT2-Soil Sample #2</u>	
City, Village <u>MADISON</u>		Reason For Abandonment <u>TERMINATION OF BORING</u>	
		Date of Abandonment <u>9/15/94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet) <u>7.5</u>	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/15/94</u>		☐ Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable ☐ Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable ☐ Screen Removed? ☐ Yes ☐ No ☒ Not Applicable ☐ Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>THIS IS A BORING, NOT A WELL</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole	Construction Report Available? ☐ Yes ☒ No	Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CONE PENETRATOR</u>		(5) Required Method of Placing Sealing Material ☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain)	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		(6) Sealing Materials For monitoring wells and monitoring well boreholes only ☒ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite	
Total Well Depth (ft.) <u>7.5</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface) Casing Depth (ft.) <u>N/A</u> Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet		☐ Bentonite Pellets ☐ Granular Bentonite ☐ Bentonite - Cement Grout	

Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Portland Cement Grout</u>	<u>Surface</u>	<u>7.5</u>		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work <u>Matthew A. Swenson / Parsons Engineering Science, Inc.</u>	
Signature of Person Doing Work <u>Matthew A. Swenson</u>	Date Signed <u>1/9/95</u>
Street or Route <u>100 Broadway, Ste. 900</u>	Telephone Number <u>(303) 831-8100</u>
City, State, Zip Code <u>Denver CO 80226</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>DANE</u>	Original Well Owner (If Known) <u>AS BELOW</u>	
<u>SE 1/4 of NW 1/4 of Sec. 29</u> : T. <u>8</u> N. R. <u>10</u> (If applicable)	☒ E ☐ W	Present Well Owner <u>WISCONSIN AIR NATIONAL GUARD</u>	
Gov't Lot	Grid Number	Street or Route <u>3110 MITCHELL ST.</u>	
Grid Location ft. ☐ N. ☐ S. ☐ E. ☐ W.		City, State, Zip Code <u>MADISON, WI 53704</u>	
Civil Town Name		Facility Well No. and/or Name (If Applicable) WI Unique Well No. <u>CPT2 - Soil Sample #3</u>	
Street Address of Well <u>3110 MITCHELL ST.</u>		Reason For Abandonment <u>TERMINATION OF BORING</u>	
City, Village <u>MADISON</u>		Date of Abandonment <u>9/15/94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet) <u>7.5</u>	
Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/15/94</u>		Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>THIS IS A BORING, NOT A WELL</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole	Construction Report Available? ☐ Yes ☒ No	Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CONE PENETROMETER</u>		(5) Required Method of Placing Sealing Material ☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain)	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		(6) Sealing Materials ☒ Neat Cement Grout For monitoring wells and monitoring well boreholes only ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite	
Total Well Depth (ft.) <u>7.5</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface) Casing Depth (ft.) <u>N/A</u> Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet		☐ Bentonite Pellets ☐ Granular Bentonite ☐ Bentonite - Cement Grout	

Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	7.5		

8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work <u>Matthew A. Swanson / Parsons Engineering Science, Inc.</u>	
Signature of Person Doing Work <u>Matthew A. Swanson</u>	Date Signed <u>1/9/95</u>
Street or Route <u>1700 Broadway, Ste. 900</u>	Telephone Number <u>(303) 831-8100</u>
City, State, Zip Code <u>Denver, CO 80226</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

Abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>DANE</u>	Original Well Owner (If Known) <u>AS BELOW</u>	
<u>SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N. R. 10</u> (If applicable)		Present Well Owner <u>WISCONSIN AIR NATIONAL GUARD</u>	
Gov't Lot _____ Grid Number _____		Street or Route <u>3110 MITCHELL ST.</u>	
Grid Location _____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.		City, State, Zip Code <u>MADISON, WI 53704</u>	
Civil Town Name _____		Facility Well No. and/or Name (If Applicable) <u>CPT3 - Fiber</u>	
Street Address of Well <u>3110 MITCHELL ST.</u>		Reason For Abandonment <u>TERMINATION OF BORING</u>	
City, Village <u>MADISON</u>		Date of Abandonment <u>9/13/94</u>	
		WI Unique Well No. _____	

WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet) <u>9.5</u>	
Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/13/94</u>		Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole		Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable	
Construction Report Available? ☐ Yes ☒ No		Screen Removed? ☐ Yes ☐ No ☒ Not Applicable	
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CONE PENETRATOR</u>		Casing Left in Place? ☐ Yes ☒ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		If No, Explain <u>THIS IS A BORING, NOT A WELL</u>	
Total Well Depth (ft.) <u>15.2</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface)		Was Casing Cut Off Below Surface? ☐ Yes ☒ No	
Casing Depth (ft.) <u>N/A</u>		Did Sealing Material Rise to Surface? ☒ Yes ☐ No	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet		Did Material Settle After 24 Hours? ☐ Yes ☒ No	
		If Yes, Was Hole Retopped? ☐ Yes ☐ No	
		(5) Required Method of Placing Sealing Material	
		☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped	
		☐ Dump Bailer ☐ Other (Explain) _____	
		(6) Sealing Materials For monitoring wells and monitoring well boreholes only	
		☒ Neat Cement Grout	
		☐ Sand-Cement (Concrete) Grout	
		☐ Concrete	
		☐ Clay-Sand Slurry	
		☐ Bentonite-Sand Slurry	
		☐ Chipped Bentonite	
		☐ Bentonite Pellets	
		☐ Granular Bentonite	
		☐ Bentonite - Cement Grout	

Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	15.2		

Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work <u>Matthew A. Swenson / Parsons Engineering Science, Inc.</u>	
Signature of Person Doing Work <u>Matthew A. Swenson</u>	Date Signed <u>1/9/95</u>
Street or Route <u>1700 Broadway, Ste. 900</u>	Telephone Number <u>(303) 831-8100</u>
City, State, Zip Code <u>Denver, CO 80226</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Code, whichever is applicable. Also, see instructions on back.

GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>DANE</u>	Original Well Owner (If Known) <u>AS BELOW</u>	
(If applicable) <u>SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N.R. 10</u> ☒ E ☐ W		Present Well Owner <u>WISCONSIN AIR NATIONAL GUARD</u>	
Gov't Lot _____ Grid Number _____		Street or Route <u>3110 MITCHELL ST.</u>	
Grid Location _____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.		City, State, Zip Code <u>MADISON WI 53704</u>	
Civil Town Name _____		Facility Well No. and/or Name (If Applicable) WI Unique Well No. <u>CPT3- Hydropunch</u> _____	
Street Address of Well <u>3110 MITCHELL ST.</u>		Reason For Abandonment <u>TERMINATION OF BORING</u>	
City, Village <u>MADISON</u>		Date of Abandonment <u>9/15/94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet) <u>8.5</u>	
Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/15/94</u>		Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☐ No If No, Explain <u>THIS IS A BORING, NOT A WELL</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole		Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CONE PENETROMETER</u>		(5) Required Method of Placing Sealing Material	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain)	
Total Well Depth (ft.) <u>12.5</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface)		(6) Sealing Materials	
Casing Depth (ft.) <u>N/A</u>		For monitoring wells and monitoring well boreholes only ☒ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet		☐ Bentonite Pellets ☐ Granular Bentonite ☐ Bentonite - Cement Grout	

Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Hand Cement Grout	Surface	12.5		

Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work <u>Matthew A. Swanson / Parsons Engineering Science, Inc.</u>		(10) FOR DNR OR COUNTY USE ONLY	
Signature of Person Doing Work <u>Matthew A. Swanson</u>	Date Signed <u>1/9/95</u>	Date Received/Inspected	District/County
Street or Route <u>100 Broadway, Ste. 900</u>	Telephone Number <u>(303) 831-8100</u>	Reviewer/Inspector	
City, State, Zip Code <u>DENVER CO 80226</u>		Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>DANE</u>	Original Well Owner (If Known) <u>AS BELOW</u>	
<u>SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N. R. 10</u> (If applicable)		Present Well Owner <u>WISCONSIN AIR NATIONAL GUARD</u>	
Gov't Lot	Grid Number	Street or Route <u>3110 MITCHELL ST.</u>	
Grid Location ft. ☐ N. ☐ S. ☐ E. ☐ W.		City, State, Zip Code <u>MADISON, WI 53704</u>	
Civil Town Name		Facility Well No. and/or Name (If Applicable)	WI Unique Well No.
Street Address of Well <u>3110 MITCHELL ST.</u>		<u>CPT4 - Fiber</u>	
City, Village <u>MADISON</u>		Reason For Abandonment <u>TERMINATION OF BORING</u>	
		Date of Abandonment <u>9/13/94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/13/94</u>		(4) Depth to Water (Feet) <u>8</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole	Construction Report Available? ☐ Yes ☒ No	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>THIS IS A BORING, NOT A WELL</u>	
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CONE PENETROMETER</u>		Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock Total Well Depth (ft.) <u>15.1</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface) Casing Depth (ft.) <u>N/A</u> Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet		(5) Required Method of Placing Sealing Material ☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain) _____	
		(6) Sealing Materials ☒ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite For monitoring wells and monitoring well boreholes only: ☐ Bentonite Pellets ☐ Granular Bentonite ☐ Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	15.1		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work <u>Matthew A. Swenson / Parsons Engineering Science, Inc.</u> Signature of Person Doing Work <u>Matthew A. Swenson</u> Date Signed <u>1/9/95</u> Street or Route <u>1700 Broadway, Ste. 900</u> Telephone Number <u>(303) 831-8100</u> City, State, Zip Code <u>Denver, CO 80226</u>		(10) FOR DNR OR COUNTY USE ONLY Date Received/Inspected _____ District/County _____ Reviewer/Inspector _____ Follow-up Necessary _____	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County	Original Well Owner (If Known)	
	DANE	AS BELOW	
SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N. R. 10 (If applicable)	☒ E ☐ W	Present Well Owner	
Gov't Lot	Grid Number	WISCONSIN AIR NATIONAL GUARD	
Grid Location		Street or Route	
ft. ☐ N. ☐ S. ft. ☐ E. ☐ W.		3110 MITCHELL ST.	
Civil Town Name		City, State, Zip Code	
		MADISON, WI 53704	
Street Address of Well		Facility Well No. and/or Name (If Applicable)	WI Unique Well No.
3110 MITCHELL ST.		CPT5-Fiber	
City, Village		Reason For Abandonment	
MADISON		TERMINATION OF BORING	
		Date of Abandonment	
		9/13/94	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On		(4) Depth to Water (Feet)	
(Date) 9/13/94		8.3	
☐ Monitoring Well	Construction Report Available?	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Water Well	☐ Yes ☒ No	Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Drillhole		Screen Removed? ☐ Yes ☐ No ☒ Not Applicable	
☒ Borehole		Casing Left in Place? ☐ Yes ☒ No	
Construction Type:		If No, Explain THIS IS A BORING, NOT A WELL	
☐ Drilled	☐ Driven (Sandpoint)	Was Casing Cut Off Below Surface? ☐ Yes ☒ No	
☒ Other (Specify) DRIVEN W/ CONE PENETROMETER	☐ Dug	Did Sealing Material Rise to Surface? ☒ Yes ☐ No	
Formation Type:		Did Material Settle After 24 Hours? ☐ Yes ☒ No	
☒ Unconsolidated Formation	☐ Bedrock	If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Total Well Depth (ft.) 15.0	Casing Diameter (ins.) N/A	(5) Required Method of Placing Sealing Material	
(From ground surface)		☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped	
Casing Depth (ft.) N/A		☐ Dump Bailer ☐ Other (Explain)	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown	Feet	(6) Sealing Materials	
If Yes, To What Depth?		☒ Neat Cement Grout	
		☐ Sand-Cement (Concrete) Grout	
		☐ Concrete	
		☐ Clay-Sand Slurry	
		☐ Bentonite-Sand Slurry	
		☐ Chipped Bentonite	
		For monitoring wells and monitoring well boreholes only	
		☐ Bentonite Pellets	
		☐ Granular Bentonite	
		☐ Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	15.0		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work	
Matthew A. Swenson / Parsons Engineering Science, Inc.	
Signature of Person Doing Work	Date Signed
<i>Matthew A. Swenson</i>	1/9/95
Street or Route	Telephone Number
100 Broadway, Ste. 900	(303) 831-8100
City, State, Zip Code	
Denver, CO 80226	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>DANE</u>	Original Well Owner (If Known) <u>AS BELOW</u>	
<u>SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N. R. 10</u> (If applicable)		Present Well Owner <u>WISCONSIN AIR NATIONAL GUARD</u>	
Gov't Lot	Grid Number	Street or Route <u>3110 MITCHELL ST.</u>	
Grid Location ft. ☐ N. ☐ S., ☐ E. ☐ W.		City, State, Zip Code <u>MADISON, WI 53704</u>	
Civil Town Name		Facility Well No. and/or Name (If Applicable)	WI Unique Well No.
Street Address of Well <u>3110 MITCHELL ST.</u>		<u>CPT6- Fiber</u>	
City, Village <u>MADISON</u>		Reason For Abandonment <u>TERMINATION OF BORING</u>	
		Date of Abandonment <u>9/13/94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/13/94</u>		(4) Depth to Water (Feet) <u>7.1</u>	
☐ Monitoring Well	Construction Report Available? ☐ Yes ☒ No	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Water Well		Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Drillhole		Screen Removed? ☐ Yes ☐ No ☒ Not Applicable	
☒ Borehole		Casing Left in Place? ☐ Yes ☒ No	
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CONE PENETROMETER</u>		If No, Explain <u>THIS IS A BORING, NOT A WELL</u>	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		Was Casing Cut Off Below Surface? ☐ Yes ☒ No	
Total Well Depth (ft.) <u>19.7</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface)		Did Sealing Material Rise to Surface? ☒ Yes ☐ No	
Casing Depth (ft.) <u>N/A</u>		Did Material Settle After 24 Hours? ☐ Yes ☒ No	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet		If Yes, Was Hole Retopped? ☐ Yes ☐ No	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Portland Cement Grout</u>	<u>Surface</u>	<u>19.7</u>		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work <u>Matthew A. Swenson / Parsons Engineering Science, Inc.</u>		(10) FOR DNR OR COUNTY USE ONLY	
Signature of Person Doing Work <u>Matthew A. Swenson</u>	Date Signed <u>11/9/95</u>	Date Received/Inspected	District/County
Street or Route <u>1700 Broadway, Ste. 900</u>	Telephone Number <u>(303) 831-8100</u>	Reviewer/Inspector	
City, State, Zip Code <u>Denver, CO 80226</u>		Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>DANE</u>	Original Well Owner (If Known) <u>AS BELOW</u>	
<u>SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N. R. 10</u> ☒ E ☐ W (If applicable)		Present Well Owner <u>WISCONSIN AIR NATIONAL GUARD</u>	
Gov't Lot _____ Grid Number _____		Street or Route <u>3110 MITCHELL ST.</u>	
Grid Location _____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.		City, State, Zip Code <u>MADISON, WI 53704</u>	
Civil Town Name _____		Facility Well No. and/or Name (If Applicable) WI Unique Well No. <u>CPT 7- Fiber</u> _____	
Street Address of Well <u>3110 MITCHELL ST.</u>		Reason For Abandonment <u>TERMINATION OF BORING</u>	
City, Village <u>MADISON</u>		Date of Abandonment <u>9/13/94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/13/94</u>		(4) Depth to Water (Feet) <u>6-8'</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole		Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>THIS IS A BORING, NOT A WELL</u>	
Construction Report Available? ☐ Yes ☒ No		Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CONE PENETROMETER</u>		(5) Required Method of Placing Sealing Material	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain) _____	
Total Well Depth (ft.) <u>16.3</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface)		(6) Sealing Materials	
Casing Depth (ft.) <u>N/A</u>		For monitoring wells and monitoring well boreholes only ☒ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet		☐ Bentonite Pellets ☐ Granular Bentonite ☐ Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	16.3		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work <u>Matthew A. Swanson / Parsons Engineering Science, Inc.</u>	
Signature of Person Doing Work <u>Matthew A. Swanson</u>	Date Signed <u>1/9/95</u>
Street or Route <u>100 Broadway, Ste. 900</u>	Telephone Number <u>(303) 831-8100</u>
City, State, Zip Code <u>Denver, CO 80226</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County	Original Well Owner (If Known)	
SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N. R. 10	DANE	AS BELOW	
(If applicable)		Present Well Owner	
Gov't Lot	Grid Number	WISCONSIN AIR NATIONAL GUARD	
Grid Location		Street or Route	
ft. ☐ N. ☐ S. ft. ☐ E. ☐ W.		3110 MITCHELL ST.	
Civil Town Name		City, State, Zip Code	
		MADISON, WI 53704	
Street Address of Well		Facility Well No. and/or Name (If Applicable)	
3110 MITCHELL ST.		CPT8-Fiber	
City, Village		Reason For Abandonment	
MADISON		TERMINATION OF BORING	
		Date of Abandonment	
		9/13/94	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On		(4) Depth to Water (Feet)	
(Date) 9/13/94		7.8	
☐ Monitoring Well	Construction Report Available?	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Water Well	☐ Yes ☒ No	Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Drillhole		Screen Removed? ☐ Yes ☐ No ☒ Not Applicable	
☒ Borehole		Casing Left in Place? ☐ Yes ☒ No	
Construction Type:		If No, Explain THIS IS A BORING, NOT A WELL	
☐ Drilled		Was Casing Cut Off Below Surface? ☐ Yes ☒ No	
☐ Driven (Sandpoint)		Did Sealing Material Rise to Surface? ☒ Yes ☐ No	
☒ Other (Specify) DRIVEN W/ CONE PENETROMETER		Did Material Settle After 24 Hours? ☐ Yes ☒ No	
Formation Type:		If Yes, Was Hole Retopped? ☐ Yes ☐ No	
☒ Unconsolidated Formation		(5) Required Method of Placing Sealing Material	
☐ Bedrock		☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped	
Total Well Depth (ft.) 19.3	Casing Diameter (ins.) N/A	☐ Dump Bailer ☐ Other (Explain)	
(From ground surface)		(6) Sealing Materials	
Casing Depth (ft.) N/A		☒ Neat Cement Grout	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown		☐ Sand-Cement (Concrete) Grout	
If Yes, To What Depth? Feet		☐ Concrete	
		☐ Clay-Sand Slurry	
		☐ Bentonite-Sand Slurry	
		☐ Chipped Bentonite	

Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	19.3		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work	
Matthew A. Swanson / Parsons Engineering Science, Inc.	
Signature of Person Doing Work	Date Signed
<i>Matthew A. Swanson</i>	1/9/95
Street or Route	Telephone Number
1700 Broadway, Ste. 900	(303) 831-8100
City, State, Zip Code	
Denver, CO 80226	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County	Original Well Owner (If Known)	
	DANE	AS BELOW	
SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N.R. 10 (If applicable)	☒ E ☐ W	Present Well Owner	
Gov't Lot	Grid Number	WISCONSIN AIR NATIONAL GUARD	
Grid Location		Street or Route	
ft. ☐ N. ☐ S., ft. ☐ E. ☐ W.		3110 MITCHELL ST.	
Civil Town Name		City, State, Zip Code	
		MADISON, WI 53704	
Street Address of Well		Facility Well No. and/or Name (If Applicable)	
3110 MITCHELL ST.		CPT 8- Soil Sample #1	
City, Village		Reason For Abandonment	
MADISON		TERMINATION OF BORING	
		Date of Abandonment	
		9/15/94	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On		(4) Depth to Water (Feet)	
(Date)	9/15/94	7.8	
☐ Monitoring Well	Construction Report Available?	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Water Well	☐ Yes ☒ No	Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Drillhole		Screen Removed? ☐ Yes ☐ No ☒ Not Applicable	
☒ Borehole		Casing Left in Place? ☐ Yes ☒ No	
Construction Type:		If No, Explain THIS IS A BORING, NOT A WELL	
☐ Drilled	☐ Driven (Sandpoint)	Was Casing Cut Off Below Surface? ☐ Yes ☒ No	
☒ Other (Specify) DRIVEN W/ CONE PENETROMETER	☐ Dug	Did Sealing Material Rise to Surface? ☒ Yes ☐ No	
Formation Type:		Did Material Settle After 24 Hours? ☐ Yes ☒ No	
☒ Unconsolidated Formation	☐ Bedrock	If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Total Well Depth (ft.) 8.0	Casing Diameter (ins.) N/A	(5) Required Method of Placing Sealing Material	
(From ground surface)		☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped	
Casing Depth (ft.) N/A		☐ Dump Bailer ☐ Other (Explain)	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown	If Yes, To What Depth? Feet	(6) Sealing Materials	
		For monitoring wells and monitoring well boreholes only	
		☒ Neat Cement Grout	
		☐ Sand-Cement (Concrete) Grout	
		☐ Concrete	
		☐ Clay-Sand Slurry	
		☐ Bentonite-Sand Slurry	
		☐ Chipped Bentonite	
		☐ Bentonite Pellets	
		☐ Granular Bentonite	
		☐ Bentonite - Cement Grout	

(7) Sealing Material Used		From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement		Surface	8.0		
ROUT					

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work	
Matthew A. Swanson / Parsons Engineering Science, Inc.	
Signature of Person Doing Work	Date Signed
<i>Matthew A. Swanson</i>	1/9/95
Street or Route	Telephone Number
1700 Broadway, Ste. 900	(303) 831-8100
City, State, Zip Code	
Denver, CO 80226	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see Instructions on back.

1. GENERAL INFORMATION		2. FACILITY NAME	
Well/Drillhole/Borehole Location	County DANE	Original Well Owner (If Known) AS BELOW	
SE 1/4 of NW 1/4 of Sec. 29 ; T. 8 N. R. 10 (If applicable)		Present Well Owner WISCONSIN AIR NATIONAL GUARD	
Gov't Lot _____ Grid Number _____		Street or Route 3110 MITCHELL ST.	
Grid Location _____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.		City, State, Zip Code MADISON, WI 53704	
Civil Town Name		Facility Well No. and/or Name (If Applicable) CPT8 - Soil Sample #2	WI Unique Well No. -----
Street Address of Well 3110 MITCHELL ST.		Reason For Abandonment TERMINATION OF BORING	
City, Village MADISON		Date of Abandonment 9/15/94	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/15/94</u>		(4) Depth to Water (Feet) <u>7.8</u> Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>THIS IS A BORING, NOT A WELL</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole		Construction Report Available? ☐ Yes ☒ No	
Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CONE PENETRATOR</u>		Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		(5) Required Method of Placing Sealing Material ☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain)	
Total Well Depth (ft.) <u>8.0</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface)		(6) Sealing Materials For monitoring wells and monitoring well boreholes only ☒ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite	
Casing Depth (ft.) <u>N/A</u>		☐ Bentonite Pellets ☐ Granular Bentonite ☐ Bentonite - Cement Grout	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth?		Feet	

(7)	Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
	Portland Cement GROUT	Surface	8.0		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work Matthew A. Swenson / Parsons Engineering Science, Inc.	
Signature of Person Doing Work 	Date Signed 1/9/95
Street or Route 1700 Broadway, Ste. 900	Telephone Number (303) 831-8100
City, State, Zip Code Denver, CO 80226	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/Country
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. In. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County	Original Well Owner (If Known)	
SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N.R. 10 (If applicable)	DANE	AS BELOW	
Gov't Lot	Grid Number	Present Well Owner	
		WISCONSIN AIR NATIONAL GUARD	
Grid Location		Street or Route	
ft. ☐ N. ☐ S., ft. ☐ E. ☐ W.		3110 MITCHELL ST.	
Civil Town Name		City, State, Zip Code	
		MADISON, WI 53704	
Street Address of Well		Facility Well No. and/or Name (If Applicable)	
3110 MITCHELL ST.		CPT9 - Fiber	
City, Village		Reason For Abandonment	
MADISON		TERMINATION OF BORING	
		Date of Abandonment	
		9/13/94	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On		(4) Depth to Water (Feet)	
(Date) 9/13/94		6.5	
☐ Monitoring Well	Construction Report Available?	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Water Well	☐ Yes ☒ No	Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Drillhole		Screen Removed? ☐ Yes ☐ No ☒ Not Applicable	
☒ Borehole		Casing Left in Place? ☐ Yes ☒ No	
Construction Type:		If No, Explain THIS IS A BORING, NOT A WELL	
☐ Drilled		Was Casing Cut Off Below Surface? ☐ Yes ☒ No	
☐ Driven (Sandpoint)		Did Sealing Material Rise to Surface? ☒ Yes ☐ No	
☒ Other (Specify) DRIVEN W/ CONE PENETROMETER		Did Material Settle After 24 Hours? ☐ Yes ☒ No	
Formation Type:		If Yes, Was Hole Retopped? ☐ Yes ☐ No	
☒ Unconsolidated Formation		(5) Required Method of Placing Sealing Material	
☐ Bedrock		☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped	
Total Well Depth (ft.) 19.8	Casing Diameter (ins.) N/A	☐ Dump Bailer ☐ Other (Explain)	
(From ground surface)		(6) Sealing Materials	
Casing Depth (ft.) N/A		☒ Neat Cement Grout For monitoring wells and monitoring well boreholes only	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown		☐ Sand-Cement (Concrete) Grout	
If Yes, To What Depth? Feet		☐ Concrete ☐ Bentonite Pellets	
		☐ Clay-Sand Slurry ☐ Granular Bentonite	
		☐ Bentonite-Sand Slurry ☐ Bentonite - Cement Grout	
		☐ Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	19.8		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work	
Matthew A. Swenson / Parsons Engineering Science, Inc.	
Signature of Person Doing Work	Date Signed
<i>Matthew A. Swenson</i>	1/9/95
Street or Route	Telephone Number
100 Broadway, Ste. 900	(303) 831-8100
City, State, Zip Code	
Denver, CO 80226	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County	Original Well Owner (If Known)	
	DANE	AS BELOW	
SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N.R. 10 (If applicable)	☒ E ☐ W	Present Well Owner	
Gov't Lot	Grid Number	WISCONSIN AIR NATIONAL GUARD	
Grid Location		Street or Route	
ft. ☐ N. ☐ S., ft. ☐ E. ☐ W.		3110 MITCHELL ST.	
Civil Town Name		City, State, Zip Code	
		MADISON, WI 53704	
Street Address of Well		Facility Well No. and/or Name (If Applicable)	
3110 MITCHELL ST.		CPT10 - Fiber	
City, Village		Reason For Abandonment	
MADISON		TERMINATION OF BORING	
		Date of Abandonment	
		9/13/94	

WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet)	
(3) Original Well/Drillhole/Borehole Construction Completed On		8.0	
(Date) 9/13/94		Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Monitoring Well	Construction Report Available?	Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Water Well	☐ Yes ☒ No	Screen Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Drillhole		Casing Left in Place? ☐ Yes ☒ No	
☒ Borehole		If No, Explain THIS IS A BORING, NOT A WELL	
Construction Type:		Was Casing Cut Off Below Surface? ☐ Yes ☒ No	
☐ Drilled	☐ Driven (Sandpoint) ☐ Dug	Did Sealing Material Rise to Surface? ☒ Yes ☐ No	
☒ Other (Specify) DRIVEN W/ CONE PENETROMETER		Did Material Settle After 24 Hours? ☐ Yes ☒ No	
Formation Type:		If Yes, Was Hole Retopped? ☐ Yes ☐ No	
☒ Unconsolidated Formation	☐ Bedrock	(5) Required Method of Placing Sealing Material	
Total Well Depth (ft.) 20.0	Casing Diameter (ins.) N/A	☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped	
(From ground surface)		☐ Dump Bailer ☐ Other (Explain)	
Casing Depth (ft.) N/A		(6) Sealing Materials	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown	If Yes, To What Depth? Feet	For monitoring wells and monitoring well boreholes only	
		☒ Neat Cement Grout	
		☐ Sand-Cement (Concrete) Grout	
		☐ Concrete	
		☐ Clay-Sand Slurry	
		☐ Bentonite-Sand Slurry	
		☐ Chipped Bentonite	
		☐ Bentonite Pellets	
		☐ Granular Bentonite	
		☐ Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	20.0		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work	
Matthew A. Swenson / Parsons Engineering Science, Inc.	
Signature of Person Doing Work	Date Signed
<i>Matthew A. Swenson</i>	1/9/95
Street or Route	Telephone Number
1700 Broadway, Ste. 900	(303) 831-8100
City, State, Zip Code	
Denver, CO 80226	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>DANE</u>	Original Well Owner (If Known) <u>AS BELOW</u>	
<u>SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N.R. 10</u> ☒ E ☐ W		Present Well Owner <u>WISCONSIN AIR NATIONAL GUARD</u>	
(If applicable) Gov't Lot _____ Grid Number _____		Street or Route <u>3110 MITCHELL ST.</u>	
Grid Location _____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.		City, State, Zip Code <u>MADISON, WI 53704</u>	
Civil Town Name _____		Facility Well No. and/or Name (If Applicable) WI Unique Well No. <u>(PT11) - Fiber</u> _____	
Street Address of Well <u>3110 MITCHELL ST.</u>		Reason For Abandonment <u>TERMINATION OF BORING</u>	
City, Village <u>MADISON</u>		Date of Abandonment <u>9/13/94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/13/94</u>		(4) Depth to Water (Feet) <u>8.0</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole		Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Line (s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>THIS IS A BORING, NOT A WELL</u>	
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CONE PENETROMETER</u>		Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		(5) Required Method of Placing Sealing Material	
Total Well Depth (ft.) <u>19.9</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface) Casing Depth (ft.) <u>N/A</u>		☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain) _____	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet		(6) Sealing Materials	
		For monitoring wells and monitoring well boreholes only ☒ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	19.9		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work <u>Matthew A. Swenson / Parsons Engineering Science, Inc.</u>	
Signature of Person Doing Work <u>Matthew A. Swenson</u>	Date Signed <u>1/9/95</u>
Street or Route <u>1700 Broadway, Ste. 900</u>	Telephone Number <u>(303) 831-8100</u>
City, State, Zip Code <u>Denver CO 80226</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County	Original Well Owner (If Known)	
SE 1/4 of NW 1/4 of Sec. 29 ; T. 8 N. R. 10	DANE	AS BELOW	
(If applicable)	☒ E ☐ W	Present Well Owner	
Gov't Lot	Grid Number	WISCONSIN AIR NATIONAL GUARD	
Grid Location	ft. ☐ N. ☐ S. ☐ E. ☐ W.	Street or Route	
Civil Town Name		3110 MITCHELL ST.	
Street Address of Well		City, State, Zip Code	
3110 MITCHELL ST.		MADISON, WI 53704	
City, Village		Facility Well No. and/or Name (If Applicable)	
MADISON		CPT11-Hydropunch	
		WI Unique Well No.	
		Reason For Abandonment	
		TERMINATION OF BORING	
		Date of Abandonment	
		9/15/94	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On		(4) Depth to Water (Feet)	
(Date) 9/15/94		8.0	
☐ Monitoring Well	Construction Report Available?	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Water Well	☐ Yes ☒ No	Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Drillhole		Screen Removed? ☐ Yes ☐ No ☒ Not Applicable	
☒ Borehole		Casing Left in Place? ☐ Yes ☒ No	
Construction Type:		If No, Explain THIS IS A BORING, NOT A WELL	
☒ Drilled	☐ Driven (Sandpoint) ☐ Dug	Was Casing Cut Off Below Surface? ☐ Yes ☒ No	
☒ Other (Specify) DRIVEN W/ CONE PENETROMETER		Did Sealing Material Rise to Surface? ☒ Yes ☐ No	
Formation Type:		Did Material Settle After 24 Hours? ☐ Yes ☒ No	
☒ Unconsolidated Formation ☐ Bedrock		If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Total Well Depth (ft.) 12.5	Casing Diameter (ins.) N/A	(5) Required Method of Placing Sealing Material	
(From ground surface)		☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped	
Casing Depth (ft.) N/A		☐ Dump Bailer ☐ Other (Explain)	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown	Feet	(6) Sealing Materials	
If Yes, To What Depth?		For monitoring wells and monitoring well boreholes only	
		☒ Neat Cement Grout	
		☐ Sand-Cement (Concrete) Grout	
		☐ Concrete	
		☐ Clay-Sand Slurry	
		☐ Bentonite-Sand Slurry	
		☐ Chipped Bentonite	
		☐ Bentonite Pellets	
		☐ Granular Bentonite	
		☐ Bentonite - Cement Grout	

Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	12.5		

8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work	
Matthew A. Swanson / Parsons Engineering Science, Inc.	
Signature of Person Doing Work	Date Signed
<i>Matthew A. Swanson</i>	1/9/95
Street or Route	Telephone Number
100 Broadway, Ste. 900	(303) 831-8100
City, State, Zip Code	
Denver, CO 80226	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>DANE</u>	Original Well Owner (If Known) <u>AS BELOW</u>	
SE 1/4 of NW 1/4 of Sec. <u>29</u> : T. <u>8</u> N. R. <u>10</u> ☒ E ☐ W (If applicable)		Present Well Owner <u>WISCONSIN AIR NATIONAL GUARD</u>	
Gov't Lot _____ Grid Number _____		Street or Route <u>3110 MITCHELL ST.</u>	
Grid Location _____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.		City, State, Zip Code <u>MADISON, WI 53704</u>	
Civil Town Name <u>MADISON</u>		Facility Well No. and/or Name (If Applicable) WI Unique Well No. <u>CPT11- Soil Sample #1</u> _____	
Street Address of Well <u>3110 MITCHELL ST.</u>		Reason For Abandonment <u>TERMINATION OF BORING</u>	
City, Village <u>MADISON</u>		Date of Abandonment <u>9/15/94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/15/94</u>	(4) Depth to Water (Feet) <u>8.0</u>
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>THIS IS A BORING, NOT A WELL</u>
Construction Report Available? ☐ Yes ☒ No	Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CONE PENETROMETER</u>	(5) Required Method of Placing Sealing Material ☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain) _____
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock	(6) Sealing Materials For monitoring wells and monitoring well boreholes only ☒ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite
Total Well Depth (ft.) <u>70</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface) Casing Depth (ft.) <u>N/A</u> Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet	☐ Bentonite Pellets ☐ Granular Bentonite ☐ Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Portland Cement Grout</u>	<u>Surface</u>	<u>7.0</u>		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work <u>Matthew A. Swanson / Parsons Engineering Science, Inc.</u>	
Signature of Person Doing Work <u>Matthew A. Swanson</u>	Date Signed <u>1/9/95</u>
Street or Route <u>1700 Broadway, Ste. 900</u>	Telephone Number <u>(303) 831-8100</u>
City, State, Zip Code <u>Denver, CO 80226</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>DANE</u>	Original Well Owner (If Known) <u>AS BELOW</u>	
<u>SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N. R. 10</u> (If applicable)	☒ E ☐ W	Present Well Owner <u>WISCONSIN AIR NATIONAL GUARD</u>	
Gov't Lot	Grid Number	Street or Route <u>3110 MITCHELL ST.</u>	
Grid Location ft. ☐ N. ☐ S. ft. ☐ E. ☐ W.		City, State, Zip Code <u>MADISON, WI 53704</u>	
Civil Town Name		Facility Well No. and/or Name (If Applicable) <u>CPT12 - Fiber</u>	WI Unique Well No. _____
Street Address of Well <u>3110 MITCHELL ST.</u>		Reason For Abandonment <u>TERMINATION OF BORING</u>	
City, Village <u>MADISON</u>		Date of Abandonment <u>9/13/94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet) <u>65</u>	
Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/13/94</u>	Construction Report Available? ☐ Yes ☒ No	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>THIS IS A BORING, NOT A WELL</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole	Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CONE PENETROMETER</u>	Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		(5) Required Method of Placing Sealing Material	
Total Well Depth (ft.) <u>16.7</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface)		☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain) _____	
Casing Depth (ft.) <u>N/A</u>		(6) Sealing Materials	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet		☒ Neat Cement Grout For monitoring wells and monitoring well boreholes only ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Bentonite Pellets ☐ Clay-Sand Slurry ☐ Granular Bentonite ☐ Bentonite-Sand Slurry ☐ Bentonite - Cement Grout ☐ Chipped Bentonite	

Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	16.7		

3) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work <u>Matthew A. Swanson / Parsons Engineering Science, Inc.</u>	
Signature of Person Doing Work <u>Matthew A. Swanson</u>	Date Signed <u>1/9/95</u>
Street or Route <u>1700 Broadway, Ste. 900</u>	Telephone Number <u>(303) 831-8100</u>
City, State, Zip Code <u>Denver, CO 80226</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County	Original Well Owner (If Known)	
	DANE	AS BELOW	
(If applicable) SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N. R. 10		Present Well Owner	
Gov't Lot		WISCONSIN AIR NATIONAL GUARD	
Grid Number		Street or Route	
3110 MITCHELL ST.		City, State, Zip Code	
MADISON, WI 53704		Facility Well No. and/or Name (If Applicable)	
CPT13 - Fiber		WI Unique Well No.	
Street Address of Well		Reason For Abandonment	
3110 MITCHELL ST.		TERMINATION OF BORING	
City, Village		Date of Abandonment	
MADISON		9/13/94	

WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet)	
Original Well/Drillhole/Borehole Construction Completed On		8.0	
(Date) 9/13/94		Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Monitoring Well		Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Water Well		Screen Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Drillhole		Casing Left in Place? ☐ Yes ☒ No	
☒ Borehole		If No, Explain THIS IS A BORING, NOT A WELL	
Construction Type:		Was Casing Cut Off Below Surface? ☐ Yes ☒ No	
☐ Drilled		Did Sealing Material Rise to Surface? ☒ Yes ☐ No	
☐ Driven (Sandpoint)		Did Material Settle After 24 Hours? ☐ Yes ☒ No	
☒ Other (Specify) DRIVEN W/ CONE PENETROMETER		If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type:		(5) Required Method of Placing Sealing Material	
☒ Unconsolidated Formation		☐ Conductor Pipe-Gravity	
☐ Bedrock		☒ Conductor Pipe-Pumped	
Total Well Depth (ft.) 19.5		☐ Dump Bailer	
Casing Diameter (ins.) N/A		☐ Other (Explain)	
Casing Depth (ft.) N/A		(6) Sealing Materials	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown		For monitoring wells and monitoring well boreholes only	
If Yes, To What Depth?		☒ Neat Cement Grout	
		☐ Sand-Cement (Concrete) Grout	
		☐ Concrete	
		☐ Clay-Sand Slurry	
		☐ Bentonite-Sand Slurry	
		☐ Chipped Bentonite	
		☐ Bentonite Pellets	
		☐ Granular Bentonite	
		☐ Bentonite - Cement Grout	

Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	19.5		

Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work	
Matthew A. Swanson / Parsons Engineering Science, Inc.	
Signature of Person Doing Work	Date Signed
<i>Matthew A. Swanson</i>	1/9/95
Street or Route	Telephone Number
1700 Broadway, Ste. 900	(303) 831-8100
City, State, Zip Code	
Denver, CO 80226	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>DANE</u>	Original Well Owner (If Known) <u>AS BELOW</u>	
SE 1/4 of NW 1/4 of Sec. <u>29</u> ; T. <u>8</u> N.R. <u>10</u> (If applicable)		Present Well Owner <u>WISCONSIN AIR NATIONAL GUARD</u>	
Gov't Lot _____ Grid Number _____		Street or Route <u>3110 MITCHELL ST.</u>	
Grid Location _____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.		City, State, Zip Code <u>MADISON, WI 53704</u>	
Civil Town Name _____		Facility Well No. and/or Name (If Applicable) WI Unique Well No. <u>CPT14 - Fiber</u> _____	
Street Address of Well <u>3110 MITCHELL ST.</u>		Reason For Abandonment <u>TERMINATION OF BORING</u>	
City, Village <u>MADISON</u>		Date of Abandonment <u>9/13/94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/13/94</u>		(4) Depth to Water (Feet) <u>8.5</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole		Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>THIS IS A BORING, NOT A WELL</u>	
Construction Report Available? ☐ Yes ☒ No		Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CONE PENETROMETER</u>		(5) Required Method of Placing Sealing Material	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain) _____	
Total Well Depth (ft.) <u>15.2</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface)		(6) Sealing Materials	
Casing Depth (ft.) <u>N/A</u>		For monitoring wells and monitoring well boreholes only ☒ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet		☐ Bentonite Pellets ☐ Granular Bentonite ☐ Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	15.2		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work <u>Matthew A. Swanson / Parsons Engineering Science, Inc.</u>	
Signature of Person Doing Work <u>Matthew A. Swanson</u>	Date Signed <u>1/9/95</u>
Street or Route <u>1700 Broadway, Ste. 900</u>	Telephone Number <u>(303) 831-8100</u>
City, State, Zip Code <u>Denver CO 80226</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County	Original Well Owner (If Known)	
SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N. R. 10	DANE	AS BELOW	
(If applicable)		Present Well Owner	
Gov't Lot	Grid Number	WISCONSIN AIR NATIONAL GUARD	
Grid Location		Street or Route	
ft. ☐ N. ☐ S. ft. ☐ E. ☐ W.		3110 MITCHELL ST.	
Civil Town Name		City, State, Zip Code	
Street Address of Well		MADISON, WI 53704	
City, Village		Facility Well No. and/or Name (If Applicable)	
MADISON		CPT15-Fiber	
		Reason For Abandonment	
		TERMINATION OF BORING	
		Date of Abandonment	
		9/14/94	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On		(4) Depth to Water (Feet)	
(Date) 9/14/94		5.5	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole		Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain THIS IS A BORING, NOT A WELL	
Construction Report Available? ☐ Yes ☒ No		Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) DRIVEN W/ CONE PENETROMETER		(5) Required Method of Placing Sealing Material	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain)	
Total Well Depth (ft.) 23.0 Casing Diameter (ins.) N/A (From ground surface) Casing Depth (ft.) N/A		(6) Sealing Materials	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? Feet		For monitoring wells and monitoring well boreholes only ☒ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	23.0		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work	
Matthew A. Swanson / Parsons Engineering Science, Inc.	
Signature of Person Doing Work	Date Signed
<i>Matthew A. Swanson</i>	1/9/95
Street or Route	Telephone Number
100 Broadway, Ste. 900	(303) 831-8100
City, State, Zip Code	
Denver, CO 80226	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>DANE</u>	Original Well Owner (If Known) <u>AS BELOW</u>	
SE 1/4 of NW 1/4 of Sec. <u>29</u> ; T. <u>8</u> N. R. <u>10</u> (If applicable)		Present Well Owner <u>WISCONSIN AIR NATIONAL GUARD</u>	
Gov't Lot _____ Grid Number _____		Street or Route <u>3110 MITCHELL ST.</u>	
Grid Location _____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.		City, State, Zip Code <u>MADISON, WI 53704</u>	
Civil Town Name _____		Facility Well No. and/or Name (If Applicable) WI Unique Well No. <u>CPT16 - Fiber</u> _____	
Street Address of Well <u>3110 MITCHELL ST.</u>		Reason For Abandonment <u>TERMINATION OF BORING</u>	
City, Village <u>MADISON</u>		Date of Abandonment <u>9/14/94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/14/94</u>		(4) Depth to Water (Feet) <u>4.0</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole		Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>THIS IS A BORING, NOT A WELL</u>	
Construction Report Available? ☐ Yes ☒ No		Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CONE PENETROMETER</u>		(5) Required Method of Placing Sealing Material	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain) _____	
Total Well Depth (ft.) <u>16.4</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface)		(6) Sealing Materials	
Casing Depth (ft.) <u>N/A</u>		For monitoring wells and monitoring well boreholes only ☒ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet		☐ Bentonite Pellets ☐ Granular Bentonite ☐ Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Portland Cement Grout</u>	<u>Surface</u>	<u>16.4</u>		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work <u>Matthew A. Swanson / Parsons Engineering Science, Inc.</u>	
Signature of Person Doing Work <u>Matthew A. Swanson</u>	Date Signed <u>1/9/95</u>
Street or Route <u>100 Broadway, Ste. 900</u>	Telephone Number <u>(303) 831-8100</u>
City, State, Zip Code <u>Denver, CO 80226</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see Instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>DANE</u>	Original Well Owner (If Known) <u>AS BELOW</u>	
SE 1/4 of NW 1/4 of Sec. <u>29</u> : T. <u>8</u> N. R. <u>10</u> ☒ E ☐ W (If applicable)		Present Well Owner <u>WISCONSIN AIR NATIONAL GUARD</u>	
Gov't Lot _____ Grid Number _____		Street or Route <u>3110 MITCHELL ST.</u>	
Grid Location _____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.		City, State, Zip Code <u>MADISON, WI 53704</u>	
Civil Town Name <u>MADISON</u>		Facility Well No. and/or Name (If Applicable) <u>CPT17-Fiber</u>	WI Unique Well No. _____
Street Address of Well <u>3110 MITCHELL ST.</u>		Reason For Abandonment <u>TERMINATION OF BORING</u>	
City, Village <u>MADISON</u>		Date of Abandonment <u>9/14/94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/14/94</u>		(4) Depth to Water (Feet) <u>3.4</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole		Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>THIS IS A BORING, NOT A WELL</u>	
Construction Report Available? ☐ Yes ☒ No		Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CONE PENETROMETER</u>		(5) Required Method of Placing Sealing Material ☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain) _____	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		(6) Sealing Materials ☒ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite	
Total Well Depth (ft.) <u>22.9</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface)		For monitoring wells and monitoring well boreholes only ☐ Bentonite Pellets ☐ Granular Bentonite ☐ Bentonite - Cement Grout	
Casing Depth (ft.) <u>N/A</u>		Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	22.9		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work <u>Matthew A. Swanson / Parsons Engineering Science, Inc.</u>	
Signature of Person Doing Work <u>Matthew A. Swanson</u>	Date Signed <u>1/9/95</u>
Street or Route <u>100 Broadway, Ste. 900</u>	Telephone Number <u>(303) 831-8100</u>
City, State, Zip Code <u>Denver, CO 80226</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. In. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>DANE</u>	Original Well Owner (If Known) <u>AS BELOW</u>	
<u>SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N.R. 10</u> ☒ E ☐ W (If applicable)		Present Well Owner <u>WISCONSIN AIR NATIONAL GUARD</u>	
Gov't Lot _____ Grid Number _____		Street or Route <u>3110 MITCHELL ST.</u>	
Grid Location _____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.		City, State, Zip Code <u>MADISON, WI 53704</u>	
Civil Town Name <u>MADISON</u>		Facility Well No. and/or Name (If Applicable) WI Unique Well No. <u>CPT17- Soil Sample #1</u> _____	
Street Address of Well <u>3110 MITCHELL ST.</u>		Reason For Abandonment <u>TERMINATION OF BORING</u>	
City, Village <u>MADISON</u>		Date of Abandonment <u>9/14/94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/14/94</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole	Construction Report Available? ☐ Yes ☒ No
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CONE PENETROMETER</u>	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock	
Total Well Depth (ft.) <u>5.5</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface)	
Casing Depth (ft.) <u>N/A</u>	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet	
(4) Depth to Water (Feet) <u>3.4</u> Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>THIS IS A BORING, NOT A WELL</u> Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
(5) Required Method of Placing Sealing Material ☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain) _____	
(6) Sealing Materials For monitoring wells and monitoring well boreholes only ☒ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite ☐ Bentonite Pellets ☐ Granular Bentonite ☐ Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Portland Cement Grout</u>	<u>Surface</u>	<u>5.5</u>		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work <u>Matthew A. Swenson / Parsons Engineering Science, Inc.</u>		(10) FOR DNR OR COUNTY USE ONLY	
Signature of Person Doing Work <u>Matthew A. Swenson</u>	Date Signed <u>1/9/95</u>	Date Received/Inspected	District/County
Street or Route <u>100 Broadway, Ste. 900</u>	Telephone Number <u>(303) 831-8100</u>	Reviewer/Inspector	
City, State, Zip Code <u>Denver, CO 80226</u>		Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wisconsin Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>DANE</u>	Original Well Owner (If Known) <u>AS BELOW</u>	
<u>SE 1/4 of NW 1/4 of Sec. 29 : T 8 N R 10</u> ☒ E ☐ W (If applicable)		Present Well Owner <u>WISCONSIN AIR NATIONAL GUARD</u>	
Gov't Lot	Grid Number	Street or Route <u>3110 MITCHELL ST.</u>	
Grid Location ft. ☐ N. ☐ S. ☐ E. ☐ W.		City, State, Zip Code <u>MADISON, WI 53704</u>	
Civil Town Name		Facility Well No. and/or Name (If Applicable)	WI Unique Well No.
Street Address of Well <u>3110 MITCHELL ST.</u>		<u>CPT18 - Fiber</u>	
City, Village <u>MADISON</u>		Reason For Abandonment <u>TERMINATION OF BORING</u>	
		Date of Abandonment <u>9/14/94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/14/94</u>		(4) Depth to Water (Feet) <u>4.0</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole	Construction Report Available? ☐ Yes ☒ No	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>THIS IS A BORING, NOT A WELL</u>	
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify, <u>DRIVEN W/ CONE PENETROMETER</u>)		Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		(5) Required Method of Placing Sealing Material ☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain)	
Total Well Depth (ft.) <u>15.1</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface)		(6) Sealing Materials For monitoring wells and monitoring well boreholes only ☒ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite	
Casing Depth (ft.) <u>N/A</u>		☐ Bentonite Pellets ☐ Granular Bentonite ☐ Bentonite - Cement Grout	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet			

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Portland Cement Grout</u>	<u>Surface</u>	<u>15.1</u>		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work <u>Matthew A. Swanson / Parsons Engineering Science, Inc.</u>	
Signature of Person Doing Work <u>Matthew A. Swanson</u>	Date Signed <u>11/9/95</u>
Street or Route <u>1700 Broadway, Ste. 900</u>	Telephone Number <u>(303) 831-8100</u>
City, State, Zip Code <u>Denver, CO 80226</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Stat. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>DANE</u>	Original Well Owner (If Known) <u>AS BELOW</u>	
<u>SE 1/4 of NW 1/4 of Sec. 29</u> : T. <u>8</u> N. R. <u>10</u> ☒ E ☐ W (If applicable)	Gov't Lot _____ Grid Number _____	Present Well Owner <u>WISCONSIN AIR NATIONAL GUARD</u>	
Grid Location _____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.	Civil Town Name _____	Street or Route <u>3110 MITCHELL ST.</u>	
Street Address of Well <u>3110 MITCHELL ST.</u>	City, State, Zip Code <u>MADISON, WI 53704</u>	Facility Well No. and/or Name (If Applicable) WI Unique Well No. <u>CPT19 - Fiber</u> _____	
City, Village <u>MADISON</u>	Reason For Abandonment <u>TERMINATION OF BORING</u>	Date of Abandonment <u>9/15/94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/15/94</u>		(4) Depth to Water (Feet) <u>8.5</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole	Construction Report Available? ☐ Yes ☒ No	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>THIS IS A BORING, NOT A WELL</u>	
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CONE PENETROMETER</u>		Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock Total Well Depth (ft.) <u>15.0</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface) Casing Depth (ft.) <u>N/A</u> Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet		(5) Required Method of Placing Sealing Material ☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain) _____	
(6) Sealing Materials ☒ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite		For monitoring wells and monitoring well boreholes only ☐ Bentonite Pellets ☐ Granular Bentonite ☐ Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	15.0		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work <u>Matthew A. Swanson / Parsons Engineering Science, Inc.</u>	
Signature of Person Doing Work <u>Matthew A. Swanson</u>	Date Signed <u>1/9/95</u>
Street or Route <u>1700 Broadway, Ste. 900</u>	Telephone Number <u>(303) 831-8100</u>
City, State, Zip Code <u>Denver, CO 80226</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see Instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>DANE</u>	Original Well Owner (If Known) <u>AS BELOW</u>	
<u>SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N. R. 10</u> (If applicable)	☒ E ☐ W	Present Well Owner <u>WISCONSIN AIR NATIONAL GUARD</u>	
Gov't Lot	Grid Number	Street or Route <u>3110 MITCHELL ST.</u>	
Grid Location ft. ☐ N. ☐ S. ft. ☐ E. ☐ W.		City, State, Zip Code <u>MADISON, WI 53704</u>	
Civil Town Name		Facility Well No. and/or Name (If Applicable)	WI Unique Well No.
Street Address of Well <u>3110 MITCHELL ST.</u>		<u>CPT20-Fiber</u>	
City, Village <u>MADISON</u>		Reason For Abandonment <u>TERMINATION OF BORING</u>	
		Date of Abandonment <u>9/15/94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9/15/94</u>		(4) Depth to Water (Feet) <u>7.0</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole	Construction Report Available? ☐ Yes ☒ No	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>THIS IS A BORING, NOT A WELL</u>	
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CONE PENETROMETER</u>		Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock Total Well Depth (ft.) <u>15.1</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface) Casing Depth (ft.) <u>N/A</u> Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet		(5) Required Method of Placing Sealing Material ☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain) _____	
		(6) Sealing Materials For monitoring wells and monitoring well boreholes only ☒ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite ☐ Bentonite Pellets ☐ Granular Bentonite ☐ Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Portland Cement Grout</u>	<u>Surface</u>	<u>15.1</u>		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work <u>Matthew A. Swenson / Parsons Engineering Science, Inc.</u>	
Signature of Person Doing Work <u>Matthew A. Swenson</u>	Date Signed <u>1/9/95</u>
Street or Route <u>100 Broadway, Ste. 900</u>	Telephone Number <u>(303) 831-8100</u>
City, State, Zip Code <u>Denver, CO 80226</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County	Original Well Owner (If Known)	
	DANE	AS BELOW	
SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N. R. 10	☒ E ☐ W	Present Well Owner	
(If applicable)		WISCONSIN AIR NATIONAL GUARD	
Gov't Lot	Grid Number	Street or Route	
		3110 MITCHELL ST.	
Grid Location		City, State, Zip Code	
ft. ☐ N. ☐ S. ft. ☐ E. ☐ W.		MADISON, WI 53704	
Civil Town Name		Facility Well No. and/or Name (If Applicable)	WI Unique Well No.
		CPT 3 (Hand Auger)	
Street Address of Well		Reason For Abandonment	
3110 MITCHELL ST.		TERMINATION OF BORING	
City, Village		Date of Abandonment	
MADISON		9/16/94	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On		(4) Depth to Water (Feet)	
(Date) 9/16/94		8.0	
☐ Monitoring Well	Construction Report Available?	Pump & Piping Removed?	☐ Yes ☐ No ☒ Not Applicable
☐ Water Well	☐ Yes ☒ No	Liner(s) Removed?	☐ Yes ☐ No ☒ Not Applicable
☐ Drillhole		Screen Removed?	☐ Yes ☐ No ☒ Not Applicable
☒ Borehole		Casing Left in Place?	☐ Yes ☒ No
Construction Type:		If No, Explain	THIS IS A BORING, NOT A WELL
☐ Drilled	☐ Driven (Sandpoint)	Was Casing Cut Off Below Surface?	☐ Yes ☒ No
☒ Other (Specify)	HAND-DRIVEN W/ CONE PENETROMETER	Did Sealing Material Rise to Surface?	☒ Yes ☐ No
	HAND-AUGERED	Did Material Settle After 24 Hours?	☐ Yes ☒ No
Formation Type:		If Yes, Was Hole Retopped?	☐ Yes ☐ No
☒ Unconsolidated Formation	☐ Bedrock		
Total Well Depth (ft.)	Casing Diameter (ins.)	(5) Required Method of Placing Sealing Material	
6.5	N/A	☐ Conductor Pipe-Gravity	☒ Conductor Pipe-Pumped
(From ground surface)		☐ Dump Bailer	☐ Other (Explain)
Casing Depth (ft.)		(6) Sealing Materials	For monitoring wells and monitoring well boreholes only
N/A		☒ Neat Cement Grout	
Was Well Annular Space Grouted?	☐ Yes ☐ No ☐ Unknown	☐ Sand-Cement (Concrete) Grout	☐ Bentonite Pellets
If Yes, To What Depth?	Feet	☐ Concrete	☐ Granular Bentonite
		☐ Clay-Sand Slurry	☐ Bentonite - Cement Grout
		☐ Bentonite-Sand Slurry	
		☐ Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	6.5		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work	
Matthew A. Swanson / Parsons Engineering Science, Inc.	
Signature of Person Doing Work	Date Signed
<i>Matthew A. Swanson</i>	1/9/95
Street or Route	Telephone Number
100 Broadway, Ste. 700	(303) 831-8100
City, State, Zip Code	
Denver, CO 80221	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis.
1. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County DANE	Original Well Owner (If Known) AS BELOW	
SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N. R. 10 (If applicable)		Present Well Owner WISCONSIN AIR NATIONAL GUARD	
Gov't Lot		Street or Route 3110 MITCHELL ST.	
Grid Location ft. ☐ N. ☐ S., ft. ☐ E. ☐ W.		City, State, Zip Code MADISON, WI 53704	
Civil Town Name		Facility Well No. and/or Name (If Applicable) CPT-7 (Hand Auger)	
Street Address of Well 3110 MITCHELL ST.		Reason For Abandonment TERMINATION OF BORING	
City, Village MADISON		Date of Abandonment 9/16/94	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet) 7	
Original Well/Drillhole/Borehole Construction Completed On (Date) 9/16/94		Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole		Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable	
Construction Report Available? ☐ Yes ☒ No		Screen Removed? ☐ Yes ☐ No ☒ Not Applicable	
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) ~~WIRELINE PENETRATOR~~ HAND-AUGERED		Casing Left in Place? ☐ Yes ☒ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		If No, Explain THIS IS A BORING, NOT A WELL	
Total Well Depth (ft.) 8 Casing Diameter (ins.) N/A		Was Casing Cut Off Below Surface? ☐ Yes ☒ No	
Casing Depth (ft.) N/A		Did Sealing Material Rise to Surface? ☒ Yes ☐ No	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? Feet		Did Material Settle After 24 Hours? ☐ Yes ☒ No	
		If Yes, Was Hole Retopped? ☐ Yes ☐ No	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	8		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work Matthew A. Swanson / Parsons Engineering Science, Inc.	
Signature of Person Doing Work <i>Matthew A. Swanson</i>	Date Signed 1/9/95
Street or Route 100 Broadway, Ste. 700	Telephone Number (303) 831-8100
City, State, Zip Code Denver, CO 80221	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. in. Code, whichever is applicable. Also, see Instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County	Original Well Owner (If Known)	
	DANE	AS BELOW	
SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N. R. 10	☒ E ☐ W	Present Well Owner	
(If applicable)		WISCONSIN AIR NATIONAL GUARD	
Gov't Lot	Grid Number	Street or Route	
		3110 MITCHELL ST.	
Grid Location		City, State, Zip Code	
ft. ☐ N. ☐ S. ft. ☐ E. ☐ W.		MADISON, WI 53704	
Civil Town Name		Facility Well No. and/or Name (If Applicable)	WI Unique Well No.
		CPT-9 (Hand Auger)	
Street Address of Well		Reason For Abandonment	
3110 MITCHELL ST.		TERMINATION OF BORING	
City, Village		Date of Abandonment	
MADISON		9/16/94	

WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 9/16/94	(4) Depth to Water (Feet) 6.5
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain THIS IS A BORING, NOT A WELL
Construction Report Available? ☐ Yes ☒ No	Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) <u>DRIVEN W/ CASE PENETRATOR</u> <u>HAND-AUGERED</u>	(5) Required Method of Placing Sealing Material ☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain)
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock	(6) Sealing Materials For monitoring wells and monitoring well boreholes only ☒ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite
Total Well Depth (ft.) 6 Casing Diameter (ins.) N/A (From ground surface) Casing Depth (ft.) N/A Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? Feet	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	6		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work		(10) FOR DNR OR COUNTY USE ONLY	
Matthew A. Swanson / Parsons Engineering Science, Inc.		Date Received/Inspected	District/County
Signature of Person Doing Work	Date Signed		
<i>Matthew A. Swanson</i>	1/9/95	Reviewer/Inspector	
Street or Route	Telephone Number		
1700 Broadway, Ste. 900	(303) 831-8100	Follow-up Necessary	
City, State, Zip Code			
Denver, CO 80221			

Abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. in. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County DANE	Original Well Owner (If Known) AS BELOW	
SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N. R. 10 (If applicable)		Present Well Owner WISCONSIN AIR NATIONAL GUARD	
Gov't Lot _____ Grid Number _____		Street or Route 3110 MITCHELL ST.	
Grid Location _____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.		City, State, Zip Code MADISON, WI 53704	
Civil Town Name		Facility Well No. and/or Name (If Applicable) CPT-18 (Hand Auger)	WI Unique Well No. _____
Street Address of Well 3110 MITCHELL ST.		Reason For Abandonment TERMINATION OF BORING	
City, Village MADISON		Date of Abandonment 9/15/94	

WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet) 4.0	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 9/15/94		Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole		Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable	
Construction Report Available? ☐ Yes ☒ No		Screen Removed? ☐ Yes ☐ No ☒ Not Applicable	
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (Specify) ~~DRIVEN W/ CONE PENETRATOR~~ HAND-AUGERED		Casing Left in Place? ☐ Yes ☒ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		If No, Explain THIS IS A BORING, NOT A WELL	
Total Well Depth (ft.) 5.8 Casing Diameter (ins.) N/A		Was Casing Cut Off Below Surface? ☐ Yes ☒ No	
Casing Depth (ft.) N/A		Did Sealing Material Rise to Surface? ☒ Yes ☐ No	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown If Yes, To What Depth? _____ Feet		Did Material Settle After 24 Hours? ☐ Yes ☒ No	
		If Yes, Was Hole Retopped? ☐ Yes ☐ No	
		(5) Required Method of Placing Sealing Material	
		☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped	
		☐ Dump Bailer ☐ Other (Explain)	
		(6) Sealing Materials	
		☒ Neat Cement Grout For monitoring wells and monitoring well boreholes only	
		☐ Sand-Cement (Concrete) Grout	
		☐ Concrete	
		☐ Clay-Sand Slurry	
		☐ Bentonite-Sand Slurry	
		☐ Chipped Bentonite	
		☐ Bentonite Pellets	
		☐ Granular Bentonite	
		☐ Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	5.8		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work Matthew A. Swanson / Parsons Engineering Science, Inc.	
Signature of Person Doing Work <i>Matthew A. Swanson</i>	Date Signed 1/9/95
Street or Route 100 Broadway, Ste. 900	Telephone Number (303) 831-8100
City, State, Zip Code Denver, CO 80221	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County	Original Well Owner (If Known)	
SE 1/4 of NW 1/4 of Sec. 29 : T. 8 N. R. 10	DANE	AS BELOW	
(If applicable)	☒ E ☐ W	Present Well Owner	
Gov't Lot	Grid Number	WISCONSIN AIR NATIONAL GUARD	
Grid Location	City, State, Zip Code	Street or Route	
ft. ☐ N. ☐ S. ft. ☐ E. ☐ W.	MADISON, WI 53704	3110 MITCHELL ST.	
Civil Town Name	Facility Well No. and/or Name (If Applicable)	WI Unique Well No.	
Street Address of Well	Reason For Abandonment	CPT-20 (Hand Auger)	
3110 MITCHELL ST.	TERMINATION OF BORING		
City, Village	Date of Abandonment		
MADISON	9/16/94		

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On		(4) Depth to Water (Feet)	
(Date) 9/16/94		7.0	
☐ Monitoring Well	Construction Report Available?	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Water Well	☐ Yes ☒ No	Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable	
☐ Drillhole		Screen Removed? ☐ Yes ☐ No ☒ Not Applicable	
☒ Borehole		Casing Left in Place? ☐ Yes ☒ No	
Construction Type:		If No, Explain THIS IS A BORING, NOT A WELL	
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug		Was Casing Cut Off Below Surface? ☐ Yes ☒ No	
☒ Other (Specify) <u>DRIVEN W/ CONE PENETRATOR</u>		Did Sealing Material Rise to Surface? ☒ Yes ☐ No	
HAND-AUGERED		Did Material Settle After 24 Hours? ☐ Yes ☒ No	
Formation Type:		If Yes, Was Hole Retopped? ☐ Yes ☐ No	
☒ Unconsolidated Formation ☐ Bedrock		(5) Required Method of Placing Sealing Material	
Total Well Depth (ft.) 7.0	Casing Diameter (ins.) N/A	☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped	
(From ground surface)		☐ Dump Bailer ☐ Other (Explain)	
Casing Depth (ft.) N/A		(6) Sealing Materials	
Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown	Feet	For monitoring wells and monitoring well boreholes only	
If Yes, To What Depth?		☒ Neat Cement Grout	
		☐ Sand-Cement (Concrete) Grout	
		☐ Concrete	
		☐ Clay-Sand Slurry	
		☐ Bentonite-Sand Slurry	
		☐ Chipped Bentonite	
		☐ Bentonite Pellets	
		☐ Granular Bentonite	
		☐ Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Portland Cement Grout	Surface	7.0		

(8) Comments: THIS IS A SOIL BORING, NOT A WELL

Name of Person or Firm Doing Sealing Work	
Matthew A. Swanson / Parsons Engineering Science, Inc.	
Signature of Person Doing Work	Date Signed
<i>[Signature]</i>	1/9/95
Street or Route	Telephone Number
120 Broadway, Ste. 900	(303) 831-8100
City, State, Zip Code	
Denver, CO 80224	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Stat., whichever is applicable. Also, see instructions on back.

GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location <u>CPT-3</u>	County <u>Dane</u>	Original Well Owner (If Known) <u>Wisconsin Air National Guard</u>	
SE 1/4 of NW 1/4 of Sec. 29 ; T. 8 N. R. 10 (If applicable)		Present Well Owner <u>as above</u>	
Gov't Lot _____ Grid Number _____		Street or Route <u>3110 Mitchell St.</u>	
Grid Location _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.		City, State, Zip Code <u>Madison WI 53704</u>	
Civil Town Name <u>as above</u>		Facility Well No. and/or Name (If Applicable) WI Unique Well No. _____	
Street Address of Well ↓		Reason For Abandonment <u>Prevent potential groundwater contamination</u>	
City, Village ↓		Date of Abandonment <u>11-7-94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet)	
Original Well/Drillhole/Borehole Construction Completed On (Date) <u>11-7-94</u>		Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>This is a soil boring</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole	Construction Report Available? ☐ Yes ☒ No	Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify) _____		(5) Required Method of Placing Sealing Material	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		☒ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain) _____	
Total Well Depth (ft.) <u>5.8</u> Casing Diameter (ins.) <u>NA</u> (From ground surface)		(6) Sealing Materials	
Casing Depth (ft.) <u>NA</u>		For monitoring wells and monitoring well boreholes only ☐ Neat Cement Grout ☐ Bentonite Pellets ☐ Sand-Cement (Concrete) Grout ☒ Granular Bentonite ☐ Concrete ☐ Bentonite - Cement Grout ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite	
Was Well Annular Space Grouted? ☐ Yes ☒ No ☐ Unknown If Yes, To What Depth? _____ Feet			

Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Granular Bentonite	Surface	5.8	10 lbs.	Dry

Comments: This is a soil boring, not a well

Name of Person or Firm Doing Sealing Work <u>Steve Gaffield / BT²</u>	
Signature of Person Doing Work <u>Steve Gaffield</u>	Date Signed <u>11-7-94</u>
Street or Route <u>3118 Watford Way</u>	Telephone Number <u>(608) 277-2840</u>
City, State, Zip Code <u>Madison WI 53713</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

WELL/DRILL/BOREHOLE OWNER

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location <u>CPT 7</u>	County <u>Dane</u>	Original Well Owner (If Known) <u>Wisconsin Air National Guard</u>	
SE 1/4 of NW 1/4 of Sec. <u>29</u> ; T. <u>8</u> N. R. <u>10</u> (If applicable)		Present Well Owner <u>as above</u>	
Gov't Lot _____ Grid Number _____		Street or Route <u>3110 Mitchell St.</u>	
Grid Location _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.		City, State, Zip Code <u>Madison WI 53704</u>	
Civil Town Name <u>as above</u>		Facility Well No. and/or Name (If Applicable) _____ WI Unique Well No. _____	
Street Address of Well ↓		Reason For Abandonment <u>Prevent potential groundwater contamination</u>	
City, Village _____		Date of Abandonment <u>11-7-94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>11-7-94</u>		(4) Depth to Water (Feet) <u>7.5</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole		Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>This is a soil boring</u>	
Construction Report Available? ☐ Yes ☒ No		Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify) _____		(5) Required Method of Placing Sealing Material	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		☒ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain) _____	
Total Well Depth (ft.) <u>8.3</u> Casing Diameter (ins.) <u>NA</u> (From ground surface)		(6) Sealing Materials	
Casing Depth (ft.) <u>NA</u>		For monitoring wells and monitoring well boreholes only ☐ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite	
Was Well Annular Space Grouted? ☐ Yes ☒ No ☐ Unknown If Yes, To What Depth? _____ Feet		☐ Bentonite Pellets ☒ Granular Bentonite ☐ Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Granular Bentonite</u>	<u>Surface</u>	<u>8.3</u>	<u>20 lbs.</u>	<u>Dry</u>

(8) Comments: This is a soil boring, not a well

(9) Name of Person or Firm Doing Sealing Work <u>Steve Gaffield / ST²</u>		(10) FOR DNR OR COUNTY USE ONLY	
Signature of Person Doing Work <u>Steve Gaffield</u>	Date Signed 	Date Received/Inspected 	District/County
Street or Route <u>3118 Watford Way</u>	Telephone Number <u>(608) 277-2840</u>	Reviewer/Inspector 	
City, State, Zip Code <u>Madison WI 53713</u>		Follow-up Necessary 	

WELL/DRILL/BOREHOLE OWNER

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location <u>CPT-9</u>	County <u>Dane</u>	Original Well Owner (If Known) <u>Wisconsin Air National Guard</u>	
SE 1/4 of NW 1/4 of Sec. <u>29</u> ; T. <u>8</u> N. R. <u>10</u> (If applicable)		Present Well Owner <u>as above</u>	
Gov't Lot _____ Grid Number _____		Street or Route <u>3110 Mitchell St.</u>	
Grid Location _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.		City, State, Zip Code <u>Madison WI 53704</u>	
Civil Town Name <u>as above</u>		Facility Well No. and/or Name (If Applicable) WI Unique Well No. _____ _____	
Street Address of Well <u>1</u>		Reason For Abandonment <u>Prevent potential groundwater contamination</u>	
City, Village <u>↓</u>		Date of Abandonment <u>11-7-94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>11-7-94</u>		(4) Depth to Water (Feet) _____	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole	Construction Report Available? ☐ Yes ☒ No	Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>This is a soil boring</u>	
Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify) _____		Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		(5) Required Method of Placing Sealing Material ☒ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain) _____	
Total Well Depth (ft.) <u>6.0</u> Casing Diameter (ins.) <u>NA</u> (From ground surface)		(6) Sealing Materials ☐ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Clay-Sand Slurry ☐ Bentonite-Sand Slurry ☐ Chipped Bentonite	
Casing Depth (ft.) <u>NA</u>		For monitoring wells and monitoring well boreholes only ☐ Bentonite Pellets ☒ Granular Bentonite ☐ Bentonite - Cement Grout	
Was Well Annular Space Grouted? ☐ Yes ☒ No ☐ Unknown If Yes, To What Depth? _____ Feet			

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Granular Bentonite	Surface	6.0	10 lbs.	Dry

(8) Comments: This is a soil boring, not a well

(9) Name of Person or Firm Doing Sealing Work <u>Steve Gaffield / ST²</u>		(10) FOR DNR OR COUNTY USE ONLY	
Signature of Person Doing Work <u>Steve Gaffield</u>	Date Signed _____	Date Received/Inspected _____	District/County _____
Street or Route <u>3115 Watford Way</u>	Telephone Number <u>(608) 277-2840</u>	Reviewer/Inspector _____	
City, State, Zip Code <u>Madison WI 53713</u>		Follow-up Necessary _____	

WELL/DRILL/BOREHOLE OWNER

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location <u>CPT-20</u>	County <u>Dane</u>	Original Well Owner (If Known) <u>Wisconsin Air National Guard</u>	
SE 1/4 of NW 1/4 of Sec. <u>29</u> ; T. <u>8</u> N. R. <u>10</u> (If applicable)		Present Well Owner <u>as above</u>	
Gov't Lot _____ Grid Number _____		Street or Route <u>3110 Mitchell St.</u>	
Grid Location _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.		City, State, Zip Code <u>Madison WI 53704</u>	
Civil Town Name <u>as above</u>		Facility Well No. and/or Name (If Applicable) WI Unique Well No. _____	
Street Address of Well ↓		Reason For Abandonment <u>Prevent potential groundwater contamination</u>	
City, Village ↓		Date of Abandonment <u>11-7-94</u>	

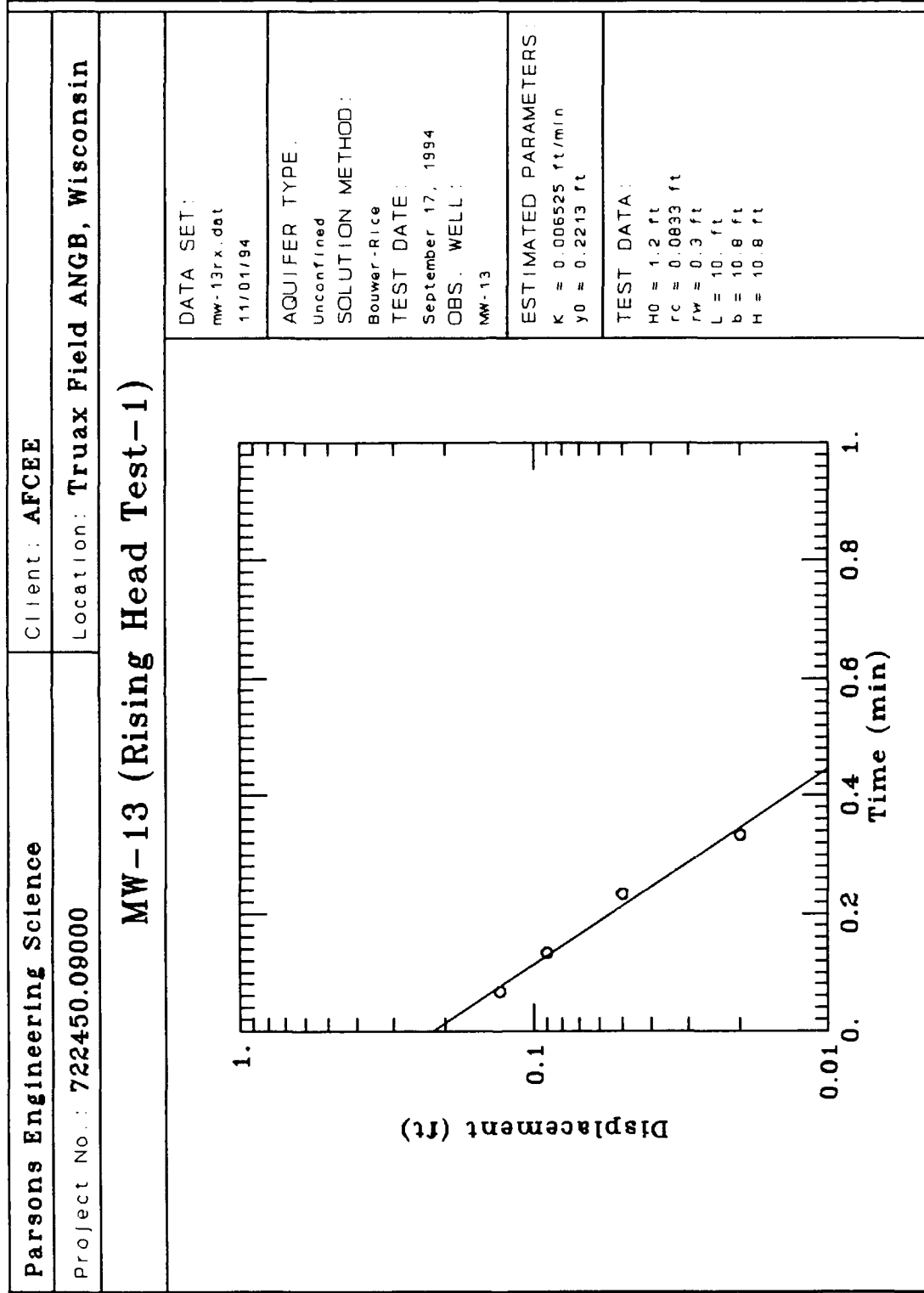
WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet) _____	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>11-7-94</u>		Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable Screen Removed? ☐ Yes ☐ No ☒ Not Applicable Casing Left in Place? ☐ Yes ☒ No If No, Explain <u>This is a soil boring</u>	
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☒ Borehole	Construction Report Available? ☐ Yes ☒ No	Was Casing Cut Off Below Surface? ☐ Yes ☒ No Did Sealing Material Rise to Surface? ☒ Yes ☐ No Did Material Settle After 24 Hours? ☐ Yes ☒ No If Yes, Was Hole Retopped? ☐ Yes ☐ No	
Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify) _____		(5) Required Method of Placing Sealing Material ☒ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☐ Dump Bailer ☐ Other (Explain) _____	
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock		(6) Sealing Materials For monitoring wells and monitoring well boreholes only ☐ Neat Cement Grout ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Bentonite Pellets ☐ Clay-Sand Slurry ☒ Granular Bentonite ☐ Bentonite-Sand Slurry ☐ Bentonite - Cement Grout ☐ Chipped Bentonite	
Total Well Depth (ft.) <u>7.5</u> Casing Diameter (ins.) <u>NA</u> (From ground surface) Casing Depth (ft.) <u>NA</u> Was Well Annular Space Grouted? ☐ Yes ☒ No ☐ Unknown If Yes, To What Depth? _____ Feet			

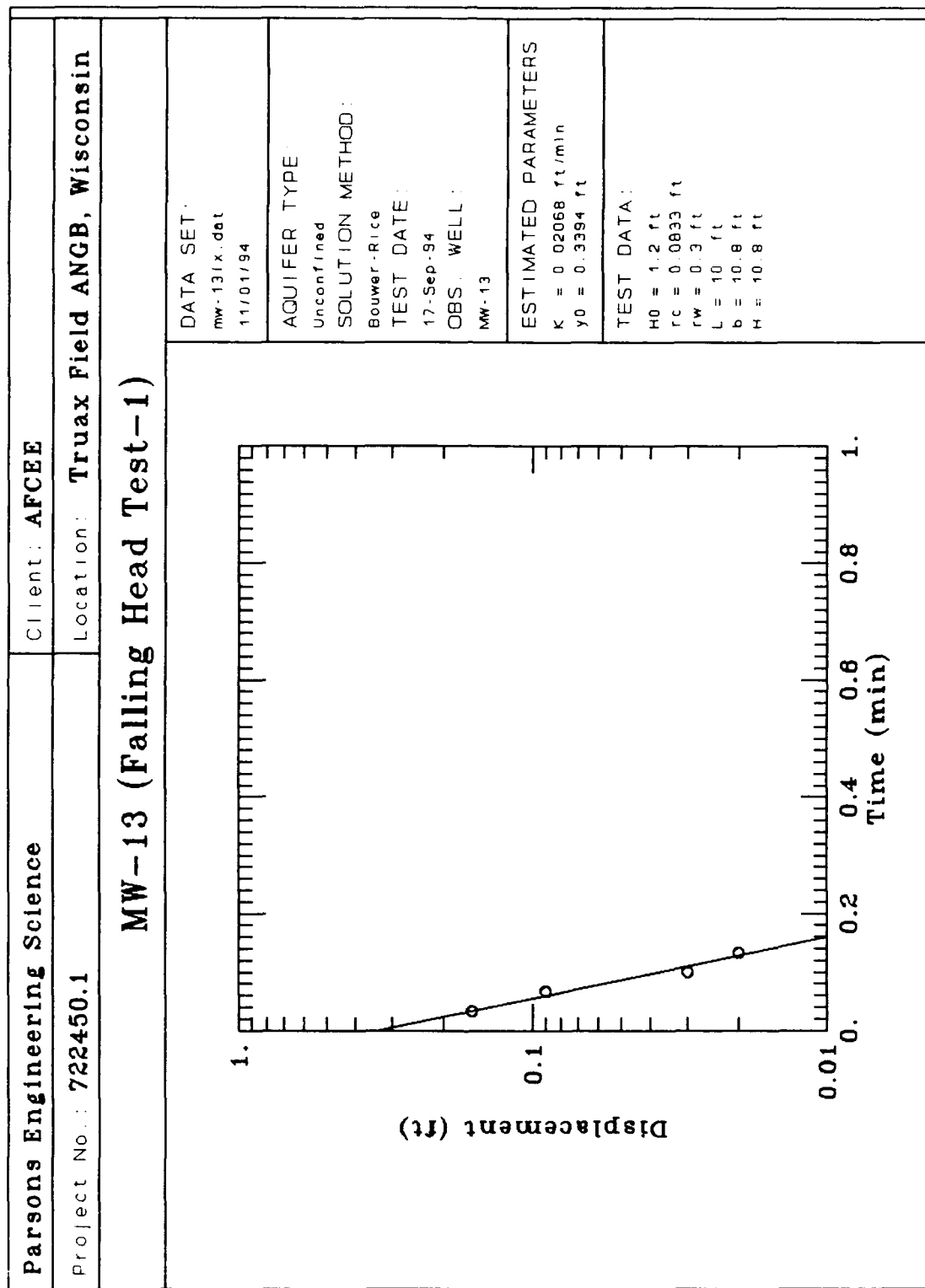
(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Granular Bentonite	Surface	7.5	15 lbs.	Dry

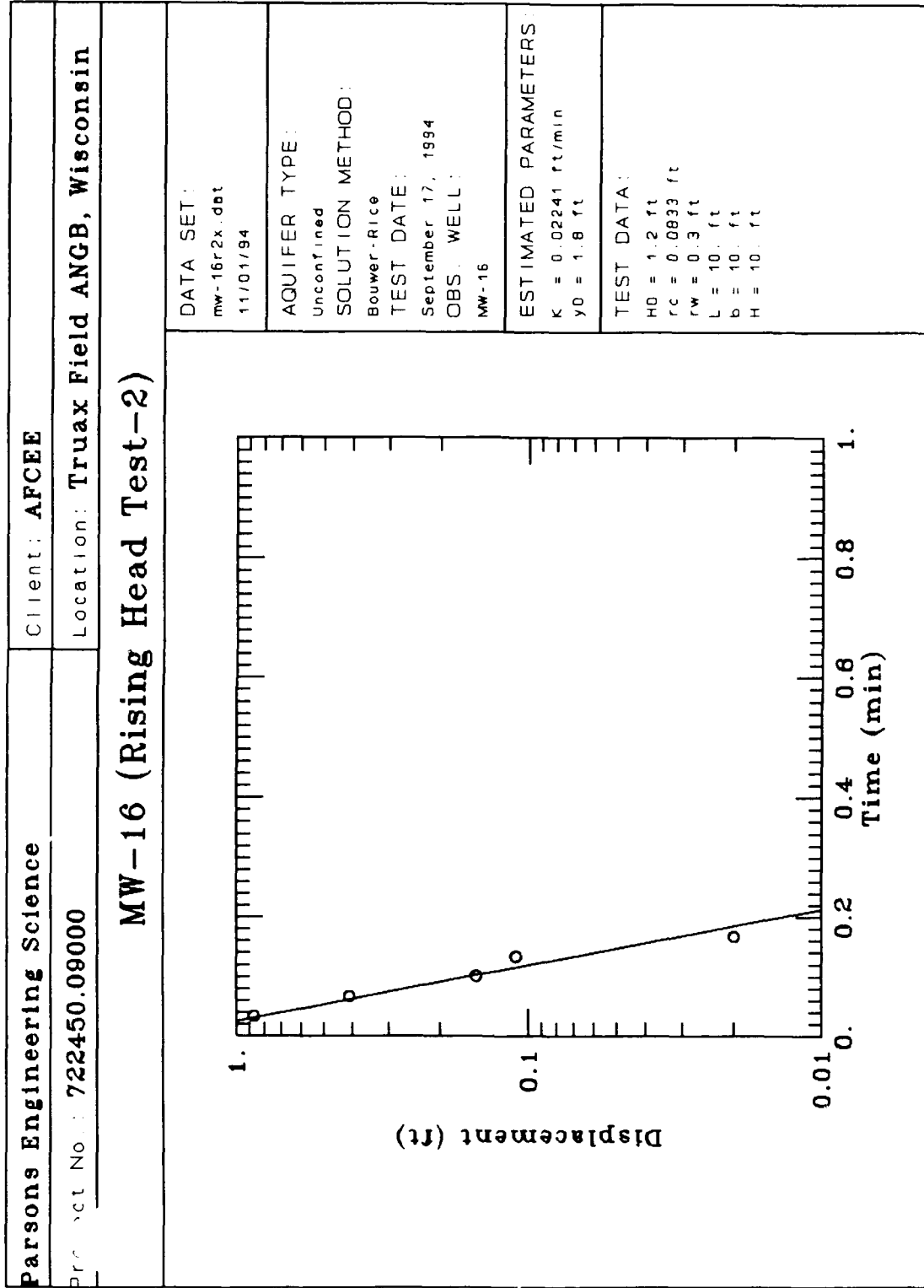
(8) Comments: This is a soil boring, not a well

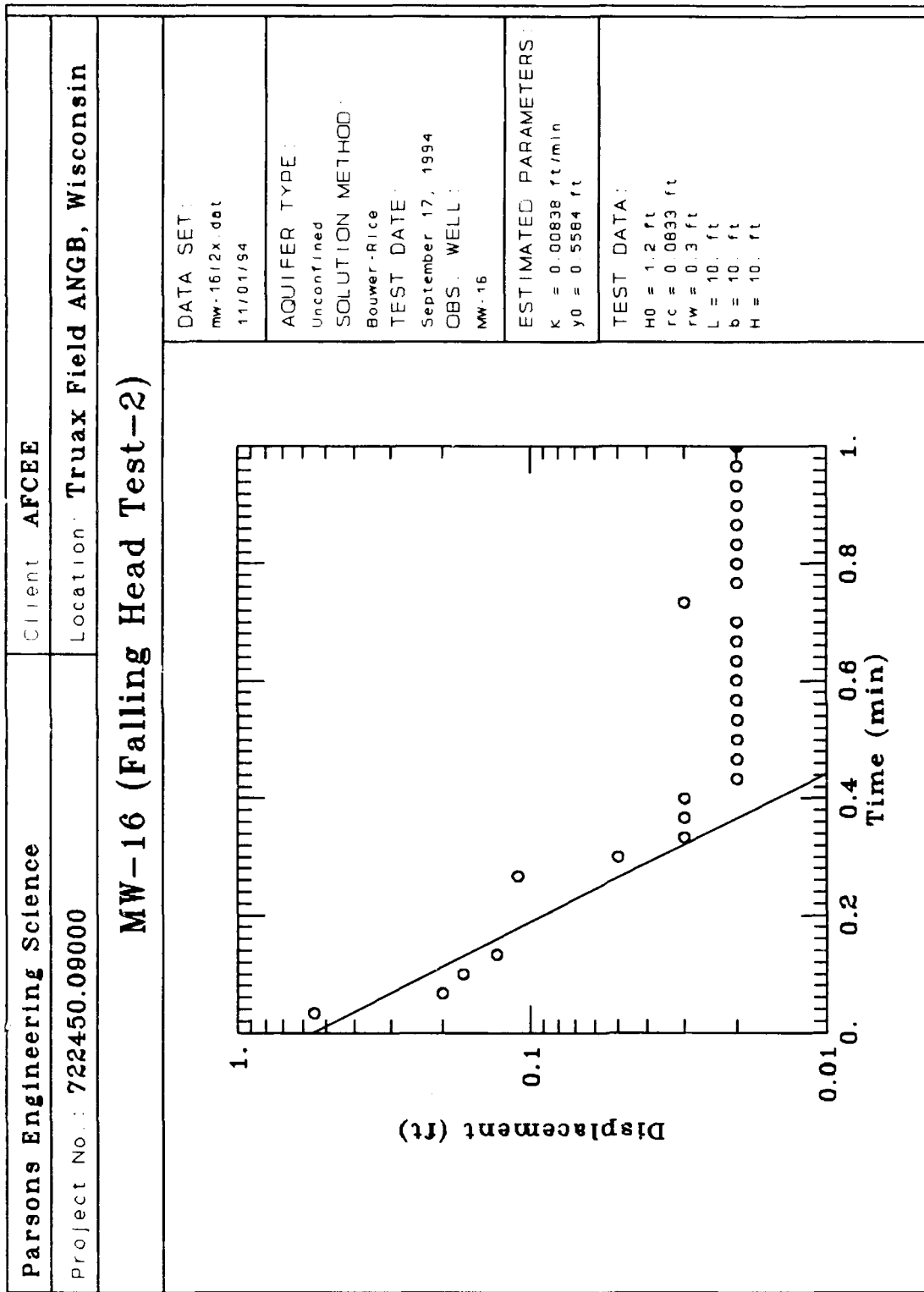
(9) Name of Person or Firm Doing Sealing Work <u>Steve Gaffield</u>		(10) FOR DNR OR COUNTY USE ONLY	
Signature of Person Doing Work <u>Steve Gaffield</u>	Date Signed <u>BT²</u>	Date Received/Inspected	District/County
Street or Route <u>3118 Watford Way</u>	Telephone Number <u>(608) 277-2840</u>	Reviewer/Inspector	
City, State, Zip Code <u>Madison WI 53713</u>		Follow-up Necessary	

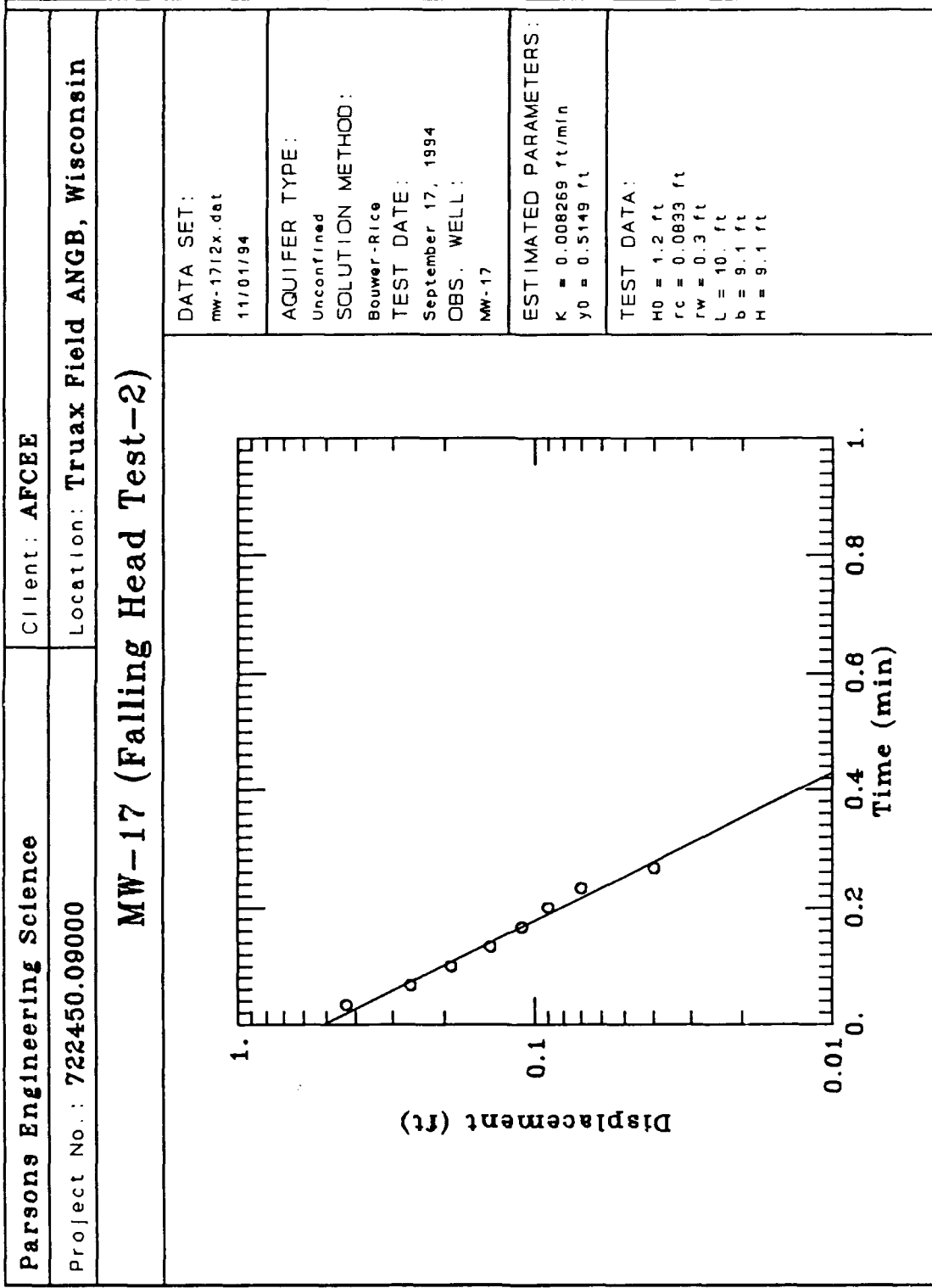
WELL/DRILL/BOREHOLE OWNER











APPENDIX B

LABORATORY ANALYTICAL DATA



November 7, 1994

MS GAIL SAXTON
ENGINEERING SCIENCE INC
1700 BROADWAY STE 900
DENVER CO 80290

Data Report : 94-3495, 94-3516,
94-3542, 94-3553
Client Project : Madison ANG

Dear Ms. Saxton:

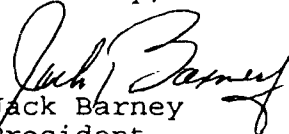
Enclosed are the analytical results for the samples shown in the Sample Log Sheet. The enclosed data have been reviewed for quality assurance. If you have any questions concerning the reported information, please contact Mark Mensik, Project Manager, or me.

Please Note: Samples will be retained in accordance with the terms of the subcontract.

The invoice for this work will be mailed to your Accounts Payable department shortly.

Thank you for using the services of Evergreen Analytical.

Sincerely,


Jack Barney
President

TM



Evergreen

CASE NARRATIVE

Evergreen Analytical Projects: 94-3495, 94-3516, 94-3542, 94-3553

Engineering Science, Inc. (ES) Project: Madison ANG

Subcontract Number: 722450.SC02

Sample Receipt

Between September 14 and September 17, 1994, soil and groundwater samples were received at Evergreen Analytical Laboratory (EAL) for analysis under the subcontract referenced above. Refer to the EAL Check-in Record for specific information regarding the condition of samples upon receipt at EAL. Refer to the EAL Sample Log Sheet for specific log-in information and cross-reference of EAL and ES sample identifications.

The sample identified as CPT-20 on the chain-of-custody for samples taken on September 16, 1994 and received at EAL on September 17, 1994 was identified as CPT-20S on the container labels. The identification CPT-20 was used on all hard copy and electronic reports.

Missed Holding Times

The five water and six soil samples sampled on September 16, 1994 and received at EAL on September 17, 1994 were not analyzed within contract required holding times for BTEX/TMB, total volatile hydrocarbons and total extractable hydrocarbons. These samples were logged-in under EAL project number 94-3553. The samples are being re-sampled and will be re-analyzed for the aforementioned analytes under an agreement between EAL and ES dated October 31, 1994. All other analytes were analyzed within contract required holding times.

Data Package

All data are reported in one comprehensive package that is segregated based on EAL project number. Each EAL project represents a group of samples received on a given day, or in some instances, several days. The EAL Sample Log Sheet summarizes the samples represented in each EAL project.

A separate invoice for each EAL project number will be generated.

Quality assurance data may overlap from one EAL project to another. Matrix spike/matrix spike duplicate (MS/MSD) samples were analyzed and are included. Laboratory control samples were analyzed when required and also are included in the data package.

BTEX and Trimethylbenzenes (TMB)

Laboratory control sample LCS091794 analyzed on 9/17/94 exhibited low recoveries for benzene and toluene, each were 1 ug/L below the lower

control limit. The MS/MSD data associated with this LCS were acceptable. The low benzene and toluene recoveries do not appear to affect the data, thus none of the associated samples were reanalyzed or qualified.

TMBs were not requested on the chain-of-custody for the soil samples, however, they were inadvertently included on the hard copy data reports. Gail Saxton of Engineering Science was informed of this and stated that this would not create a problem and requested that the TMBs remain on the hard copy reports. The TMB results are not included on the disk deliverables.

Chlorobenzene was detected in some samples, some at significant levels. Chlorobenzene was not reported on the hard copy reports nor was it requested as an analyte of interest on the chains-of-custody.

Some samples may have displayed high surrogate recoveries, but were not reanalyzed. The causes for high surrogates are explained below:

1. Increased injection of surrogate.
2. Co-Elution with peaks near the retention time of the surrogate peak.
3. Increased sensitivity of initial runs.

The first two reasons above are self explanatory. The third requires elaboration as follows:

Increased sensitivity of initial runs is caused by the lamp in the photoionization detector. When a clean lamp is put into the detector the first runs using the lamp are more sensitive to any compound found in the sample. As more samples are run using the lamp, the lamp becomes clouded (dirty), decreasing its sensitivity. Likewise, the first runs of each day will be more sensitive than later runs. Since blanks are generally run early in the day, they have a tendency, along with other samples run early in the day, to exhibit high surrogate recoveries.

Total Extractable Hydrocarbons (TEH)

There were no MS/MSD samples analyzed for water matrix samples due insufficient sample volume.

There are no reported MS/MSD results for soil matrix samples due to the fact that the sample scheduled for spiking was with the group of missed holding times and thus is not available.

Total Volatile Hydrocarbons (TVH)

There were no quality control anomalies to report.

Methane

Methane was analyzed using method RSKSOP-175 rather than RSKSOP-147. This method was supplied by Joe Fernando of MITRE Corporation during the

recent audit he conducted on behalf of AFCEE.

There were no quality control anomalies to report.

Total Organic Carbon in Soil, Dissolved Organic Carbon in Water

Total organic carbon (TOC) in soil and dissolved organic carbon (DOC) in water were analyzed by Huffman Laboratories of Golden, Colorado. TOC was determined by analyzing for total carbon (TC) and inorganic (carbonate) carbon (CC), the difference is then calculated and reported as TOC. The reports from Huffman are included.

The TOC in soil results reported by Huffman are not adjusted for moisture content. The results on the disk deliverables are adjusted for moisture content, however. All TOC in soil results are reported on a percent basis.

The original QC data for the DOC analyses are in the data package with EAL project 94-3495. A photocopy of the report is in the data package with project 94-3516. The TOC results included with the DOC results are from the Ellsworth AFB project under subcontract 725520.SC03.

Anions

Chloride, sulfate, nitrite as N, and nitrate as N were analyzed by ion chromatography, EPA Method 300.0.

There were no quality control anomalies to report.

Alkalinity

There were no quality control anomalies to report.

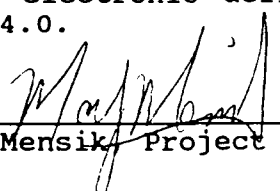
Disk Deliverables

The disk deliverables are also included with the hard copy data package.

The total xylenes results on the hard copy and the disk deliverable are reported using two significant figures. The disk deliverable also includes results for m/p-xylene and o-xylene that are not reported on the hard copy. These results are reported using three significant figures in some instances.

A hardcopy of each spreadsheet included on the diskette are included. The name for each file is located in the top left corner on the first page of each spreadsheet printout.

The electronic deliverables are reported on Microsoft Excel version 5.0. Previous electronic deliverables were reported using Microsoft Excel version 4.0.



Mark J. Mensik, Project Manager

Evergreen Analytical Sample Log Sheet

Project # 94-3542

Date(s) Sampled: 09/15/94

Date Due: 09/20/94 BTEX
09/29/94 OTHERS

Date Received: 09/15/94

Holding Time(s): 09/23/94 W
09/29/94 S
Rush STANDARD

Client Project I.D. MADISON ANG

Client: Engineering Science, Inc.

Shipping Charges N/A

Address: 1700 Broadway
Denver, CO 80290

E.A. Cooler # 136

Airbill # FedEx 9581892983

Contact: Matt Swanson

Custody Seal Intact? n
Cooler x Bottles x
COC Present Y
Sample Tags Present? Y
Sample Tags Listed? Y
Sample(s) Sealed? Y

Client P.O. 722450.09020

Phone #308-831-8100 Fax #308-831-8208

Special Invoicing/Billing _____

Special Instructions _____

Lab ID #	Client ID#	Analysis	Mtx	Btl	Loc
X94605A/B	HP-CPT-3	BTEX,TMB	W	40V	2
X94606A/B	HP-CPT-11	"	W	40V	2
X94607A/B	WANG-CPT18-4.5	"	S	2WM	2
X94608A/B	CPT-17S	"	W	40V	2
X94609A/B	CPT-17D	"	W	40V	2
X94610A/B	WANG-CPT8-7.5	"	S	2WM	2
X94611A/B	CPT-18S	"	W	40V	2
X94612A/B	WANG-CPT2-7	"	S	2WM	2
X94613A/B	CPT-15S	"	W	40V	2
X94614A/B	WANG-CPT-11-6.5	"	S	2WM	2
X94615A/B	CPT-4D	"	W	40V	2
X94616A/B	FIELD BLANK	"	W	40V	2

R=Sample to be returned

ute GC/MS GC 4 Metals Wet Chem 1 SxPrep 1 Acctg 1

To

SxRec C Adm C QA/QC C Sales C File Orig

Page 1 of 3 Page(s)

Custodian/Date: JB 9/17

Lab	Client				
ID #	ID#	Analysis	Mtx	Btl	Loc
X94617A	TRIP BLANK	BTEX,TMB	W	40V	2
X94605C/D	HP-CPT-3	TVH	W	1LA	C2
X94606C/D	HP-CPT-11	"	W	1LA	C2
X94607C/D	WANG-CPT18-4.5	"	S	2WM	C2
X94608C/D	CPT-17S	"	W	1LA	C2
X94609C/D	CPT-17D	"	W	1LA	C2
X94610C/D	WANG-CPT8-7.5	"	S	2WM	C2
X94611C/D	CPT-18S	"	W	1LA	C2
X94612C/D	WANG-CPT2-7	"	S	2WM	C2
X94613C/D	CPT-15S	"	W	1LA	C2
X94614C/D	WANG-CPT-11-6.5	"	S	2WM	C2
X94615C/D	CPT-4D	"	W	1LA	C2
X94616C/D	FIELD BLANK	"	W	1LA	C2
X94617A	TRIP BLANK	"	W	1LA	C2
X94605J	HP-CPT-3	TEH	W	1LA	C2
X94606J	HP-CPT-11	"	W	1LA	C2
X94609J	CPT-17D	"	W	1LA	C2
X94613J	CPT-15S	"	W	1LA	C2
X94614J	WANG-CPT-11-6.5	"	S	2WM	C2
X94615J	CPT-4D	"	W	1LA	C2
X94605EFG	HP-CPT-3	METHANE	W	1LA	C2
X94606EFG	HP-CPT-11	"	W	1LA	C2
X94609EFG	CPT-17D	"	W	1LA	C2
X94611EFG	CPT-18S	"	W	1LA	C2
X94613EFG	CPT-15S	"	W	1LA	C2
X94614EFG	WANG-CPT-11-6.5	"	S	2WM	C2
X94615EFG	CPT-4D	"	W	1LA	C2
X94605K	HP-CPT-3	DISSOLVED ORGANIC CARBON	W	1LA	C2 OUT
X94605I	HP-CPT-3	ALKALINITY	W	1LA	C2
X94606I	HP-CPT-11	"	W	1LA	C2
X94609I	CPT-17D	"	W	1LA	C2
X94613I	CPT-15S	"	W	1LA	C2
X94615I	CPT-4D	"	W	1LA	C2
X94605H	HP-CPT-3	NITRATE,NITRITE,SULFATE,CHLORIDE	W	1LA	C2
X94606H	HP-CPT-11	"	W	1LA	C2

Lab	Client					
ID #	ID#	Analysis	Mtx	Btl	Loc	
4609H	CPT-17D	"	W	1LA	C2	
X94611H	CPT-18S	"	W	1LA	C2	
X94613H	CPT-15S	"	W	1LA	C2	
X94615H	CPT-4D	"	W	1LA	C2	
X94607H	WANG-CPT18-4.5	TOTAL ORGANIC CARBON	S	2WM	C2	OUT
X94612H	WANG-CPT2-7	"	S	2WM	C2	OUT

CHAIN OF CUSTODY RECORD / ANALYTICAL SERVICES REQUEST

Page 1 of 2

Evergreen Analytical Inc.

COMPANY Engineering - Science
 ADDRESS 1700 Broadway
 CITY Denver STATE CO ZIP 80290

4036 Youngfield
 Wheat Ridge, Colorado 80033
 (303) 425-6021
 FAX (303) 425-6854

COMPANY CONTACT (print) Matt Swanson
 PROJECT I.D. Madison AUG
 P.O. # 722450-09020

PHONE # 303-831-8100 FAX # 303-831-8208 FAX RESULTS Y / N TURNAROUND REQUIRED* 30 days
 *expedited turnaround subject to additional fees

Sampler Name: Sasha Heller
 (signature) Matt Swanson
 (print) Sasha Heller, Matt Swanson

Evergreen Analytical Cooler No. # 136

Sampler Name:			No. of Containers			MATRIX		ANALYSIS REQUESTED																		
[signature] Joshua Hoff, Matt Swanson																										
(print) Joshua Hoff, Matt Swanson																										
Evergreen Analytical Cooler No. #136																										
SAMPLE IDENTIFICATION	DATE SAMPLED	TIME	Water - Drinking/Discharge (Ground) (circle)	Soil Solid (circle)	Sludge/Slurry (circle)	Oil/Organic Liquid (circle)	Multiphase (identify phase to be analyzed)	TCLP VOA/BNA/Pest/Herb/Metals (circle)	VOA 8260/624/524.2 (circle)	BNA 8270/625 (circle)	Pesticides 8080/608 (circle)	Pest/PCBs 8080/608/508 (circle)	Herbicides 8150/515 (circle)	PCB 8080/PCB Screen (circle)	BTX 8020/602 (circle) MTBE (circle)	TPPH 418.1/Oil & Grease 413.1 (circle)	TVH 8015mod. (Gasoline)	TEH 8015mod. (Diesel)	Total Metals-DW / NPDES / SW846 (circle & list metals below)	Dissolved Metals - DW / SW846 (circle & list metals below)	Methane	Dissolved Organic Carbon	Alkalinity	Nitrate/Nitrite/Sulfate	Total Organic Carbon	
HP-CPT-3	9/15/94	8:00am	X																							
HP-CPT-11	9/15/94	9:30am	X																							
WANG-CPT18-4.5	9/15/94	9:30am	X																							
~~CPT-17S~~	~~9/15/94~~	~~10:00am~~	~~X~~	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>
CPT-17S	9/15/94	11:00am	X																							
CPT-17D	9/15/94	11:45am	X																							
WANG-CPT18-6.5	9/15/94	11:10	3	X																						
CPT-18S	9/15/94	12:45	8	X																						
WANG-CPT18-7	9/15/94	11:10	3	X																						
CPT-15S	9/15/94	15:20	10	X																						

Instructions:

all samples preserved on ice.

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time	Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
<u>Sasha Heller</u>	9/15/94 17:30	<u>FEDER</u>	9/15/94	<u>Matt Swanson</u>	9/15/94	<u>Matt Swanson</u>	9/15/94

Evergreen Analytical Sample Receipt/Check-in Record

Date & Time Rec'd: 11:30 9/16/94 Shipped Via: Fed Ex 9581552
(Airbill # if applicable)

Client : ES

Client Project ID(s): Madison Aug

EAL Project #(s): 94-3542 EAL Cooler(s): (Y) N

Cooler# 136

Ice packs (Y) N Y N Y N Y N Y N

Temperature °C 4

Y N N/A

1. Custody seal(s) present:

Seals on cooler intact

Seals on bottle intact

Seals on bottle intact (X)

2. Chain of Custody present:

(X)

3. Containers broken or leaking:

(Comment on COC if Y)

(X)

4. Containers labeled:

(X)

5. COC agrees w/ bottles received:

(Comment on COC if N)

(X)

6. COC agrees w/ labels:

(Comment on COC if N)

(X)

7. Headspace in VOA vials-waters only

(comment on COC if Y)

(X)

8. VOA samples preserved:

(X)

9. pH measured on metals, cyanide or phenolics*:

List discrepancies

*Non-EAL provided containers only, water samples only.

10. Metal samples present:

Total _____, Dissolved _____

D or PD to be filtered:

T,TR,D,PD to be Preserved:

(X)

11. Short holding times:

Specify parameters _____

12. Multi-phase sample(s) present:

(X)

13. COC signed w/ date/time:

(X)

Comments: _____

(Additional comments on back)

Custodian Signature/Date: Tim [Signature] 9/16/94

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: HP-CPT-3	Client Project No.	: Madison Ang
Lab Sample Number	: X94605	Lab Project No.	: 94-3542
Date Sampled	: 9/15/94	Dilution Factor	: 1.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/18/94	Matrix	: Water
Date Analyzed	: 9/19/94	Lab File No.	: BX2091814
		Method Blank No.	: MB091894

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	U	0.4
Toluene	108-88-3	U	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	U	0.4
1,3,5-trimethylbenzene	108-67-8	U	0.4
1,2,4-trimethylbenzene	95-63-6	U	0.4
1,2,3-trimethylbenzene	526-73-8	U	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:

a,a,a-Trifluorotoluene : 91%
QC Reporting Limits : 77%-116%

QUALIFIERS:

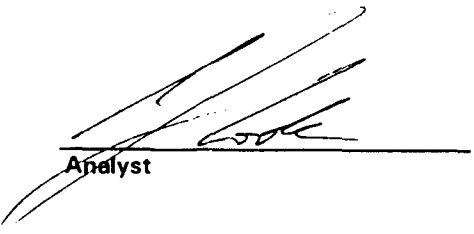
E = Extrapolated value

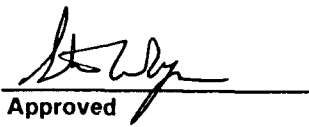
U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

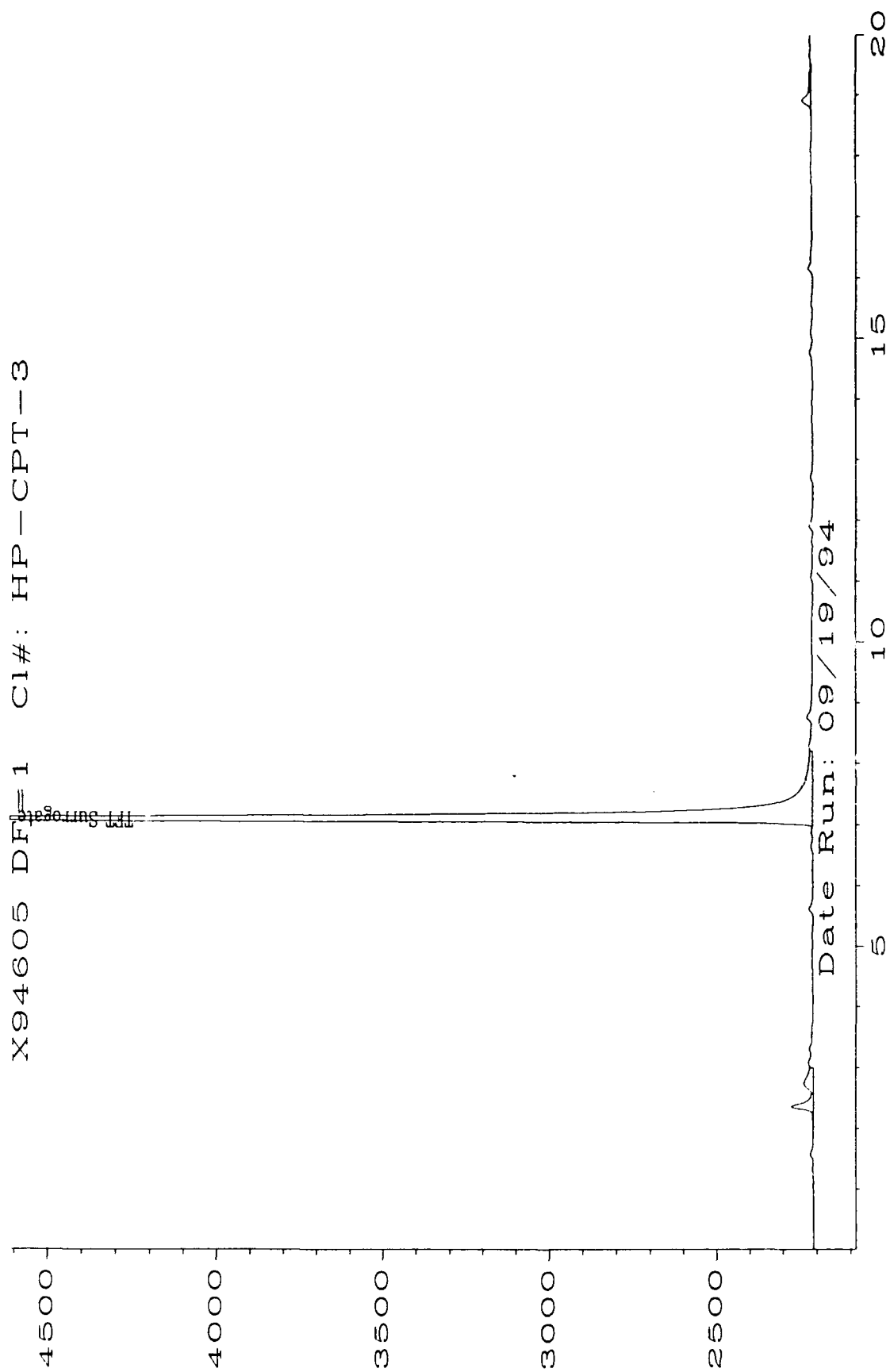
MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved

X94605 DF=1 Cl#: HP-CPT-3



Sig. 2 in C:\HPCHEM\2\DATA\BX20918\014R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: HP-CPT-11	Client Project No.	: Madison Ang
Lab Sample Number	: X94606	Lab Project No.	: 94-3542
Date Sampled	: 9/15/94	Dilution Factor	: 1.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/18/94	Matrix	: Water
Date Analyzed	: 9/19/94	Lab File No.	: BX2091815
		Method Blank No.	: MB091894

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	13	0.4
Toluene	108-88-3	5.4 B	0.4
Ethyl Benzene	100-41-4	*	*
Total Xylene (m/p + o)	1330-20-7	*	*
1,3,5-trimethylbenzene	108-67-8	*	*
1,2,4-trimethylbenzene	95-63-6	*	*
1,2,3-trimethylbenzene	526-73-8	*	*

Note: Total Xylene consist of three isomers, two of which co-elute.

The Xylene MDL is for a single peak.

* = See BX2092008 for noted values, df = 20, 09/20/94.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 123% Co-eluting peaks.

QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value

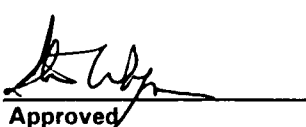
U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved

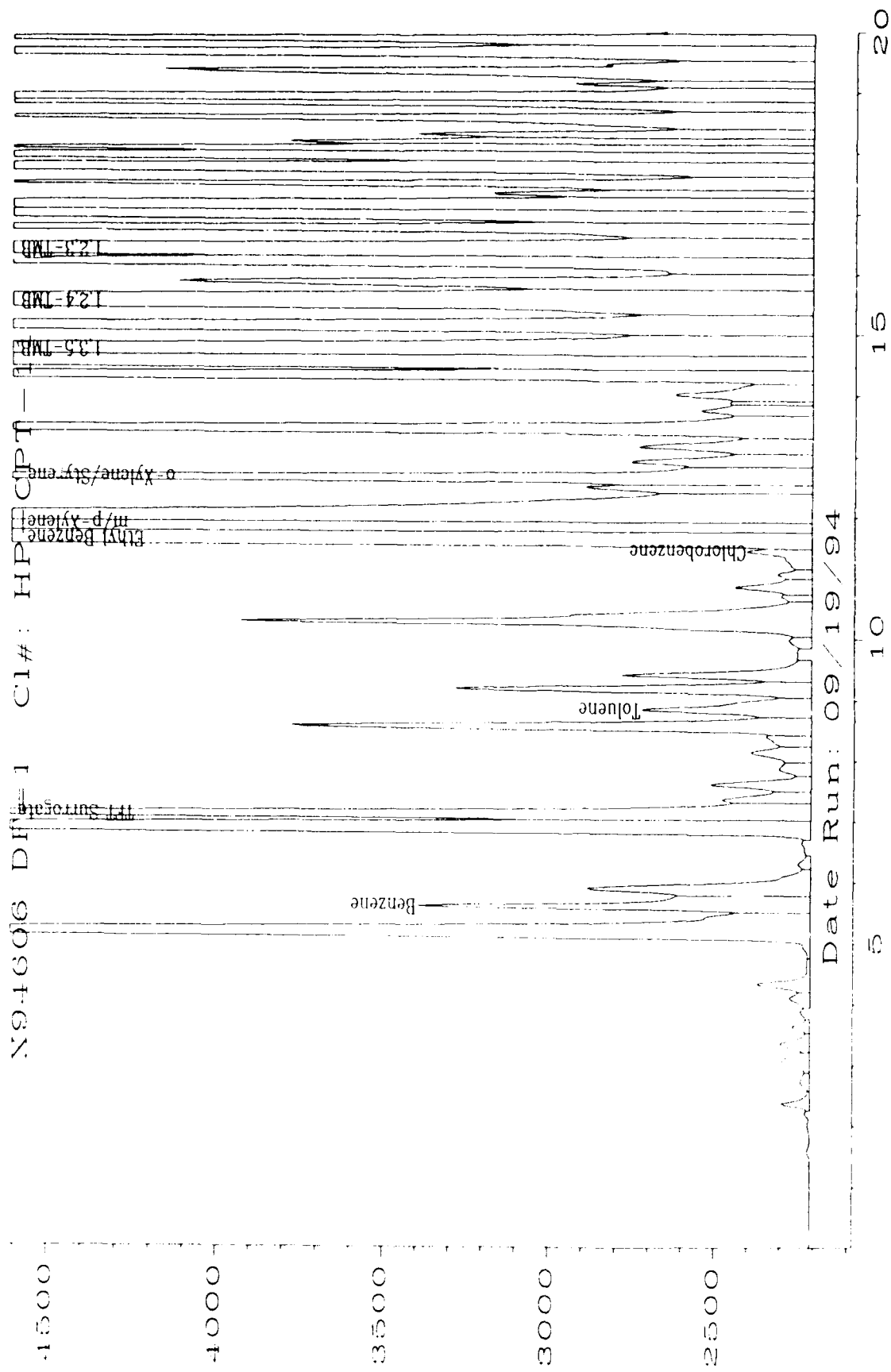


Fig. 12 in C:\HPCHEM\2\DATA\BX20918\015R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: HP-CPT-11	Client Project No.	: Madison Ang
Lab Sample Number	: X94606	Lab Project No.	: 94-3542
Date Sampled	: 9/15/94	Dilution Factor	: 20.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/20/94	Matrix	: Water
Date Analyzed	: 9/20/94	Lab File No.	: BX2092008
		Method Blank No.	: MB092094

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	*	*
Toluene	108-88-3	*	*
Ethyl Benzene	100-41-4	420	8
Total Xylene (m/p + o)	1330-20-7	1700	8
1,3,5-trimethylbenzene	108-67-8	270	8
1,2,4-trimethylbenzene	95-63-6	720	8
1,2,3-trimethylbenzene	526-73-8	340	8

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

* = See BX2091815 for noted values, df = 1, 09/19/94.

Surrogate Recovery:

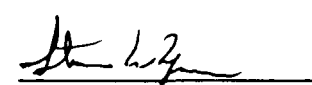
a,a,a,-Trifluorotoluene	: 107%
QC Reporting Limits	: 77%-116%

QUALIFIERS:

E = Extrapolated value
U = Compound analyzed for, but not detected.
B = Compound found in blank and sample. Compare blank and sample data.
MDL = Method Detection Limit.
NA = Not available.



Analyst



Approved

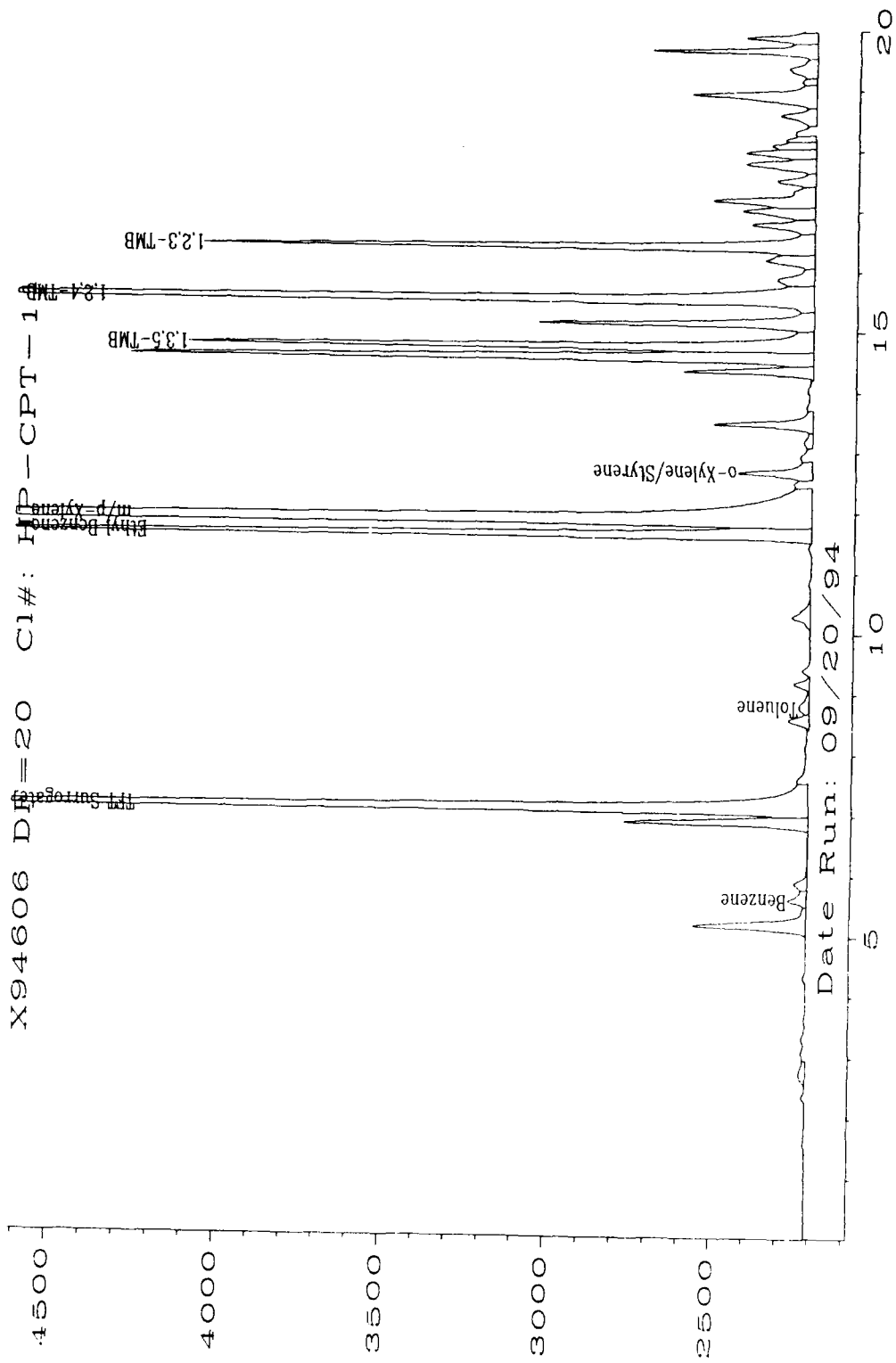


Fig. 2 in C:\HPCHEM\2\DATA\BX20920\008R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: WANG-CPT18-4.5	Client Project No.	: Madison Ang
Lab Sample Number	: X94607	Lab Project No.	: 94-3542
Date Sampled	: 9/15/94	Dilution Factor	: 1.00
Date Received	: 9/15/94	Method	: 8020
Date Extracted/Prepared	: 9/20/94	Matrix	: Soil
Date Analyzed	: 9/21/94	Lab File No.	: BX2092013
Methanol Extract?	: No	Method Blank No.	: MB092094

Compound Name	Cas Number	Sample Concentration** ug/kg	PQL ug/kg
Benzene	71-43-2	U	5.3
Toluene	78-38-3	0.7 BJ	5.3
Ethyl Benzene	100-41-4	U	5.3
Total Xylene (m/p + o)	1330-20-7	0.5 BJ	5.3
1,3,5-trimethylbenzene	108-67-8	U	5.3
1,2,4-trimethylbenzene	95-63-6	U	5.3
1,2,3-trimethylbenzene	526-73-8	U	5.3

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 87%
QC Reporting Limits : 55%-127%

QUALIFIERS:

** = All sample results & PQLs are reported on a dry weight basis.

E = Extrapolated value

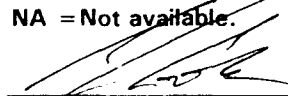
U = Compound analyzed for, but not detected.

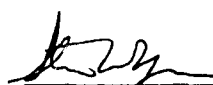
B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

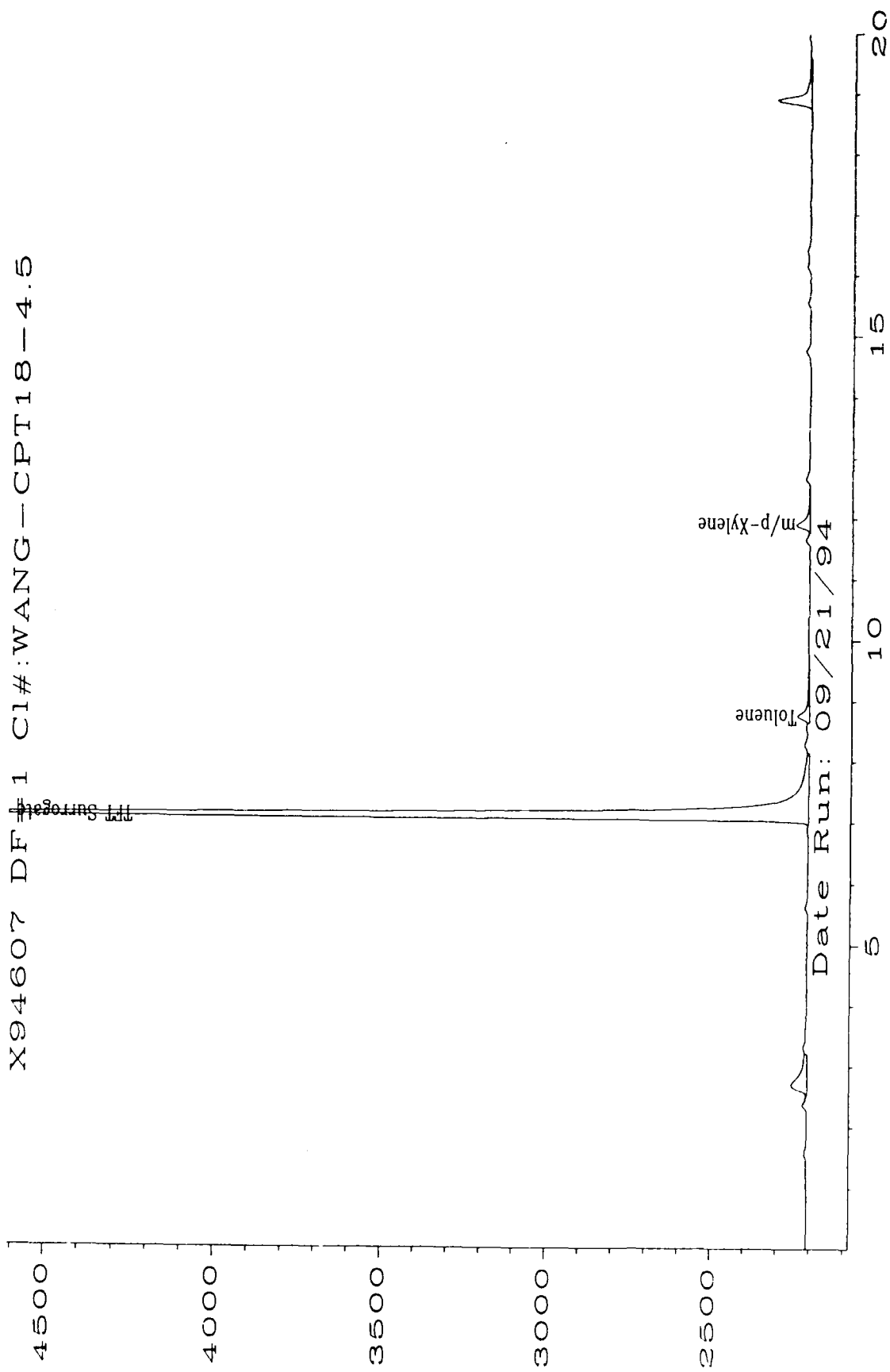
PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.


Analyst


Approved

X94607 DF#1 C1#:WANG-CPT18-4.5



Sig. 2 in C:\HPCHEM\2\DATA\BX20920\013R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: CPT-17S	Client Project No.	: Madison Ang
Lab Sample Number	: X94608	Lab Project No.	: 94-3542
Date Sampled	: 9/15/94	Dilution Factor	: 10.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/18/94	Matrix	: Water
Date Analyzed	: 9/19/94	Lab File No.	: BX2091816
		Method Blank No.	: MB091894

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	*	*
Toluene	108-88-3	30 B	4
Ethyl Benzene	100-41-4	780	4
Total Xylene (m/p + o)	1330-20-7	1500	4
1,3,5-trimethylbenzene	108-67-8	84	4
1,2,4-trimethylbenzene	95-63-6	350	4
1,2,3-trimethylbenzene	526-73-8	230	4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

* = See BX2092009 for noted values, df = 500, 09/22/94.

Surrogate Recovery:

a,a,a,-Trifluorotoluene	: 123%	Co-eluting peaks.
QC Reporting Limits	: 77%-116%	

QUALIFIERS:

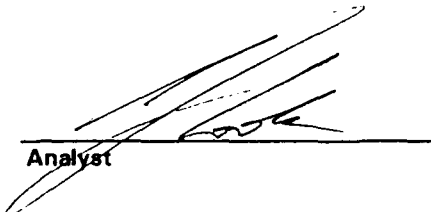
E = Extrapolated value

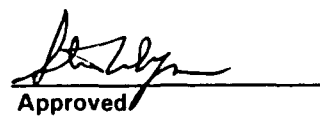
U = Compound analyzed for, but not detected.

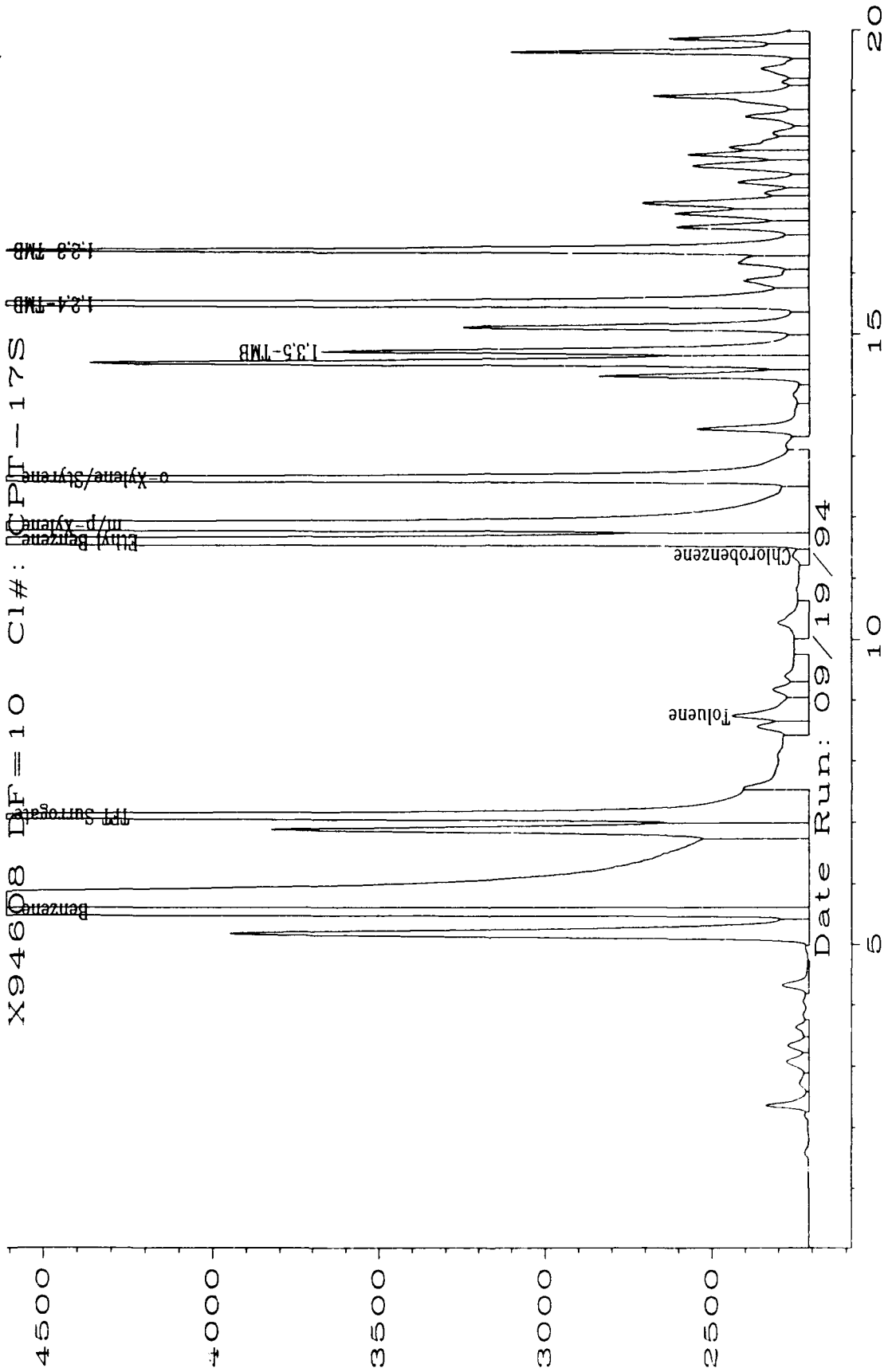
B = Compound found in blank and sample. Compare blank and sample data.

MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved



Sig. 2 in C:\HPCHEM\2\DATA\BX20918\O16R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: CPT-17S	Client Project No.	: Madison Ang
Lab Sample Number	: X94608	Lab Project No.	: 94-3542
Date Sampled	: 9/15/94	Dilution Factor	: 500.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/22/94	Matrix	: Water
Date Analyzed	: 9/22/94	Lab File No.	: BX2092209
		Method Blank No.	: MB092294

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	26000	200
Toluene	108-88-3	*	*
Ethyl Benzene	100-41-4	*	*
Total Xylene (m/p + o)	1330-20-7	*	*
1,3,5-trimethylbenzene	108-67-8	*	*
1,2,4-trimethylbenzene	95-63-6	*	*
1,2,3-trimethylbenzene	526-73-8	*	*

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

* = See BX2091816 for noted values, df = 10, 09/19/94.

Surrogate Recovery:

a,a,a,-Trifluorotoluene	: 89%
QC Reporting Limits	: 77%-116%

QUALIFIERS:

E = Extrapolated value

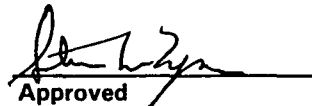
U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

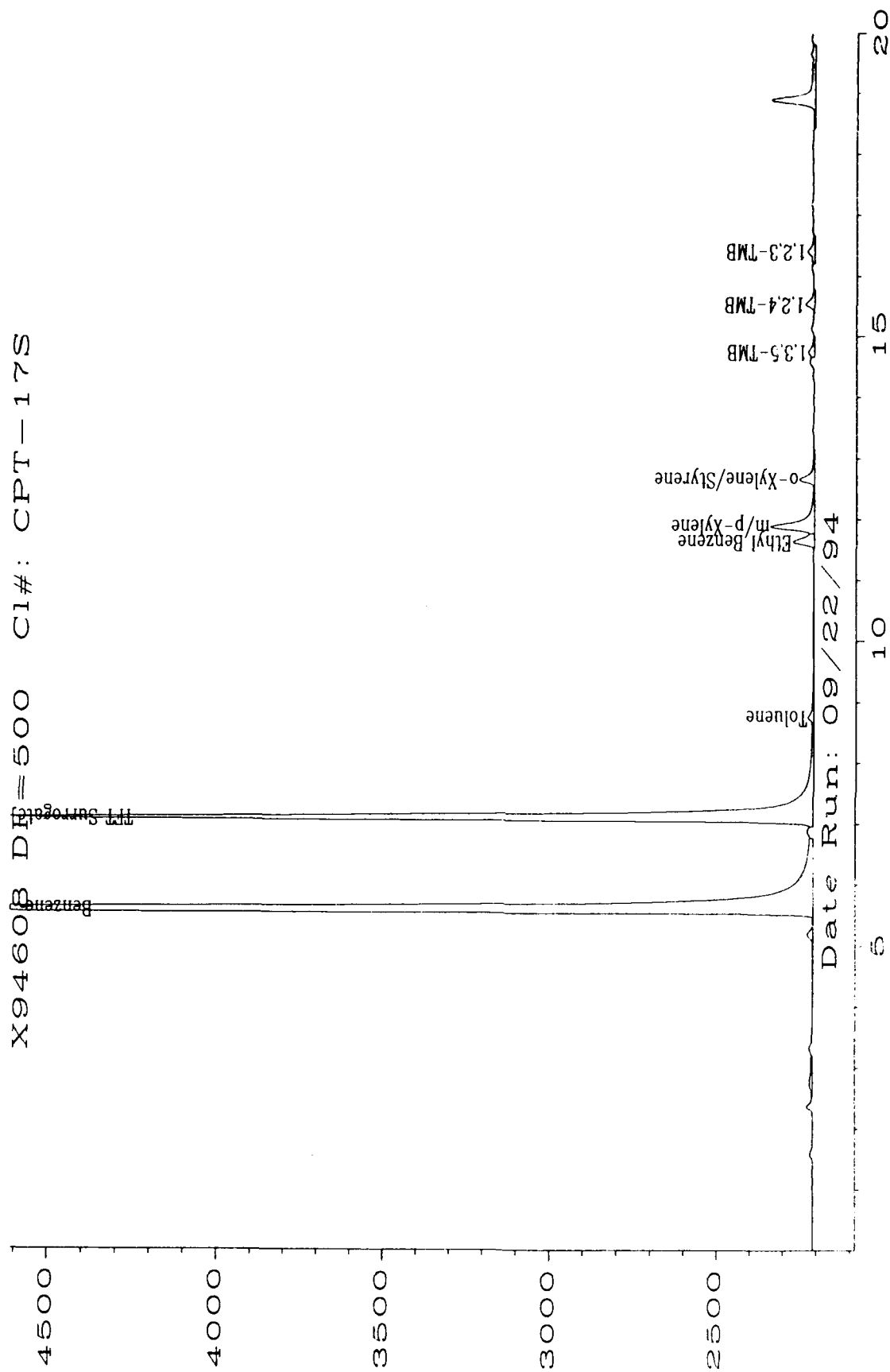
MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved

X94608 DF=500 Cl#: CPT-17S



Sig. 2 in C:\HPCHEM\2\DATA\BX2\ 2\0009R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: CPT-17D	Client Project No.	: Madison Ang
Lab Sample Number	: X94609	Lab Project No.	: 94-3542
Date Sampled	: 9/15/94	Dilution Factor	: 10.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/18/94	Matrix	: Water
Date Analyzed	: 9/19/94	Lab File No.	: BX2091817
		Method Blank No.	: MB091894

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	*	*
Toluene	108-88-3	5 B	4
Ethyl Benzene	100-41-4	360	4
Total Xylene (m/p + o)	1330-20-7	1000	4
1,3,5-trimethylbenzene	108-67-8	140	4
1,2,4-trimethylbenzene	95-63-6	570	4
1,2,3-trimethylbenzene	526-73-8	360	4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

* = See BX2091817 for noted values, df = 50, 09/20/94.

Surrogate Recovery:

a,a,a,-Trifluorotoluene	: 100%
QC Reporting Limits	: 77%-116%

QUALIFIERS:

E = Extrapolated value

U = Compound analyzed for, but not detected.

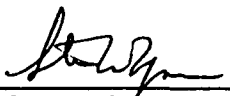
B = Compound found in blank and sample. Compare blank and sample data.

MDL = Method Detection Limit.

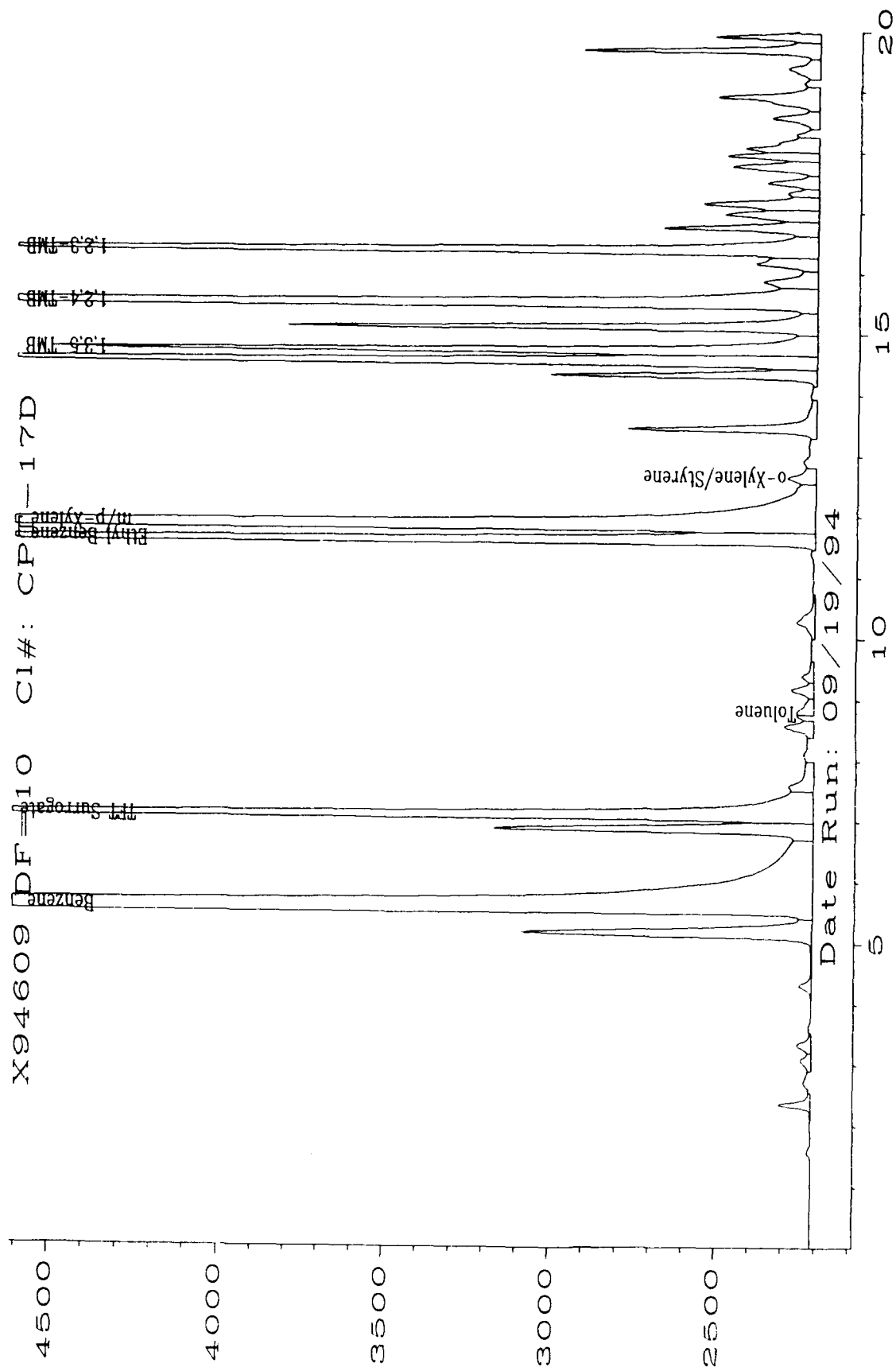
NA = Not available.



Analyst



Approved



Sig. 2 in C:\HPCHEM\2\DATA\BX20918\017R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: CPT-17D	Client Project No.	: Madison Ang
Lab Sample Number	: X94609	Lab Project No.	: 94-3542
Date Sampled	: 9/15/94	Dilution Factor	: 50.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/20/94	Matrix	: Water
Date Analyzed	: 9/20/94	Lab File No.	: BX2092010
		Method Blank No.	: MB092094

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	3800	20
Toluene	108-88-3	*	*
Ethyl Benzene	100-41-4	*	*
Total Xylene (m/p + o)	1330-20-7	*	*
1,3,5-trimethylbenzene	108-67-8	*	*
1,2,4-trimethylbenzene	95-63-6	*	*
1,2,3-trimethylbenzene	526-73-8	*	*

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

* = See BX2091817 for noted values, df = 10, 09/19/94.

Surrogate Recovery:

a,a,a,-Trifluorotoluene	: 107%
QC Reporting Limits	: 77%-116%

QUALIFIERS:

E = Extrapolated value

U = Compound analyzed for, but not detected.

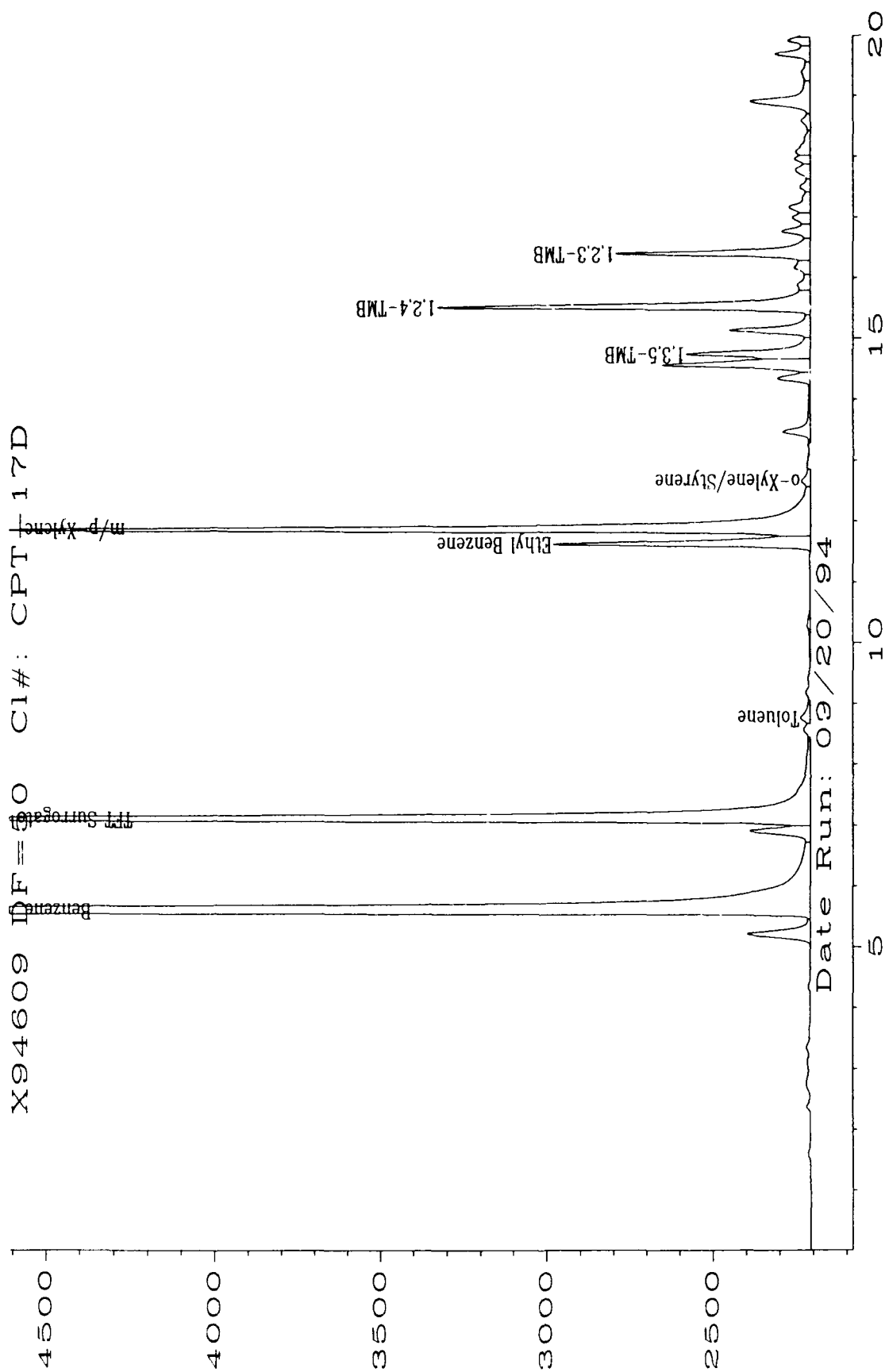
B = Compound found in blank and sample. Compare blank and sample data.

MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved



Sig. 2 in C:\HPCHEM\2\DATA\BX20920\010R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: WANG-CPT8-7.5	Client Project No.	: Madison Ang
Lab Sample Number	: X94610	Lab Project No.	: 94-3542
Date Sampled	: 9/15/94	Dilution Factor	: 125.00
Date Received	: 9/15/94	Method	: 8020
Date Extracted/Prepared	: 9/20/94	Matrix	: Soil
Date Analyzed	: 9/21/94	Lab File No.	: BX2092014
Methanol Extract?	: Yes	Method Blank No.	: MEB092094

Compound Name	Cas Number	Sample Concentration** ug/kg	PQL ug/kg
Benzene	71-43-2	760	550
Toluene	108-88-3	4500 B	550
Ethyl Benzene	100-41-4	19000	550
Total Xylene (m/p + o)	1330-20-7	*	*
1,3,5-trimethylbenzene	108-67-8	*	*
1,2,4-trimethylbenzene	95-63-6	*	*
1,2,3-trimethylbenzene	526-73-8	*	*

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

* = See BX2092211 for noted values, df = 1250, 09/22/94.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 114%
QC Reporting Limits : 55%-127%

QUALIFIERS:

** = All sample results & PQLs are reported on a dry weight basis.

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

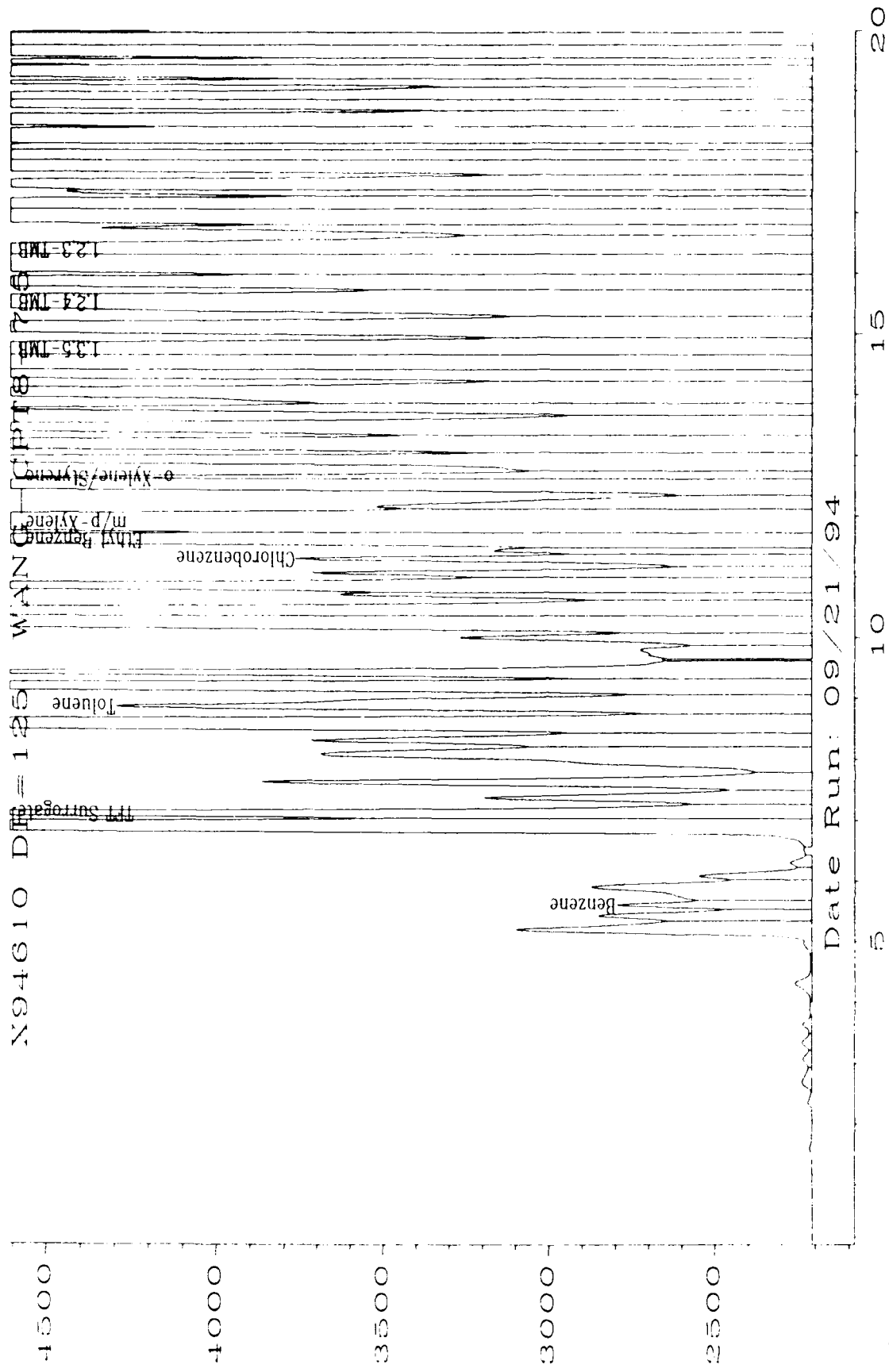
J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.

Analyst

Approved



Sig 12 in C:\HPCHEM\2\DATA\BX20920\014R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: WANG-CPT8-7.5	Client Project No.	: Madison Ang
Lab Sample Number	: X94610	Lab Project No.	: 94-3542
Date Sampled	: 9/15/94	Dilution Factor	: 1250.00
Date Received	: 9/15/94	Method	: 8020
Date Extracted/Prepared	: 9/22/94	Matrix	: Soil
Date Analyzed	: 9/22/94	Lab File No.	: BX2092211
Methanol Extract?	: Yes	Method Blank No.	: MEB092094

Compound Name	Cas Number	Sample Concentration** ug/kg	PQL ug/kg
Benzene	71-43-2	.	.
Toluene	108-88-3	.	.
Ethyl Benzene	100-41-4	.	.
Total Xylene (m/p + o)	1330-20-7	89000 B	5500
1,3,5-trimethylbenzene	108-67-8	48000	5500
1,2,4-trimethylbenzene	95-63-6	85000	5500
1,2,3-trimethylbenzene	526-73-8	51000	5500

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

* = See BX2092014 for noted values, df = 125, 09/21/94.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 100%
QC Reporting Limits : 55%-127%

QUALIFIERS:

** = All sample results & PQLs are reported on a dry weight basis.

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

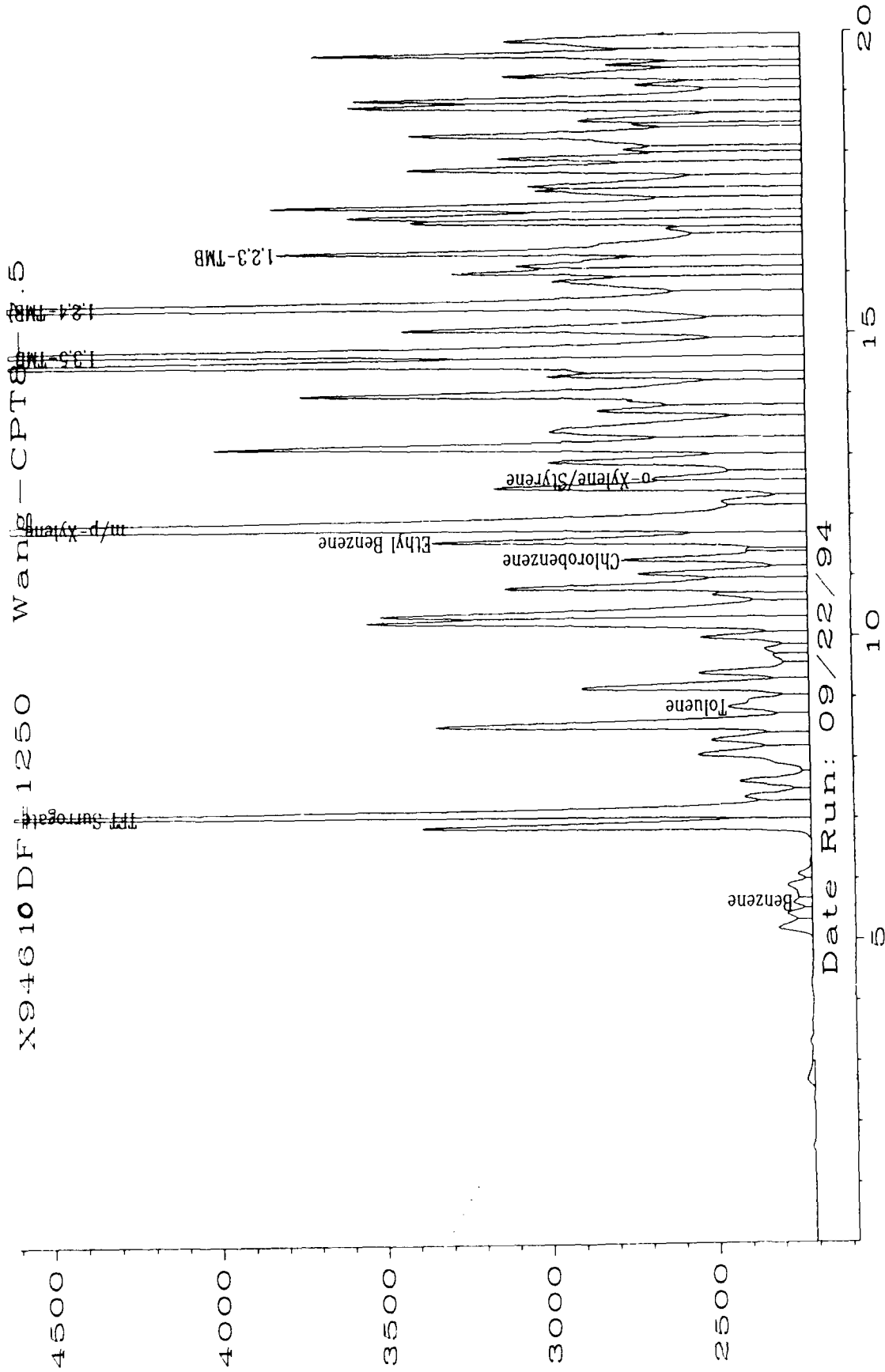
J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.

Analyst

Approved



Sig. 2 in C:\HPCHEM\2\DATA\BX20922\011R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: CPT-18S	Client Project No.	: Madison Ang
Lab Sample Number	: X94611	Lab Project No.	: 94-3542
Date Sampled	: 9/15/94	Dilution Factor	: 1.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/18/94	Matrix	: Water
Date Analyzed	: 9/19/94	Lab File No.	: BX2091819
		Method Blank No.	: MB091894

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	83	0.4
Toluene	108-88-3	0.4 B	0.4
Ethyl Benzene	100-41-4	3.3	0.4
Total Xylene (m/p + o)	1330-20-7	9.9	0.4
1,3,5-trimethylbenzene	108-67-8	1.6	0.4
1,2,4-trimethylbenzene	95-63-6	4.6	0.4
1,2,3-trimethylbenzene	526-73-8	1.7	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:

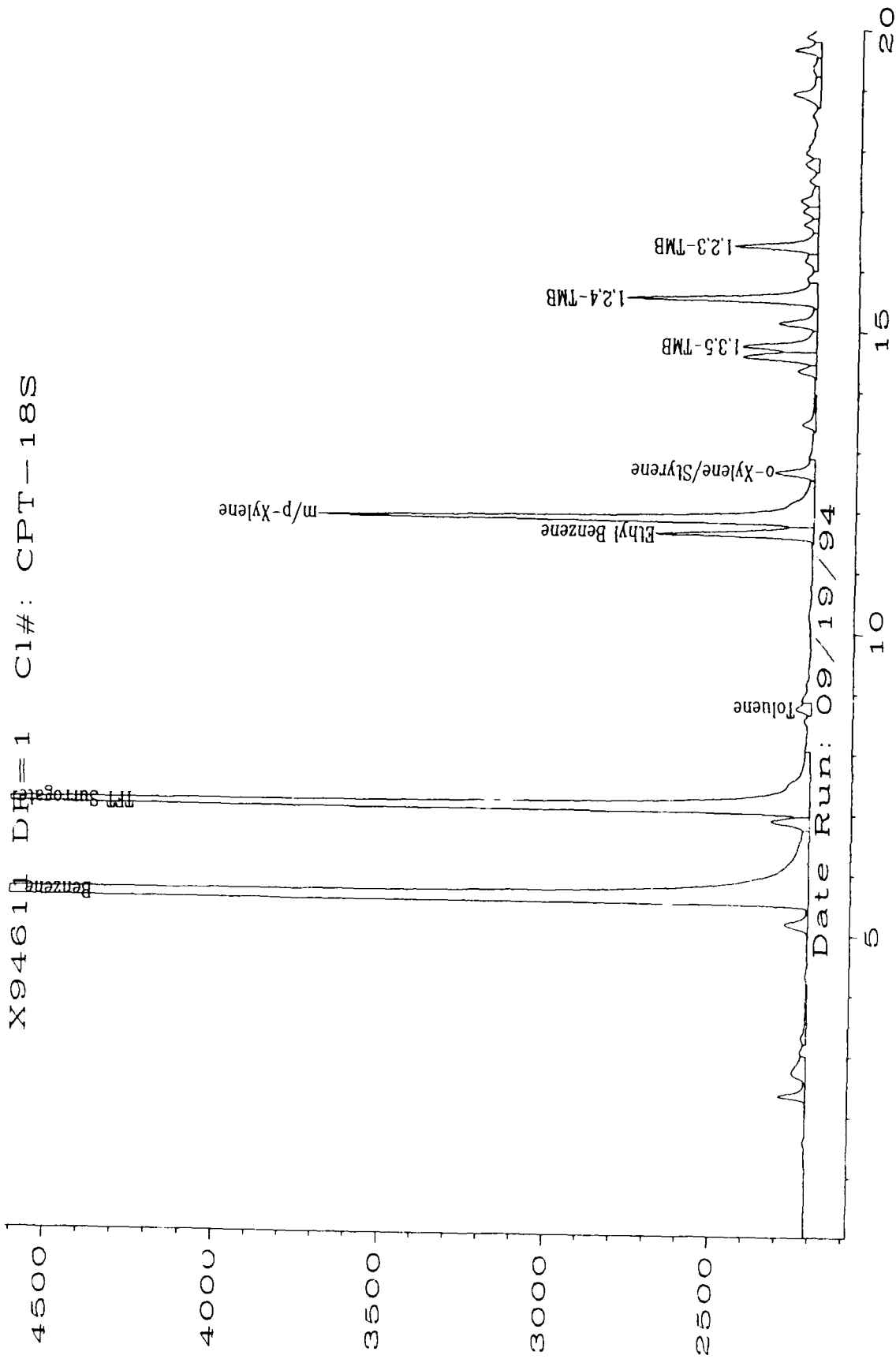
a,a,a,-Trifluorotoluene : 100%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value
U = Compound analyzed for, but not detected.
B = Compound found in blank and sample. Compare blank and sample data.
MDL = Method Detection Limit.
NA = Not available.

Analyst

Approved



Sig. 2 in C:\HPCHEM\2\DATA\BX20918\019R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: WANG-CPT2-7	Client Project No.	: Madison Ang
Lab Sample Number	: X94612	Lab Project No.	: 94-3542
Date Sampled	: 9/15/94	Dilution Factor	: 1.00
Date Received	: 9/15/94	Method	: 8020
Date Extracted/Prepared	: 9/22/94	Matrix	: Soil
Date Analyzed	: 9/22/94	Lab File No.	: BX2092210
Methanol Extract?	: No	Method Blank No.	: MB092294

Compound Name	Cas Number	Sample Concentration**		PQL
		ug/kg		ug/kg
Benzene	71-43-2	U		4.7
Toluene	108-88-3	0.7	J	4.7
Ethyl Benzene	100-41-4	U		4.7
Total Xylene (m/p + o)	1330-20-7	1.0	J	4.7
1,3,5-trimethylbenzene	108-67-8	U		4.7
1,2,4-trimethylbenzene	95-63-6	U		4.7
1,2,3-trimethylbenzene	526-73-8	U		4.7

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 98%
QC Reporting Limits : 55%-127%

QUALIFIERS:

** = All sample results & PQLs are reported on a dry weight basis.

E = Extrapolated value

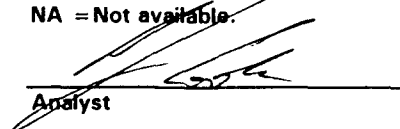
U = Compound analyzed for, but not detected.

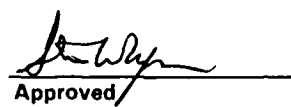
B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

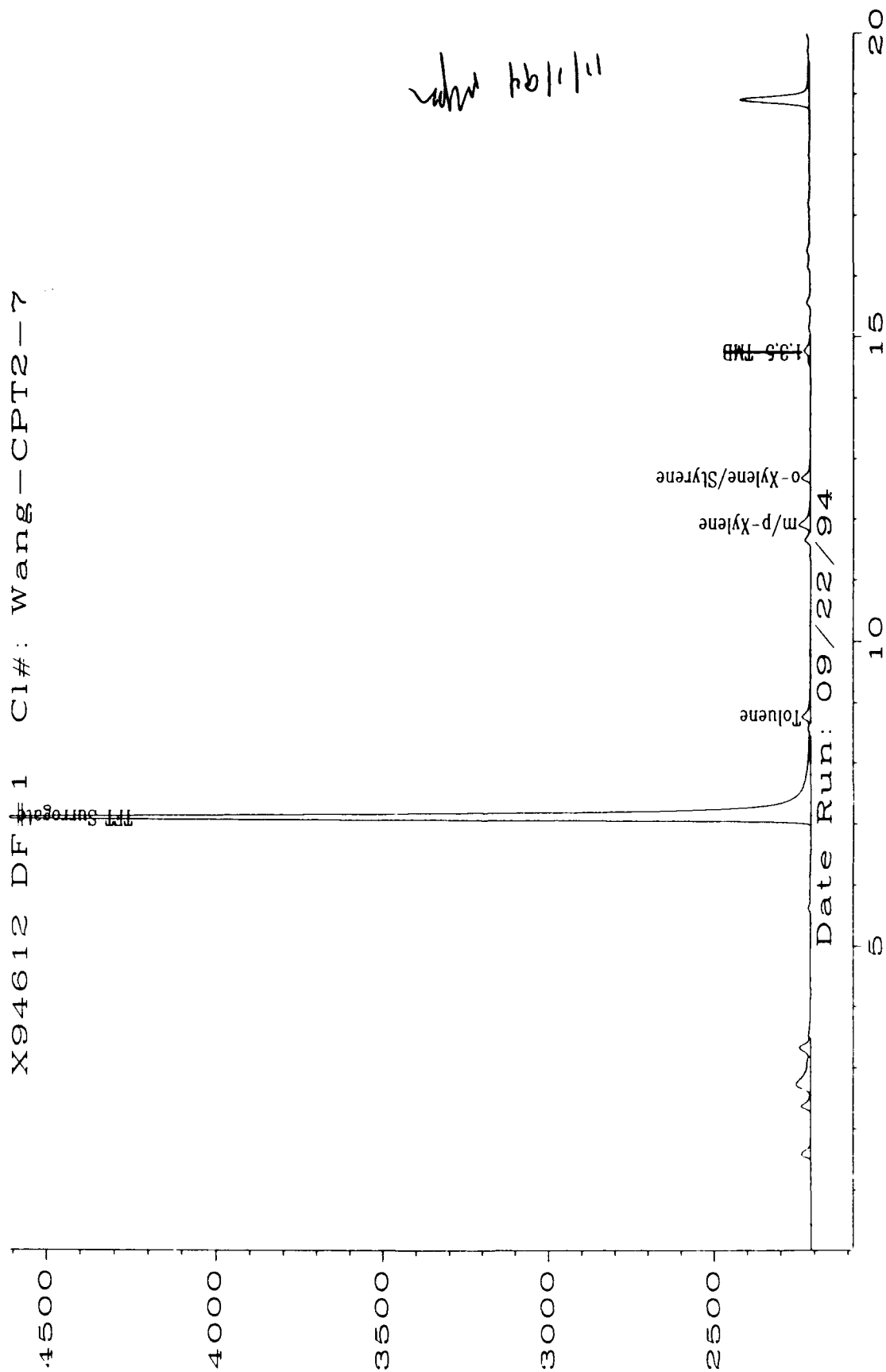
PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.


Analyst


Approved

X94612 DF#1 Cl#: Wang-CPT2-7



Sig. 2 in C:\HPCHEM\2\DATA\BX20922\010R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: CPT-15S	Client Project No.	: Madison Ang
Lab Sample Number	: X94613	Lab Project No.	: 94-3542
Date Sampled	: 9/15/94	Dilution Factor	: 1.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/18/94	Matrix	: Water
Date Analyzed	: 9/19/94	Lab File No.	: BX2091820
		Method Blank No.	: MB091894

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	14	0.4
Toluene	108-88-3	U	0.4
Ethyl Benzene	100-41-4	1.1	0.4
Total Xylene (m/p + o)	1330-20-7	3.5	0.4
1,3,5-trimethylbenzene	108-67-8	0.6	0.4
1,2,4-trimethylbenzene	95-63-6	1.4	0.4
1,2,3-trimethylbenzene	526-73-8	0.6	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:
a,a,a,-Trifluorotoluene : 100%
QC Reporting Limits : 77%-116%

QUALIFIERS:

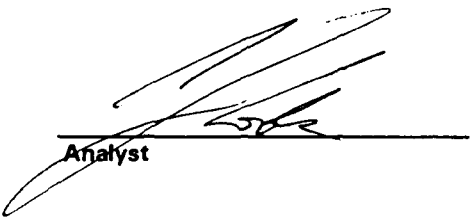
E = Extrapolated value

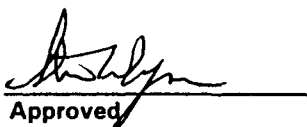
U = Compound analyzed for, but not detected.

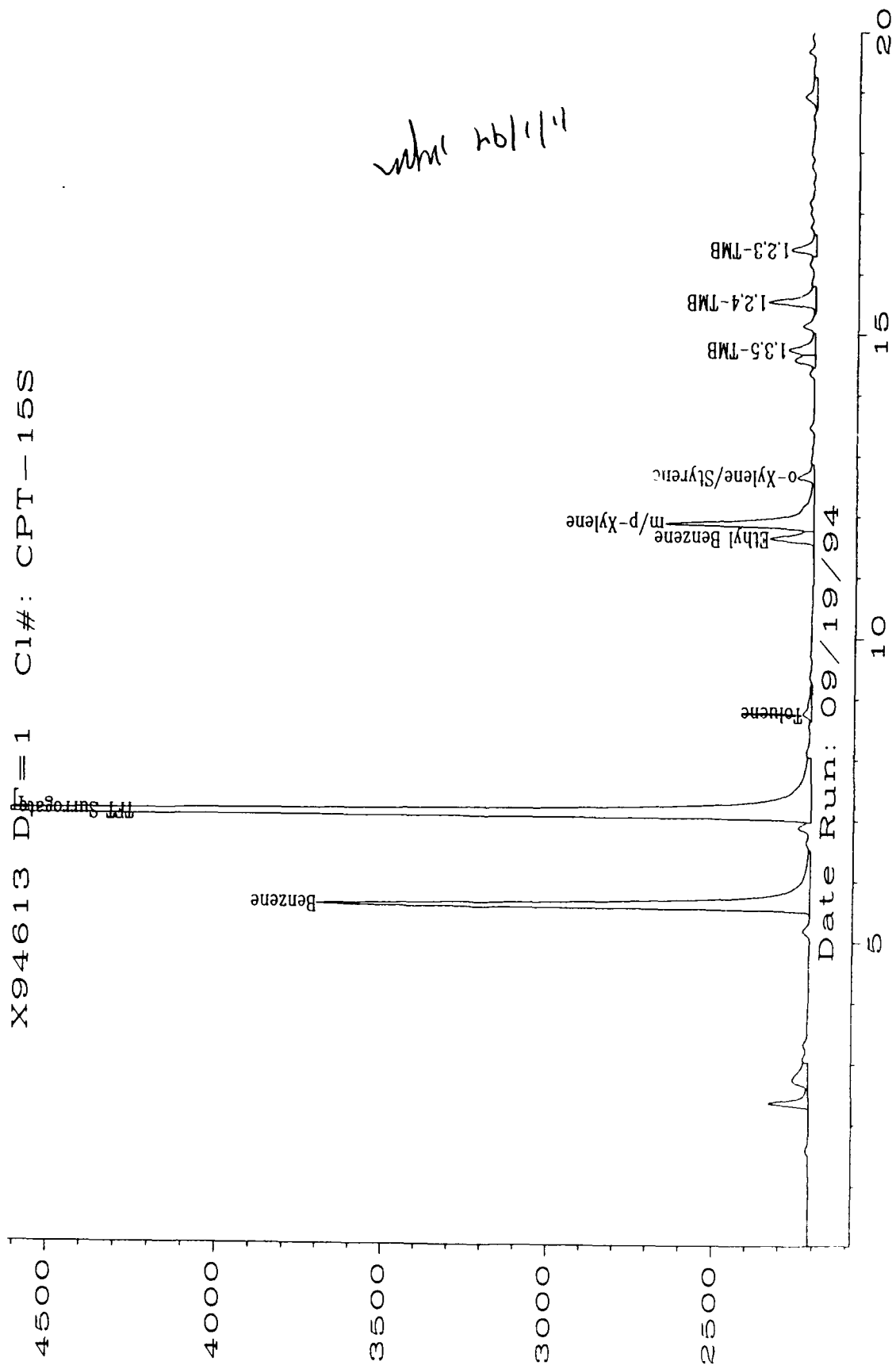
B = Compound found in blank and sample. Compare blank and sample data.

MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved



Sig. 2 in C:\HPCHEM\2\DATA\BX20918\020R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: WANG-CPT-11-6.5	Client Project No.	: Madison Ang
Lab Sample Number	: X94614	Lab Project No.	: 94-3542
Date Sampled	: 9/15/94	Dilution Factor	: 125.00
Date Received	: 9/15/94	Method	: 8020
Date Extracted/Prepared	: 9/20/94	Matrix	: Soil
Date Analyzed	: 9/21/94	Lab File No.	: BX2092016
Methanol Extract?	: Yes	Method Blank No.	: MEB092094

Compound Name	Cas Number	Sample Concentration** ug/kg	PQL ug/kg
Benzene	71-43-2	2300	580
Toluene	108-88-3	23000 B	580
Ethyl Benzene	100-41-4	1700	580
Total Xylene (m/p + o)	1330-20-7	22000 B	580
1,3,5-trimethylbenzene	108-67-8	*	*
1,2,4-trimethylbenzene	95-63-6	*	*
1,2,3-trimethylbenzene	526-73-8	*	*

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

* = See BX2092212 for noted values, df = 1250, 09/22/94.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 208% Co-eluting peaks.

QC Reporting Limits : 55%-127%

QUALIFIERS:

** = All sample results & PQLs are reported on a dry weight basis.

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

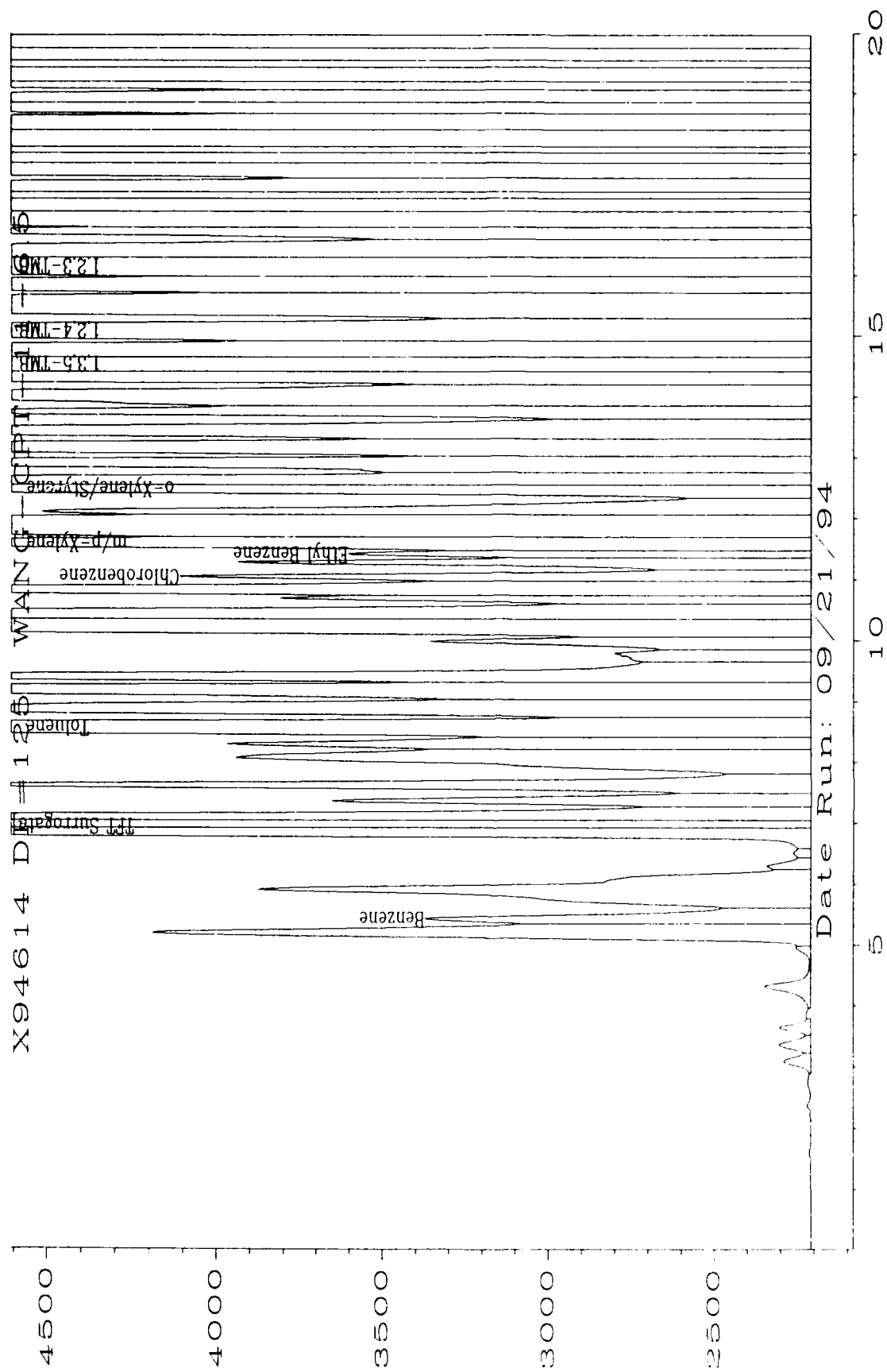
J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available

Analyst

Approved



Sig. 2 in C:\HFCHEM\2\DATA\BX20920\016R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: WANG-CPT-11-6.5	Client Project No.	: Madison Ang
Lab Sample Number	: X94614	Lab Project No.	: 94-3542
Date Sampled	: 9/15/94	Dilution Factor	: 1250.00
Date Received	: 9/15/94	Method	: 8020
Date Extracted/Prepared	: 9/22/94	Matrix	: Soil
Date Analyzed	: 9/22/94	Lab File No.	: BX2092212
Methanol Extract?	: Yes	Method Blank No.	: MEB092094

Compound Name	Cas Number	Sample Concentration** ug/kg	PQL ug/kg
Benzene	71-43-2	*	*
Toluene	108-88-3	*	*
Ethyl Benzene	100-41-4	*	*
Total Xylene (m/p + o)	1330-20-7	*	*
1,3,5-trimethylbenzene	108-67-8	74000	5800
1,2,4-trimethylbenzene	95-63-6	140000	5800
1,2,3-trimethylbenzene	526-73-8	84000	5800

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

* = See BX2092016 for noted values, df = 125, 09/21/94.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 100%
QC Reporting Limits : 55%-127%

QUALIFIERS:

** = All sample results & PQLs are reported on a dry weight basis.

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

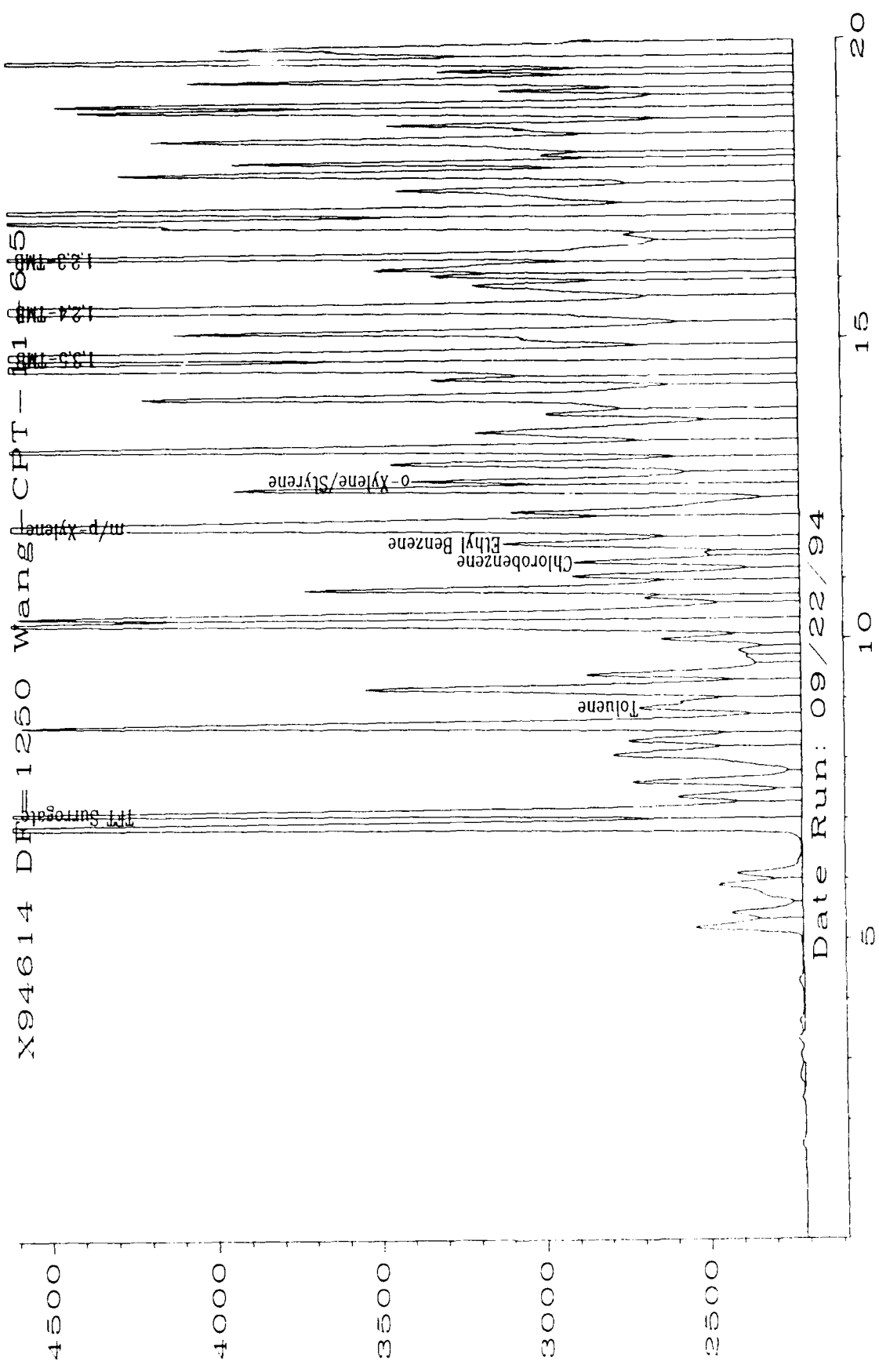
J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.

Analyst

Approved



Sig. 2 in C:\HPCHEM\2\DATA\BX20922\012R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: CPT-4D	Client Project No.	: Madison Ang
Lab Sample Number	: X94615	Lab Project No.	: 94-3542
Date Sampled	: 9/15/94	Dilution Factor	: 1.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/18/94	Matrix	: Water
Date Analyzed	: 9/19/94	Lab File No.	: BX2091821
		Method Blank No.	: MB091894

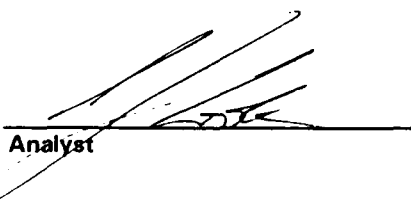
Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	5.2	0.4
Toluene	108-88-3	0.7 B	0.4
Ethyl Benzene	100-41-4	0.9	0.4
Total Xylene (m/p + o)	1330-20-7	2.2	0.4
1,3,5-trimethylbenzene	108-67-8	0.4	0.4
1,2,4-trimethylbenzene	95-63-6	1.6	0.4
1,2,3-trimethylbenzene	526-73-8	0.6	0.4

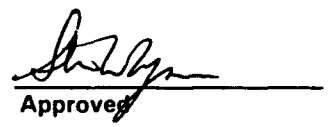
Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

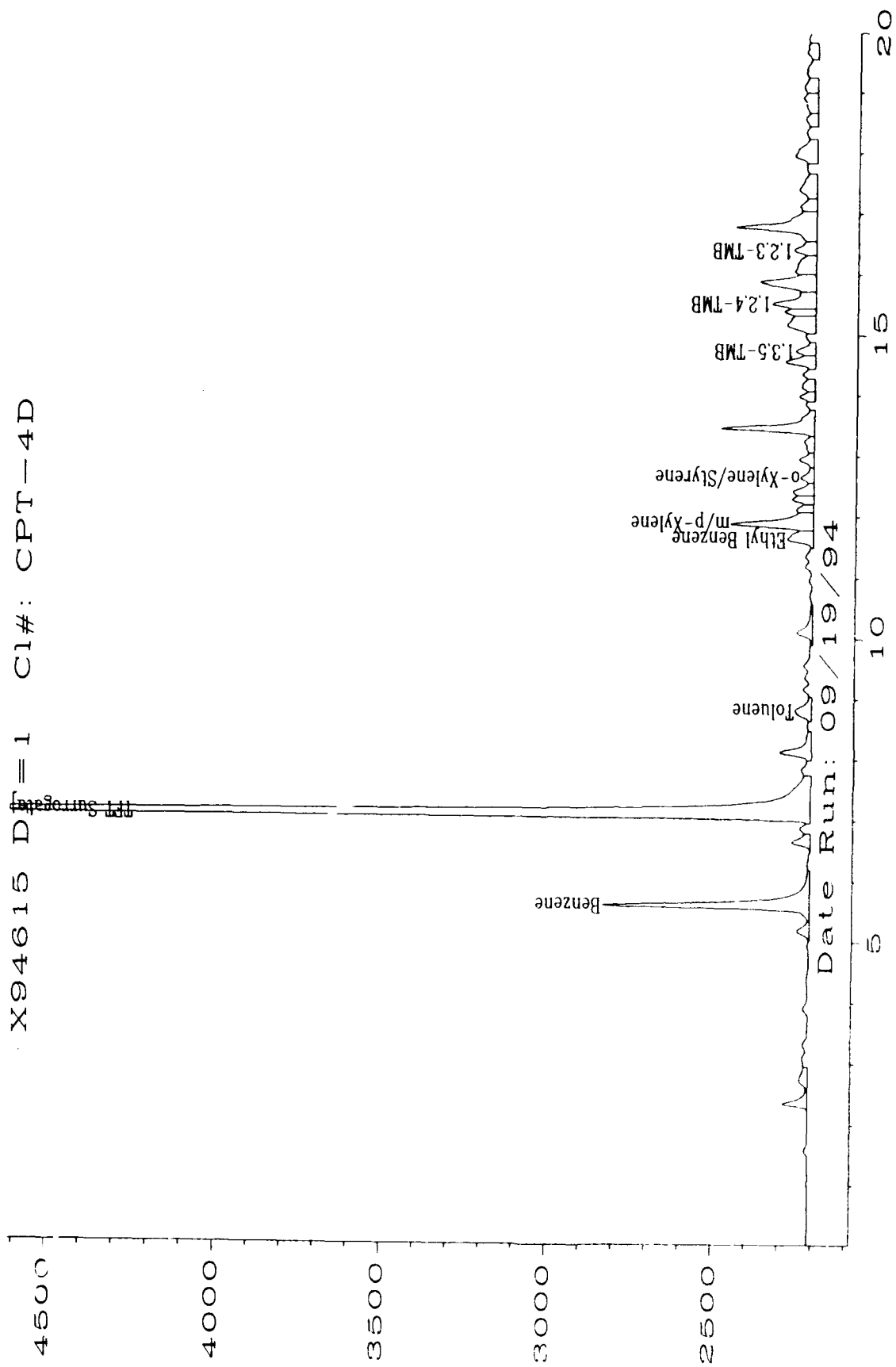
Surrogate Recovery:
a,a,a,-Trifluorotoluene : 101%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value
U = Compound analyzed for, but not detected.
B = Compound found in blank and sample. Compare blank and sample data.
MDL = Method Detection Limit.
NA = Not available.


Analyst


Approved



Sig. 2 in C:\HPCHEM\2\DATA\BX20918\021R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: Field Blank	Client Project No.	: Madison Ang
Lab Sample Number	: X94616	Lab Project No.	: 94-3542
Date Sampled	: 9/15/94	Dilution Factor	: 1.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/18/94	Matrix	: Water
Date Analyzed	: 9/19/94	Lab File No.	: BX2091822
		Method Blank No.	: MB091894

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	U	0.4
Toluene	108-88-3	U	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	U	0.4
1,3,5-trimethylbenzene	108-67-8	U	0.4
1,2,4-trimethylbenzene	95-63-6	U	0.4
1,2,3-trimethylbenzene	526-73-8	U	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:
a,a,a,-Trifluorotoluene : 96%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value

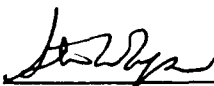
U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

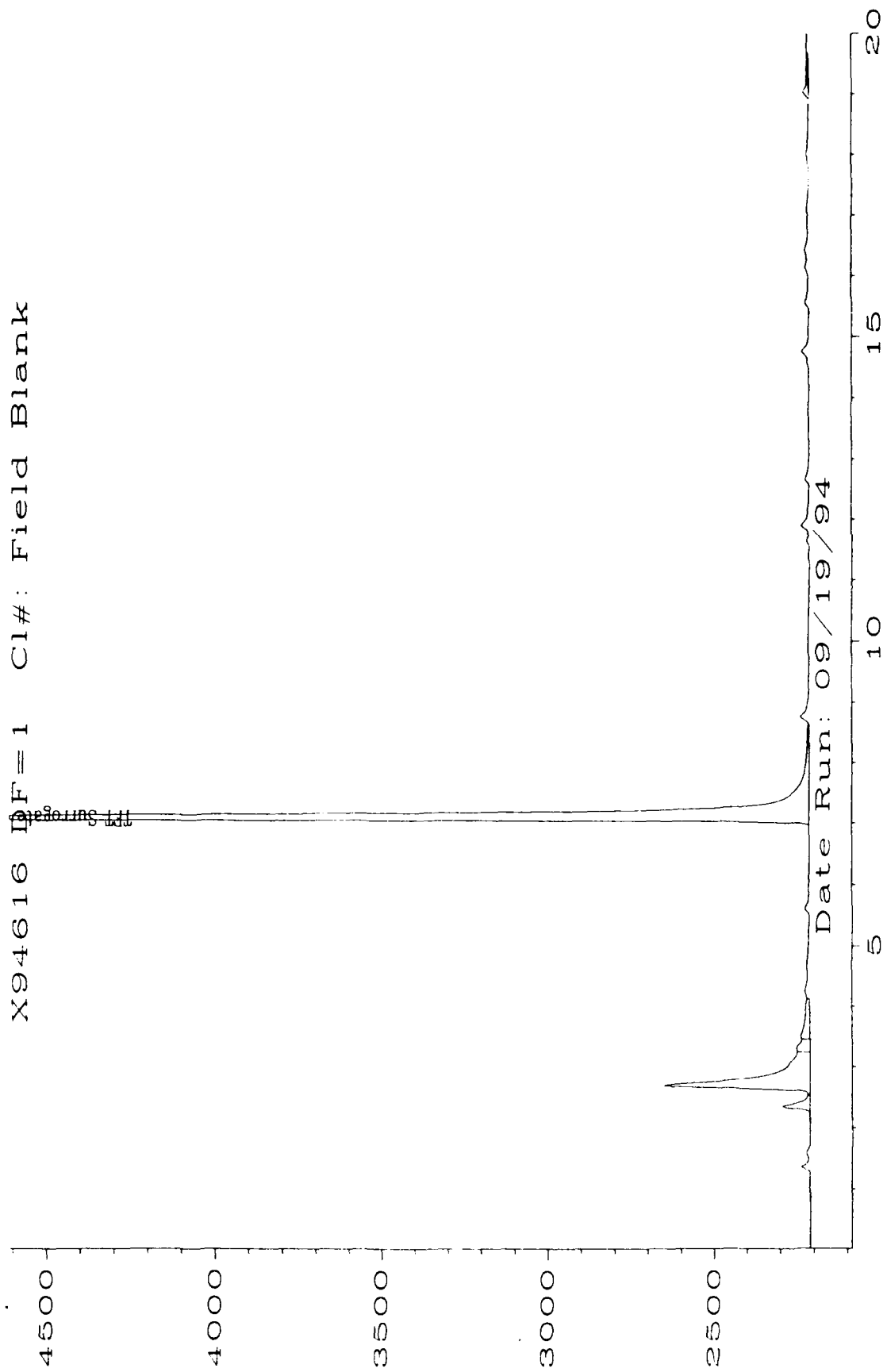
MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved

X94616 DF=1 Cl#: Field Blank



Sig. 2 in C:\HPCHEM\2\DATA\BX20918\022R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: Trip Blank	Client Project No.	: Madison Ang
Lab Sample Number	: X94617	Lab Project No.	: 94-3542
Date Sampled	: 9/15/94	Dilution Factor	: 1.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/18/94	Matrix	: Water
Date Analyzed	: 9/19/94	Lab File No.	: BX2091823
		Method Blank No.	: MB091894

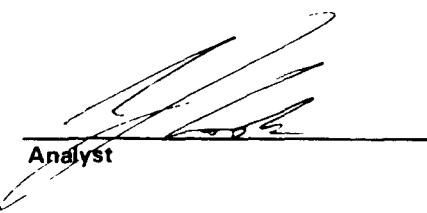
Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	U	0.4
Toluene	108-88-3	U	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	U	0.4
1,3,5-trimethylbenzene	108-67-8	U	0.4
1,2,4-trimethylbenzene	95-63-6	U	0.4
1,2,3-trimethylbenzene	526-73-8	0.5	0.4

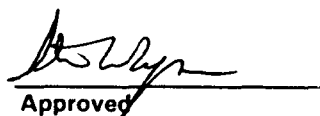
Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:
a,a,a,-Trifluorotoluene : 81%
QC Reporting Limits : 77%-116%

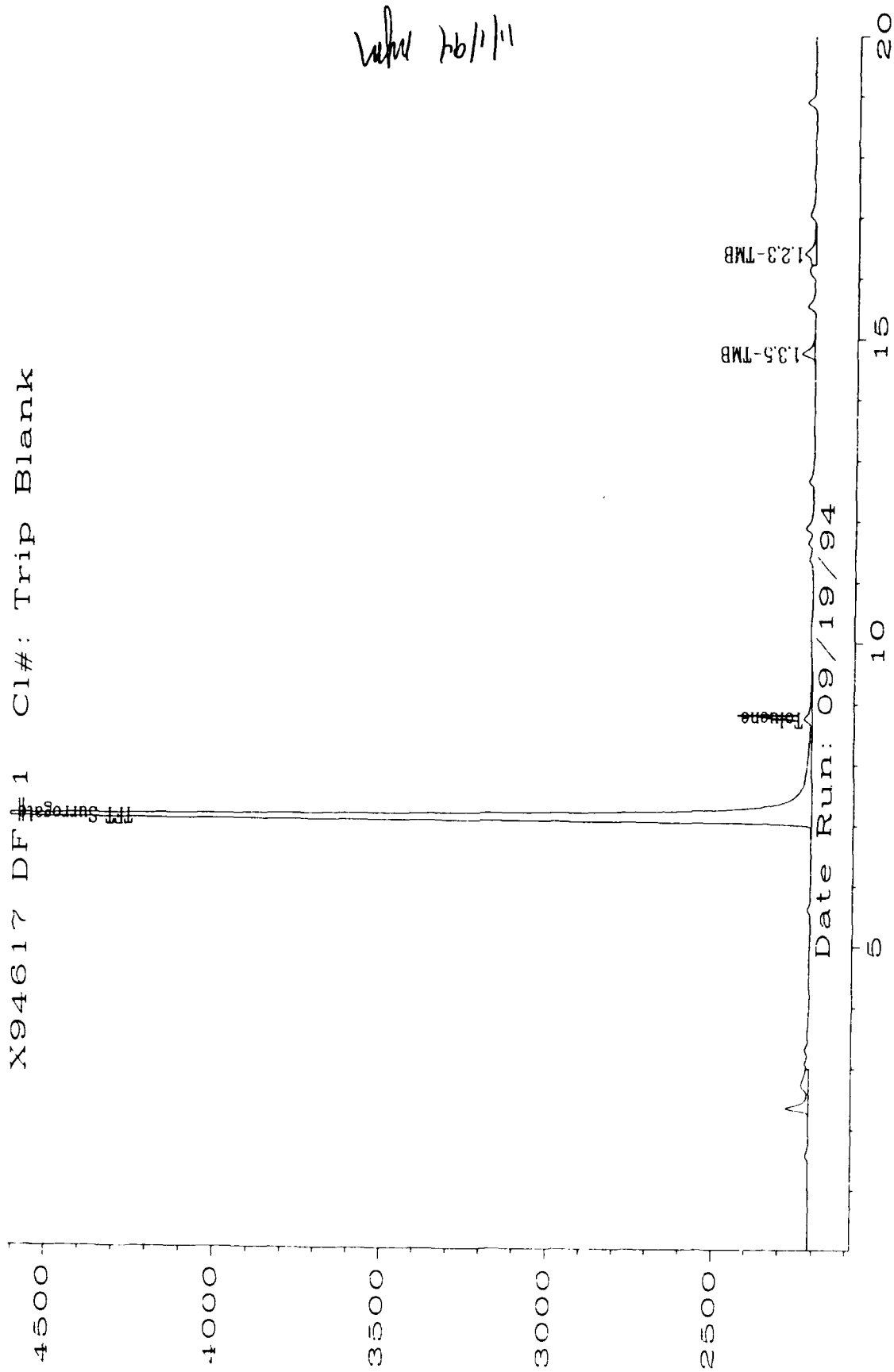
QUALIFIERS:

E = Extrapolated value
U = Compound analyzed for, but not detected.
B = Compound found in blank and sample. Compare blank and sample data.
MDL = Method Detection Limit.
NA = Not available.


Analyst


Approved

X94617 DF#1 Cl#: Trip Blank



Sig. 2 in C:\HPCHEM\2\DATA\BX20918\023R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Method Blank Report

Method Blank Number : MB091894
Date Extracted/Prepared : 9/18/94
Date Analyzed : 9/18/94

Client Project No. : Madison Ang
Lab Project No. : 94-3542
Dilution Factor : 1.00
Method : 602
Matrix : Water
Lab File No. : BX2091803

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	U	0.4
Toluene	108-88-3	0.4	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	U	0.4
1,3,5-trimethylbenzene	108-67-8	U	0.4
1,2,4-trimethylbenzene	95-63-6	U	0.4
1,2,3-trimethylbenzene	526-73-8	U	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:
a,a,a,-Trifluorotoluene : 111%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

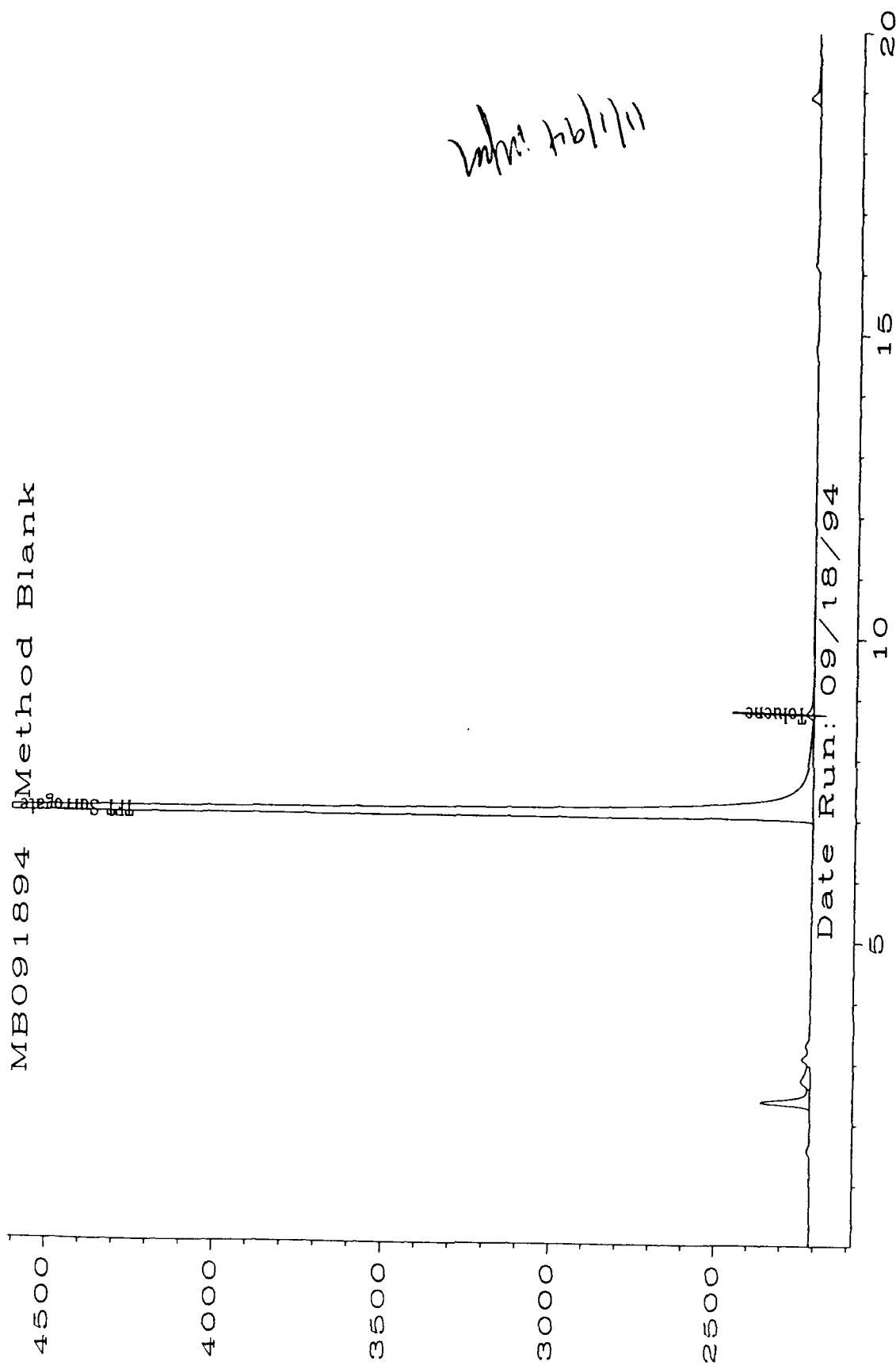
MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved

MB091894 Method Blank



Sig. 2 in C:\HPCHEM\2\DATA\BX20918\003R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Method Blank Report

Method Blank Number	: MB092094	Client Project No.	: Madison Ang
Date Extracted/Prepared	: 9/20/94	Lab Project No.	: 94-3542
Date Analyzed	: 9/20/94	Dilution Factor	: 1.00
		Method	: 602
		Matrix	: Water
		Lab File No.	: BX2092003

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	U	0.4
Toluene	108-88-3	U	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	U	0.4
1,3,5-trimethylbenzene	108-67-8	U	0.4
1,2,4-trimethylbenzene	95-63-6	U	0.4
1,2,3-trimethylbenzene	526-73-8	U	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:
a,a,a,-Trifluorotoluene : 106%
QC Reporting Limits : 77%-116%

QUALIFIERS:

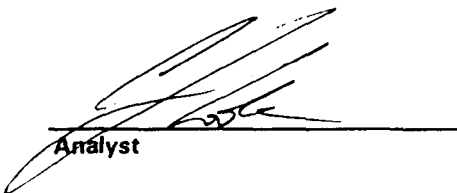
E = Extrapolated value

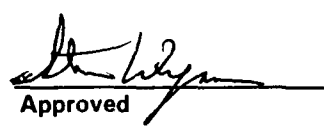
U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

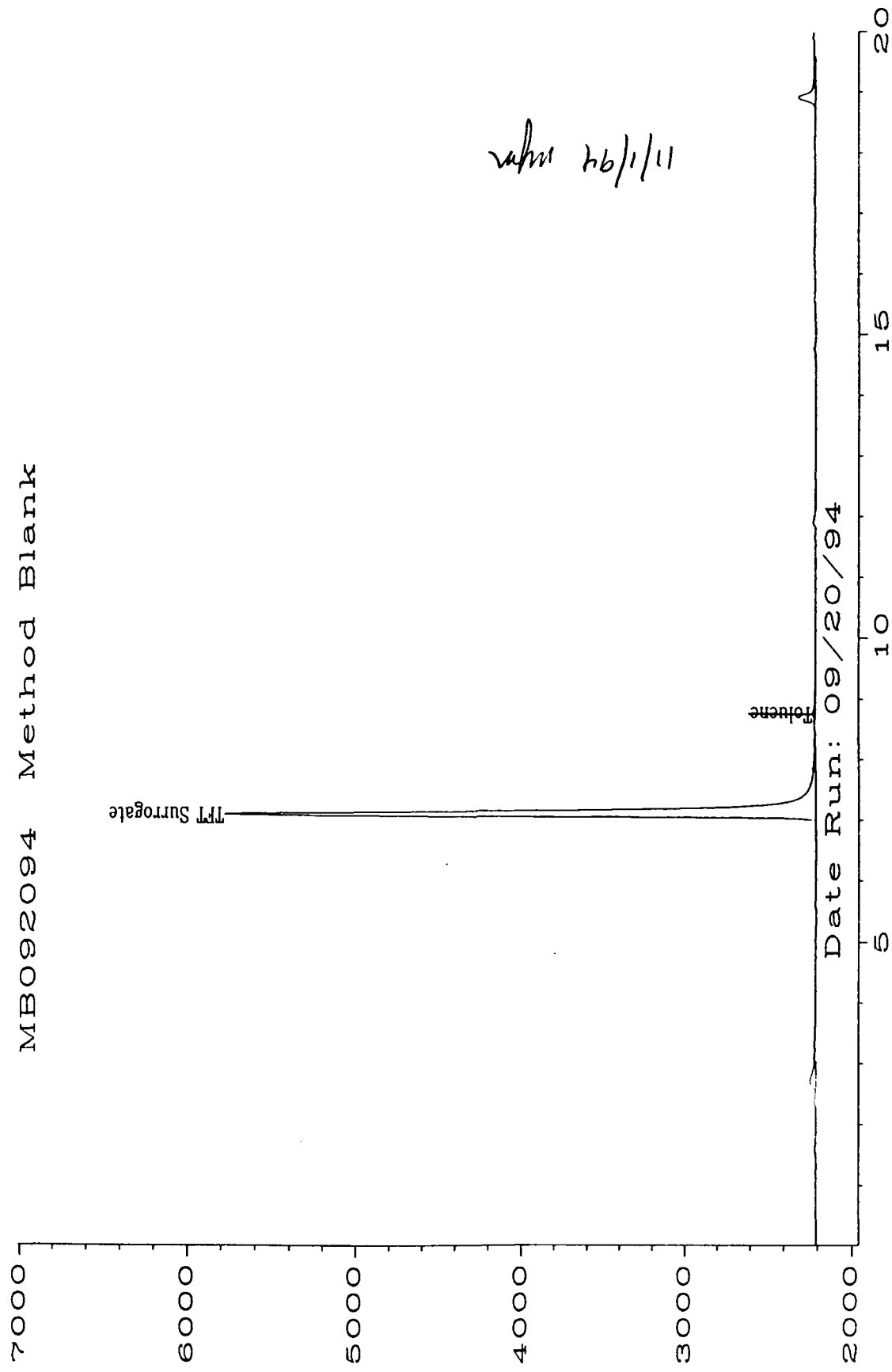
MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved

MB092094 Method Blank



Sig. 2 in C:\HPCHEM\2\D\TA\BX20920\003R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Method Blank Report

Method Blank Number	: MEB092094	Client Project No.	: Madison Ang
Date Extracted/Prepared	: 9/20/94	Lab Project No.	: 94-3542
Date Analyzed	: 9/21/94	Dilution Factor	: 1.00
		Method	: 8020
		Matrix	: Water
		Lab File No.	: BX2092018

Compound Name	Cas Number	Sample Concentration ug/L	PQL ug/L
Benzene	71-43-2	U	4
Toluene	108-88-3	0.5 J	4
Ethyl Benzene	100-41-4	U	4
Total Xylene (m/p + o)	1330-20-7	0.4 J	4
1,3,5-trimethylbenzene	108-67-8	U	4
1,2,4-trimethylbenzene	95-63-6	U	4
1,2,3-trimethylbenzene	526-73-8	U	4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 92%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value

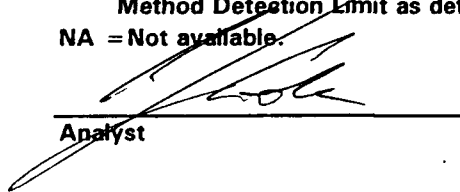
U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

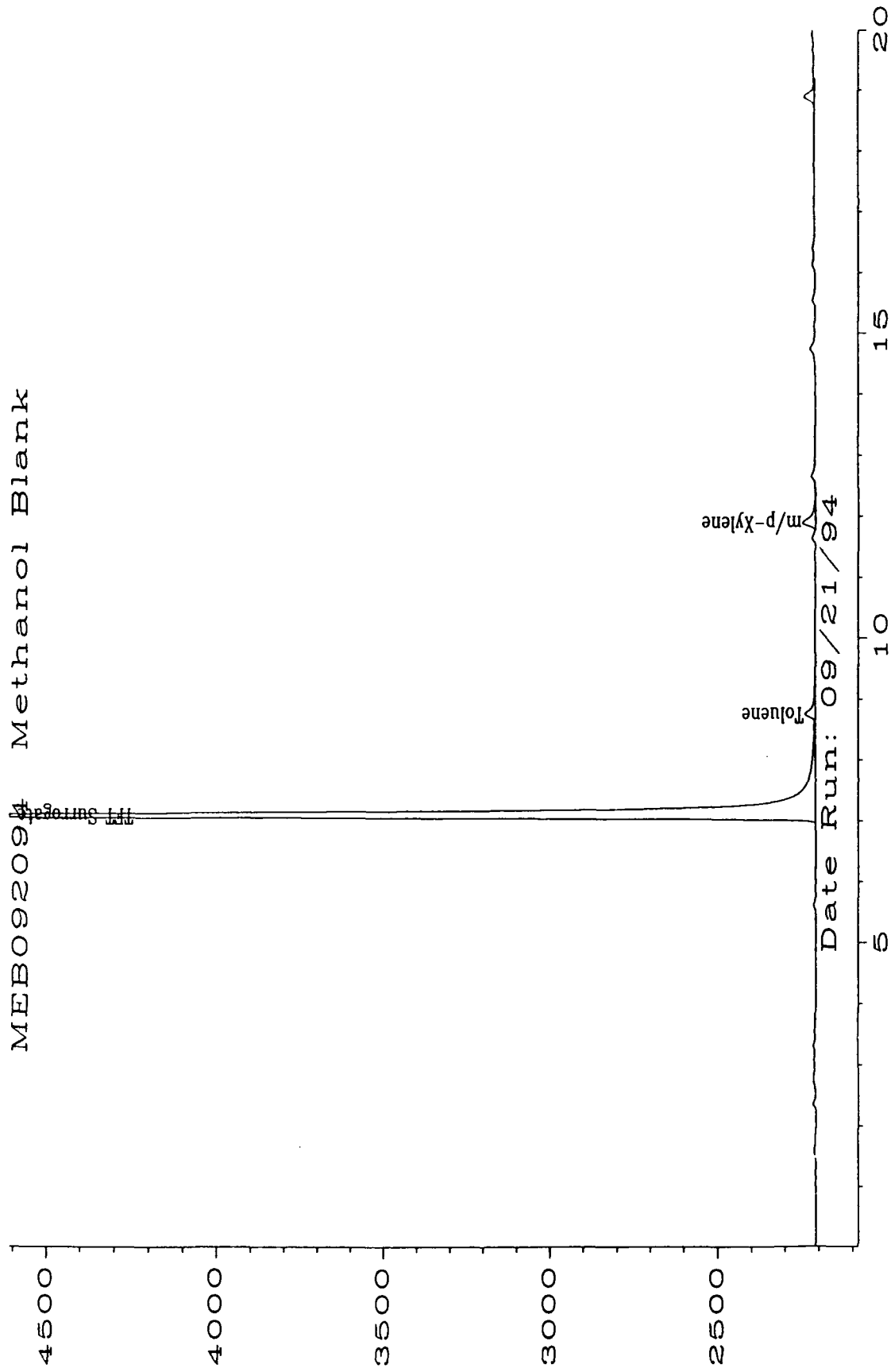
PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.


Analyst


Approved

MEB092094 Methanol Blank



Sig. 2 in C:\HPCHEM\2\DATA\BX20920\018R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Method Blank Report

Method Blank Number	: MB092294	Client Project No.	: Madison Ang
Date Extracted/Prepared	: 9/22/94	Lab Project No.	: 94-3542
Date Analyzed	: 9/22/94	Dilution Factor	: 1.00
		Method	: 602
		Matrix	: Water
		Lab File No.	: BX2092203

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	U	0.4
Toluene	108-88-3	U	0.4
methyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	U	0.4
1,3,5-trimethylbenzene	108-67-8	U	0.4
1,2,4-trimethylbenzene	95-63-6	U	0.4
1,2,3-trimethylbenzene	526-73-8	U	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:
a,a,a,-Trifluorotoluene : 109%
QC Reporting Limits : 77%-116%

QUALIFIERS:

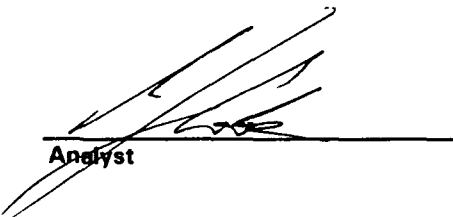
E = Extrapolated value

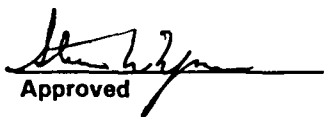
U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

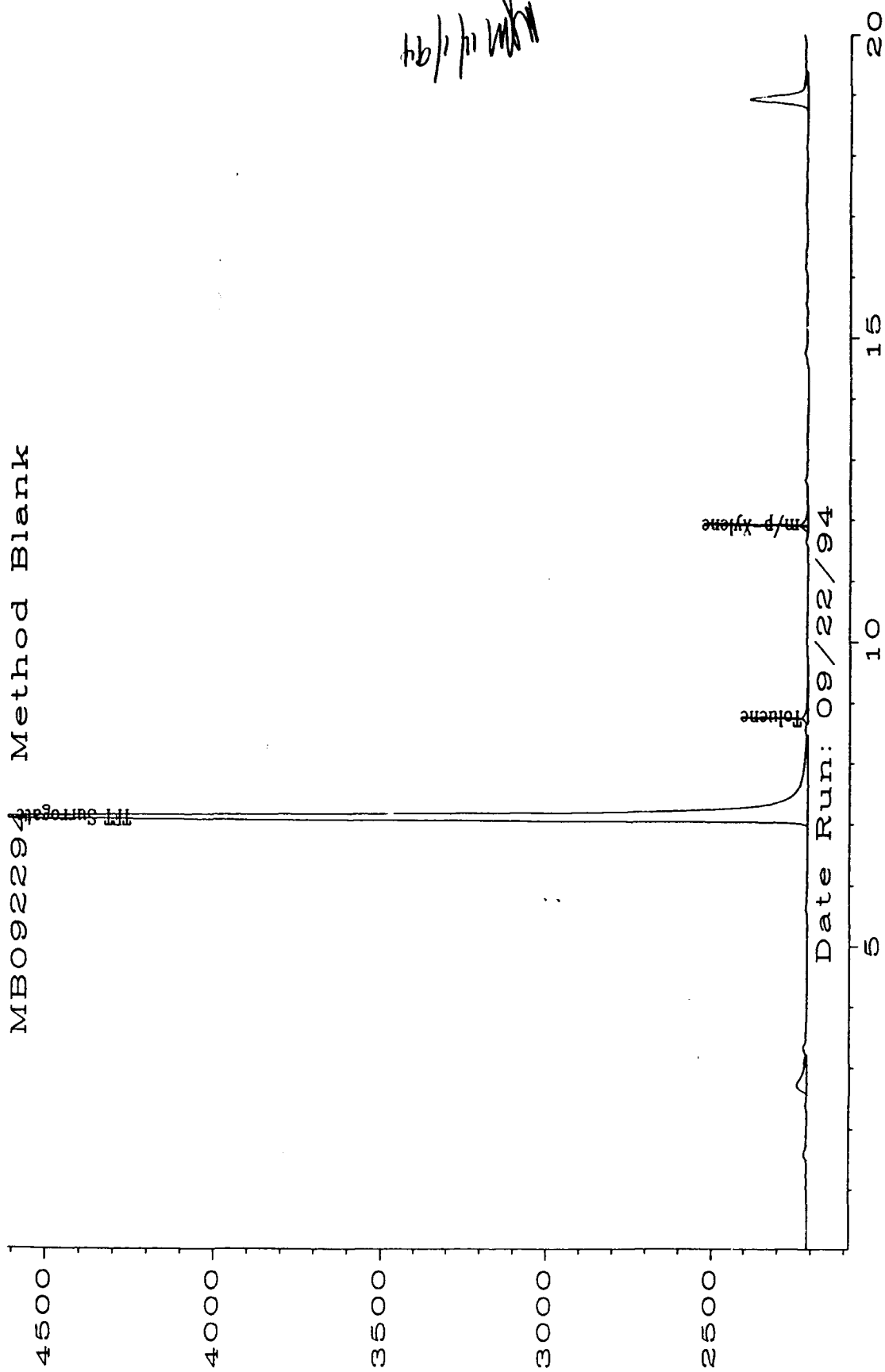
MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved

MB092294 Method Blank



Sig. 2 in C:\HPCHEM\2\F TA\BX20922\003R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Laboratory Control Sample (LCS)

LCS Number	: LCS091894	Client Project No.	: Madison Ang
Date Extracted/Prepared	: 9/18/94	Lab Project No.	: 94-3542
Date Analyzed	: 9/18/94	Dilution Factor	: 1.00
		Method	: 8020
		Matrix	: Water
		Lab File No.	: BX2091813

Compound Name	Cas Number	LCS Concentration ug/L	QC Limit ug/L
Benzene	71-43-2	35	29-47
Toluene	108-88-3	36	30-42
Ethyl Benzene	100-41-4	39	31-43
m/p-Xylene	NA	39	31-42
o-Xylene	95-47-6	38	31-42
1,3,5-trimethylbenzene	108-67-8	37	NA
1,2,4-trimethylbenzene	95-63-6	37	NA
1,2,3-trimethylbenzene	526-73-8	42	NA

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a-Trifluorotoluene	: 99%
QC Reporting Limits	: 77%-116%

QUALIFIERS:

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

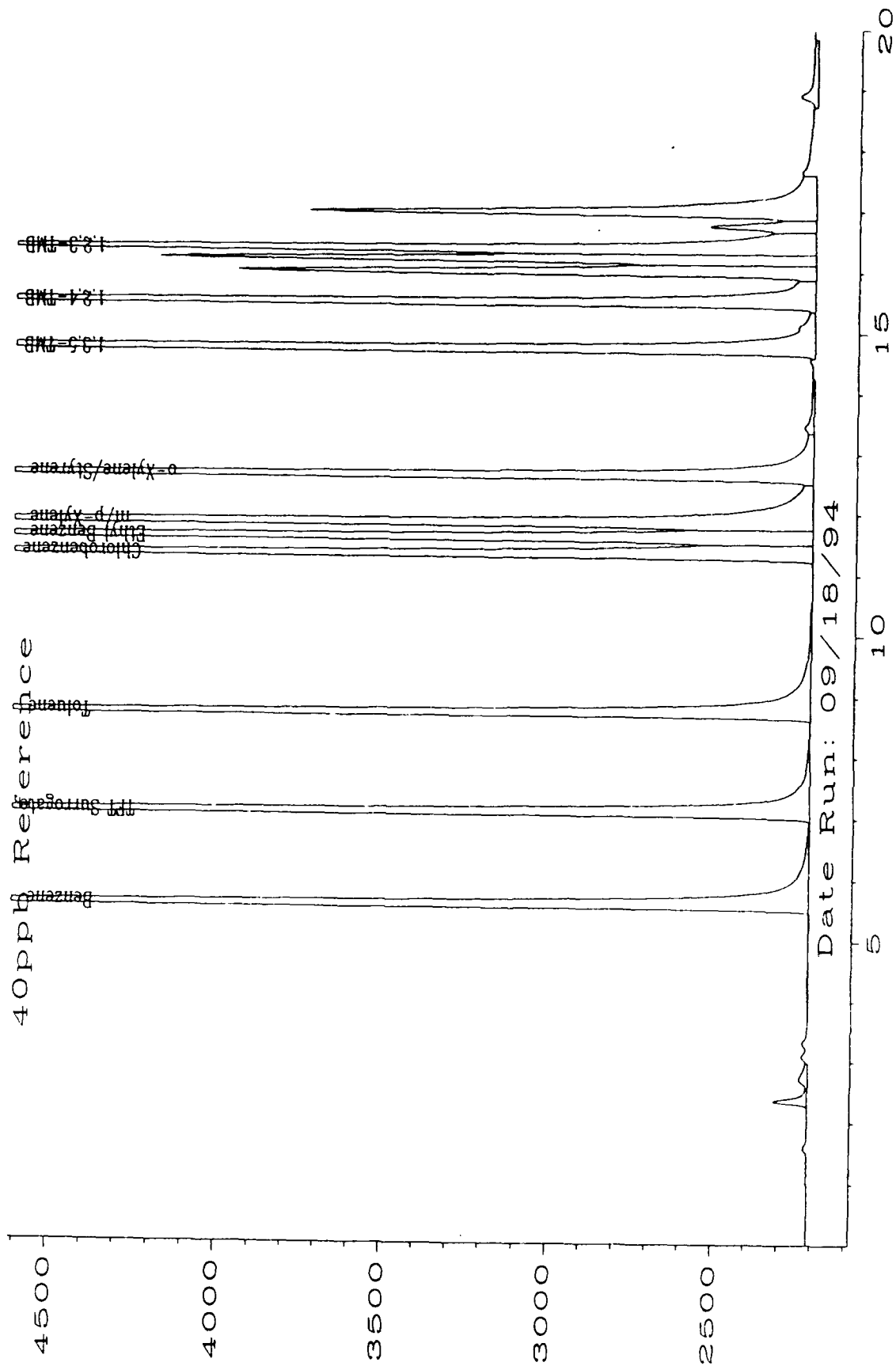
PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.

Analyst

Approved

LC5091894



Sig. 2 in C:\HPCHEM\2\ TAN\BX20918\013R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Laboratory Control Sample (LCS)

LCS Number	: LCS092194	Client Project No.	: Madison Ang
Date Extracted/Prepared	: 9/21/94	Lab Project No.	: 94-3542
Date Analyzed	: 9/21/94	Dilution Factor	: 1.00
		Method	: 8020
		Matrix	: Water
		Lab File No.	: BX2092019

Compound Name	Cas Number	LCS Concentration ug/L	QC Limit ug/L
Benzene	71-43-2	31	29-47
Toluene	108-88-3	32	30-42
Ethyl Benzene	100-41-4	35	31-43
m/p-Xylene	NA	34	31-42
o-Xylene	95-47-6	33	31-42
1,3,5-trimethylbenzene	108-67-8	32	NA
1,2,4-trimethylbenzene	95-63-6	32	NA
1,2,3-trimethylbenzene	526-73-8	38	NA

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:
a,a,a,-Trifluorotoluene : 93%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value

U = Compound analyzed for, but not detected.

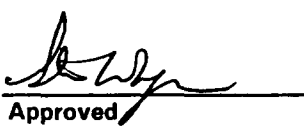
B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

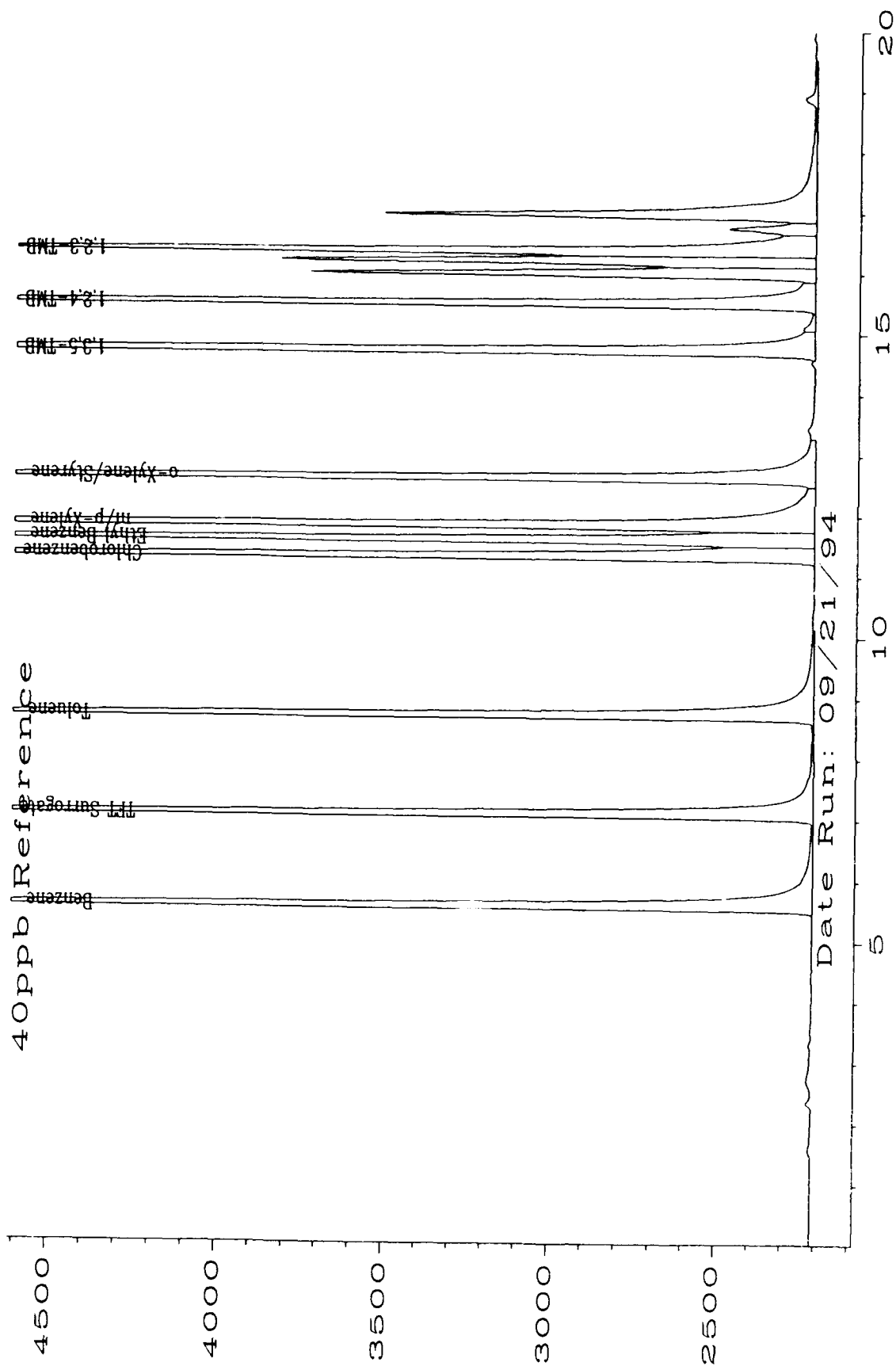
PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.


Analyst


Approved

LC5092194



Sig. 2 in C:\HPCHEM\2\DATA\BX20920\019R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS (TVH)

Date Sampled	: 9/15/94	Client Project Number	: Madison Ang
Date Received	: 9/15/94	Lab Project Number	: 94-3542
Date Prepared	: 9/28/94	Matrix	: Water
Date Analyzed	: 9/28/94	Method Number	: 5030/Mod.8015

Evergreen Sample #	Client Sample #	Surrogate Recovery	TVH mg/L	MDL mg/L
MB092894	Method Blank	100%	U	0.1
X94605	HP-CPT-3	130%	U	0.1
X94606	HP-CPT-11	134%	14	0.5
X94608	CPT-17S	113%	25	0.1
X94609	CPT-17D	132%	13	0.1
X94611	CPT-18S	115%	0.6	0.1
X94613	CPT-15S	129%	0.4	0.1
X94615	CPT-4D	105%	U	0.1

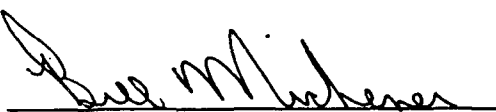
QUALIFIERS

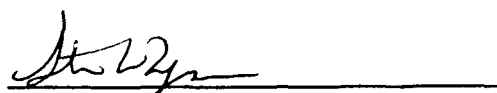
U = TVH analyzed for but not detected.

B = TVH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

MDL = Method Detection Limit


Analyst


Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS (TVH)

Date Sampled	: 9/15/94	Client Project Number	: Madison Ang
Date Received	: 9/15/94	Lab Project Number	: 94-3542
Date Prepared	: 9/28/94	Matrix	: Soil
Date Analyzed	: 9/28,29/94	Method Number	: 5030/Mod.8015

<u>Evergreen Sample #</u>	<u>Client Sample #</u>	<u>Surrogate Recovery</u>	<u>TVH mg/Kg</u>	<u>MDL mg/Kg</u>
MB092894	Method Blank	100%	U	0.10
X94607	WANG-CPT18-4.5	103%	U	0.13
X94610	WANG-CPT8-7.5	[1]	3000	5.5
X94612	WANG-CPT2-7	132%	0.4	0.12
X94614	WANG-CPT-11-6.5	[1]	4600	5.8

[1] = Unable to separate surrogate from analyte.

QUALIFIERS

U = TVH analyzed for but not detected.

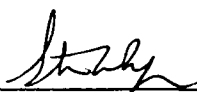
B = TVH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

MDL = Method Detection Limit

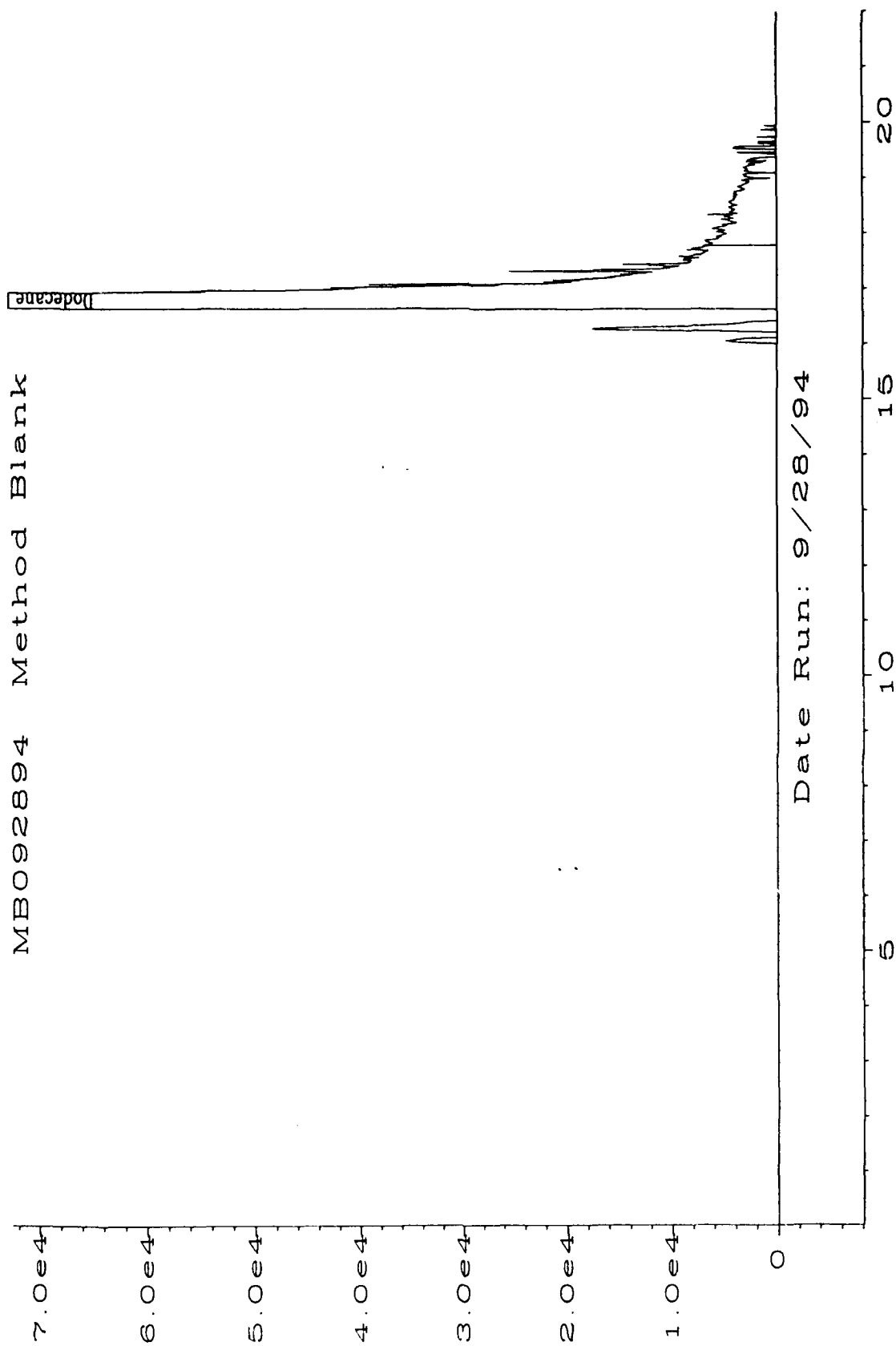


Analyst



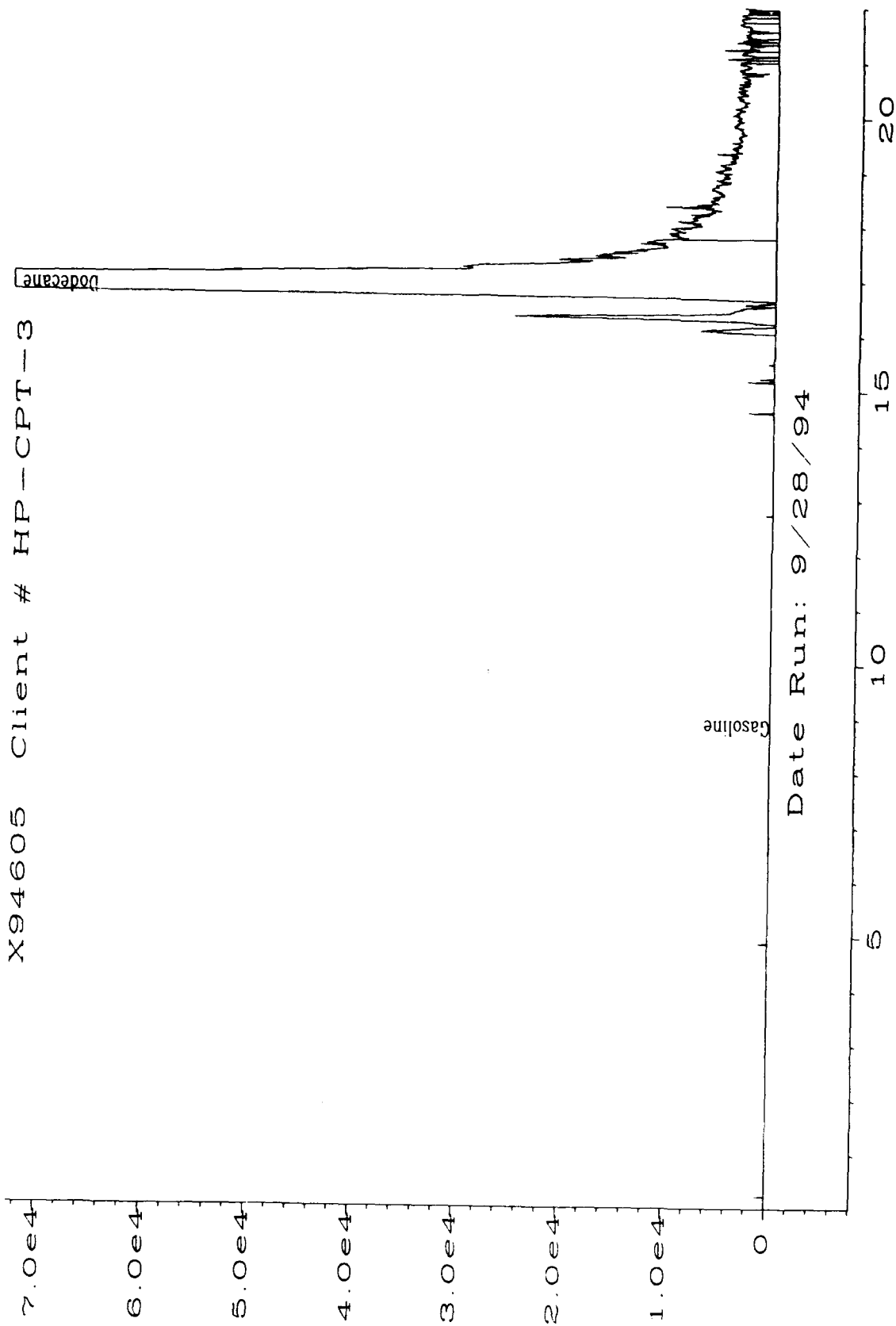
Approved

MB092894 Method Blank

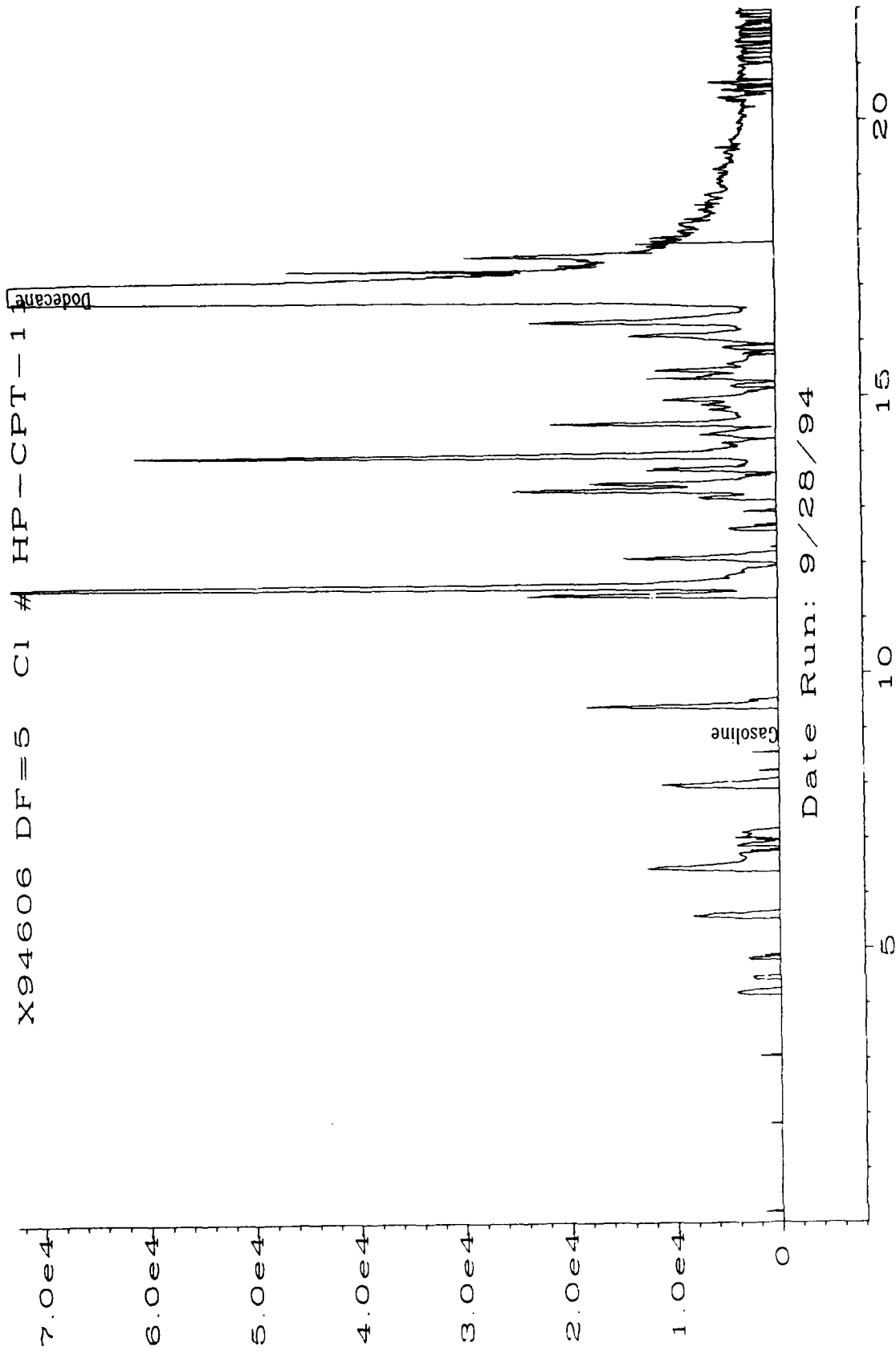


Sig. 1 in C:\HPCHEM\1\DATA\TVH0928\014F0101.D

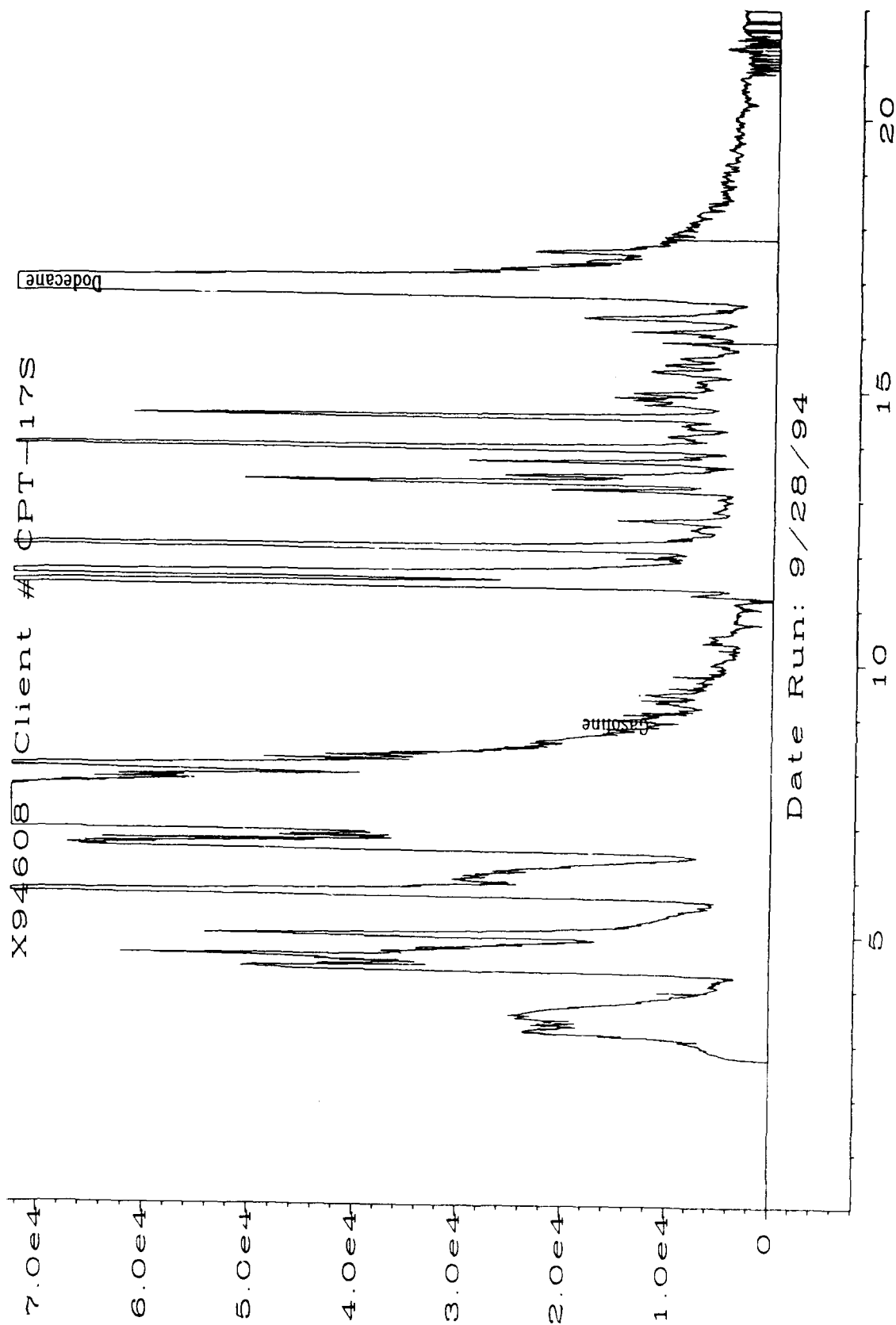
X94605 Client # HP-CPT-3



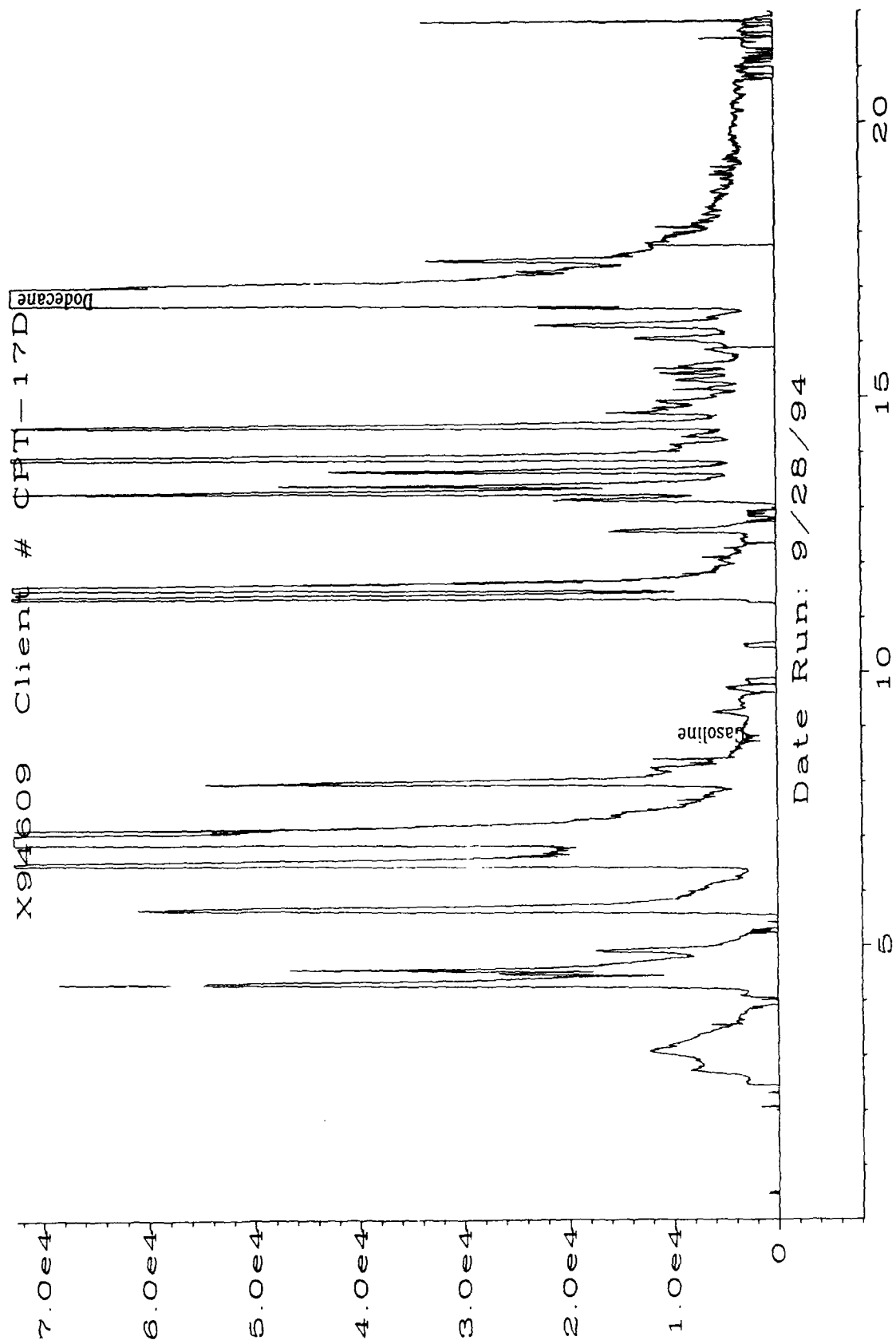
Sig. 1 in C:\HPCHEM\1\DATA\TVH0928\005F0101.D



Sig. 1 in C:\HPCHEM\1\DATA\TVH0928\006F0101.D

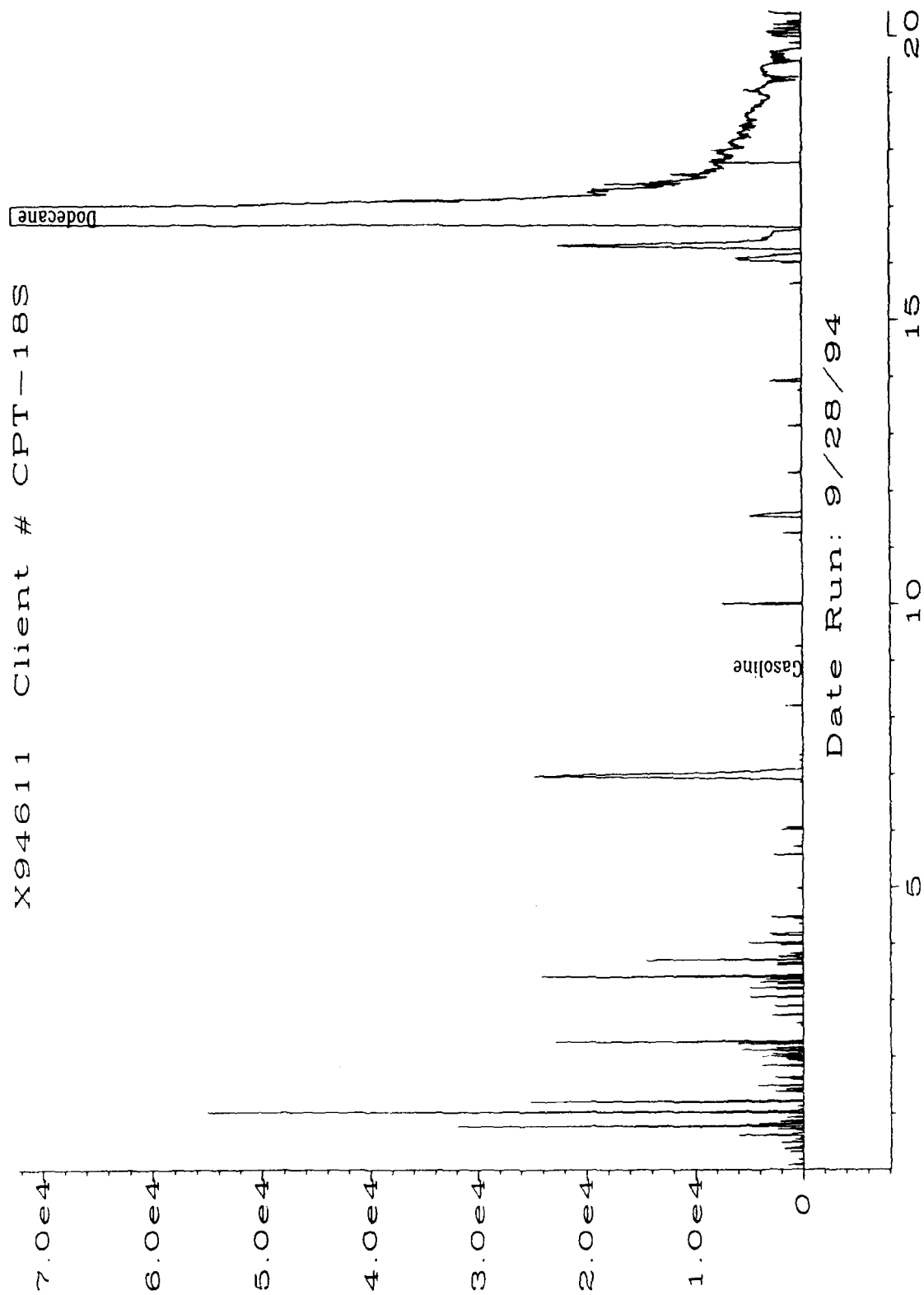


Sig. 1 in C:\HPCHEM\1\DATA\TVH0928\007F0101.D



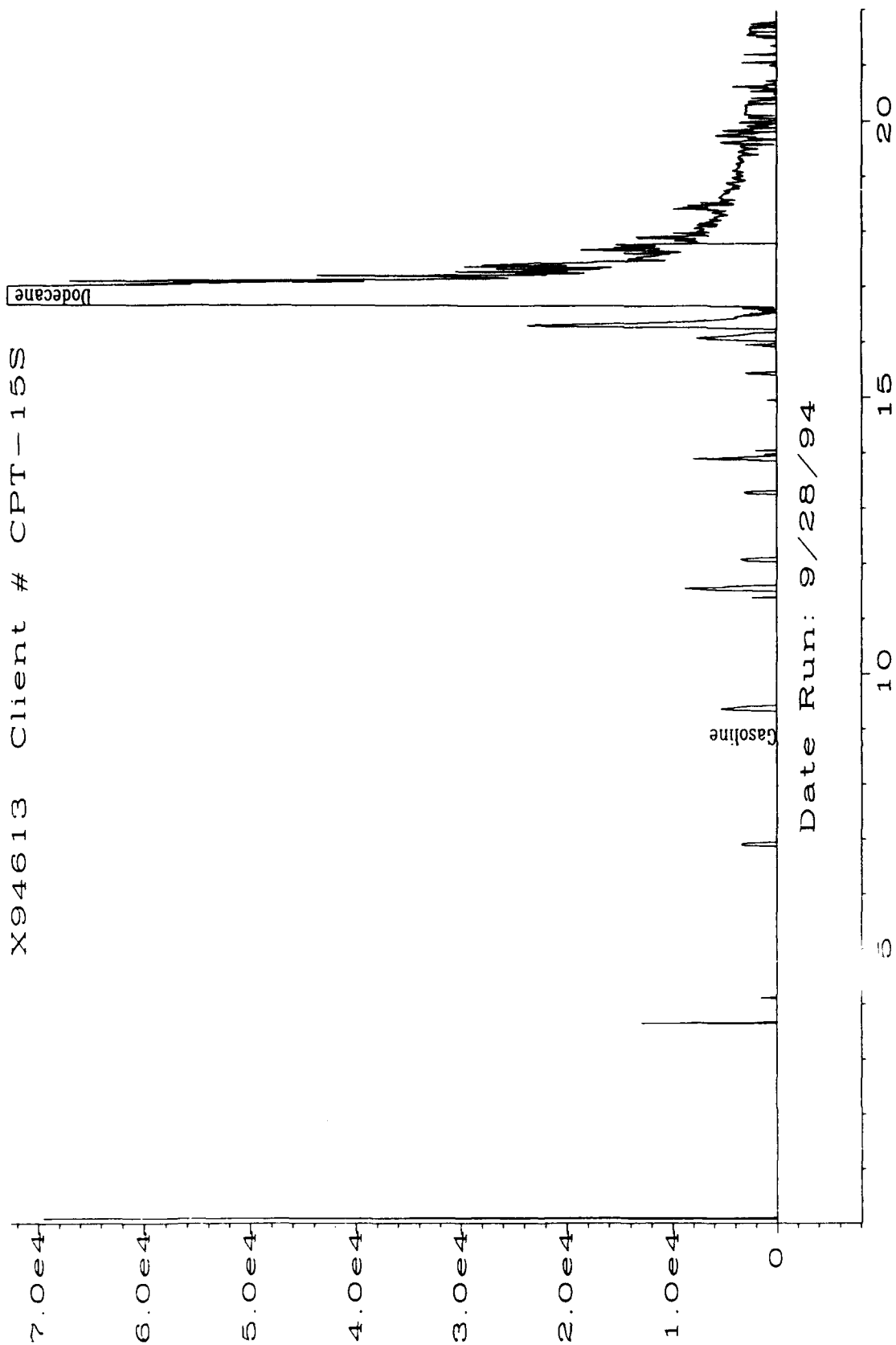
Sig. 1 in C:\HPCHEM\1\DATA\TVH0928\008F0101.D

X94611 Client # CPT-18S



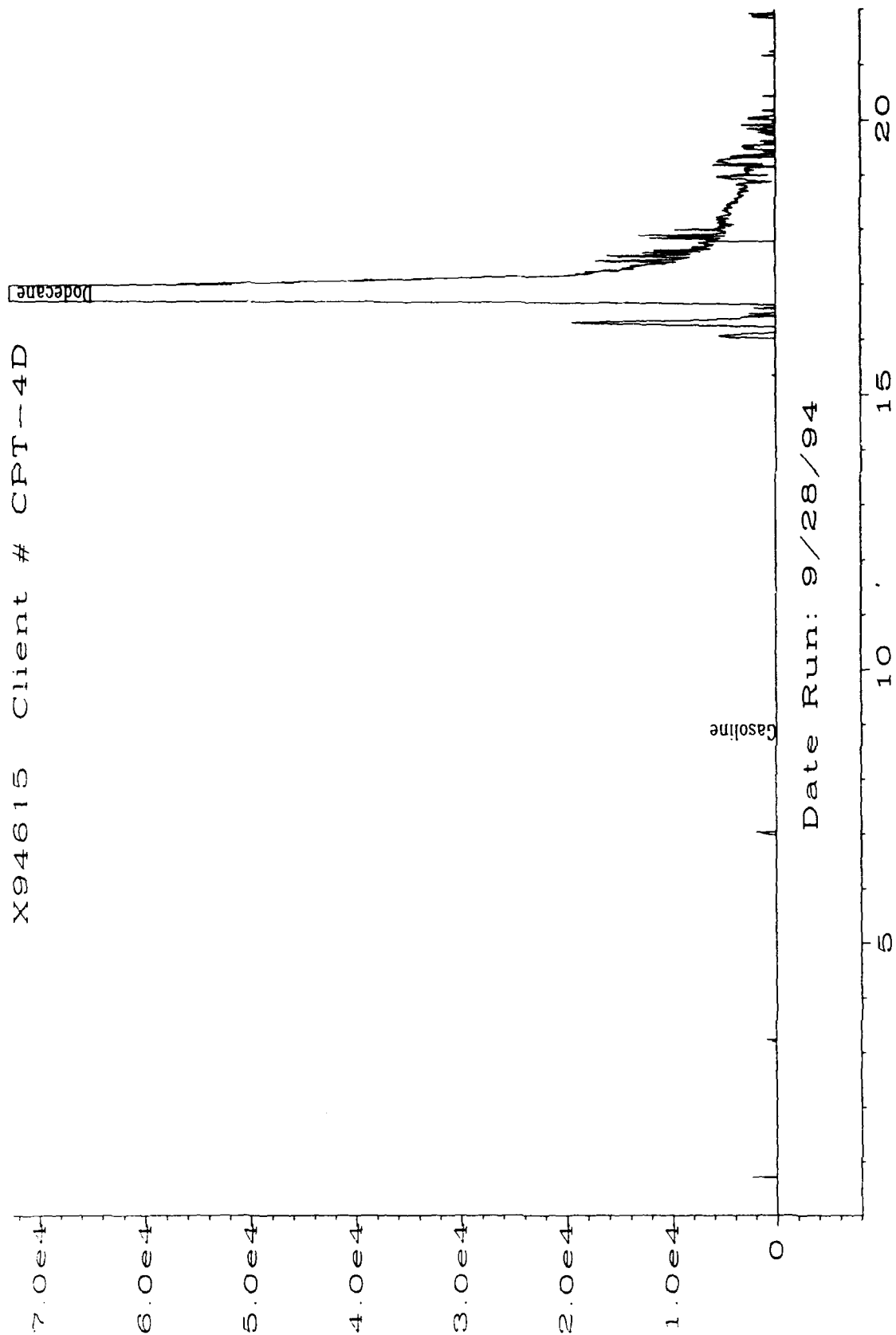
Sig. 1 in C:\HPCHEM\1\DATA\TVH0928\009F0101.D

X94613 Client # CPT-15S

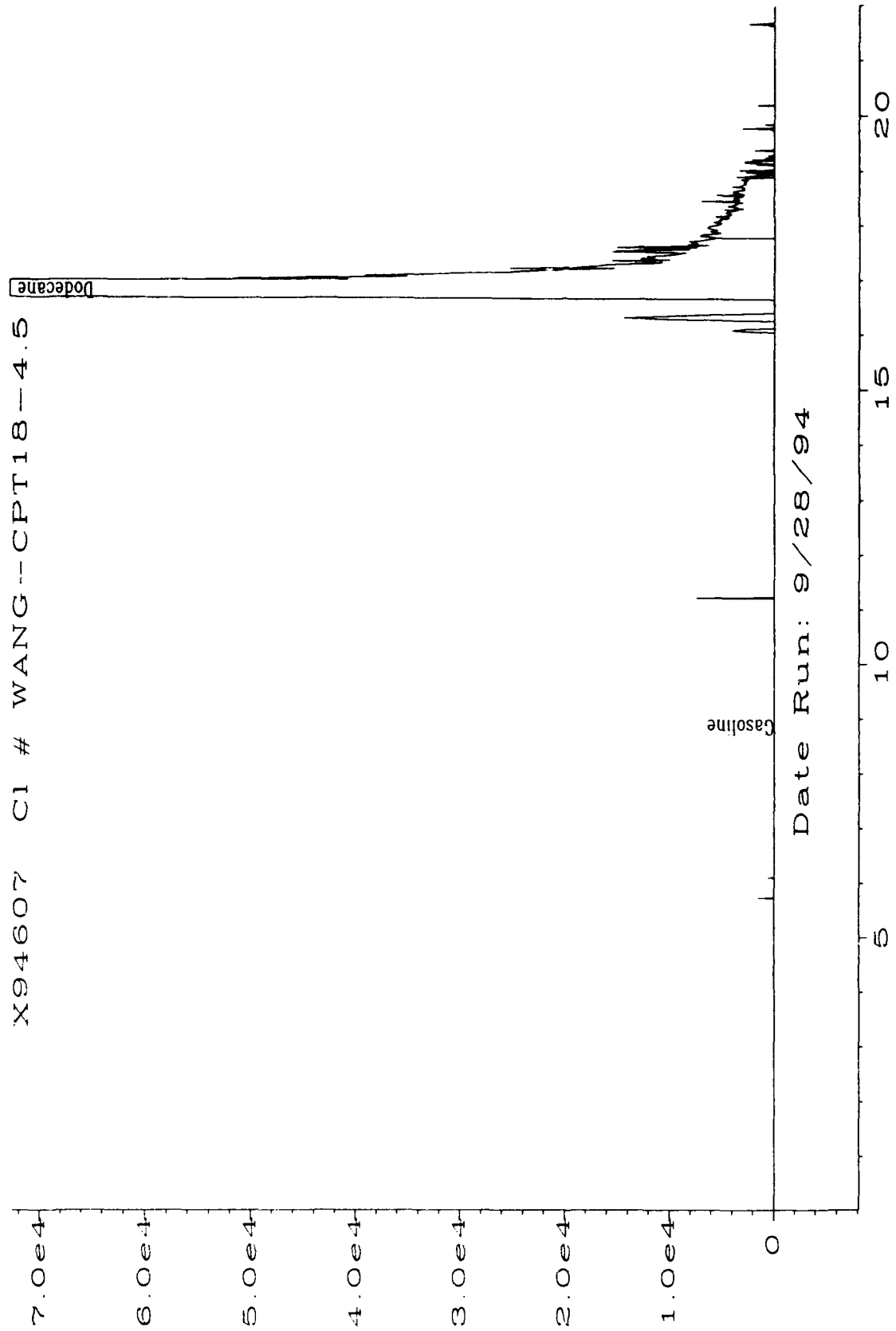


Sig. 1 in C:\HPCHEM\1\DATA\TVH0928\010F0101.D

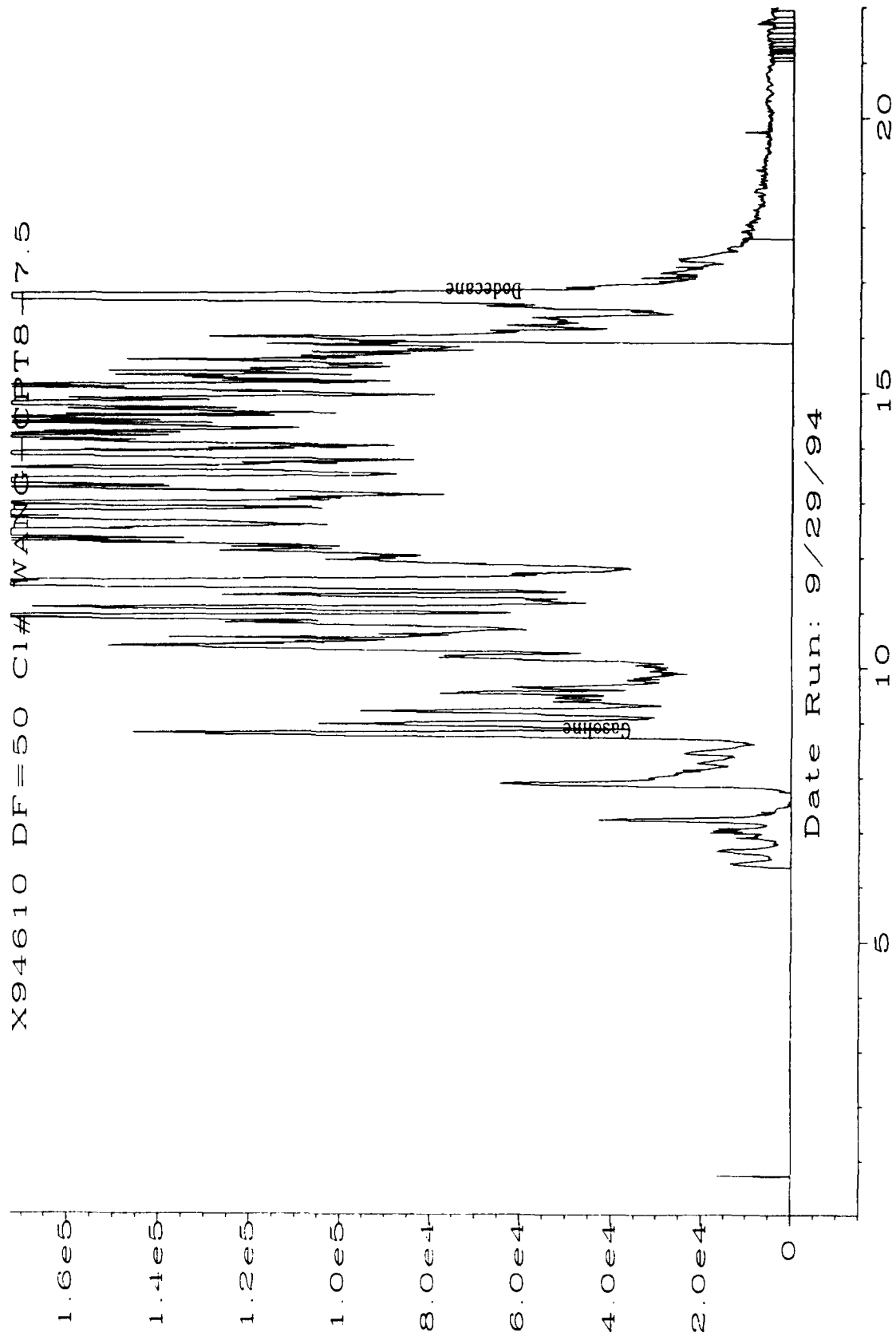
X94615 Client # CPT--4D



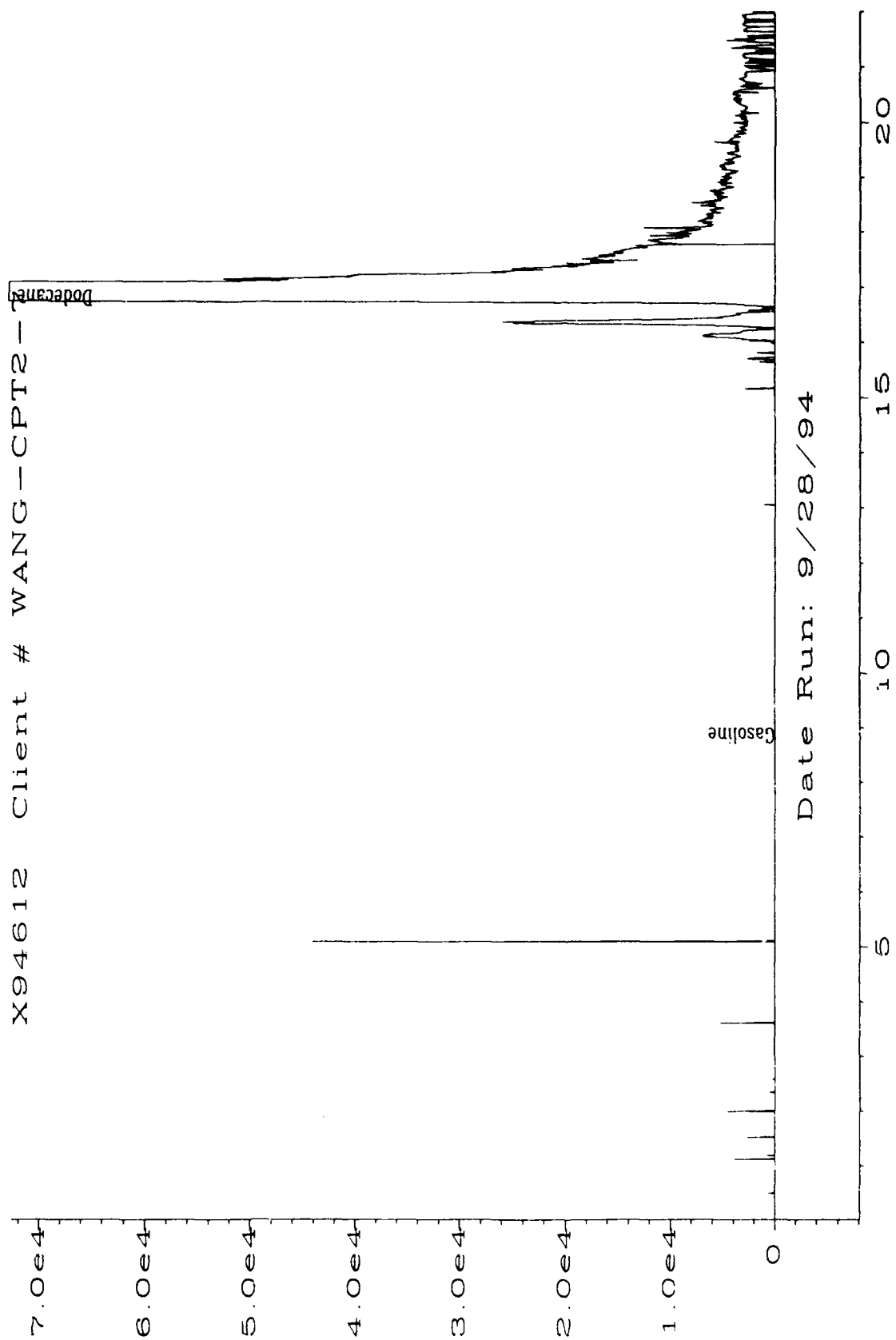
Sig. 1 in C:\HPCHEM\1\DATA\TVH0928\011F0101.D



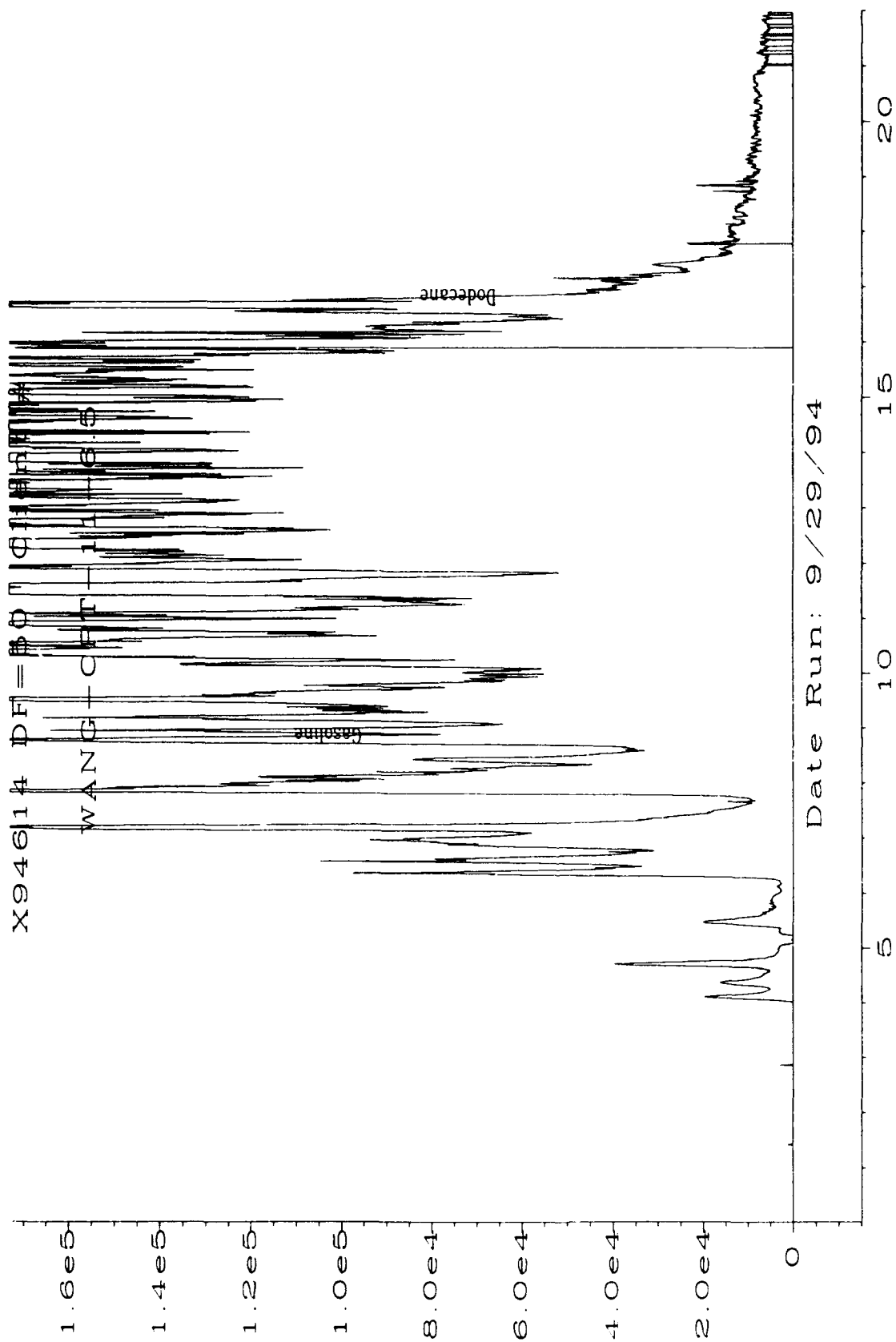
Sig. 1 in C:\HPCHEM\1\DATA\TVH0928\001F0101.D



Sig. 1 in C:\HPCHEM\1\DATA\TVH0928\034F0101.D



Sig. 1 in C:\HPCHEM\1\DATA\TVH0928\003F0101.D



Sig. 1 in C:\HPCHEM\1\DATA\TVH0928\035F0101.D

Evergreen Analytical, Inc.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS
TVH Matrix Spike/Matrix Spike Duplicate Data Report

Client Sample No. : WANG-CPT18-4.5 Client Project No. : Madison Ang
Lab Sample No. : X94607 Lab Project No. : 94-3542
Date Sampled : 9/15/94 EPA Method No. : 8015 Mod.
Date Received : 9/15/94 Matrix : Soil
Date Prepared : 9/28/94 Method Blank : MB092894
Date Analyzed : 9/28,29/94

Compound	Spike Added (mg/L)	Sample Concentration (mg/L)	MS Concentration (mg/L)	MS %REC	QC Limits %REC
Gasoline	10	0	9.6	96	60-140

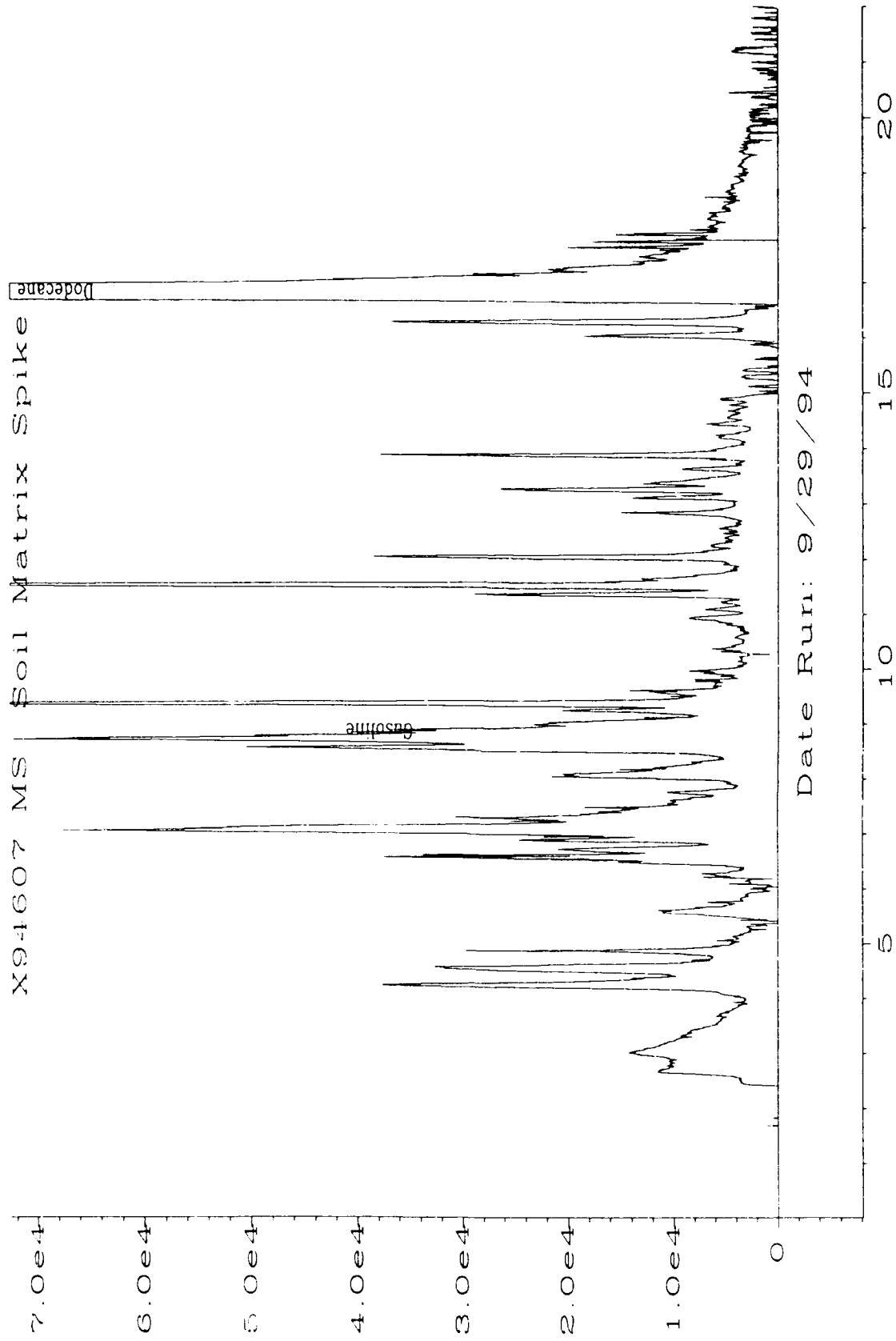
Compound	Spike Added (mg/L)	MSD Concentration (mg/L)	MS %REC	RPD	QC Limits	
					RPD	%REC
Gasoline	10	8.6	86	11.0	50	60-140

* = Values outside of QC limits.

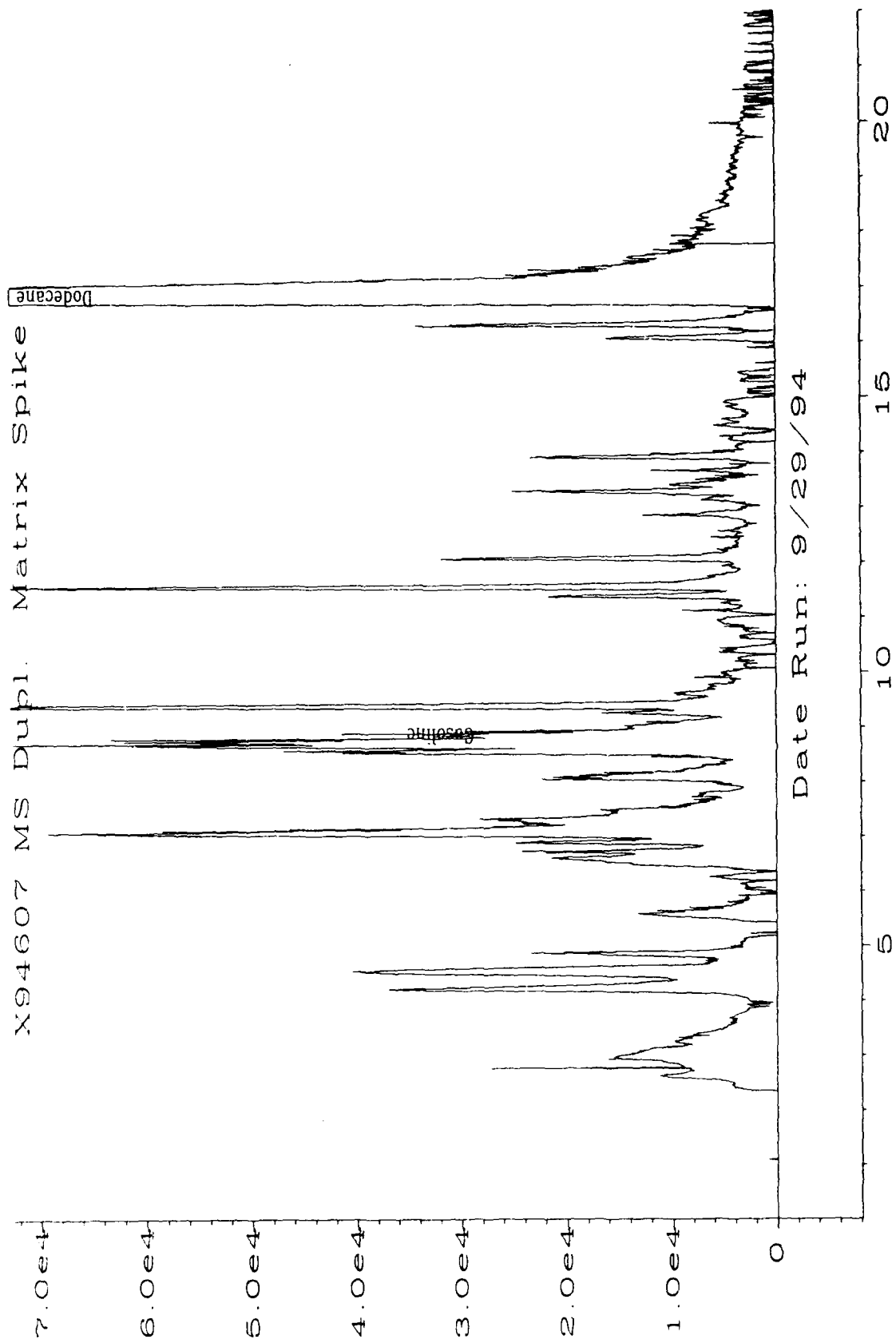
RPD: 0 out of (1) outside limits.

Spike Recovery: 0 out of (2) outside limits.

Comments: NA = Not analyzed/not applicable.



Sig. 1 in C:\HPCHEM\1\DATA\TVH0928\025F0101.D



Sig. 1 in C:\HPCHEM\1\DATA\TVH0928\026F0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS (TVH)
Laboratory Control Sample (LCS)

LCS Number : LCS092894 Client Project Number : Madison Ang
Date Prepared : 9/28/94 Lab Project Number : 94-3542
Date Analyzed : 9/29/94 Matrix : Water
Sequence Number : TVH0928 Method Number : 3500/Mod. 8015

<u>Compound Name</u>	<u>Theoretical Concentration mg/L</u>	<u>LCS Concentration mg/L</u>	<u>QC Limit mg/L</u>
Gasoline	10	10.3	7.0-13.0

QUALIFIERS

U = TEH analyzed for but not detected.

B = TEH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

NA = Not Available.

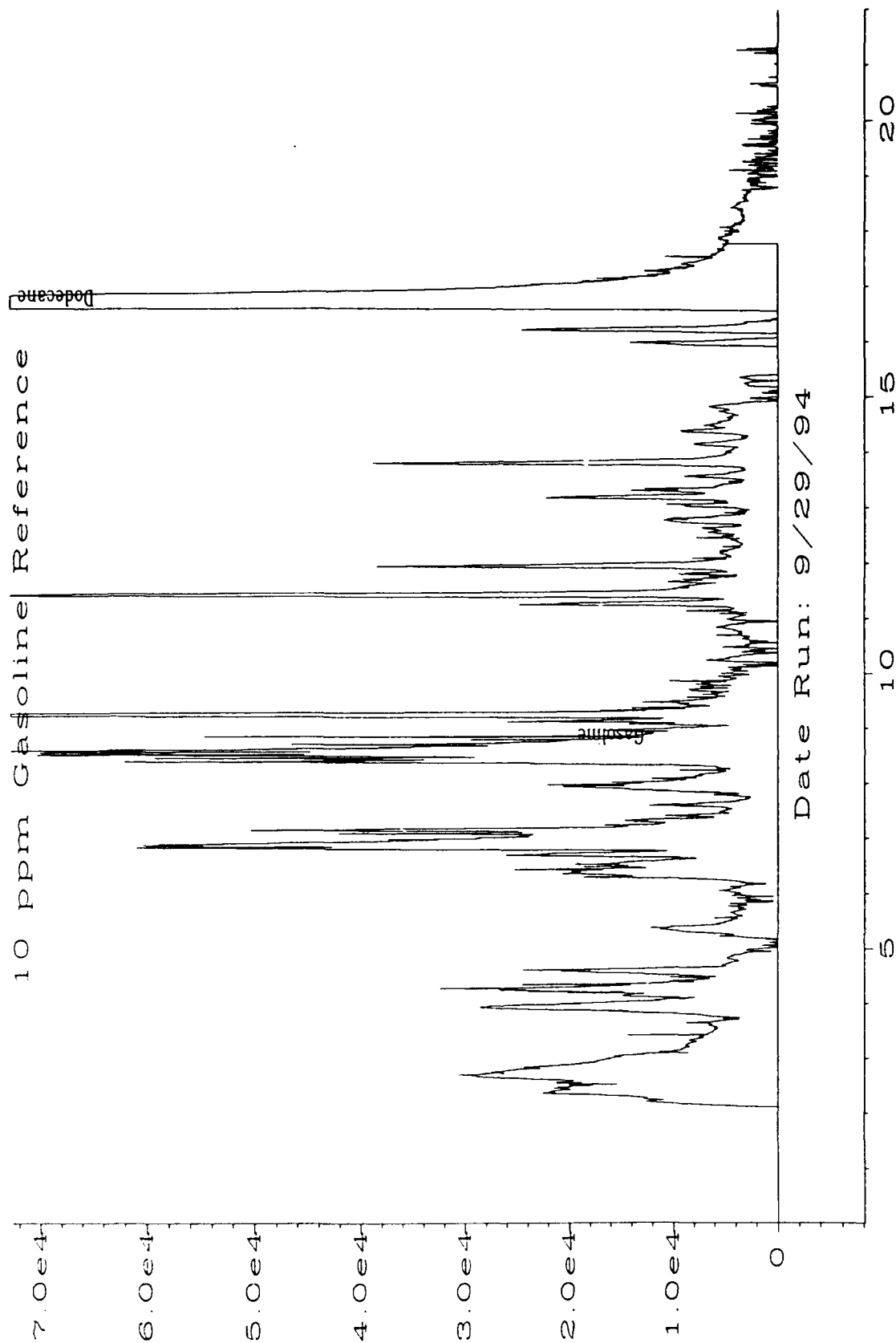


Analyst



Approved

LCS090-894



Sig. 1 in C:\HPCHEM\1\DATA\TVH0928\024F0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL EXTRACTABLE HYDROCARBONS (TEH)

Date Sampled	: 9/15/94	Client Project Number	: Madison Ang
Date Received	: 9/15/94	Lab Project Number	: 94-3542
Date Prepared	: 9/19/94	Matrix	: Soil
Date Analyzed	: 9/21,22/94	Method Number	: 3500/Mod. 8015

<u>Evergreen Sample #</u>	<u>Client Sample #</u>	<u>Surrogate Recovery</u>	<u>TEH mg/Kg</u>	<u>MDL mg/Kg</u>
SB091994	Soil Method Blank	102%	U	10
X94614	WANG-CPT-11-6.5	119%	5300	12

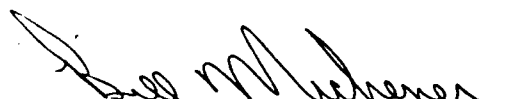
QUALIFIERS

U = TEH analyzed for but not detected.

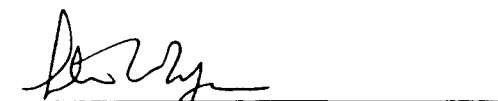
B = TEH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

MDL = Method Detection Limit



Analyst



Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL EXTRACTABLE HYDROCARBONS (TEH)

Date Sampled	: 9/15/94	Client Project Number	: Madison Ang
Date Received	: 9/15/94	Lab Project Number	: 94-3542
Date Prepared	: 9/19/94	Matrix	: Water
Date Analyzed	: 9/21,22/94	Method Number	: 3500/Mod.8015

<u>Evergreen Sample #</u>	<u>Client Sample #</u>	<u>Surrogate Recovery</u>	<u>TEH mg/L</u>	<u>MDL mg/L</u>
WB091994	Water Method Blank	125%	U	0.5
X94605	HP-CPT-3	104%	U	0.5
X94606	HP-CPT-11	110%	3.7	0.5
X94609	CPT-17D	117%	3.3	0.5
X94613	CPT-15S	114%	U	0.5
X94615	CPT-4D	110%	U	0.5

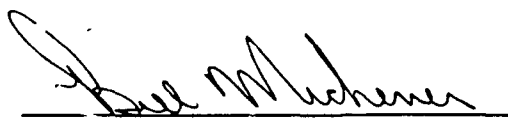
QUALIFIERS

U = TEH analyzed for but not detected.

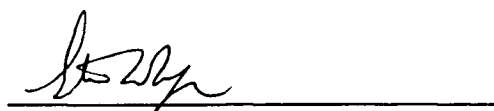
B = TEH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

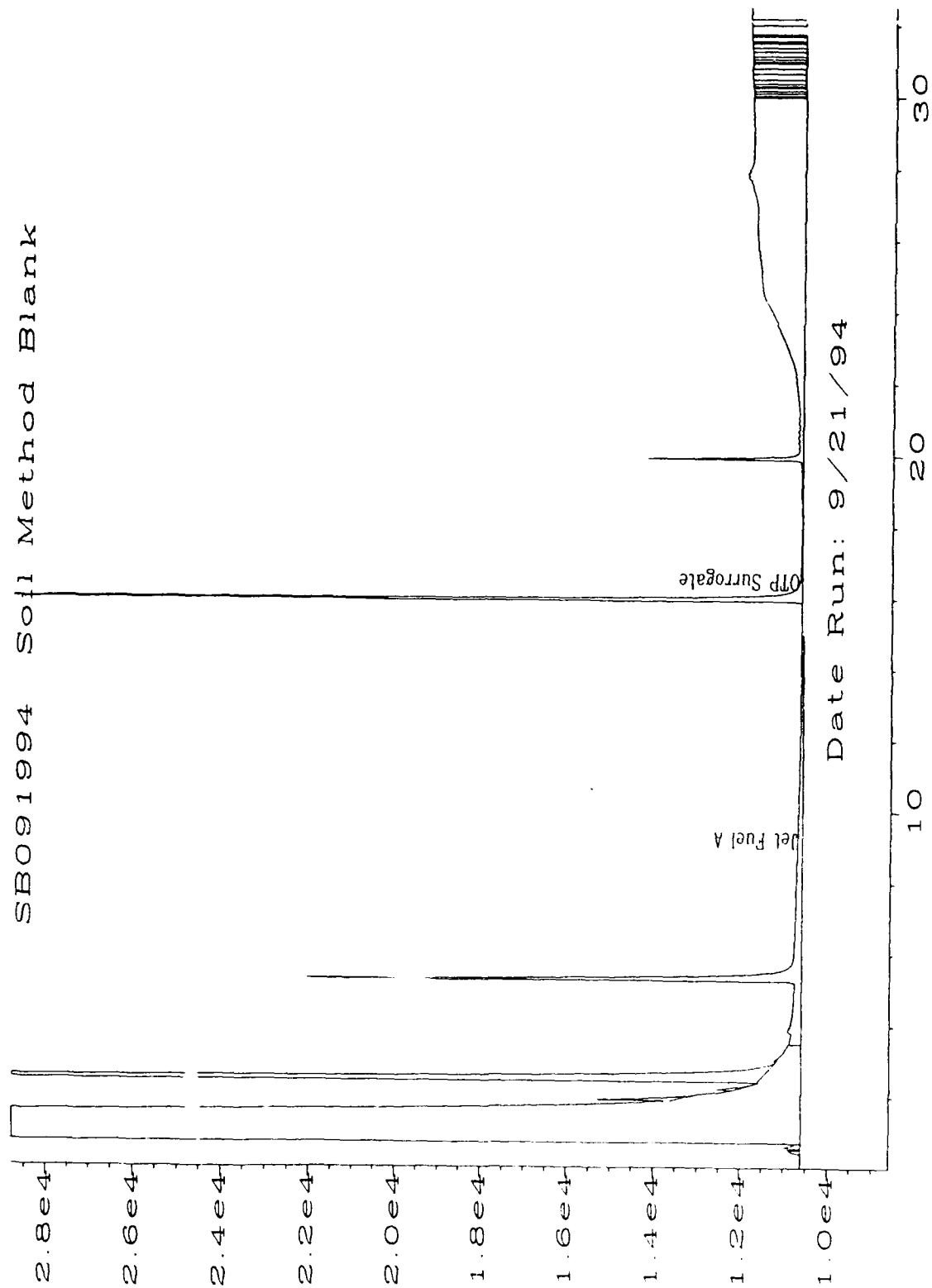
MDL = Method Detection Limit



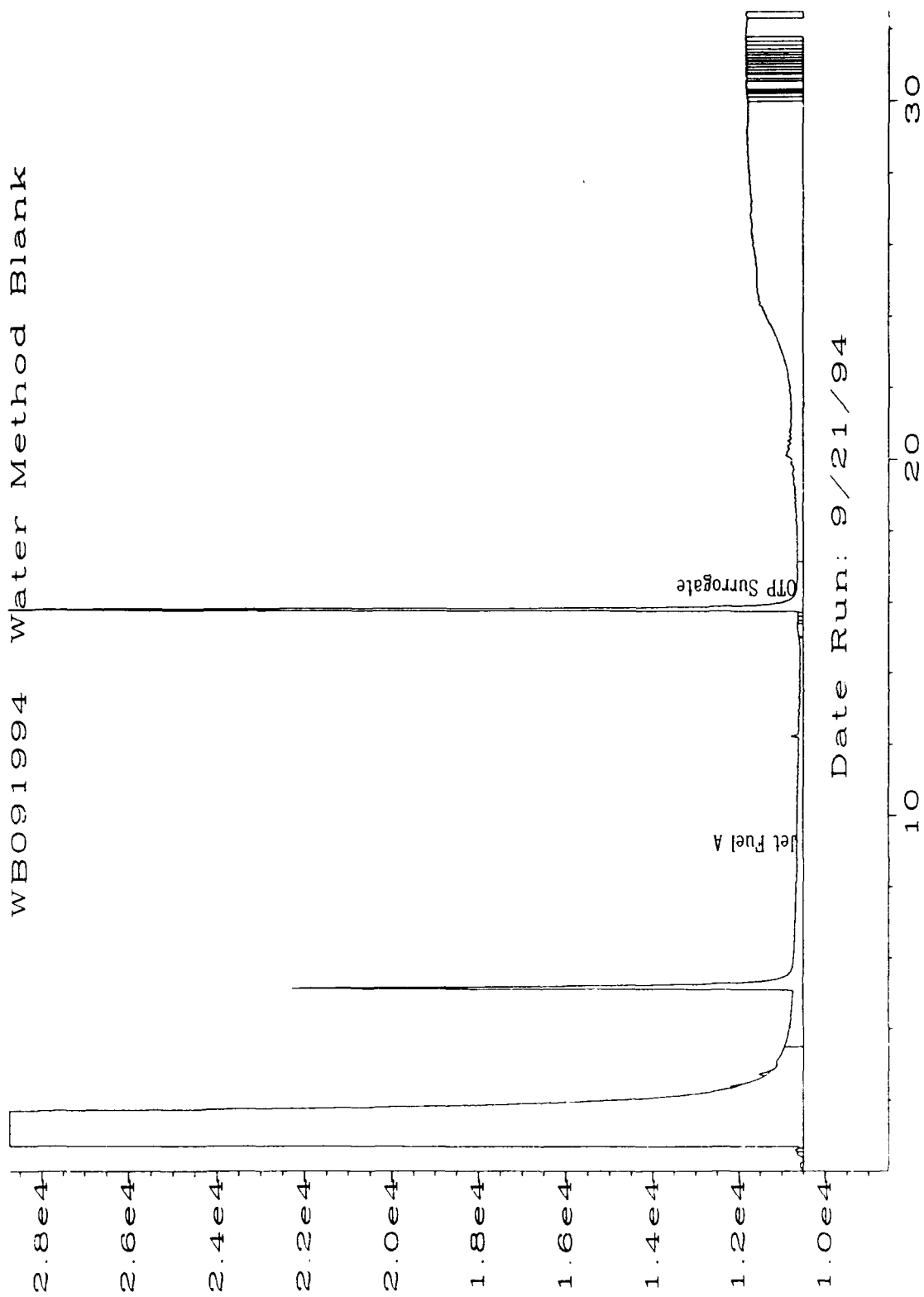
Analyst



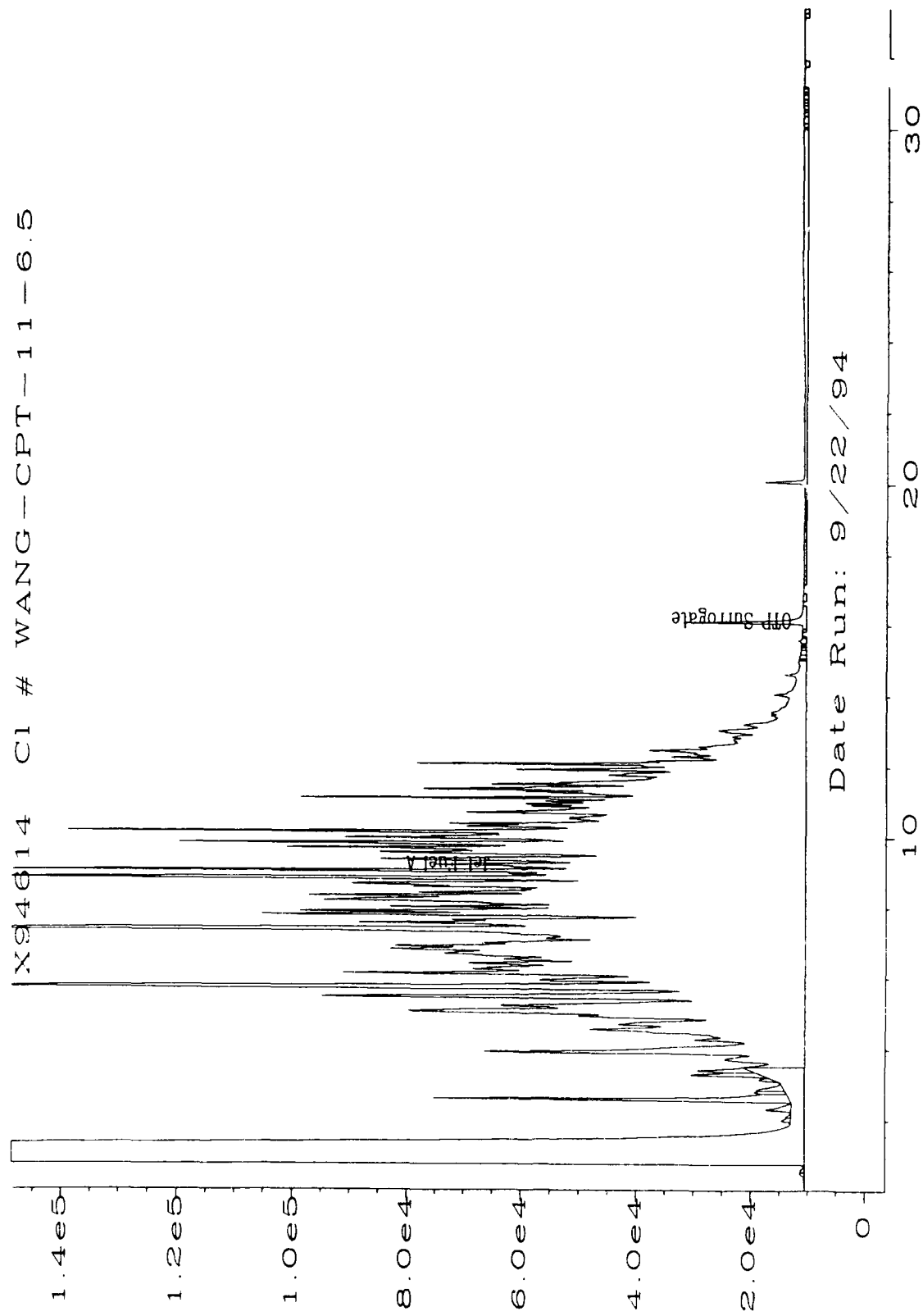
Approved



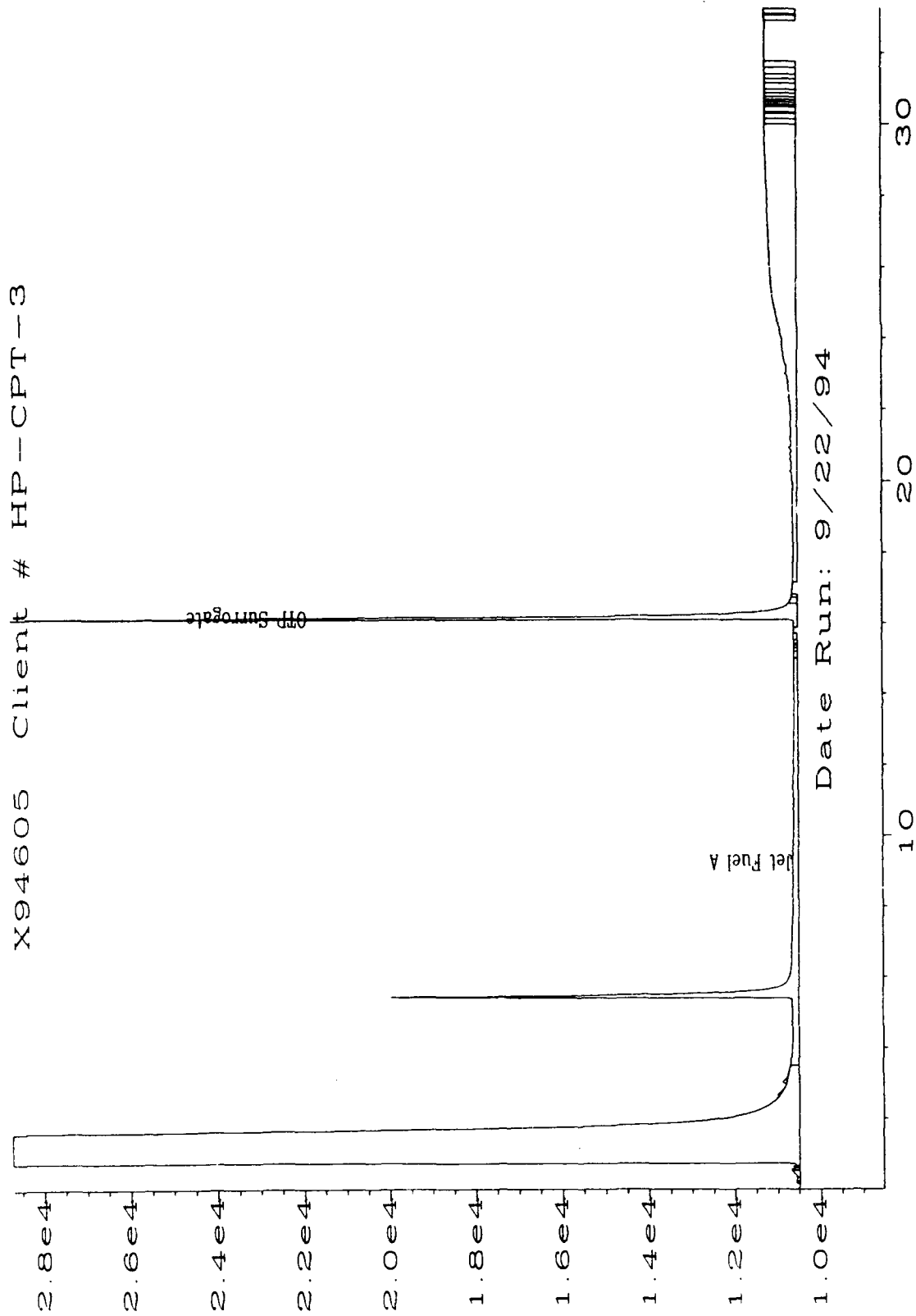
Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\010R0101.D



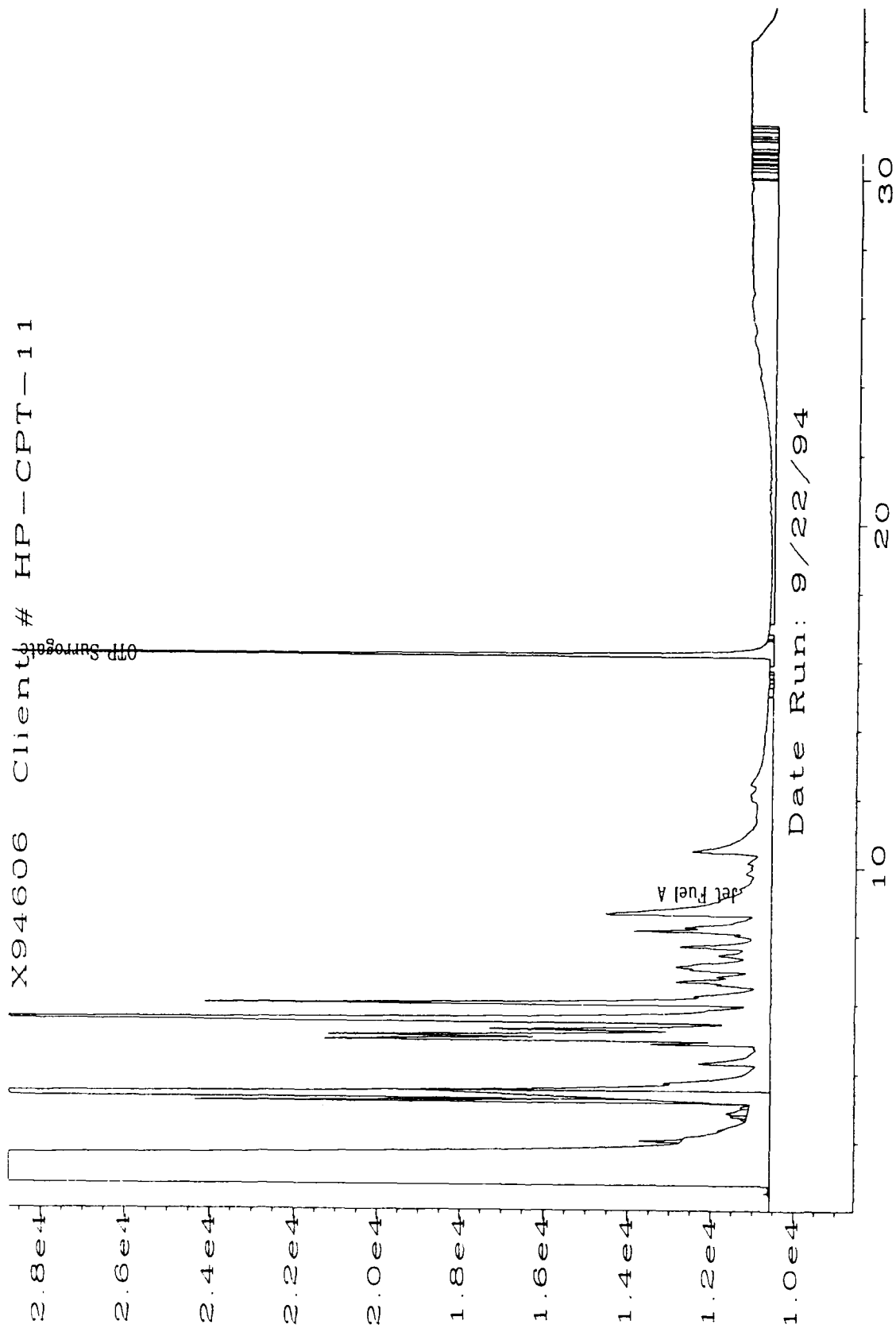
Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\013R0101.D



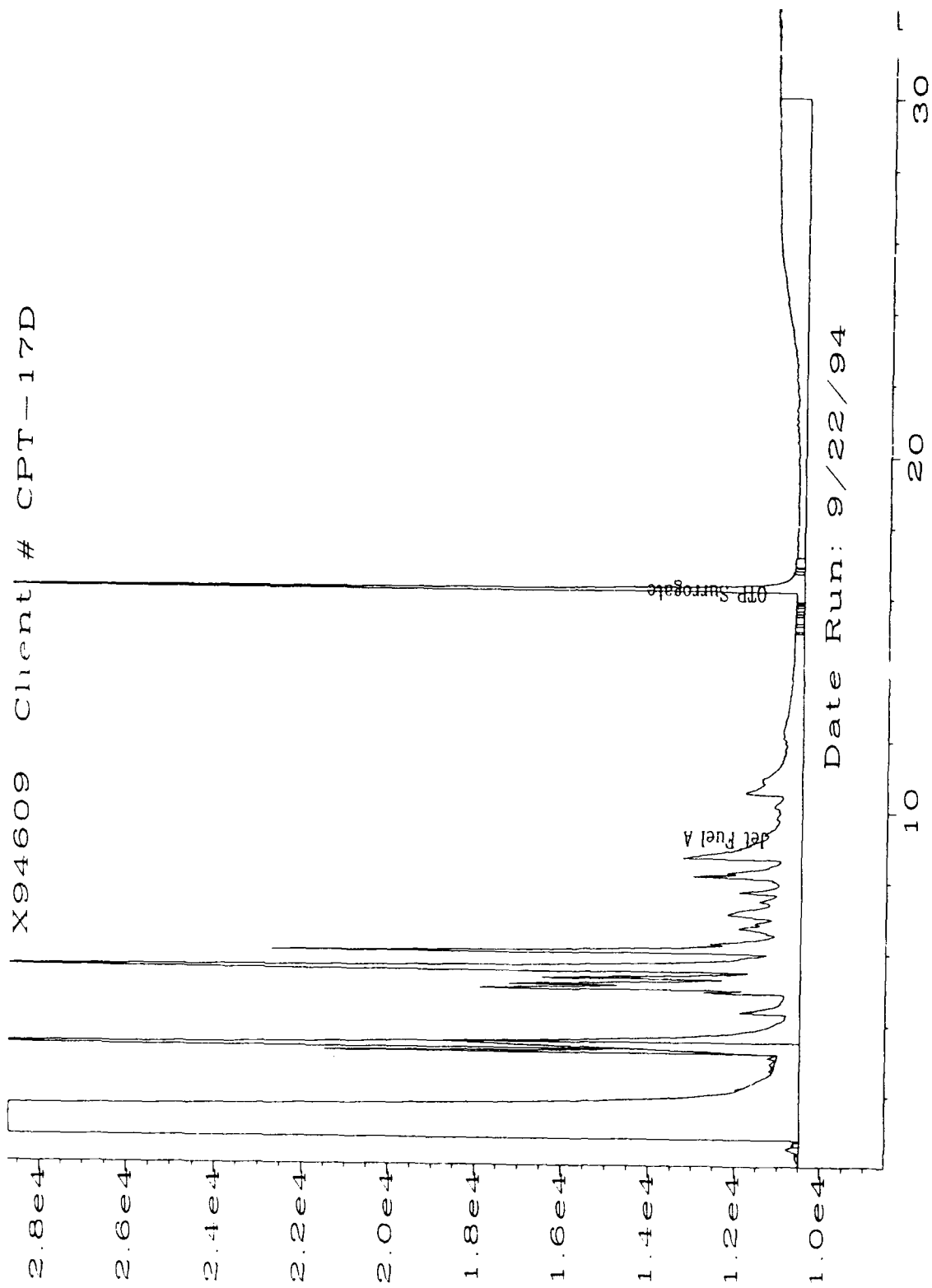
Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\039R0101.D



Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\035R0101.D

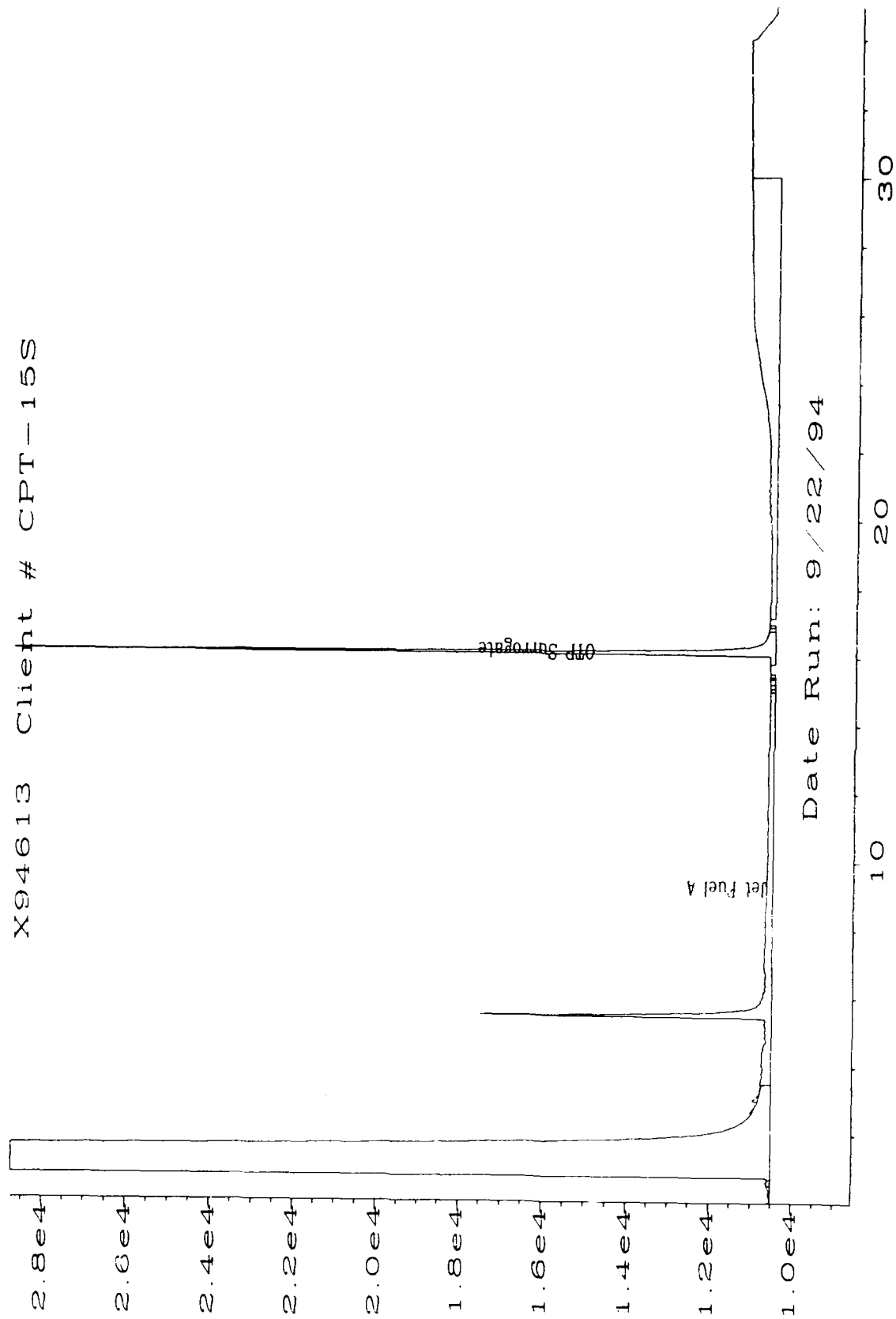


Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\036R0101.D



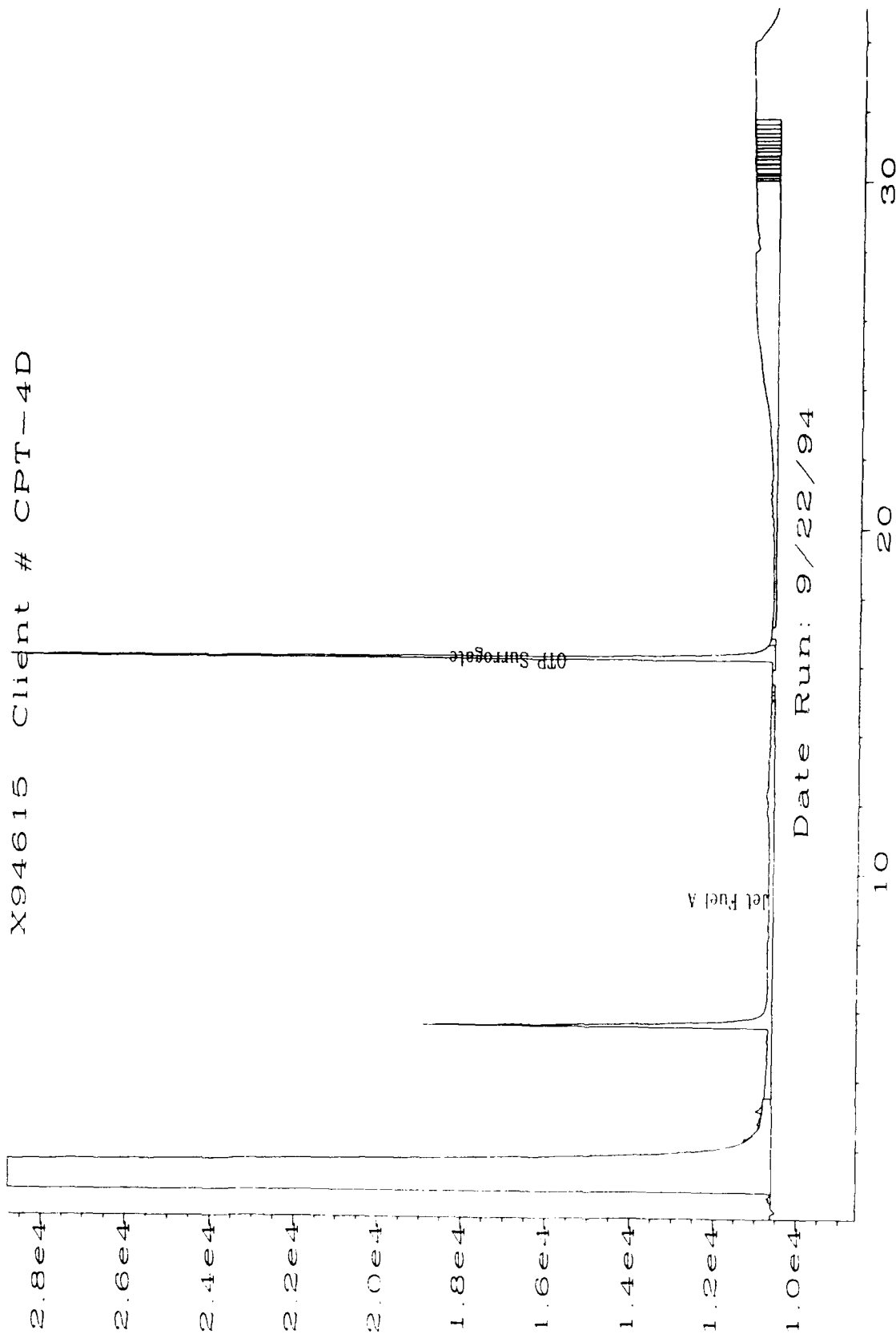
Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\037R0101.D

X94613 Client # CPT-15S



Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\038R0101.D

X94615 Client # CPT-4D



Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\040R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL EXTRACTABLE HYDROCARBONS (TEH)
Laboratory Control Sample (LCS)

LCS Number	: LCS092094*	Client Project Number	: Madison Ang
Date Prepared	: 9/21/94	Lab Project Number	: 94-3542
Date Analyzed	: 9/22/94	Matrix	: Water
Sequence Number	: TEH0920	Method Number	: 3500/Mod. 8015

<u>Compound Name</u>	<u>Theoretical Concentration mg/L</u>	<u>LCS Concentration mg/ L</u>	<u>QC Limit mg/L</u>
Jet Fuel A	2000	2706	1200-2800

QUALIFIERS

U = TEH analyzed for but not detected.

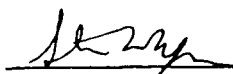
B = TEH found in blank as well as sample (blank data should be compared).

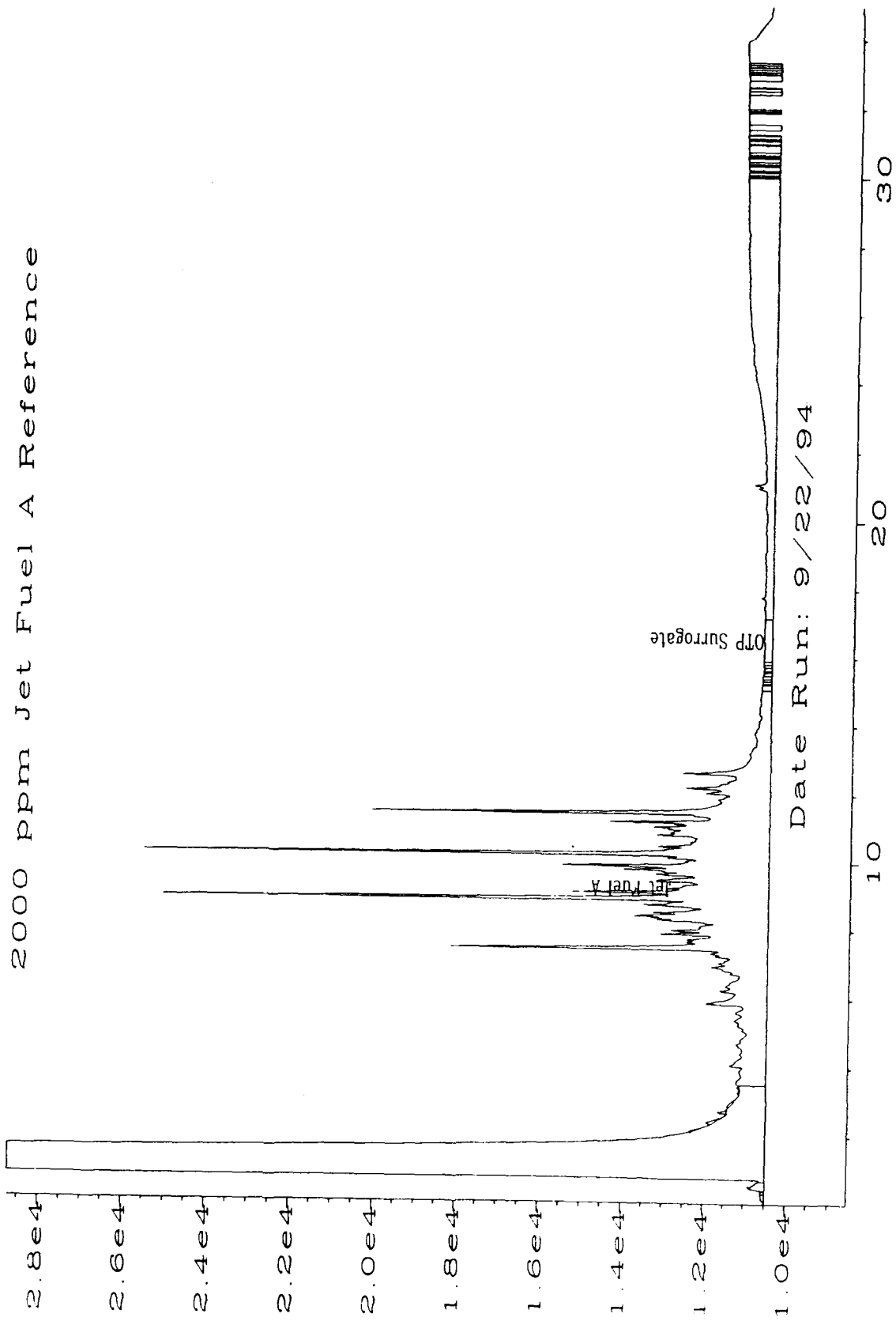
E = Extrapolated value.

NA = Not Available.

* = Direct injection, not extracted.


Analyst


Approved



Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\042R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

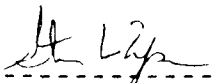
Methane Data Report

Date Sampled	: 09/15/94	Client Project No.:	Madison ANG
Date Received	: 09/15/94	Lab Project No.	: 94-3542
Date Prepared	: 09/29/94	Dilution Factor	: see below
Date Analyzed	: 09/29/94	Method	: RSKSOP-175
		Matrix	: Water

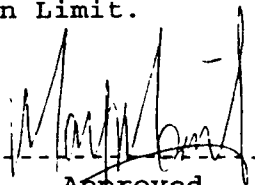
Evergreen Sample #	Client Sample #	Matrix	Concentration mg/L	EDL* mg/L
MB092994	Method Blank	Water	U	0.001 (DF=1)
x94605	HP-CPT-3	Water	U	0.001 (DF=1)
x94606	HP-CPT-11	Water	3.84	0.005 (DF=5)
x94609	CPT-17D	Water	5.2	0.01 (DF=10)
x94611	CPT-18S	Water	U	0.001 (DF=1)
x94613	CPT-15S	Water	0.01	0.001 (DF=1)
x94615	CPT-4D	Water	0.76	0.005 (DF=5)

QUALIFIERS:

U = Compound analyzed for, but not detected above the
Estimated Detection Limit.
B = Compound also found in the blank, blank data should be
compared.
* = Indicates the Estimated Detection Limit.
E = Extrapolated value.

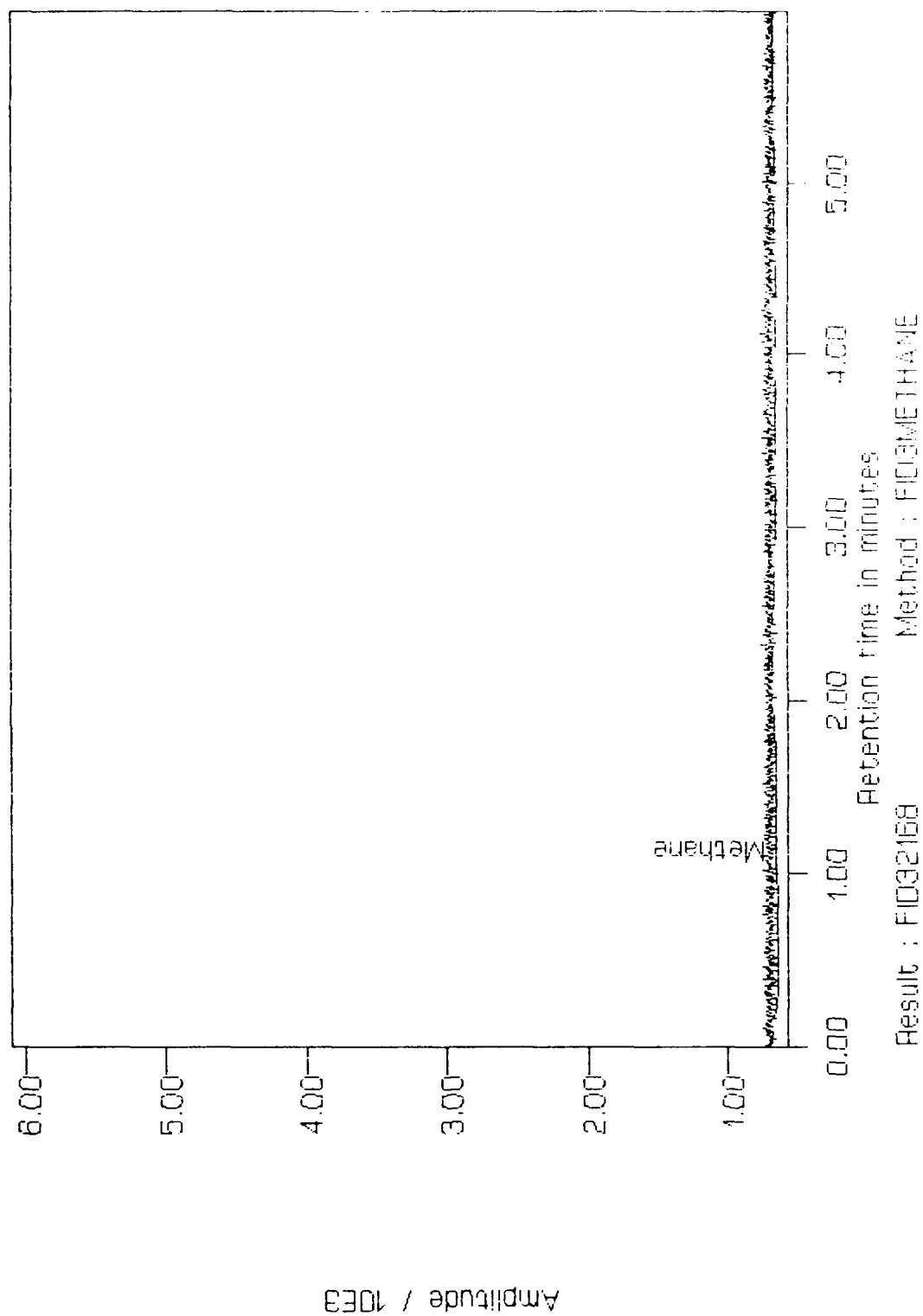


Analyst

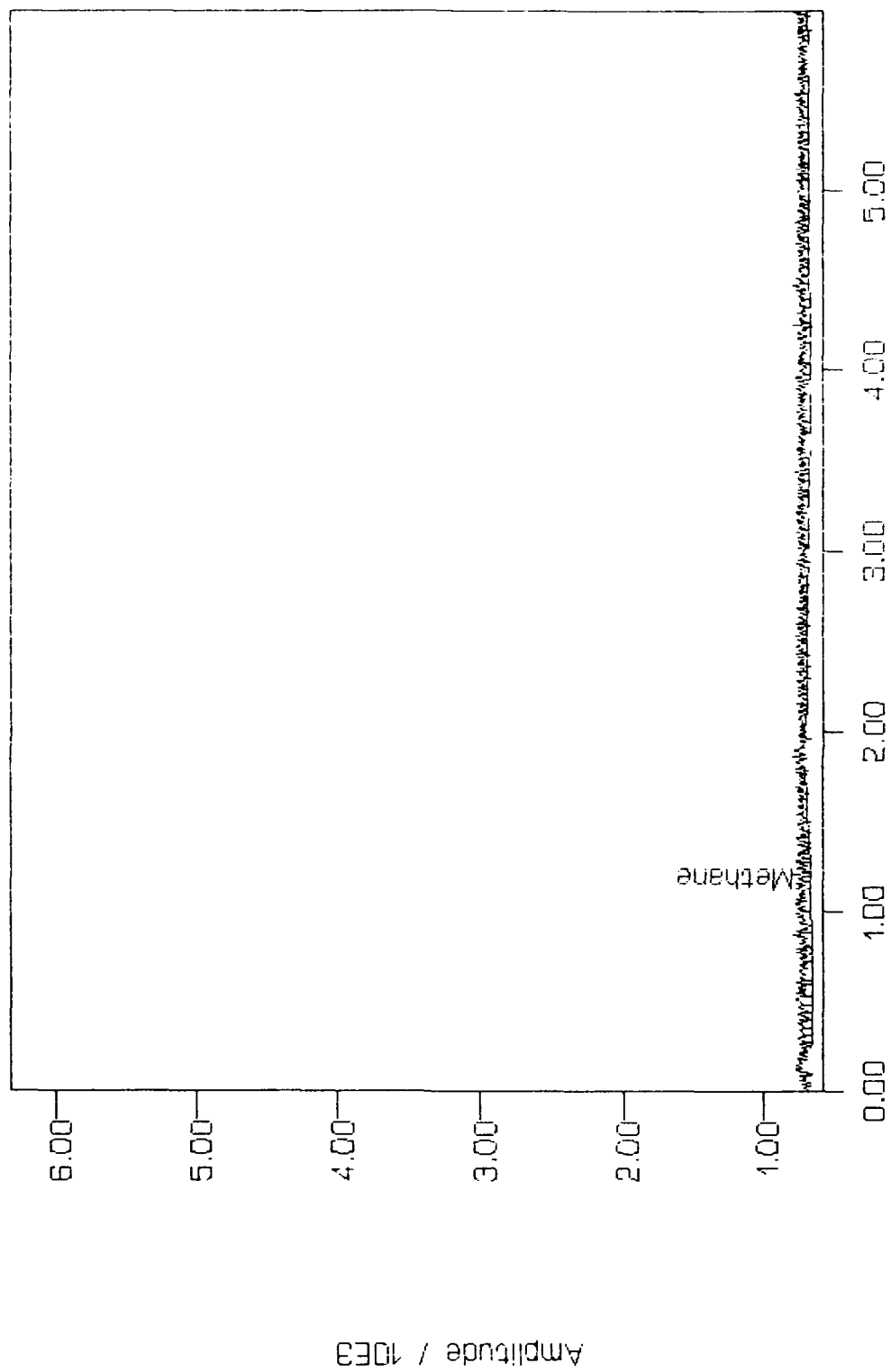


Approved

Sample : MB092994 Method Blank Injected : THU SEP 29, 1994 2:06:21 PM

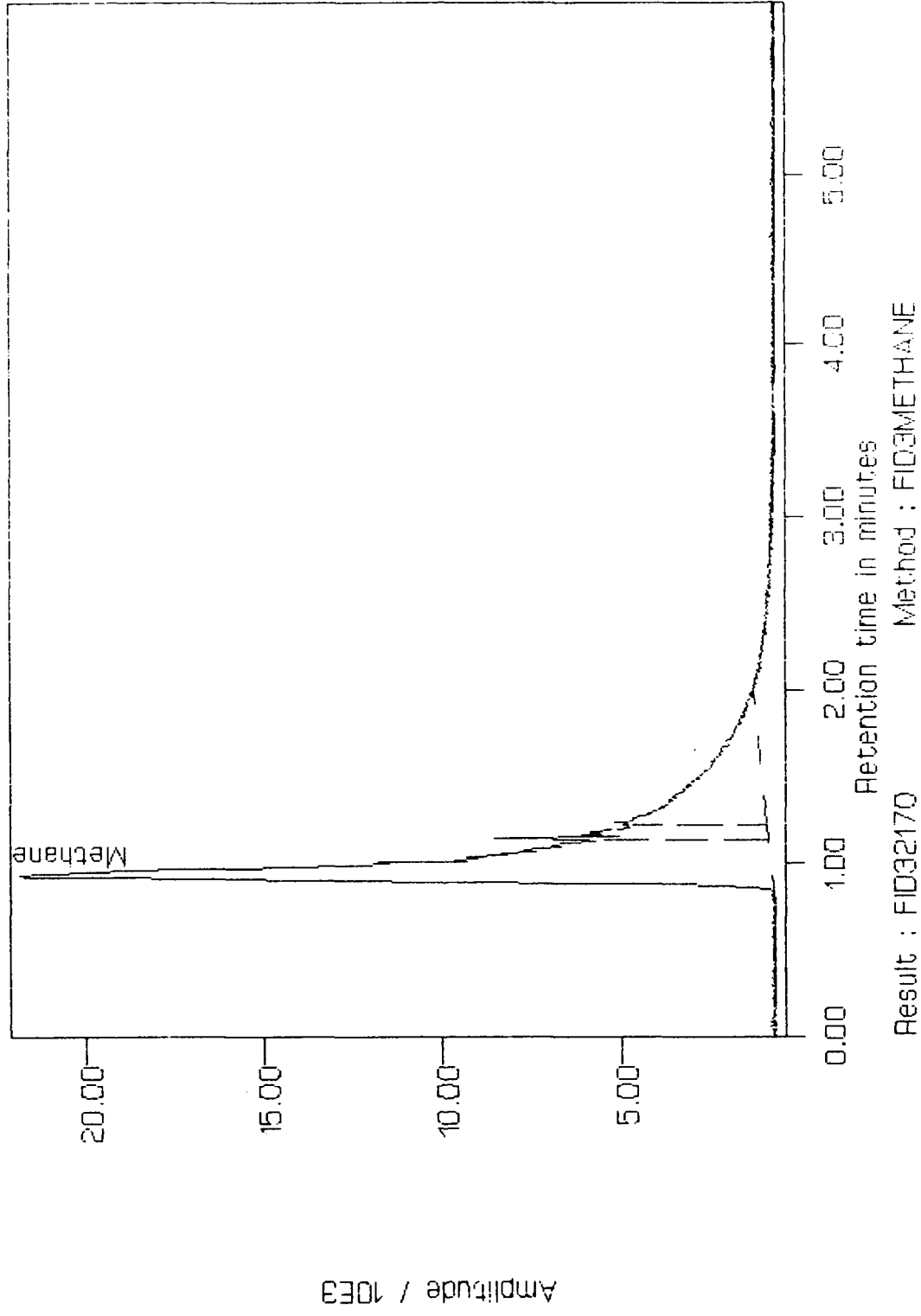


Sample : x94605 @ 71.6 F Client # HP-CPT-3 Injected : THU SEP 29, 1994

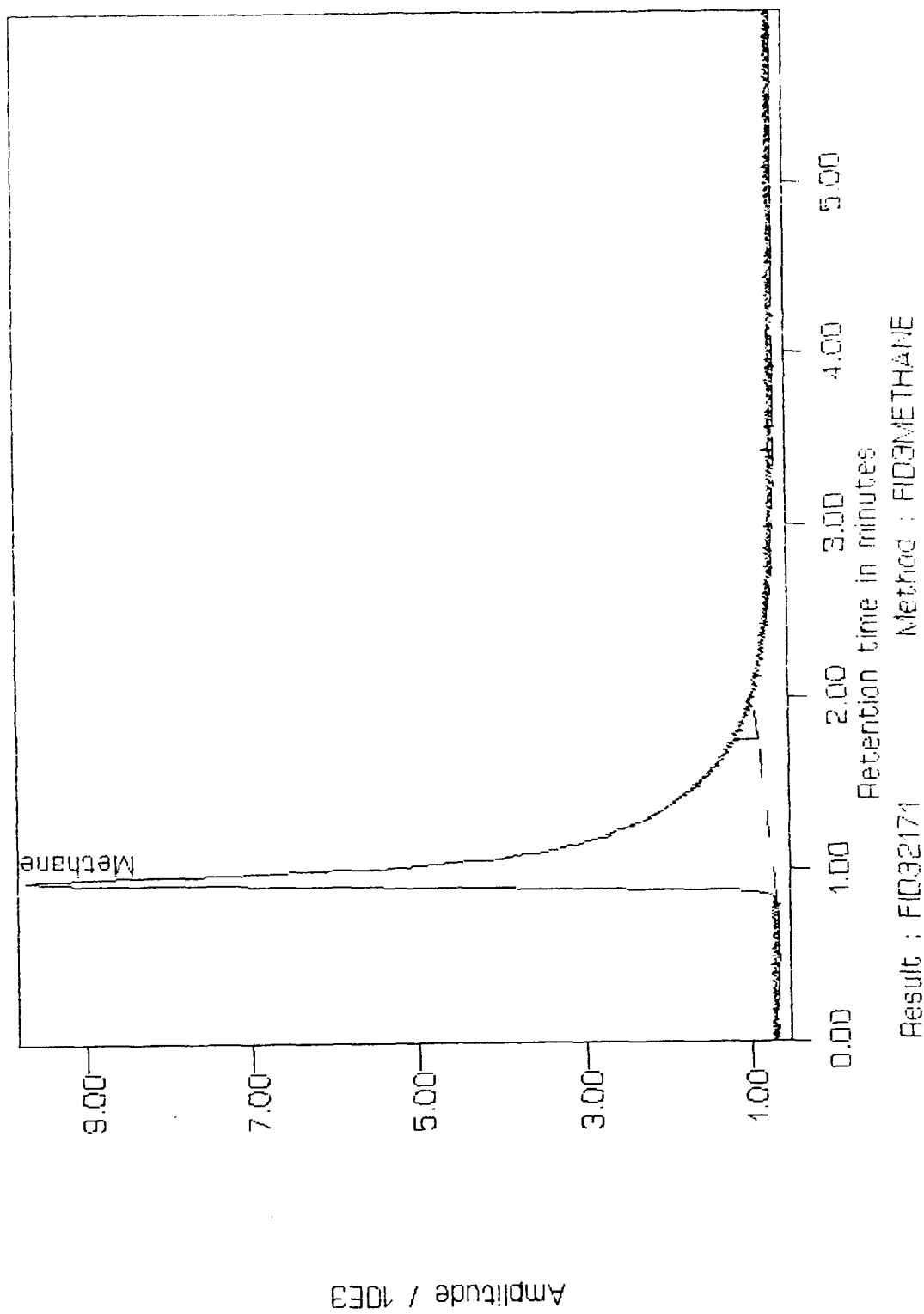


Result : FID32169 Method : FID3METHANE

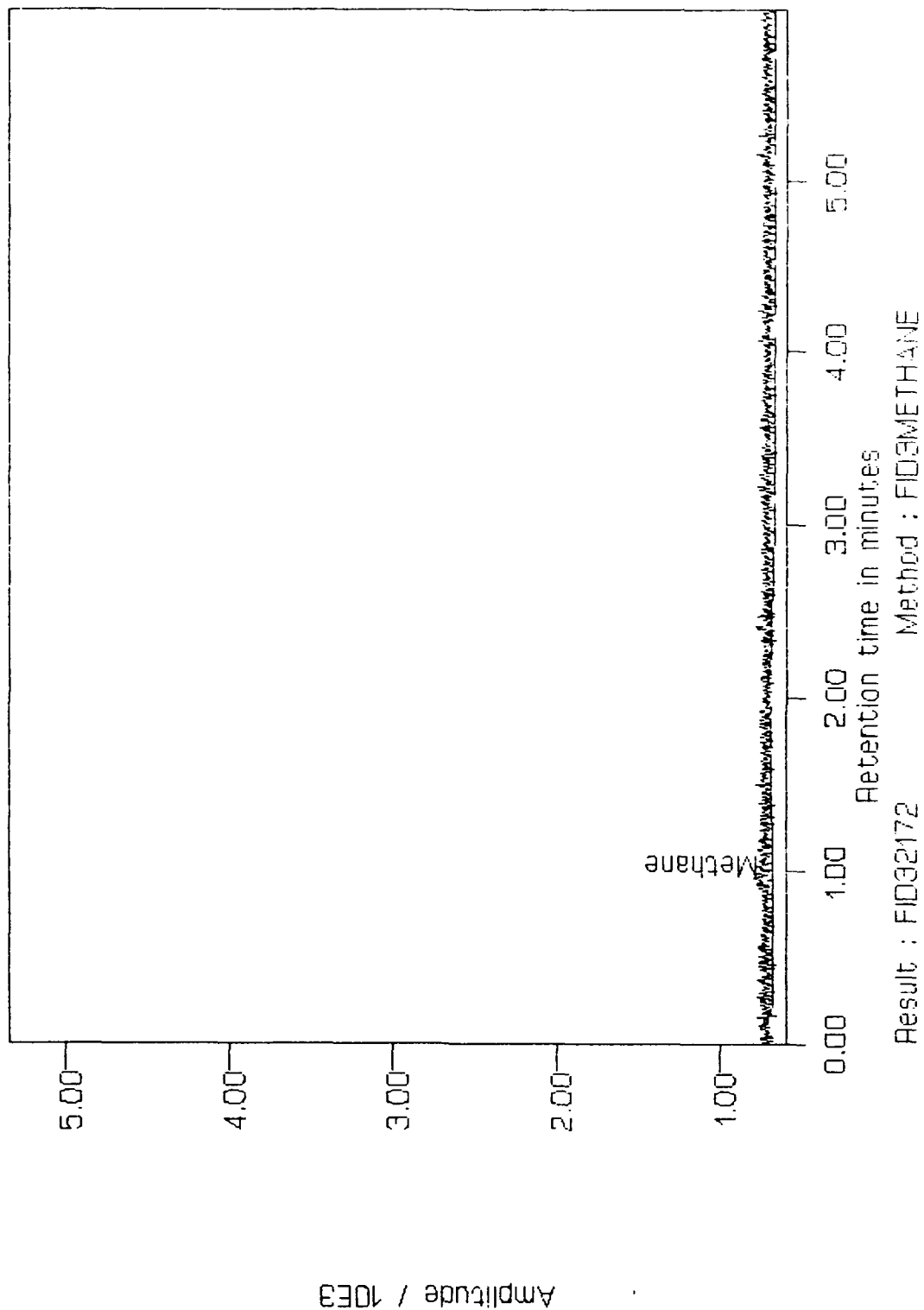
Sample : X94606 @ 73.6 F DF=5 CI# HP-CPT-11 Injected : THU SEP 29, 1993.



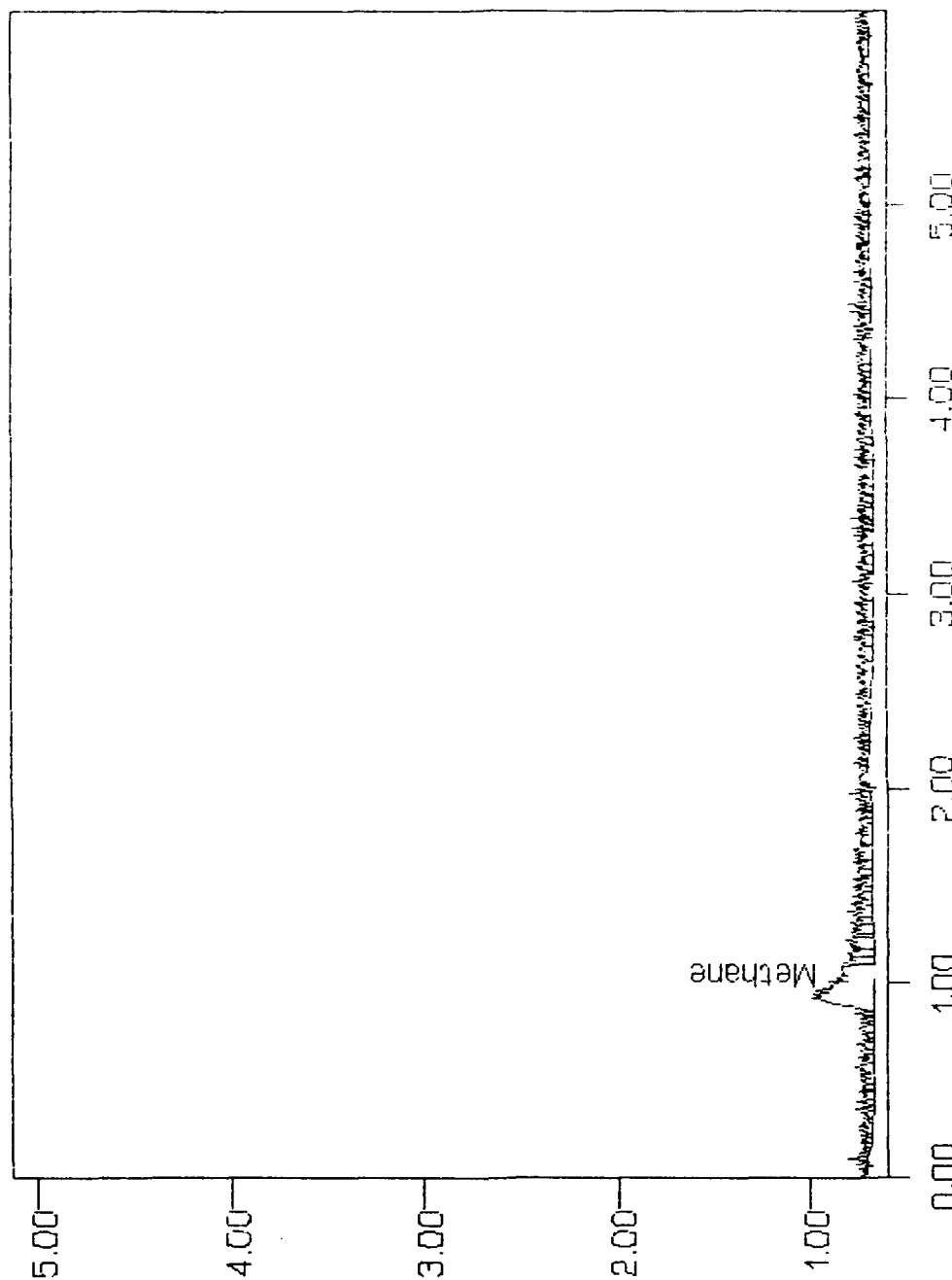
Sample : x94609 @ 77.6 F DF=10 CI# CPT-170 Injected THU SEP 29, 1994



Sample : x94611 @ 78.5 F Client # CPT-16S Injected : THU SEP 29, 1994 4:1

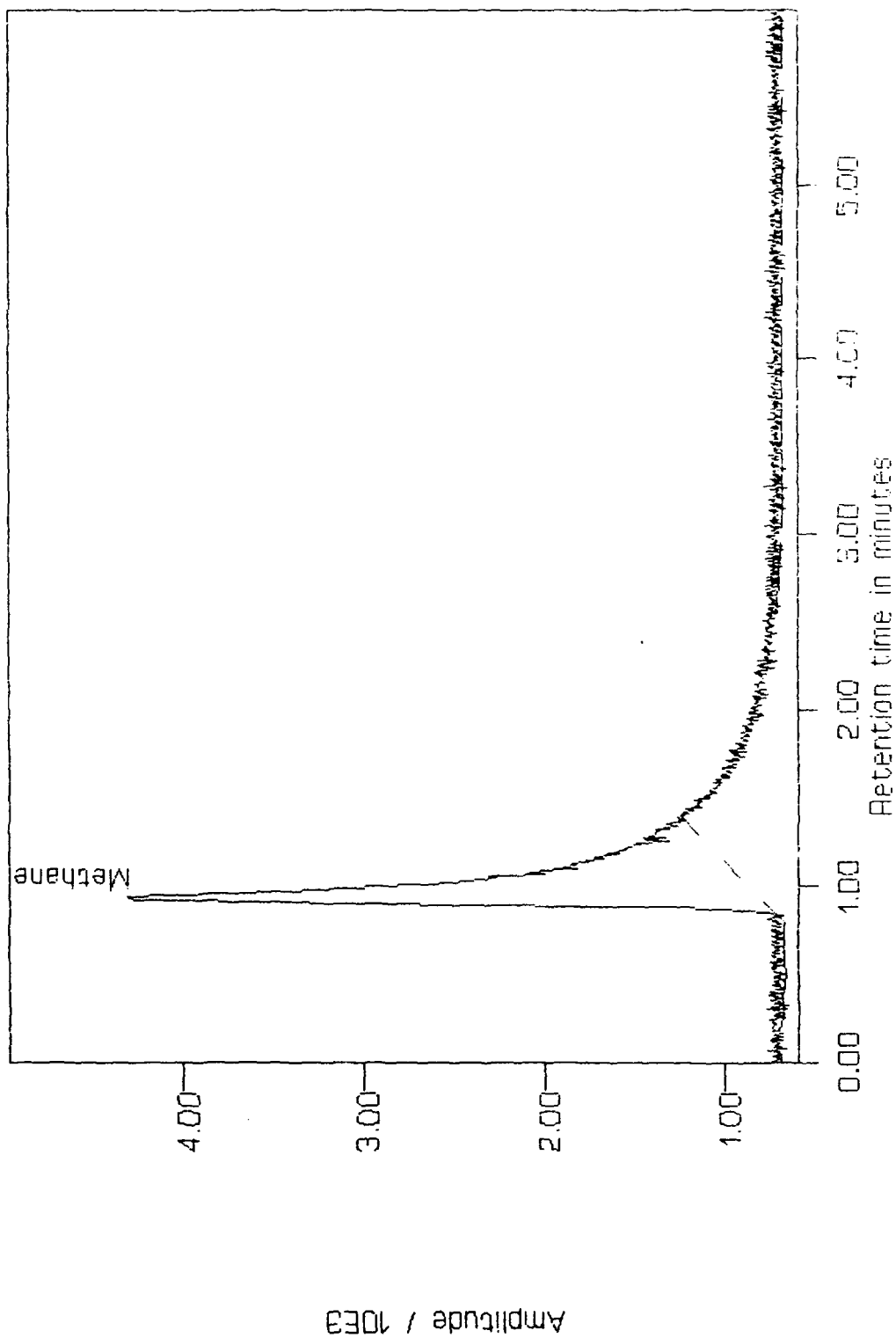


Sample : x94613 @ 79 F Client # CPT-155 Injected : THU SEP 29, 1994 5:25



Result : FID32173 Method : FID3METHANE

Sample : x94615 @ 80.2 F DF=5 CI# CPT-4D Injected : THU SEP 29, 1994



Result : FID32174 Method : FIDMETHANE

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303)425-6021

Anions

Date Sampled : 9/15/94
Date Received : 9/15/94
Date Prepared : 9/16/94
Date Analyzed : 9/16/94

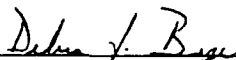
Client Project ID. : Madison ANG
Lab Project No. : 94-3542
Method : EPA 300.0
Matrix : Water

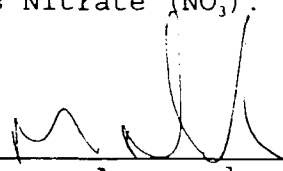
<u>Evergreen</u> <u>Sample #</u>	<u>Client</u> <u>Sample ID</u>	<u>Nitrate as N (mg/L)</u>
X94605	HP-CPT-3	4.47
X94606	HP-CPT-11	0.146
X94609	CPT-17D	0.062
X94611	CPT-18S	1.88
X94613	CPT-15S	0.100
X94615	CPT-4D	0.370
X94615 (dup)	CPT-4D Dup	0.382
Method Blank (9/16/94)		<0.056

Quality Assurance *

		<u>Spike</u> <u>Amount</u> <u>(mg/L)</u>	<u>Sample</u> <u>Result</u> <u>(mg/L)</u>	<u>Spike</u> <u>Result</u> <u>(mg/L)</u>	<u>%</u> <u>Recovery</u>
X94605	HP-CPT-3	10.0	19.8	29.7	99.3
Matrix Spike					
X94605	HP-CPT-3	10.0	19.8	29.1	93.4
Matrix Spike Dup					
MS/MSD	RPD				6.12
X94615/X94615 Dup	RPD				3.01

* = Quality assurance results reported as Nitrate (NO₃).


Analyst


Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Anions

Date Sampled : 9/15/94 Client Project ID. : Madison ANG
Date Received : 9/15/94 Lab Project No. : 94-3542
Date Prepared : 9/16/94 Method : EPA 300.0
Date Analyzed : 9/16/94 Matrix : Water

<u>Evergreen Sample #</u>	<u>Client Sample ID</u>	<u>Nitrite as N (mg/L)</u>
X94605	HP-CPT-3	<0.076
X94606	HP-CPT-11	<0.076
X94609	CPT-17D	<0.076
X94611	CPT-18S	<0.076
X94613	CPT-15S	<0.076
X94615	CPT-4D	<0.076
X94615 (dup)	CPT-4D Dup	<0.076
Method Blank (9/16/94)		<0.076

Quality Assurance *

		<u>Spike Amount (mg/L)</u>	<u>Sample Result (mg/L)</u>	<u>Spike Result (mg/L)</u>	<u>% Recovery</u>
X94605	HP-CPT-3	10.0	<0.250	9.61	96.1
Matrix Spike					
X94605	HP-CPT-3	10.0	<0.250	9.33	93.3
Matrix Spike Dup					
MS/MSD	RPD				2.96
X94615/X94615 Dup	RPD				NC

NC = Not calculated because sample and/or sample duplicate
is below detection limit.

* = Quality assurance results reported as nitrite (NO₂).

Debra L. Byers
Analyst

[Signature]
Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303)425-6021

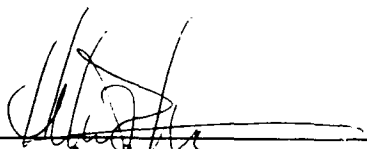
Anions

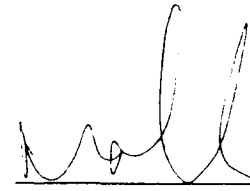
Date Sampled : 9/15/94 Client Project ID. : Madison ANG
Date Received : 9/15/94 Lab Project No. : 94-3542
Date Prepared : 9/16,17/94 Method : EPA 300.0
Date Analyzed : 9/16,17/94 Matrix : Water

<u>Evergreen</u> <u>Sample #</u>	<u>Client</u> <u>Sample ID</u>	<u>Sulfate (mg/L)</u>
X94605	HP-CPT-3	29.0
X94606	HP-CPT-11	2.85
X94609	CPT-17D	4.73
X94611	CPT-18S	113
X94613	CPT-15S	24.7
X94615	CPT-4D	7.94
X94615 (dup)	CPT-4D Dup	8.12
Method Blank (9/16/94)		<0.250
Method Blank (9/17/94)		<0.250

Quality Assurance

		<u>Spike</u> <u>Amount</u> <u>(mg/L)</u>	<u>Sample</u> <u>Result</u> <u>(mg/L)</u>	<u>Spike</u> <u>Result</u> <u>(mg/L)</u>	<u>%</u> <u>Recovery</u>
X94605	HP-CPT-3	10.0	29.0	37.2	81.9
Matrix Spike					
X94605	HP-CPT-3	10.0	29.0	37.0	80.6
Matrix Spike Dup					
MS/MSD	RPD				1.60
X94615/X94615 Dup	RPD				2.24


Analyst


Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Anions

Date Sampled : 9/15/94 Client Project ID. : Madison ANG
Date Received : 9/15/94 Lab Project No. : 94-3542
Date Prepared : 9/20/94 Method : EPA 300.0
Date Analyzed : 9/20/94 Matrix : Water

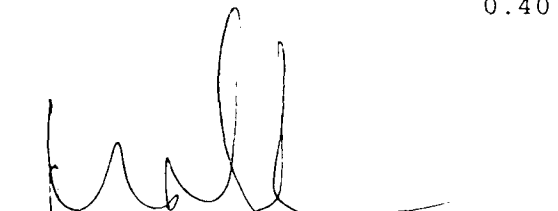
<u>Evergreen</u> <u>Sample #</u>	<u>Client</u> <u>Sample ID</u>	<u>Chloride (mg/L)</u>
X94605	HP-CPT-3	3.63
X94606	HP-CPT-11	6.22
X94609	CPT-17D	7.76
X94611	CPT-18S	1.95
X94613	CPT-15S	11.7
X94615	CPT-4D	4.99
X94615(dup)	CPT-4D Dup	4.97
Method Blank (9/20/94)		<0.250

Quality Assurance

	<u>Spike</u> <u>Amount</u> <u>(mg/L)</u>	<u>Sample</u> <u>Result</u> <u>(mg/L)</u>	<u>Spike</u> <u>Result</u> <u>(mg/L)</u>	<u>%</u> <u>Recovery</u>
X94615 CPT-4D Matrix Spike	10.0	4.99	14.80	98.1
X94615 CPT-4D Matrix Spike Dup	10.0	4.99	14.43	94.4
MS/MSD RPD				3.84
X94615/X94615 Dup RPD				0.40



Analyst



Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Miscellaneous Analyses

Date Sampled : 9/15/94 Client Project ID. : Madison ANG
Date Received : 9/15/94 Lab Project No. : 94-3542
Date Prepared : 9/22/94 Matrix : 5.00 mgCaCO₃/L
Date Analyzed : 9/22/94 Method : EPA 310.1

<u>Evergreen Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Total Alkalinity (mgCaCO₃/L)</u>
X94605	HP-CPT-3	Water	369
X94605 Dup	HP-CPT-3 Dup	Water	369
X94606	HP-CPT-11	Water	358
X94609	CPT-17D	Water	251
X94613	CPT-15S	Water	459
X94615	CPT-4D	Water	415
Method Blank (9-22-94)			<5.00

Quality Assurance

	<u>Ture Value (mgCaCO₃/L)</u>	<u>Result (mgCaCO₃/L)</u>	<u>% Recovery</u>
Spex Reference Lot WP 1290 Minerals	24.2	21.8	90.0
X94605/X94605 dup RPD			0.0

Debra J. Byrum
Analyst

[Signature]
Approved

3542tm.4

HUFFMAN

LABORATORIES, INC.

Quality Analytical Services Since 1936

4630 Indiana Street • Golden, CO 80403

ION-CLP ANALYSIS RESULTS

Date: 10/26/94 rev01

Lab Name: Huffman Labs

Client: Evergreen Analytical

Contact: Sue Zeller

Contact: Mark Mensik

Sample Matrix: soils

Huffman Lab #: 273494

Client Smp#	Lab ID #	Element/Compound	Dilution Factor	Results	Units	Prep Date	Analysis Date	Sample Size (g)	Method #	Instrument ID
WANG-CPT2-7	27349401	TC	NA	2.20	%	NA	10/08/94	0.851	Leco CR12	#7
WANG-CPT2-7	27349401	TC	NA	2.81	%	NA	10/08/94	0.565	Leco CR12	#7
WANG-CPT3-5	27349402	TC	NA	2.13	%	NA	10/08/94	0.359	Leco CR12	#7
WANG-CPT3-5*	27349403	TC	NA	3.36	%	NA	10/08/94	0.489	Leco CR12	#7
WANG-CPT9-5.5	27349404	TC	NA	2.81	%	NA	10/08/94	0.415	Leco CR12	#7
WANG-CPT18-4.5	27349405	TC	NA	0.93	%	NA	10/08/94	0.510	Leco CR12	#7
WANG-CPT2-7	27349401	CC	NA	1.68	%	NA	10/05/94	0.070	COU-02	#3
WANG-CPT2-7	27349401	CC	NA	2.27	%	NA	10/05/94	0.072	COU-02	#3
WANG-CPT3-5	27349402	CC	NA	2.05	%	NA	10/05/94	0.078	COU-02	#3
WANG-CPT3-5*	27349403	CC	NA	3.32	%	NA	10/05/94	0.030	COU-02	#3
WANG-CPT9-5.5	27349404	CC	NA	3.00	%	NA	10/05/94	0.034	COU-02	#3
WANG-CPT18-4.5	27349405	CC	NA	0.75	%	NA	10/05/94	0.063	COU-02	#3
WANG-CPT2-7	27349401	TOC	NA	0.52	%	NA	NA	NA	by calc	NA
WANG-CPT2-7	27349401	TOC	NA	0.54	%	NA	NA	NA	by calc	NA
WANG-CPT3-5	27349402	TOC	NA	0.08	%	NA	NA	NA	by calc	NA
WANG-CPT3-5*	27349403	TOC	NA	<0.05	%	NA	NA	NA	by calc	NA
WANG-CPT9-5.5	27349404	TOC	NA	<0.05	%	NA	NA	NA	by calc	NA
WANG-CPT18-4.5	27349405	TOC	NA	0.18	%	NA	NA	NA	by calc	NA

*(MS/MSD)

Samples analyzed and results reported on as as received basis.

Soil samples are not homogeneous.

TC detection limit = 0.05%

CC detection limit = 0.02%

TOC detection limit = 0.05%

Client Smp#	Lab ID #	Element/Compound	Dilution Factor	Results	Units	Prep Date	Analysis Date	Sample Size (ml)	Method #	Instrument ID
CPT-1D	27349406	DOC	NA	8.6	mg/L	NA	10/08/94	10	SM5310D	#6
CPT-1D	27349406	DOC	NA	8.7	mg/L	NA	10/08/94	10	SM5310D	#6
HP-CPT-3	27349407	DOC	NA	2.5	mg/L	NA	10/08/94	10	SM5310D	#6

DOC detection limit = 0.5 mg/L

HUFFMAN

LABORATORIES, INC.

Quality Analytical Services Since 1936

4630 Indiana Street • Golden, CO 80403

NON-CLP ANALYSIS RESULTS

LABORATORY CONTROL STANDARD

Date: 10/26/94 rev01 Client: Evergreen Analytical
Lab Name: Huffman Labs Contact: Mark Mensik
Contact: Sue Zeller Huffman Lab #: 273494

LABORATORY CONTROL STANDARD

Lab ID #	Source	Element/ Compound	True Value	Found Value	% R	Units	Date	Method #	Instrument ID
LCS	BN 4384	TC	3.35	3.37	101	%	10/08/94	Leco CR12	#7
LCS	BN 4056	CC	11.33	11.28	100	%	10/05/94	COU-02	#3
LCS	BN 99	DOC	5	5.8	116	mg/L	10/08/94	SM 53100	#6

SPIKE RECOVERY

Lab ID #	Source	Element/ Compound	True Value	Found Value	% R	Units	Date	Method #	Instrument ID
SPIKE	BN 3716	TC	12840	12309	96	ug C	10/08/94	Leco CR12	#7
SPIKE DUP	BN 3716	TC	14880	15608	105	ug C	10/08/94	Leco CR12	#7
SPIKE	BN 3716	CC	1310	1410	108	ug C	10/05/94	COU-02	#3
SPIKE DUP	BN 3716	CC	1174	1264	108	ug C	10/05/94	COU-02	#3
SPIKE	PD 8/9/94	DOC	25	23.6	94	mg/L	10/08/94	SM 53100	#6
SPIKE DUP	PD 8/9/94	DOC	25	27.6	110	mg/L	10/08/94	SM 53100	#6

HUFFMAN

LABORATORIES, INC.

Quality Analytical Services Since 1936

4630 Indiana Street • Golden, CO 80403

NON-CLP QA/QC ANALYSIS RESULTS

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Date: 10/26/94 01 Client: Evergreen Analytical
Lab Name: Huffman Labs Contact: Mark Mensik
Contact: Sue Zeller Huffman Lab #: 273494

INITIAL CALIBRATION

Lab ID #	Source	Element/ Compound	True Value	Found Value	% R	Units	Date	Method #	Instrument ID
ICS	BN 3716	TC	12.00	12.02	100	%	10/08/94	Leco CR12	#7
ICS	BN 3716	CC	12.00	12.02	100	%	10/05/94	COU-02	#3
ICS	BN 461	DOC	10	10.1	101	mg/L	10/08/94	SM 53100	#6

Slope = NA

Intercept = NA

95% Correlation Coefficient = NA

Single point calibrations for this test.

CONTINUING CALIBRATION VERIFICATION

Lab ID #	Source	Element/ Compound	True Value	Found Value	% R	Units	Date	Method #	Instrument ID
CCS	BN 3716	TC	12.00	11.91	99	%	10/08/94	Leco CR12	#7
CCS	BN 3716	TC	12.00	11.90	99	%	10/08/94	Leco CR12	#7
CCS	BN 3716	CC	12.00	12.05	100	%	10/05/94	COU-02	#3
CCS	BN 3716	CC	12.00	12.02	100	%	10/05/94	COU-02	#3
CCS	BN 461	DOC	10	10.3	103	mg/L	10/08/94	SM 53100	#6
CCS	BN 461	DOC	10	10.3	103	mg/L	10/08/94	SM 53100	#6

HUFFMAN

LABORATORIES, INC.

Quality Analytical Services Since 1936

4630 Indiana Street • Golden, CO 80403

ANALYSIS : TOTAL CARBON

METHOD : HIGH TEMP
COMB. - INFRARED DET.

INSTRUMENT : LECO CR12

ANALYZER # 7

BALANCE # 19

1. CALCIUM CARBONATE

STD. N.I.S.T. BUFFALO RIVER SEDIMENT (BRS)

12.00 %C (theory)

BN

3716

3.348 %C (theory)

BN

4384

SAMPLE #	SAMPLE WT G		% CARBON PRE-CALIB	% CARBON POST-CALIB	QC	% REC.
wakeup		1 g				
wakeup						
wakeup						
CaO3	.1010	} cal	12.29	12.04	ICD	100%
CaO3	.1026		12.22	11.97	ICS	100%
CaO3	.1110		12.11	11.86	ICS	99%
CaO3	.1030		12.39	12.13	ICS	101%
CaO3				12.02	ICS	100%
IB	10.0000	1 g			IB	
IB					IB	
IB					IB	
IB					IB	
BRS	.11030			3.367	ICS	101%
CaO3	.1090			11.92	ICS	99%

YST

DATE

10/8/94

REVIEWED

by

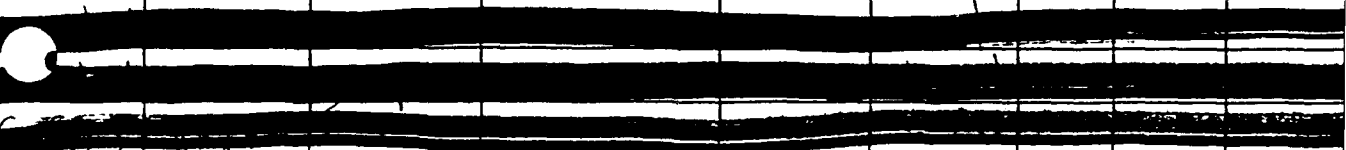
DATE

10/10/94

PAGE

OF

7/27/93

CaCO ₃	.1150	250			13.16	11.91	CCS	110%
2734-01	.8510				2.200	7 +/-	12.21	NH
2734-01	.5650				2.812	8		
								
2734-01	.4460	spike			5.270			
CaCO ₃	.1070				-			
2734-01	.4460	spike			5.521			
CaCO ₃	.1240							
2734-02	.3590				2.126			
2734-03	.4890				3.359			
2734-04	.4150				2.812			
2734-05	.5100				00.929			
CaCO ₃	.1150				11.90		CCS	94%

LABORATORIES, INC.
Quality Analytical Services Since 1936
6630 Indiana Street • Golden, CO 80403

ANALYSIS	CARBONATE CARBON	METHOD	SOP COU-02
ANALYZER #	6	COULOMETER #	3
BALANCE #	10		

CALCIUM CARBONATE TD #3331 → CO ₃	BOTTLE # 3716	% C THEORY = 12.00%	SODIUM CARBONATE Na ₂ CO ₃	BOTTLE # 4056	% C THEORY = 11.33 %

SAMPLE NO.	TARE WT. GRAMS	TARE + SAMPLE WT.	SAMPLE WT. GRAMS	NOTES	COUNTS μ GRAMS	LESS BLANK <u>P</u>	% CARBON AS CARBONATE CARBON		% RECOVERY
Blank			—		8.6			IR	
B1 boat			—		7.6			MP	
B1 boat			—		7.1			MP	
#CaCO ₃	0.583270	0.594206	0.010936		1323.0	1315.0	12.02	TCS	100 % rec
#Na ₂ CO ₃	0.616050	0.629051	0.013001		1474.4	1466.4	11.28	LCS	100 % rec

YST

Tom Herron

DATE _____

10-5-94

REVIEWED

CASE

7. 5. 20

PAGE 1 OF 3

REF ID: A69897

30 Indiana Street • Golden, CO 80403

ANALYSIS	CARBONATE CARBON	METHOD	SOP COU-02
ANALYZER #	6	COULOMETER #	3
BALANCE #	10		

CIUM CARBONATE D #333) CaCO_3	BOTTLE # 3716	% C THEORY = 12.00%	SODIUM CARBONATE Na_2CO_3	BOTTLE # 4056	% C THEORY = 11.33 %

SAMPLE NO.	TARE WT. GRAMS	TARE + SAMPLE WT.	SAMPLE WT. GRAMS	NOTES	COUNTS μGRAMS	LESS BLANK g	% CARBON AS CARBONATE CARBON	% RECOVERY
#CaCO ₃	0.621539	0.632764	0.011225		1358.3	1350.3	12.03 CCS	100 % rec
went to lunch								
#CaCO ₃	0.547980	0.559438	0.011528		1396.7	1388.7	12.05 CCS	100 % rec
[REDACTED]								
[REDACTED]								
[REDACTED]								
[REDACTED]								
[REDACTED]								
[REDACTED]								
734-01	0.528650	0.598804	0.070154		1189.7	1181.7	1.684 dup	
34-01	0.546484	0.618212	0.071728		1641.2	1633.2	2.276 dup	BC dup = 1.09% of meas
734-01	0.575824	0.605659	0.029835	spike	2008.8	2000.8	109% spike rec	
*CaCO ₃	0.564905	0.575824	0.010919		see spike recovery sheet		spike	
734-01	0.578023	0.630676	0.052653	spike	1919.1	1911.1	109% spike	rec
*CaCO ₃	0.588237	0.598023	0.009786		see spike recovery sheet		spike dup	
*CaCO ₃	0.553322	0.565385	0.012066		1451.9	1443.9	11.97 CCS	98 % rec
734-02	0.549171	0.627518	0.078347		1615.2	1607.2	2.051	
734-03	0.612176	0.642622	0.030446		1017.5	1009.5	3.315	
734-04	0.651383	0.684902	0.033519		1016.6	1008.6	3.009	
734-05	0.659998	0.722906	0.062908		481.9	473.9	0.753	
[REDACTED]								
[REDACTED]								

ANALYST <i>Tom Herndon</i>	DATE <i>10-5-94</i>	REVIEWED <i>EH</i>	DATE <i>10-6-94</i>	PAGE <i>2</i> OF <i>3</i>

RECEIVED 1963

30 Indiana Street • Golden, CO 80403

ANALYSIS	CARBONATE CARBON	METHOD	SOP COU-02
ANALYZER #	6	COULOMETER #	3
BALANCE #	10		

CALCIUM CARBONATE D # 333) CaCO_3	BOTTLE # 3716	% C THEORY = 12.00%	SODIUM CARBONATE Na 2CO_3	BOTTLE # 4056	% C THEORY = 11.33 %

[illegible]

WALYST <i>Tom Herman</i>	DATE <i>10-5-94</i>	REVIEWED <i>EF</i>	DATE <i>10-5-94</i>	PAGE 3 OF 3

REUSED 100000

4630 Indiana Street • Golden, CO 80403

ANALYSIS TIME TOTAL CIRCULAR DIALS 1.000

METHOD AMPOULE

DETECTION LIMIT 50 µg C/L

COULOMETER # 9

10 mg/L STD (dil. date) 9-27-94

5 mg/L STD (dil. date) 4-17-74

2.5 mg/L std. (dil. date) 9-21-94

Benzoic Acid: BN 4/1/1

KHP: 8N 9.7

XHP : BN 99

Sample #	Sample Vol. (ml)	µg C re: sing	µg C Blank	TOC mg C/L	Notes	QC	% Rec
BL		2.9	3.0				
10 mg/L	10	104.2		10.12	Sample	LCS	101%
Sample 11	10	61.0		5.80		LCS	116%
~~2734-06~~	~~10~~	~~88.9~~		~~8.59~~			
~~2734-07~~	~~10~~	~~28.1~~		~~2.51~~			
~~2734-08~~	~~10~~	~~27.3~~		~~2.43~~			
~~2734-09~~	~~10~~	~~90.5~~		~~8.75~~			
~~2734-10~~	~~10~~	~~104.1~~		~~10.11~~			
~~2734-11~~	~~10~~	~~108.0~~		~~10.50~~			
~~2734-12~~	~~10~~	~~105.4~~		~~10.26~~			

224105 *Comma* *brachy*

DATE
10-8-94

REVIEWED

CATE

PAGE 1 OF 1

$$^{*}\text{COT} = \text{mg C/L} = [\mu\text{g C (sample)}] - [\mu\text{g C (blank)}] \div [\text{sample volume} \cdot \text{mL}]$$
$$\mu g \text{ C.L.} = \mu g \text{ C.L.} \cdot 100$$

cc copy to STD & HP BN 97 40 5-9-94

Mergergreen Analytical Sample Log Sheet

Project # 94-3495

Sample(s) Sampled: 09/13/94 COC

Date Due: 09/28/94

Sample Received: 09/14/94 1030 Holding Time(s): 9/15-NO₂, NO₃, 9/20-Methane, TEH
9/27-BTEX, TVH, ALKALINITY

Client Project I.D. Madison Ang

Rush STANDARD

Client: Engineering Science Inc.

Shipping Charges N/A

Address: 1700 Broadway Suite 900

E.A. Cooler # 398

Denver, CO 80290

Airbill # 9581892946 FEDEX

Contact: Gail Saxton

Custody Seal Intact? Y

Client P.O. 722450.09020

Cooler X Bottles

Phone #831-8100 Fax #831-8208

COC Present Y

Sample Tags Present? Y

Sample Tags Listed? Y

Sample(s) Sealed? Y

Special Invoicing/Billing

Special Instructions

#	Client ID#	Analysis	Mtx	Btl	Loc
4342A/B	MW-16	BTEX, TMB	W	40V	2
4343A/B	MW-13	BTEX, TMB	W	40V	2
4344A/B	MW-12	BTEX, TMB	W	40V	2
4345A/B	MW-11	BTEX, TMB	W	40V	2
4346A/B	MW-25	BTEX, TMB	W	40V	2
4347A/B	MW-UNK	BTEX, TMB	W	40V	2
4348A	TRIP BLANK	BTEX, TMB	W	40V	2
4342C/D	MW-16	TVH	W	40V	2
4343C/D	MW-13	TVH	W	40V	2
4344C/D	MW-12	TVH	W	40V	2
4345C/D	MW-11	TVH	W	40V	2
4346C/D	MW-25	TVH	W	40V	2
4347C/D	MW-UNK	TVH	W	40V	2

Sample to be returned

GC/MS GC 5 Metals Wet Chem 2 SxPrep 1 Acctg 1

SxRec C QA/QC C Sales C File Orig

Page 1 of 2 Page(s)

Custodian/Date: MW/PLB
9/15/94

Client ID#	Analysis	Mtx	Btl	Loc
42E-G MW-16	METHANE	W	40V	2
43E-G MW-13	METHANE	W	40V	2
44E-G MW-12	METHANE	W	40V	2
45E-G MW-11	METHANE	W	40V	2
46E-G MW-25	METHANE	W	40V	2
47E-G MW-UNK	METHANE	W	40V	2
42H MW-16	SO ₄ , NO ₂ , NO ₃ , Chloride	W	125P	B8
43H MW-13	"	W	"	B8
44H MW-12	"	W	"	B8
45H MW-11	"	W	"	B8
46H MW-25	"	W	"	B8
47H MW-UNK	"	W	"	B8
42I MW-16	ALKALINITY	W	500P	B8
43I MW-13	"	W	"	B8
44I MW-12	"	W	"	B8
45I MW-11	"	W	"	B8
46I MW-25	"	W	"	B8
47I MW-UNK	"	W	"	B8
42J MW-16	TEH	W	1LA	B8
43J MW-13	"	W	1LA	B8
44J MW-12	"	W	1LA	B8
45J MW-11	"	W	1LA	B8
46J MW-25	"	W	1LA	B8
47J MW-UNK	"	W	1LA	B8
42K MW-16	DISSOLVED ORGANIC CARBON	W	250P	OUT
43K MW-13	"	W	250P	OUT
47K MW-UNK	"	W	250P	OUT

Page 2 of 2 Pages

Project # 94-3495

ample to be returned

CHAIN OF CUSTODY RECORD / ANALYTICAL SERVICES REQUEST

Page 1 of 1

Evergreen Analytical Inc.

COMPANY Engineering-Science
 ADDRESS 1700 Broadway
 CITY Denver STATE CO ZIP 80202
 PHONE # 303-831-8100 FAX # 303-831-8208

4036 Youngfield
 Wheat Ridge, Colorado 80033
 (303) 425-6021
 FAX (303) 425-6854

COMPANY CONTACT (print) M.H. Swanson

PROJECT I.D. 722450-09020 Madison Ave
 P.O. # 722450-09020

TURNAROUND REQUIRED* 30 days
 *expedited turnaround subject to additional fee

Sampler Name:
 (signature) S. Hoffer
 (print) S. Hoffer
 (signature) M.H. Swanson

Evergreen Analytical Cooler No. #398

SAMPLE IDENTIFICATION			DATE	SAMPLED TIME	No. of Containers	MATRIX				ANALYSIS REQUESTED																			Notes
MW-16			9/13/94	11:40a	11	Water - Drinking/Discharge/Ground (circle)	Soil / Solid (circle)	Sludge/Slurry (circle)	Oil/Organic Liquid (circle)	Multiphase (identify phase to be analyzed)	TCLP VOA/BNA/Pest/Herb/Metals (circle)	VOA 8260/624/524.2 (circle)	BNA 8270/625 (circle)	Pesticides 8080/608 (circle)	Pest/PCBs 8080/608/508 (circle)	Herbicides 8150/515 (circle)	PCB 6080/PCB Screen (circle)	BTX 8020/602 (circle) MTBE (circle)	TRPH 418, 1/Oil & Grease 413.1 (circle)	TVH 8015mod. (Gasoline)	TEH 8015mod. (Diesel)	Total Metals-DW / NPDES / SW846 (circle & list metals below)	Dissolved Metals - DW / SW846 (circle & list metals below)	SO ₄ , NO ₃ , NH ₄ -N, & Chloride	Dissolved Organic Carbon	Alkalinity	Methane		
MW-13			9/13/94	12:55a	11	X												X	X	X	X	X	X	X	X	X	X	X	
MW-12			9/13/94	2:10pm	10	X												X	X	X	X	X	X	X	X	X	X	X	
MW-11			9/13/94	3:25pm	10	X												X	X	X	X	X	X	X	X	X	X	X	
MW-25			9/13/94	4:25pm	10	X												X	X	X	X	X	X	X	X	X	X	X	
MW-DNK			9/13/94	4:50pm	10	X												X	X	X	X	X	X	X	X	X	X	X	

Instructions:

All samples packed in ice

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
<u>Sandra Joffe</u>	9/13 5:45pm	<u>FEDEX</u>	
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
		<u>Evergreen</u>	9/14 6:40am

Evergreen Analytical Sample Receipt/Check-in Record

Date & Time Rec'd: 10:30 9/14/94 Shipped Via: FEDEx 95818921
 (Airbill # if applicable)

Client : Engineering Science

Client Project ID(s): _____

EAL Project #(s): 94- EAL Cooler(s): Y N

Cooler# 378

Ice packs Y N Y N Y N Y N Y N

Temperature °C 4

	Y	N	N/A
1. Custody seal(s) present:	<u>X</u>		
Seals on cooler intact	<u>X</u>		
Seals on bottle intact			<u>X</u>
2. Chain of Custody present:	<u>X</u>		
3. Containers broken or leaking:		<u>X</u>	
(Comment on COC if Y)			
4. Containers labeled:	<u>X</u>		
5. COC agrees w/ bottles received:	<u>X</u>		
(Comment on COC if N)			
6. COC agrees w/ labels:	<u>X</u>		
(Comment on COC if N)			
7. Headspace in VOA vials-waters only		<u>X</u>	
(comment on COC if Y)			
8. VOA samples preserved:	<u>X</u>	<u>X</u>	<u>X</u>
9. pH measured on metals, cyanide or phenolics*:			
List discrepancies _____			
*Non-EAL provided containers only, water samples only.			
10. Metal samples present:			
Total _____, Dissolved _____			
D or PD to be filtered:			
T,TR,D,PD to be Preserved:			
11. Short holding times:			
Specify parameters _____			
12. Multi-phase sample(s) present:		<u>X</u>	
13. COC signed w/ date/time:	<u>X</u>		

Comments: _____

(Additional comments on back)
 Custodian Signature/Date: Tina L. [Signature] 9/14/94

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: MW-16	Client Project No.	: Madison Ang
Lab Sample Number	: X94342	Lab Project No.	: 94-3495
Date Sampled	: 9/13/94	Dilution Factor	: 1.00
Date Received	: 9/14/94	Method	: 602
Date Extracted/Prepared	: 9/16/94	Matrix	: Water
Date Analyzed	: 9/16/94	Lab File No.	: BX1091614
		Method Blank No.	: MB091694

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	5.1	0.4
Toluene	108-88-3	U	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	2.2	0.4
1,3,5-trimethylbenzene	108-67-8	U	0.4
1,2,4-trimethylbenzene	95-63-6	2.4	0.4
1,2,3-trimethylbenzene	526-73-8	0.4	0.4

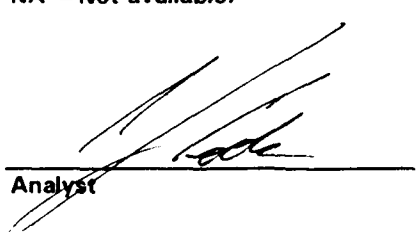
Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:

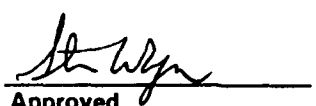
a,a,a,-Trifluorotoluene : 82%
QC Reporting Limits : 77%-116%

QUALIFIERS:

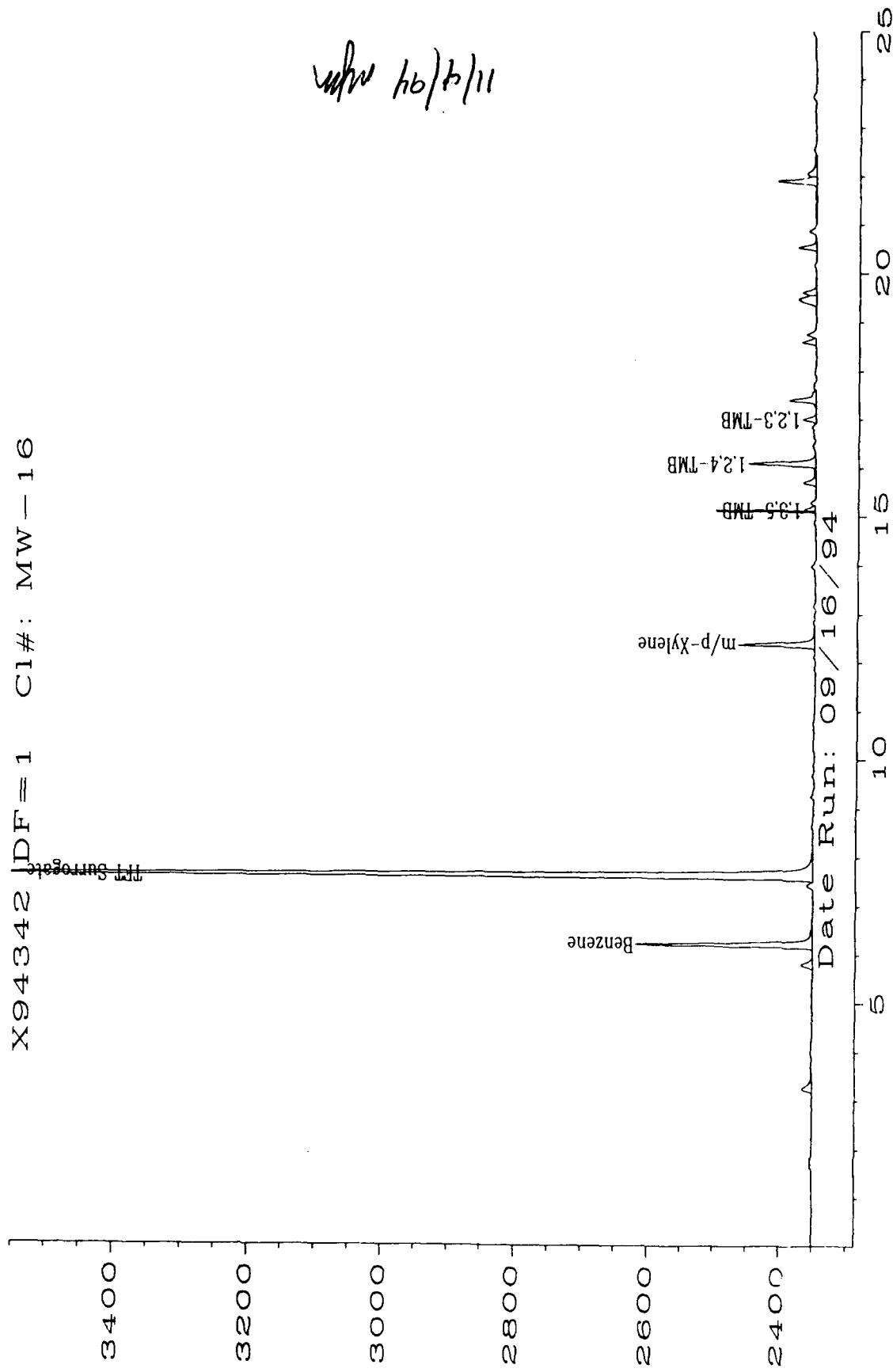
E = Extrapolated value
U = Compound analyzed for, but not detected.
B = Compound found in blank and sample. Compare blank and sample data.
MDL = Method Detection Limit.
NA = Not available.



Analyst



Approved



Sig. 1 in C:\HPCHEM\1\DATA\BX10916\014FO101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: MW-13	Client Project No.	: Madison Ang
Lab Sample Number	: X94343	Lab Project No.	: 94-3495
Date Sampled	: 9/13/94	Dilution Factor	: 1.00
Date Received	: 9/14/94	Method	: 602
Date Extracted/Prepared	: 9/16/94	Matrix	: Water
Date Analyzed	: 9/16/94	Lab File No.	: BX1091615
		Method Blank No.	: MB091694

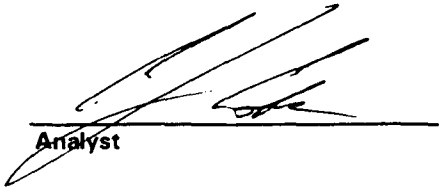
Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	U	0.4
Toluene	108-88-3	U	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	U	0.4
1,3,5-trimethylbenzene	108-67-8	U	0.4
1,2,4-trimethylbenzene	95-63-6	U	0.4
1,2,3-trimethylbenzene	526-73-8	U	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:
a,a,a,-Trifluorotoluene : 84%
QC Reporting Limits : 77%-116%

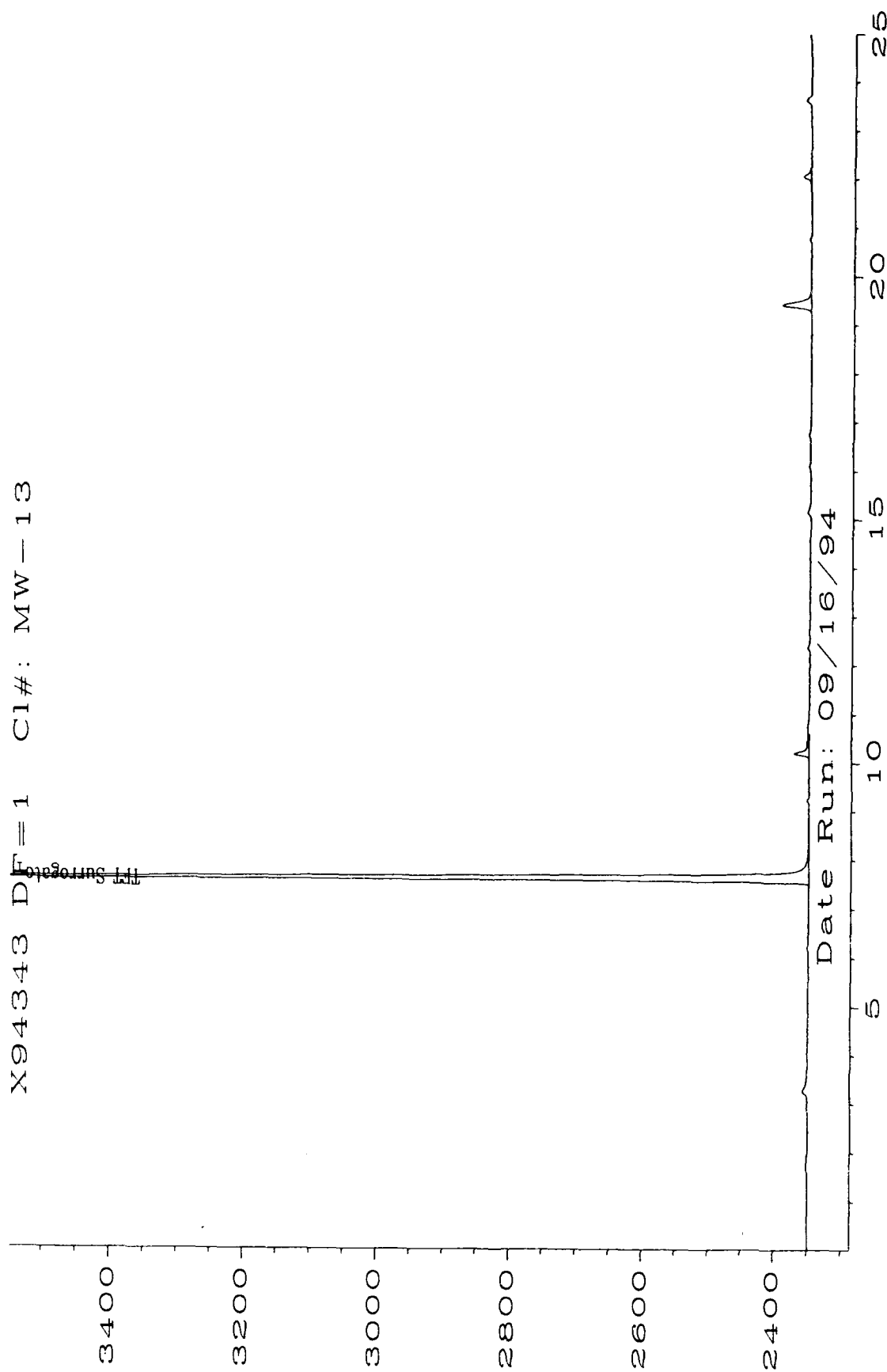
QUALIFIERS:

E = Extrapolated value
U = Compound analyzed for, but not detected.
B = Compound found in blank and sample. Compare blank and sample data.
MDL = Method Detection Limit.
NA = Not available.


Analyst


Approved

X94343 DF=1 Cl#: MW-13



Sig. 1 in C:\HPCHEM\1\DATA\BX10916\015FO101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: MW-12	Client Project No.	: Madison Ang
Lab Sample Number	: X94344	Lab Project No.	: 94-3495
Date Sampled	: 9/13/94	Dilution Factor	: 1.00
Date Received	: 9/14/94	Method	: 602
Date Extracted/Prepared	: 9/17/94	Matrix	: Water
Date Analyzed	: 9/17/94	Lab File No.	: BX2091708
		Method Blank No.	: MB091794

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	U	0.4
Toluene	108-88-3	U	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	U	0.4
1,3,5-trimethylbenzene	108-67-8	U	0.4
1,2,4-trimethylbenzene	95-63-6	U	0.4
1,2,3-trimethylbenzene	526-73-8	U	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 103%
QC Reporting Limits : 77%-116%

QUALIFIERS:

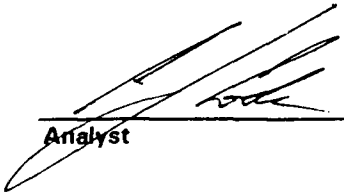
E = Extrapolated value

U = Compound analyzed for, but not detected.

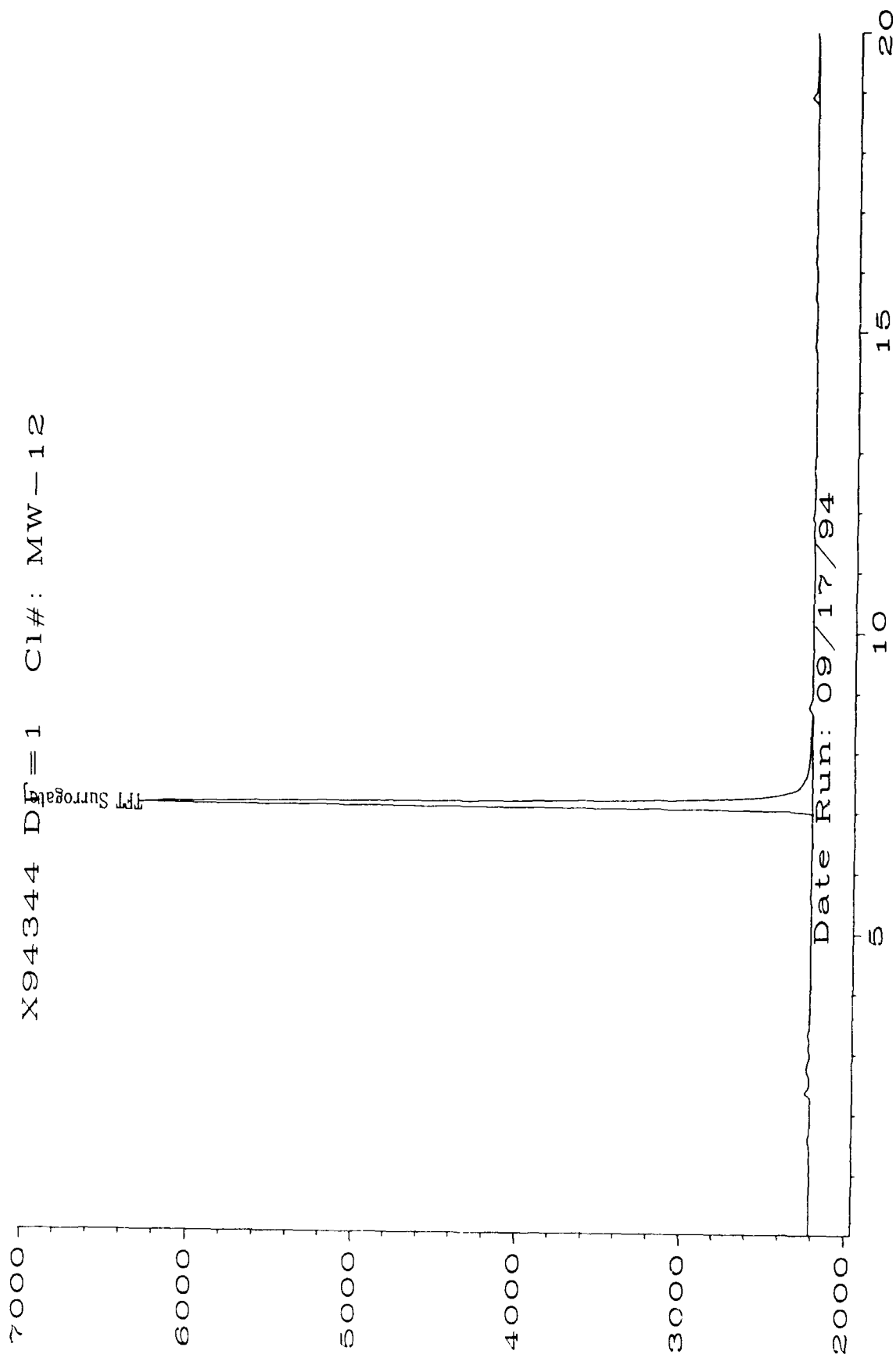
B = Compound found in blank and sample. Compare blank and sample data.

MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved



Sig. 2 in C:\HPCHEM\2\DATA\BX20917\008R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: MW-11	Client Project No.	: Madison Ang
Lab Sample Number	: X94345	Lab Project No.	: 94-3495
Date Sampled	: 9/13/94	Dilution Factor	: 1.00
Date Received	: 9/14/94	Method	: 602
Date Extracted/Prepared	: 9/17/94	Matrix	: Water
Date Analyzed	: 9/17/94	Lab File No.	: BX2091709
		Method Blank No.	: MB091794

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	U	0.4
Toluene	108-88-3	U	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	U	0.4
1,3,5-trimethylbenzene	108-67-8	U	0.4
1,2,4-trimethylbenzene	95-63-6	U	0.4
1,2,3-trimethylbenzene	526-73-8	U	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:
a,a,a,-Trifluorotoluene : 111%
QC Reporting Limits : 77%-116%

QUALIFIERS:

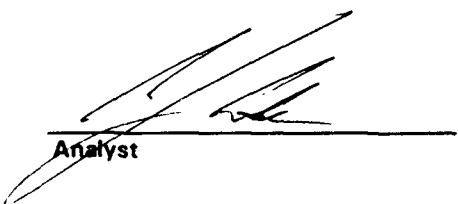
E = Extrapolated value

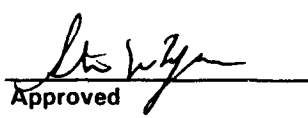
U = Compound analyzed for, but not detected.

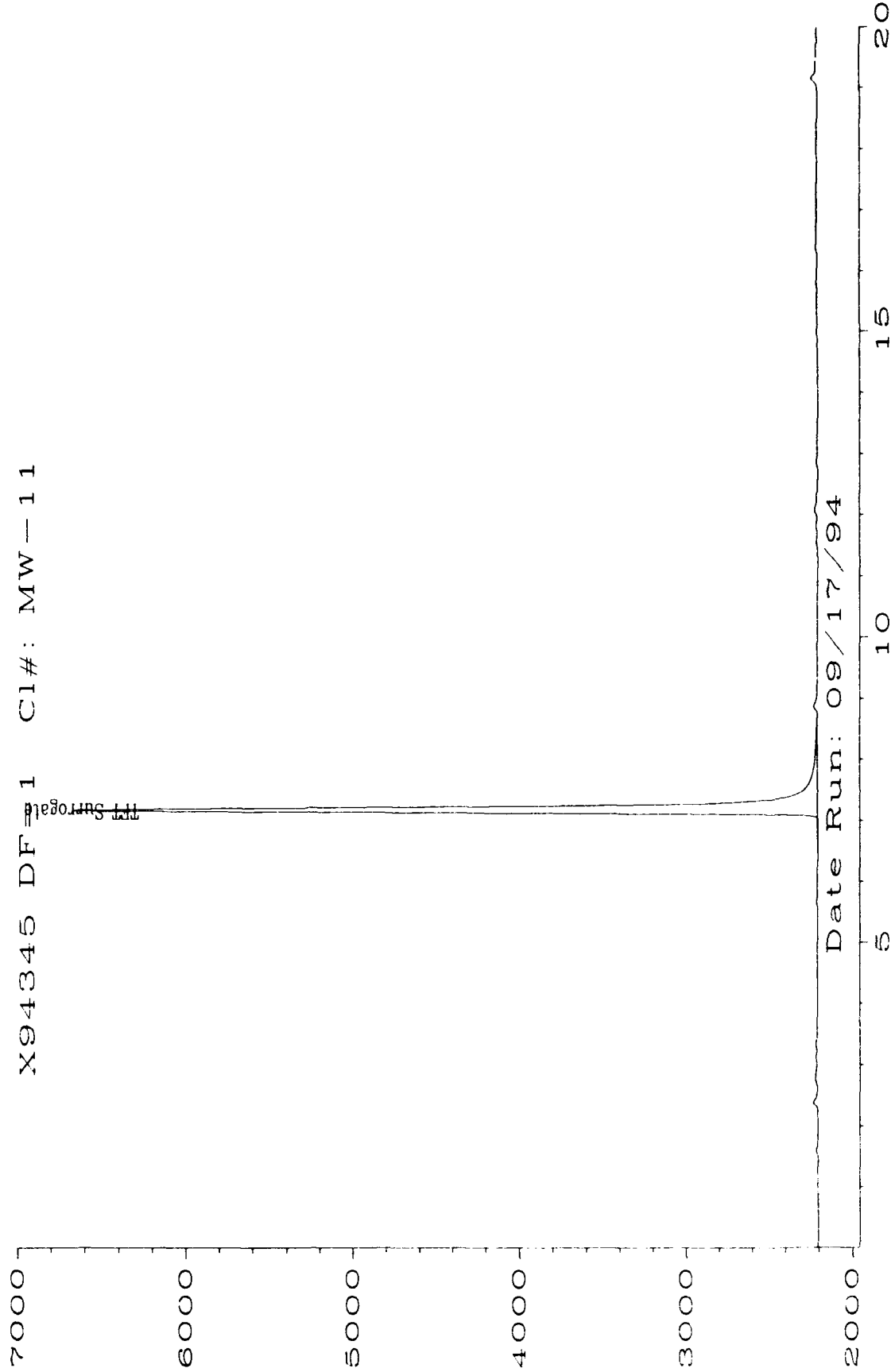
B = Compound found in blank and sample. Compare blank and sample data.

MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved



Sig. 2 in C:\HPCHEM\2\DATA\BX20917\009R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St., Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: MW-25	Client Project No.	: Madison Ang
Lab Sample Number	: X94346	Lab Project No.	: 94-3495
Date Sampled	: 9/13/94	Dilution Factor	: 1.00
Date Received	: 9/14/94	Method	: 602
Date Extracted/Prepared	: 9/17/94	Matrix	: Water
Date Analyzed	: 9/17/94	Lab File No.	: BX2091710
		Method Blank No.	: MB091794

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	U	0.4
Toluene	108-88-3	U	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	U	0.4
1,3,5-trimethylbenzene	108-67-8	U	0.4
1,2,4-trimethylbenzene	95-63-6	U	0.4
1,2,3-trimethylbenzene	526-73-8	U	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:
a,a,a,-Trifluorotoluene : 108%
QC Reporting Limits : 77%-116%

QUALIFIERS:

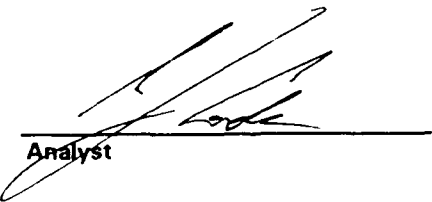
E = Extrapolated value

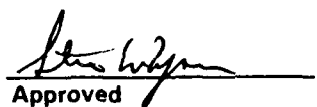
U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

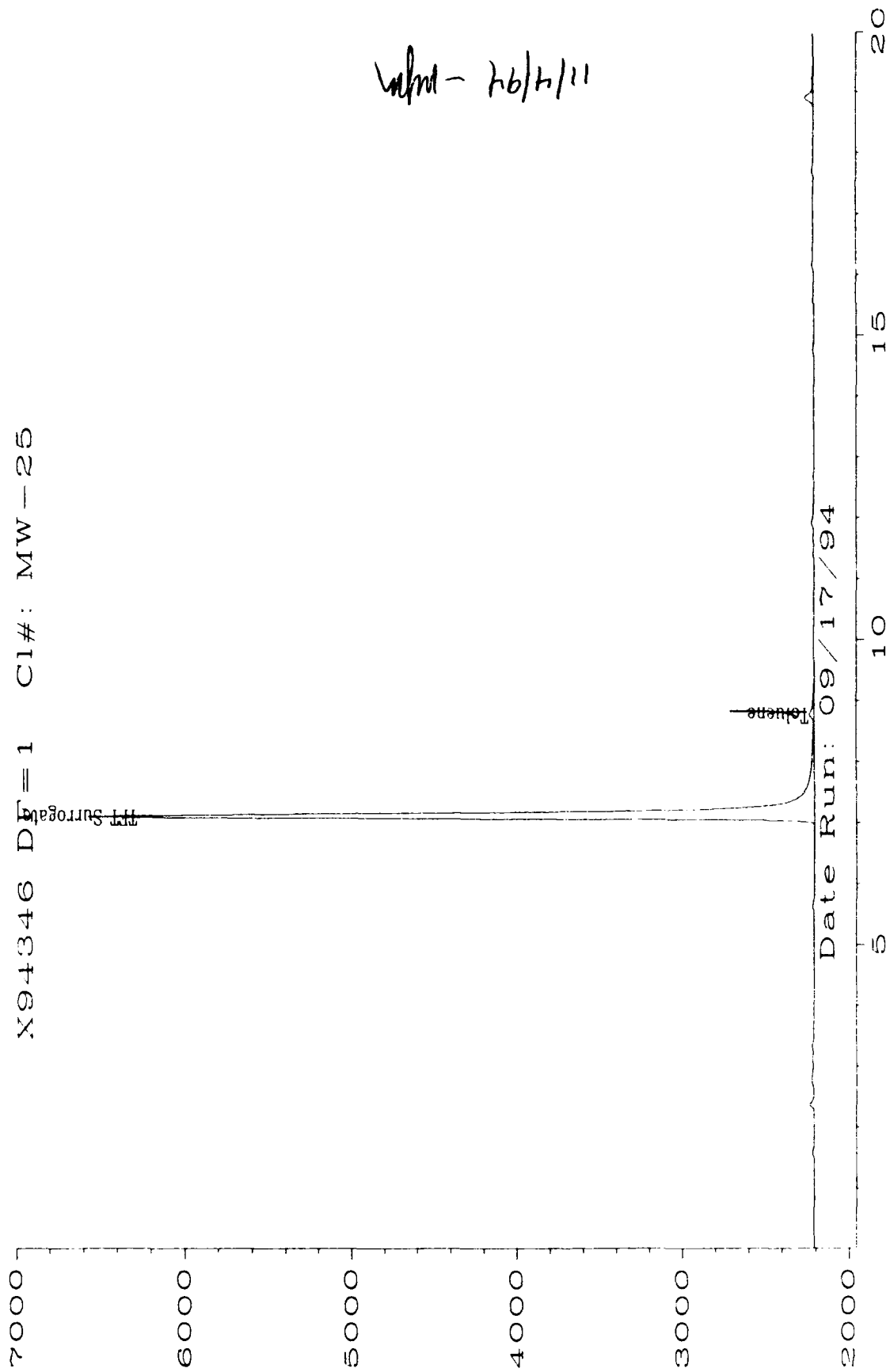
MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved

X94346 DF=1 C1#: MW-25



valm - hb/h/11

Sig. 2 in C:\HPCHEM\2\DATA\BX20917\010R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: MW-UNK	Client Project No.	: Madison Ang
Lab Sample Number	: X94347	Lab Project No.	: 94-3495
Date Sampled	: 9/13/94	Dilution Factor	: 1.00
Date Received	: 9/14/94	Method	: 602
Date Extracted/Prepared	: 9/17/94	Matrix	: Water
Date Analyzed	: 9/17/94	Lab File No.	: BX2091711
		Method Blank No.	: MB091794

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	U	0.4
Toluene	108-88-3	U	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	U	0.4
1,3,5-trimethylbenzene	108-67-8	U	0.4
1,2,4-trimethylbenzene	95-63-6	U	0.4
1,2,3-trimethylbenzene	526-73-8	U	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:

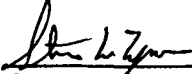
a,a,a,-Trifluorotoluene	: 104%
QC Reporting Limits	: 77%-116%

QUALIFIERS:

E = Extrapolated value
U = Compound analyzed for, but not detected.
B = Compound found in blank and sample. Compare blank and sample data.
MDL = Method Detection Limit.
NA = Not available.

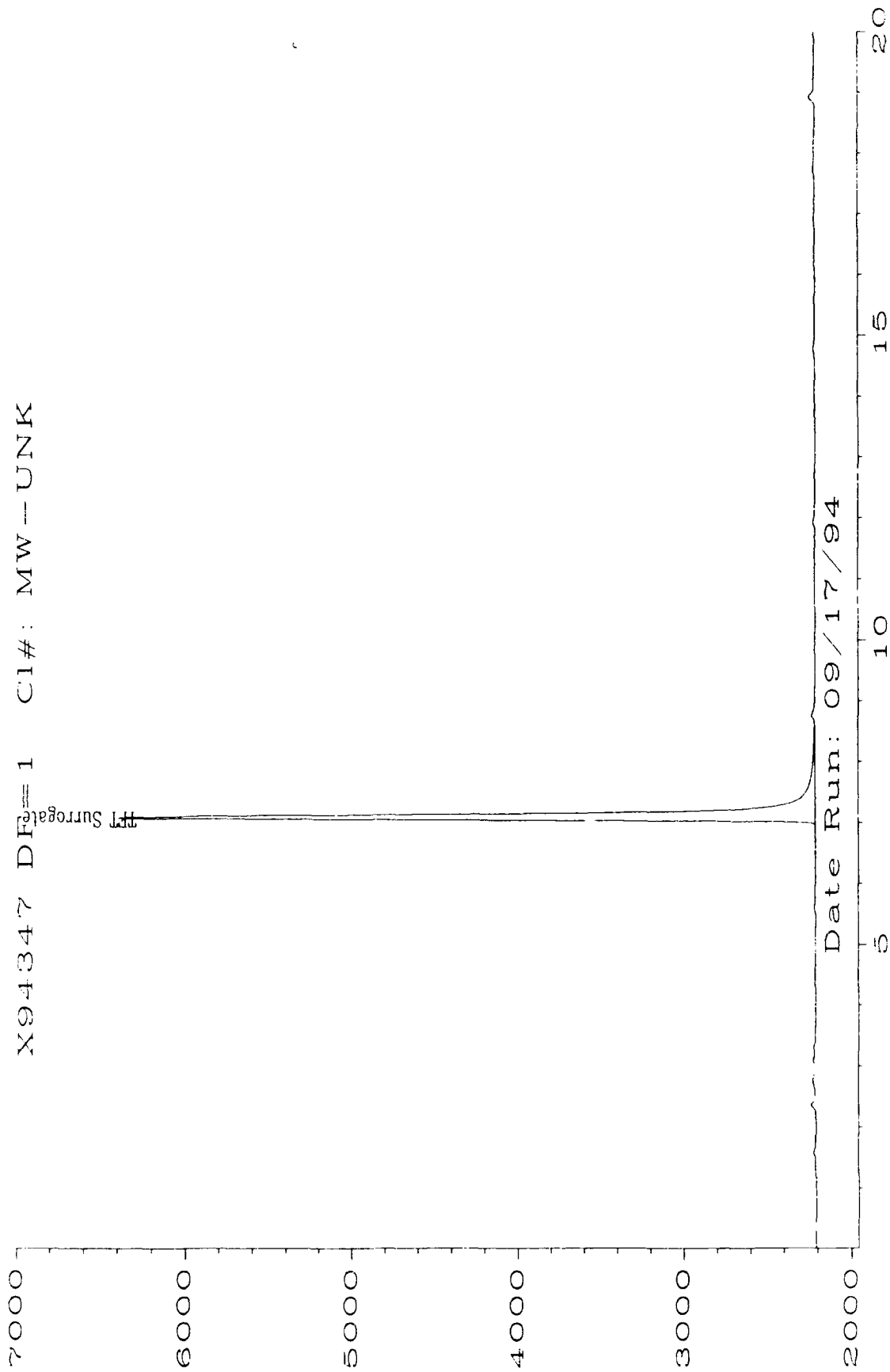


Analyst



Approved

X94347 DF=1 C1#: MW - UNK



Sig. 2 in C:\HPCHEM\2\DATA\BX\20917\011R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: Trip Blank	Client Project No.	: Madison Ang
Lab Sample Number	: X94348	Lab Project No.	: 94-3495
Date Sampled	: 9/13/94	Dilution Factor	: 1.00
Date Received	: 9/14/94	Method	: 602
Date Extracted/Prepared	: 9/17/94	Matrix	: Water
Date Analyzed	: 9/18/94	Lab File No.	: BX2091719
		Method Blank No.	: MB091794

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	U	0.4
Toluene	108-88-3	U	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	U	0.4
1,3,5-trimethylbenzene	108-67-8	U	0.4
1,2,4-trimethylbenzene	95-63-6	U	0.4
1,2,3-trimethylbenzene	526-73-8	U	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 99%
QC Reporting Limits : 77%-116%

QUALIFIERS:

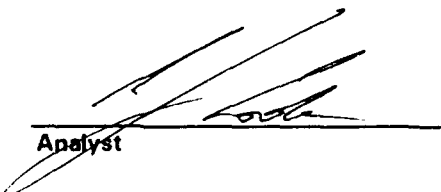
E = Extrapolated value

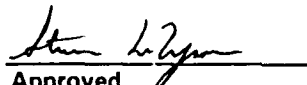
U = Compound analyzed for, but not detected.

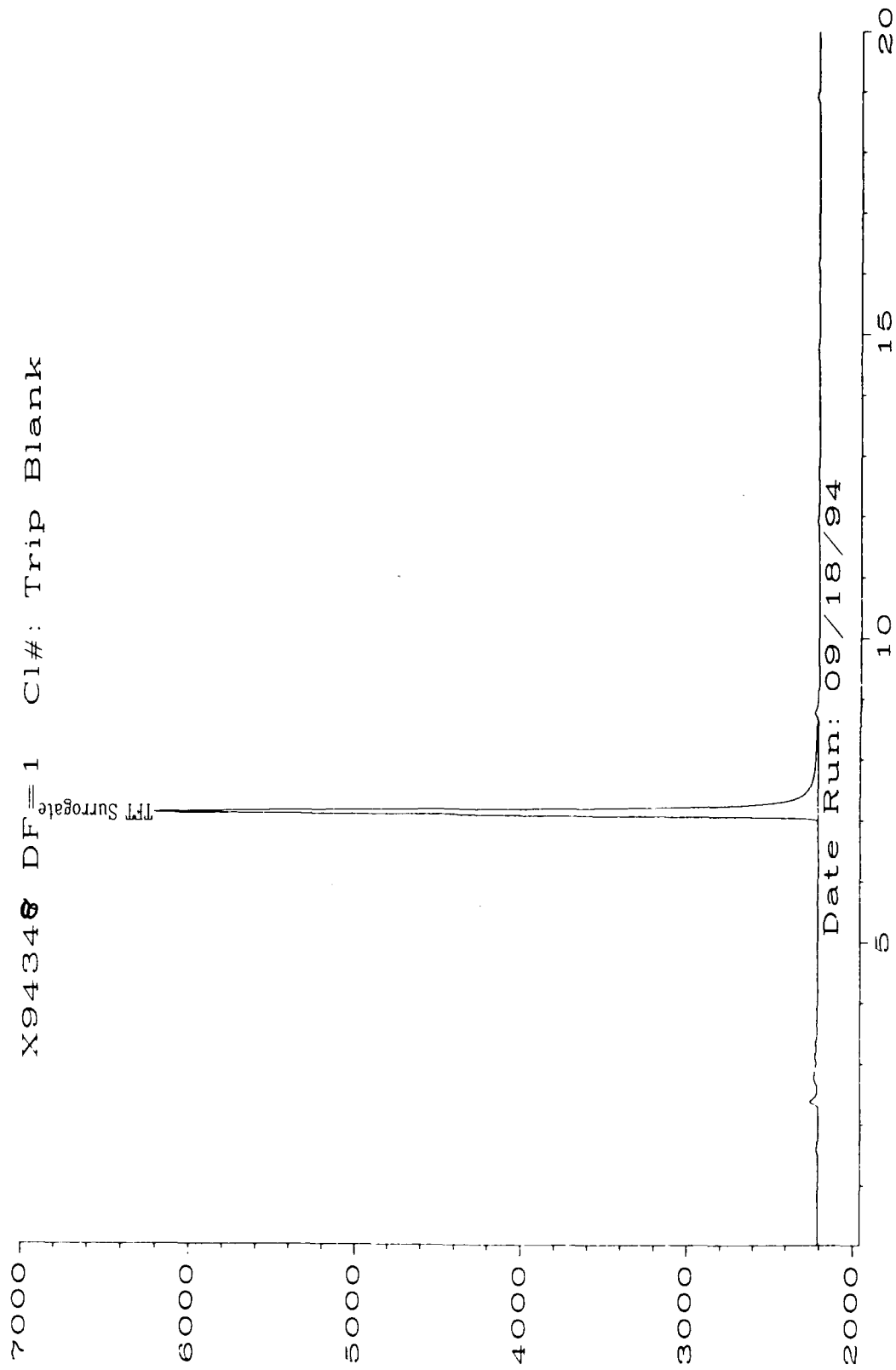
B = Compound found in blank and sample. Compare blank and sample data.

MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved



Sig. 2 in C:\HPCHEM\2\DATA\BX20917\019R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Method Blank Report

Method Blank Number	: MB091694	Client Project No.	: Madison Ang
Date Extracted/Prepared	: 9/16/94	Lab Project No.	: 94-3495
Date Analyzed	: 9/16/94	Dilution Factor	: 1.00
		Method	: 602
		Matrix	: Water
		Lab File No.	: BX1091602

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	U	0.4
Toluene	108-88-3	U	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	U	0.4
1,3,5-trimethylbenzene	108-67-8	U	0.4
1,2,4-trimethylbenzene	95-63-6	U	0.4
1,2,3-trimethylbenzene	526-73-8	U	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.

The Xylene MDL is for a single peak.

Note: High surrogate recovery due to increased sensitivity of initial runs.

Surrogate Recovery:

a,a,a,-Trifluorotoluene	: 128%
QC Reporting Limits	: 77%-116%

QUALIFIERS:

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

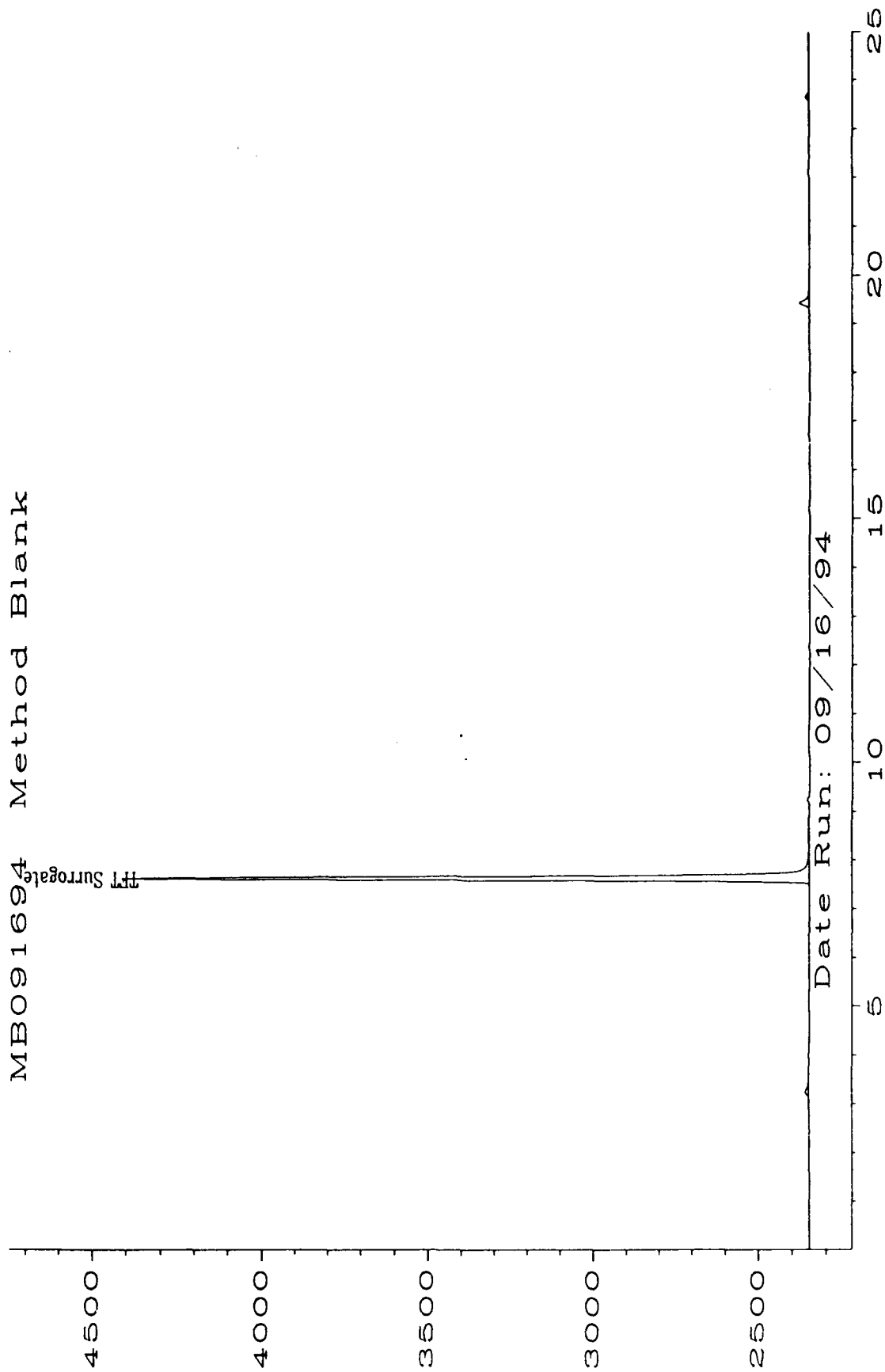
MDL = Method Detection Limit.

NA = Not available.

Analyst

Approved

MB091694 Method Blank



Sig. 1 in C:\HPCHEM\1\DATA\BX10916\002F0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Method Blank Report

Method Blank Number : MB091794
Date Extracted/Prepared : 9/17/94
Date Analyzed : 9/17/94

Client Project No. : Madison Ang
Lab Project No. : 94-3495
Dilution Factor : 1.00
Method : 602
Matrix : Water
Lab File No. : BX2091703

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	U	0.4
Toluene	108-88-3	U	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	U	0.4
1,3,5-trimethylbenzene	108-67-8	U	0.4
1,2,4-trimethylbenzene	95-63-6	U	0.4
1,2,3-trimethylbenzene	526-73-8	U	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 111%
QC Reporting Limits : 77%-116%

QUALIFIERS:

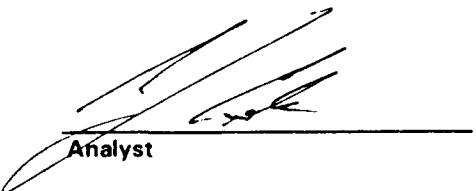
E = Extrapolated value

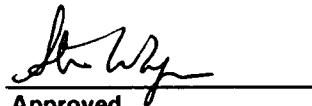
U = Compound analyzed for, but not detected.

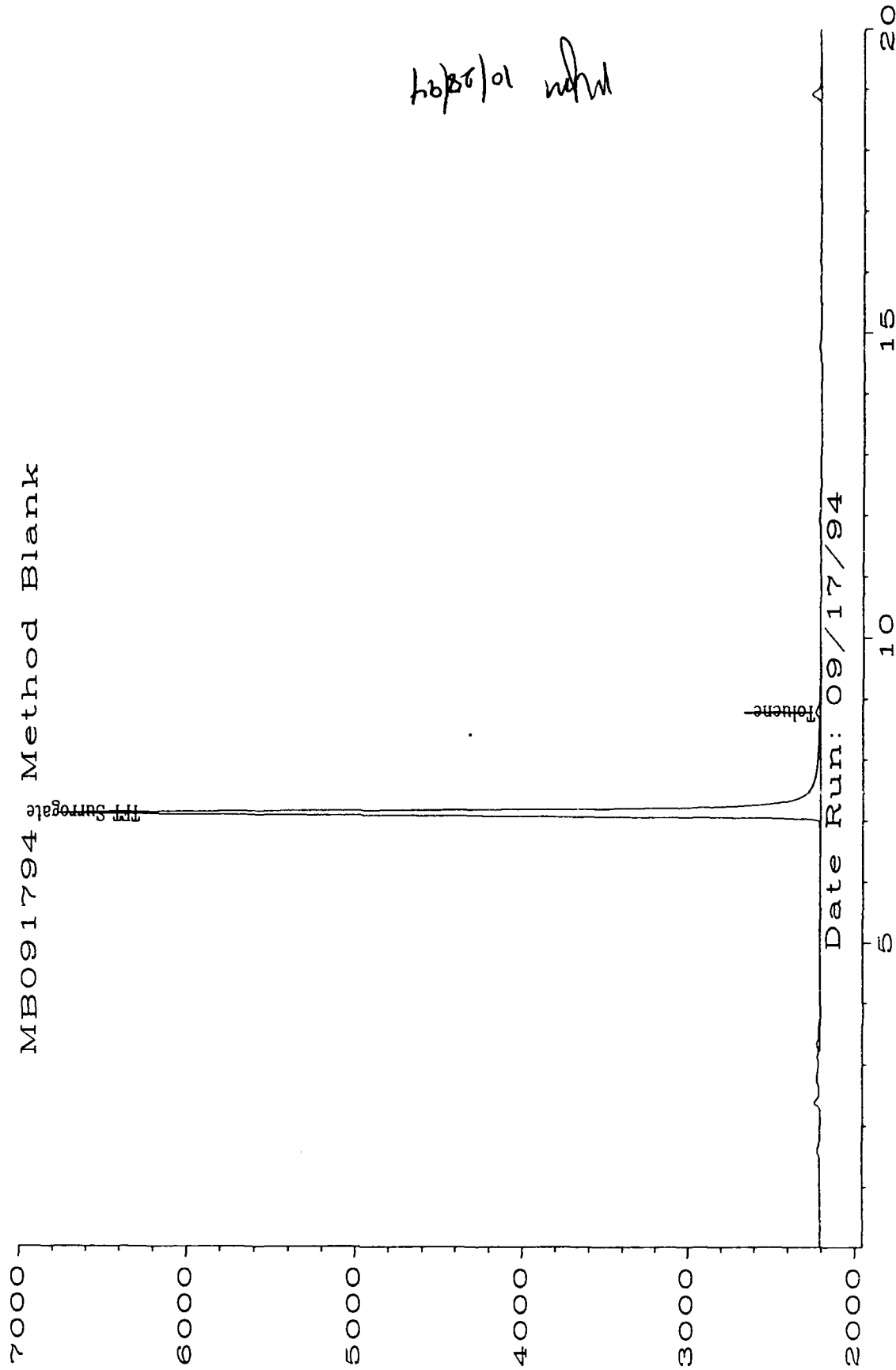
B = Compound found in blank and sample. Compare blank and sample data.

MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved



hobbs/ol nchm

Sig. 2 in C:\HPCHEM\2\1\TA\BX20917\003R0101.D

Evergreen Analytical, Inc.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

BTEX Water Matrix Spike/Matrix Spike Duplicate Data Report

Client Sample No.	: MW-16	Client Project No.	: Madison Ang
Lab Sample No.	: X94342	Lab Project No.	: 94-3495
Date Sampled	: 9/13/94	EPA Method No.	: 602
Date Received	: 9/14/94	Matrix	: Water
Date Prepared	: 9/16/94	Lab File Number(s)	: BX1091621,22
Date Analyzed	: 9/17/94	Method Blank	: MB091694

Compound	Spike Added (ug/L)	Sample Concentration (ug/L)	MS Concentration (ug/L)	MS %REC	QC Limits %REC
Benzene	20	5.1	18.6	67.5	65-121
Toluene	20	0	13.8	69	69-117
Ethyl Benzene	20	0	13.9	69.5	68-118
m/p-Xylene	20	2.2	16.3	70.5	66-116
o-Xylene	20	0	13.8	69*	73-117
1,3,5-TMB	20	0	13.4	67	65-121
1,2,4-TMB	20	2.4	16.3	69.5	65-121
1,2,3-TMB	20	0.4	12.7	61.5*	65-121

Compound	Spike Added (ug/L)	MSD Concentration (ug/L)	MS %REC	RPD	QC Limits	
					RPD	%REC
Benzene	20	18.9	69	2.2	17.4	65-121
Toluene	20	13.9	69.5	0.7	15.8	69-117
Ethyl Benzene	20	14	70	0.7	11.9	68-118
m/p-Xylene	20	16.3	70.5	0.0	15.4	66-116
o-Xylene	20	13.9	69.5*	0.7	13.2	73-117
1,3,5-TMB	20	13.8	69	2.9	17.4	65-121
1,2,4-TMB	20	16.8	72	3.5	17.4	65-121
1,2,3-TMB	20	13.2	64*	4.0	17.4	65-121

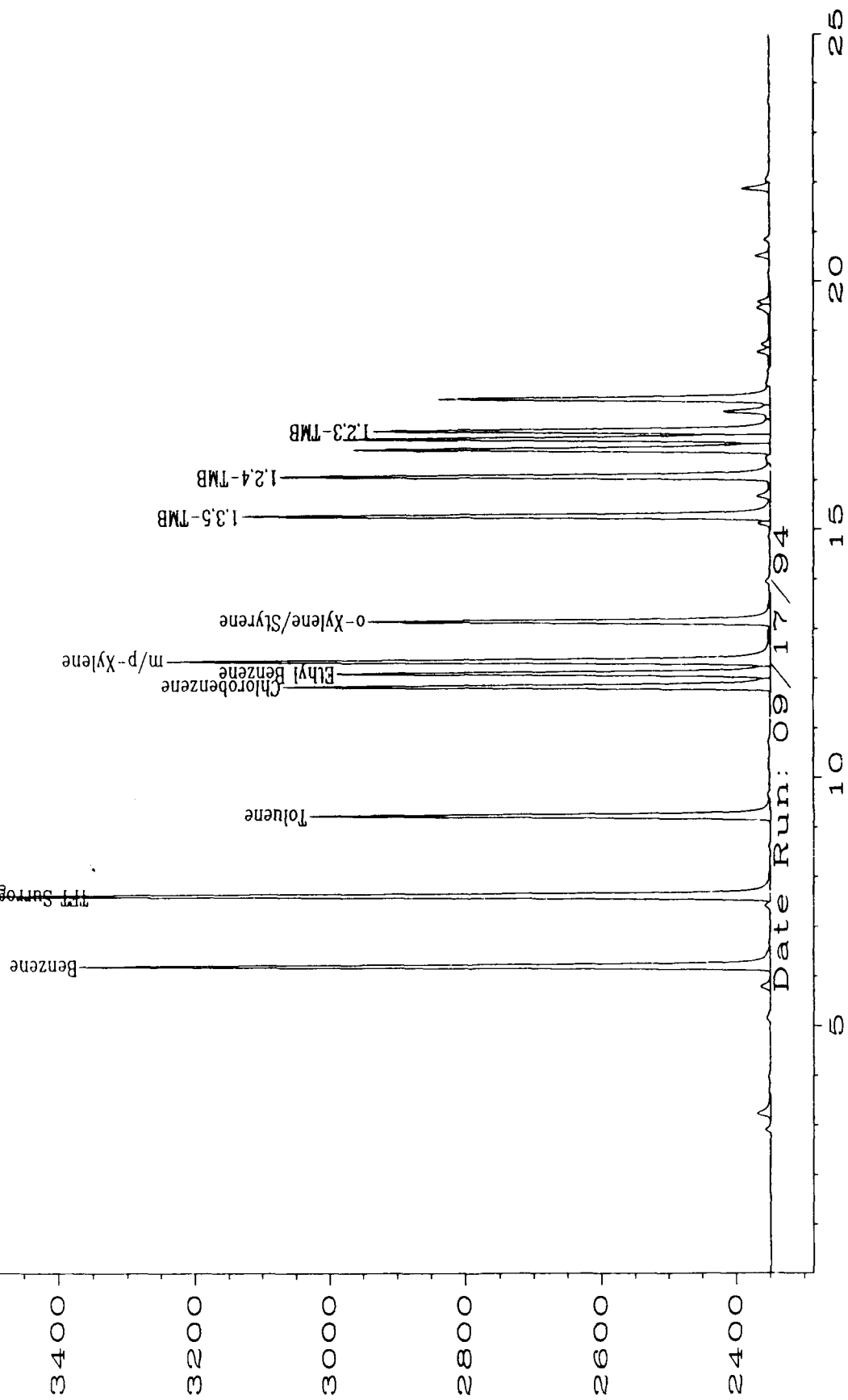
* = Values outside of QC limits.

RPD: 0 out of (8) outside limits.

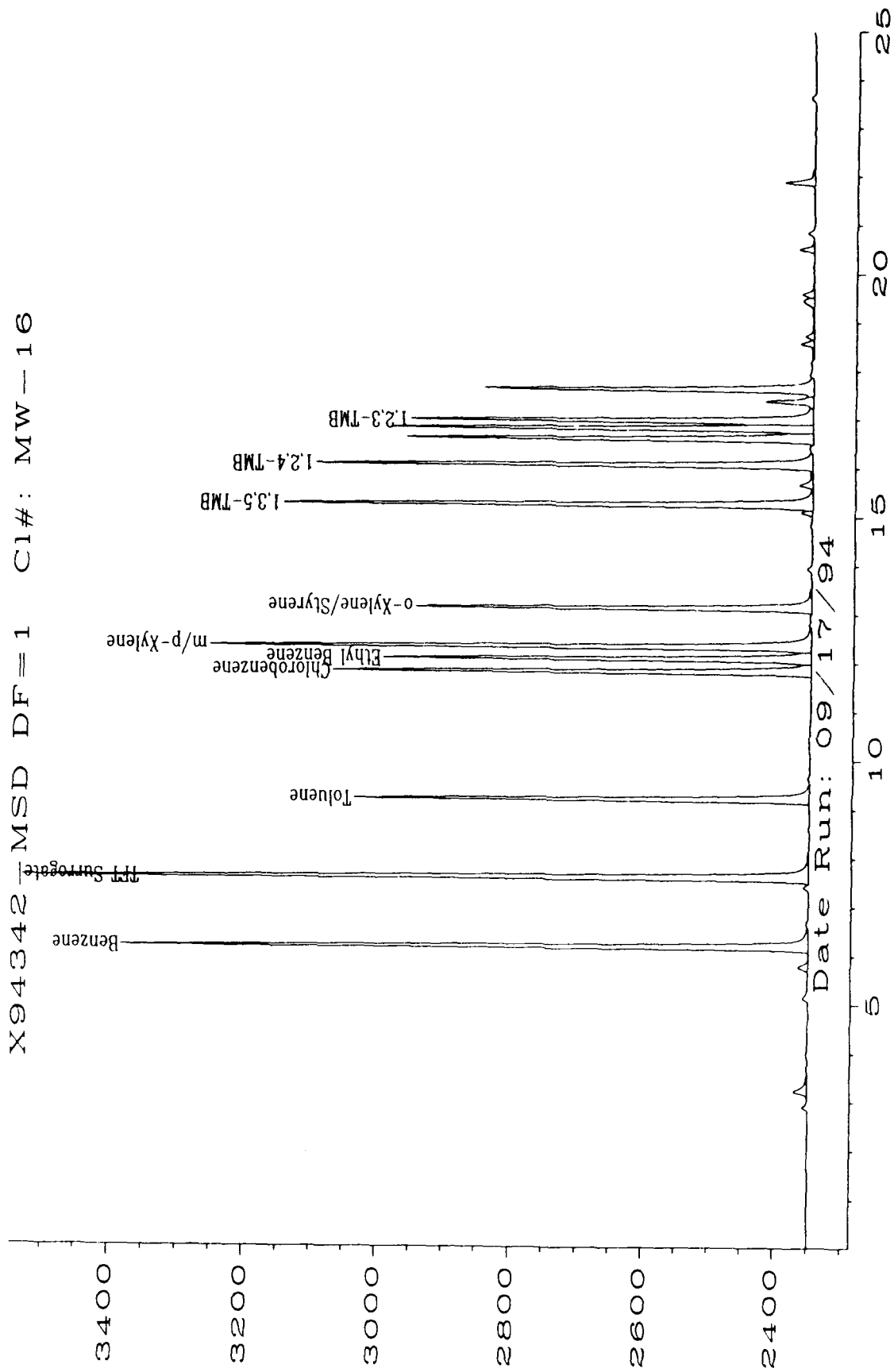
Spike Recovery: 4 out of (16) outside limits.

Comments: CJC

X94342-MS DF=1 Cl#: MW-16



Sig. 1 in C:\HPCHEM\1\DATA\BX10916\021F0101.D



Sig. 1 in C:\HPCHEM\1\DATA\BX10916\022F0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Laboratory Control Sample (LCS)

LCS Number	: LCS091694	Client Project No.	: Madison ANG
Date Extracted/Prepared	: 9/16/94	Lab Project No.	: 94-3495
Date Analyzed	: 9/16/94	Dilution Factor	: 1.00
		Method	: 8020
		Matrix	: Water
		Lab File No.	: BX2091613

Compound Name	Cas Number	LCS	QC Limit
		Concentration ug/L	
Benzene	71-43-2	28	29-47
Toluene	108-88-3	28	30-42
Ethyl Benzene	100-41-4	29	31-43
m/p-Xylene	NA	29	31-42
o-Xylene	95-47-6	30	31-42
Chlorobenzene	108-90-7	NA	NA
1,3,5-trimethylbenzene	108-67-8	NA	NA
1,2,4-trimethylbenzene	95-63-6	NA	NA
1,2,3-trimethylbenzene	526-73-8	NA	NA

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a-Trifluorotoluene : 83%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

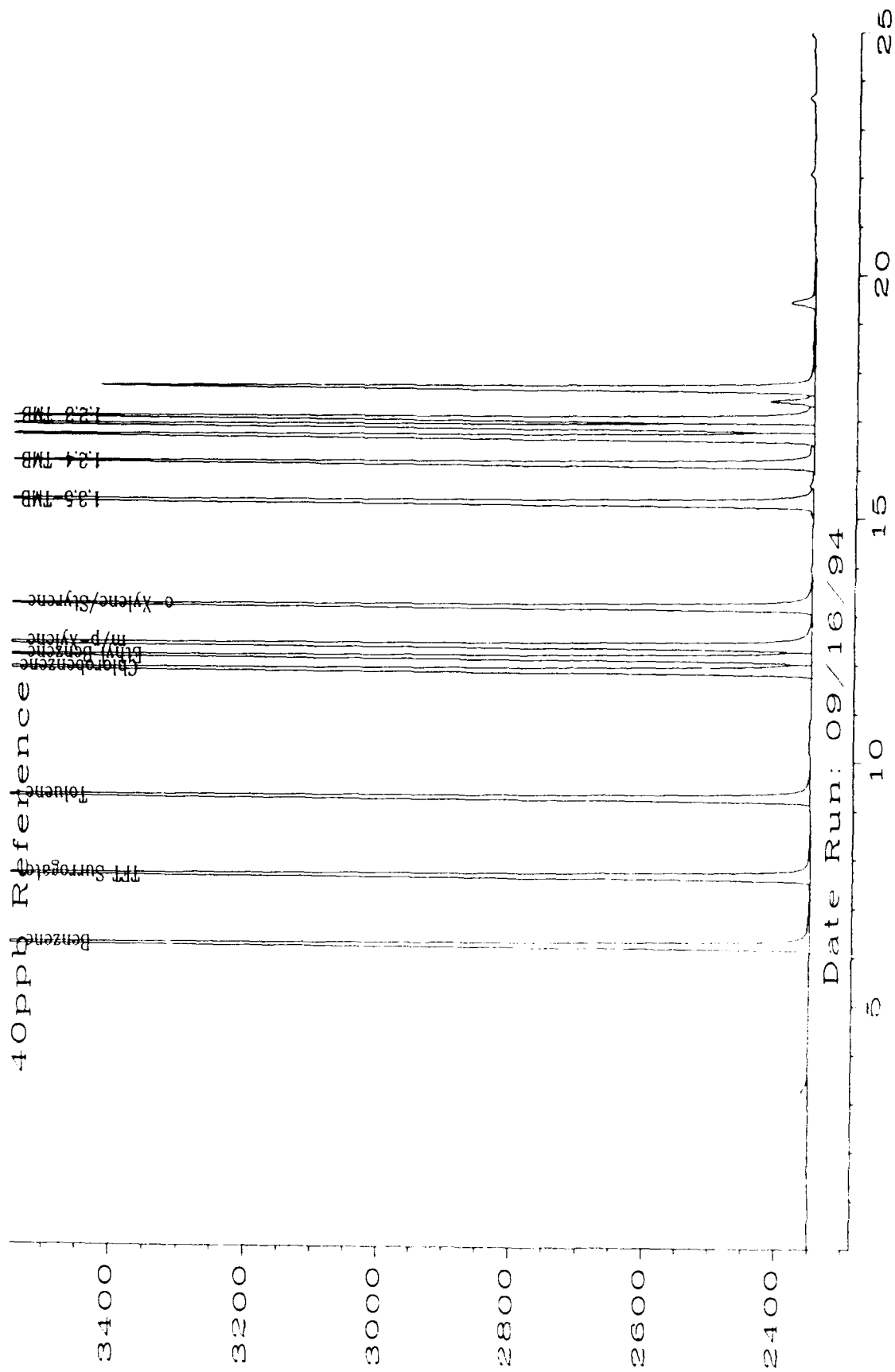
J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.

Analyst

Approved



Sig. 1 in A:\DATA\BX10916\O13FO101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Laboratory Control Sample (LCS)

LCS Number	: LCS091794	Client Project No.	: Madison Ang
Date Extracted/Prepared	: 9/17/94	Lab Project No.	: 94-3495
Date Analyzed	: 9/17/94	Dilution Factor	: 1.00
		Method	: 8020
		Matrix	: Water
		Lab File No.	: BX2091713

Compound Name	Cas Number	LCS Concentration ug/L	QC Limit ug/L
Benzene	71-43-2	28	29-47
Toluene	108-88-3	29	30-42
Ethyl Benzene	100-41-4	31	31-43
m/p-Xylene	NA	31	31-42
o-Xylene	95-47-6	31	31-42
1,3,5-trimethylbenzene	108-67-8	30	NA
1,2,4-trimethylbenzene	95-63-6	29	NA
1,2,3-trimethylbenzene	526-73-8	34	NA

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene	: 84%
QC Reporting Limits	: 77%-116%

QUALIFIERS:

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

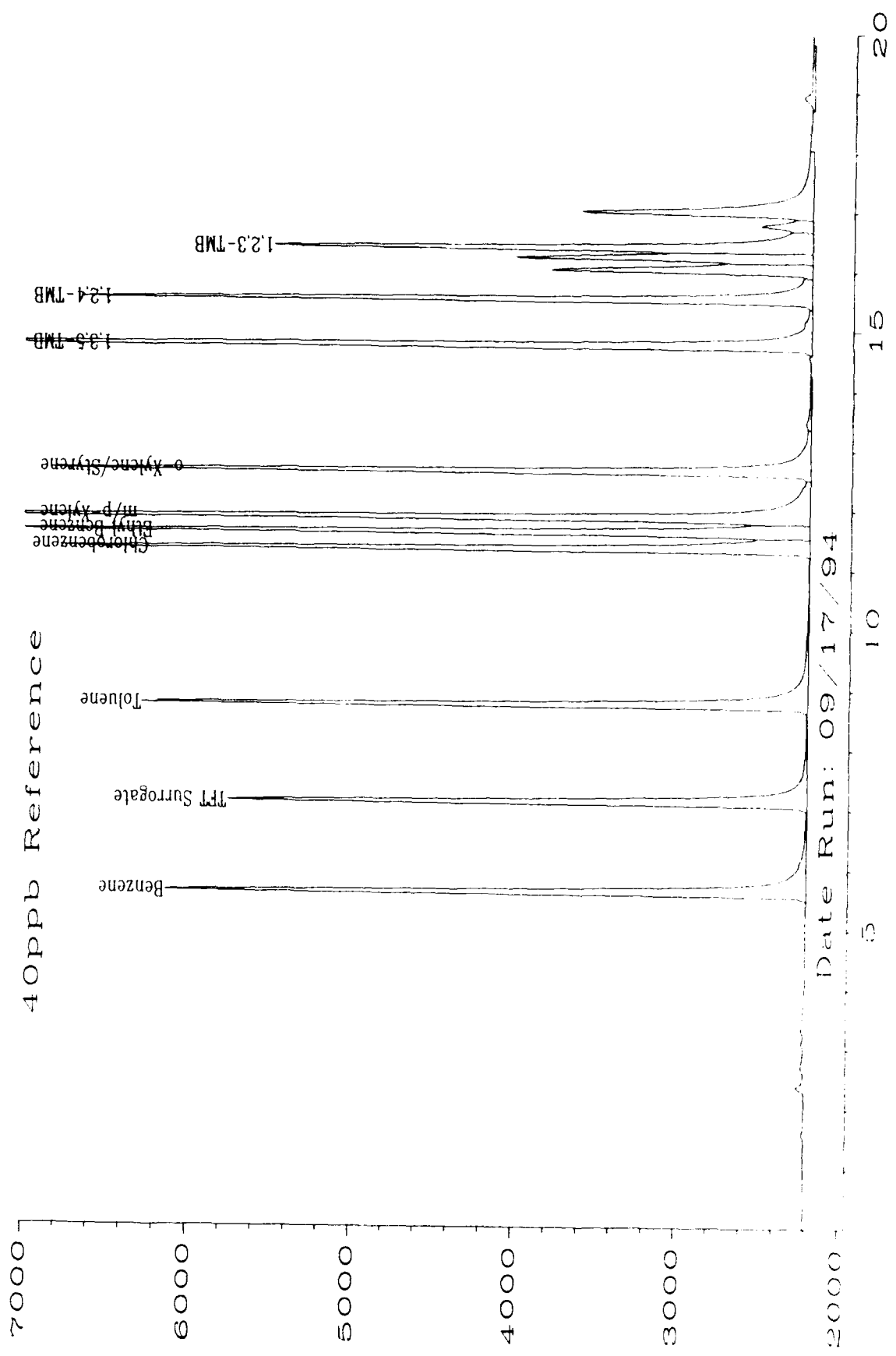
J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.

Analyst

Approved



Sig. 2 in A:\DATA\BX20917\013R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS (TVH)

Date Sampled : 9/13/94 Client Project Number : Madison Ang
Date Received : 9/14/94 Lab Project Number : 94-3495
Date Prepared : 9/20,22/94 Matrix : Water
Date Analyzed : 9/20,21,22,23/94 Method Number : 5030/Mod.8015

Evergreen Sample #	Client Sample #	Surrogate Recovery	TVH mg/L	MDL mg/L
MB092094	Method Blank	100%	U	0.1
X94343	MW-13	85%	U	0.1
X94344	MW-12	79%	U	0.1
X94345	MW-11	74%	U	0.1
X94346	MW-25	89%	U	0.1
X94347	MW-UNK	87%	U	0.1
MB092294	Method Blank	100%	U	0.1
X94342	MW-16	88%	U	0.1

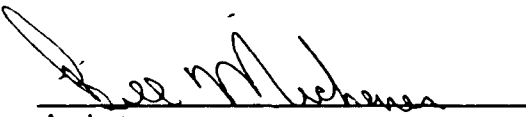
QUALIFIERS

U = TVH analyzed for but not detected.

B = TVH found in blank as well as sample (blank data should be compared).

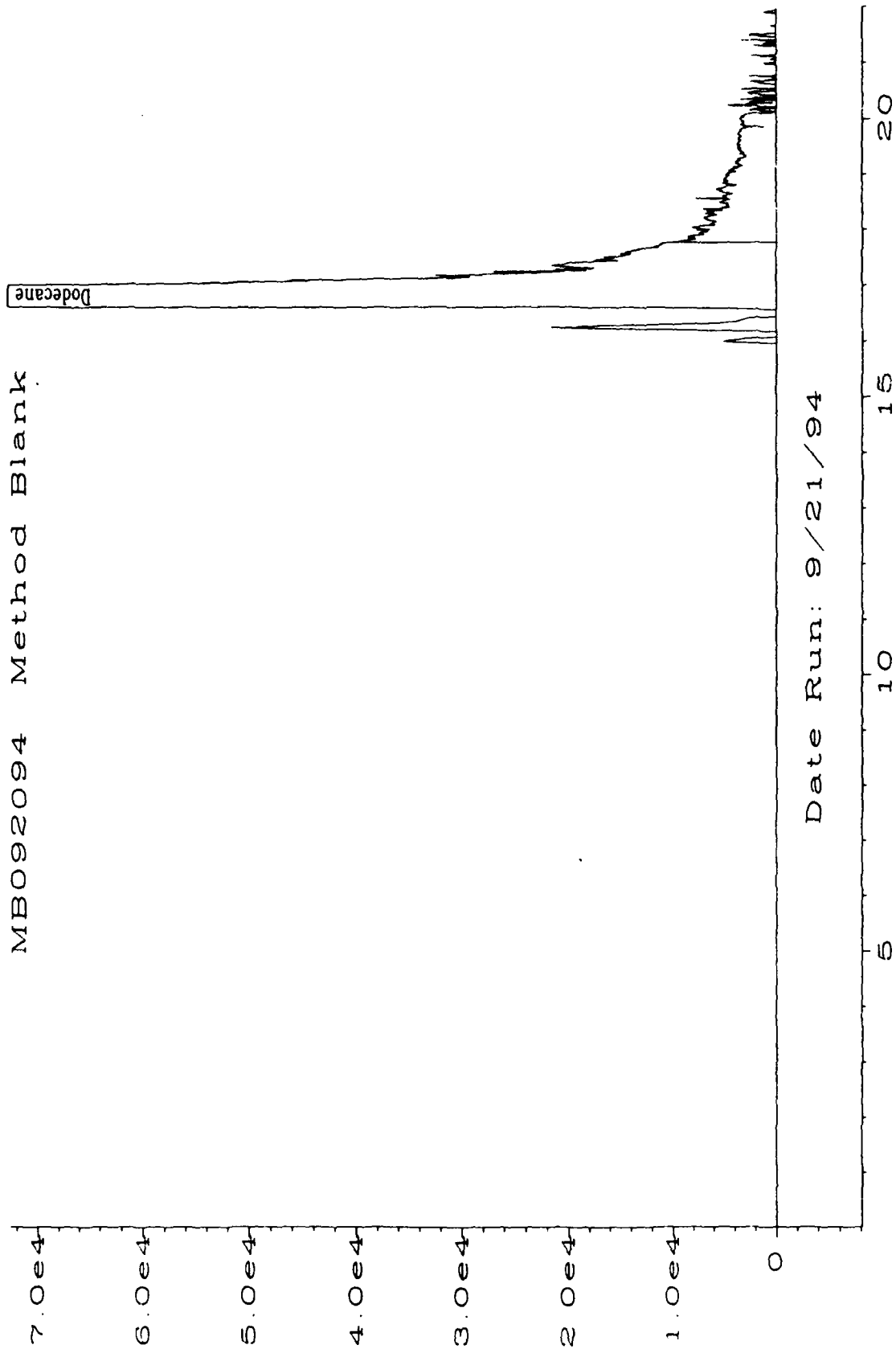
E = Extrapolated value.

MDL = Method Detection Limit


Analyst

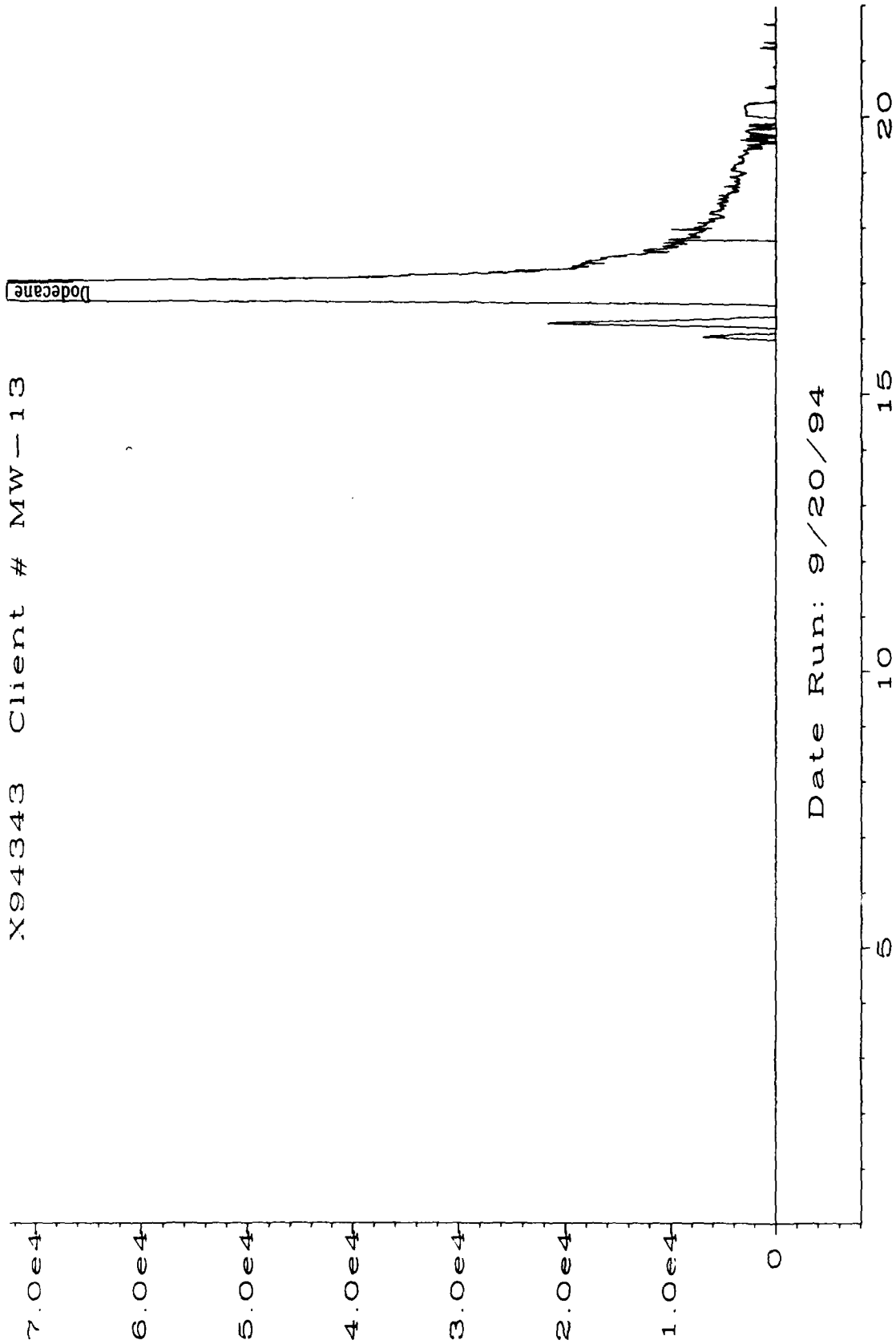

Approved

MB092094 Method Blank



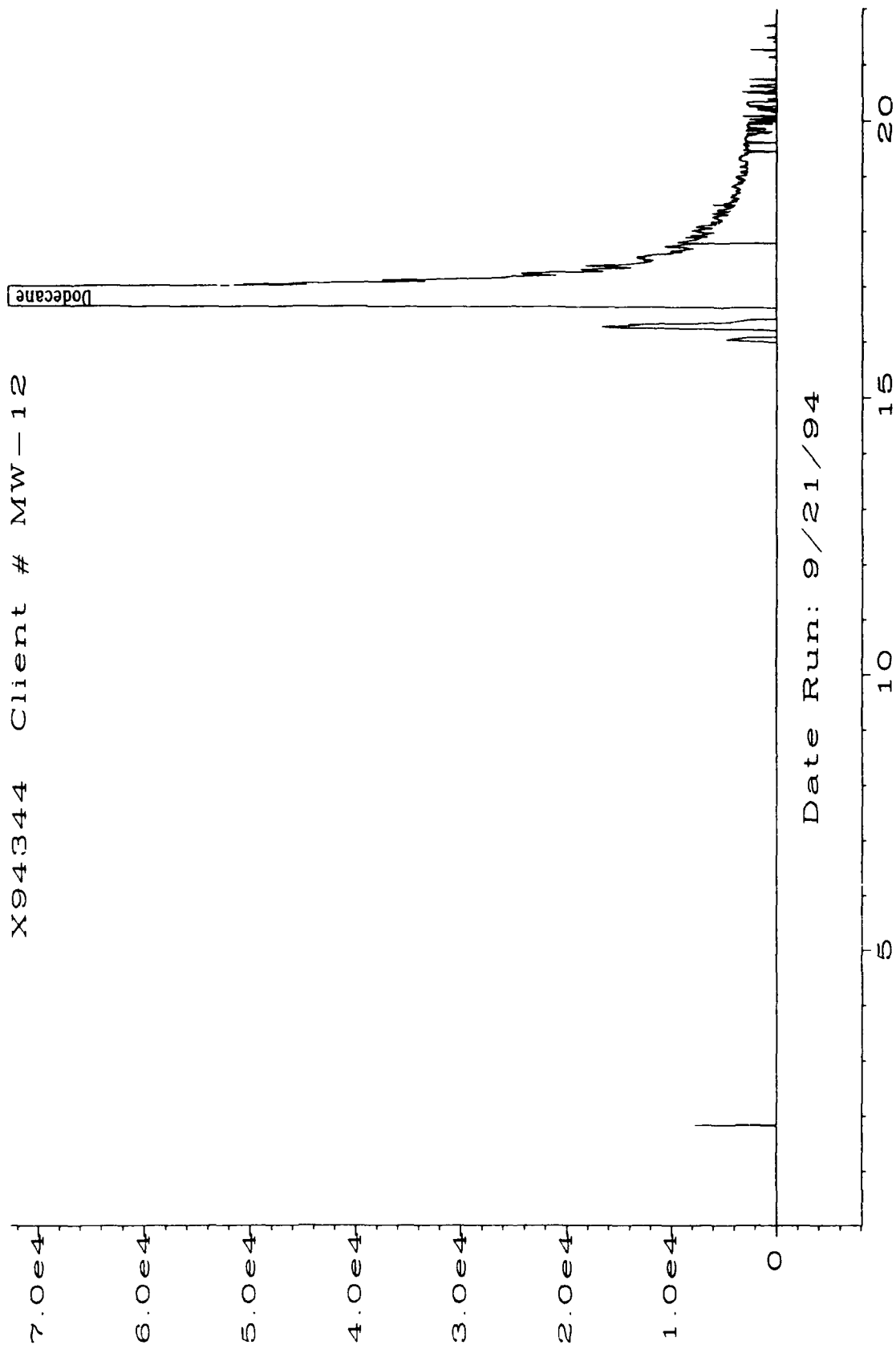
Sig. 1 in C:\HPCHEM\1\DATA\TVH0920\018F0101.D

X94343 Client # MW-13



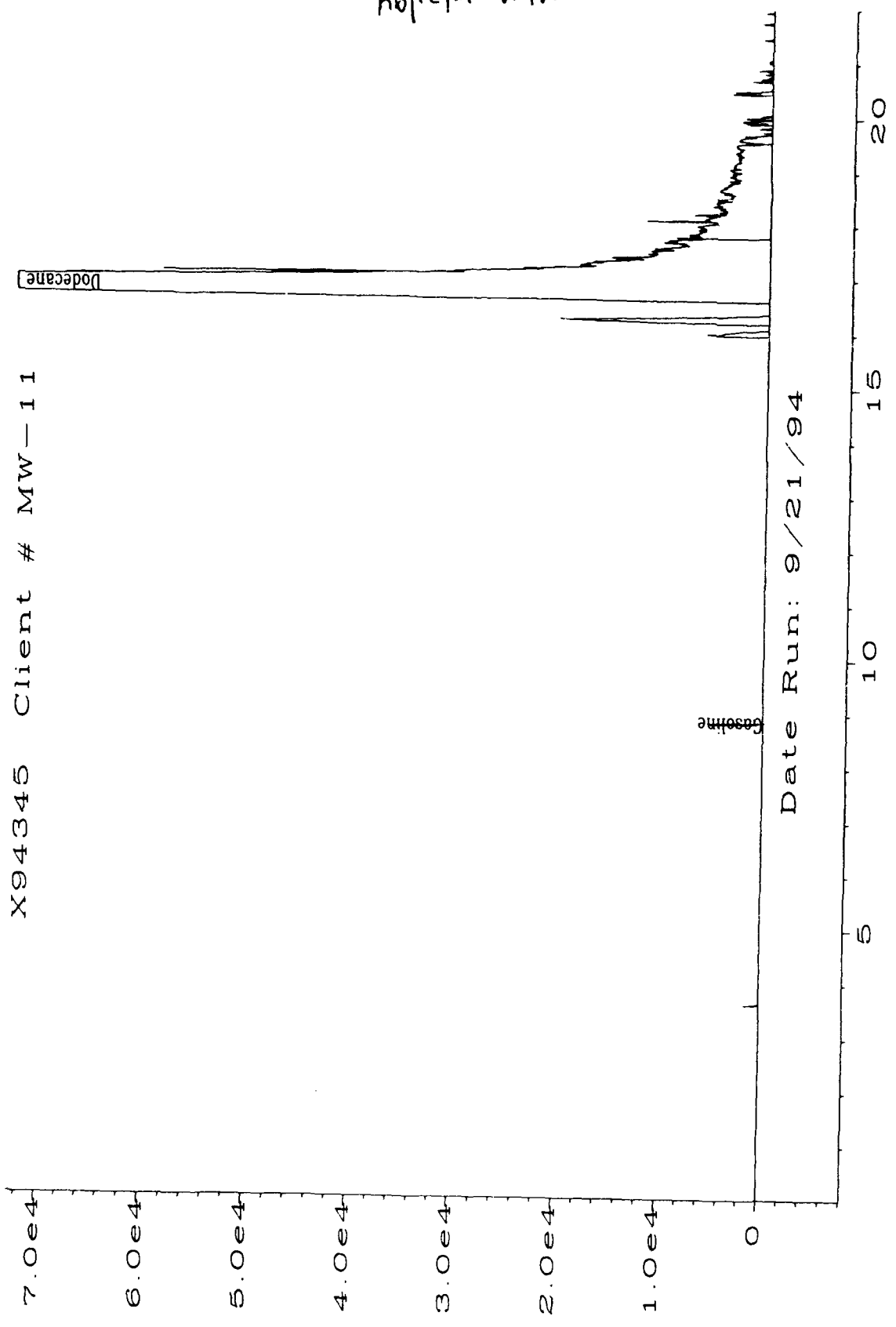
Sig. 1 in C:\HPCHEM\1\DATA\TVH0920\013F0101.D

X94344 Client # MW-12



Sig. 1 in C:\HPCHEM\1\DATA\TVH0920\014F0101.D

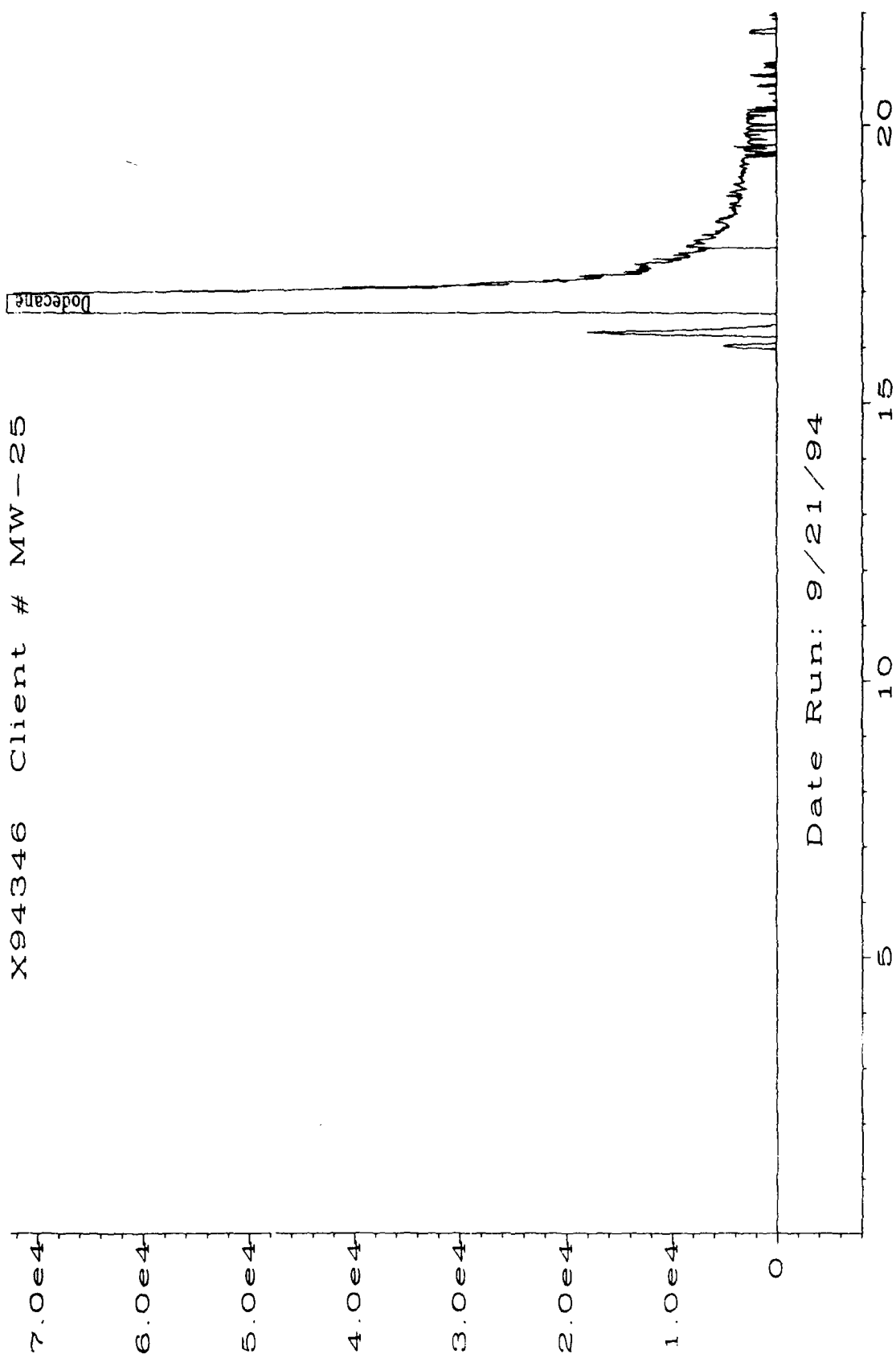
X94345 Client # MW-11



Sig. 1 in C:\HPCHEM\1\DATA\TVH0920\015F0101.D

mw 10/31/94

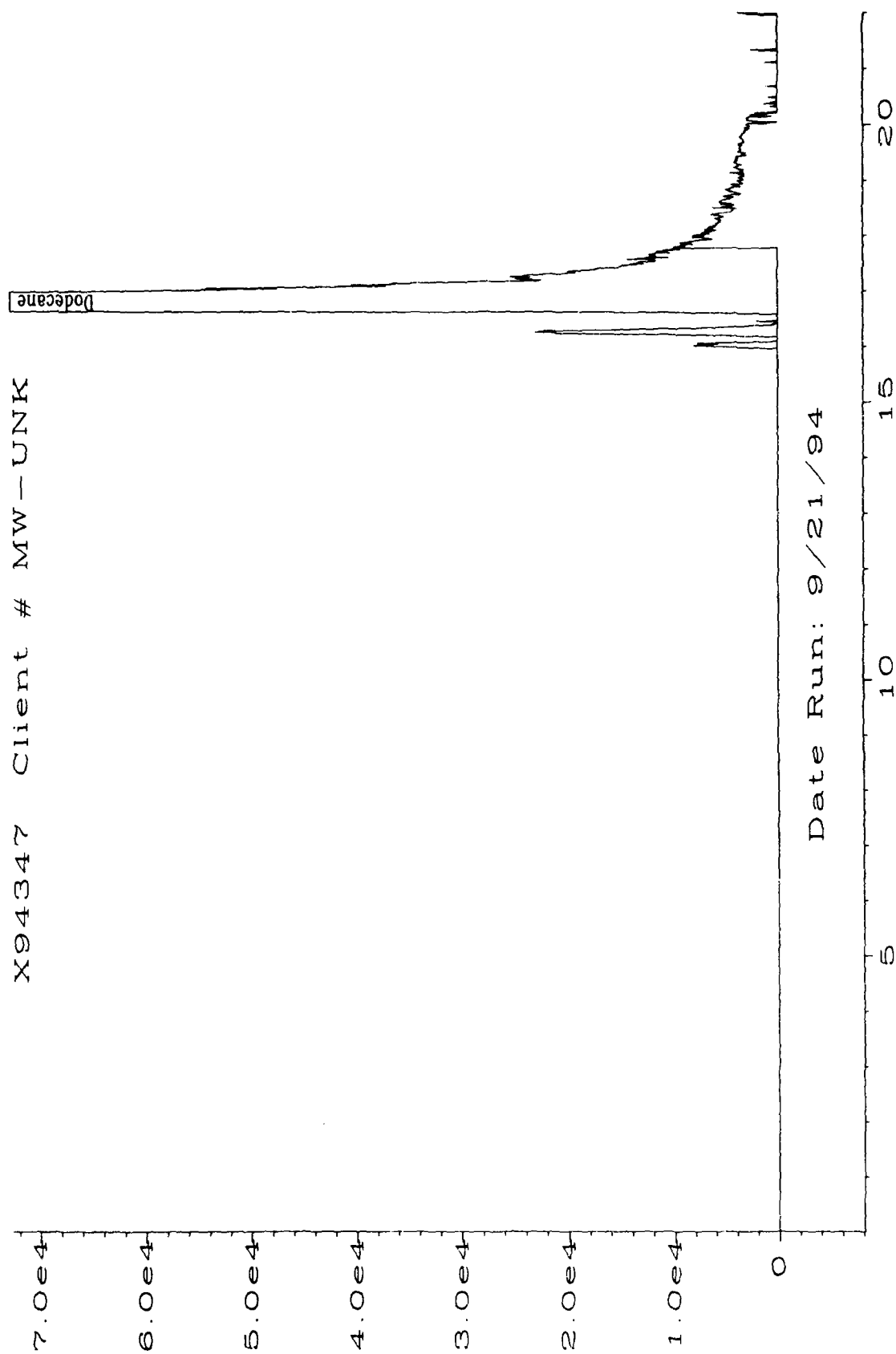
X94346 Client # MW-25



Date Run: 9/21/94

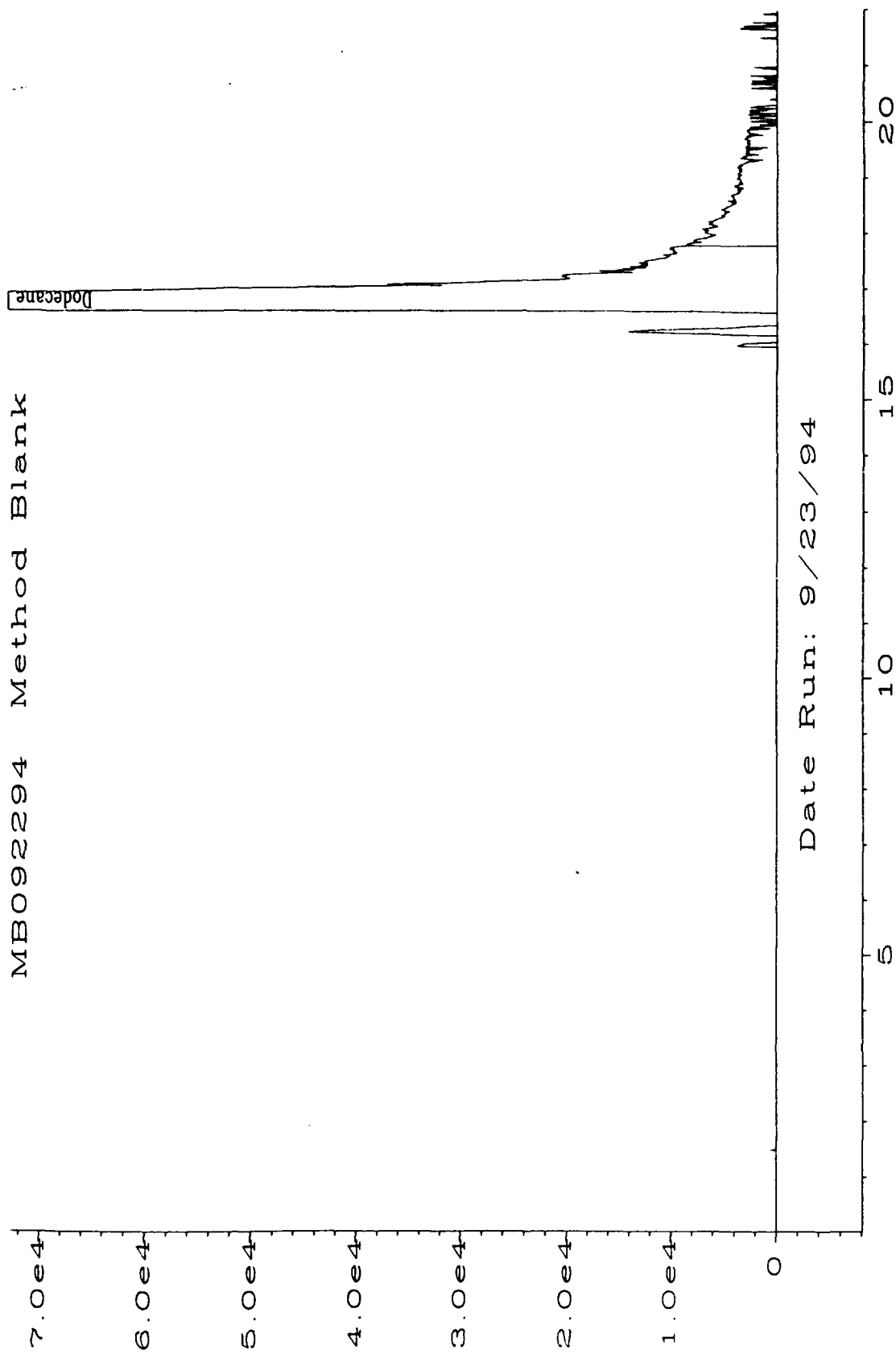
Sig. 1 in C:\HPCHEM\1\DATA\TVH0920\016F0101.D

X94347 Client # MW-UNK



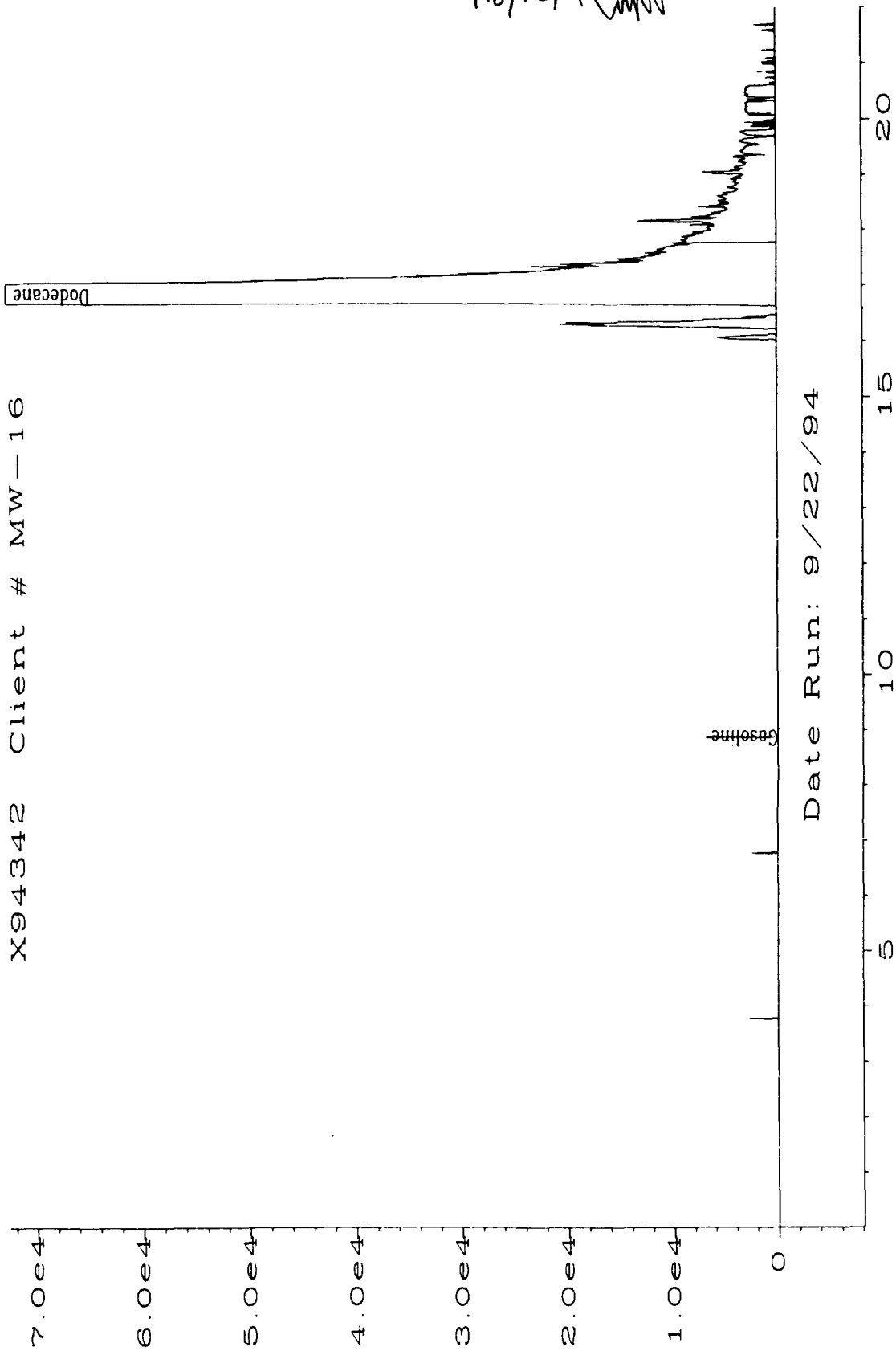
Sig. 1 in C:\HPCHEM\1\DATA\TVH0920\017F0101.D

MB092294 Method Blank



Sig. 1 in C:\HPCHEM\1\DATA\TVH0922\018F0101.D

X94342 Client # MW-16



Sig. 1 in C:\HPCHEM\1\DATA\TVH0922\002FO101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS (TVH)
Laboratory Control Sample (LCS)

LCS Number : LCS092094 Client Project Number : Madison Ang
Date Prepared : 9/21/94 Lab Project Number : 94-3495
Date Analyzed : 9/21/94 Matrix : Water
Sequence Number : TVH0920 Method Number : 3500/Mod. 8015

<u>Compound Name</u>	<u>Theoretical Concentration mg/L</u>	<u>LCS Concentration mg/ L</u>	<u>QC Limit mg/L</u>
Gasoline	5	6.3	3.5-6.5

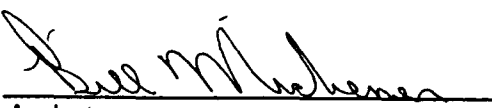
QUALIFIERS

U = TEH analyzed for but not detected.

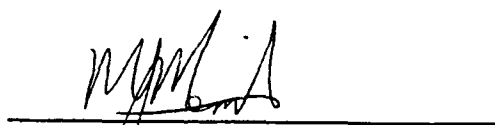
B = TEH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

NA = Not Available.



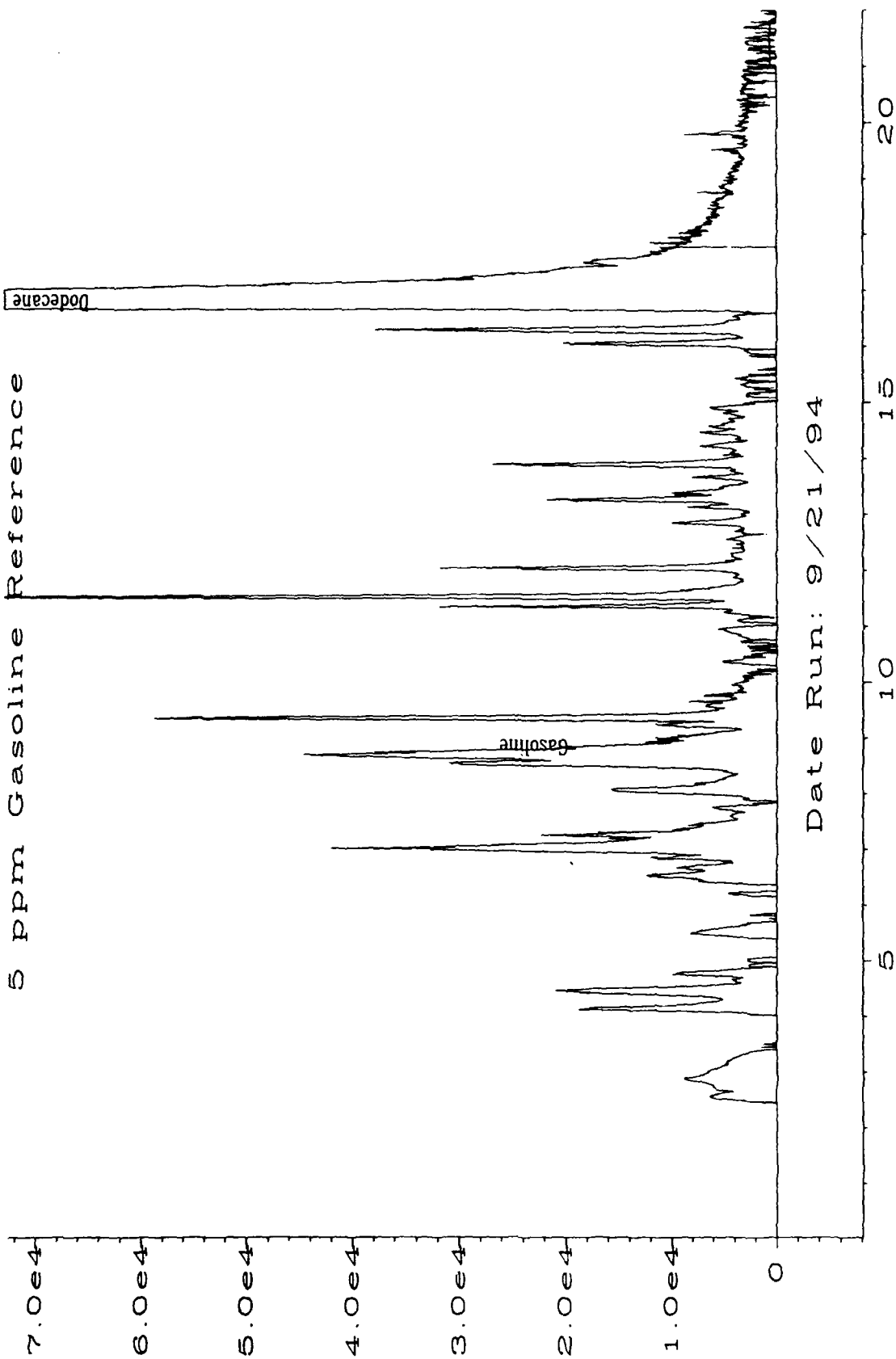
Analyst



Approved

LC5092094

5 ppm Gasoline Reference



Sig. 1 in C:\HPCHEM\1\DATA\TVH0920\047F0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS (TVH)
Laboratory Control Sample (LCS)

LCS Number : LCS092294 Client Project Number : Madison Ang
Date Prepared : 9/23/94 Lab Project Number : 94-3495
Date Analyzed : 9/23/94 Matrix : Water
Sequence Number : TVH0922 Method Number : 3500/Mod. 8015

<u>Compound Name</u>	<u>Theoretical Concentration mg/L</u>	<u>LCS Concentration mg/ L</u>	<u>QC Limit mg/L</u>
Gasoline	5	6	3.5-6.5

QUALIFIERS

U = TEH analyzed for but not detected.

B = TEH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

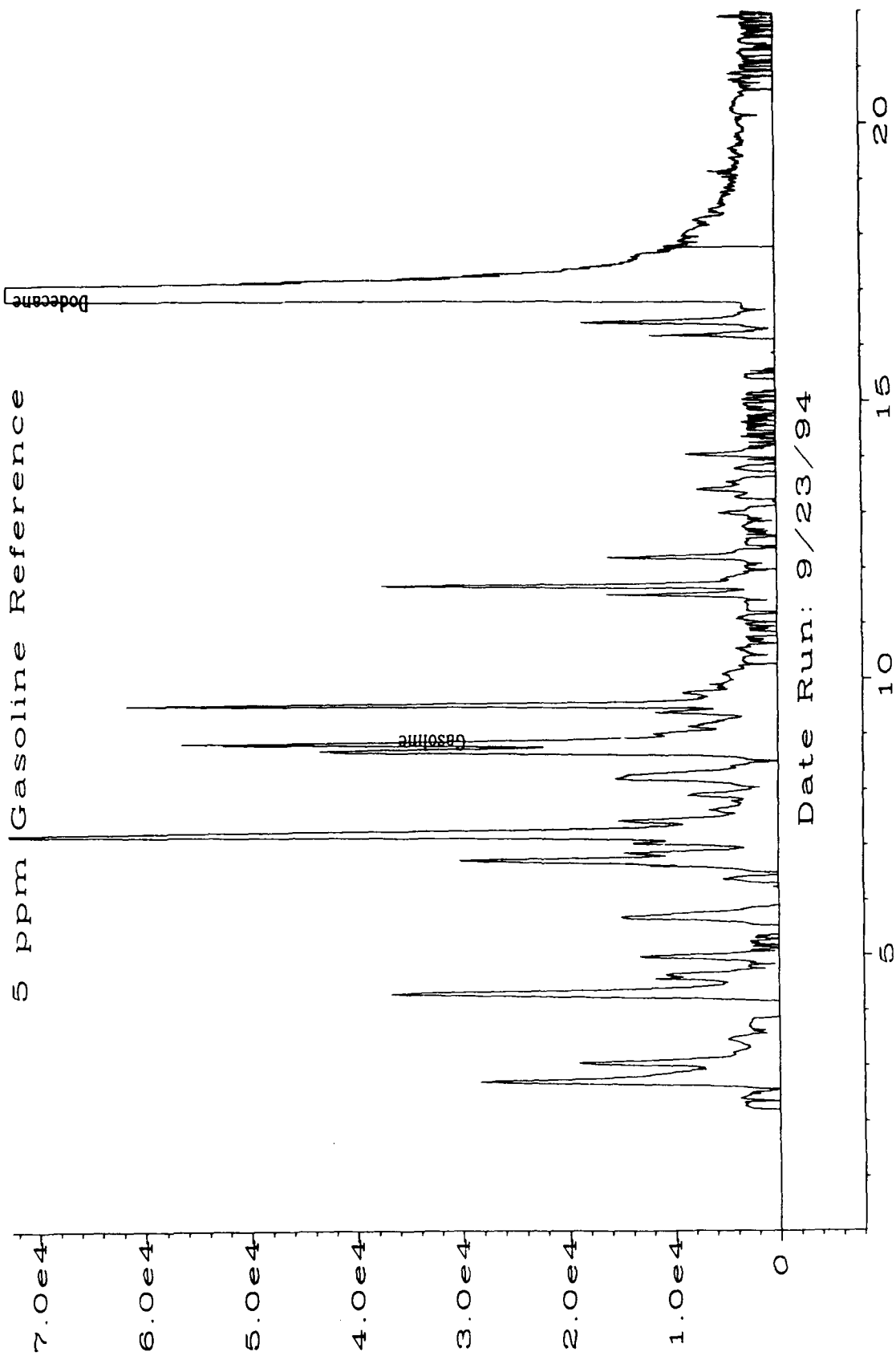
NA = Not Available.



Analyst



Approved



Sig. 1 in C:\HPCHEM\1\DATA\TVH0922\044FO101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL EXTRACTABLE HYDROCARBONS (TEH)

Date Sampled : 9/13/94 Client Project Number : Madison Ang
Date Received : 9/14/94 Lab Project Number : 94-3495
Date Prepared : 9/15/94 Matrix : Water
Date Analyzed : 9/21/94 Method Number : 3500/Mod.8015

<u>Evergreen Sample #</u>	<u>Client Sample #</u>	<u>Surrogate Recovery</u>	<u>TEH mg/L</u>	<u>MDL mg/L</u>
WB091594	Water Method Blank	101%	U	0.5
X94342	MW-16	84%	U	0.5
X94343	MW-13	95%	U	0.5
X94344	MW-12	106%	U	0.5
X94345	MW-11	101%	U	0.5
X94346	MW-25	96%	U	0.5

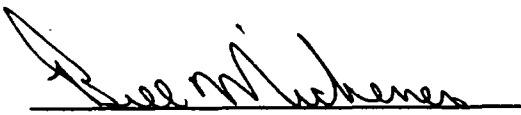
QUALIFIERS

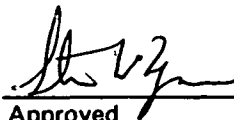
U = TEH analyzed for but not detected.

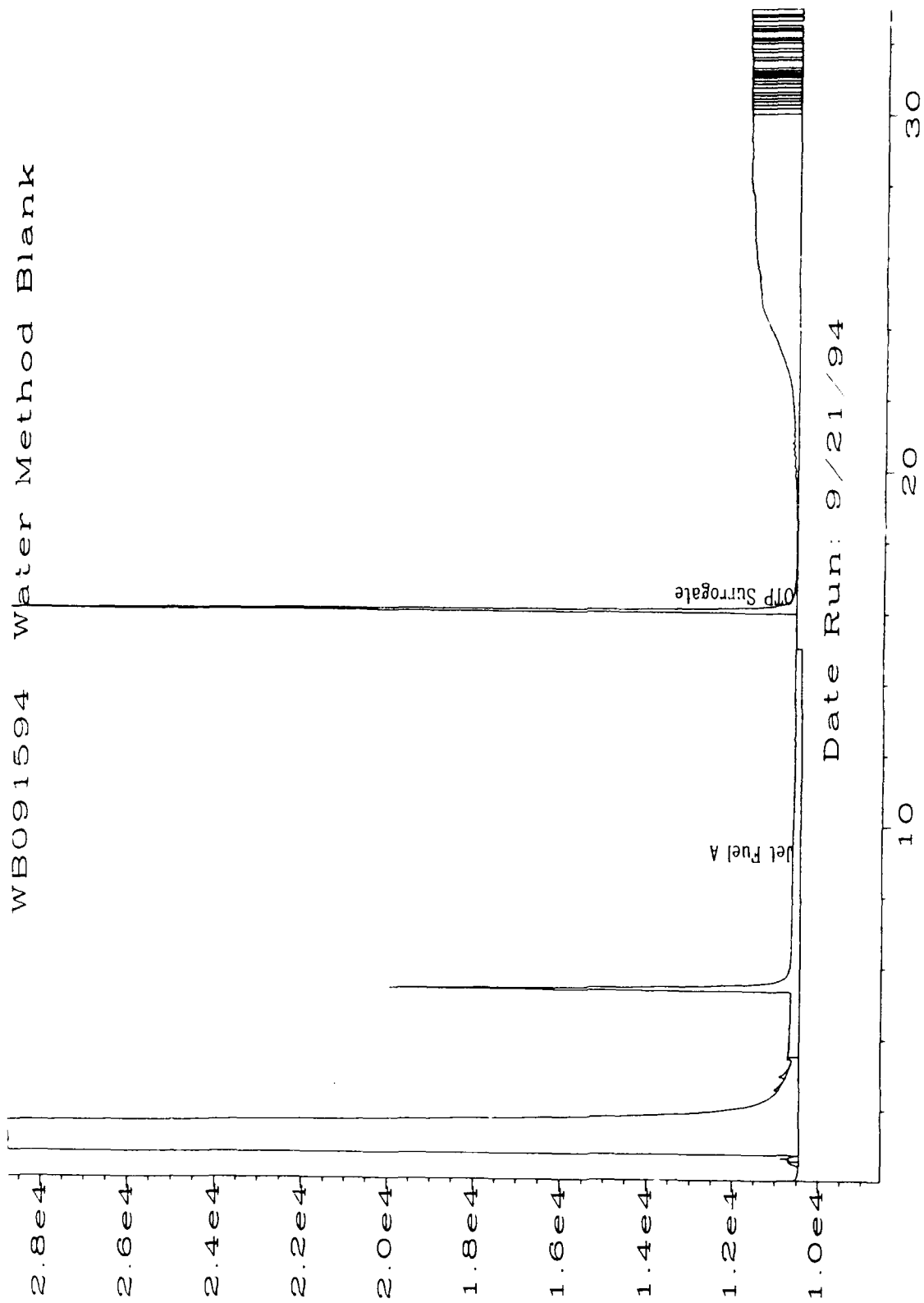
B = TEH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

MDL = Method Detection Limit

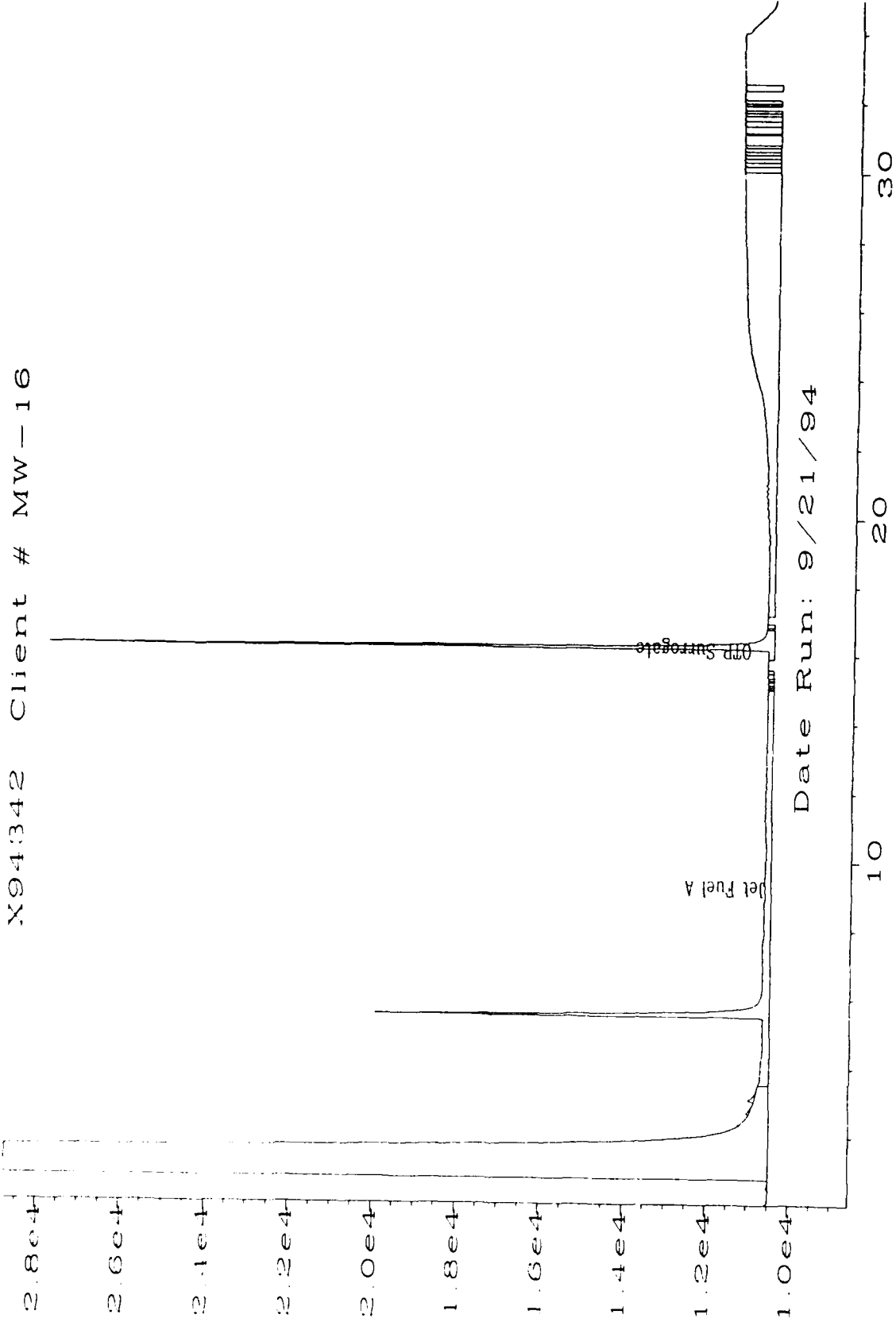

Analyst


Approved



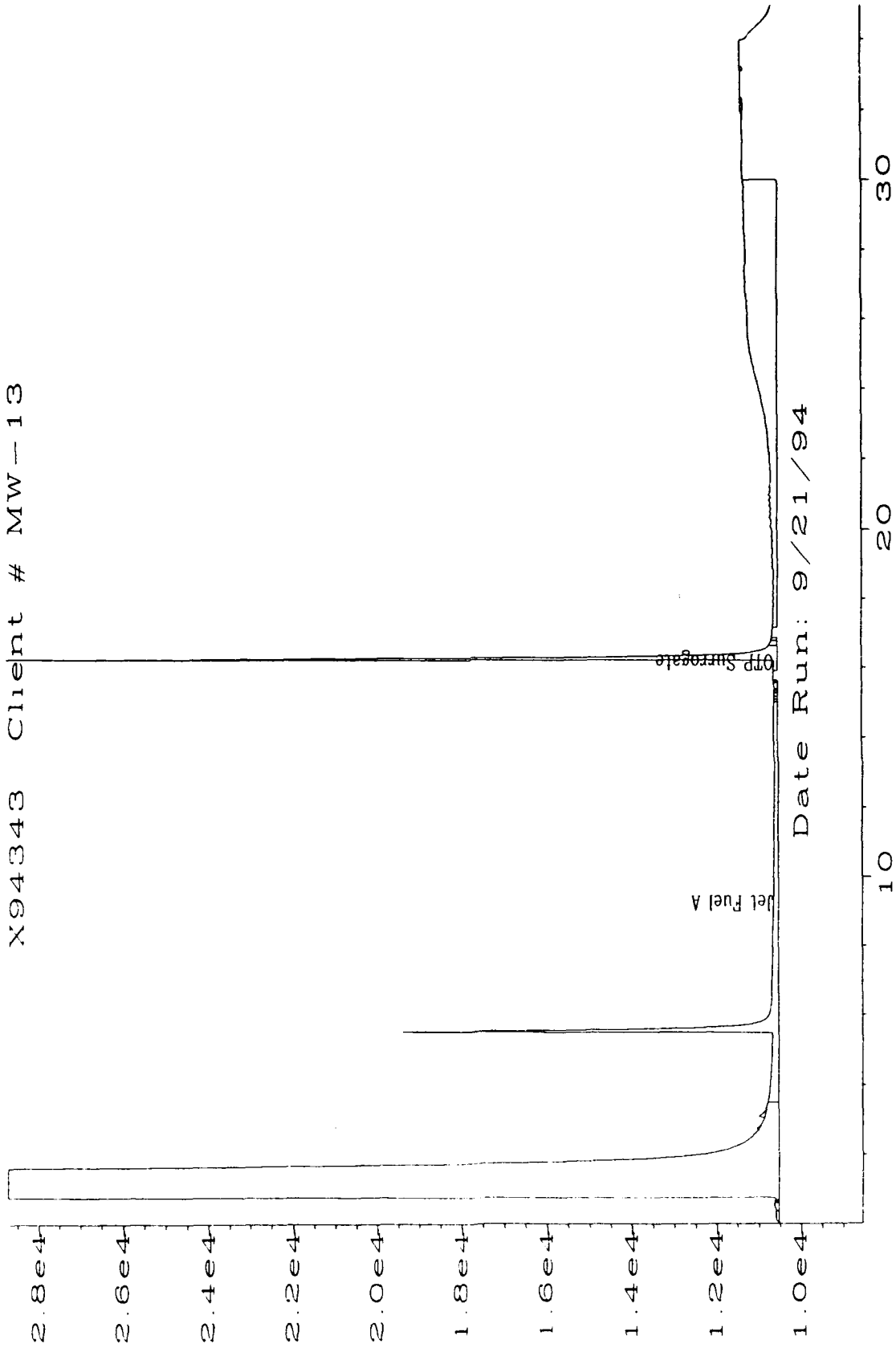
Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\011R0101.D

X94342 Client # MW-16



Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\025R0101.D

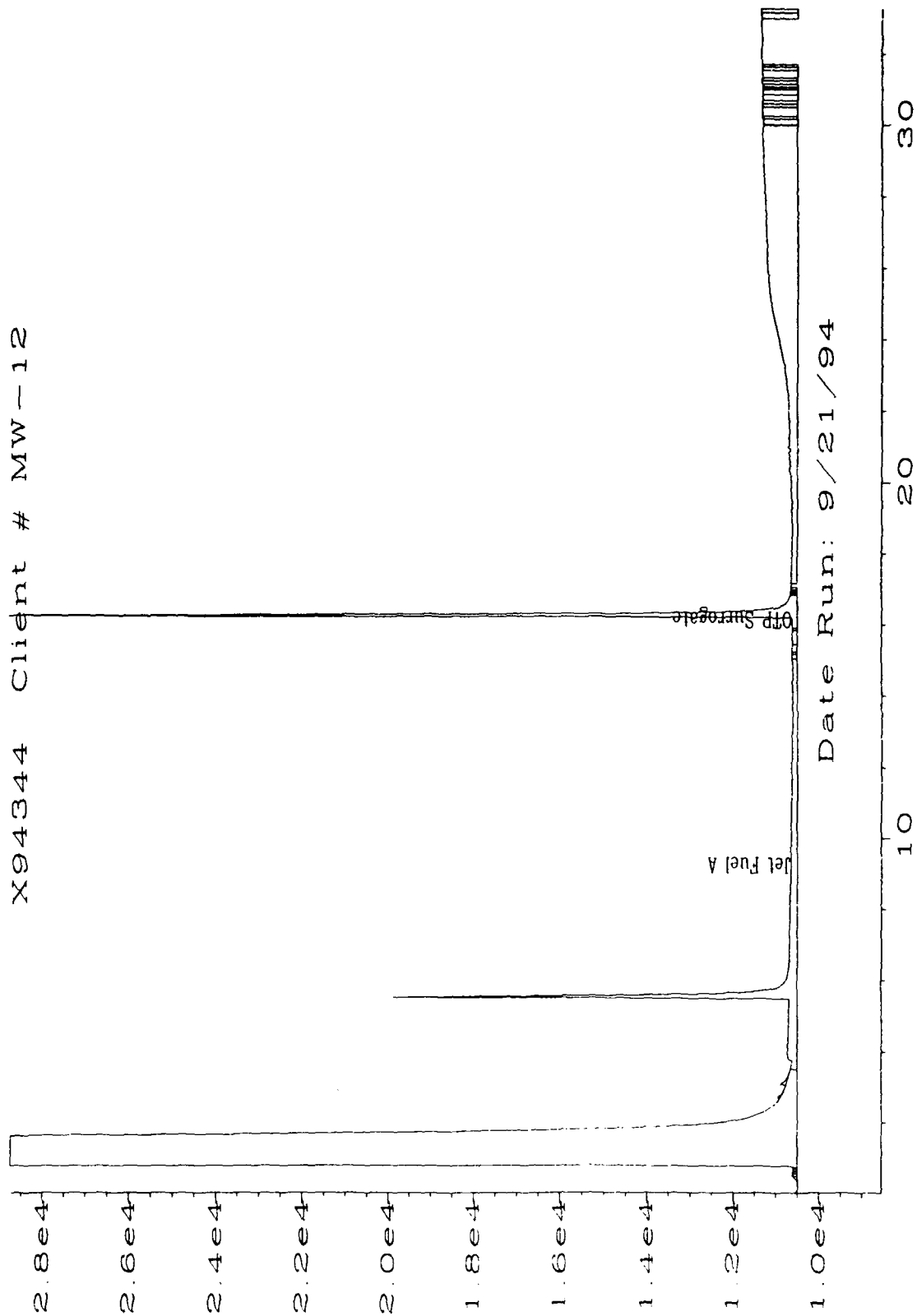
X94343 Client # MW-13



Date Run: 9/21/94

Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\026R0101.D

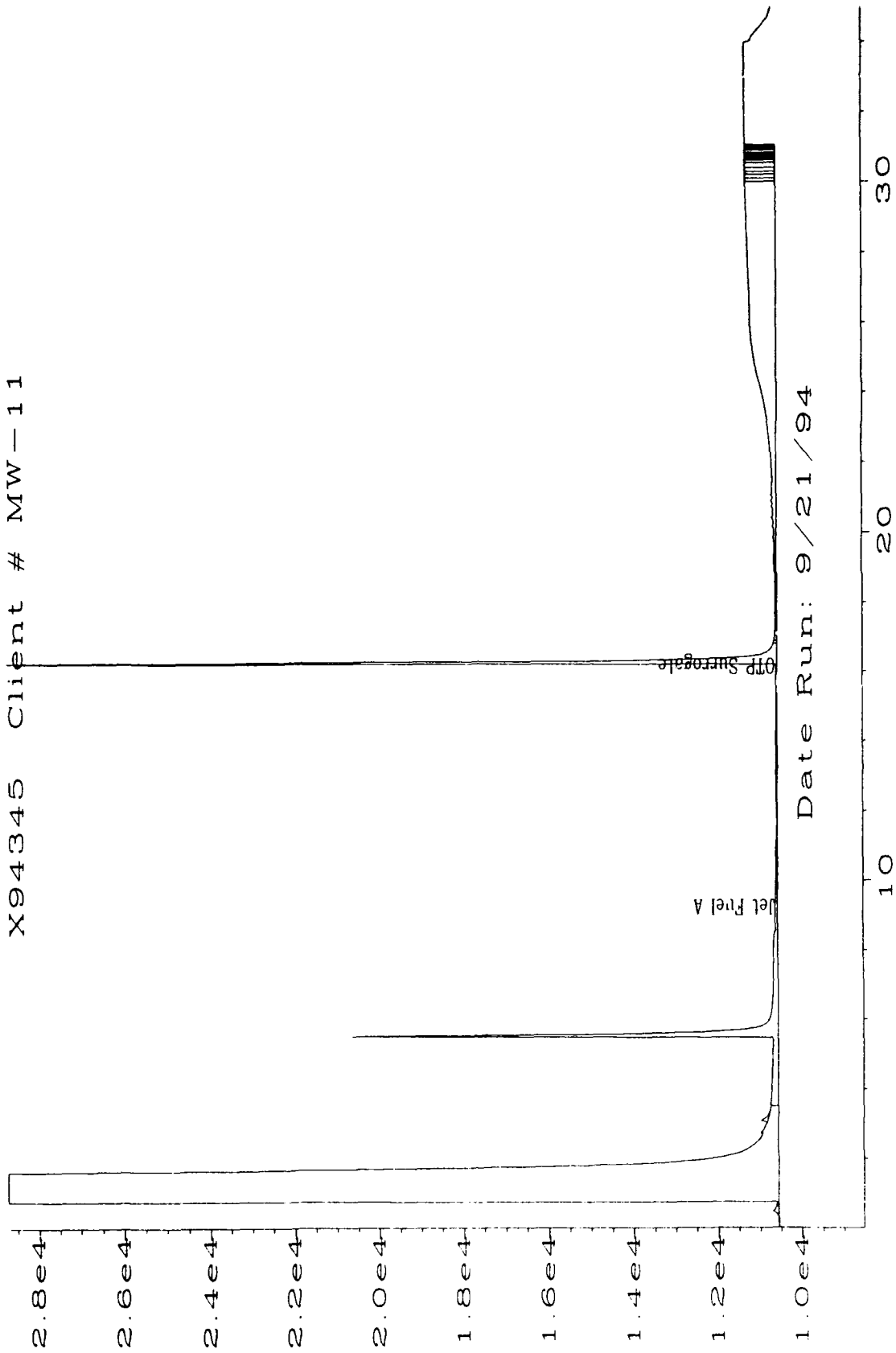
X94344 Client # MW-12



Date Run: 9/21/94

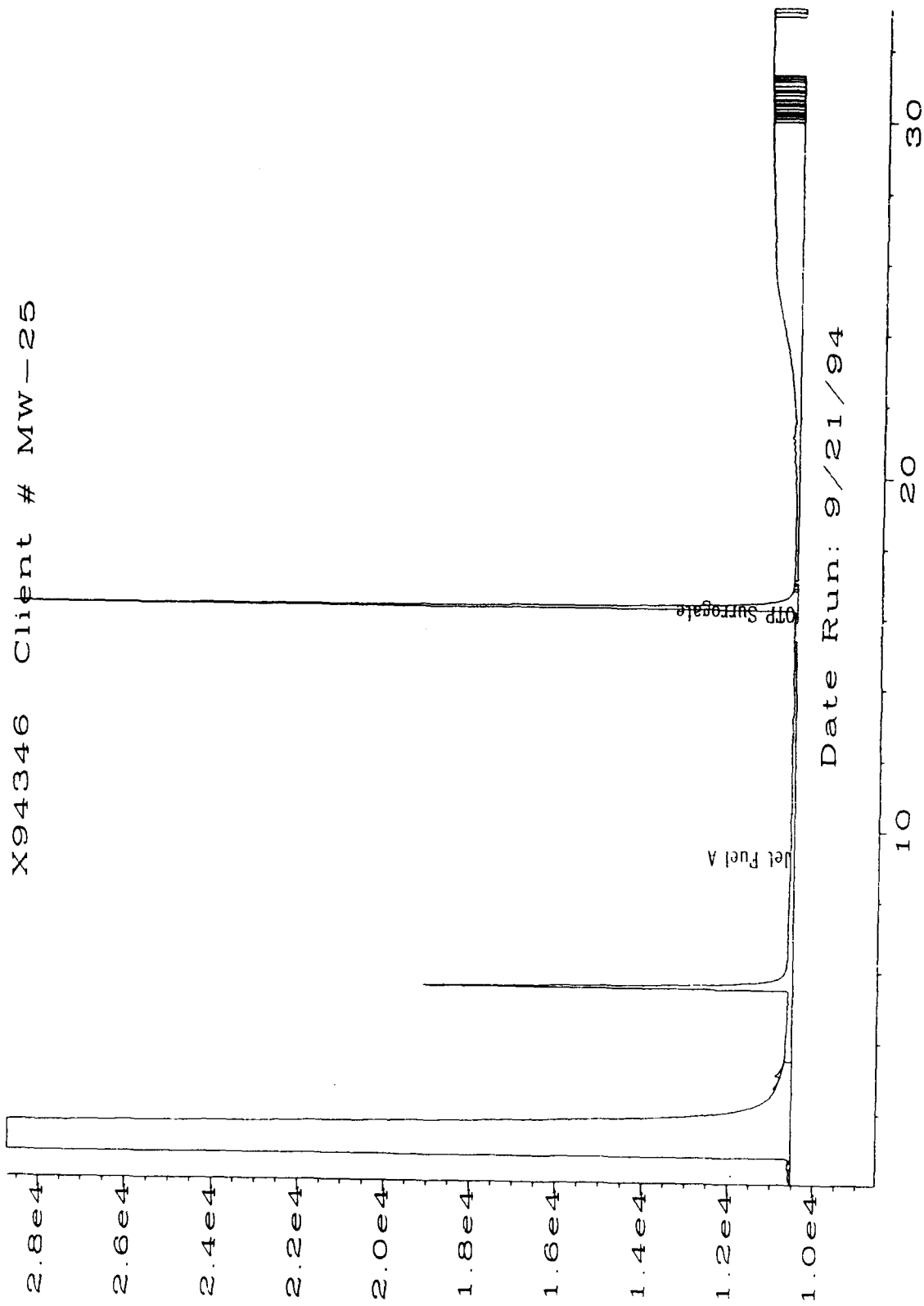
Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\027R0101.D

X94345 Client # MW-11



Date Run: 9/21/94

Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\028R0101.D



Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\029R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL EXTRACTABLE HYDROCARBONS (TEH)
Laboratory Control Sample (LCS)

LCS Number : LCS092094 Client Project Number : Madison Ang
Date Prepared : 9/21/94 Lab Project Number : 94-3495
Date Analyzed : 9/22/94 Matrix : Water
Sequence Number : TEH0920 Method Number : 3500/Mod. 8015

<u>Compound Name</u>	<u>Theoretical Concentration mg/L</u>	<u>LCS Concentration mg/ L</u>	<u>QC Limit mg/L</u>
Jet Fuel A	2000	2706	1200-2800

QUALIFIERS

U = TEH analyzed for but not detected.

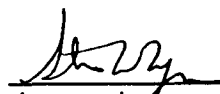
B = TEH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

NA = Not Available.



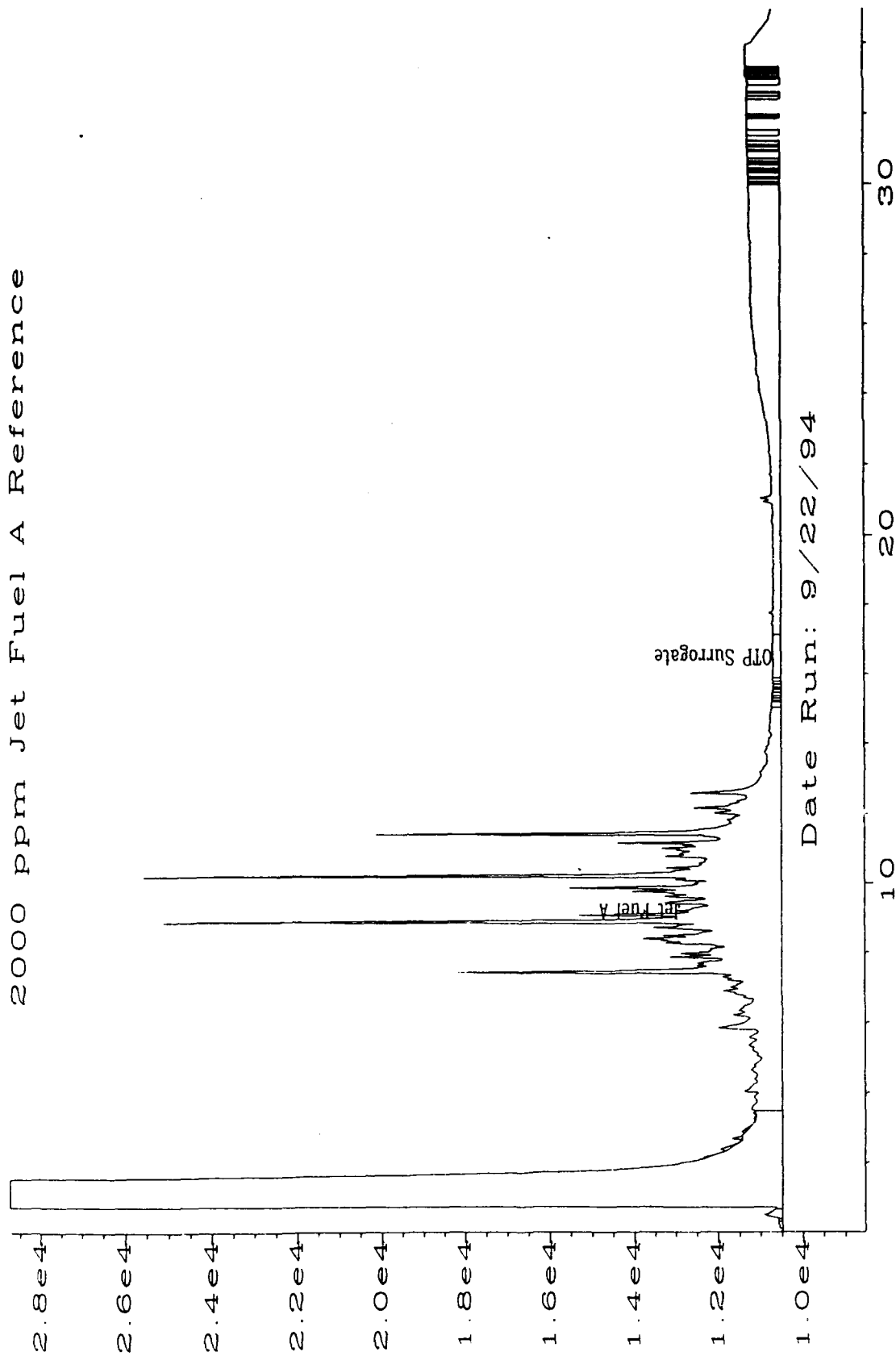
Analyst



Approved

LS092094

2000 ppm Jet Fuel A Reference



Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\042R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303)425-6021

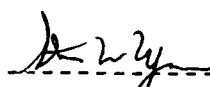
Methane Data Report

Date Sampled	: 09/13/94	Client Project No.:	Madison ANG
Date Received	: 09/14/94	Lab Project No.	: 94-3495
Date Prepared	: 09/27/94	Dilution Factor	: see below
Date Analyzed	: 09/27/94	Method	: RSKSOP-175
		Matrix	: Water

Evergreen Sample #	Client Sample #	Matrix	Concentration mg/L	EDL* mg/L
-----	-----	-----	-----	-----
MB092794	Method Blank	Water	U	0.001 (DF=1)
x94342	MW-16	Water	0.21	0.001 (DF=1)
x94343	MW-13	Water	U	0.001 (DF=1)
x94344	MW-12	Water	U	0.001 (DF=1)
x94345	MW-11	Water	U	0.001 (DF=1)
x94346	MW-25	Water	U	0.001 (DF=1)
x94347	MW-UNK	Water	U	0.001 (DF=1)

QUALIFIERS:

U = Compound analyzed for, but not detected above the
Estimated Detection Limit.
B = Compound also found in the blank, blank data should be
compared.
* = Indicates the Estimated Detection Limit.
E = Extrapolated value.

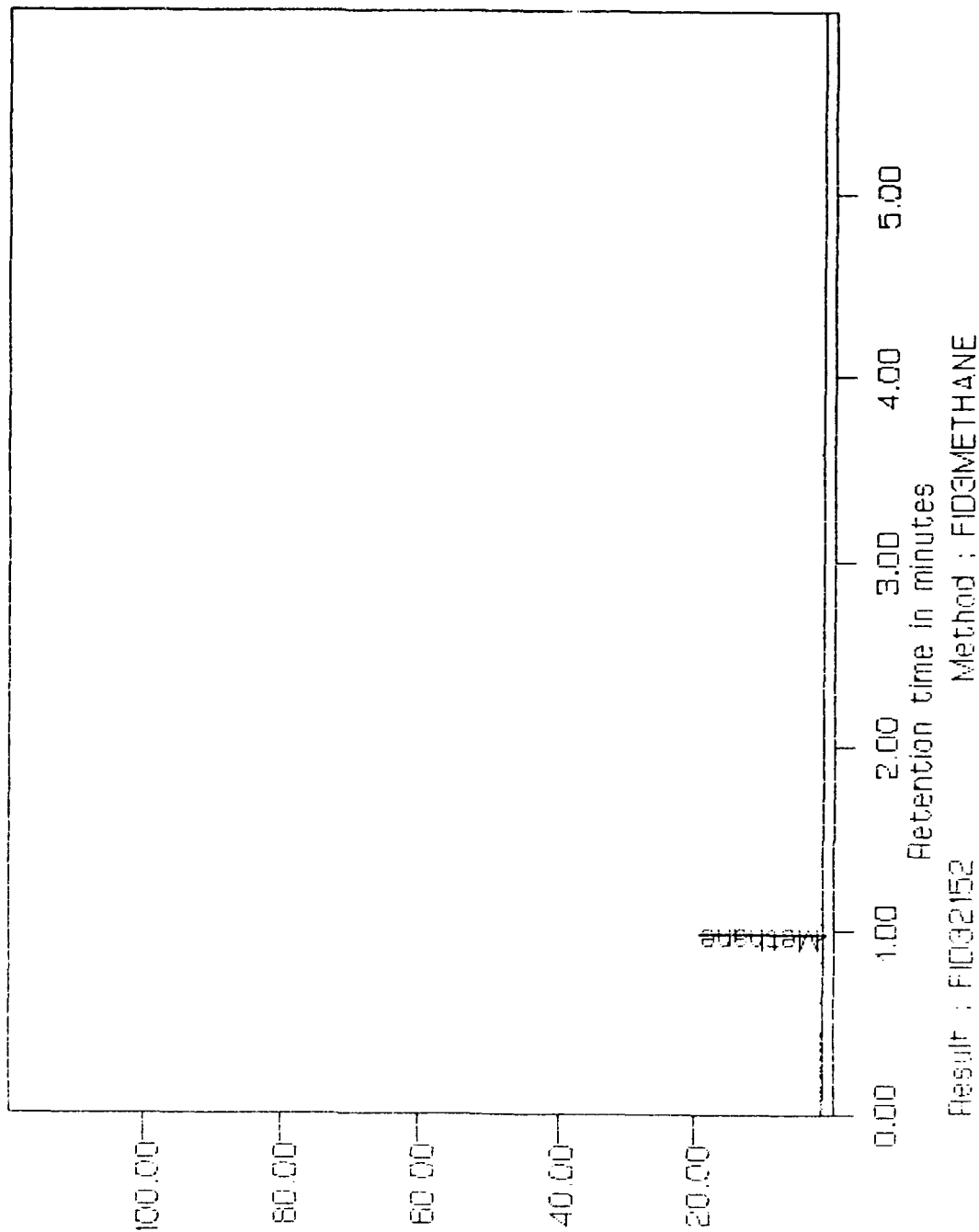


Analyst



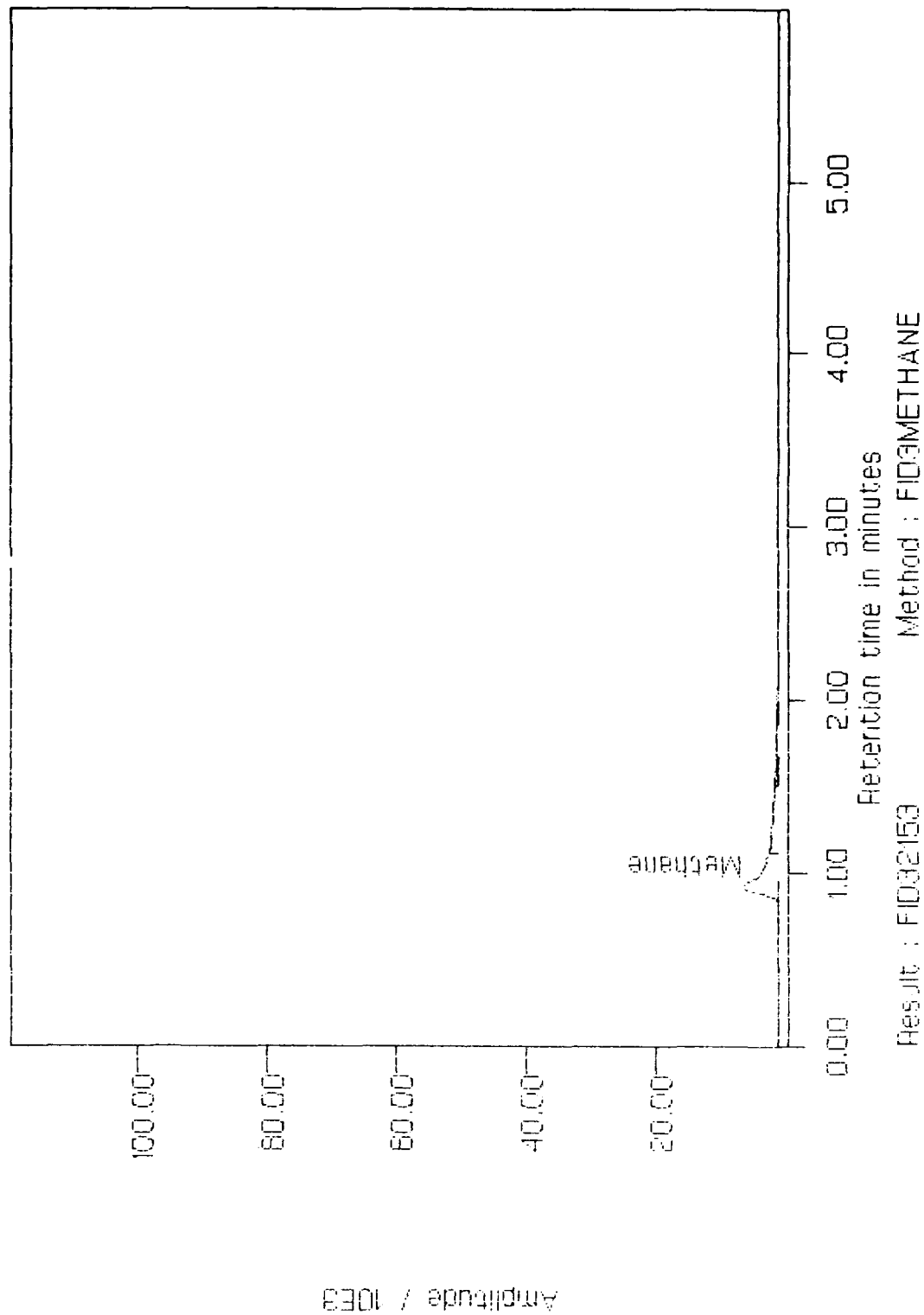
Approved

Sample : M8092794 Method Blank Injected : TUE SEP 27, 1994 1:58:54 PM

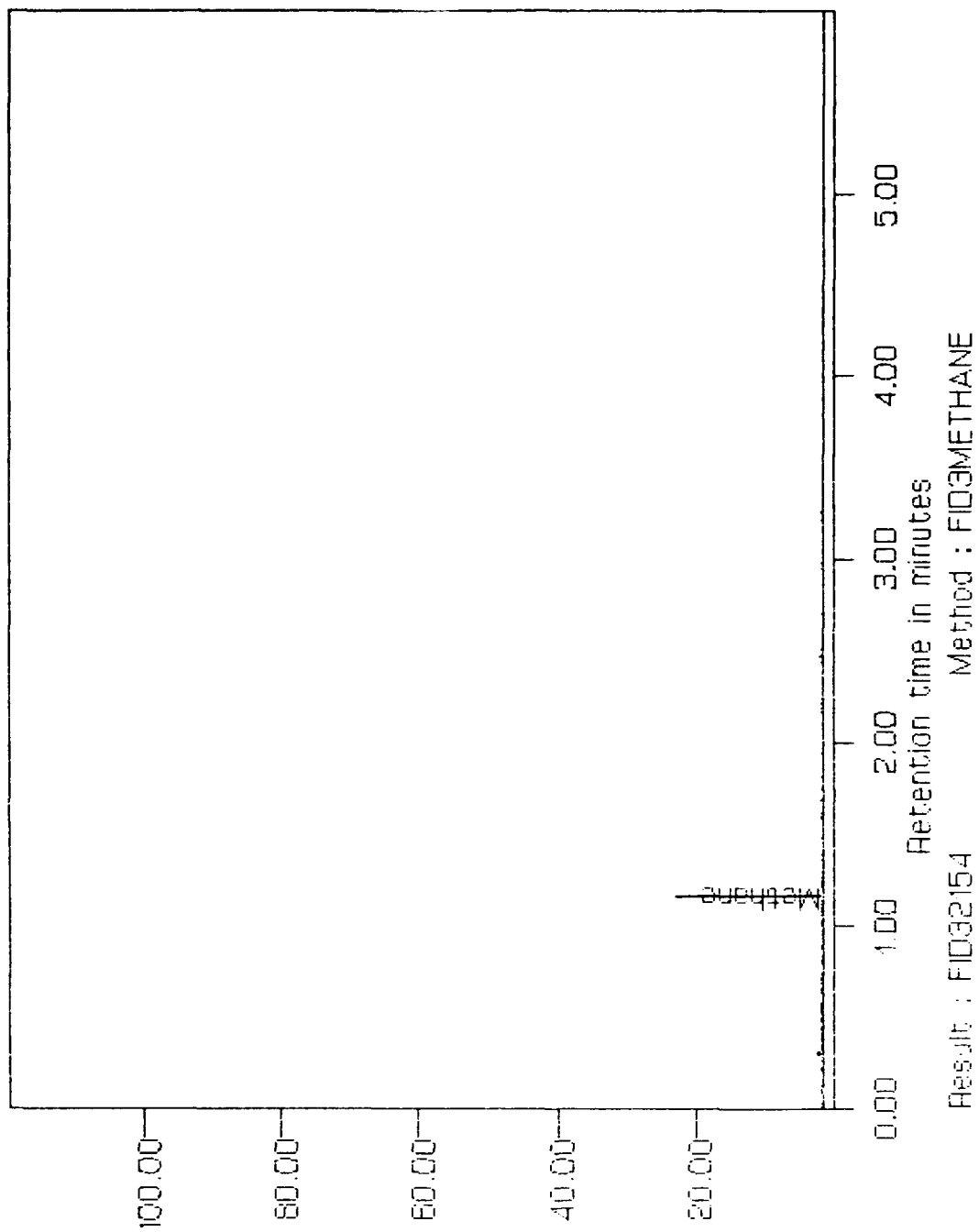


10/31/94 mhm

Sample : x94342 @ 73 F Client # MW-16 Injected : TUE SEP 27, 1994 2:33:

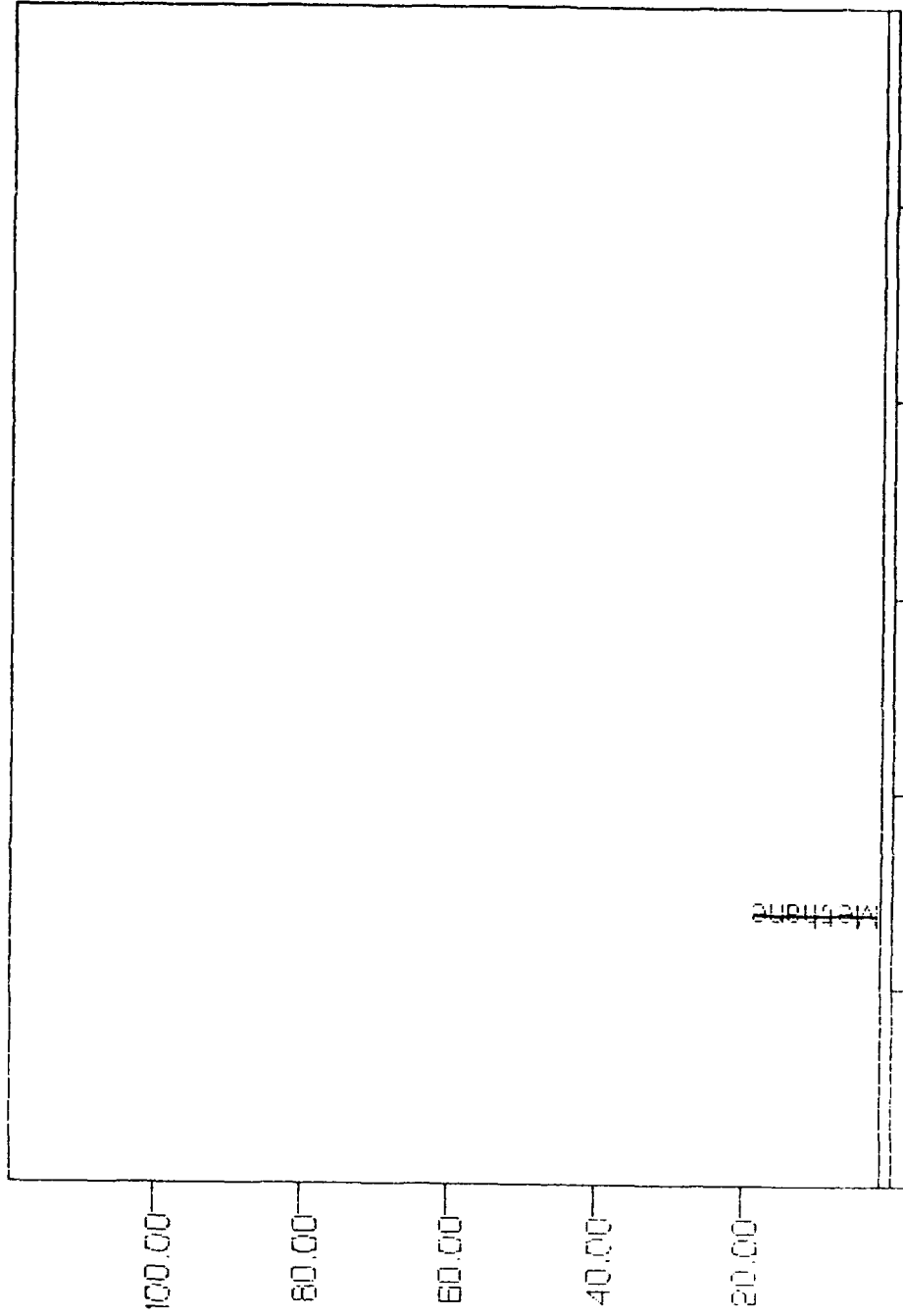


Sample : x94343 @ 75.6 F Client # MW-13 Injected : TUE SEP 27, 1994 3:00



Sample : x94344 @ 78.2 F Client # MW-12 Injected : TUE SEP 27, 1994 3:4

Wm hb/12/01

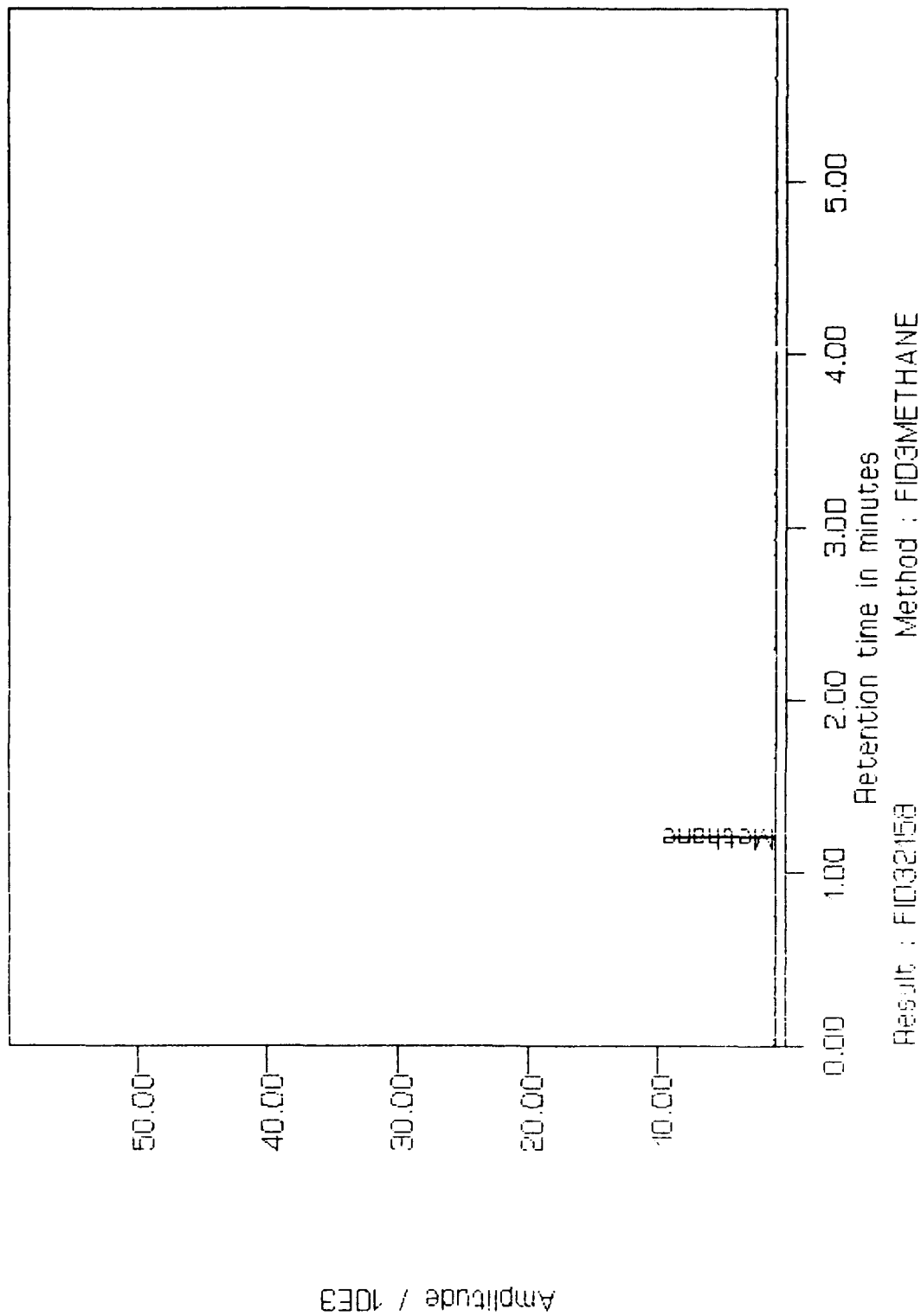


0.00 1.00 2.00 3.00 4.00 5.00

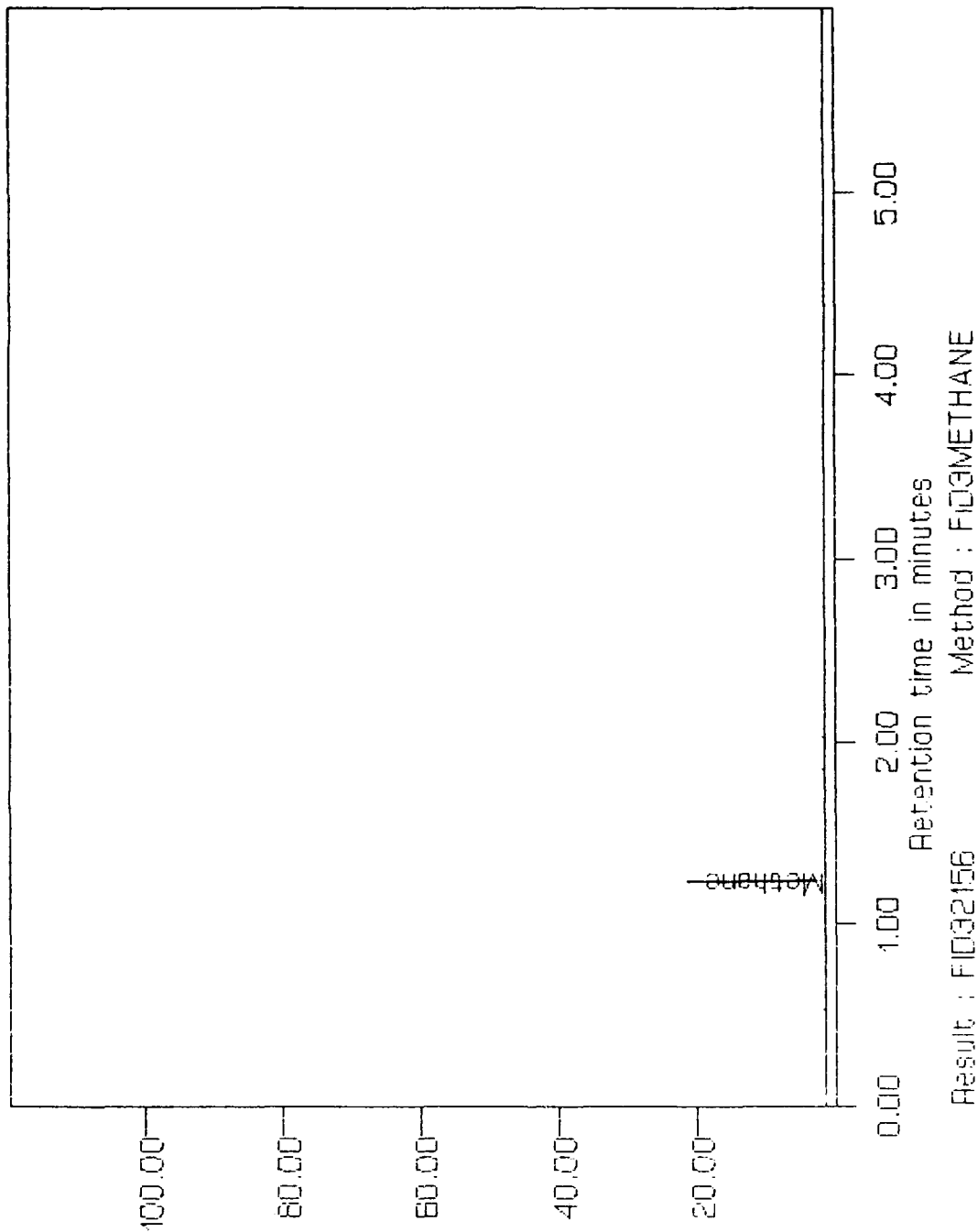
Retention time in minutes

Result : FID02155 Method : FID3METHANE

Sample : x94345 @ 78 F Client # MW-11 Injected : TUE SEP 27, 1994 5:45:4

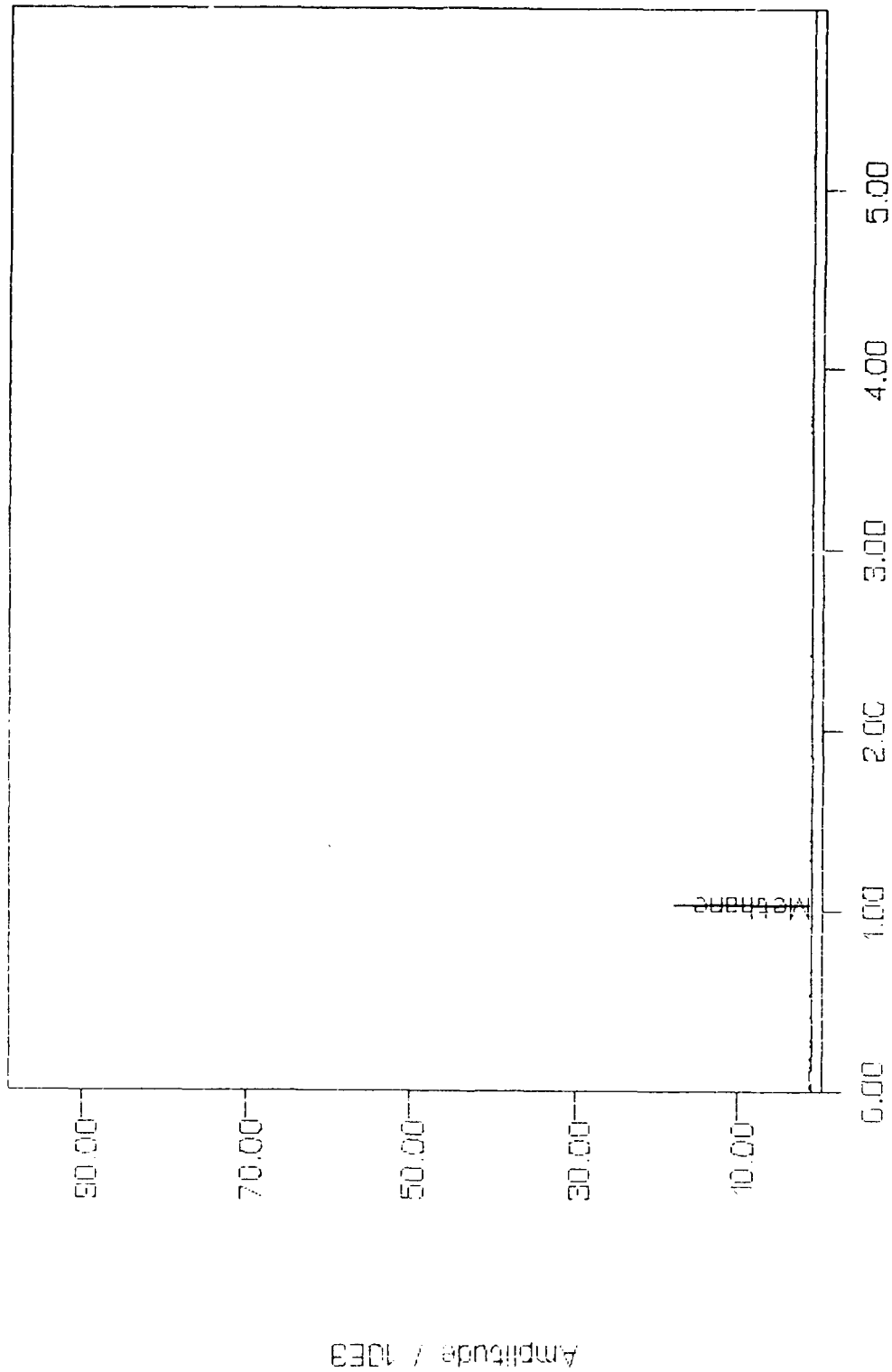


Sample : x94346 @ 78 F Client # MW-25 Injected : TUE SEP 27, 1994 4:11:2



10/31/94 MW

Sample : 894347 @ 78.8 ° Client # MW-LINK Injected : TUE SEP 27, 1994 4



Result : FID32157 Method : FID3METHANE

hb/13/01

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Anions

Date Sampled : 9/13/94	Client Project ID. : Madison ANG
Date Received : 9/14/94	Lab Project No. : 94-3495
Date Prepared : 9/15/94	Method : EPA 300.0
Date Analyzed : 9/15/94	Matrix : Water

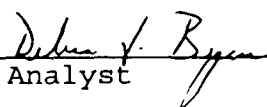
Evergreen Sample #	Client Sample ID	Nitrite as N (mg/L)
X94342	MW-16	<0.076
X94343	MW-13	<0.076
X94344	MW-12	<0.076
X94345	MW-11	<0.076
X94346	MW-25	<0.076
X94347	MW-UNK	<0.076
X94347 Dup	MW-UNK Dup	<0.076
Method Blank 9/15/94		<0.076

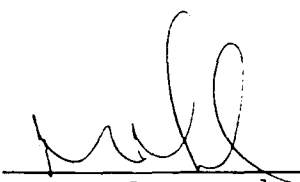
Quality Assurance *

		Spike Amount (mg/L)	Sample Result (mg/L)	Spike Result (mg/L)	% Recovery
X94342	MW-16	10.0	<0.25	9.44	94.4
Matrix Spike					
X94342	MW-16	10.0	<0.25	9.06	90.6
Matrix Spike					
Dup					
MS/MSD	RPD				4.11
X94347/X94347 Dup	RPD				NC

* = Quality assurance results reported as nitrite (NO₂).

NC = Not calculated because sample and/or duplicate result
below detection limit.


Analyst


Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Anions

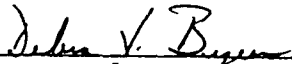
Date Sampled : 9/13/94	Client Project ID. : Madison ANG
Date Received : 9/14/94	Lab Project No. : 94-3495
Date Prepared : 9/15/94	Method : EPA 300.0
Date Analyzed : 9/15/94	Matrix : Water

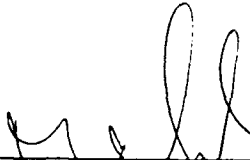
Evergreen Sample #	Client Sample ID	Nitrate as N (mg/L)
X94342	MW-16	<0.056
X94343	MW-13	3.43
X94344	MW-12	4.54
X94345	MW-11	1.81
X94346	MW-25	1.88
X94347	MW-UNK	0.449
X94347 Dup	MW-UNK Dup	0.456
Method Blank 9/15/94		<0.056

Quality Assurance *

		Spike Amount (mg/L)	Sample Result (mg/L)	Spike Result (mg/L)	% Recovery
X94342	MW-16	10.0	<0.25	9.30	93.0
Matrix Spike					
X94342	MW-16	10.0	<0.25	9.04	90.4
Matrix Spike					
Dup					
MS/MSD	RPD				2.84
X94347/X94347 Dup	RPD				1.50

* = Quality assurance results reported as nitrate (NO₃).


Analyst


Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303)425-6021

Anions

Date Sampled : 9/13/94
Date Received : 9/14/94
Date Prepared : 9/15/94
Date Analyzed : 9/15/94

Client Project ID. : Madison ANG
Lab Project No. : 94-3495
Method : EPA 300.0
Matrix : Water

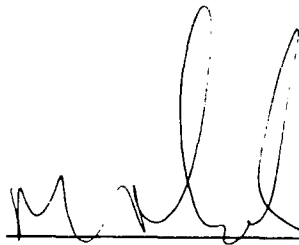
<u>Evergreen</u> <u>Sample #</u>	<u>Client</u> <u>Sample ID</u>	<u>Sulfate (mg/L)</u>
X94342	MW-16	1.54
X94343	MW-13	9.11
X94344	MW-12	17.7
X94345	MW-11	33.1
X94346	MW-25	32.2
X94347	MW-UNK	15.3
X94347 Dup	MW-UNK Dup	15.2
Method Blank 9/15/94		<0.250

Quality Assurance

		<u>Spike</u> <u>Amount</u> <u>(mg/L)</u>	<u>Sample</u> <u>Result</u> <u>(mg/L)</u>	<u>Spike</u> <u>Result</u> <u>(mg/L)</u>	<u>%</u> <u>Recovery</u>
X94342	MW-16	10.0	1.54	10.5	90.0
Matrix Spike					
X94342	MW-16	10.0	1.54	10.2	86.3
Matrix Spike					
Dup					
MS/MSD	RPD				4.20
X94347/X94347 Dup	RPD				0.65



Analyst



Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

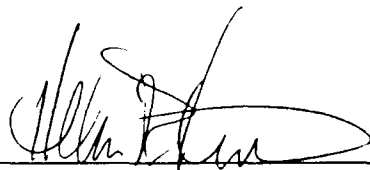
Anions

Date Sampled : 9/13/94 Client Project ID. : Madison ANG
Date Received : 9/14/94 Lab Project No. : 94-3495
Date Prepared : 9/15/94 Method : EPA 300.0
Date Analyzed : 9/15/94 Matrix : Water

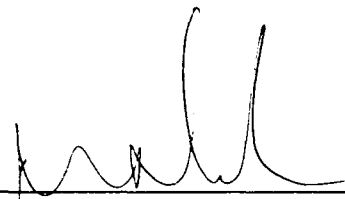
Evergreen Sample #	Client Sample ID	Chloride (mg/L)
X94342	MW-16	34.8
X94343	MW-13	3.43
X94344	MW-12	12.6
X94345	MW-11	3.97
X94346	MW-25	3.42
X94347	MW-UNK	5.13
X94347 Dup	MW-UNK Dup	5.18
Method Blank 9/15/94		<0.250

Quality Assurance

		Spike Amount (mg/L)	Sample Result (mg/L)	Spike Result (mg/L)	% Recovery
X94342	MW-16	10.0	34.8	45.0	101.8
Matrix Spike					
X94342	MW-16	10.0	34.8	45.3	104.3
Matrix Spike					
Dup					
MS/MSD	RPD				2.43
X94347/X94347 Dup	RPD				0.97



Analyst



Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Miscellaneous Analyses

Date Sampled : 9/13/94	Client Project ID. : Madison ANG
Date Received : 9/14/94	Lab Project No. : 94-3495
Date Prepared : 9/16/94	Matrix : 5.00 mgCaCO ₃ /L
Date Analyzed : 9/16/94	Method : EPA 310.1

<u>Evergreen</u> <u>Sample #</u>	<u>Client</u> <u>Sample ID</u>	<u>Matrix</u>	<u>Total Alkalinity</u> <u>(mgCaCO₃/L)</u>
X94342	MW-16	Water	454
X94342 Dup	MW-16 Dup	Water	454
X94343	MW-13	Water	333
X94344	MW-12	Water	270
X94345	MW-11	Water	292
X94346	MW-25	Water	294
X94347	MW-Unk	Water	347
Method Blank (9-16-94)			<5.00

Quality Assurance

	<u>True Value</u> <u>(mgCaCO₃/L)</u>	<u>Result</u> <u>(mgCaCO₃/L)</u>	<u>%</u> <u>Recovery</u>
Spex Reference Lot WP1290 Minerals	24.2	21.7	89.7
X94342/X94342 Dup RPD			0.0

Debra J. Byers
Analyst

[Signature]
Approved

HUFFMAN**LABORATORIES, INC.**

Quality Analytical Services Since 1936

4630 Indiana Street • Golden, CO 80403

NON-CLP ANALYSIS RESULTS

Date: 10/26/94 rev01
Lab Name: Huffman Labs Client: Evergreen Analytical
Contact: Sue Zeller Contact: Mark Mensik
Sample Matrix: soils Huffman Lab #: 271294

Client Smp#	Lab ID #	Element/Compound	Dilution Factor	Results	Units	Prep Date	Analysis Date	Sample Size (g)	Method #	Instrument ID
ELS-MW26-24	27129401	TC	NA	1.43	%	NA	09/19/94	0.642	Leco CR12	#7
ELS-MW26-24	27129401	TC	NA	1.39	%	NA	09/19/94	1.299	Leco CR12	#7
ELS-MW26-24	27129401	CC	NA	1.01	%	NA	10/05/94	0.108	COU-02	#3
ELS-MW26-24	27129401	CC	NA	1.09	%	NA	10/05/94	0.071	COU-02	#3
ELS-MW26-24	27129401	TOC	NA	0.42	%	NA	NA	NA	by calc	NA
ELS-MW26-24	27129401	TOC	NA	0.30	%	NA	NA	NA	by calc	NA

Samples analyzed and results reported on as as received basis.

Soil samples are not homogeneous.

TC detection limit = 0.05%

CC detection limit = 0.02%

TOC detection limit = 0.05%

Client Smp#	Lab ID #	Element/Compound	Dilution Factor	Results	Units	Prep Date	Analysis Date	Sample Size (ml)	Method #	Instrument ID
MW-UNK	27129402	DOC	NA	5.5	mg/L	NA	10/08/94	10	SM53100	#6
MW-9	27129403	DOC	NA	9.6	mg/L	NA	10/08/94	10	SM53100	#6
MW-9	27129403	DOC	NA	11.1	mg/L	NA	10/08/94	10	SM53100	#6
MW-10	27129404	DOC	NA	8.9	mg/L	NA	10/08/94	10	SM53100	#6
MW-13	27129405	DOC	NA	2.1	mg/L	NA	10/08/94	10	SM53100	#6
MW-16	27129406	DOC	NA	38.0	mg/L	NA	10/08/94	10	SM53100	#6

TOC detection limit = 0.5 mg/L

HUFFMAN

LABORATORIES, INC.

Quality Analytical Services Since 1936

4630 Indiana Street • Golden, CO 80403

NON-CLP ANALYSIS RESULTS

LABORATORY CONTROL STANDARD

Date: 10/26/94 rev01 Client: Evergreen Analytical
Lab Name: Huffman Labs Contact: Mark Mensik
Contact: Sue Zeller Huffman Lab #: 271294

LABORATORY CONTROL STANDARD

Lab ID #	Source	Element/ Compound	True Value	Found Value	% R	Units	Date	Method #	Instrument ID
LCS	BN 4384	TC	3.35	3.44	103	%	09/19/94	Leco CR12	#7
LCS	BN 4056	CC	11.33	11.28	100	%	10/05/94	COU-02	#3
LCS	BN 99	DOC	5	5.8	116	mg/L	10/08/94	SM 5310D	#6

SPIKE RECOVERY

Lab ID #	Source	Element/ Compound	True Value	Found Value	% R	Units	Date	Method #	Instrument ID
SPIKE	BN 3716	TC	13560	13171	97	ug C	09/19/94	Leco CR12	#7
SPIKE DUP	BN 3716	TC	12360	11985	97	ug C	09/19/94	Leco CR12	#7
SPIKE	BN 3716	CC	1402	1443	103	ug C	10/05/94	COU-02	#3
SPIKE DUP	BN 3716	CC	1128	1194	106	ug C	10/05/94	COU-02	#3
SPIKE	PD 8/9/94	DOC	100	138	138	mg/L	10/08/94	SM 5310D	#6
SPIKE DUP	PD 8/9/94	DOC	100	135	135	mg/L	10/08/94	SM 5310D	#6

Spike recoveries high for TOC (water). These samples these levels not generally run by this method.

Spike on other samples for same project run that day had recoveries as shown below.

SPIKE	PD 8/9/94	DOC	25	24	94	mg/L	10/08/94	SM 5310D	#6
SPIKE DUP	PD 8/9/94	DOC	25	28	110	mg/L	10/08/94	SM 5310D	#6

HUFFMAN

LABORATORIES, INC.

Quality Analytical Services Since 1936

4630 Indiana Street • Golden, CO 80403

NON-CLP QA/QC ANALYSIS RESULTS

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Date: 10/26/94 rev01 Client: Evergreen Analytical
Lab Name: Huffman Labs Contact: Mark Mensik
Contact: Sue Zeller Huffman Lab #: 271294

INITIAL CALIBRATION

Lab ID #	Source	Element/ Compound	True Value	Found Value	% R	Units	Date	Method #	Instrument ID
ICS	BN 3716	TC	12.00	11.87	99	%	09/19/94	Leco CR12	#7
ICS	BN 3716	CC	12.00	12.02	100	%	10/05/94	COU-02	#3
ICS	BN 461	DOC	10	10.1	101	mg/L	10/08/94	SM 5310D	#6

Slope = NA

Intercept = NA

95% Correlation Coefficient = NA

Single point calibrations for this test.

CONTINUING CALIBRATION VERIFICATION

Lab ID #	Source	Element/ Compound	True Value	Found Value	% R	Units	Date	Method #	Instrument ID
CCS	BN 3716	TC	12.00	11.91	99	%	09/19/94	Leco CR12	#7
CCS	BN 3716	TC	12.00	11.80	98	%	09/19/94	Leco CR12	#7
CCS	BN 3716	CC	12.00	12.03	100	%	10/05/94	COU-02	#3
CCS	BN 461	DOC	10	10.3	103	mg/L	10/08/94	SM 5310D	#6
CCS	BN 461	DOC	10	10.3	103	mg/L	10/08/94	SM 5310D	#6

METHOD AMPOULE

DETECTION LIMIT 50 µg C/L

COULOMETER # 6

10 mg/L STD. (dil. date) 9-27-94
Benzoic Acid: BN 461

5 mg/L STD. (dil. date) 4-27-94
KHP: BN 99

25 mg/L std. (dil. date) 9-27-94
KHP: BN 99

Sample #	Sample Vol. (ml)	µg C reading	µg C Blank	TOC mg C/L	Notes	QC	% Rec
BL		2.9	3.0				
10 mg/L	10	104.2		10.12	Sample	FCS	101%
5 mg/L	10	61.0		5.80		LCS	116%
2712-02	10	58.2		5.52			
2712-02	10	59.8		5.68			
2712-03	10	98.6		9.56	avg 10.32 10.3	10.3	101%
2712-03	10	113.8		11.08			101% mean
2712-04	10	92.1		8.91			
2712-05	10	93.5		9.05			
2712-05	10	24.9		2.19			
2712-05	10	23.9		2.09			
2712-06	10	388.4		38.04			
2712-06	10	39.20		38.90			
10 mg/L	10	105.9		10.29		LCS	103%
2712-03	10	23.41		23.11	4.263 mg/L spike	Spike recovery	158%
2712-03	10	23.05 (230.5)		22.75	"	Spike recovery	135%
2734-06	10	88.9		8.59			
2734-06	10	91.0		8.70			
2734-06	10	104.1		10.01	9 ml sample +	Spike recovery	93%
2734-06	10	108.0		10.50	1 ml 25 mg/L std.	Spike recovery	109%
10 mg/L	10	105.6		10.26		CCS	103%

ANALYST

Ronnie Christy

DATE

10-8-94

REVIEWED

JK

DATE

10/10/94

PAGE 1 OF 1

NOTE: mg C/L = [µg C (sample)] - [µg C (blank)] ÷ [sample volume (ml)]

µg C/L = (mg C/L) * 1000

100 mg/L STD KHP BN 99 dil 8-9-94

4 mg/L recovery. Good precision. Sample levels high for this method

Evergreen Analytical Sample Log Sheet

Project # 94-3516

Date(s) Sampled: 09/14/94 COC

Date Due: 09/29/94

Received: 09/15/94 1100 Holding Time(s): 9/16-NO₂, NO₃, 9/21-METHANE, TEH,
9/28-BTEX, TVH, ALKALINITY
 Client Project I.D. MADISON ANG Rush STANDARD

Client: Engineering Science, Inc.
 Address: 1700 Broadway Suite 900
Denver, CO 80290
 Contact: Gail Saxton
 Client P.O. 722450.09020
 Phone #831-8100 Fax #831-8208

Shipping Charges N/A
 E.A. Cooler # 361
 Airbill # FEDEX-9581892950
 Custody Seal Intact? Y
 Cooler X Bottles
 COC Present Y
 Sample Tags Present? Y
 Sample Tags Listed? Y
 Sample(s) Sealed? Y

Special Invoicing/Billing

Special Instructions REPORT ALL SAMPLES BY DRY WEIGHT. ANALYZE THE TRIP
BLANKS INCLUDED FOR BTEX/TMB. PLEASE ADD TO COC.

Lab ID #	Client ID#	Analysis	Mtx	Btl	Loc
X94481A/B	MW-17	BTEX, TMB	W	40V	2
X94482A/B	MW-10	BTEX, TMB	W	40V	2
X94483A/B	MW-8	BTEX, TMB	W	40V	2
X94484A/B	WANG-CPT17-5	BTEX, TMB	S	2WM	2
X94485A/B	MW-9	BTEX, TMB	W	40V	2
X94486A/B	MW-26	BTEX, TMB	W	40V	2
X94487A/B	MW-22S	BTEX, TMB	W	40V	2
X94488A	TRIP BLANK	BTEX, TMB	W	40V	2
X94481C/D	MW-17	TVH	W	40V	2
X94482C/D	MW-10	TVH	W	40V	2
X94483C/D	MW-8	TVH	W	40V	2
X94484C/D	WANG-CPT17-5	TVH	S	2WM	2
X94485C/D	MW-9	TVH	W	40V	2
X94486C/D	MW-26	TVH	W	40V	2
X94487C/D	MW-22S	TVH	W	40V	2
X94481E-G	MW-17	METHANE	W	40V	2
X94482E-G	MW-10	"	W	40V	2
X94483E-G	MW-8	"	W	40V	2

Sample to be returned

Route GC/MS GC 5 Metals Wet Chem 2 SxPrep 1 Acctg 1
 To

SxRec C QA/QC C Sales C File Orig
 Page 1 of 2 Page(s) Custodian/Date: WJM/PLB
9/15/94

Lab ID #	Client ID#	Analysis	Mtx	Btl	Loc
X94485E-G	MW-9	METHANE	W	40V	2
X94487E-G	MW-22S	"	W	40V	2
X94481J	MW-17	TEH	W	1LA	C5/6
X94482J	MW-10	TEH	W	1LA	"
X94483J	MW-8	TEH	W	1LA	"
X94485J	MW-9	TEH	W	1LA	"
X94486J	MW-26	TEH	W	1LA	"
X94487J	MW-22S	TEH	W	1LA	"
X94481H	MW-17	SO ₄ , NO ₃ , NO ₂ , Chloride	W	125P	"
X94482H	MW-10	"	W	"	"
X94483H	MW-8	"	W	"	"
X94485H	MW-9	"	W	"	"
X94487H	MW-22S	"	W	"	"
X94481I	MW-17	ALKALINITY	W	500P	"
X94482I	MW-10	"	W	"	"
X94483I	MW-8	"	W	"	"
X94485I	MW-9	"	W	"	"
X94487I	MW-22S	"	W	"	"
X94482K	MW-10	DISSOLVED ORGANIC CARBON	W	250P	OUT
X94482K	MW-9	DISSOLVED ORGANIC CARBON	W	250P	OUT

Page 2 of 2 Pages

Project # 94-3516

R=Sample to be returned

CHAIN OF CUSTODY RECORD / ANALYTICAL SERVICES REQUEST

Evergreen Analytical Inc.

COMPANY Engineering-Science COMPANY CONTACT (print) Math Swanson
ADDRESS 1700 Broadway PROJECT I.D. Madison AVE
CITY Denver STATE CO ZIP 80240 P.O.# 72490, 09020
PHONE # 303-831-8100 FAX # 303-831-8208 TURNAROUND REQUIRED* 30 days
FAX RESULTS Y N *expedited turnaround subject to additional fee

Sampler Name: Saskia Hoffer, Math Swanson
(signature) Saskia Hoffer, Math Swanson
(print) Saskia Hoffer, Math Swanson

Evergreen Analytical Cooler No # 361

SAMPLE IDENTIFICATION		DATE SAMPLED	TIME	No. of Containers	MATRIX					ANALYSIS REQUESTED																	Notes
					Water - Drinking/Discharge/Ground (circle)	Soil Solid (circle)	Sludge/Slurry (circle)	Oil/Organic Liquid (circle)	Multiphase (identify phase to be analyzed)	TCLP VOA/BNA/Pest/Herb/ Metals (circle)	VOA 8260/624/524.2 (circle)	BNA 8270/625 (circle)	Pesticides 8080/608 (circle)	Pest/PCBs 8080/608/508 (circle)	Herbicides 8150/515 (circle)	PCB 8080/PCB Screen (circle)	GTEX 8020/602 (circle) MTBE (circle)	TRPH 418.1/Oil & Grease 413.1 (circle)	TVH 8015mod (Gasoline)	TEH 8015mod (Diesel)	Total Metals-DW / NPDES / SW846 (circle & list metals below)	Dissolved Metals - DW / SW846 (circle & list metals below)	SCA 1/3.1/4.1/5.1/6.1/7.1/8.1/9.1/10.1/11.1/12.1/13.1/14.1/15.1/16.1/17.1/18.1/19.1/20.1/21.1/22.1/23.1/24.1/25.1/26.1/27.1/28.1/29.1/30.1/31.1/32.1/33.1/34.1/35.1/36.1/37.1/38.1/39.1/40.1/41.1/42.1/43.1/44.1/45.1/46.1/47.1/48.1/49.1/50.1/51.1/52.1/53.1/54.1/55.1/56.1/57.1/58.1/59.1/60.1/61.1/62.1/63.1/64.1/65.1/66.1/67.1/68.1/69.1/70.1/71.1/72.1/73.1/74.1/75.1/76.1/77.1/78.1/79.1/80.1/81.1/82.1/83.1/84.1/85.1/86.1/87.1/88.1/89.1/90.1/91.1/92.1/93.1/94.1/95.1/96.1/97.1/98.1/99.1/100.1/101.1/102.1/103.1/104.1/105.1/106.1/107.1/108.1/109.1/110.1/111.1/112.1/113.1/114.1/115.1/116.1/117.1/118.1/119.1/120.1/121.1/122.1/123.1/124.1/125.1/126.1/127.1/128.1/129.1/130.1/131.1/132.1/133.1/134.1/135.1/136.1/137.1/138.1/139.1/140.1/141.1/142.1/143.1/144.1/145.1/146.1/147.1/148.1/149.1/150.1/151.1/152.1/153.1/154.1/155.1/156.1/157.1/158.1/159.1/160.1/161.1/162.1/163.1/164.1/165.1/166.1/167.1/168.1/169.1/170.1/171.1/172.1/173.1/174.1/175.1/176.1/177.1/178.1/179.1/180.1/181.1/182.1/183.1/184.1/185.1/186.1/187.1/188.1/189.1/190.1/191.1/192.1/193.1/194.1/195.1/196.1/197.1/198.1/199.1/200.1/201.1/202.1/203.1/204.1/205.1/206.1/207.1/208.1/209.1/210.1/211.1/212.1/213.1/214.1/215.1/216.1/217.1/218.1/219.1/220.1/221.1/222.1/223.1/224.1/225.1/226.1/227.1/228.1/229.1/230.1/231.1/232.1/233.1/234.1/235.1/236.1/237.1/238.1/239.1/240.1/241.1/242.1/243.1/244.1/245.1/246.1/247.1/248.1/249.1/250.1/251.1/252.1/253.1/254.1/255.1/256.1/257.1/258.1/259.1/260.1/261.1/262.1/263.1/264.1/265.1/266.1/267.1/268.1/269.1/270.1/271.1/272.1/273.1/274.1/275.1/276.1/277.1/278.1/279.1/280.1/281.1/282.1/283.1/284.1/285.1/286.1/287.1/288.1/289.1/290.1/291.1/292.1/293.1/294.1/295.1/296.1/297.1/298.1/299.1/300.1/301.1/302.1/303.1/304.1/305.1/306.1/307.1/308.1/309.1/310.1/311.1/312.1/313.1/314.1/315.1/316.1/317.1/318.1/319.1/320.1/321.1/322.1/323.1/324.1/325.1/326.1/327.1/328.1/329.1/330.1/331.1/332.1/333.1/334.1/335.1/336.1/337.1/338.1/339.1/340.1/341.1/342.1/343.1/344.1/345.1/346.1/347.1/348.1/349.1/350.1/351.1/352.1/353.1/354.1/355.1/356.1/357.1/358.1/359.1/360.1/361.1/362.1/363.1/364.1/365.1/366.1/367.1/368.1/369.1/370.1/371.1/372.1/373.1/374.1/375.1/376.1/377.1/378.1/379.1/380.1/381.1/382.1/383.1/384.1/385.1/386.1/387.1/388.1/389.1/390.1/391.1/392.1/393.1/394.1/395.1/396.1/397.1/398.1/399.1/400.1/401.1/402.1/403.1/404.1/405.1/406.1/407.1/408.1/409.1/410.1/411.1/412.1/413.1/414.1/415.1/416.1/417.1/418.1/419.1/420.1/421.1/422.1/423.1/424.1/425.1/426.1/427.1/428.1/429.1/430.1/431.1/432.1/433.1/434.1/435.1/436.1/437.1/438.1/439.1/440.1/441.1/442.1/443.1/444.1/445.1/446.1/447.1/448.1/449.1/450.1/451.1/452.1/453.1/454.1/455.1/456.1/457.1/458.1/459.1/460.1/461.1/462.1/463.1/464.1/465.1/466.1/467.1/468.1/469.1/470.1/471.1/472.1/473.1/474.1/475.1/476.1/477.1/478.1/479.1/480.1/481.1/482.1/483.1/484.1/485.1/486.1/487.1/488.1/489.1/490.1/491.1/492.1/493.1/494.1/495.1/496.1/497.1/498.1/499.1/500.1/501.1/502.1/503.1/504.1/505.1/506.1/507.1/508.1/509.1/510.1/511.1/512.1/513.1/514.1/515.1/516.1/517.1/518.1/519.1/520.1/521.1/522.1/523.1/524.1/525.1/526.1/527.1/528.1/529.1/530.1/531.1/532.1/533.1/534.1/535.1/536.1/537.1/538.1/539.1/540.1/541.1/542.1/543.1/544.1/545.1/546.1/547.1/548.1/549.1/550.1/551.1/552.1/553.1/554.1/555.1/556.1/557.1/558.1/559.1/560.1/561.1/562.1/563.1/564.1/565.1/566.1/567.1/568.1/569.1/570.1/571.1/572.1/573.1/574.1/575.1/576.1/577.1/578.1/579.1/580.1/581.1/582.1/583.1/584.1/585.1/586.1/587.1/588.1/589.1/590.1/591.1/592.1/593.1/594.1/595.1/596.1/597.1/598.1/599.1/600.1/601.1/602.1/603.1/604.1/605.1/606.1/607.1/608.1/609.1/610.1/611.1/612.1/613.1/614.1/615.1/616.1/617.1/618.1/619.1/620.1/621.1/622.1/623.1/624.1/625.1/626.1/627.1/628.1/629.1/630.1/631.1/632.1/633.1/634.1/635.1/636.1/637.1/638.1/639.1/640.1/641.1/642.1/643.1/644.1/645.1/646.1/647.1/648.1/649.1/650.1/651.1/652.1/653.1/654.1/655.1/656.1/657.1/658.1/659.1/660.1/661.1/662.1/663.1/664.1/665.1/666.1/667.1/668.1/669.1/670.1/671.1/672.1/673.1/674.1/675.1/676.1/677.1/678.1/679.1/680.1/681.1/682.1/683.1/684.1/685.1/686.1/687.1/688.1/689.1/690.1/691.1/692.1/693.1/694.1/695.1/696.1/697.1/698.1/699.1/700.1/701.1/702.1/703.1/704.1/705.1/706.1/707.1/708.1/709.1/710.1/711.1/712.1/713.1/714.1/715.1/716.1/717.1/718.1/719.1/720.1/721.1/722.1/723.1/724.1/725.1/726.1/727.1/728.1/729.1/730.1/731.1/732.1/733.1/734.1/735.1/736.1/737.1/738.1/739.1/740.1/741.1/742.1/743.1/744.1/745.1/746.1/747.1/748.1/749.1/750.1/751.1/752.1/753.1/754.1/755.1/756.1/757.1/758.1/759.1/760.1/761.1/762.1/763.1/764.1/765.1/766.1/767.1/768.1/769.1/770.1/771.1/772.1/773.1/774.1/775.1/776.1/777.1/778.1/779.1/780.1/781.1/782.1/783.1/784.1/785.1/786.1/787.1/788.1/789.1/790.1/791.1/792.1/793.1/794.1/795.1/796.1/797.1/798.1/799.1/800.1/801.1/802.1/803.1/804.1/805.1/806.1/807.1/808.1/809.1/810.1/811.1/812.1/813.1/814.1/815.1/816.1/817.1/818.1/819.1/820.1/821.1/822.1/823.1/824.1/825.1/826.1/827.1/828.1/829.1/830.1/831.1/832.1/833.1/834.1/835.1/836.1/837.1/838.1/839.1/840.1/841.1/842.1/843.1/844.1/845.1/846.1/847.1/848.1/849.1/850.1/851.1/852.1/853.1/854.1/855.1/856.1/857.1/858.1/859.1/860.1/861.1/862.1/863.1/864.1/865.1/866.1/867.1/868.1/869.1/870.1/871.1/872.1/873.1/874.1/875.1/876.1/877.1/878.1/879.1/880.1/881.1/882.1/883.1/884.1/885.1/886.1/887.1/888.1/889.1/890.1/891.1/892.1/893.1/894.1/895.1/896.1/897.1/898.1/899.1/900.1/901.1/902.1/903.1/904.1/905.1/906.1/907.1/908.1/909.1/910.1/911.1/912.1/913.1/914.1/915.1/916.1/917.1/918.1/919.1/920.1/921.1/922.1/923.1/924.1/925.1/926.1/927.1/928.1/929.1/930.1/931.1/932.1/933.1/934.1/935.1/936.1/937.1/938.1/939.1/940.1/941.1/942.1/943.1/944.1/945.1/946.1/947.1/948.1/949.1/950.1/951.1/952.1/953.1/954.1/955.1/956.1/957.1/958.1/959.1/960.1/961.1/962.1/963.1/964.1/965.1/966.1/967.1/968.1/969.1/970.1/971.1/972.1/973.1/974.1/975.1/976.1/977.1/978.1/979.1/980.1/981.1/982.1/983.1/984.1/985.1/986.1/987.1/988.1/989.1/990.1/991.1/992.1/993.1/994.1/995.1/996.1/997.1/998.1/999.1/1000.1/1001.1/1002.1/1003.1/1004.1/1005.1/1006.1/1007.1/1008.1/1009.1/1010.1/1011.1/1012.1/1013.1/1014.1/1015.1/1016.1/1017.1/1018.1/1019.1/1020.1/1021.1/1022.1/1023.1/1024.1/1025.1/1026.1/1027.1/1028.1/1029.1/1030.1/1031.1/1032.1/1033.1/1034.1/1035.1/1036.1/1037.1/1038.1/1039.1/1040.1/1041.1/1042.1/1043.1/1044.1/1045.1/1046.1/1047.1/1048.1/1049.1/1050.1/1051.1/1052.1/1053.1/1054.1/1055.1/1056.1/1057.1/1058.1/1059.1/1060.1/1061.1/1062.1/1063.1/1064.1/1065.1/1066.1/1067.1/1068.1/1069.1/1070.1/1071.1/1072.1/1073.1/1074.1/1075.1/1076.1/1077.1/1078.1/1079.1/1080.1/1081.1/1082.1/1083.1/1084.1/1085.1/1086.1/1087.1/1088.1/1089.1/1090.1/1091.1/1092.1/1093.1/1094.1/1095.1/1096.1/1097.1/1098.1/1099.1/1100.1/1101.1/1102.1/1103.1/1104.1/1105.1/1106.1/1107.1/1108.1/1109.1/1110.1/1111.1/1112.1/1113.1/1114.1/1115.1/1116.1/1117.1/1118.1/1119.1/1120.1/1121.1/1122.1/1123.1/1124.1/1125.1/1126.1/1127.1/1128.1/1129.1/1130.1/1131.1/1132.1/1133.1/1134.1/1135.1/1136.1/1137.1/1138.1/1139.1/1140.1/1141.1/1142.1/1143.1/1144.1/1145.1/1146.1/1147.1/1148.1/1149.1/1150.1/1151.1/1152.1/1153.1/1154.1/1155.1/1156.1/1157.1/1158.1/1159.1/1160.1/1161.1/1162.1/1163.1/1164.1/1165.1/1166.1/1167.1/1168.1/1169.1/1170.1/1171.1/1172.1/1173.1/1174.1/1175.1/1176.1/1177.1/1178.1/1179.1/1180.1/1181.1/1182.1/1183.1/1184.1/1185.1/1186.1/1187.1/1188.1/1189.1/1190.1/1191.1/1192.1/1193.1/1194.1/1195.1/1196.1/1197.1/1198.1/1199.1/1200.1/1201.1/1202.1/1203.1/1204.1/1205.1/1206.1/1207.1/1208.1/1209.1/1210.1/1211.1/1212.1/1213.1/1214.1/1215.1/1216.1/1217.1/1218.1/1219.1/1220.1/1221.1/1222.1/1223.1/1224.1/1225.1/1226.1/1227.1/1228.1/1229.1/1230.1/1231.1/1232.1/1233.1/1234.1/1235.1/1236.1/1237.1/1238.1/1239.1/1240.1/1241.1/1242.1/1243.1/1244.1/1245.1/1246.1/1247.1/1248.1/1249.1/1250.1/1251.1/1252.1/1253.1/1254.1/1255.1/1256.1/1257.1/1258.1/1259.1/1260.1/1261.1/1262.1/1263.1/1264.1/1265.1/1266.1/1267.1/1268.1/1269.1/1270.1/1271.1/1272.1/1273.1/1274.1/1275.1/1276.1/1277.1/1278.1/1279.1/1280.1/1281.1/1282.1/1283.1/1284.1/1285.1/1286.1/1287.1/1288.1/1289.1/1290.1/1291.1/1292.1/1293.1/1294.1/1295.1/1296.1/1297.1/1298.1/1299.1/1300.1/1301.1/1302.1/1303.1/1304.1/1305.1/1306.1/1307.1/1308.1/1309.1/1310.1/1311.1/1312.1/1313.1/1314.1/1315.1/1316.1/1317.1/1318.1/1319.1/1320.1/1321.1/1322.1/1323.1/1324.1/1325.1/1326.1/1327.1/1328.1/1329.1/1330.1/1331.1/1332.1/1333.1/1334.1/1335.1/1336.1/1337.1/1338.1/1339.1/1340.1/1341.1/1342.1/1343.1/1344.1/1345.1/1346.1/1347.1/1348.1/1349.1/1350.1/1351.1/1352.1/1353.1/1354.1/1355.1/1356.1/1357.1/1358.1/1359.1/1360.1/1361.1/1362.1/1363.1/1364.1/1365.1/1366.1/1367.1/1368.1/1369.1/1370.1/1371.1/1372.1/1373.1/1374.1/1375.1/1376.1/1377.1/1378.1/1379.1/1380.1/1381.1/1382.1/1383.1/1384.1/1385.1/1386.1/1387.1/1388.1/1389.1/1390.1/1391.1/1392.1/1393.1/1394.1/1395.1/1396.1/1397.1/1398.1/1399.1/1400.1/1401.1/1402.1/1403.1/1404.1/1405.1/1406.1/1407.1/1408.1/1409.1/1410.1/1411.1/1412.1/1413.1/1414.1/1415.1/1416.1/1417.1/1418.1/1419.1/1420.1/1421.1/1422.1/1423.1/1424.1/1425.1/1426.1/1427.1/1428.1/1429.1/1430.1/1431.1/1432.1/1433.1/1434.1/1435.1/1436.1/1437.1/1438.1/1439.1/1440.1/1441.1/1442.1/1443.1/1444.1/1445.1/1446.1/1447.1/1448.1/1449.1/1450.1/1451.1/1452.1/1453.1/1454.1/1455.1/1456.1/1457.1/1458.1/1459.1/1460.1/1461.1/1462.1/1463.1/1464.1/1465.1/1466.1/1467.1/1468.1/1469.1/1470.1/1471.1/1472.1/1473.1/1474.1/1475.1/1476.1/1477.1/1478.1/1479.1/1480.1/1481.1/1482.1/1483.1/1484.1/1485.1/1486.1/1487.1/1488.1/1489.1/1490.1/1491.1/1492.1/1493.1/1494.1/1495.1/1496.1/1497.1/1498.1/1499.1/1500.1/1501.1/1502.1/1503.1/1504.1/1505.1/1506.1/1507.1/1508.1/1509.1/1510.1/1511.1/1512.1/1513.1/1514.1/1515.1/1516.1/1517.1/1518.1/1519.1/1520.1/1521.1/1522.1/1523.1/1524.1/1525.1/1526.1/1527.1/1528.1/1529.1/1530.1/1531.1/1532.1/1533.1/1534.1/1535.1/1536.1/1537.1/1538.1/1539.1/1540.1/1541.1/1542.1/1543.1/1544.1/1545.1/1546.1/1547.1/1548.1/1549.1/1550.1/1551.1/1552.1/1553.1/1554.1/1555.1/1556.1/1557.1/1558.1/1559.1/1560.1/1561.1/1562.1/1563.1/1564.1/1565.1/1566.1/1567.1/1568.1/1569.1/1570.1/1571.1/1572.1/1573.1/1574.1/1575.1/1576.1/1577.1/1578.1/1579.1/1580.1/1581.1/1582.1/1583.1/1584.1/1585.1/1586.1/1587.1/1588.1/1589.1/1590.1/1591.1/1592.1/1593.1/1594.1/1595.1/1596.1/1597.1/1598.1/1599.1/1600.1/1601.1/1602.1/1603.1/1604.1/1605.1/1606.1/1607.1/1608.1/1609.1/1610.1/1611.1/1612.1/1613.1/1614.1/1615.1/1616.1/1617.1/1618.1/1619.1/1620.1/1621.1/1622.1/1623.1/1624.1/1625.1/1626.1/1627.1/1628.1/1629.1/1630.1/1631.1/1632.1/1633.1/1634.1/1635.1/1636.1/1637.1/1638.1/1639.1/1640.1/1641.1/1642.1/1643.1/1644.1/1645.1/1646.1/1647.1/1648.1/1649.1/1650.1/1651.1/1652.1/1653.1/1654.1/1655.1/1656.1/1657.1/1658.1/1659.1/1660.1/1661.1/1662.1/1663.1/1664.1/1665.1/1666.1/1667.1/1668.1/1669.1/1670.1/1671.1/1672.1/1673.1/1674.1/1675.1/1676.1/1677.1/1678.1/1679.1/1680.1/1681.1/1682.1/1683.1/1684.1/1685.1/1686.1/1687.1/1688.1/1689.1/1690.1/1691.1/1692.1/1693.1/1694.1/1695.1/1696.1/1697.1/1698.1/1699.1				

Evergreen Analytical Sample Receipt/Check-in Record

Date & Time Rec'd: 9/15/94 Shipped Via: FedEx 958189295
(Airbill # if applicable)

Client : Engineering Science

Client Project ID(s): _____

EAL Project #(s): 94- EAL Cooler(s): Y N

Cooler# _____

Ice packs Y N Y N Y N Y N Y N

Temperature °C 4 _____

Y N N/A

1. Custody seal(s) present:
Seals on cooler intact
Seals on bottle intact

2. Chain of Custody present:

3. Containers broken or leaking:
(Comment on COC if Y)

4. Containers labeled:

5. COC agrees w/ bottles received:
(Comment on COC if N)

6. COC agrees w/ labels:
(Comment on COC if N)

7. Headspace in VOA vials-waters only
(comment on COC if Y)

8. VOA samples preserved:

9. pH measured on metals, cyanide or phenolics*:
List discrepancies
*Non-EAL provided containers only, water samples only.

10. Metal samples present:
Total _____, Dissolved _____
D or PD to be filtered:
T,TR,D,PD to be Preserved:

11. Short holding times:
Specify parameters nitrate nitrite
48 hrs

12. Multi-phase sample(s) present:

13. COC signed w/ date/time:

Comments: _____

(Additional comments on back)
Custodian Signature/Date: Tim J. H. 9/15/94

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: MW-17	Client Project No.	: Madison Ang
Lab Sample Number	: X94481	Lab Project No.	: 94-3516
Date Sampled	: 9/14/94	Dilution Factor	: 1.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/17/94	Matrix	: Water
Date Analyzed	: 9/17/94	Lab File No.	: BX2091714
		Method Blank No.	: MB091794

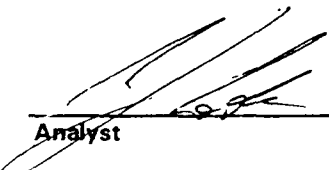
Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	U	0.4
Toluene	108-88-3	U	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	U	0.4
1,3,5-trimethylbenzene	108-67-8	U	0.4
1,2,4-trimethylbenzene	95-63-6	U	0.4
1,2,3-trimethylbenzene	526-73-8	U	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:
a,a,a,-Trifluorotoluene : 103%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value
U = Compound analyzed for, but not detected.
B = Compound found in blank and sample. Compare blank and sample data.
MDL = Method Detection Limit.
NA = Not available.


Analyst


Approved

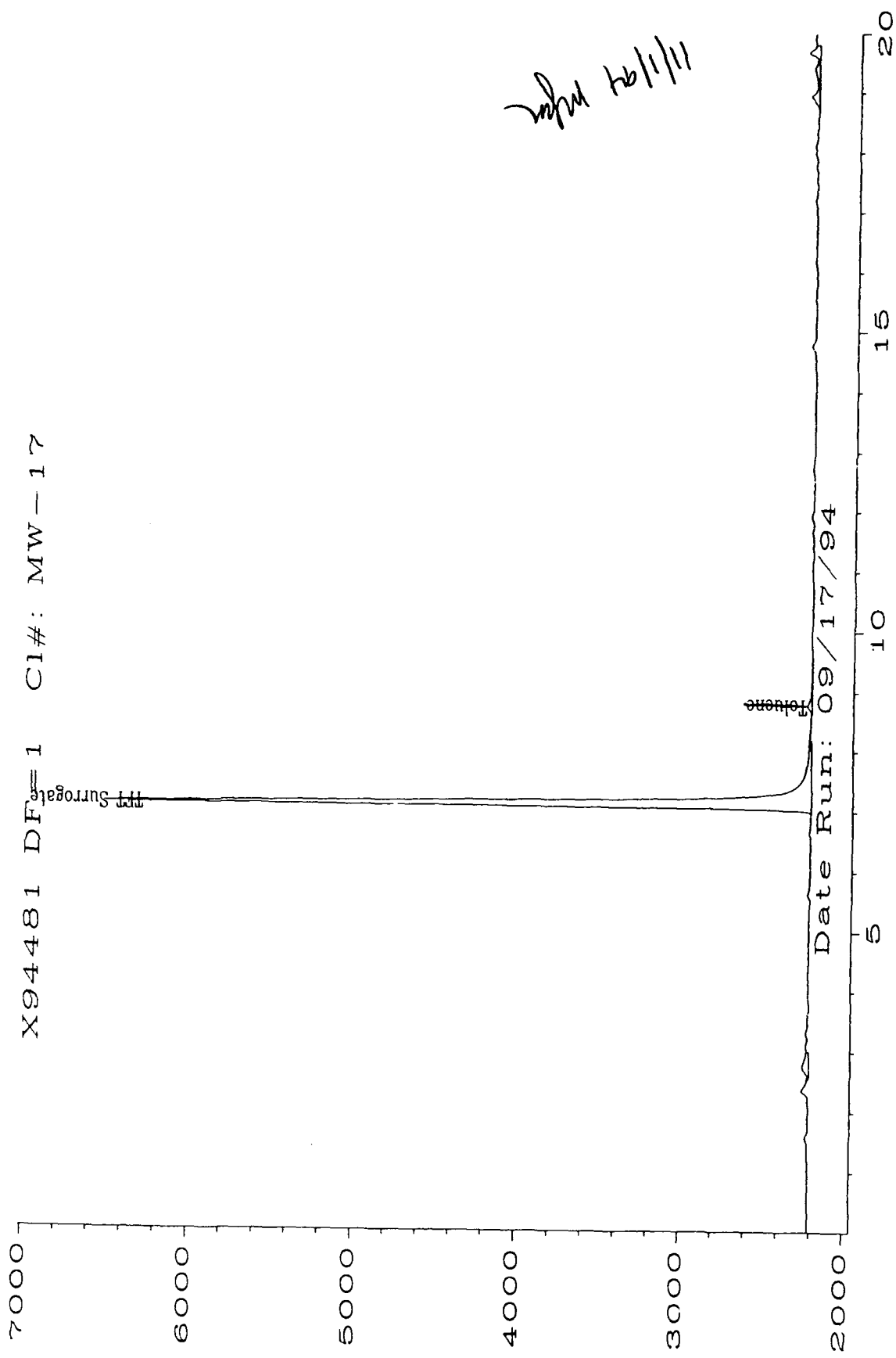


Fig. 2 in C:\HPCHEM\2\DATA\BX20917\014R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: MW-10	Client Project No.	: Madison Ang
Lab Sample Number	: X94482	Lab Project No.	: 94-3516
Date Sampled	: 9/14/94	Dilution Factor	: 1.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/17/94	Matrix	: Water
Date Analyzed	: 9/17/94	Lab File No.	: BX2091715
		Method Blank No.	: MB091794

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	110	0.4
Toluene	108-88-3	4.8	0.4
Ethyl Benzene	100-41-4	78	0.4
Total Xylene (m/p + o)	1330-20-7	*	*
1,3,5-trimethylbenzene	108-67-8	67	0.4
1,2,4-trimethylbenzene	95-63-6	*	*
1,2,3-trimethylbenzene	526-73-8	100	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

* = See BX2091810 for noted values, df = 10, 09/18/94.

Surrogate Recovery:

a,a,a,-Trifluorotoluene	: 113%
QC Reporting Limits	: 77%-116%

QUALIFIERS:

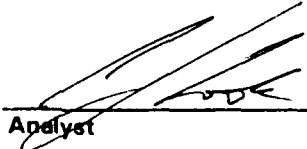
E = Extrapolated value

U = Compound analyzed for, but not detected.

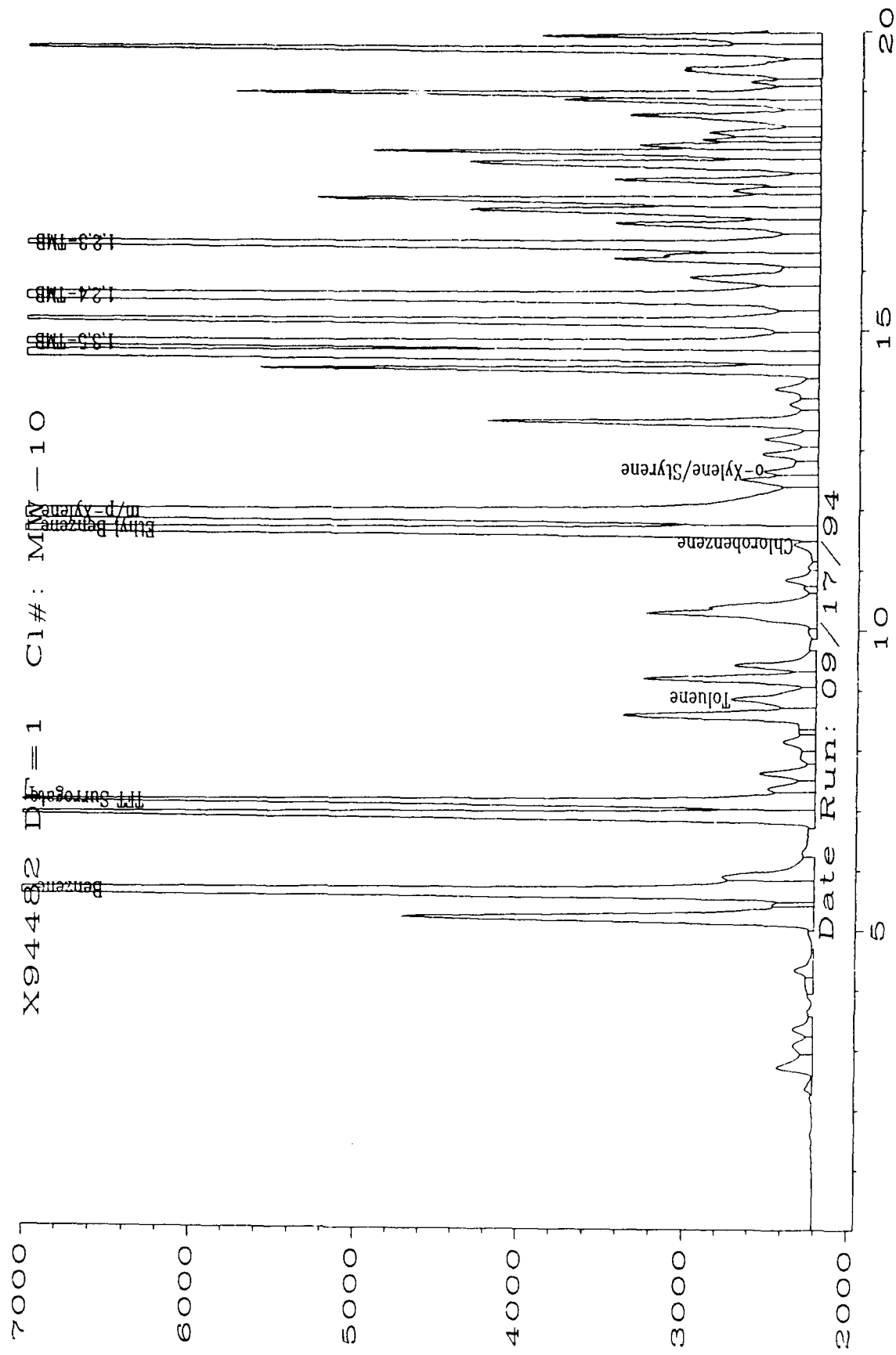
B = Compound found in blank and sample. Compare blank and sample data.

MDL = Method Detection Limit.

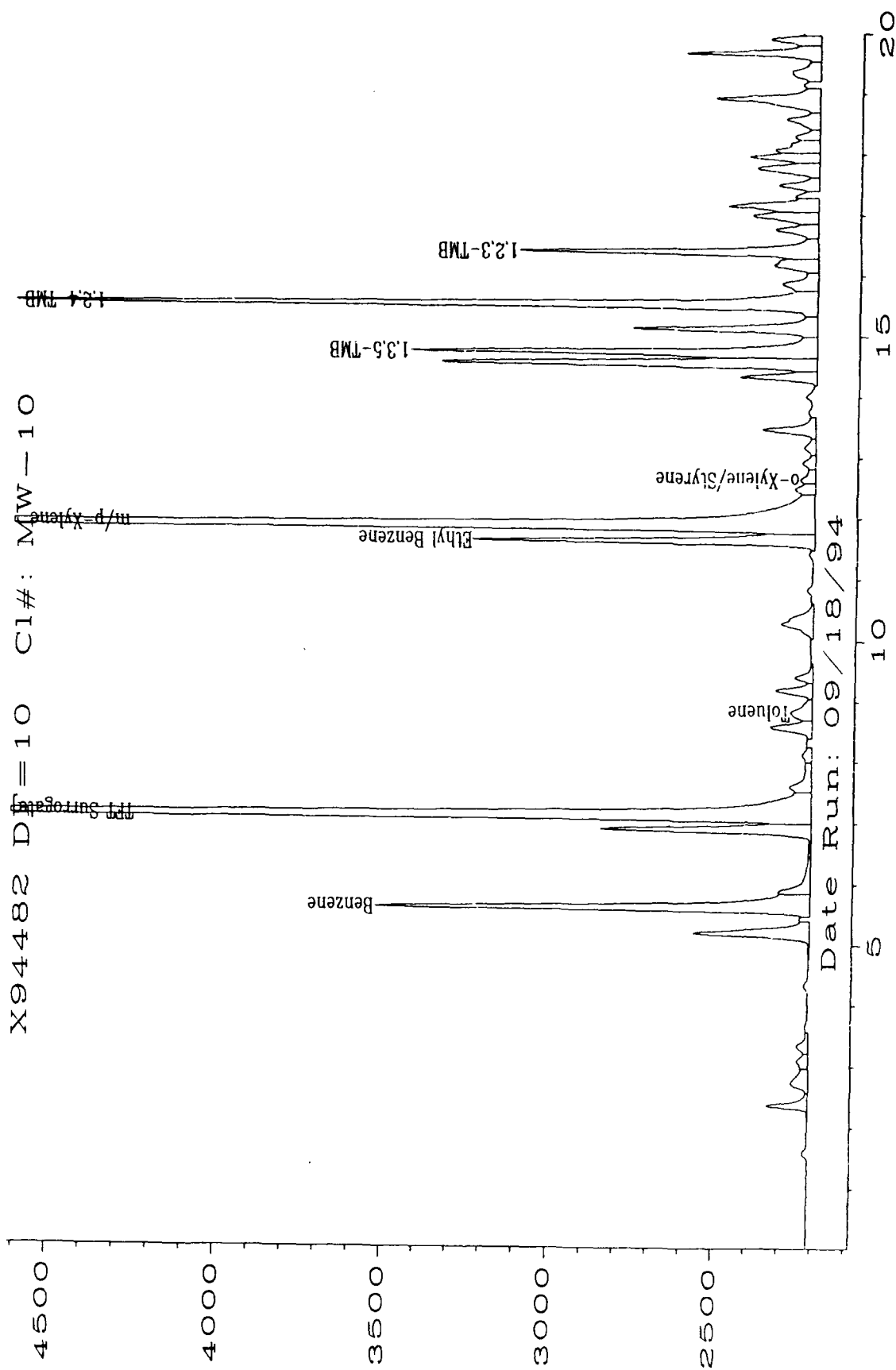
NA = Not available.


Analyst


Approved



Sig. 2 in C:\HPCHEM\2\DATA\BX20917\015R0101.D



Sig. 2 in C:\HPCHEM\2\DATA\BX20918\010R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: MW-8	Client Project No.	: Madison Ang
Lab Sample Number	: X94483	Lab Project No.	: 94-3516
Date Sampled	: 9/14/94	Dilution Factor	: 10.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/17/94	Matrix	: Water
Date Analyzed	: 9/17/94	Lab File No.	: BX2091716
		Method Blank No.	: MB091794

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	*	*
Toluene	108-88-3	15	4
Ethyl Benzene	100-41-4	220	4
Total Xylene (m/p + o)	1330-20-7	1700	4
1,3,5-trimethylbenzene	108-67-8	240	4
1,2,4-trimethylbenzene	95-63-6	540	4
1,2,3-trimethylbenzene	526-73-8	400	4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

* = See BX2091811 for noted values, df = 20, 09/18/94.

Surrogate Recovery:

a,a,a,-Trifluorotoluene	: 89%
QC Reporting Limits	: 77%-116%

QUALIFIERS:

E = Extrapolated value

U = Compound analyzed for, but not detected.

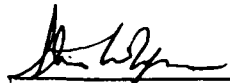
B = Compound found in blank and sample. Compare blank and sample data.

MDL = Method Detection Limit.

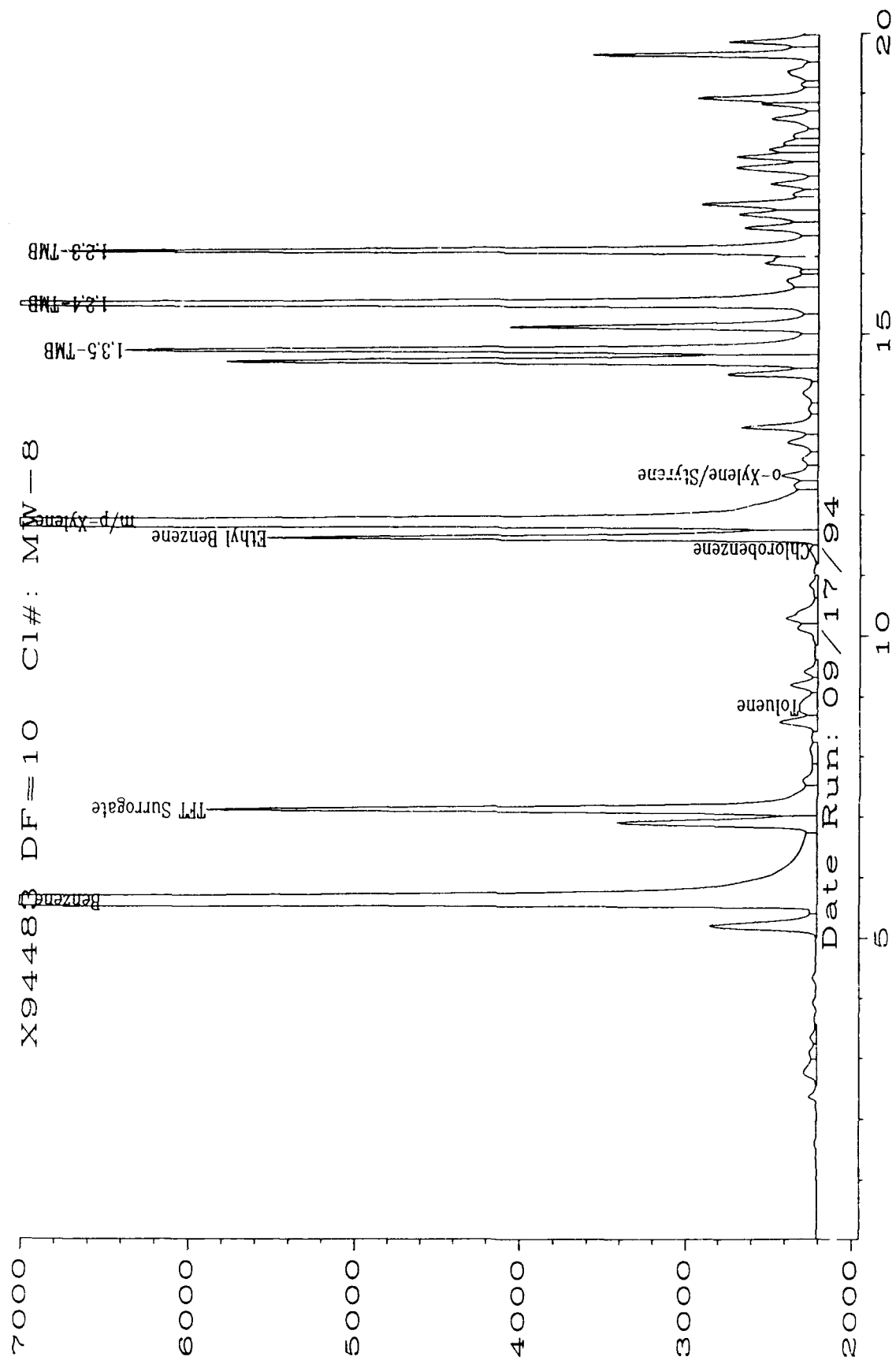
NA = Not available.



Analyst



Approver



Sig. 2 in C:\HPCHEM\2\DATA\BX20917\016R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: MW-8	Client Project No.	: Madison Ang
Lab Sample Number	: X94483	Lab Project No.	: 94-3516
Date Sampled	: 9/14/94	Dilution Factor	: 20.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/18/94	Matrix	: Water
Date Analyzed	: 9/18/94	Lab File No.	: BX2091811
		Method Blank No.	: MB091894

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	4700 E	8
Toluene	108-88-3	*	*
Ethyl Benzene	100-41-4	*	*
Total Xylene (m/p + o)	1330-20-7	*	*
1,3,5-trimethylbenzene	108-67-8	*	*
1,2,4-trimethylbenzene	95-63-6	*	*
1,2,3-trimethylbenzene	526-73-8	*	*

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

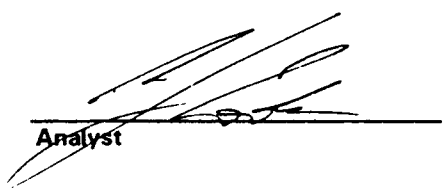
* = See BX2091716 for noted values, df = 10, 09/17/94.

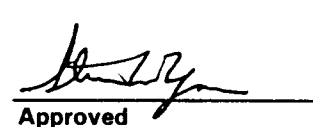
Surrogate Recovery:

a,a,a,-Trifluorotoluene : 112%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value
U = Compound analyzed for, but not detected.
B = Compound found in blank and sample. Compare blank and sample data.
MDL = Method Detection Limit.
NA = Not available.


Analyst


Approved

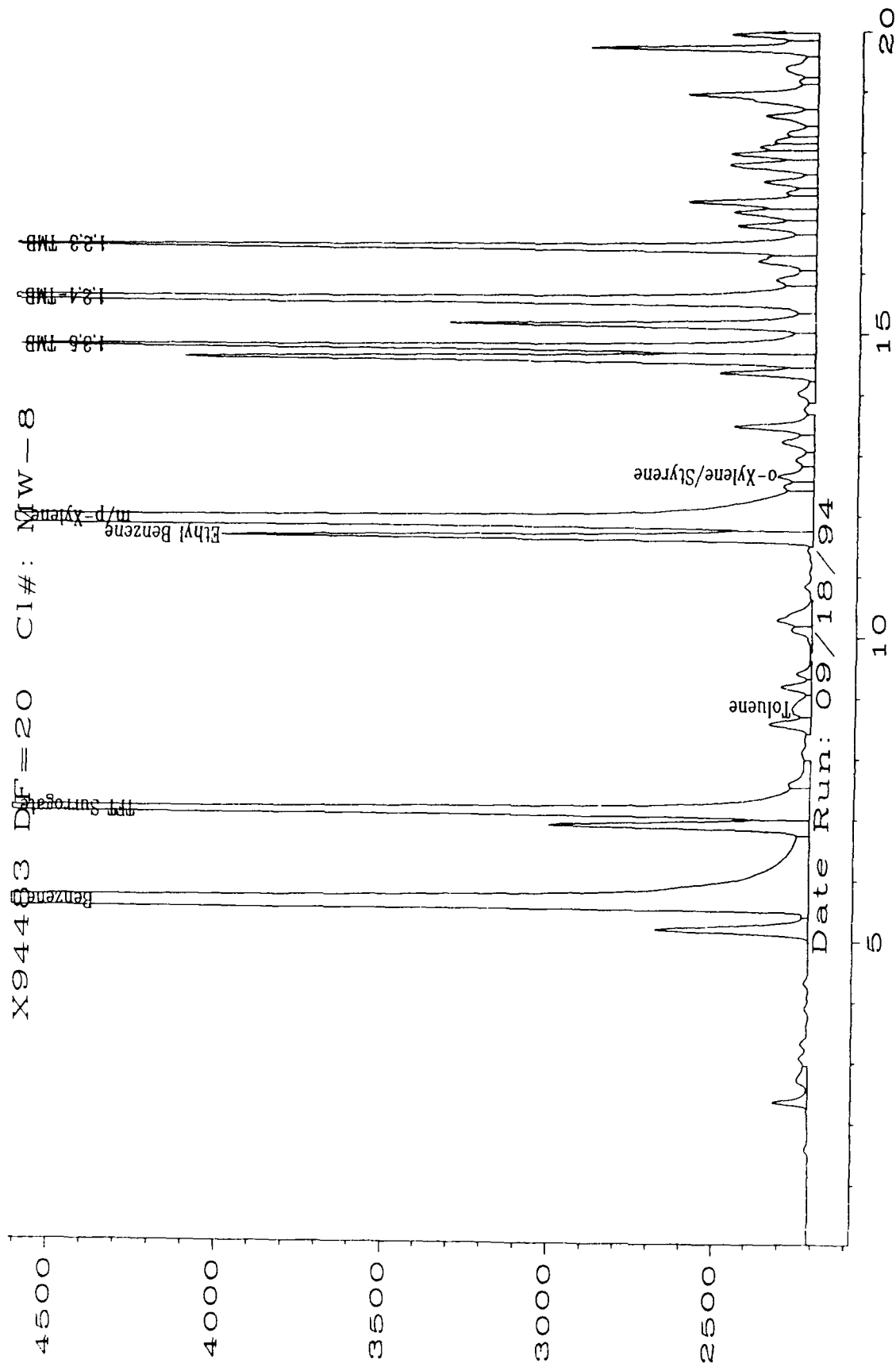


Fig. 2 in C:\HPCHEM\2\DATA\BX20918\011R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: Wang-CPT17-5	Client Project No.	: Madison Ang
Lab Sample Number	: X94484	Lab Project No.	: 94-3516
Date Sampled	: 9/14/94	Dilution Factor	: 5.00
Date Received	: 9/15/94	Method	: 8020
Date Extracted/Prepared	: 9/17/94	Matrix	: Soil
Date Analyzed	: 9/18/94	Lab File No.	: BX2091724
Methanol Extract?	: No	Method Blank No.	: MB091794

Compound Name	Cas Number	Sample Concentration** ug/kg	PQL ug/kg
Benzene	71-43-2	140	22
Toluene	108-88-3	9.4 J	22
Ethyl Benzene	100-41-4	130	22
Total Xylene (m/p + o)	1330-20-7	280	22
1,3,5-trimethylbenzene	108-67-8	100	22
1,2,4-trimethylbenzene	95-63-6	270	22
1,2,3-trimethylbenzene	526-73-8	210	22

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 100%
QC Reporting Limits : 55%-127%

QUALIFIERS:

** = All sample results & PQLs are reported on a dry weight basis.

E = Extrapolated value

U = Compound analyzed for, but not detected.

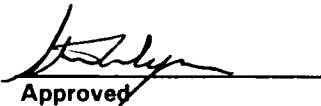
B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.


Analyst


Approved

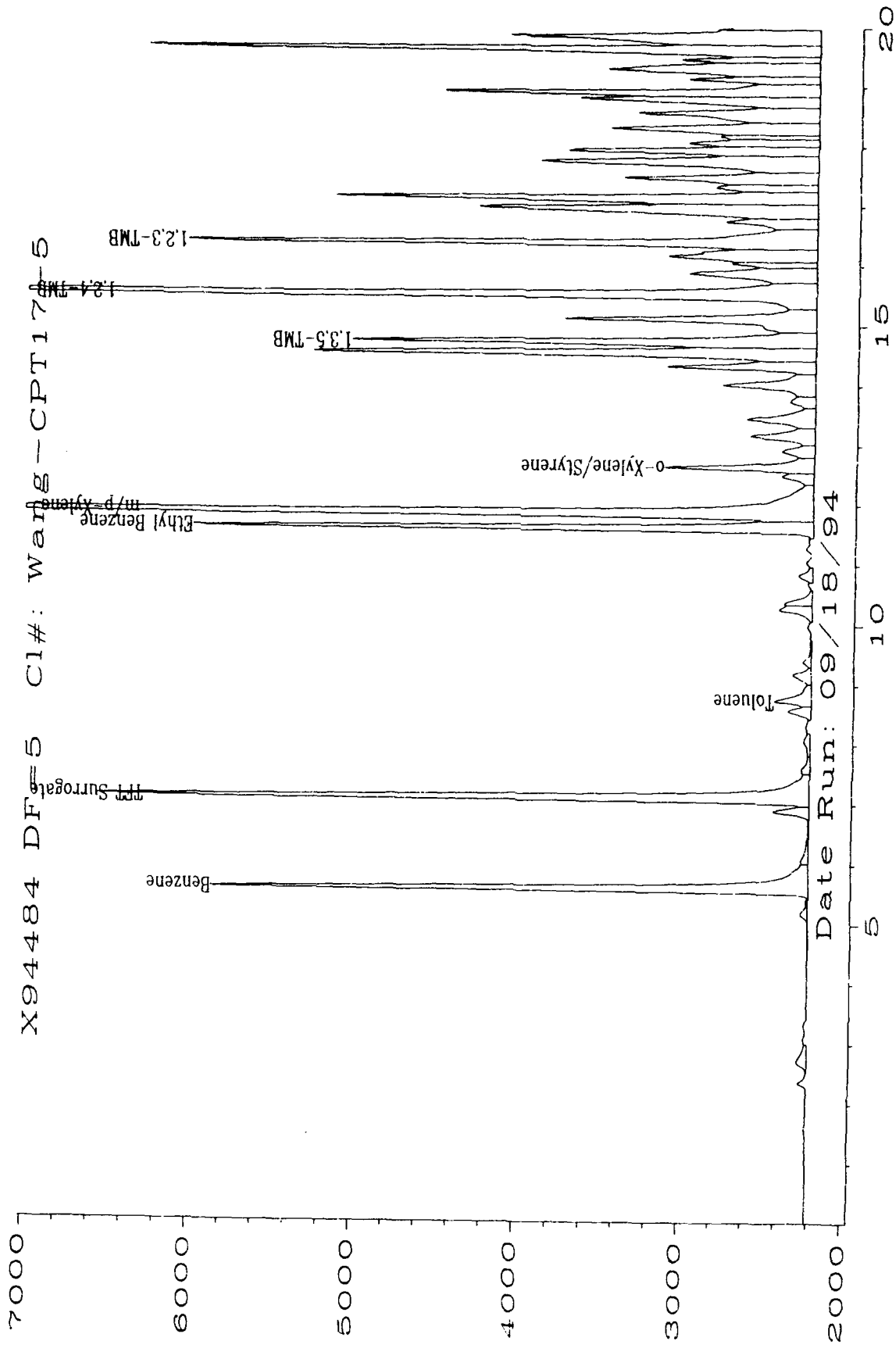


Fig. 2 in C:\HPCHEM\2\DATA\BX20917\024R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: MW-9	Client Project No.	: Madison Ang
Lab Sample Number	: X94485	Lab Project No.	: 94-3516
Date Sampled	: 9/14/94	Dilution Factor	: 1.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/18/94	Matrix	: Water
Date Analyzed	: 9/18/94	Lab File No.	: BX2091809
		Method Blank No.	: MB091894

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	98	0.4
Toluene	108-88-3	1.2	0.4
Ethyl Benzene	100-41-4	0.7	0.4
Total Xylene (m/p + o)	1330-20-7	2.6	0.4
1,3,5-trimethylbenzene	108-67-8	6.4	0.4
1,2,4-trimethylbenzene	95-63-6	14	0.4
1,2,3-trimethylbenzene	526-73-8	1.8	0.4

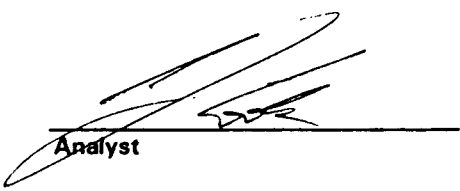
Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:

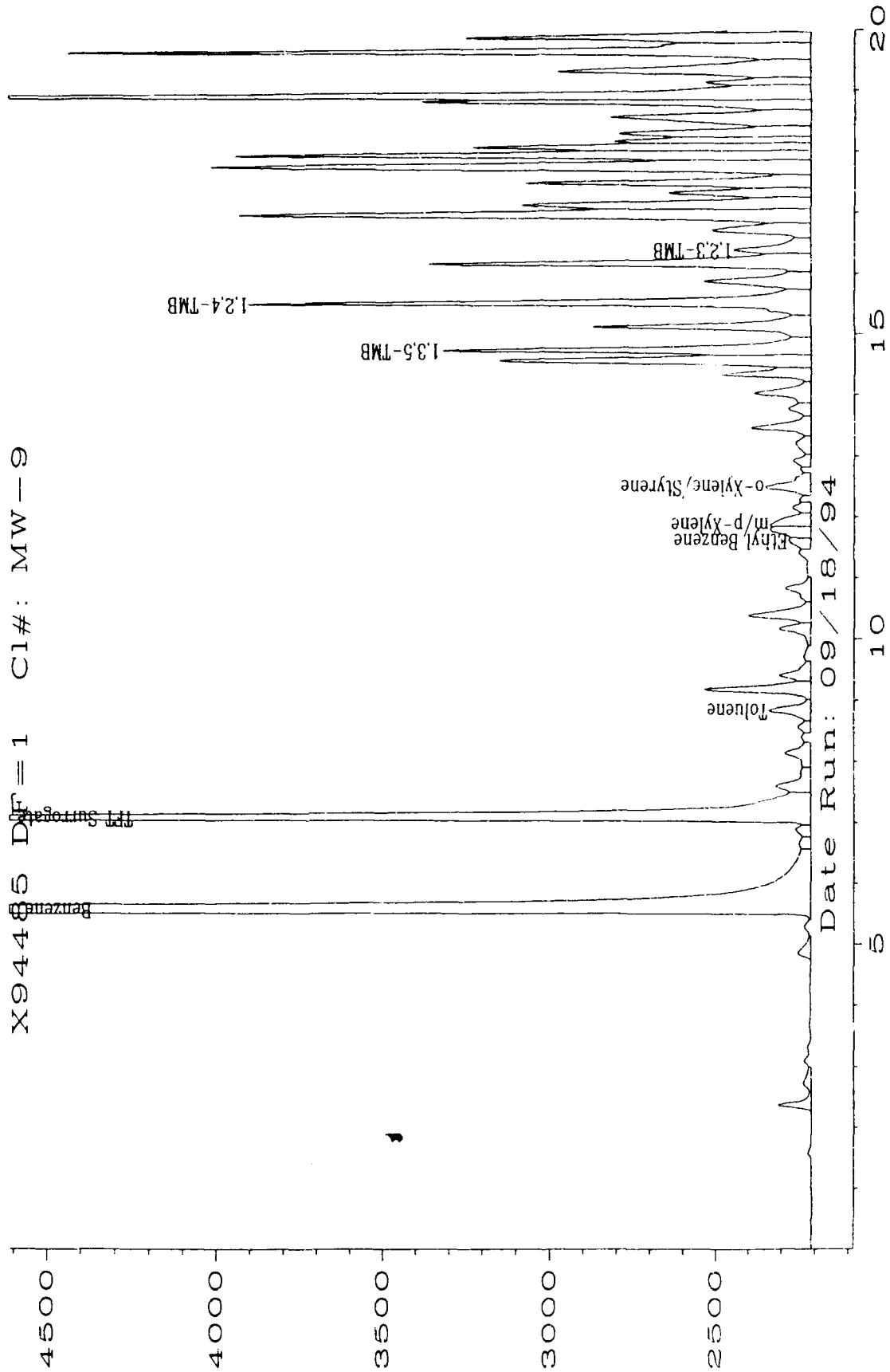
a,a,a,-Trifluorotoluene : 105%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value
U = Compound analyzed for, but not detected.
B = Compound found in blank and sample. Compare blank and sample data.
MDL = Method Detection Limit.
NA = Not available.


Analyst


Approved



Sig. 2 in C:\HPCHEM\2\DATA\BX20918\009R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: MW-26	Client Project No.	: Madison Ang
Lab Sample Number	: X94486	Lab Project No.	: 94-3516
Date Sampled	: 9/14/94	Dilution Factor	: 1.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/17/94	Matrix	: Water
Date Analyzed	: 9/18/94	Lab File No.	: BX2091722
		Method Blank No.	: MB091794

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	89	0.4
Toluene	108-88-3	1.0	0.4
Ethyl Benzene	100-41-4	0.6	0.4
Total Xylene (m/p + o)	1330-20-7	3.0	0.4
1,3,5-trimethylbenzene	108-67-8	6.7	0.4
1,2,4-trimethylbenzene	95-63-6	15	0.4
1,2,3-trimethylbenzene	526-73-8	1.7	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 101%
QC Reporting Limits : 77%-116%

QUALIFIERS:

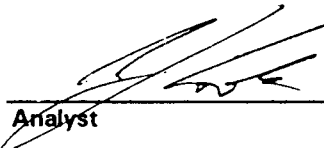
E = Extrapolated value

U = Compound analyzed for, but not detected.

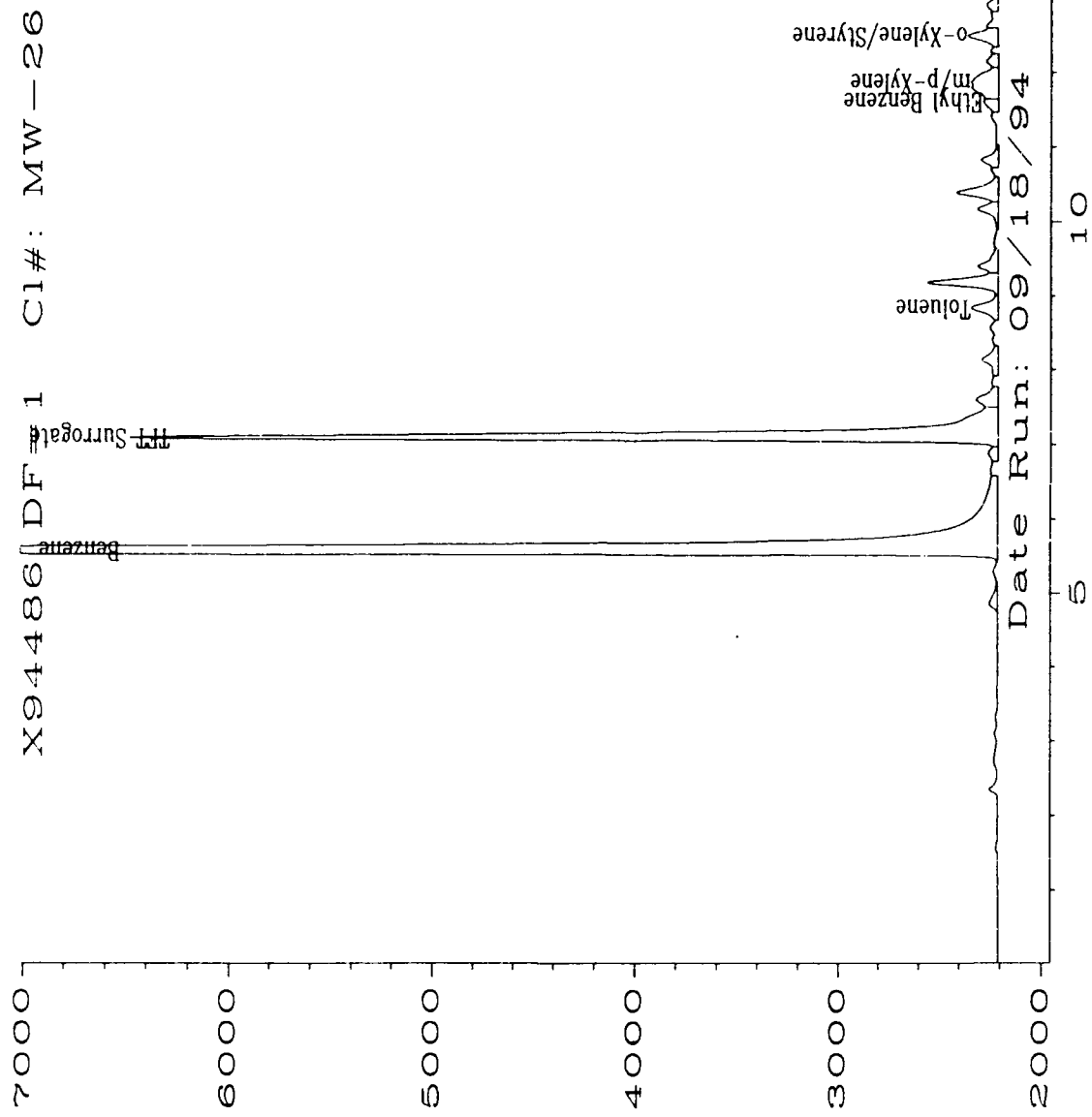
B = Compound found in blank and sample. Compare blank and sample data.

MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved



Sig. 2 in C:\HPCHEM\2\DATA\BX20917\022R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: MW-22S	Client Project No.	: Madison Ang
Lab Sample Number	: X94487	Lab Project No.	: 94-3516
Date Sampled	: 9/14/94	Dilution Factor	: 1.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/17/94	Matrix	: Water
Date Analyzed	: 9/18/94	Lab File No.	: BX2091723
		Method Blank No.	: MB091794

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	U	0.4
Toluene	108-88-3	0.4	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	U	0.4
1,3,5-trimethylbenzene	108-67-8	0.6	0.4
1,2,4-trimethylbenzene	95-63-6	0.6	0.4
1,2,3-trimethylbenzene	526-73-8	0.6	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene	: 98%
QC Reporting Limits	: 77%-116%

QUALIFIERS:

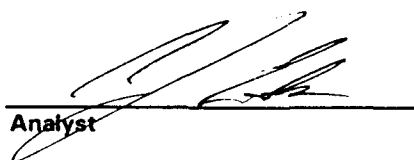
E = Extrapolated value

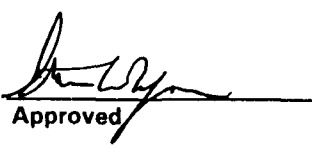
U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

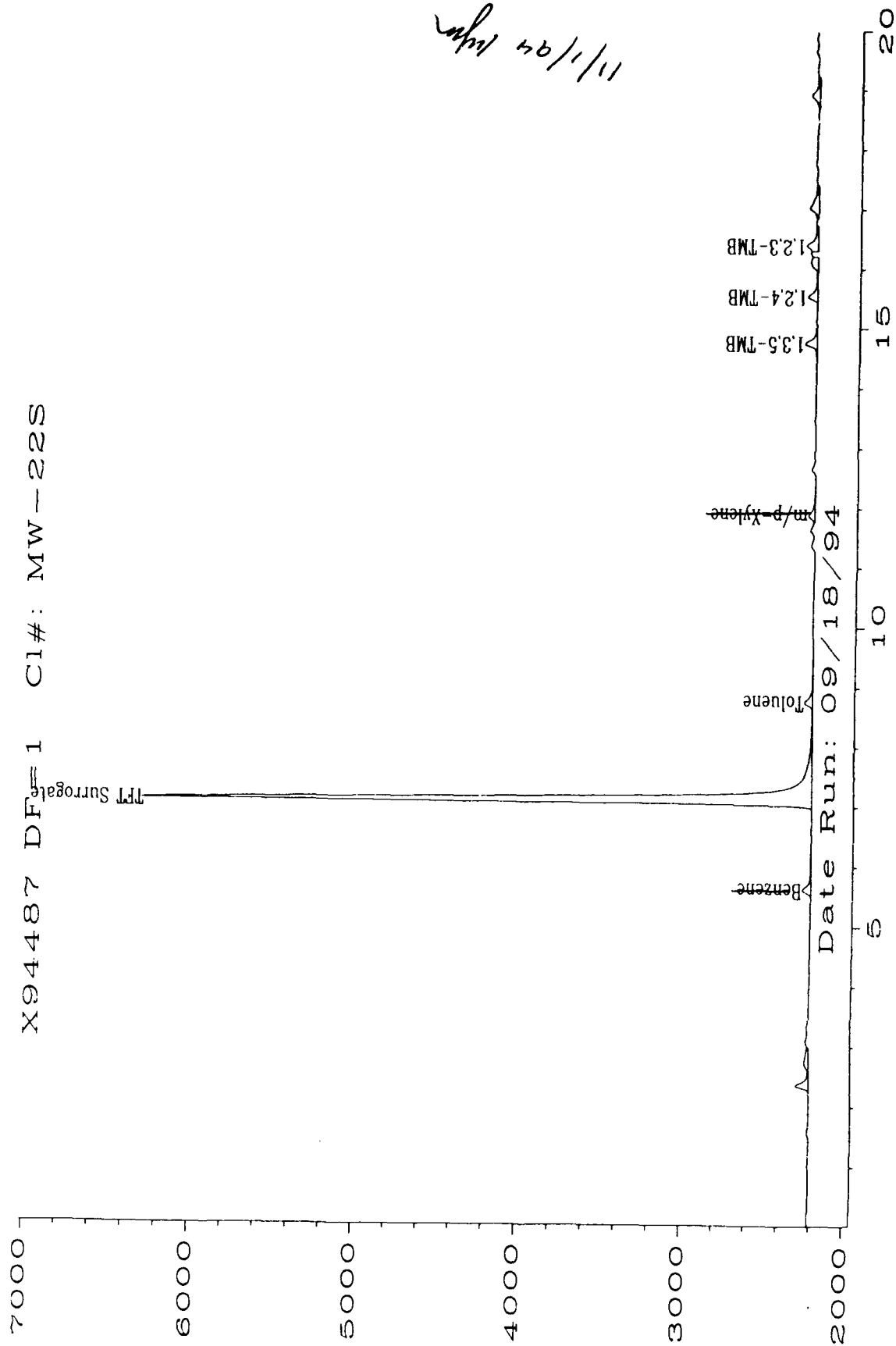
MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved

X94487 DF=1 Cl#: MW-22S



Sig. 2 in C:\HPCHEM\2\DATA\BX20917\023R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: Tri	Client Project No.	: Madison Ang
Lab Sample Number	: X9-100	Lab Project No.	: 94-3516
Date Sampled	: 9/14/94	Dilution Factor	: 1.00
Date Received	: 9/15/94	Method	: 602
Date Extracted/Prepared	: 9/17/94	Matrix	: Water
Date Analyzed	: 9/18/94	Lab File No.	: BX2091720
		Method Blank No.	: MB091794

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	U	0.4
Toluene	108-88-3	U	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	U	0.4
1,3,5-trimethylbenzene	108-67-8	U	0.4
1,2,4-trimethylbenzene	95-63-6	U	0.4
1,2,3-trimethylbenzene	526-73-8	U	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 93%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value

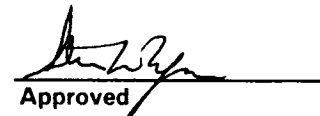
U = Compound analyzed for, but not detected.

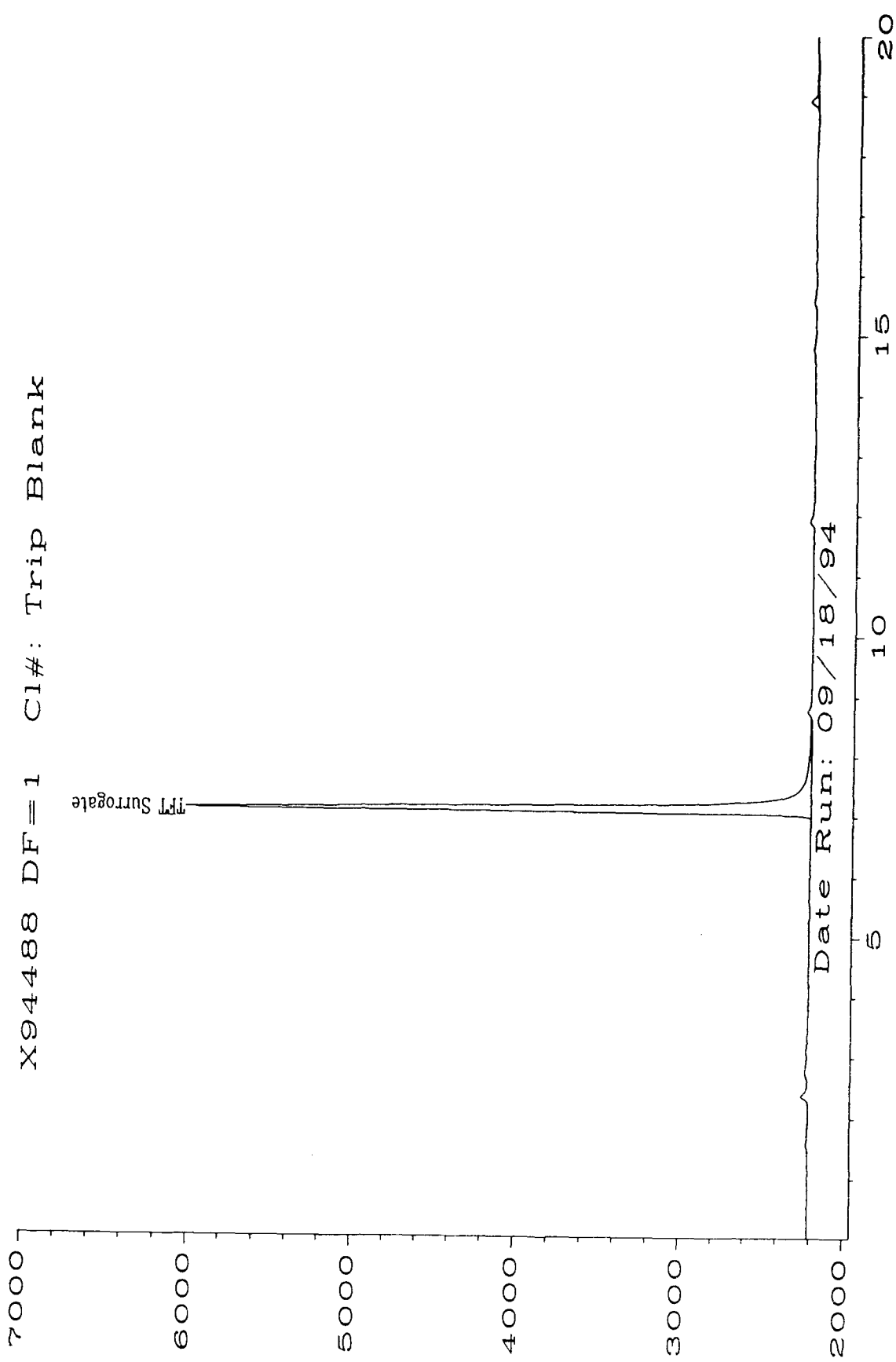
B = Compound found in blank and sample. Compare blank and sample data.

MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved



Sig. 2 in C:\HPCHEM\2\DATA\BX20917\020R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Method Blank Report

Method Blank Number	: MB091794	Client Project No.	: Madison Ang
Date Extracted/Prepared	: 9/17/94	Lab Project No.	: 94-3516
Date Analyzed	: 9/17/94	Dilution Factor	: 1.00
		Method	: 8020
		Matrix	: Water
		Lab File No.	: BX2091703

Compound Name	Cas Number	Sample Concentration ug/L	PQL ug/L
Benzene	71-43-2	U	4
Toluene	108-88-3	U	4
Ethyl Benzene	100-41-4	U	4
Total Xylene (m/p + o)	1330-20-7	U	4
1,3,5-trimethylbenzene	108-67-8	U	4
1,2,4-trimethylbenzene	95-63-6	U	4
1,2,3-trimethylbenzene	526-73-8	U	4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene	: 111%
QC Reporting Limits	: 77%-116%

QUALIFIERS:

E = Extrapolated value

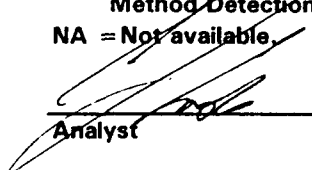
U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

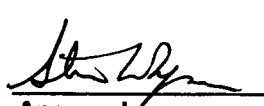
J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

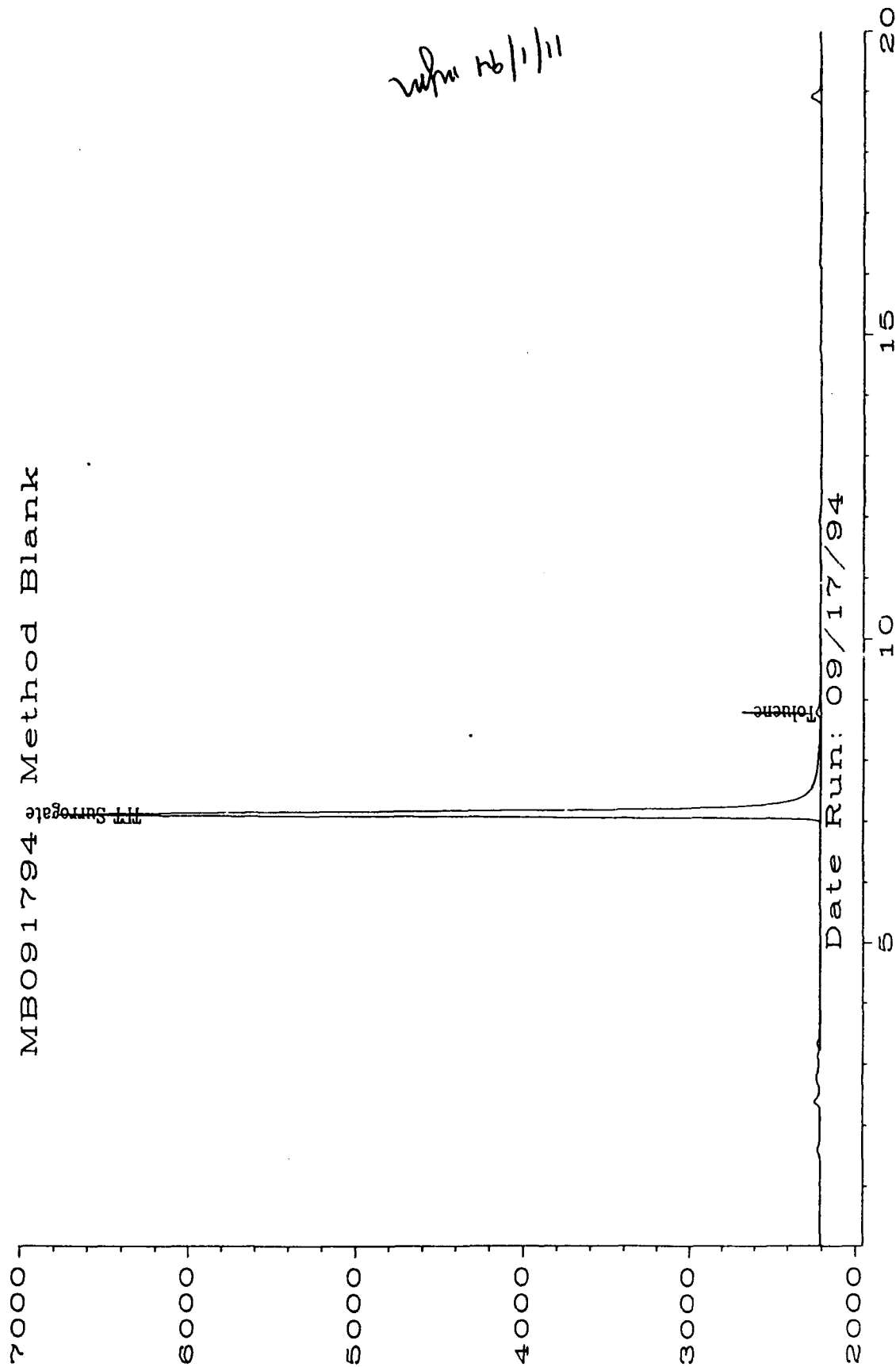
NA = Not available.



Analyst



Approved



Sig. 2 in C:\HPCHEM\2\DATA\BX20917\003R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Method Blank Report

Method Blank Number	: MB091894	Client Project No.	: Madison Ang
Date Extracted/Prepared	: 9/18/94	Lab Project No.	: 94-3516
Date Analyzed	: 9/18/94	Dilution Factor	: 1.00
		Method	: 602
		Matrix	: Water
		Lab File No.	: BX2091803

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	U	0.4
Toluene	108-88-3	0.4	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	U	0.4
1,3,5-trimethylbenzene	108-67-8	U	0.4
1,2,4-trimethylbenzene	95-63-6	U	0.4
1,2,3-trimethylbenzene	526-73-8	U	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:
a,a,a,-Trifluorotoluene : 111%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

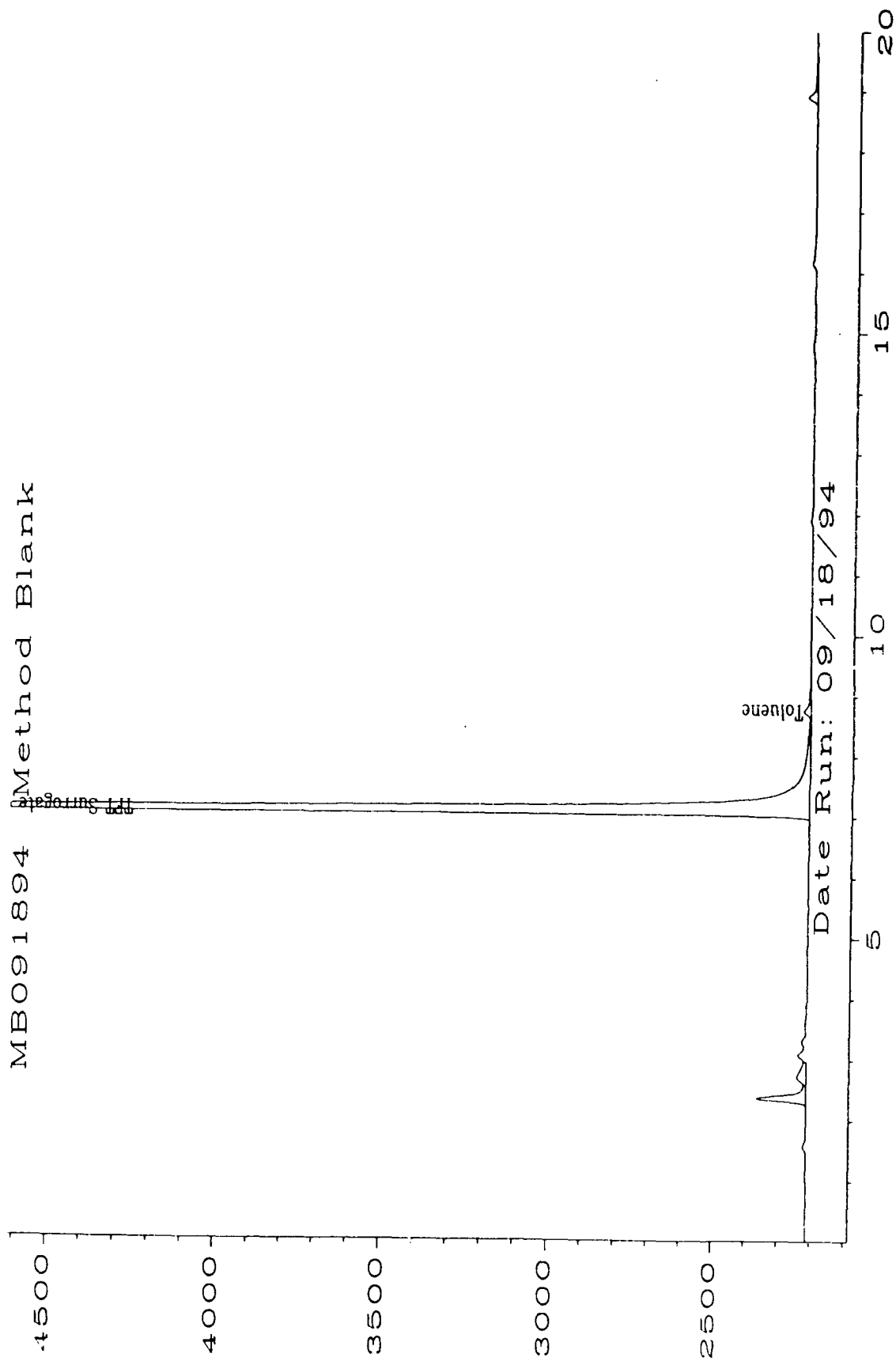
MDL = Method Detection Limit.

NA = Not available.

Analyst

Approved

MB091894 Method Blank



Sig. 2 in C:\HPCHEM\2\DATA\BX20918\003R0101.D

Evergreen Analytical, Inc.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

BTEX Water Matrix Spike/Matrix Spike Duplicate Data Report

Client Sample No.	: MW-17	Client Project No.	: Madison Ang
Lab Sample No.	: X94481	Lab Project No.	: 94-3516
Date Sampled	: 9/14/94	EPA Method No.	: 602
Date Received	: 9/15/94	Matrix	: Water
Date Prepared	: 9/17/94	Lab File Number(s)	: BX2091725,26
Date Analyzed	: 9/18/94	Method Blank	: MB091794

Compound	Spike Added (ug/L)	Sample Concentration (ug/L)	MS Concentration (ug/L)	MS %REC	QC Limits %REC
Benzene	20	0	19.5	97.5	65-121
Toluene	20	0	20.1	100.5	69-117
Ethyl Benzene	20	0	20.3	101.5	68-118
m/p-Xylene	20	0	20	100	66-116
o-Xylene	20	0	20	100	73-117
1,3,5-TMB	20	0	20.9	104.5	65-12
1,2,4-TMB	20	0	20.4	102	65-12
1,2,3-TMB	20	0	21.4	107	65-121

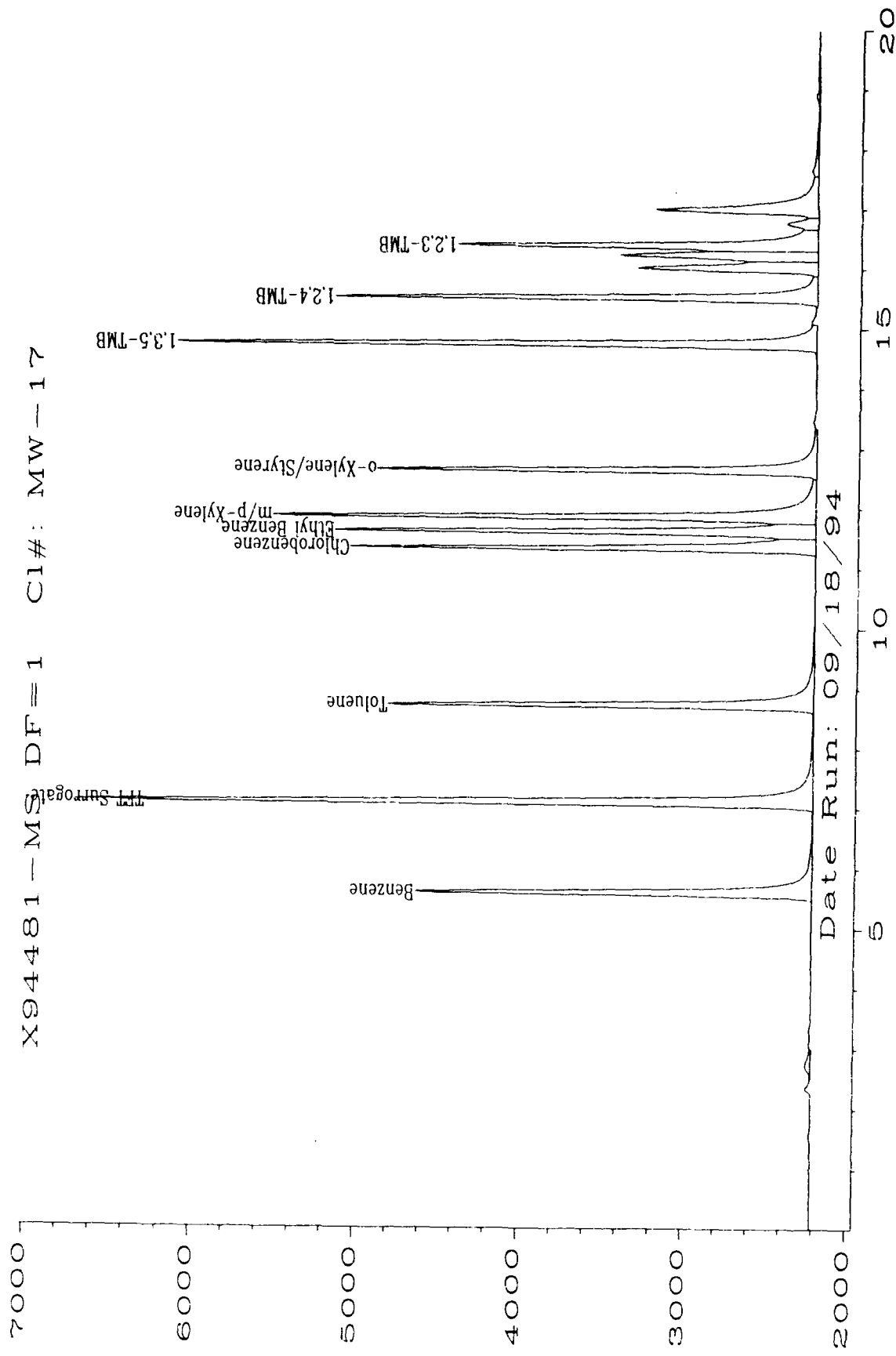
Compound	Spike Added (ug/L)	MSD Concentration (ug/L)	MS %REC	RPD	QC Limits	
					RPD	%REC
Benzene	20	19.7	98.5	1.0	17.4	65-121
Toluene	20	19.7	98.5	2.0	15.8	69-117
Ethyl Benzene	20	20.6	103	1.5	11.9	68-118
m/p-Xylene	20	20.3	101.5	1.5	15.4	66-116
o-Xylene	20	20.2	101	1.0	13.2	73-117
1,3,5-TMB	20	21.1	105.5	1.0	17.4	65-121
1,2,4-TMB	20	20.5	102.5	0.5	17.4	65-121
1,2,3-TMB	20	21.9	109.5	2.3	17.4	65-121

* = Values outside of QC limits.

RPD: 0 out of (8) outside limits.

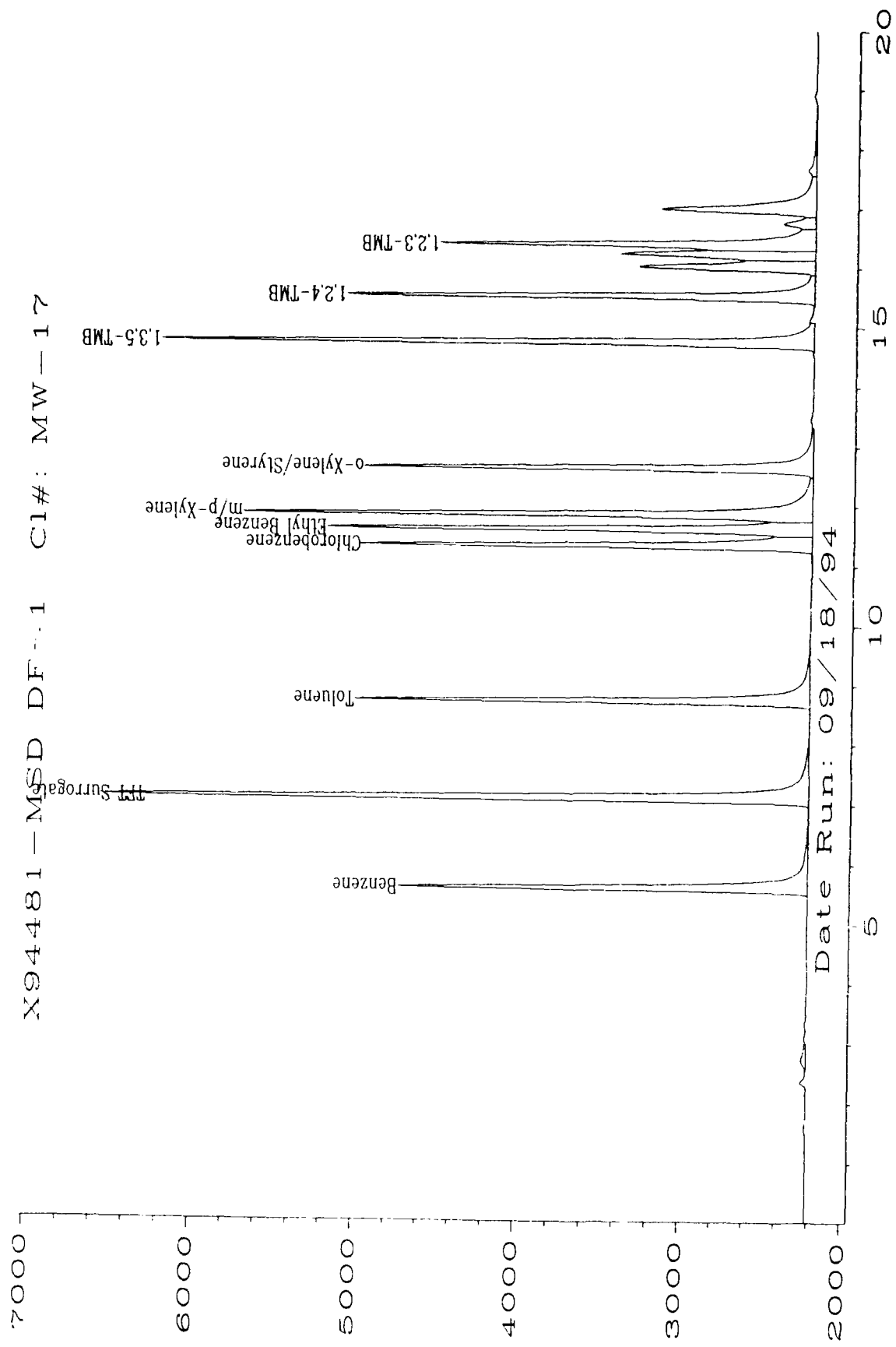
Spike Recovery: 0 out of (16) outside limits.

Comments: CJC



Sig. 2 in C:\HPCHEM\2\DATA\BX20917\025R0101.D

X94481-MSD DF-1 Cl#: MW-17



Sig. 2 in C:\HPCHEM\2\DATA\BX20917\026R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Laboratory Control Sample (LCS)

LCS Number	: LCS091794	Client Project No.	: Madison Ang
Date Extracted/Prepared	: 9/17/94	Lab Project No.	: 94-3516
Date Analyzed	: 9/17/94	Dilution Factor	: 1.00
		Method	: 8020
		Matrix	: Water
		Lab File No.	: BX2091713

Compound Name	Cas Number	LCS Concentration ug/L	QC Limit ug/L
Benzene	71-43-2	28	29-47
Toluene	108-88-3	29	30-42
Ethyl Benzene	100-41-4	31	31-43
m/p-Xylene	NA	31	31-42
o-Xylene	95-47-6	31	31-42
1,3,5-trimethylbenzene	108-67-8	30	NA
1,2,4-trimethylbenzene	95-63-6	29	NA
1,2,3-trimethylbenzene	526-73-8	34	NA

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 84%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

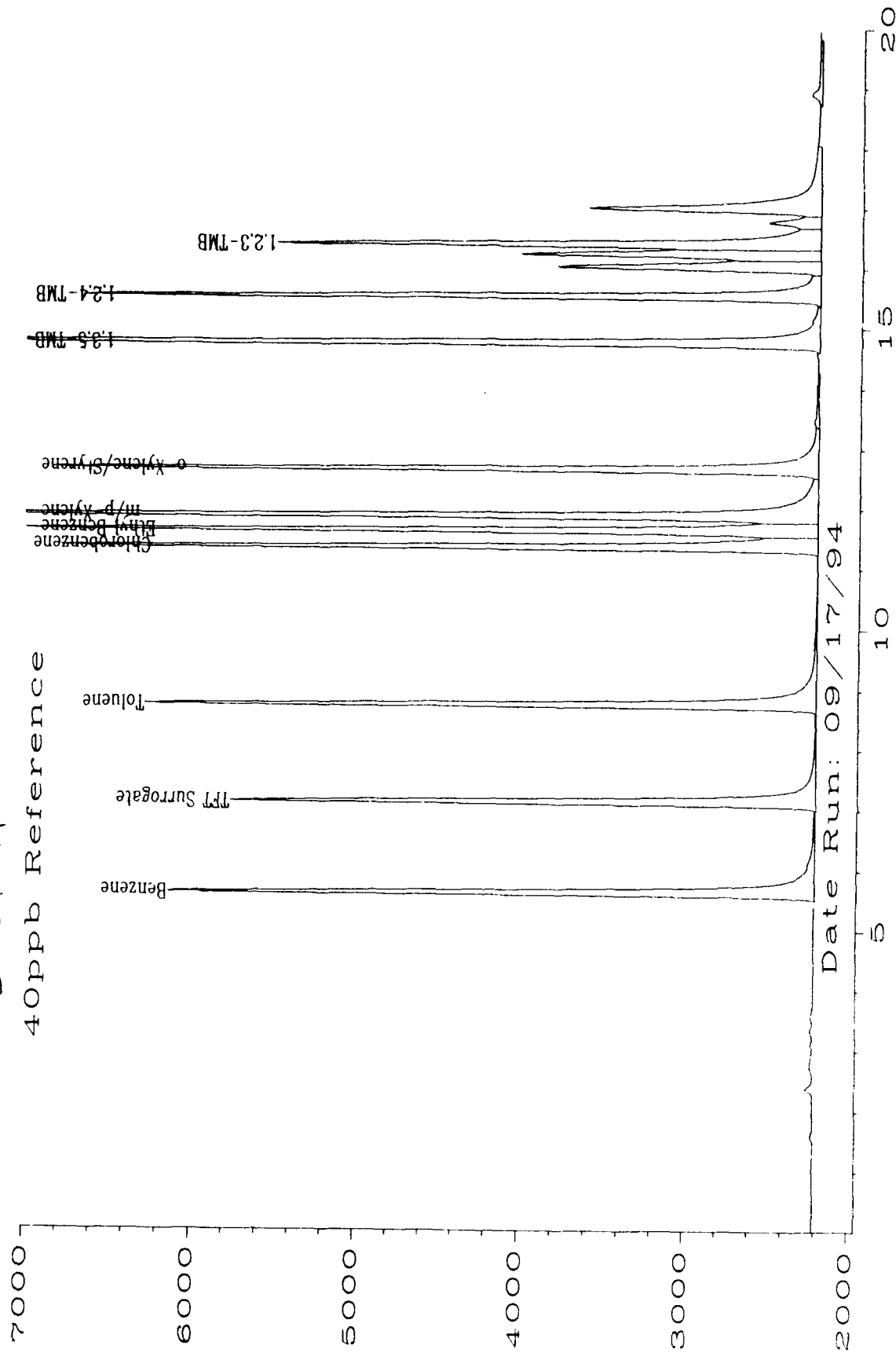
PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.

Analyst

Approved

LCS091794
40ppb Reference



Sig. 2 in C:\HPCHEM\2\DATA\BX20917\013R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Laboratory Control Sample (LCS)

LCS Number	: LCS091894	Client Project No.	: Madison Ang
Date Extracted/Prepared	: 9/18/94	Lab Project No.	: 94-3516
Date Analyzed	: 9/18/94	Dilution Factor	: 1.00
		Method	: 8020
		Matrix	: Water
		Lab File No.	: BX2091813

Compound Name	Cas Number	LCS Concentration ug/L	QC Limit ug/L
Benzene	71-43-2	35	29-47
Toluene	108-88-3	36	30-42
Ethyl Benzene	100-41-4	39	31-43
m/p-Xylene	NA	39	31-42
o-Xylene	95-47-6	38	31-42
1,3,5-trimethylbenzene	108-67-8	37	NA
1,2,4-trimethylbenzene	95-63-6	37	NA
1,2,3-trimethylbenzene	526-73-8	42	NA

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

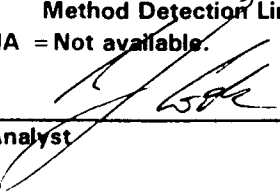
a,a,a-Trifluorotoluene : 99%
QC Reporting Limits : 77%-116%

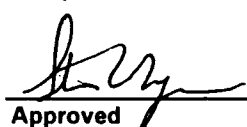
QUALIFIERS:

E = Extrapolated value
U = Compound analyzed for, but not detected.
B = Compound found in blank and sample. Compare blank and sample data.
J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

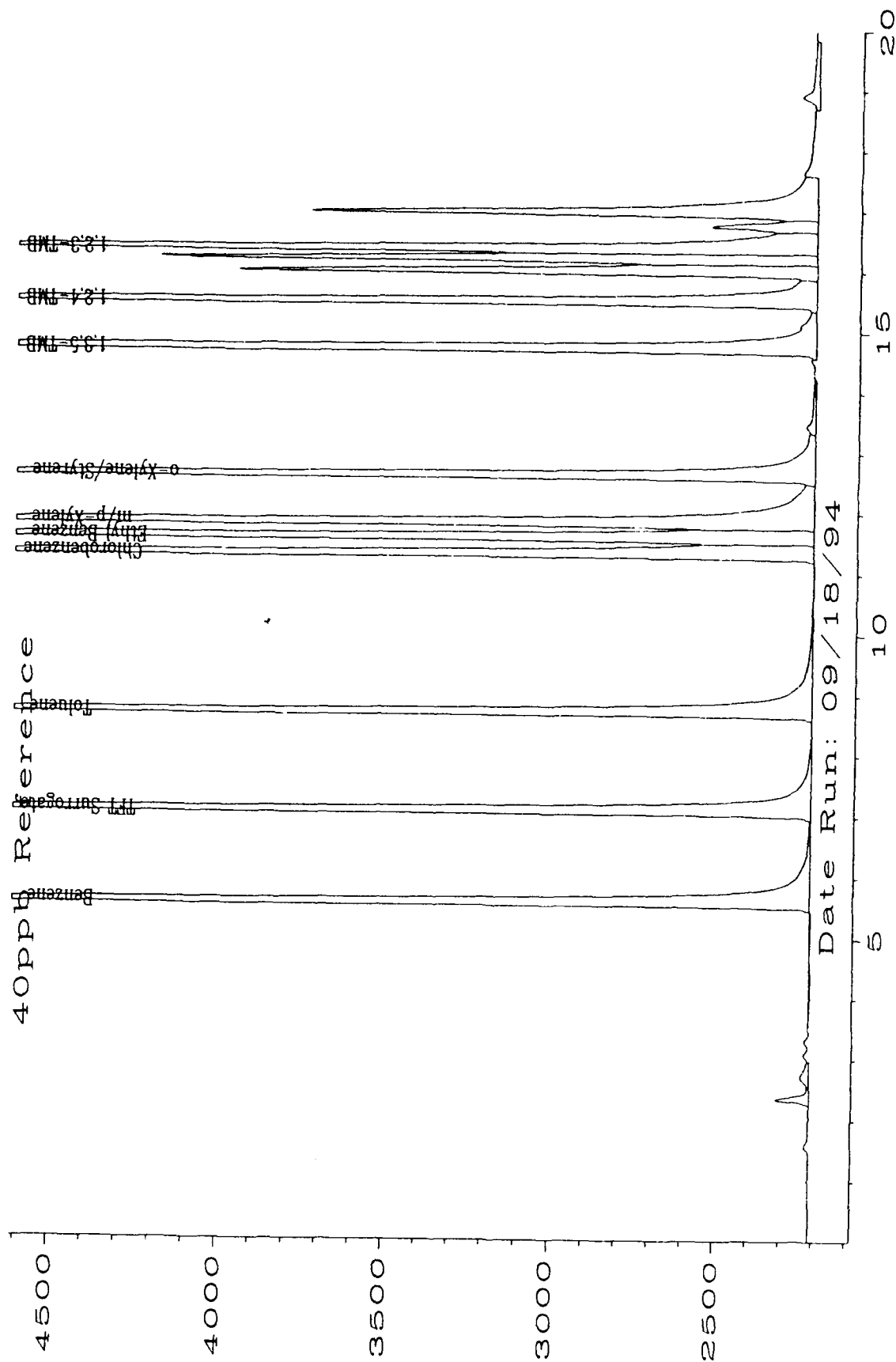
PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.

Analyst 

Approved 

LC5091894



Sig. 2 in C:\HPCHEM\2\DATA\BX20918\O13R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS (TVH)

Date Sampled : 9/14/94 Client Project Number : Madison Ang
Date Received : 9/15/94 Lab Project Number : 94-3516
Date Prepared : 9/20/94 Matrix : Water
Date Analyzed : 9/20,21/94 Method Number : 5030/Mod.8015

Evergreen Sample #	Client Sample #	Surrogate Recovery	TVH mg/L	MDL mg/L
MB092094	Method Blank	100%	U	0.1
X94481	MW-17	85%	U	0.1
X94482	MW-10	77%	4	0.2
X94483	MW-8	94%	19	0.2
X94485	MW-9	91%	0.6	0.1
X94486	MW-26	87%	U	0.1
X94487	MW-22S	83%	0.5	0.1

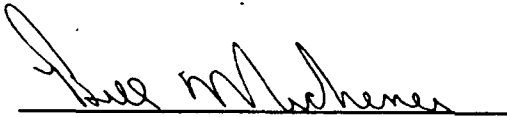
QUALIFIERS

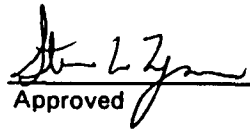
U = TVH analyzed for but not detected.

B = TVH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

MDL = Method Detection Limit


Analyst


Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS (TVH)

Date Sampled	: 9/14/94	Client Project Number	: Madison Ang
Date Received	: 9/15/94	Lab Project Number	: 94-3516
Date Prepared	: 9/22/94	Matrix	: Soil
Date Analyzed	: 9/22,23/94	Method Number	: 5030/Mod.8015

<u>Evergreen Sample #</u>	<u>Client Sample #</u>	<u>Surrogate Recovery</u>	<u>TVH mg/Kg</u>	<u>MDL mg/Kg</u>
MB092294	Method Blank	100%	U	0.1
X94484	WANG-CPT17-5	102%	17	0.22

QUALIFIERS

U = TVH analyzed for but not detected.

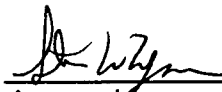
B = TVH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

MDL = Method Detection Limit

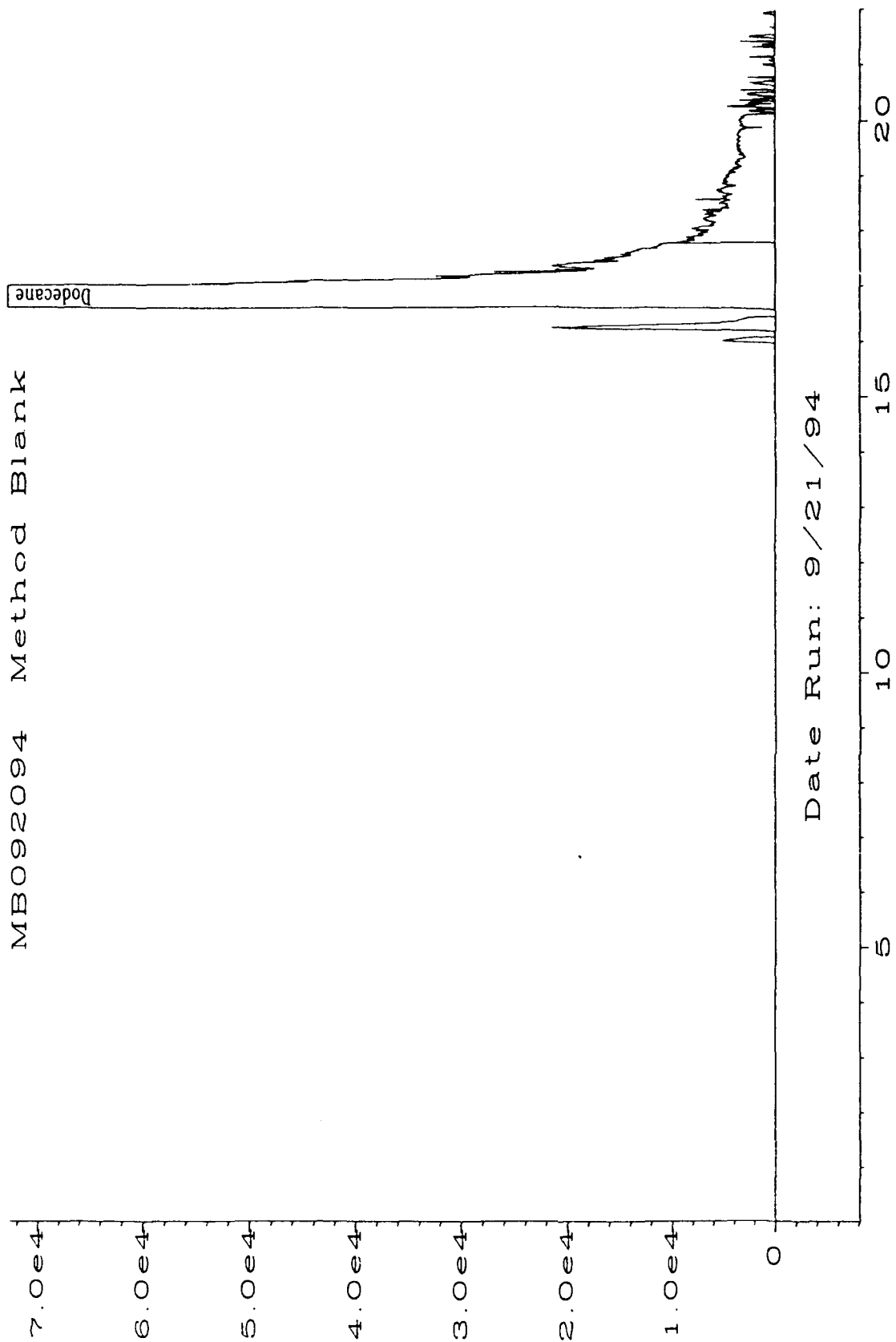


Analyst



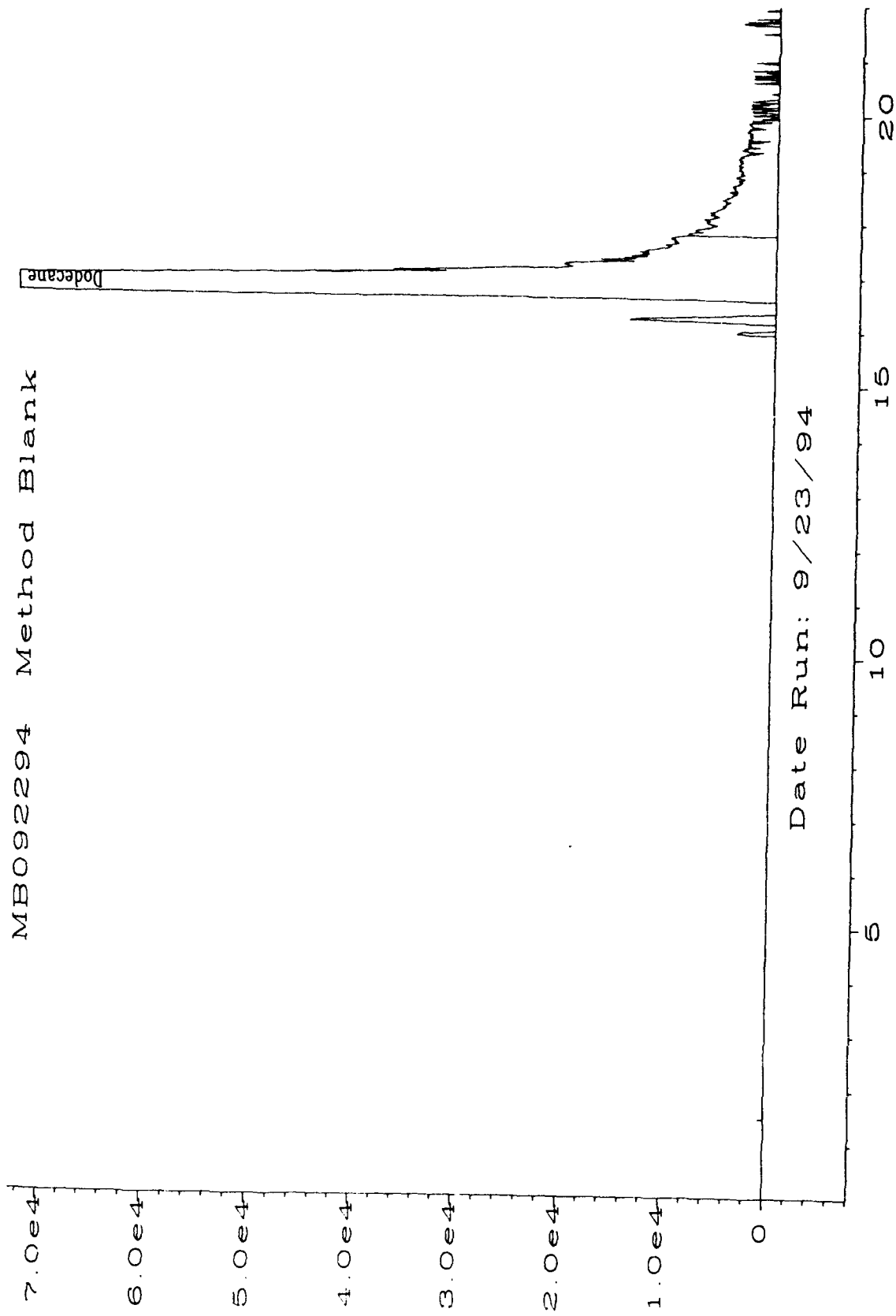
Approved

MB092094 Method Blank



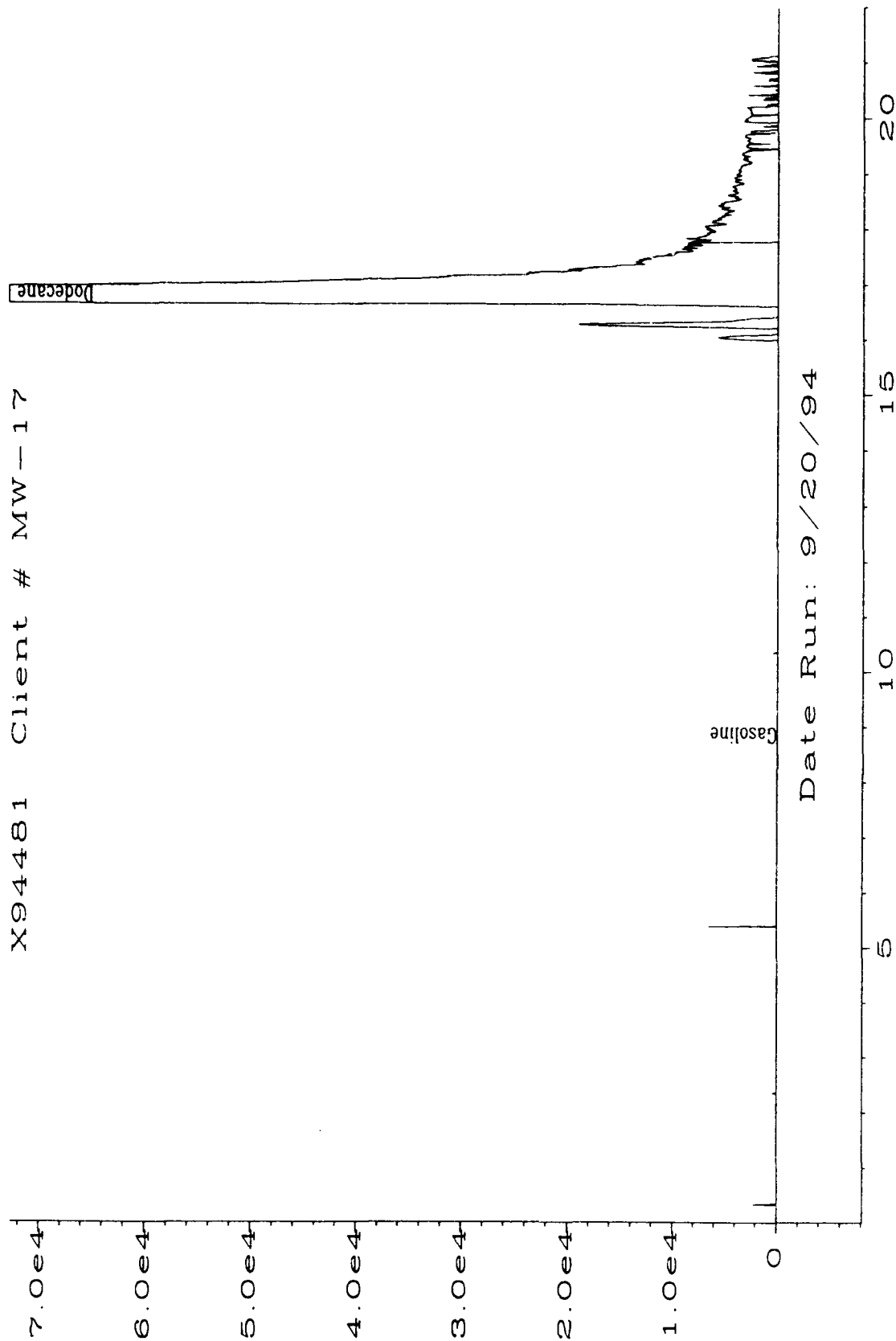
Sig. 1 in C:\HPCHEM\1\DATA\TVH0920\018F0101.D

MB092294 Method Blank

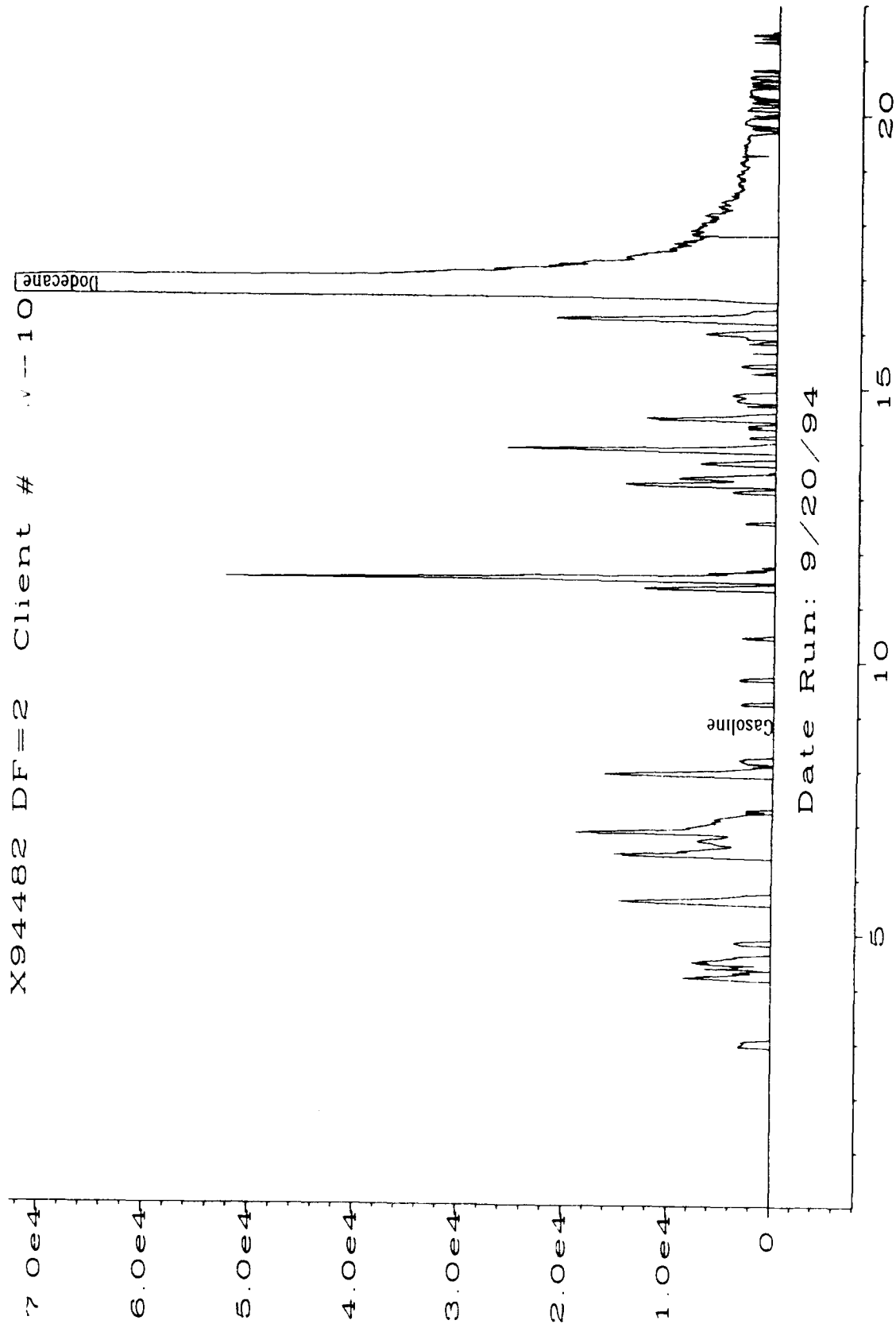


Sig. 1 in C:\HPCHEM\1\DATA\TVH09222\018F0101.D

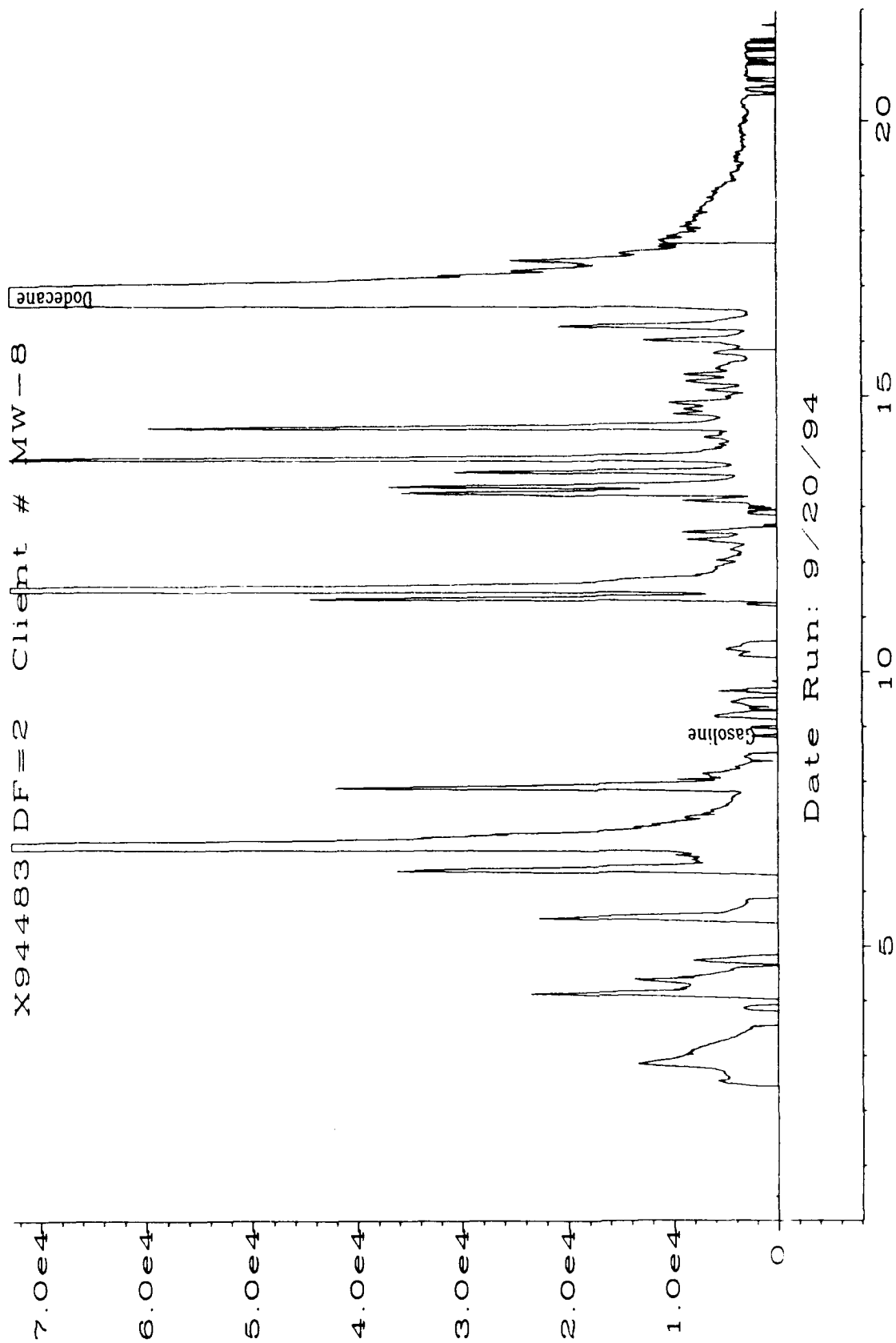
X94481 Client # MW-17



Sig. 1 in C:\HPCHEM\1\DATA\TVH0920\006F0101.D

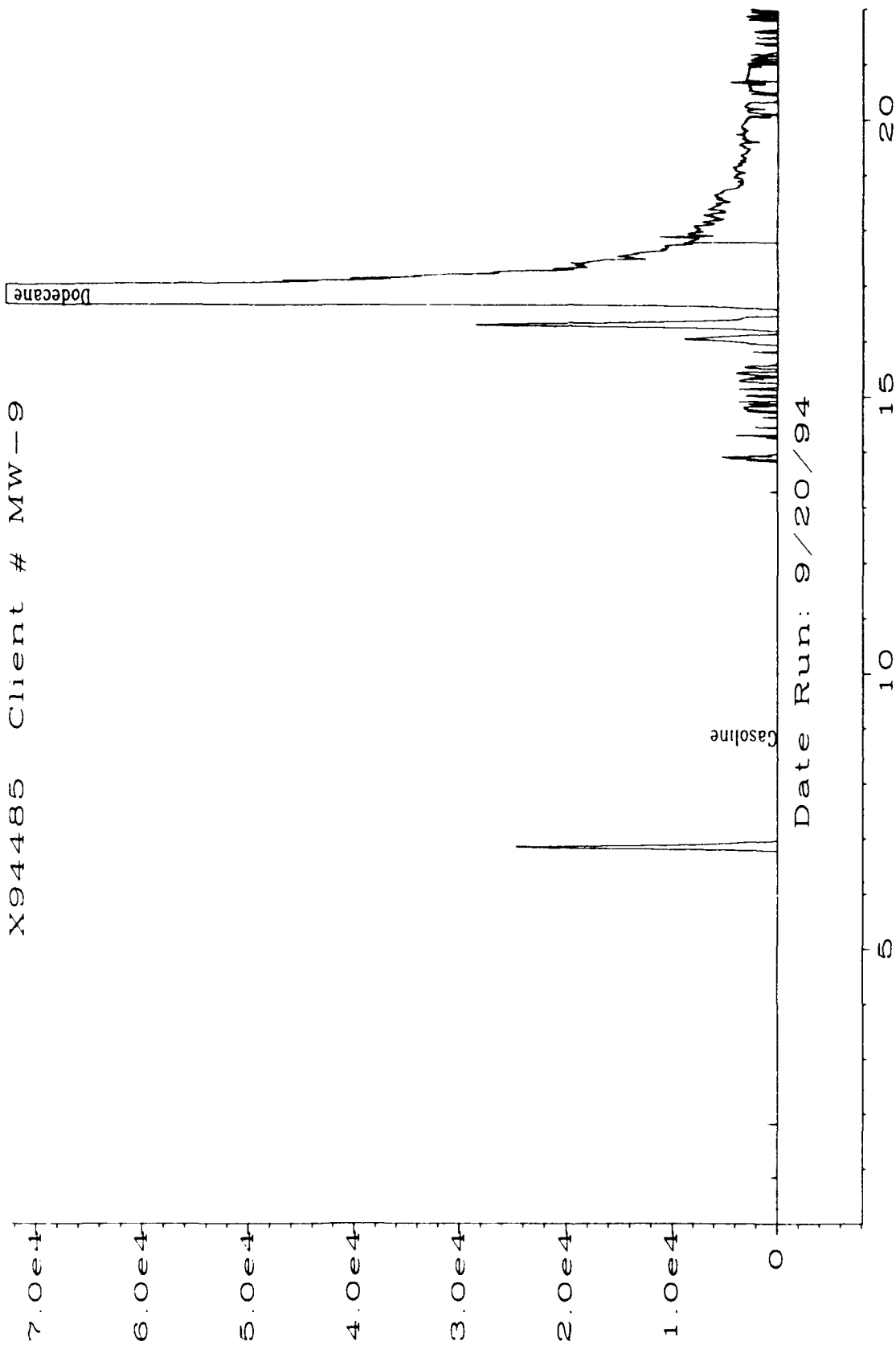


Sig. 1 in C:\HPCHEM\1\DATA\TVH0920\007F0101.D



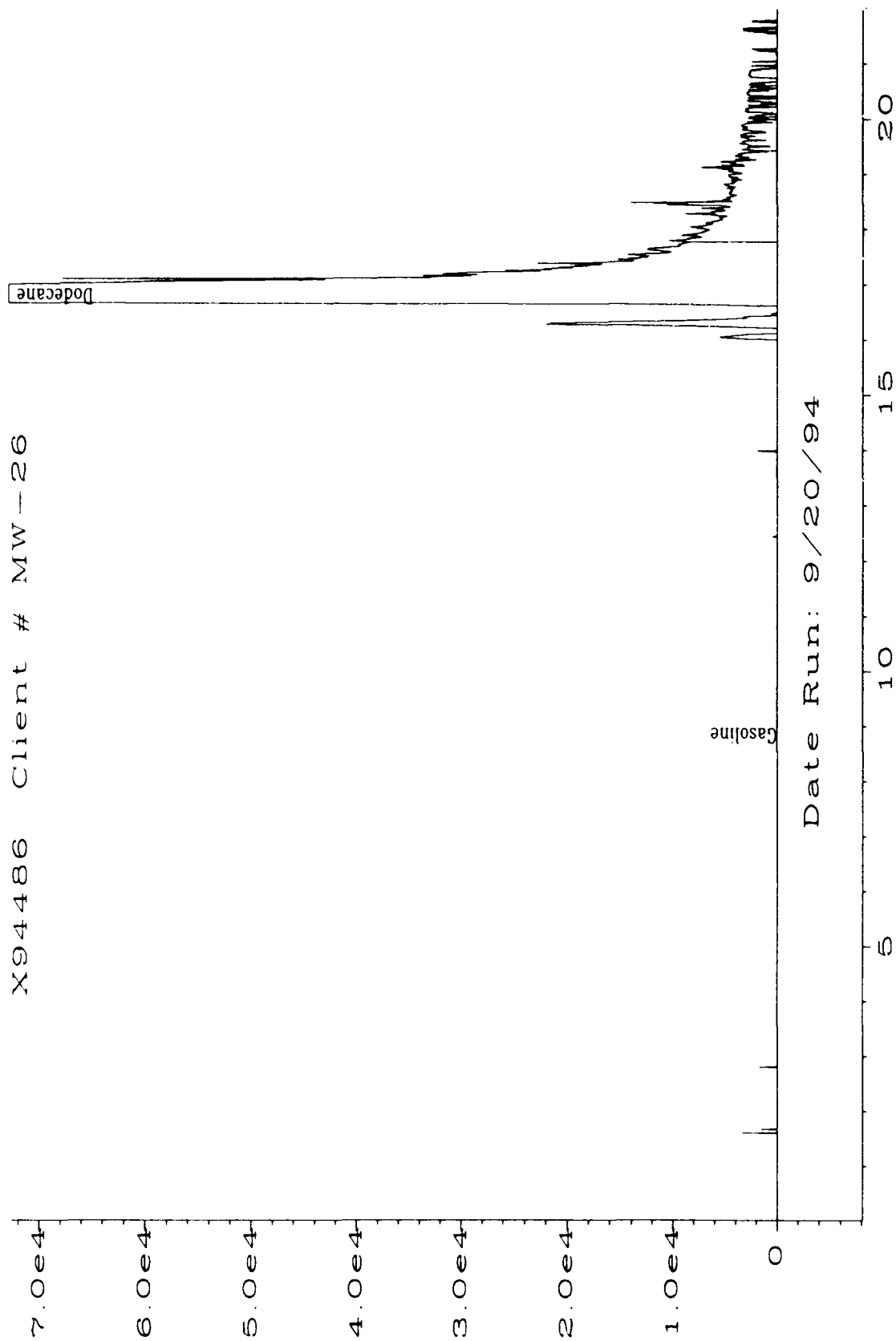
Sig. 1 in C:\HPCHEM\1\DATA\TVH0920\008F0101.D

X94485 Client # MW-9



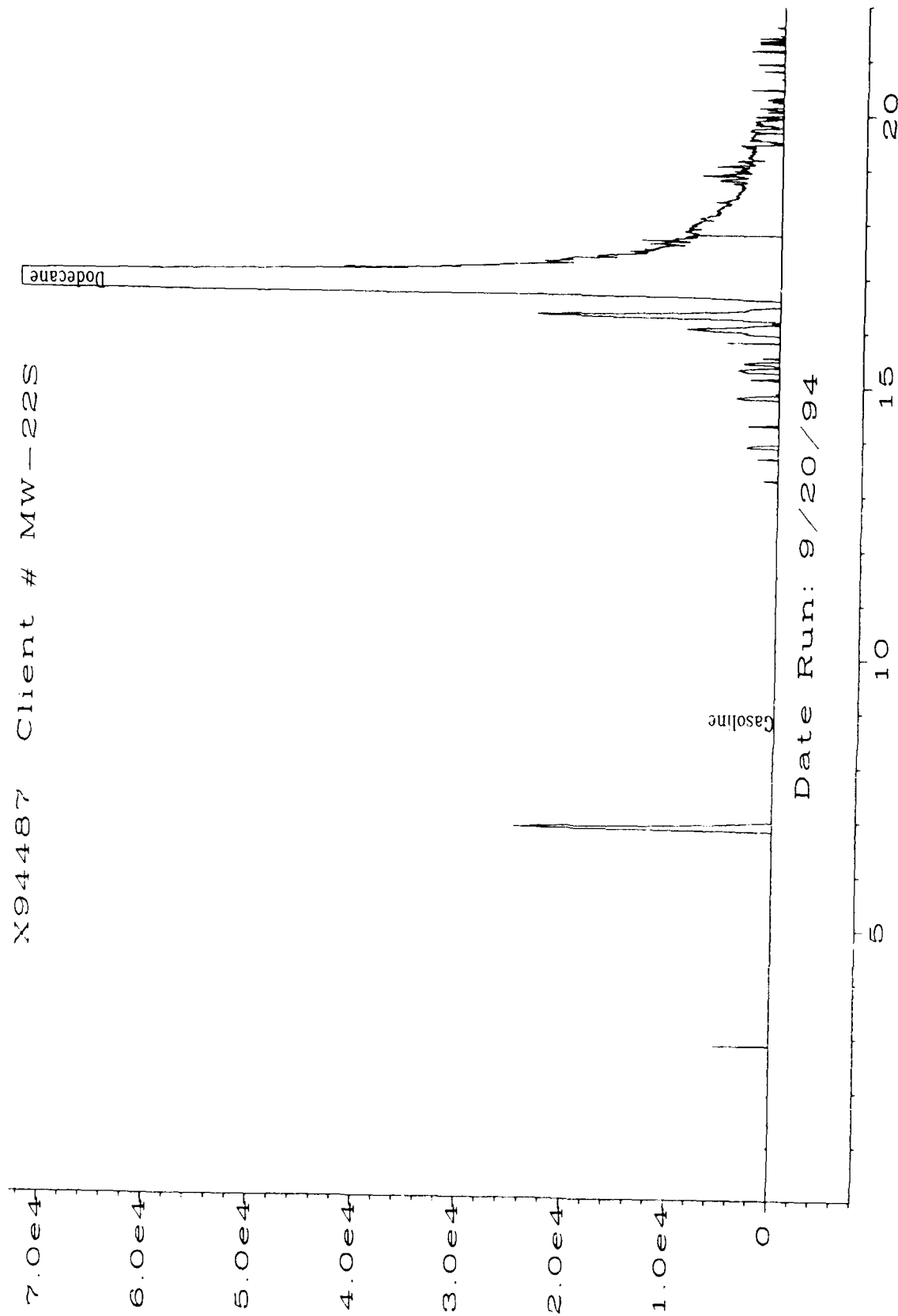
Sig. 1 in C:\HPCHEM\1\DATA\TVH0920\009F0101.D

X944486 Client # MW-26



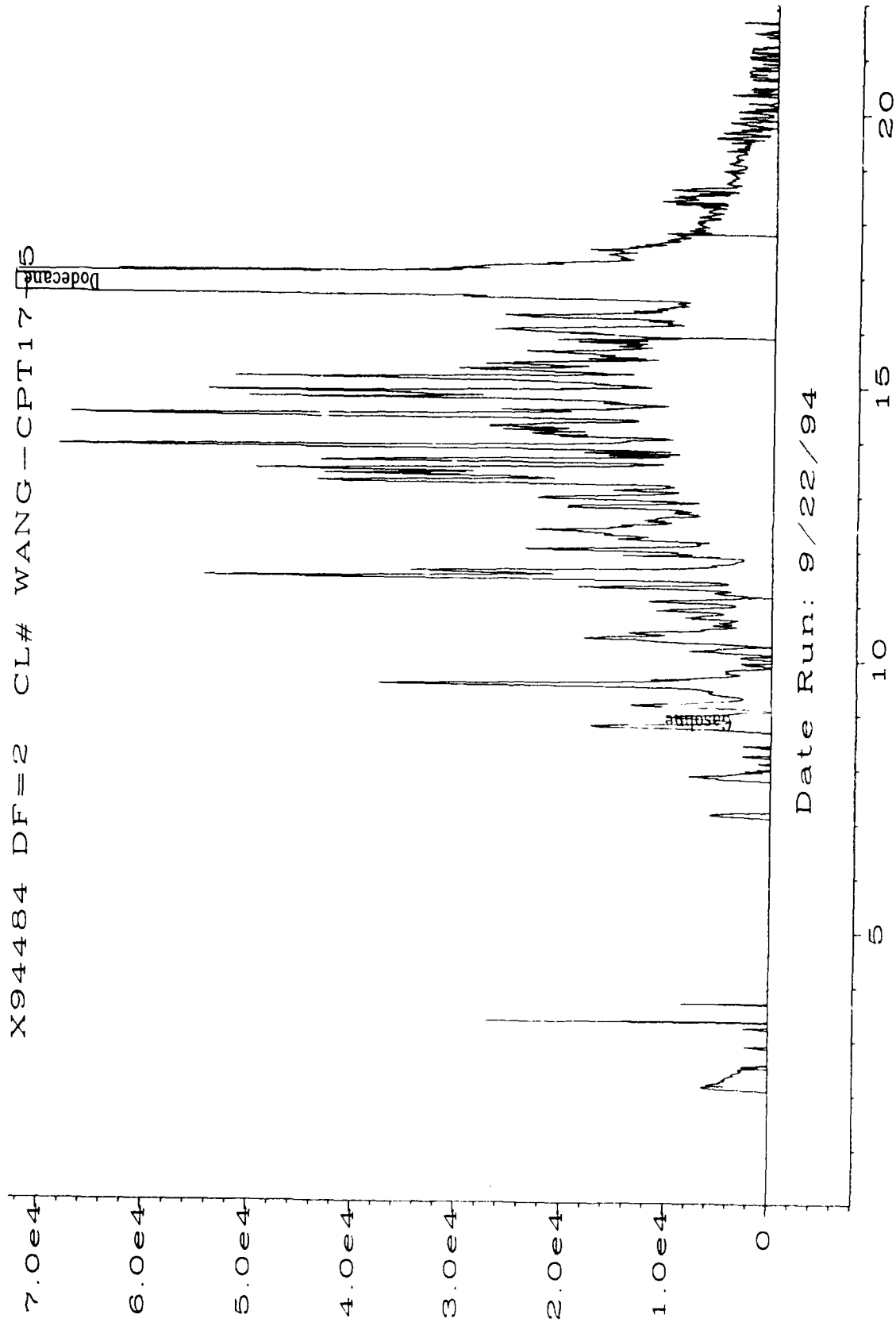
Sig. 1 in C:\HPCHEM\1\DATA\TVH0920\010F0101.D

X944487 Client # MW-22S



Sig. 1 in C:\HPCHEM\1\DATA\TVH0920\011F0101.D

X94484 DF=2 CL# WANG-CPT17



Sig. 1 in C:\HPCHEM\1\DATA\TVH0922\001F0101.D

Evergreen Analytical, Inc.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS
TVH Matrix Spike/Matrix Spike Duplicate Data Report

Client Sample No.	: MW-17	Client Project No.	: Madison Ang
Lab Sample No.	: X94481	Lab Project No.	: 94-3516
Date Sampled	: 9/14/94	EPA Method No.	: 5030/8015 Mod.
Date Received	: 9/15/94	Matrix	: Water
Date Prepared	: 9/20/94	Method Blank	: MB092094
Date Analyzed	: 9/21/94		

Compound	Spike Added (mg/L)	Sample Concentration (mg/L)	MS Concentration (mg/L)	MS %REC	QC Limits %REC
Gasoline	10	0	11.2	112	60-140

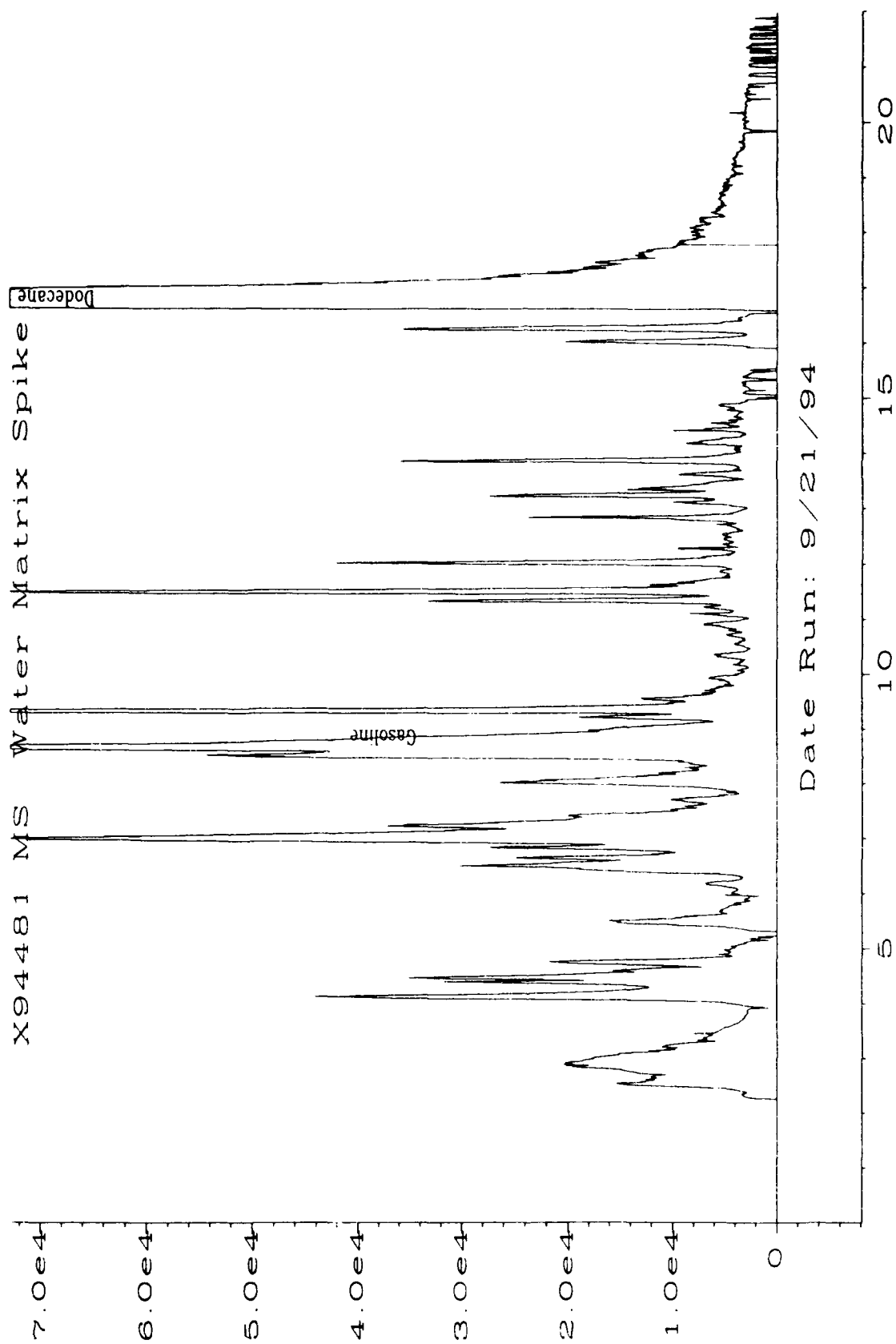
Compound	Spike Added (mg/L)	MSD Concentration (mg/L)	MS %REC	RPD	QC Limits	
					RPD	%REC
Gasoline	10	10.7	107	4.6	50	60-140

* = Values outside of QC limits.

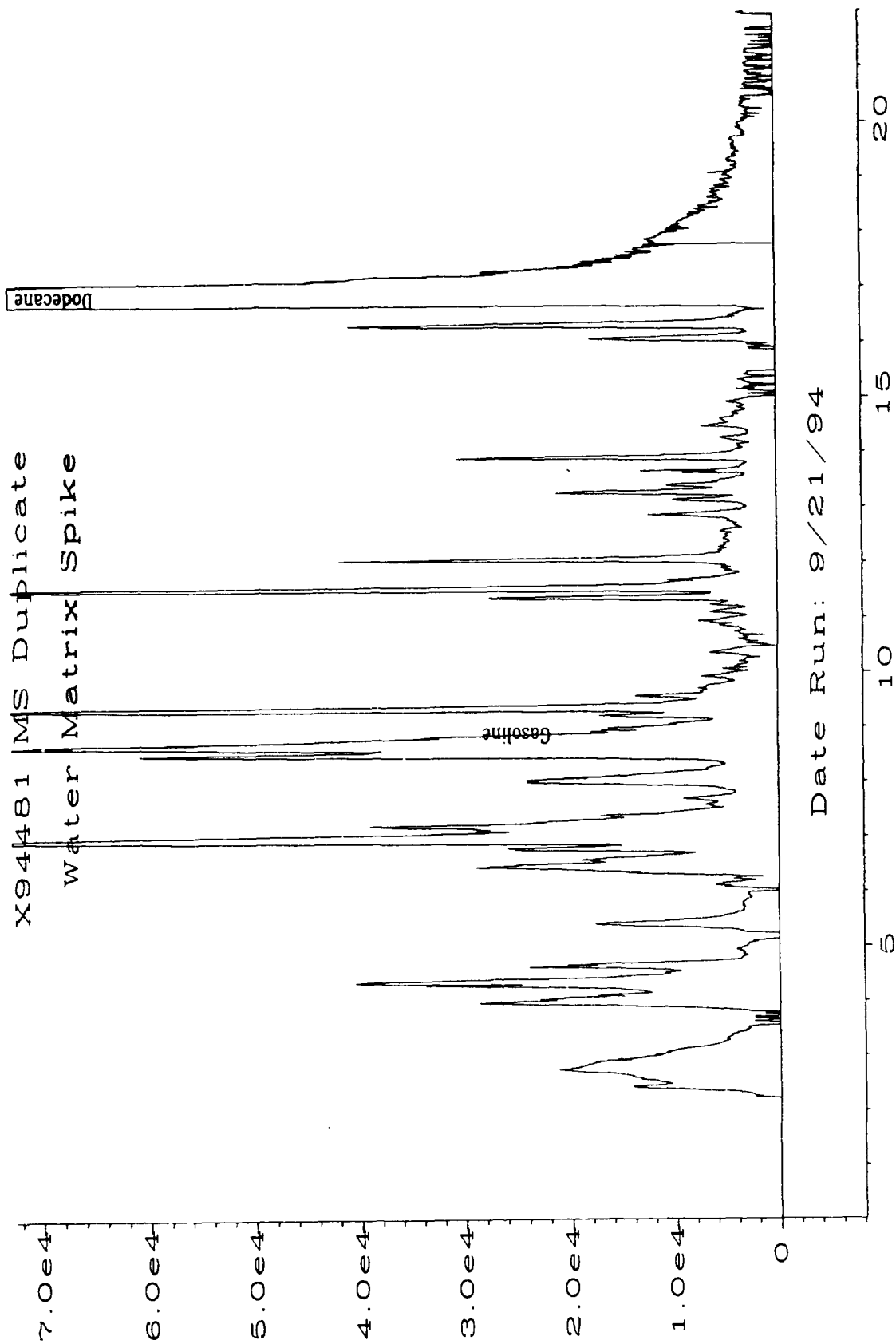
RPD: 0 out of (1) outside limits.

Spike Recovery: 0 out of (2) outside limits.

Comments: NA = Not analyzed/not applicable.



Sig. 1 in C:\HPCHEM\1\DATA\TVH0920\030F0101.D



Sig. 1 in C:\HPCHEM\1\DATA\TVH0920\031F0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS (TVH)
Laboratory Control Sample (LCS)

LCS Number : LCS092094 Client Project Number : Madison Ang
Date Prepared : 9/21/94 Lab Project Number : 94-3516
Date Analyzed : 9/21/94 Matrix : Water
Sequence Number : TVH0920 Method Number : 3500/Mod. 8015

<u>Compound Name</u>	<u>Theoretical Concentration mg/L</u>	<u>LCS Concentration mg/ L</u>	<u>QC Limit mg/L</u>
Gasoline	5	6.3	3.5-6.5

QUALIFIERS

U = TEH analyzed for but not detected.

B = TEH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

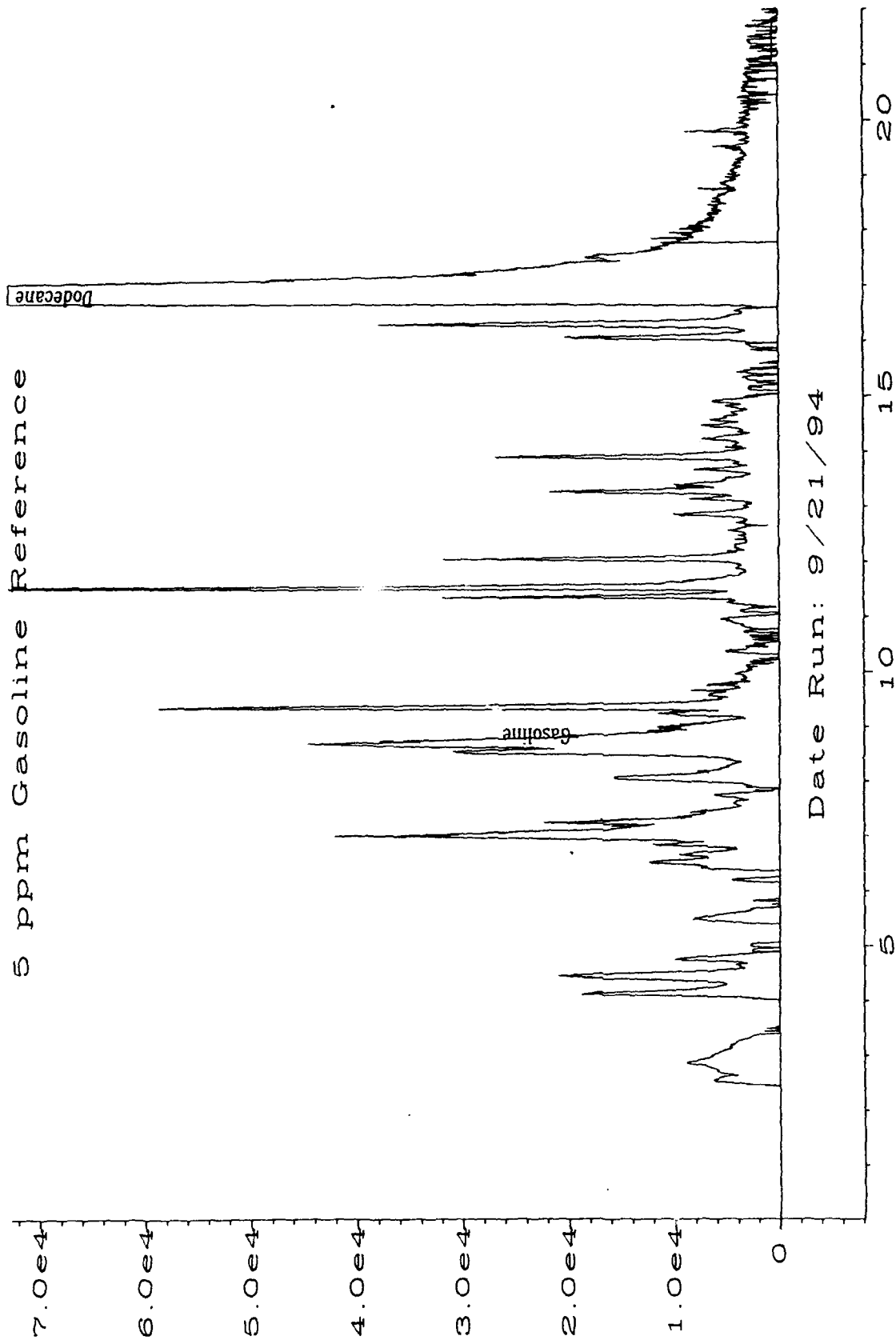
NA = Not Available.



Analyst



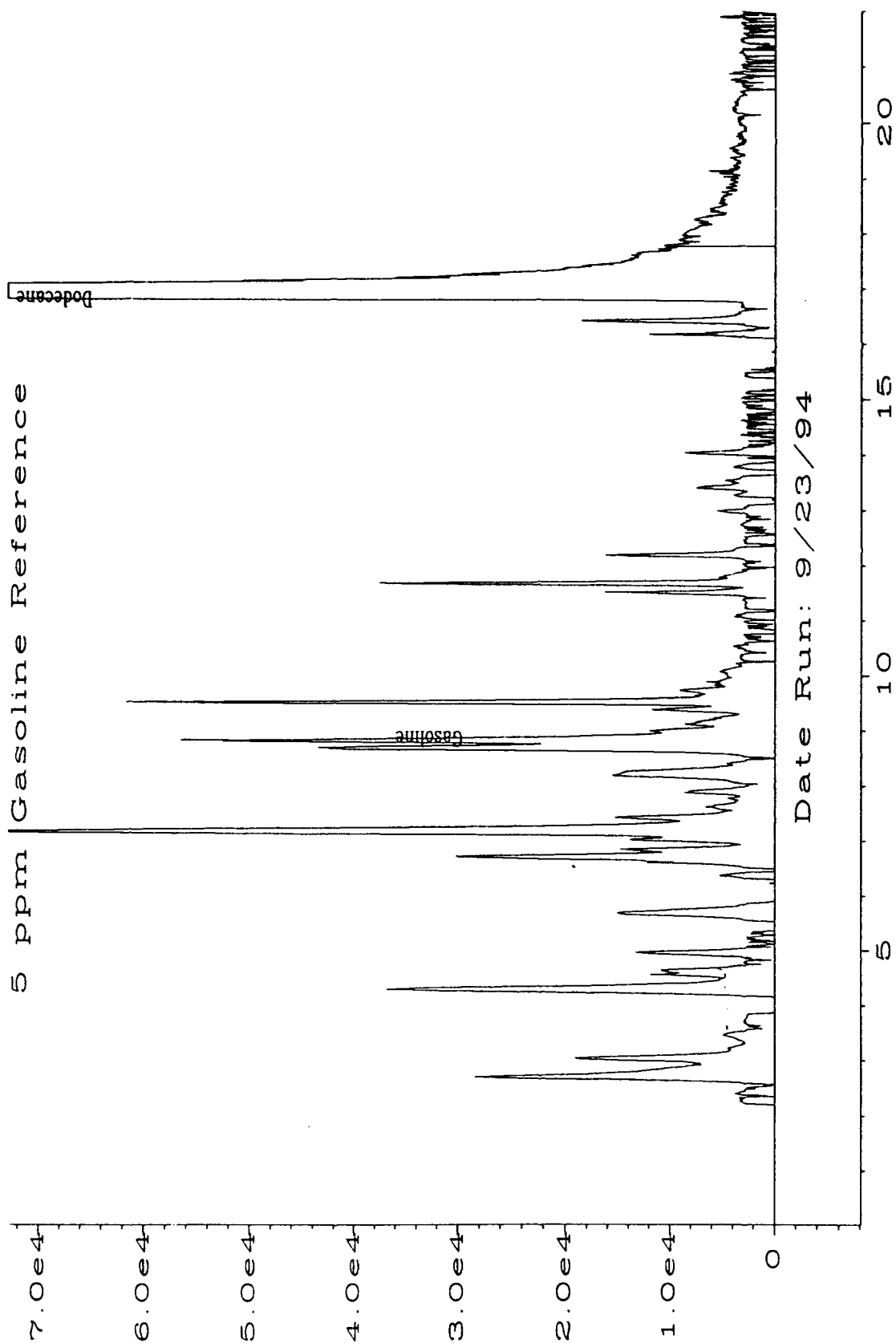
Approved



Sig. 1 in C:\HPCHEM\1\DATA\TVH0920\047F0101.D

5 | 11

LCS09.94



Sig. 1 in C:\HPCHEM\1\DATA\TVH0922\044F0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL EXTRACTABLE HYDROCARBONS (TEH)

Date Sampled : 9/14/94 Client Project Number : Madison Ang
Date Received : 9/15/94 Lab Project Number : 94-3516
Date Prepared : 9/16/94 Matrix : Water
Date Analyzed : 9/21/94 Method Number : 3500/Mod.8015

Evergreen Sample #	Client Sample #	Surrogate Recovery	TEH mg/L	MDL mg/L
WB091694	Water Method Blank	90%	U	0.5
X94481	MW-17	80%	U	0.5
X94482	MW-10	141%	1.4	0.5
X94483	MW-8	62%	6.2	0.5
X94485	MW-9	70%	0.5	0.5
X94486	MW-26	71%	0.5	0.5
X94487	MW-22S	76%	U	0.5

QUALIFIERS

U = TEH analyzed for but not detected.

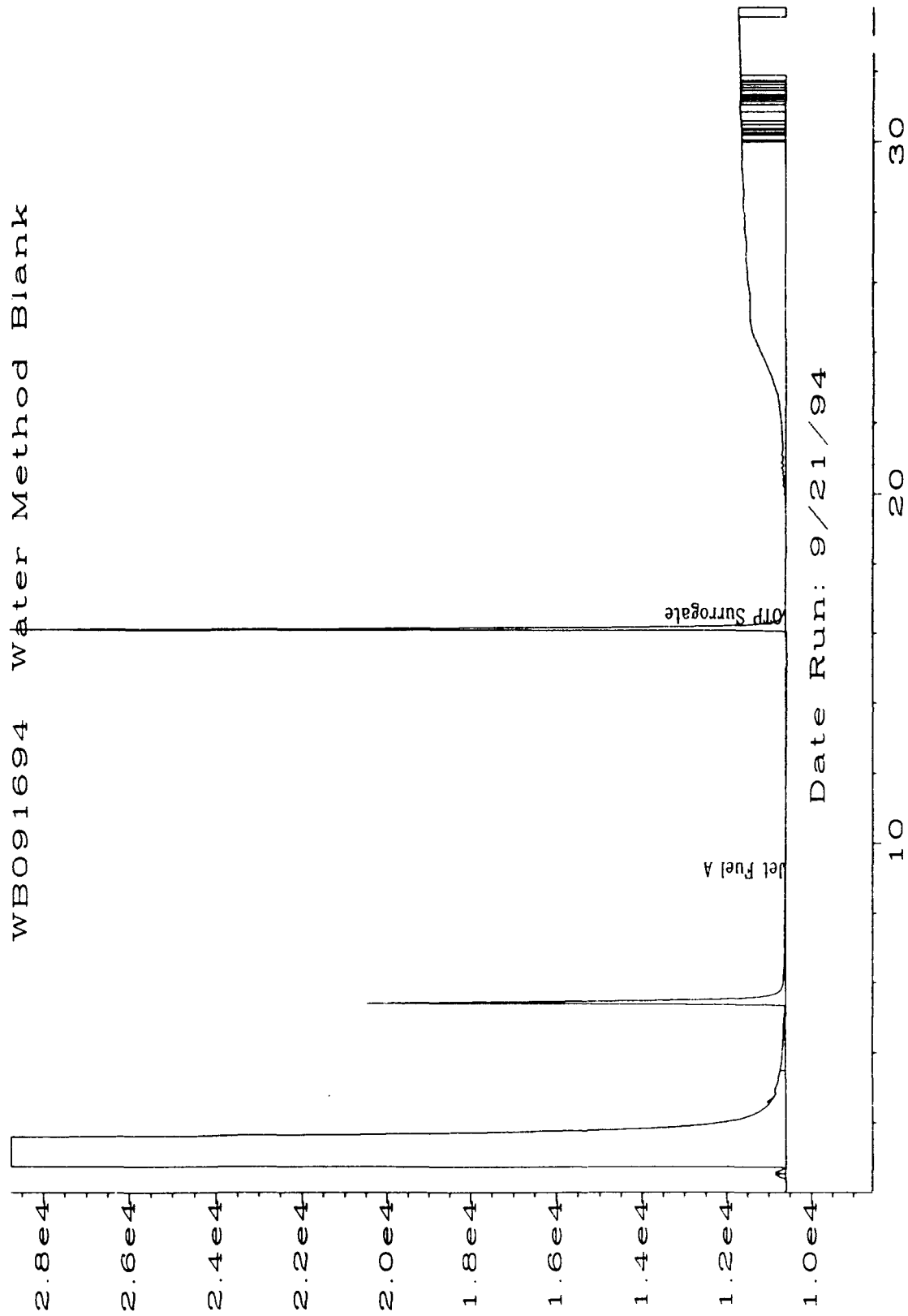
B = TEH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

MDL = Method Detection Limit

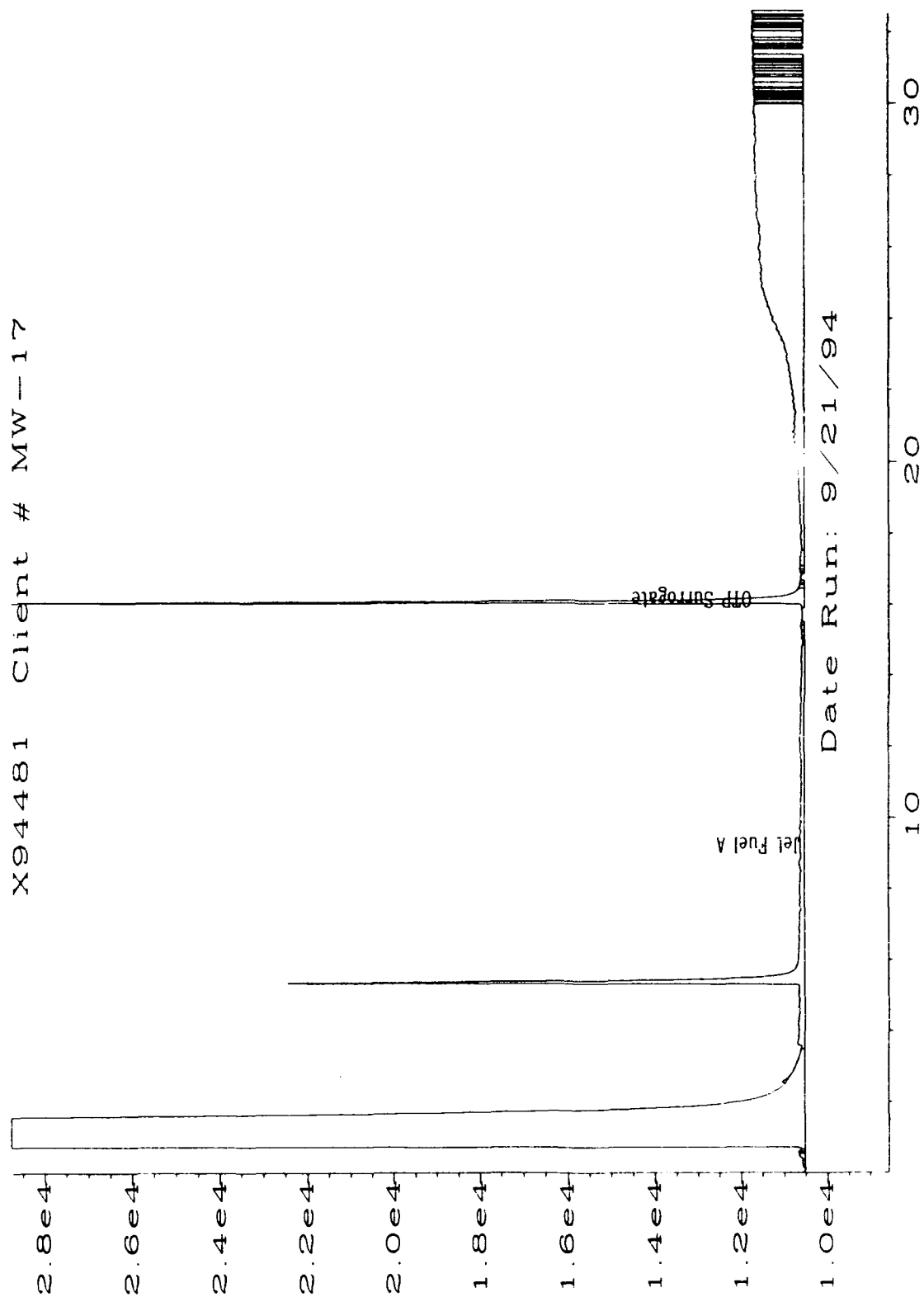

Analyst


Approved



Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\012R0101.D

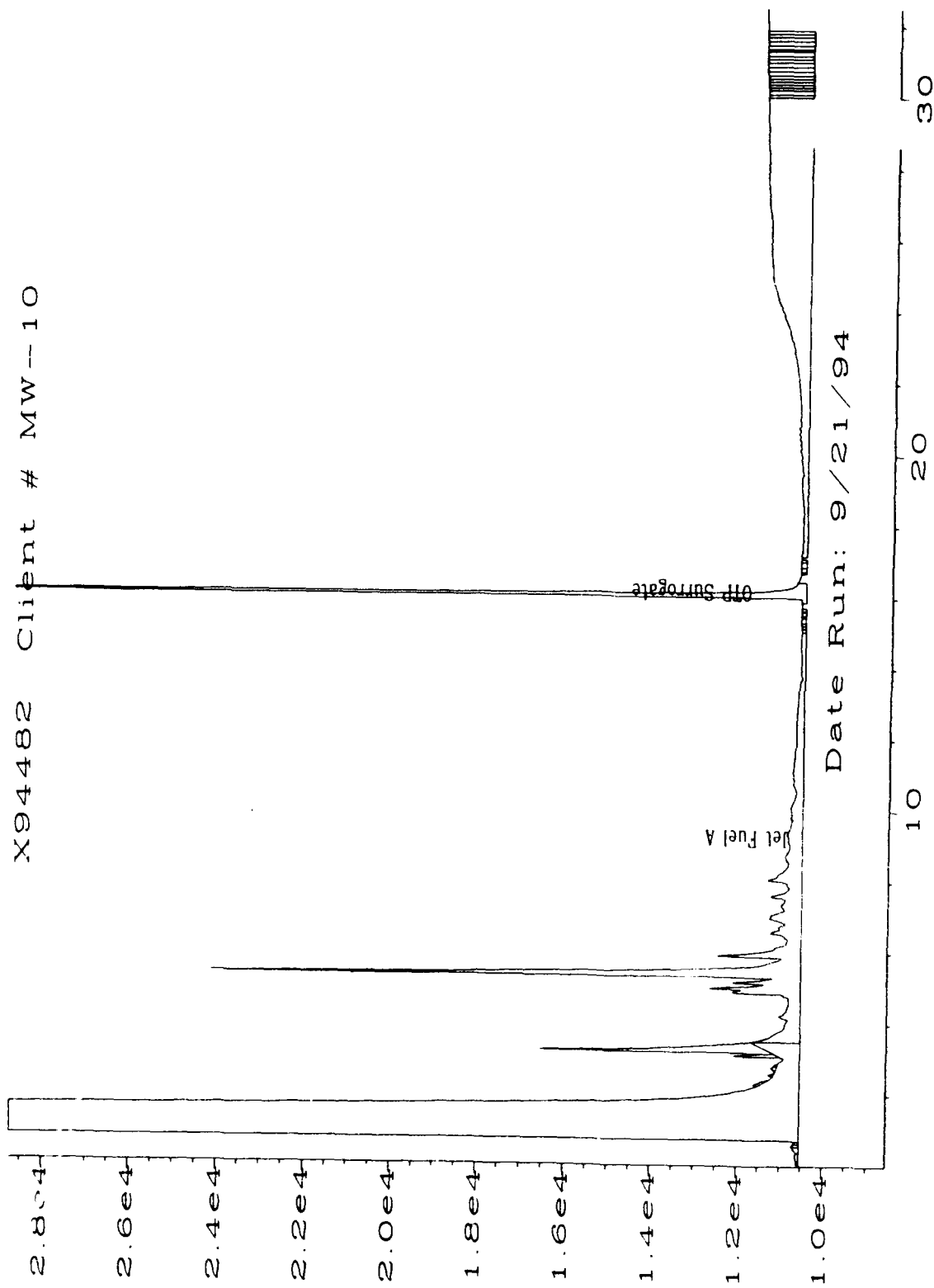
X94481 Client # MW-17



Date Run: 9/21/94

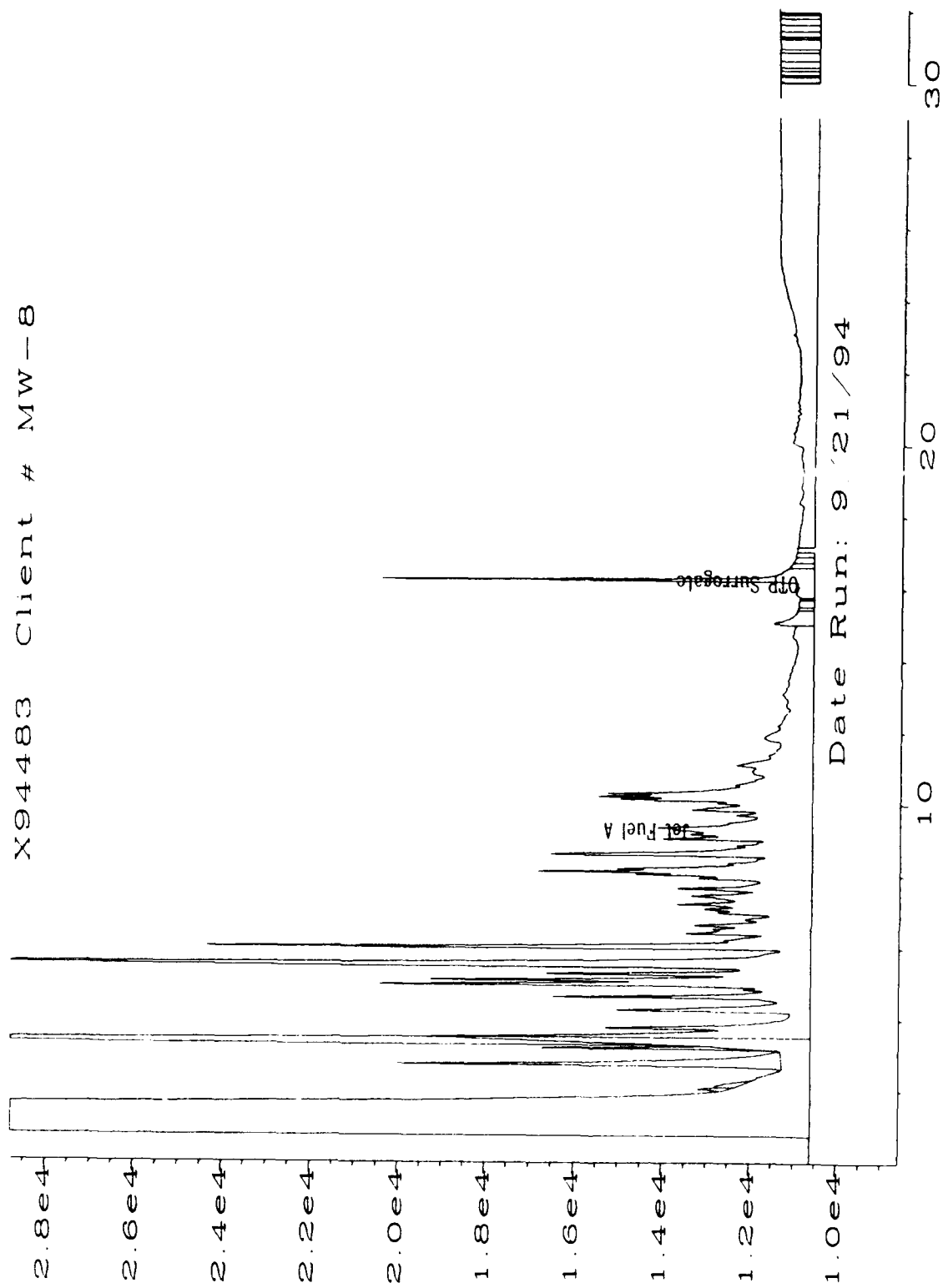
Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\019R0101.D

X944482 Client # MW--10



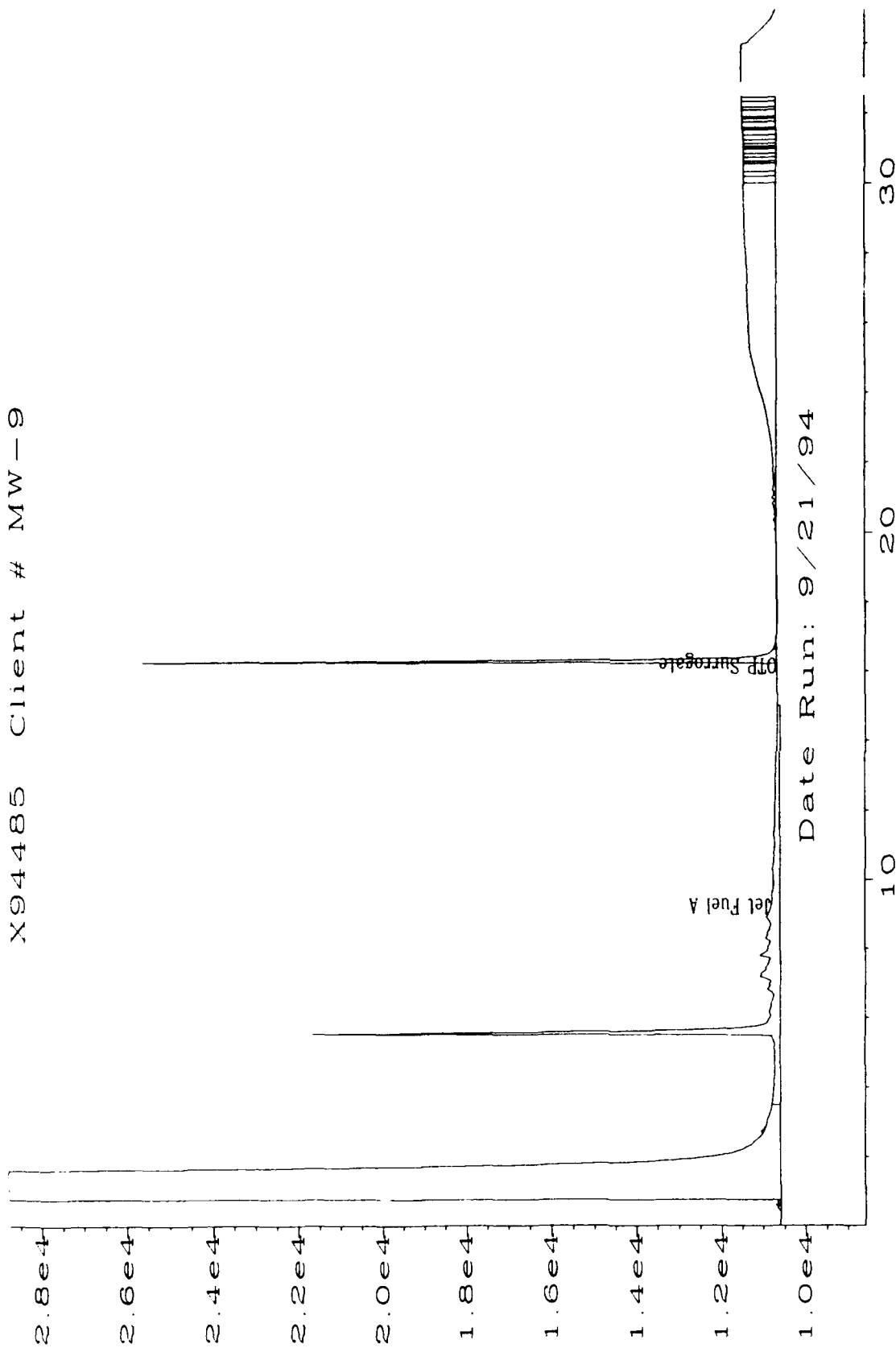
Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\020R0101.D

X94483 Client # MW-8



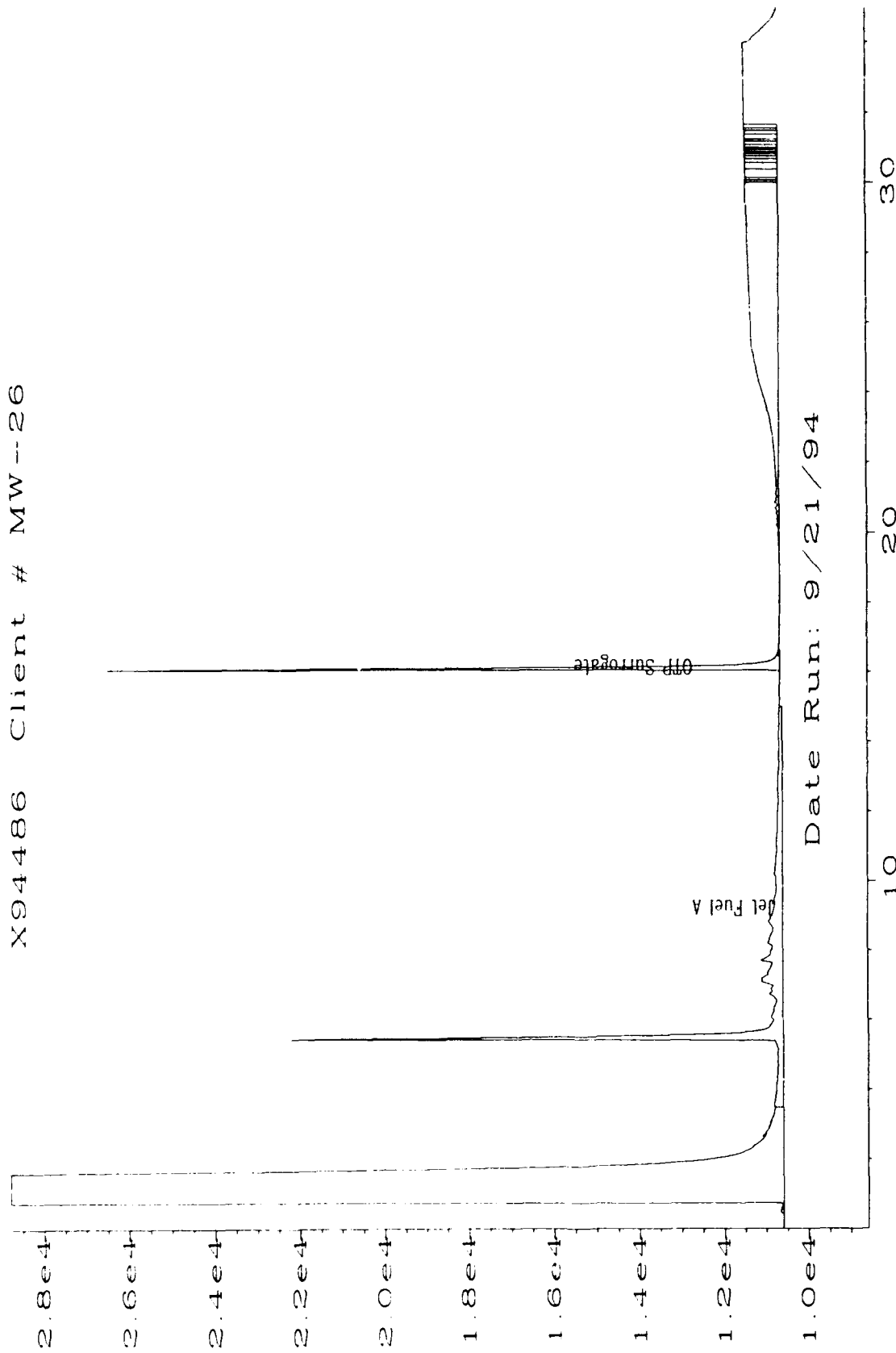
Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\021R0101.D

X944485 Client # MW-9



Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\022R0101.D

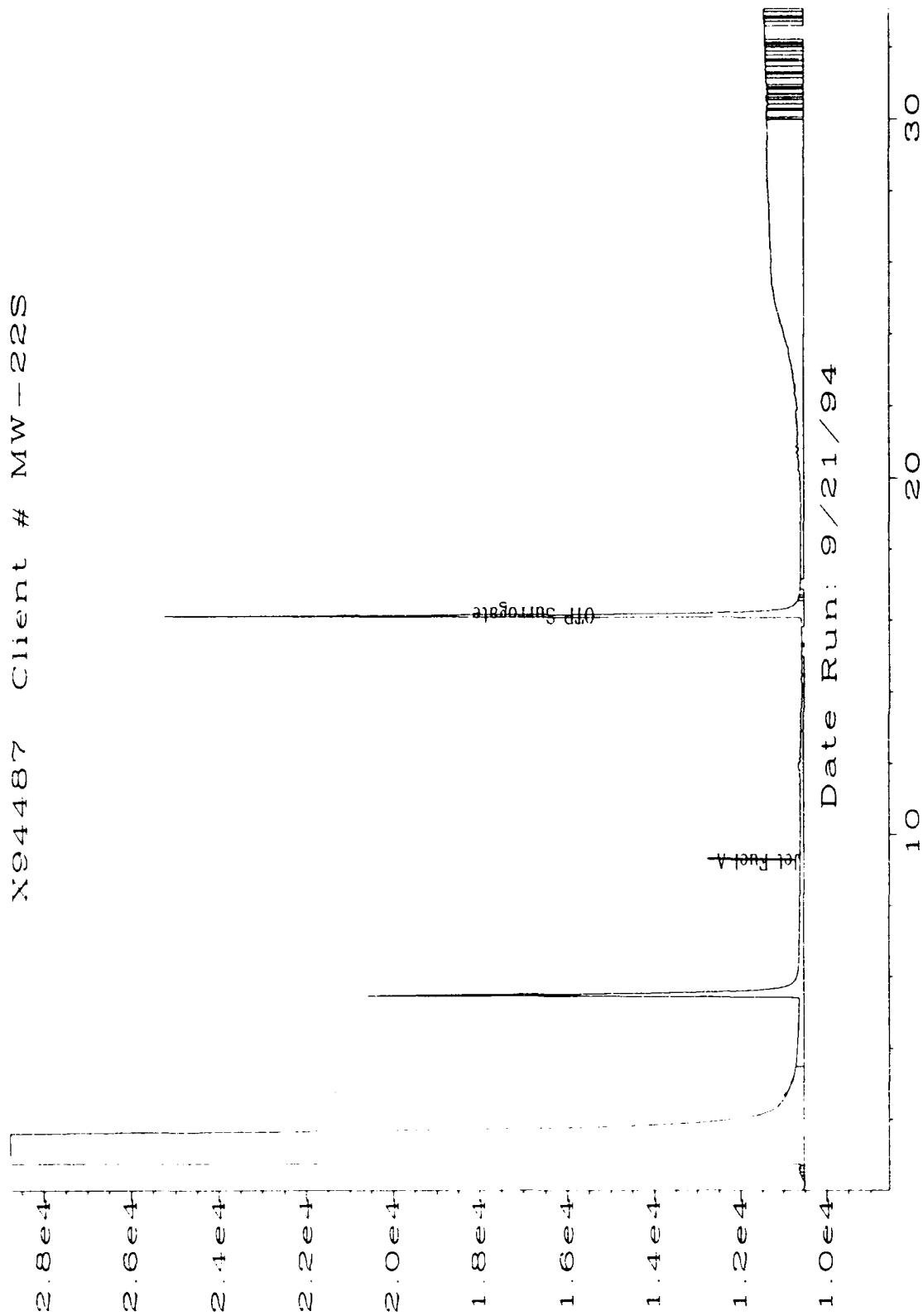
X94486 Client # MW--26



Date Run: 9/21/94

Sig. 2 in C:\HPCHEM\2\DATA\TEH092C\023R0101.D

X944487 Client # MW-22S



Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\024R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL EXTRACTABLE HYDROCARBONS (TEH)
Laboratory Control Sample (LCS)

LCS Number : LCS092094 Client Project Number : Madison Ang
Date Prepared : 9/21/94 Lab Project Number : 94-3516
Date Analyzed : 9/22/94 Matrix : Water
Sequence Number : TEH0920 Method Number : 3500/Mod. 8015

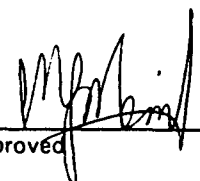
<u>Compound Name</u>	<u>Theoretical Concentration</u> <u>mg/L</u>	<u>LCS Concentration</u> <u>mg/L</u>	<u>QC Limit</u> <u>mg/L</u>
Jet Fuel A	2000	2706	1200-2800

QUALIFIERS

U = TEH analyzed for but not detected.
B = TEH found in blank as well as sample (blank data should be compared).
E = Extrapolated value.
NA = Not Available.



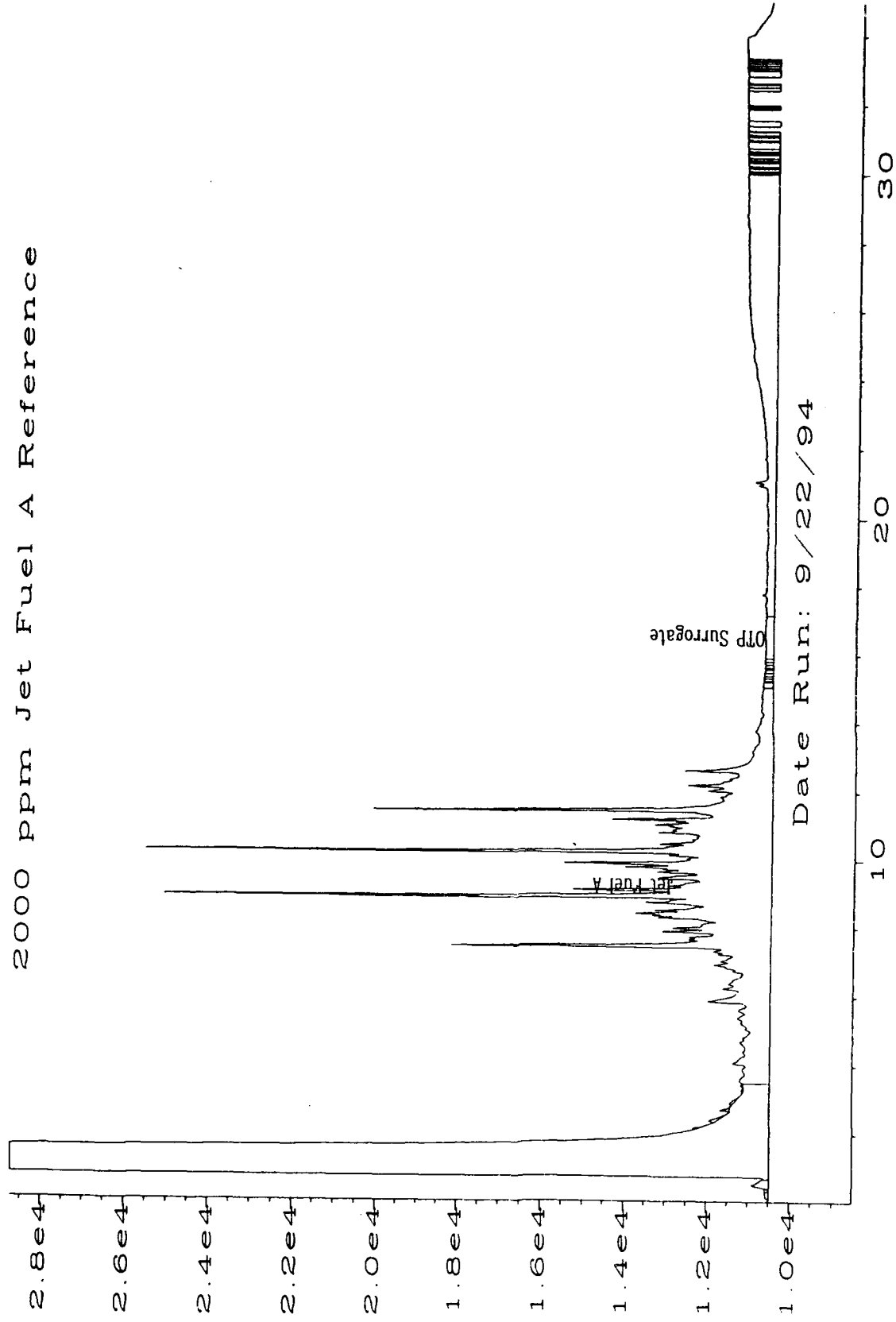
Analyst



Approved

LC5092094

2000 ppm Jet Fuel A Reference



Sig. 2 in C:\HPCHEM\2\DATA\TEH0920\042R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303)425-6021

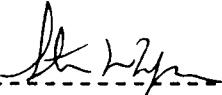
Methane Data Report

Date Sampled : 09/14/94 Client Project No.: Madison ANG
Date Received : 09/15/94 Lab Project No. : 94-3516
Date Prepared : 09/28/94 Dilution Factor : see below
Date Analyzed : 09/28/94 Method : RSKSOP-175
Matrix : Water

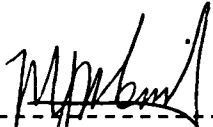
Evergreen Sample # -----	Client Sample # -----	Matrix -----	Concentration mg/L -----	EDL* mg/L -----
MB092894	Method Blank	Water	U	0.001 (DF=1)
x94481	MW-17	Water	U	0.001 (DF=1)
x94482	MW-10	Water	5.54	0.005 (DF=5)
x94483	MW-8	Water	11.74	0.001 (DF=1)
x94485	MW-9	Water	0.003	0.001 (DF=1)
x94487	MW-22S	Water	0.004	0.001 (DF=1)

QUALIFIERS:

U = Compound analyzed for, but not detected above the
Estimated Detection Limit.
B = Compound also found in the blank, blank data should be
compared.
* = Indicates the Estimated Detection Limit.
E = Extrapolated value.

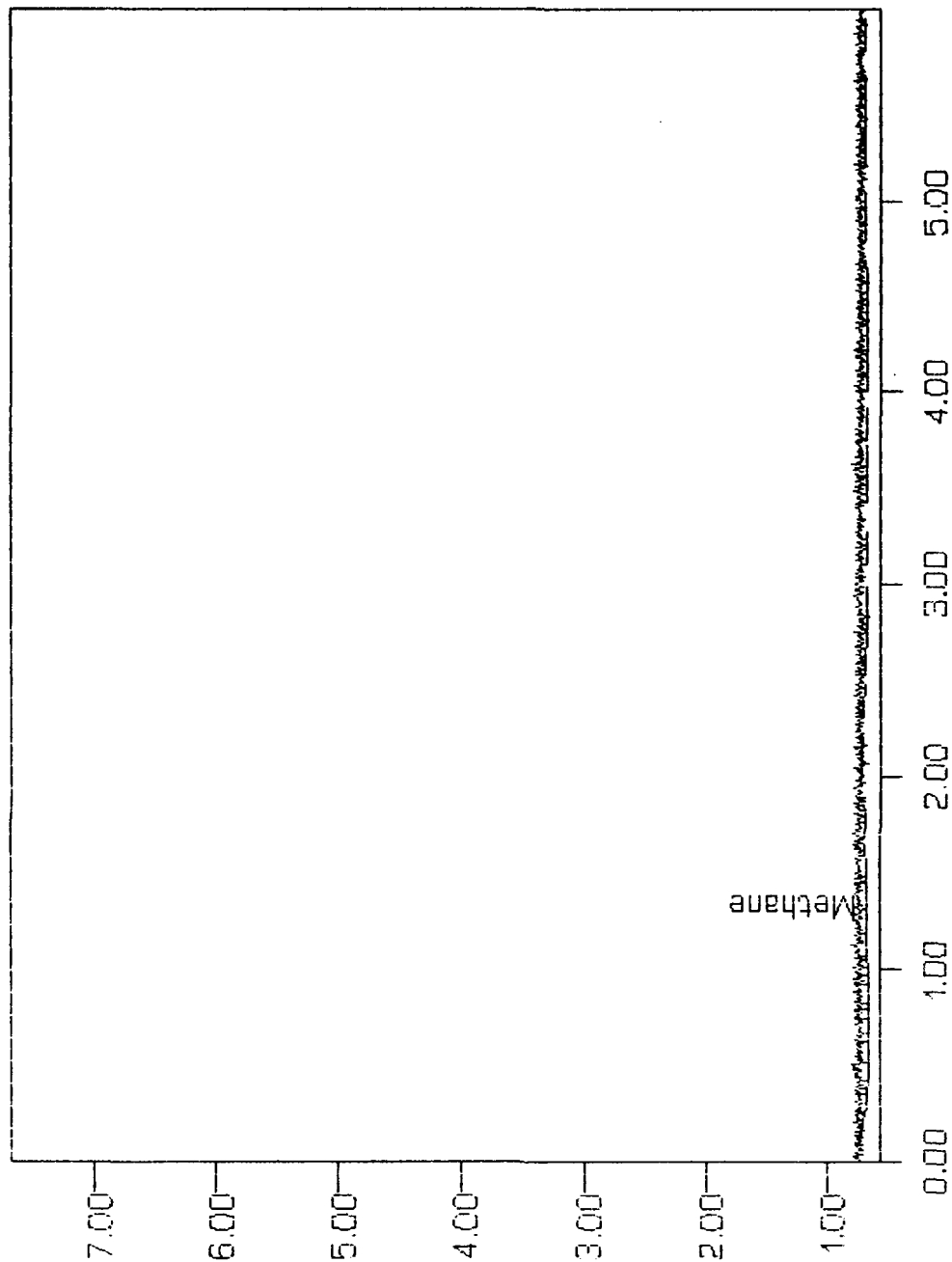


Analyst



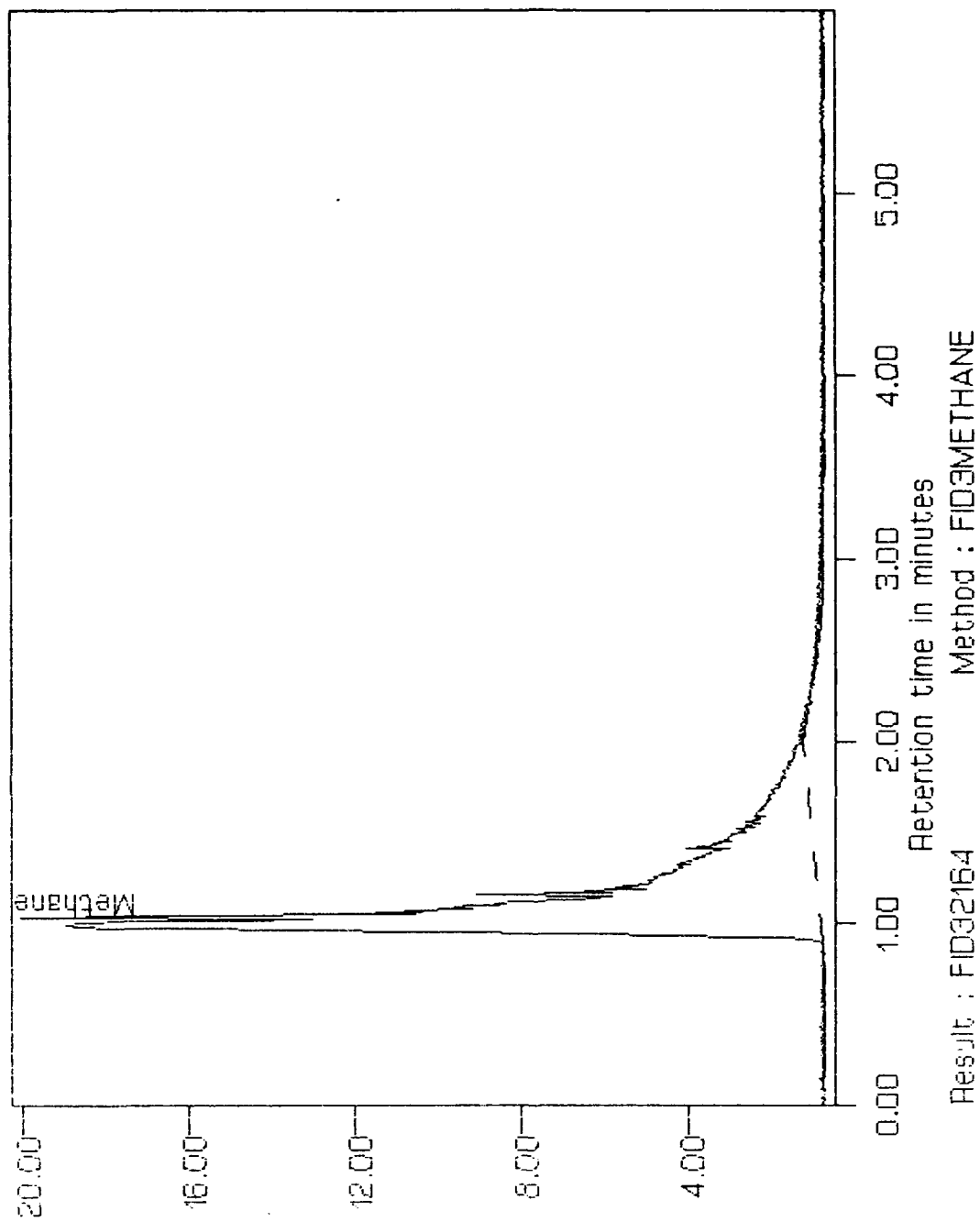
Approved

Sample : MB092694 Method Blank Injected : WED SEP 28, 1994 1:10:34 PM



Result : FID32152
Retention time in minutes
Method : FID3METHANE

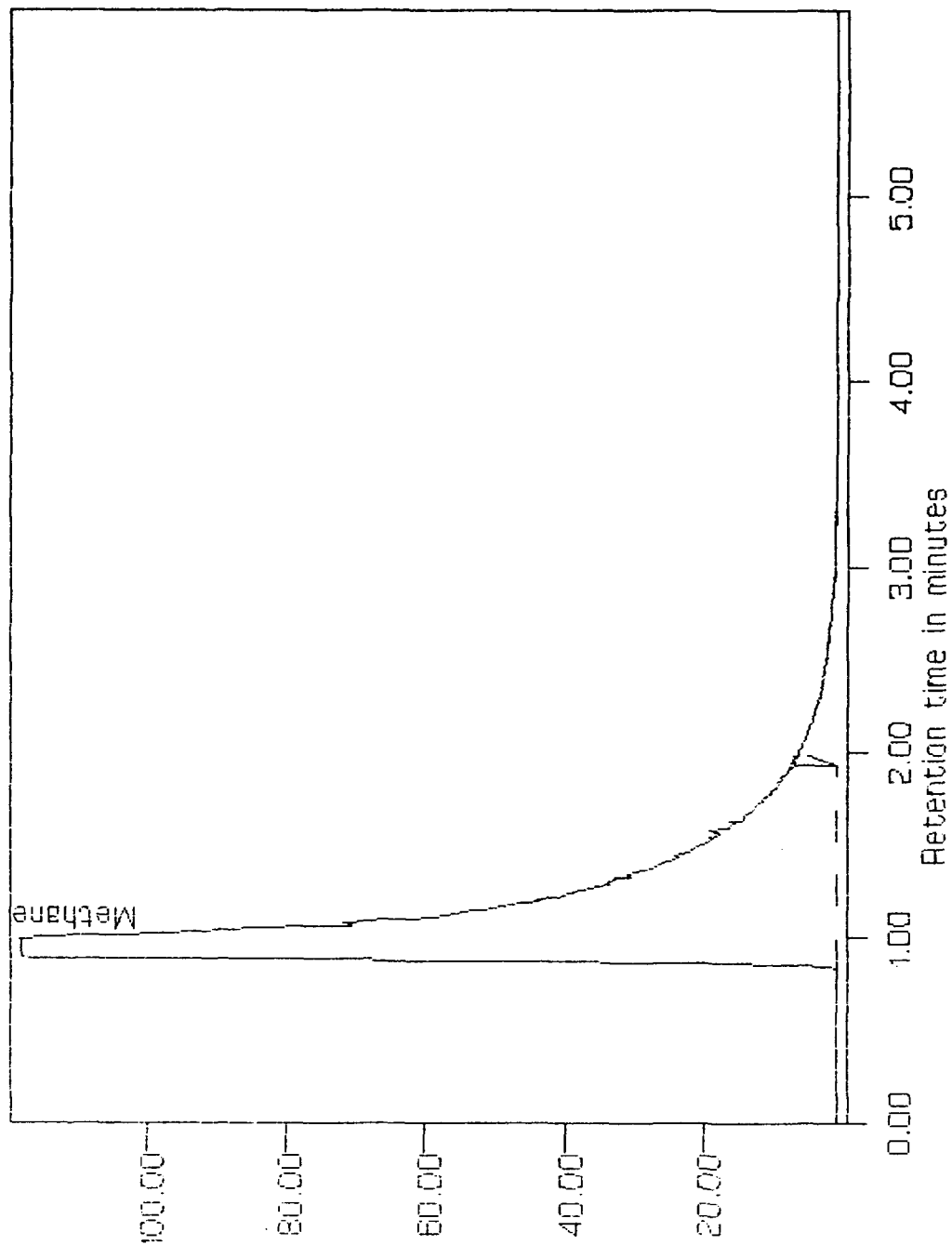
Sample : X94482 @ 76.2 F DF=5 Cl. # MW-10 Injected : WED SEP 28, 1994



Result : FID32164

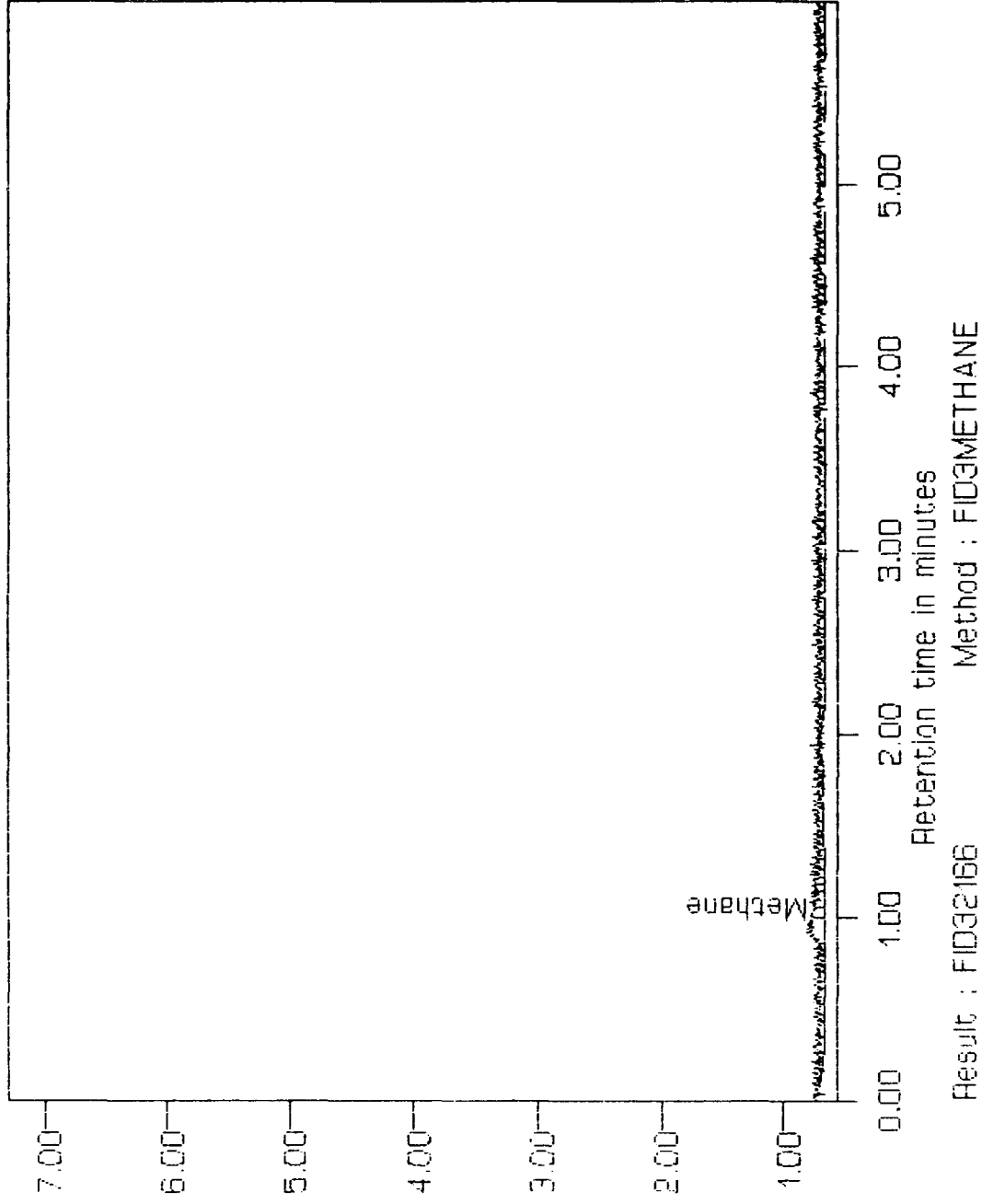
Method : FID3METHANE

Sample : x94483 @ 79.2 F Clc : MW-8 Injected : WED SEP 28, 1994 3:01

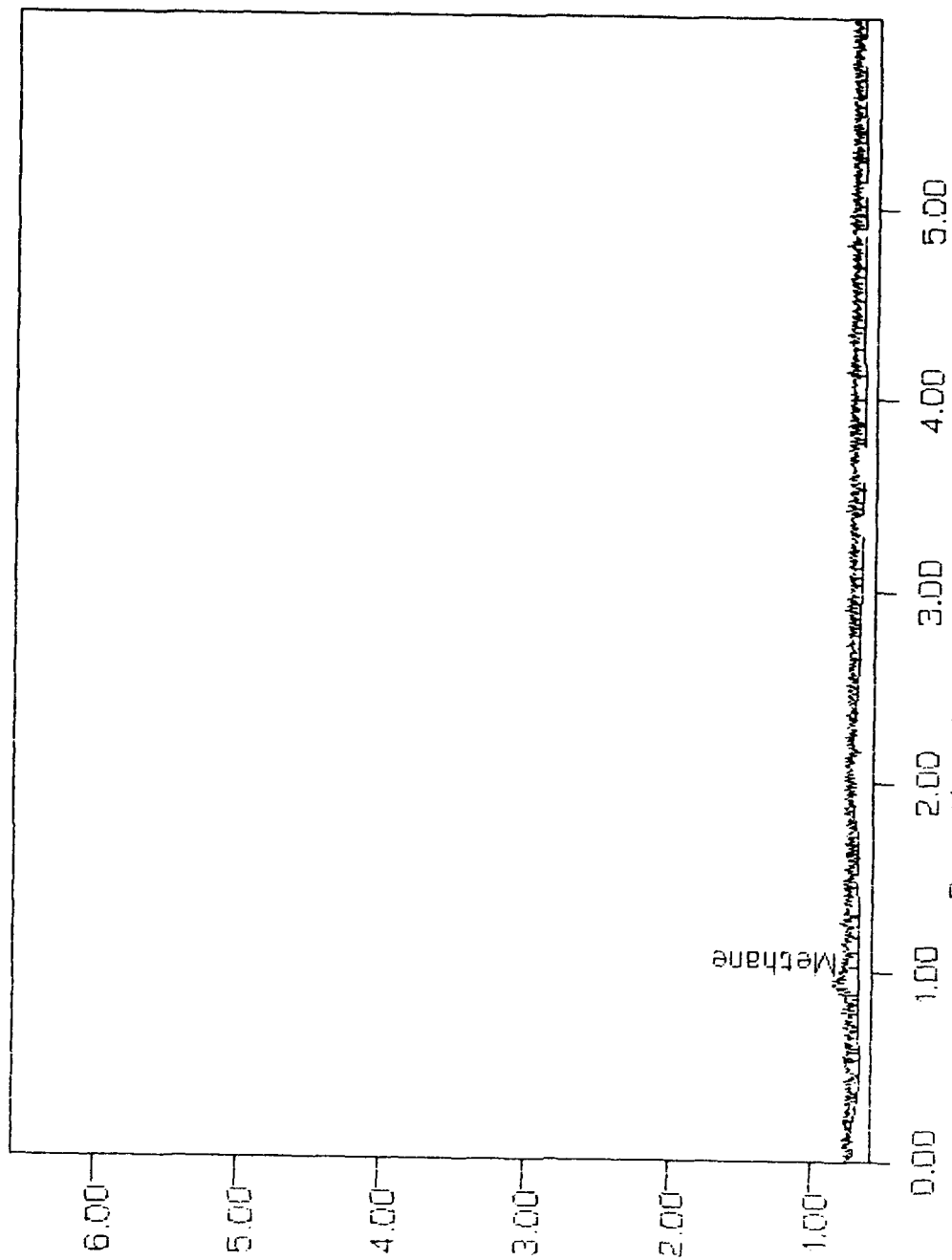


Result : FID32165 Method : FID3METHANE

Sample : x94485 @ 80.2 Client # MW-9 Injected : WED SEP 28, 1994 3:47:5



Sample : x94487 @ 60.6 Client # MW-22S Injected : WED SEP 28, 1994 5:11



Retention time in minutes

Method : FID3METHANE

Result : FID32167

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303)425-6021

Anions

Date Sampled : 9/14/94 Client Project ID. : Madison ANG
Date Received : 9/15/94 Lab Project No. : 94-3516
Date Prepared : 9/15/94 Method : EPA 300.0
Date Analyzed : 9/15/94 Matrix : Water

<u>Evergreen</u> <u>Sample #</u>	<u>Client</u> <u>Sample ID</u>	<u>Nitrite as N (mg/L)</u>
X94481	MW-17	<0.076
X94482	MW-10	<0.076
X94483	MW-8	<0.076
X94485	MW-9	<0.076
X94487	MW-22S	<0.076
X94487 Dup	MW-22S Dup	<0.076
Method Blank		<0.076

Quality Assurance *

		<u>Spike</u> <u>Amount</u> <u>(mg/L)</u>	<u>Sample</u> <u>Result</u> <u>(mg/L)</u>	<u>Spike</u> <u>Result</u> <u>(mg/L)</u>	<u>%</u> <u>Recovery</u>
X94481	MW-17	10.0	<0.250	9.76	97.6
Matrix Spike					
X94481	MW-17	10.0	<0.250	9.92	99.2
Matrix Spike Duplicate					
MS/MSD	RPD				1.63
X94487/X94487 Dup	RPD				NC

* = Quality assurance results reported as nitrite (NO₂).

NC = Not calculated because sample and/or duplicate result
below detection limit.

Debra J. Byrne
Analyst

[Signature]
Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Anions

Date Sampled : 9/14/94
Date Received : 9/15/94
Date Prepared : 9/15/94
Date Analyzed : 9/15/94

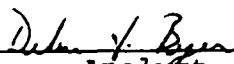
Client Project ID. : Madison ANG
Lab Project No. : 94-3516
Method : EPA 300.0
Matrix : Water

<u>Evergreen Sample #</u>	<u>Client Sample ID</u>	<u>Nitrate as N (mg/L)</u>
X94481	MW-17	0.262
X94482	MW-10	<0.056
X94483	MW-8	<0.056
X94485	MW-9	1.39
X94487	MW-22S	0.709
X94487 Dup	MW-22S Dup	0.702
Method Blank		<0.056

Quality Assurance *

	<u>Spike Amount (mg/L)</u>	<u>Sample Result (mg/L)</u>	<u>Spike Result (mg/L)</u>	<u>% Recovery</u>
X94481 MW-17 Matrix Spike	10.0	1.48	9.91	87.5
X94481 MW-17 Matrix Spike Duplicate	10.0	1.48	10.3	91.3
MS/MSD RPD				4.25
X94487/X94487 Dup RPD				0.96

* = Quality assurance results reported as nitrate (NO₃).



Analyst



Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Anions

Date Sampled : 9/14/94 Client Project ID. : Madison ANG
Date Received : 9/15/94 Lab Project No. : 94-3516
Date Prepared : 9/15/94 Method : EPA 300.0
Date Analyzed : 9/15/94 Matrix : Water

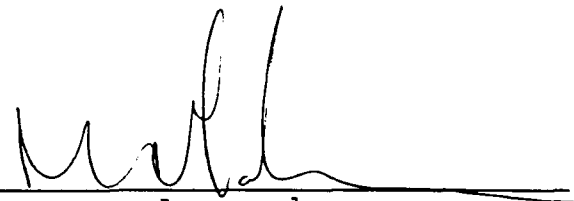
<u>Evergreen</u> <u>Sample #</u>	<u>Client</u> <u>Sample ID</u>	<u>Chloride (mg/L)</u>
X94481	MW-17	3.19
X94482	MW-10	4.95
X94483	MW-8	6.62
X94485	MW-9	26.0
X94487	MW-22S	33.6
X94487 Dup	MW-22S Dup	34.5
Method Blank		<0.250

Quality Assurance

		<u>Spike</u> <u>Amount</u> <u>(mg/L)</u>	<u>Sample</u> <u>Result</u> <u>(mg/L)</u>	<u>Spike</u> <u>Result</u> <u>(mg/L)</u>	<u>%</u> <u>Recovery</u>
X94481	MW-17	10.0	3.19	11.8	86.2
Matrix Spike					
X94481	MW-17	10.0	3.19	12.4	92.6
Matrix Spike Duplicate					
MS/MSD	RPD				7.16
X94487/X94487 Dup	RPD				2.41



Analyst



Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303)425-6021

Anions

Date Sampled : 9/14/94 Client Project ID. : Madison ANG
Date Received : 9/15/94 Lab Project No. : 94-3516
Date Prepared : 9/15/94 Method : EPA 300 c
Date Analyzed : 9/15/94 Matrix : Water

<u>Evergreen</u> <u>Sample #</u>	<u>Client</u> <u>Sample ID</u>	<u>Sulfate (mg/L)</u>
X94481	MW-17	15.2
X94482	MW-10	1.56
X94483	MW-8	1.26
X94485	MW-9	20.0
X94487	MW-22S	38.5
X94487 Dup	MW-22S Dup	38.8
Method Blank		<0.250

Quality Assurance

	<u>Spike</u> <u>Amount</u> <u>(mg/L)</u>	<u>Sample</u> <u>Result</u> <u>(mg/L)</u>	<u>Spike</u> <u>Result</u> <u>(mg/L)</u>	<u>%</u> <u>Recovery</u>
X94481 MW-17 Matrix Spike	10.0	15.2	24.7	95.0
X94481 MW-17 Matrix Spike Duplicate	10.0	1.52	25.0	98.1
MS/MSD RPD				3.21
X94487/X94487 Dup RPD				0.80



Analyst



Approved

3516tm.25

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Miscellaneous Analyses

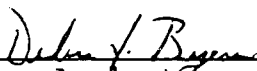
Date Sampled : 9/14/94	Client Project ID. : Madison ANG
Date Received : 9/15/94	Lab Project No. : 94-3516
Date Prepared : 9/16/94	Matrix : 5.00 mgCaCO ₃ /L
Date Analyzed : 9/16/94	Method : EPA 310.1

Evergreen Sample #	Client Sample ID	Matrix	Total Alkalinity (mgCaCO ₃ /L)
X94481	MW-17	Water	281
X94481 Dup	MW-17 Dup	Water	279
X94482	MW-10	Water	287
X94483	MW-8	Water	565
X94485	MW-9	Water	401
X94487	MW-22S	Water	313

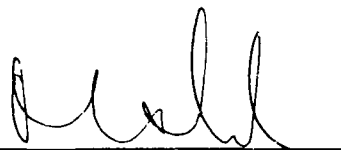
Method Blank (9-16-94) <5.00

Quality Assurance

	True Value (mgCaCO ₃ /L)	Result (mgCaCO ₃ /L)	% Recovery
Spex Reference Lot WP1290 Minerals	24.2	21.7	89.7
X94481/X94481 Dup RPD			0.71



Analyst



Approved

HUFFMAN

LABORATORIES, INC.

Quality Analytical Services Since 1936

4630 Indiana Street • Golden, CO 80403

NON-CLP ANALYSIS RESULTS

Date: 10/26/94 rev01
Lab Name: Huffman Labs Client: Evergreen Analytical
Contact: Sue Zeller Contact: Mark Mensik
Sample Matrix: soils Huffman Lab #: 271294

Client Smp#	Lab ID #	Element/Compound	Dilution Factor	Results	Units	Prep Date	Analysis Date	Sample Size (g)	Method #	Instrument ID
ELS-MW26-24	27129401	TC	NA	1.43	%	NA	09/19/94	0.642	Leco CR12	#7
ELS-MW26-24	27129401	TC	NA	1.39	%	NA	09/19/94	1.299	Leco CR12	#7
ELS-MW26-24	27129401	CC	NA	1.01	%	NA	10/05/94	0.108	COU-02	#3
ELS-MW26-24	27129401	CC	NA	1.09	%	NA	10/05/94	0.071	COU-02	#3
ELS-MW26-24	27129401	TOC	NA	0.42	%	NA	NA	NA	by calc	NA
ELS-MW26-24	27129401	TOC	NA	0.30	%	NA	NA	NA	by calc	NA

Samples analyzed and results reported on as as received basis.

Soil samples are not homogeneous.

TC detection limit = 0.05%

CC detection limit = 0.02%

TOC detection limit = 0.05%

Client Smp#	Lab ID #	Element/Compound	Dilution Factor	Results	Units	Prep Date	Analysis Date	Sample Size (ml)	Method #	Instrumr
MW-UNK	27129402	DOC	NA	5.5	mg/L	NA	10/08/94	10	SM53100	#6
MW-9	27129403	DOC	NA	9.6	mg/L	NA	10/08/94	10	SM53100	#6
MW-9	27129403	DOC	NA	11.1	mg/L	NA	10/08/94	10	SM53100	#6
MW-10	27129404	DOC	NA	8.9	mg/L	NA	10/08/94	10	SM53100	#6
MW-13	27129405	DOC	NA	2.1	mg/L	NA	10/08/94	10	SM53100	#6
MW-16	27129406	DOC	NA	38.0	mg/L	NA	10/08/94	10	SM53100	#6

TOC detection limit = 0.5 mg/L

Evergreen Analytical Sample Log Sheet

Project # 94-3553

Date(s) Sampled: 09/16/94 COC _____

Date Due: 10/03/94

Received: 09/17/94 1100 Holding Time(s): 09/18-NO₂, NO₃, 09/23-TEH, METHANE
09/30-BTEX, TVH, ALKALINITY

Client Project I.D. Madison ANC Rush STANDARD

Client: Engineering Science, Inc.

Shipping Charges N/A

Address: 1700 Broadway Suite 900

E.A. Cooler # 235,361

Denver, CO 80290

Airbill # 9581893016 FEDEX

Contact: Gail Saxton

Custody Seal Intact? Y

Client P.O. 722450.09020

Cooler X Bottles _____

Phone #831-8100 Fax #831-8208

COC Present Y

Sample Tags Present? Y

Sample Tags Listed? Y

Sample(s) Sealed? Y

Special Instructions REPORT ALL SAMPLES IN DRY WEIGHT

Lab ID #	Client ID#	Analysis	Mtx	Btl	Loc
X94666A/B	CPT-1D	BTEX+TMB	W	40V	2
X94669A/B	CPT-5S	BTEX+TMB	W	40V	2
X94670A/B	CPT-5D	BTEX+TMB	W	40V	2
1672A/B	CPT-19S	BTEX+TMB	W	40V	2
X94676A/B	CPT-20	BTEX+TMB	W	40V	2
X94677A	TRIP BLANK	BTEX+TMB	W	40V	2
X94667A/B	WANG-CPT3-5	BTEX (INCLUDES MS/MSD)	S	2WM	2
X94668A	WANG-CPT20-6.8	BTEX	S	2WM	2
X94671A	WANG-CPT10-5.5	BTEX	S	2WM	2
X94673A	WANG-CPT7-7.8	BTEX	S	2WM	2
X94674A	WANG-CPT21-6	BTEX	S	2WM	2
X94675A	WANG-CPT9-5.5	BTEX	S	2WM	2
X94666C/D	CPT-1D	TVH	W	40V	2
X94669C/D	CPT-5S	"	W	40V	2
X94670C/D	CPT-5D	"	W	40V	2
X94672C/D	CPT-19S	"	W	40V	2
X94676C/D	CPT-20	"	W	40V	2
X94667C/D	WANG-CPT3-5	" (INCLUDES MS/MSD)	S	2WM	2
X94668B	WANG-CPT20-6.8	"	S	2WM	2
X94671B	WANG-CPT10-5.5	"	S	2WM	2
4673B	WANG-CPT7-7.8	"	S	2WM	2

Λ=Sample to be returned

Route GC/MS _____ GC 4 Metals _____ Wet Chem 2 SxPrep 1 Acctg 1
 To MJM 1 SxRec C QA/QC C Sales C File Orig

Custodian/Date: MJM/PLB 9/17/94

Lab ID #	Client ID#	Analysis	Mtx	Btl	Loc
X94674B	WANG-CPT21-6	TVH	S	2WM	2
X94675B	WANG-CPT9-5.5	"	S	2WM	2
X94666J	CPT-1D	TEH	W	1LA	2
X94670J	CPT-5D	"	W	1LA	2
X94671J	CPT-19S	"	W	1LA	2
X94672J	CPT-20	"	W	1LA	2
X94667E/F	WANG-CPT3-5	" (INCLUDES MS/MSD)	S	2WM	2
X94668C	WANG-CPT20-6.8	"	S	2WM	2
X94671C	WANG-CPT10-5.5	"	S	2WM	2
X94673C	WANG-CPT7-7.8	"	S	2WM	2
X94674C	WANG-CPT21-6	"	S	2WM	2
X94675C	WANG-CPT9-5.5	"	S	2WM	2
X94666E-G	CPT-1D	METHANE	W	40V	2
X94669E-G	CPT-5S	"	W	40V	2
X94670E-G	CPT-5D	"	W	40V	2
X94672E-G	CPT-19S	"	W	40V	2
X94676E-G	CPT-20	"	W	40V	2
X94666H	CPT-1D	Cl, NO ₂ , NO ₃ , SO ₄	W	125P	D4
X94669H	CPT-5S	"	W	125P	"
X94670C/D	CPT-5D	"	W	125P	"
X94672C/D	CPT-19S	"	W	125P	"
X94676C/D	CPT-20	"	W	125P	"
X94666	CPT-1D	ALKALINITY	W		"
X94670C/D	CPT-5D	"	W	40V	"
X94672C/D	CPT-19S	"	W	40V	"
X94676C/D	CPT-20	"	W	40V	"
X94666	CPT-1D	DISSOLVED ORGANIC CARBON	W		OUT
X94667	WANG-CPT3-5	TOC (INCLUDES MS/MSD)	S		OUT
X94675	WANG-CPT9-5.5	"	S		OUT

Page 2 of 2 Pages
Project # 94-3553

R=Sample to be returned

Evergreen Analytical Inc.

Page ~~4~~ of 1

COMPANY Engineering Science
ADDRESS 1700 Broadway
CITY Denver STATE CO ZIP 80202
PHONE # 303-931-0100 FAX #

4036 Youngfield
Wheat Ridge, Colorado 80033
(303) 425-6021
FAX (303) 425-6854

COMPANY CONTACT (print) Wall Swenson
PROJECT I.D. Madison Ave
P.O. # 724509020

TURNAROUND REQUIRED* 30 days
*expedited turnaround subject to additional fee

Sampler Name: Saskia Hord
(signature) Saskia Hord
(print) Saskia Hord, Matt Swanson

(print) Saskia Hoed Matt Swanson

#235 + 361
Evergreen Analytical Cooler No.

SAMPLE IDENTIFICATION	DATE SAMPLED	TIME
CPT-20	9/16/99	16:45:10
CPT 20S MP		

Sampler Name: Sally H.

(signature) [Signature]

(print) Sally H.

Evergreen Analytical Cooler No. #235 + 361

No. of Containers _____

MATRIX	ANALYSIS REQUESTED	Notes
Water - Drinking / Discharge / Ground (circle)		
Soil / Solid (circle)		
Sludge/Surry (circle)		
O/V Organic Liquid (circle)		
Multiphase (Identify phase to be analyzed)		
TCLP VOA/BNA/Pest/Herb/Metals (circle)		
VOA 8260/624/524.2 (circle)		
BNA 8270/625 (circle)		
Pesticides 8080/608 (circle)		
Pest/PCBs 8080/608/508 (circle)		
Herbicides 8150/515 (circle)		
PCB 8080/PCB Screen (circle)		
BTEX 8020/602 (circle) MTBE (circle)		
TRPH 418.1/Oil & Grease 413.1 (circle)		
TVH 8015mod. (Gasoline)		
TEH 8015mod. (Diesel)		
Total Metals-DW/NPDES/SWB46 (circle & list metals below)		
Dissolved Metals - DW/SWB46 (circle & list metals below)		
Methylene		
Dikeminy		
Nitrate/nitrite		
Chloride		

Instructions:

all samples packed on ice.

Relinquished by: (Signature) <i>Sevula A. [Signature]</i>	Date/Time 9/16 5:45 PM	Received by: (Signature) FEDEX	Date/Time 9/16 5:45 PM	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by: (Signature) <i>[Signature]</i>	Date/Time 9/17 1:00 PM	Received by: (Signature) <i>[Signature]</i>	Date/Time 9/17 1:00 PM	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

Evergreen Analytical Sample Receipt/Check-in Record

Date & Time Rec'd: 9/14/94 1100 Shipped Via: Fed Ex 95818936
(Airbill # if applicable)

Client: Env. Health Science

Client Project ID(s): Madison ANG

EAL Project #(s): 94- 3553 EAL Cooler(s): (Y) N

Cooler# 361 235

Ice packs Y N Y N Y N Y N Y N

Temperature °C 6.0 4.0

Y N N/A

1. Custody seal(s) present:
Seals on cooler intact
Seals on bottle intact

2. Chain of Custody present:

3. Containers broken or leaking:
(Comment on COC if Y)

4. Containers labeled:

5. COC agrees w/ bottles received:
(Comment on COC if N)

6. COC agrees w/ labels:
(Comment on COC if N)

7. Headspace in VOA vials-waters only
(comment on COC if Y)

8. VOA samples preserved:

9. pH measured on metals, cyanide or phenolics*:
List discrepancies
*Non-EAL provided containers only, water samples only.

10. Metal samples present:
Total _____, Dissolved _____
D or PD to be filtered:
T,TR,D,PD to be Preserved:

11. Short holding times:
Specify parameters

12. Multi-phase sample(s) present:

13. COC signed w/ date/time:

Comments:

(Additional comments on back)
Custodian Signature/Date: Mary O'Brien
9/17/94

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303)425-6021

Methane Data Report

Date Sampled : 09/16/94 Client Project No.: Madison ANG
Date Received : 09/17/94 Lab Project No. : 94-3553
Date Prepared : 10/01/94 Dilution Factor : see below
Date Analyzed : 10/01/94 Method : RSKSOP-175
 Matrix : Water

Evergreen Sample #	Client Sample #	Matrix	Concentration mg/L	EDL* mg/L
-----	-----	-----	-----	-----
MB100194	Method Blank	Water	U	0.001 (DF=1)
x94666	CPT-1D	Water	U	0.001 (DF=1)
x94669	CPT-5S	Water	0.17	0.01 (DF=10)
x94670	CPT-5D	Water	0.13	0.01 (DF=10)
x94672	CPT-19S	Water	0.02	0.01 (DF=10)
x94676	CPT-20	Water	U	0.001 (DF=1)

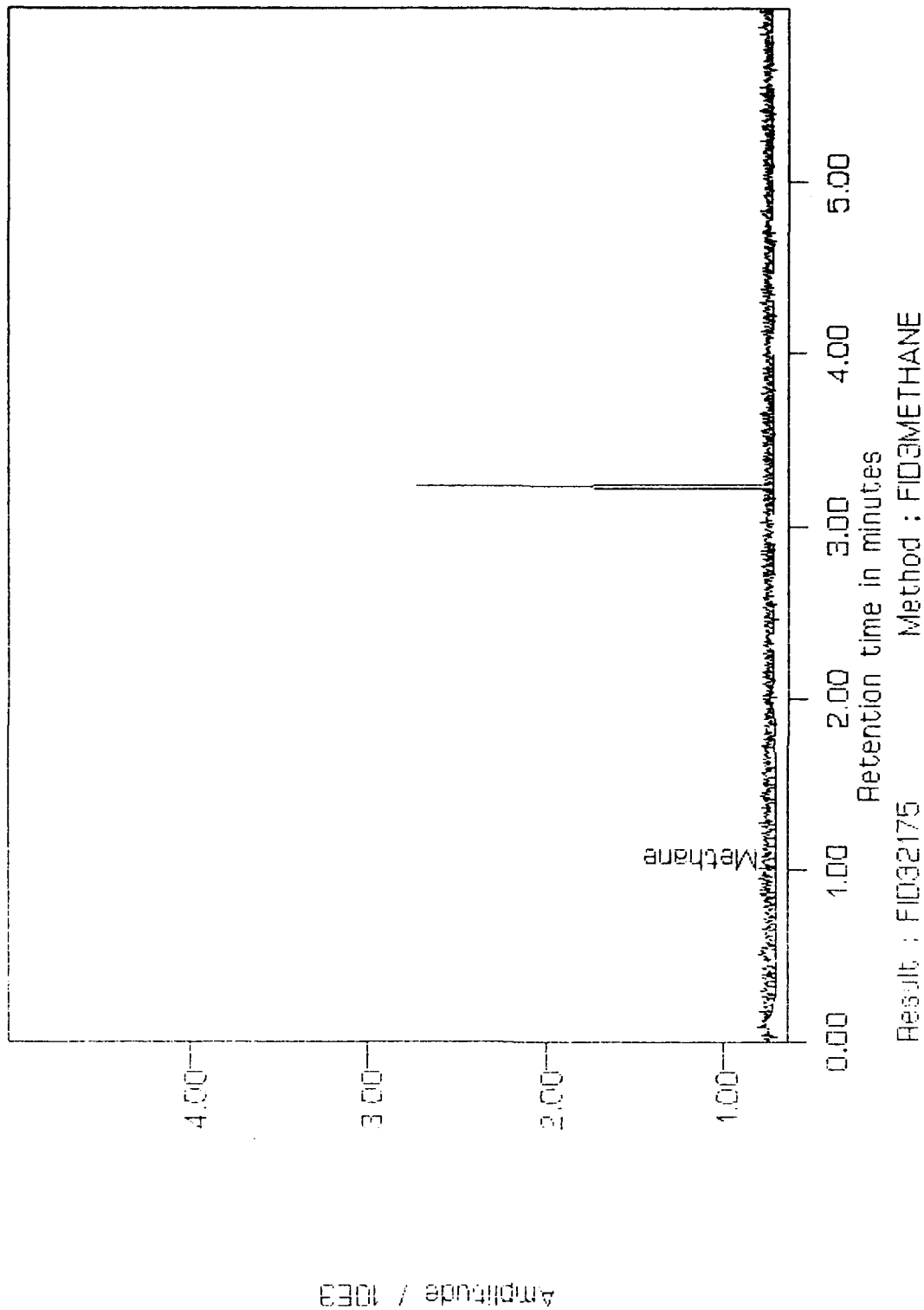
QUALIFIERS:

U = Compound analyzed for, but not detected above the
Estimated Detection Limit.
B = Compound also found in the blank, blank data should be
compared.
* = Indicates the Estimated Detection Limit.
E = Extrapolated value.

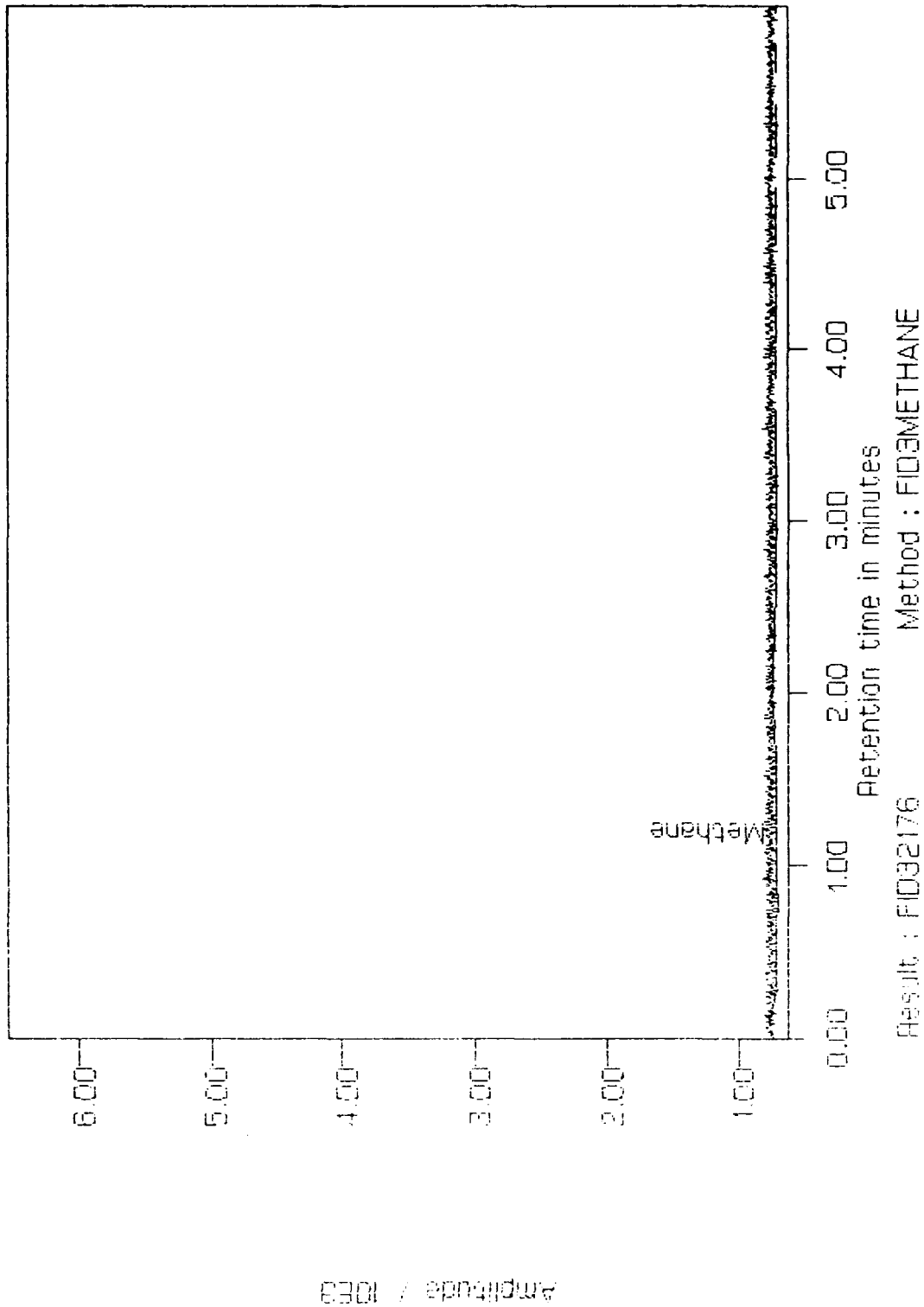
Analyst

Approved

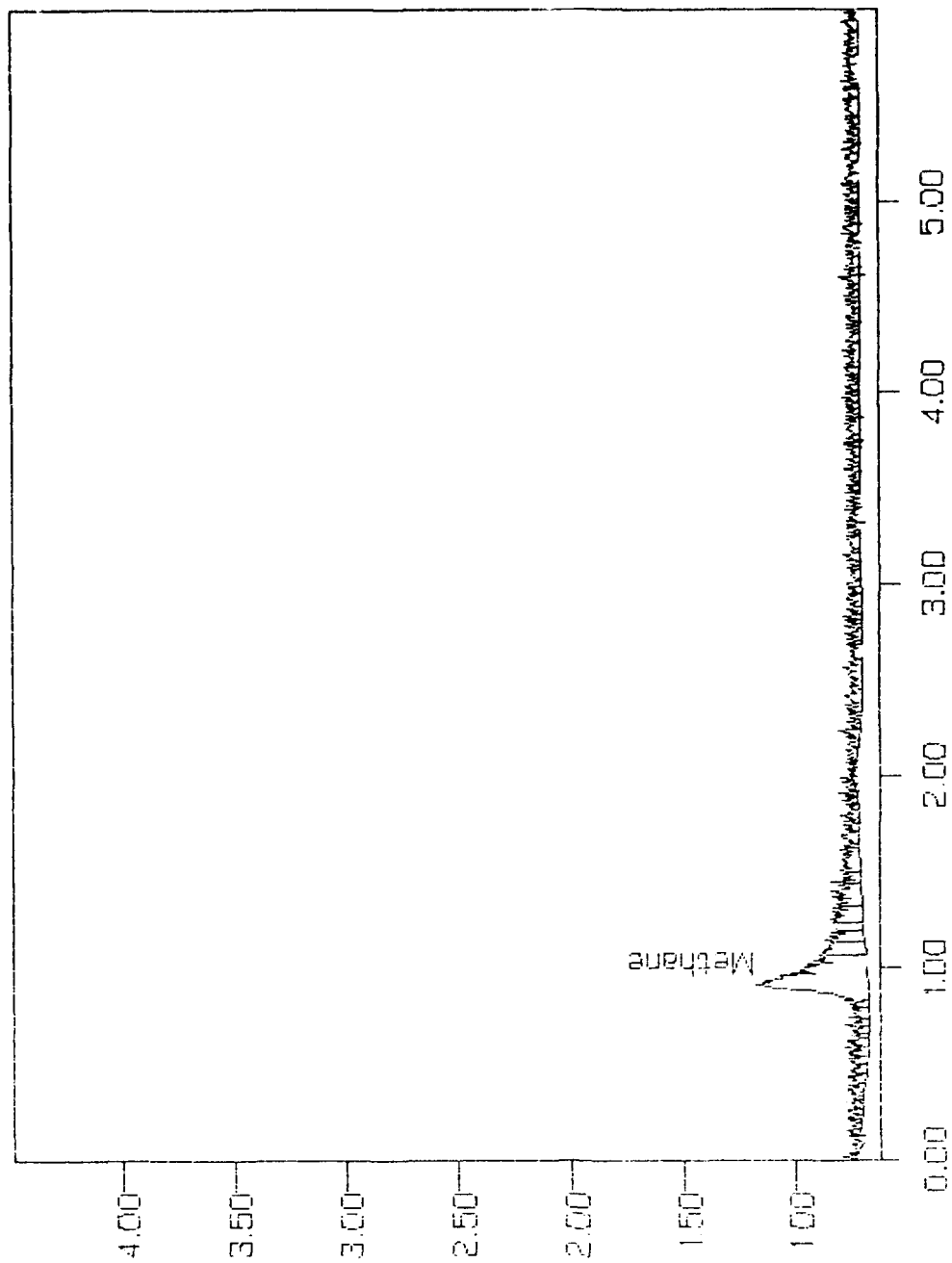
Sample : MB100194 Method Blank Injected : SAT OCT 1, 1994 5:54:41 PM



Sample : x94666 @ 78.4 F Client # CPT-1D Injected : SAT OCT 1, 1994 6:2

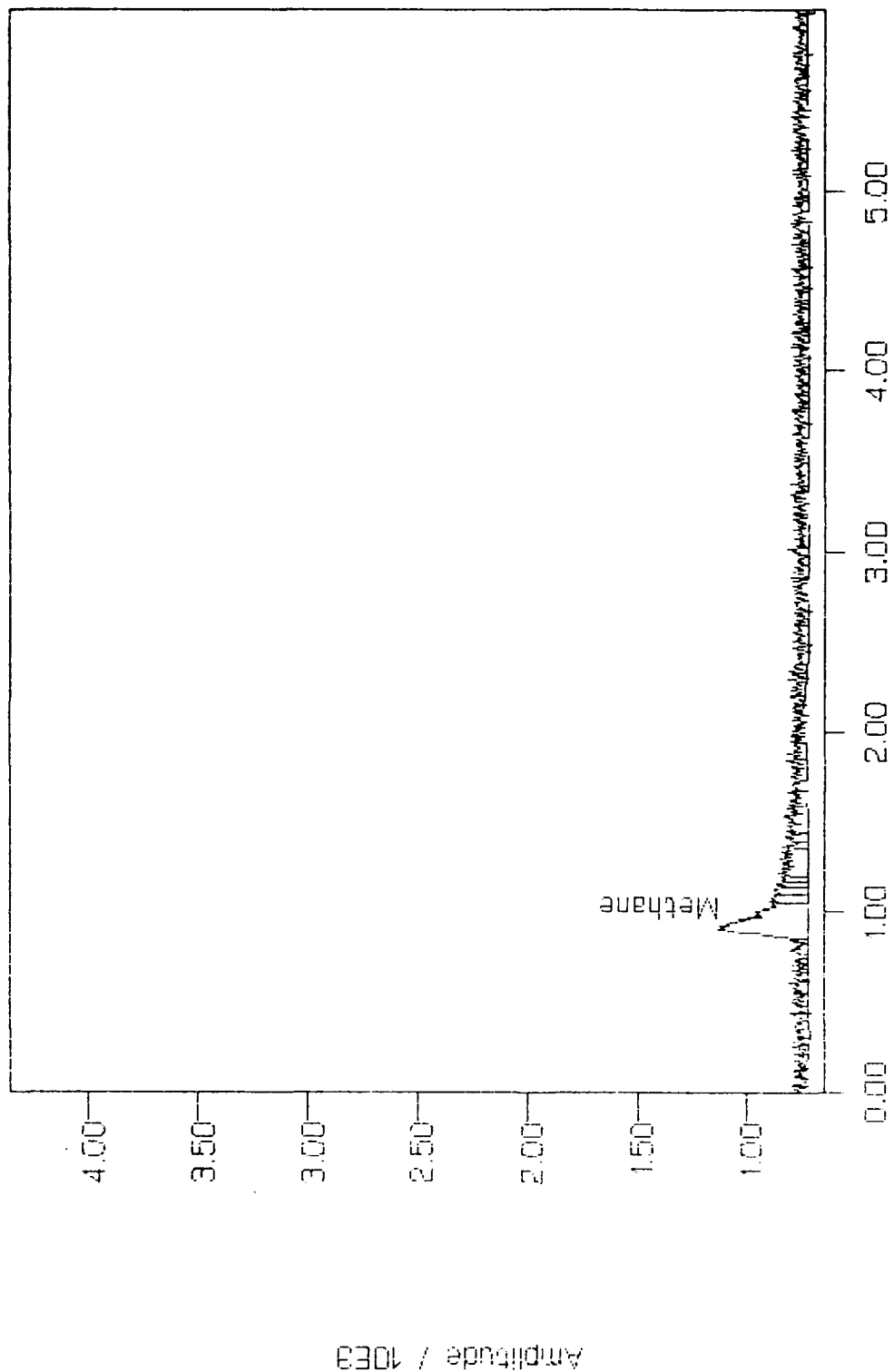


Sample : x94669 @ 76.2 F DF=10 CI# CPT-5S Injected : SAT OCT 1, 1994



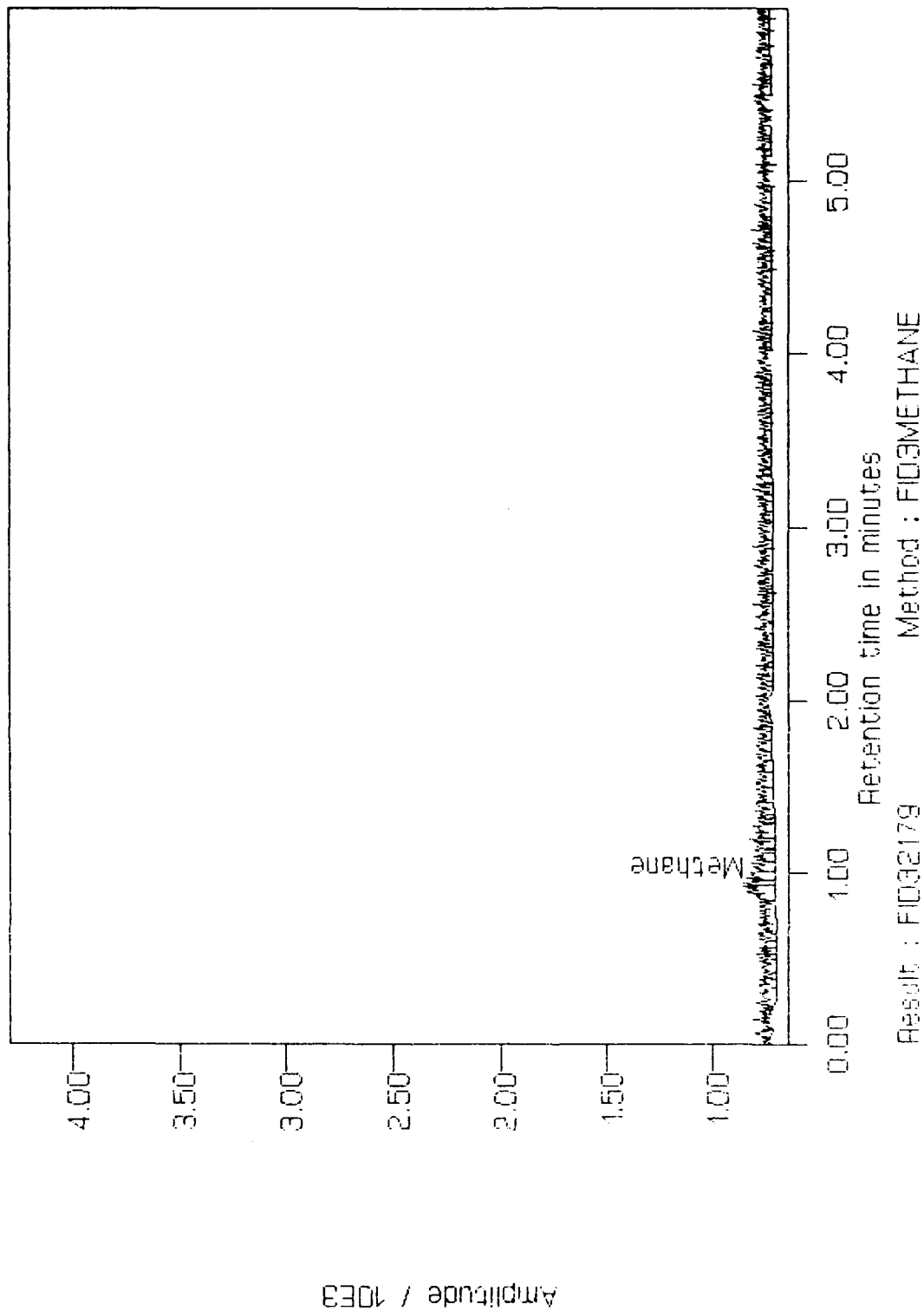
Result : FID32177
Method : FID3METHANE

Sample : x94670 @ 78.2 F DF=10 CI# CPT-5D Injected : SAT OCT 1, 1994

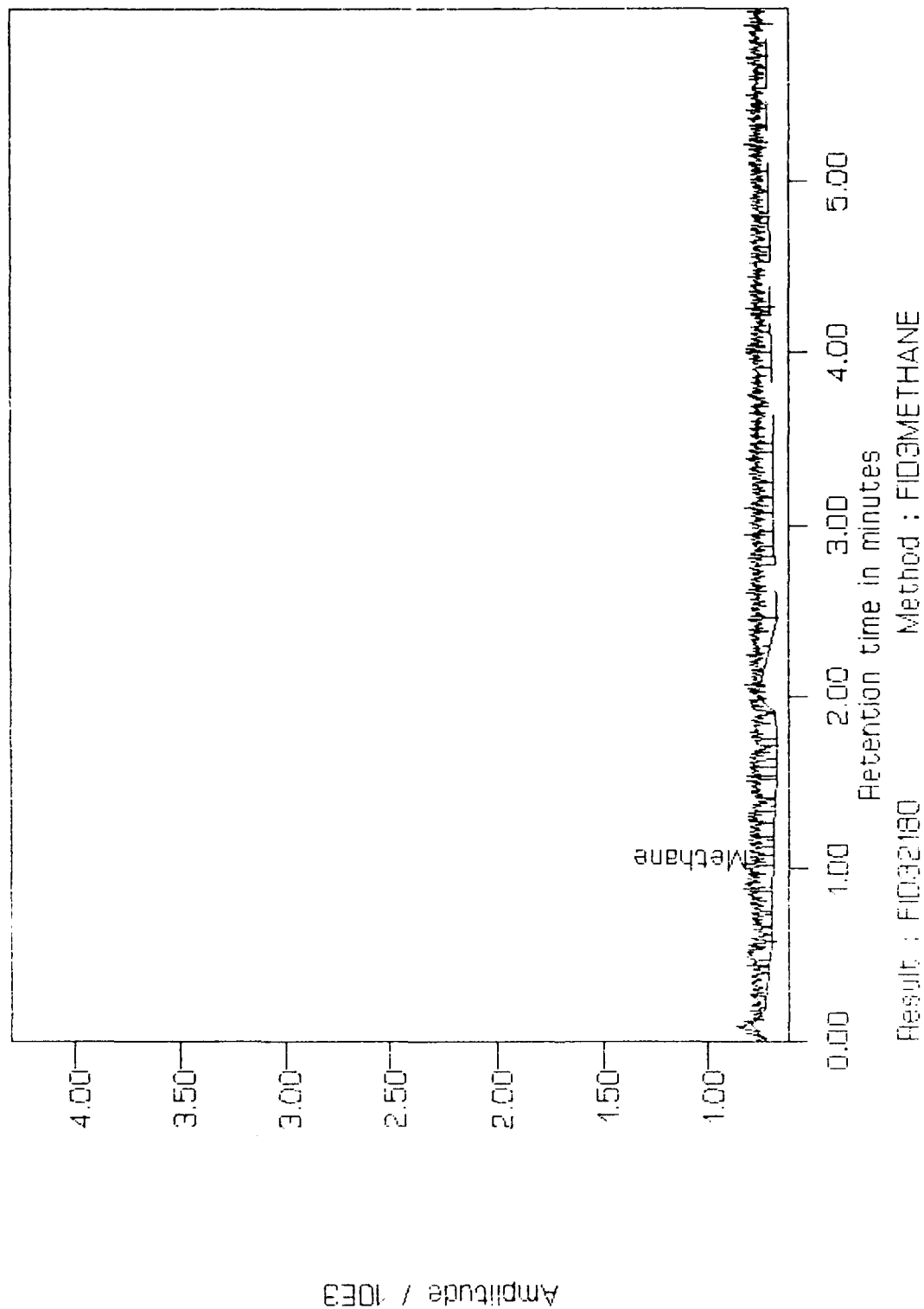


Result : FID32178 Method : FID3METHANE

Sample : x94672 @ 78.6 F DF=10 CI# CPT-19S Injected : SAT OCT 1, 1994



Sample: x94676 @ 78.2 F Client # CPT-20 Injected: SAT OCT 1, 1994 9:11



EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303)425-6021

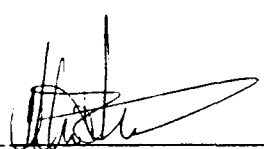
Anions

Date Sampled : 9/16/94 Client Project ID. : Madison ANG
Date Received : 9/17/94 Lab Project No. : 94-3553
Date Prepared : 9/20/94 Method : EPA 300.0
Date Analyzed : 9/20,21/94 Matrix : Water

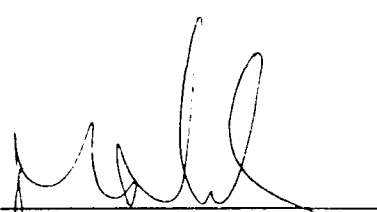
Evergreen Sample #	Client Sample ID	Sulfate (mg/L)
X94666	CPT-1D	45.2
X94669	CPT-5S	5.01
X94670	CPT-5D	6.83
X94672	CPT-19S	25.3
X94676	CPT-20	17.0
X94676 (dup)	CPT-20 (dup)	17.0
Method Blank (9/20/94)		<0.250
Method Blank (9/21/94)		<0.250

Quality Assurance

		Spike Amount (mg/L)	Sample Result (mg/L)	Spike Result (mg/L)	% Recovery
X94676	CPT-20	10.0	17.0	27.0	99.9
Matrix Spike					
X94676	CPT-20	10.0	17.0	26.3	93.1
Matrix Spike Dup					
MS/MSD	RPD				7.05
X94676/X94676 Dup RPD					0



Analyst



Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

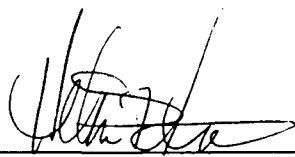
Anions

Date Sampled : 9/16/94 Client Project ID. : Madison ANG
Date Received : 9/17/94 Lab Project No. : 94-3553
Date Prepared : 9/20/94 Method : EPA 300.0
Date Analyzed : 9/20,21/94 Matrix : Water

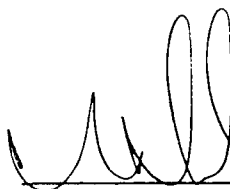
Evergreen Sample #	Client Sample ID	Chloride (mg/L)
X94666	CPT-1D	15.3
X94669	CPT-5S	16.9
X94670	CPT-5D	16.3
X94672	CPT-19S	30.1
X94676	CPT-20	1.85
X94676 (dup)	CPT-20 (dup)	1.82
Method Blank (9/20/94)		<0.250
Method Blank (9/21/94)		<0.250

Quality Assurance

		Spike Amount (mg/L)	Sample Result (mg/L)	Spike Result (mg/L)	% Recovery
X94676	CPT-20	10.0	1.85	11.4	95.5
Matrix Spike					
X94676	CPT-20	10.0	1.85	11.1	92.1
Matrix Spike Dup					
MS/MSD	RPD				3.62
X94676/X94676 Dup RPD					1.63



Analyst



Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303)425-6021

Anions

Date Sampled : 9/16/94 Client Project ID. : Madison ANG
Date Received : 9/17/94 Lab Project No. : 94-3553
Date Prepared : 9/18/94 Method : EPA 300.0
Date Analyzed : 9/18/94 Matrix : Water

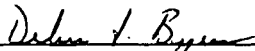
<u>Evergreen</u> <u>Sample #</u>	<u>Client</u> <u>Sample ID</u>	<u>Nitrite as N (mg/L)</u>
X94666	CPT-1D	<0.076
X94669	CPT-5S	<0.076
X94670	CPT-5D	<0.076
X94672	CPT-19S	<0.076
X94676	CPT-20	<0.076
X94676 (dup)	CPT-20 (dup)	<0.076
Method Blank (9/18/94)		<0.076

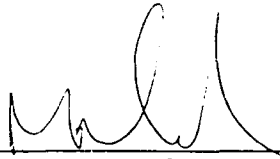
Quality Assurance *

		<u>Spike</u> <u>Amount</u> <u>(mg/L)</u>	<u>Sample</u> <u>Result</u> <u>(mg/L)</u>	<u>Spike</u> <u>Result</u> <u>(mg/L)</u>	<u>%</u> <u>Recovery</u>
X94669	CPT-5S	10.0	<0.250	9.24	92.4
Matrix Spike					
X94669	CPT-5S	10.0	<0.250	9.28	92.8
Matrix Spike Dup					
MS/MSD	RPD				0.043
X94676/X94676 Dup	RPD				NC

NC = Not calculated because sample and/or sample duplicate is below detection limit.

* = Quality assurance results reported as nitrite (NO₂).


Analyst


Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Anions

Date Sampled : 9/16/94 Client Project ID. : Madison ANG
Date Received : 9/17/94 Lab Project No. : 94-3553
Date Prepared : 9/18/94 Method : EPA 300.0
Date Analyzed : 9/18/94 Matrix : Water

<u>Evergreen</u> <u>Sample #</u>	<u>Client</u> <u>Sample ID</u>	<u>Nitrate as N (mg/L)</u>
X94666	CPT-1D	0.790
X94669	CPT-5S	0.136
X94670	CPT-5D	0.100
X94672	CPT-19S	0.101
X94676	CPT-20	10.7
X94676 (dup)	CPT-20 (dup)	10.5
Method Blank (9/18/94)		<0.056

Quality Assurance *

		<u>Spike</u> <u>Amount</u> <u>(mg/L)</u>	<u>Sample</u> <u>Result</u> <u>(mg/L)</u>	<u>Spike</u> <u>Result</u> <u>(mg/L)</u>	<u>%</u> <u>Recovery</u>
X94669	CPT-5S	10.0	0.603	9.25	86.5
Matrix Spike					
X94669	CPT-5S	10.0	0.603	9.12	85.2
Matrix Spike Dup					
MS/MSD	RPD				1.51
X94676/X94676 Dup	RPD				1.17

* Quality assurance results reported as nitrate (NO₃)

Debra J. Bayne
Analyst

[Signature]
Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Miscellaneous Analyses

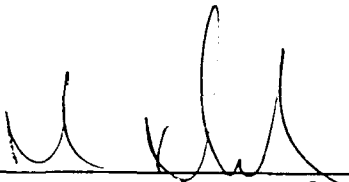
Date Sampled : 9/16/94 Client Project ID. : Madison ANG
Date Received : 9/17/94 Lab Project No. : 94-3553
Date Prepared : 9/22/94 Matrix : 5.00 mgCaCO₃/L
Date Analyzed : 9/22/94 Method : EPA 310.1

<u>Evergreen Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Total Alkalinity (mgCaCO₃/L)</u>
X94666	CPT-1D	Water	473
X94666 Dup	CPT-1D Dup	Water	464
X94670	CPT-5D	Water	424
X94672	CPT-19S	Water	450
X94676	CPT-20	Water	378
Method Blank (9-22-94)			<5.00

Quality Assurance

	<u>Ture Value (mgCaCO₃/L)</u>	<u>Result (mgCaCO₃/L)</u>	<u>% Recovery</u>
Spex Reference Lot WP 1290 Minerals	24.2	21.8	90.0
X94666/X94666 dup RPD			1.92


Analyst


Approved

3553tm.4

HUFFMAN

LABORATORIES, INC.

Quality Analytical Services Since 1936

4630 Indiana Street • Golden, CO 80403

NON-CLP ANALYSIS RESULTS

Date: 10/26/94 rev01

Lab Name: Huffman Labs

Client: Evergreen Analytical

Contact: Sue Zeller

Contact: Mark Mensik

Sample Matrix: soils

Huffman Lab #: 273494

Client Smp#	Lab ID #	Element/Compound	Dilution Factor	Results	Units	Prep Date	Analysis Date	Sample Size (g)	Method #	Instrument ID
WANG-CPT2-7	27349401	TC	NA	2.20	%	NA	10/08/94	0.851	Leco CR12	#7
WANG-CPT2-7	27349401	TC	NA	2.81	%	NA	10/08/94	0.565	Leco CR12	#7
WANG-CPT3-5	27349402	TC	NA	2.13	%	NA	10/08/94	0.359	Leco CR12	#7
WANG-CPT3-5*	27349403	TC	NA	3.36	%	NA	10/08/94	0.489	Leco CR12	#7
WANG-CPT9-5.5	27349404	TC	NA	2.81	%	NA	10/08/94	0.415	Leco CR12	#7
WANG-CPT18-4.5	27349405	TC	NA	0.93	%	NA	10/08/94	0.510	Leco CR12	#7
WANG-CPT2-7	27349401	CC	NA	1.68	%	NA	10/05/94	0.070	COU-02	#3
WANG-CPT2-7	27349401	CC	NA	2.27	%	NA	10/05/94	0.072	COU-02	#3
WANG-CPT3-5	27349402	CC	NA	2.05	%	NA	10/05/94	0.078	COU-02	#3
WANG-CPT3-5*	27349403	CC	NA	3.32	%	NA	10/05/94	0.030	COU-02	#3
WANG-CPT9-5.5	27349404	CC	NA	3.00	%	NA	10/05/94	0.034	COU-02	#3
WANG-CPT18-4.5	27349405	CC	NA	0.75	%	NA	10/05/94	0.063	COU-02	#3
WANG-CPT2-7	27349401	TOC	NA	0.52	%	NA	NA	NA	by calc	NA
WANG-CPT2-7	27349401	TOC	NA	0.54	%	NA	NA	NA	by calc	NA
WANG-CPT3-5	27349402	TOC	NA	0.08	%	NA	NA	NA	by calc	NA
WANG-CPT3-5*	27349403	TOC	NA	<0.05	%	NA	NA	NA	by calc	NA
WANG-CPT9-5.5	27349404	TOC	NA	<0.05	%	NA	NA	NA	by calc	NA
WANG-CPT18-4.5	27349405	TOC	NA	0.18	%	NA	NA	NA	by calc	NA

*(MS/MSD)

Samples analyzed and results reported on as as received basis.

Soil samples are not homogeneous.

TC detection limit = 0.05%

CC detection limit = 0.02%

TOC detection limit = 0.05%

Client Smp#	Lab ID #	Element/Compound	Dilution Factor	Results	Units	Prep Date	Analysis Date	Sample Size (ml)	Method #	Instrument ID
CPT-1D	27349406	DOC	NA	8.6	mg/L	NA	10/08/94	10	SM5310D	#6
CPT-1D	27349406	DOC	NA	8.7	mg/L	NA	10/08/94	10	SM5310D	#5
HP-CPT-3	27349407	DOC	NA	2.5	mg/L	NA	10/08/94	10	SM5310D	#6

DOC detection limit = 0.5 mg/L

HUFFMAN

LABORATORIES, INC.

Quality Analytical Services Since 1936

4630 Indiana Street • Golden, CO 80403

NON-CLP ANALYSIS RESULTS

LABORATORY CONTROL STANDARD

Date: 10/26/94 rev01 Client: Evergreen Analytical
Lab Name: Huffman Labs Contact: Mark Mensik
Contact: Sue Zeller Huffman Lab #: 273494

LABORATORY CONTROL STANDARD

Lab ID #	Source	Element/ Compound	True Value	Found Value	% R	Units	Date	Method #	Instrument ID
LCS	BN 4384	TC	3.35	3.37	101	%	10/08/94	Leco CR12	#7
LCS	BN 4056	CC	11.33	11.28	100	%	10/05/94	COU-02	#3
LCS	BN 99	DOC	5	5.8	116	mg/L	10/08/94	SM 53100	#6

SPIKE RECOVERY

Lab ID #	Source	Element/ Compound	True Value	Found Value	% R	Units	Date	Method #	Instrument ID
SPIKE	BN 3716	TC	12840	12309	96	ug C	10/08/94	Leco CR12	#7
SPIKE DUP	BN 3716	TC	14880	15608	105	ug C	10/08/94	Leco CR12	#7
SPIKE	BN 3716	CC	1310	1410	108	ug C	10/05/94	COU-02	#3
SPIKE DUP	BN 3716	CC	1174	1264	108	ug C	10/05/94	COU-02	#3
SPIKE	PD 8/9/94	DOC	25	23.6	94	mg/L	10/08/94	SM 53100	#6
SPIKE DUP	PD 8/9/94	DOC	25	27.6	110	mg/L	10/08/94	SM 53100	#6

HUFFMAN

LABORATORIES, INC.

Quality Analytical Services Since 1936

4630 Indiana Street • Golden, CO 80403

NON-CLP QA/QC ANALYSIS RESULTS

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Date: 10/26/94 rev01 Client: Evergreen Analytical
Lab Name: Huffman Labs Contact: Mark Mensik
Contact: Sue Zeller Huffman Lab #: 273494

INITIAL CALIBRATION

Lab ID #	Source	Element/ Compound	True Value	Found Value	% R	Units	Date	Method #	Instrument ID
ICS	BN 3716	TC	12.00	12.02	100	%	10/08/94	Leco CR12	#7
ICS	BN 3716	CC	12.00	12.02	100	%	10/05/94	COU-02	#3
ICS	BN 461	DOC	10	10.1	101	mg/L	10/08/94	SM 5310D	#6

Slope = NA

Intercept = NA

95% Correlation Coefficient = NA

Single point calibrations for this test.

CONTINUING CALIBRATION VERIFICATION

Lab ID #	Source	Element/ Compound	True Value	Found Value	% R	Units	Date	Method #	Instrument ID
CCS	BN 3716	TC	12.00	11.91	99	%	10/08/94	Leco CR12	#7
CCS	BN 3716	TC	12.00	11.90	99	%	10/08/94	Leco CR12	#7
CCS	BN 3716	CC	12.00	12.05	100	%	10/05/94	COU-02	#3
CCS	BN 3716	CC	12.00	12.02	100	%	10/05/94	COU-02	#3
CCS	BN 461	DOC	10	10.3	103	mg/L	10/08/94	SM 5310D	#6
CCS	BN 461	DOC	10	10.3	103	mg/L	10/08/94	SM 5310D	#6

Indiana Street • Golden, CO 80403

BALANCE # 19

BN

3716

3.348 %C (theory)

BN

4384

[illegible]

HUFFMAN

LABORATORIES, INC.

Quality Analytical Services Since 1936

7 Indiana Street • Golden, CO 80403

ANALYSIS : TOTAL CARBON

METHOD : HIGH TEMP
COMB. - INFRARED DET.

INSTRUMENT : LECO CR12

ANALYZER # 7

BALANCE # 19

STD. CALCIUM CARBONATE

STD. N.I.S.T. BUFFALO RIVER SEDIMENT (BRS)

12.00 %C (theory)

BN

3716

3.348 %C (theory)

BN

4324

SAMPLE #	SAMPLE WT G		% CARBON PRE-CALIB	% CARBON POST-CALIB	QC	% REC.
Cc(C3)	.1150 / .250			13.116 - 11.91	CCS	110%
Z734-01	.8510			2.200 ±	12-21	NH
Z734-01	.5650			2.812		
2734-01	.4460	> spike		5.210	i.	i.
Ca(03)	.1070			-		
2734-01	.4410	> spike		5.521		
Ca(03)	.1240			.		
2734-02	.3590			2.126		
2734-03	.4890			3.359		
2734-04	.4150			2.812		
2734-05	.5100			00.929		
Ca(03)	.1150			11.90	CCS	CF4%

ANALYST J. M. L. L. L.	DATE 10-8-94	REVIEWED J. M. L. L. L.	DATE 10/10/94	PAGE 2 OF 5

702193

4630 Indiana Street • Golden, CO 80403

RECEIVED 12/22/92

LABORATORIES, INC.
Quality Analytical Services Since 1936
630 Indiana Street • Golden, CO 80403

ANALYSIS	CARBONATE CARBON	METHOD	SOP COU-02
ANALYZER #	6	COULOMETER #	3
BALANCE #	10		

SODIUM CARBONATE STD # 353 <chem>CaCO3</chem>	BOTTLE # 3716	% C THEORY = 12.00%	SODIUM CARBONATE Na ₂ CO ₃	BOTTLE # 4056	% C THEORY = 11.33%

ANALYST <i>Tom Herndon</i>	DATE <i>10-5-94</i>	REVIEWED <i>SH</i>	DATE <i>10-5-95</i>	PAGE <i>2</i> OF <i>3</i>

RE-1500 120332

630 Indiana Street • Golden, CO 80403

ANALYST <i>Tom Herman</i>	DATE <i>10-5-74</i>	REVIEWED <i>SFI</i>	DATE <i>10-5-75</i>	PAGE 3 OF 3

RECEIVED 120032

Quality Analytical Services Since 1956
4930 Indiana Street • Golden, CO 80401

DETECTION LIMIT 50 µg Cu

COULOMETER # 10

25 mg/L std. (dil date) 9-22-84

K.L.H. BN 99

2734-06	10	88.9	8.59			
2734-07	10	28.1	2.51			
284-07	10	27.3	2.43			
2734-06	10	91.0	8.70			
2734-06	10	104.1	10.01	Final sample +	Spiker recovery	93%
2734-06	10	108.0	10.50	Final 25% - 48	Spiker recovery	109%
10 100-16	10	105.4	10.26		CCS	103%

PAGE / OF /

$$\mu\text{g C/L} = (\text{mg C/L}) * 1000$$

100 2.5/2 STD KHP BN 99 dtd 8-9-94

10/493



November 16, 1994

MS GAIL SAXTON
ENGINEERING SCIENCE INC
1700 BORADWAY SUITE 900
DENVER CO 80290

Data Report : 94-4373
Client Project : Madison ANG

Dear Ms. Saxton:

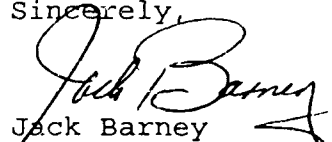
Enclosed are the analytical results for the samples shown in the Sample Log Sheet. The enclosed data have been reviewed for quality assurance. If you have any questions concerning the reported information, please contact Mark Mensik, Project Manager, or me.

Please Note: Samples marked for return on the Sample Log Sheet are considered hazardous, unsuitable for municipal disposal or were placed on hold at your request. Samples considered hazardous or unsuitable for municipal disposal will be returned to you immediately. Samples placed on hold will be returned and samples not considered hazardous will be disposed of one (1) month from the date of this letter.

The invoice for this work will be mailed to your Accounts Payable department shortly.

Thank you for using the services of Evergreen Analytical.

Sincerely,


Jack Barney
President

TM



Evergreen

CASE NARRATIVE

Evergreen Analytical Projects: 94-4373

Engineering Science, Inc. (ES) Project: Madison ANG

Subcontract Number: 722450.SC02

Sample Receipt

On November 9, 1994 five soil and five groundwater samples were received at Evergreen Analytical Laboratory (EAL) for analysis under the subcontract referenced above. Refer to the EAL Check-in Record for specific information regarding the condition of samples upon receipt at EAL. Refer to the EAL Sample Log Sheet for specific log-in information and cross-reference of EAL and ES sample identifications.

The sampling firm did not sign the chains-of-custody relinquishing the samples to Federal Express.

Missed Holding Times

These samples were originally sampled on September 16, 1994 and received at EAL on September 17, 1994 but were not analyzed within contract required holding times for BTEX/TMB, total volatile hydrocarbons and total extractable hydrocarbons. These samples were subsequently re-sampled and have been analyzed for the aforementioned analytes under an agreement between EAL and ES dated October 31, 1994. This data package contains the analytical results for these samples.

Sample CPT21-5.5 was identified as CPT21-6 on the original group of samples received September 17, 1994. Sample CPT10-5.5 from the original group of samples received September 17, 1994, was not resampled.

BTEX and Trimethylbenzenes (TMB)

TMBs were not requested on the chain-of-custody for the soil samples, however, they were included on the hard copy data reports. Gail Saxton of Engineering Science was informed of this and stated that this would not create a problem and requested that the TMBs remain on the hard copy reports. The TMB results are not included on the disk deliverables.

Sample CPT-19S was spiked. The percent recoveries for the matrix spike sample were all acceptable except for 1,2,4-trimethylbenzene. All percent recoveries for the matrix spike duplicate (MSD) were unacceptable, as were all RPD results. The poor MSD results are most likely due to a bad purge. The surrogate recovery for the MSD was 47%, which is lower than the low control limit. The MS and MSD are being re-analyzed. The results will be forwarded as soon as available. None of the data have been qualified based on the MS/MSD results.

The trip blank that accompanied the cooler containing the soil samples exhibited a low surrogate recovery. The sample is being re-analyzed. The results will be forwarded as soon as available.

Evergreen Analytical, Inc. 4036 Youngfield St. Wheat Ridge, CO 80033-3862 (303) 425-6021 FAX (303) 425-6854

Page 2
Case Narrative
Madison ANG (EAL# 94-4373)

Total Extractable Hydrocarbons (TEH)

There was no MSD sample analyzed for the water matrix samples due to insufficient sample volume. The MS result was acceptable.

Total Volatile Hydrocarbons (TVH)

There were no quality control anomalies to report.

Disk Deliverables

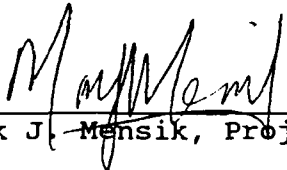
The disk deliverables are also included with the hard copy data package.

The results from this data package have been added to the disk deliverable from the first Madison ANG data package.

The total xylenes results on the hard copy and the disk deliverable are reported using two significant figures. The disk deliverable also includes results for m/p-xylene and o-xylene that are not reported on the hard copy. These results are reported using three significant figures in some instances.

A hardcopy of each spreadsheet included on the diskette are included. The name for each file is located in the top left corner on the first page of each spreadsheet printout.

The electronic deliverables are reported on Microsoft Excel version 5.0.



Mark J. Mensik, Project Manager

Aqueous Analytes/Methods - Waters 3															SW8020														
Method																													
Sample ID	Benzene (ug/L)	Benzene flag	Toluene (ug/L)	Toluene flag	Ethyl Benzene (ug/L)	Ethyl Benzene flag	M&P-xylene (ug/L)	M&P-xylene flag	O-xylene (ug/L)	O-xylene flag	Total Xylenes (ug/L)	Total Xylenes flag	Total BTEX (ug/L)	Total BTEX flag															
MW-16	5.1		0.4	<	0.4	<	2.2		0.4	<	2.2		7.3																
MW-13	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<															
MW-12	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<															
MW-11	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<															
MW-25	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<															
MW-UNK	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<															
TRIP-BLANK	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<															
MW-17	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<															
MW-10	110		4.8		78		373		2.9		380		57C																
MW-8	4700	E	15		220		1660		20		1700		6600																
MW-9	98		1.2		0.7		0.9		1.7		2.6		100																
MW-26	89		1.0		0.6		1.7		1.3		3.0		94																
MW-22S	0.4	<	0.4		0.4	<	0.4	<	0.4	<	0.4	<	0.4	<															
TRIP-BLANK	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<															
HP-CPT-3	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<															
HP-CPT-11	13		5.4		420		1670		49		1700		2100																
CPT-17S	26000		30		780		1130		420		1500		28000																
CPT-17D	3800		5.0		360		1000		10		1000		5200																
CPT-18S	83		0.4		3.3		9.8		1.2		11		98																
CPT-15S	14		0.4	<	1.1		3.0		0.5		3.5		19																
CPT-4D	5.2		0.7		0.9		1.8		0.4		2.2		9.0																
FIELD BLANK	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<															
TRIP-BLANK	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<															
CPT-1D	0.4	<	0.7		0.4	<	0.7		0.4	<	0.7		1.4																
CPT-5S	0.4	<	0.8		0.4	<	0.5		0.4	<	0.5		1.3																
CPT-5D	0.9		2.6		0.4	<	1.2		0.4	<	1.2		4.7																
CPT-19S	0.4	<	0.6		0.7	B	2.5		1.8	B	4.3		5.6																
CPT-20	0.4	<	0.5		0.4	<	1.0		0.5	B	1.5		2.0																
TRIP-BLANK	0.4	<	0.4		0.4	<	0.5		0.4	<	0.5		0.9																
TRIP-BLANK 2	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<	0.4	<															

Aqueous Analytes/Methods (continued)

[illegible]

Aqueous Analytes/Methods (continued)													
E300 cont.		SW7380 or SW6010		SW6010/SW7460		E365.4		RSKSOP-175		A5310C		A403	
Chloride (anion) (mg/L)	Chloride (anion) flag	Total Iron (mg/L)	Total Iron flag	Total Manganese (µg/L)	Total Manganese flag	Phosphate (mg/L)	Phosphate flag	Methane (mg/L)	Methane flag	Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon flag	Total Alkalinity (mg/L)	Total Alkalinity flag
34.8								0.21		38		454	
3.43								0.001	<	2.1		333	
12.6								0.001	<			270	
3.97								0.001	<			292	
3.42								0.001	<			294	
5.13								0.001	<	5.5		347	
3.19								0.001	<			281	
4.95								5.54		8.9		287	
6.62								11.74				565	
26.0								0.003		11.1		401	
33.6								0.004				313	
3.63								0.001	<	2.5		369	
6.22								3.84				358	
7.76								5.2				251	
1.95								0.001	<			459	
11.7								0.01				415	
4.99								0.76					
15.3								0.001	<	8.6		473	
16.9								0.17					
16.3								0.13				424	
30.1								0.02				450	
1.85								0.001	<			378	

Soil/Sediment Analytes/Methods (continued)											
SW3500/SW8015M				SW5030/SW8015M				A5310C			
Total Extractable				Total				Total			
Hydrocarbons				Volatiles				Organic Carbon			
TPH				TVH				Alkalinity			
flag				flag				flag			
17000				130				0.24			
3000000				400				0.61			
4600000				100				0.09			
110				110				0.06			
120				110				<			
110				110				<			
110				110				<			

Project # 94-4373

Date Due: 11/14/94

Holding Time(s): 11/14/94

Rush STANDARD

Shipping Charges N/A

E.A. Cooler # 104,361

Airbill # FEDEX-0243763542/553

Custody Seal Intact? N/A

Cooler	Bottles
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

COC Present **Y**

Sample Tags Present?	Y

Sample Tags Listed?	Y

Sample(s)	Sealed?	Y

Special Instructions *MS/MSD INCLUDED IN THIS SAMPLE.

Custodian/Date:

Lab ID #	Client ID#	Analysis	Mtx	Btl	Loc
935A-D	CPT-3-5	*BTEX/TMB	S	2WM	2
X97936A/B	CPT 20-6.8	BTEX/TMB	S	2WM	2
X97937A/B	CPT 7-7.8	BTEX/TMB	S	2WM	2
X97938A/B	CPT 9-5.5	BTEX/TMB	S	2WM	2
X97939A/B	CPT 21-5.5	BTEX/TMB	S	2WM	2
X97940A	TIIP BLANK	BTEX/TMB	S	2WM	2
X97935E/F	CPT-3-5	* TVH	S	2WM	2
X97936C	CPT 20-6.8	TVH	S	2WM	2
X97937C	CPT 7-7.8	TVH	S	2WM	2
X97938C	CPT 9-5.5	TVH	S	2WM	2
X97939C	CPT 21-5.5	TVH	S	2WM	2
X97935G/H	CPT-3-5	* TEH	S	2WM	B3
X97936D	CPT 20-6.8	TEH	S	2WM	B3
X97937D	CPT 7-7.8	TEH	S	2WM	B3
X97938D	CPT 9-5.5	TEH	S	2WM	B3
X97939D	CPT 21-5.5	TEH	S	2WM	B3

Page 2 of 2 Pages
Project # 94-4373

R=Sample to be returned

COMPANY Engineering Science
ADDRESS 1700 Broadway
CITY Denver STATE CO ZIP 80202
PHONE # 303-851-5100 FAX # _____

Evergreen Analytical Inc.

4036 Youngfield St.
Wheat Ridge, Colorado 80033
(303) 425-6021
FAX (303) 425-6854
(800) 845-7400

PHONE# 303-831-5100 FAX# 303-831-4208

Sampler Name Steve Caldwell
(signature) Steve Caldwell
(print) Steve Caldwell / BT² Inc.

Evergreen Analytical Cooler No. 701 + 361
Cooler Received _____

Please **PRINT**

all information:

CLIENT
SAMPLE
IDENTIFICATION

DATE
SAMPLE

TIME

SA
S

CPT 3 - S	11-7-94	12:30
CPT 3 - ms/msd	11-7-94	12:20
CPT 20-6.8	11-7-94	14:10
CPT 7-7.8	11-7-94	15:30
CPT 9-5.5	11-7-94	16:15
CPT 21-5.5	11-7-94	16:30
Trip Blank		

[illegible]

III

DD:

Instructions:

Relinquished by (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by (Signature)	Date/Time

Received by: (Signature)	Date/Time
Mary Decker	11/09/64

COMPANY Engineering Science
ADDRESS 1400 Broadway
CITY Denver STATE CO ZIP 80290
PHONE # 303-881-8100 FAX # 303-

4036 Youngfield St.
Wheat Ridge, Colorado 80033
(303) 425-6021
FAX (303) 425-6854
(800) 845-7400

CLIENT CONTACT (print): Matt Swanson
PROJECT ID: Madison AUG
P.O. # 722450.01000
TURNAROUND REQUIRED: 30 days
*expedited turnaround subject to additional fee

FAX RESULTS (Y / N)

FAX # 303-831-8208

Sampler Name Paul A. Jovan
(signature) Paul A. Jovan
(print) Paul A. Jovan
Evergreen Analytical Cooler No. #104
Cooler Received _____

Evergreen Analytical Cooler No. #104

Cooler Received _____

Please **PRINT**

all information:

CLIENT
SAMPLE
IDENTIFICATION

DATE
SAMPLE

TIME

[illegible]

Instructions:

Relinquished by (Signature)	Date/Time	Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

Evergreen Analytical Sample Receipt/Check-in Re

Date & Time Rec'd: 11/09/94 1130 Shipped Via: _____

Client: ES (Airbill # if applicable)

Client Project ID(s): Madison AN/G

EAL Project #(s): 94-4373 EAL Cooler(s): Y N

Cooler# 104 361 _____

Ice packs Y N Y N Y N Y N Y N

Temperature °C 6.0 5.4 _____

Y N N/A

1. Custody seal(s) present:
Seals on cooler intact
Seals on bottle intact

*coolers
Signed*

2. Chain of Custody present:

✓ _____

3. Containers broken or leaking:
(Comment on COC if Y)

_____ ✓ _____

4. Containers labeled:

✓ _____

5. COC agrees w/ bottles received:
(Comment on COC if N)

✓ _____

6. COC agrees w/ labels:
(Comment on COC if N)

✓ _____

7. Headspace in VOA vials-waters only
(comment on COC if Y)

_____ ✓ _____

8. VOA samples preserved:

✓ _____

9. pH measured on metals, cyanide or phenolics*:
List discrepancies _____
*Non-EAL provided containers only, water samples only.

10. Metal samples present:

Total _____, Dissolved _____

D or PD to be filtered:

T,TR,D,PD to be Preserved:

_____ ✓ _____

11. Short holding times:
Specify parameters _____

_____ ✓ _____

12. Multi-phase sample(s) present:

_____ ✓ _____

13. COC signed w/ date/time:

✓ _____

Comments: _____

(Additional comments on back)
Custodian Signature/Date:

Mark Blanka 11/09/94

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: CPT-1D	Client Project No.	: Madison ANG
Lab Sample Number	: X97928	Lab Project No.	: 04-4373
Date Sampled	: 11/7/94	Dilution Factor	: 1.00
Date Received	: 11/9/94	Method	: 602
Date Extracted/Prepared	: 11/10/94	Matrix	: Water
Date Analyzed	: 11/10/94	Lab File No.	: BX1111009
		Method Blank No.	: MB111094

Compound Name	Cas Number	Sample Concentration ug/L		MDL ug/L
Benzene	71-43-2	U		0.4
Toluene	108-88-3	0.7	B	0.4
Ethyl Benzene	100-41-4	U		0.4
Total Xylene (m/p + o)	1330-20-7	0.7	B	0.4
1,3,5-trimethylbenzene	108-67-8	U		0.4
1,2,4-trimethylbenzene	95-63-6	U		0.4
1,2,3-trimethylbenzene	526 73-8	U		0.4

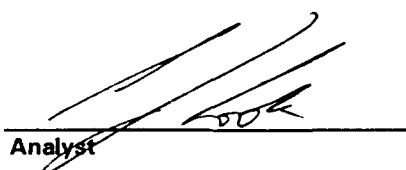
Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

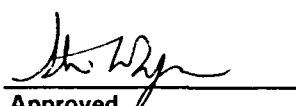
Surrogate Recovery:

a,a,a,-Trifluorotoluene : 99%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value
U = Compound analyzed for, but not detected.
B = Compound found in blank and sample. Compare blank and sample data.
MDL = Method Detection Limit.
NA = Not available.


Analyst


Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: CPT-5S	Client Project No.	: Madison ANG
Lab Sample Number	: X97929	Lab Project No.	: 94-4373
Date Sampled	: 11/7/94	Dilution Factor	: 1.00
Date Received	: 11/9/94	Method	: 602
Date Extracted/Prepared	: 11/10/94	Matrix	: Water
Date Analyzed	: 11/10/94	Lab File No.	: BX1111010
		Method Blank No.	: MB111094

Compound Name	Cas Number	Sample Concentration ug/L		MDL ug/L
Benzene	71-43-2	U		0.4
Toluene	108-88-3	0.8	B	0.4
Ethyl Benzene	100-41-4	U		0.4
Total Xylene (m/p + o)	1330-20-7	0.5	B	0.4
1,3,5-trimethylbenzene	108-67-8	U		0.4
1,2,4-trimethylbenzene	95-63-6	U		0.4
1,2,3-trimethylbenzene	526-73-8	U		0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:
a,a,a,-Trifluorotoluene : 102%
QC Reporting Limits : 77%-116%

QUALIFIERS:

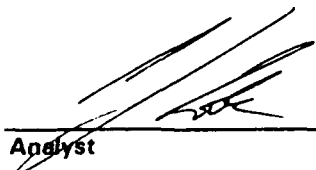
E = Extrapolated value

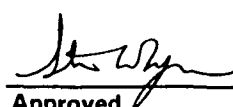
U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

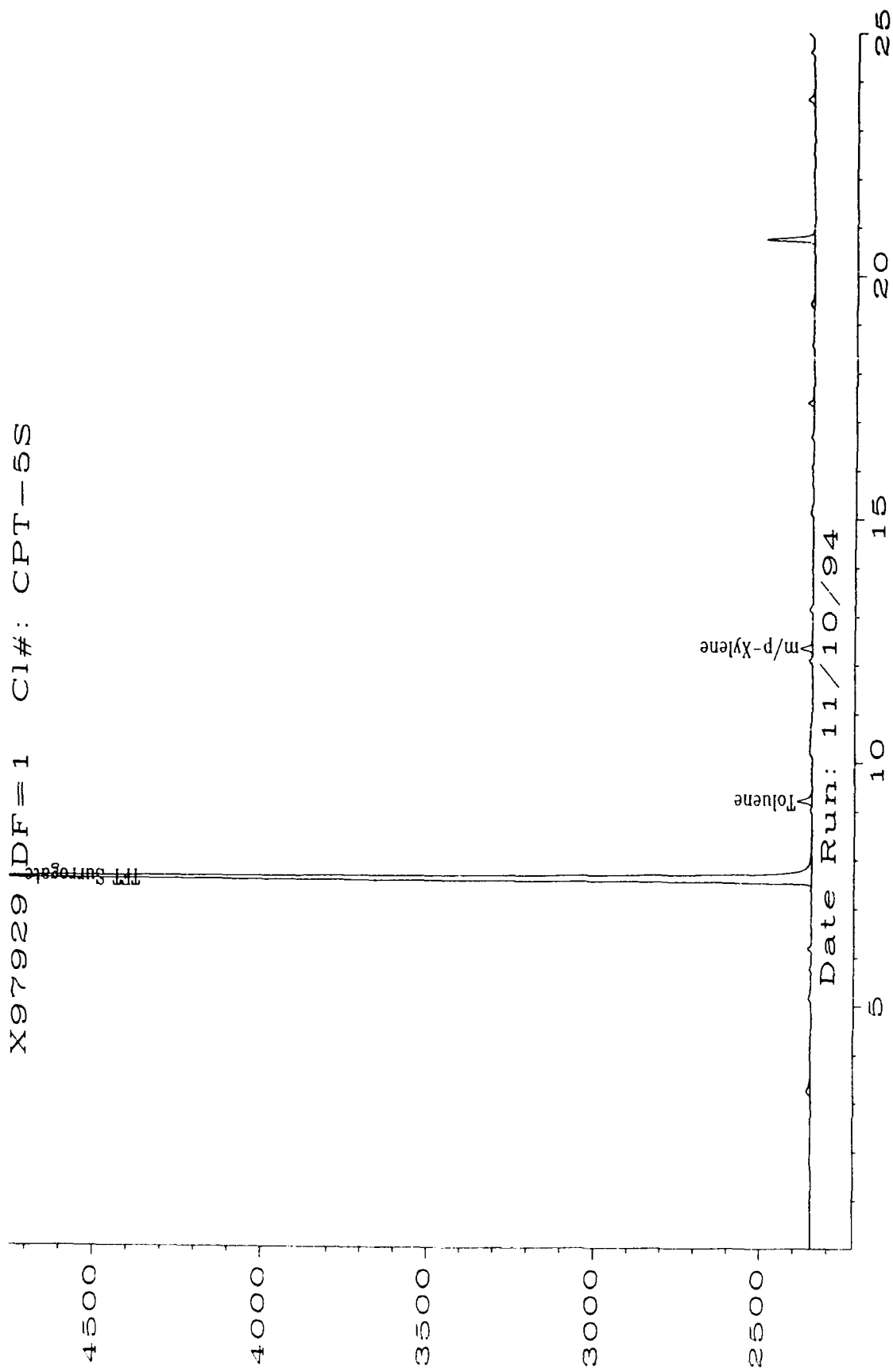
MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved

X97929 DF=1 Cl#: CPT-5S



Sig. 1 in C:\HPCHEM\1\DATA\BX11110\010F0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: CPT-5D	Client Project No.	: Madison ANG
Lab Sample Number	: X97930	Lab Project No.	: 94-4373
Date Sampled	: 11/7/94	Dilution Factor	: 1.00
Date Received	: 11/9/94	Method	: 602
Date Extracted/Prepared	: 11/10/94	Matrix	: Water
Date Analyzed	: 11/10/94	Lab File No.	: BX1111013
		Method Blank No.	: MB111094

Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	0.9	0.4
Toluene	108-88-3	2.6 B	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	1.2 B	0.4
1,3,5-trimethylbenzene	108-67-8	U	0.4
1,2,4-trimethylbenzene	95-63-6	0.6	0.4
1,2,3-trimethylbenzene	526-73-8	U	0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 106%
QC Reporting Limits : 77%-116%

QUALIFIERS:

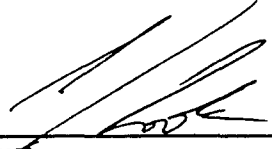
E = Extrapolated value

U = Compound analyzed for, but not detected.

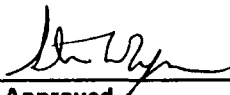
B = Compound found in blank and sample. Compare blank and sample data.

MDL = Method Detection Limit.

NA = Not available.

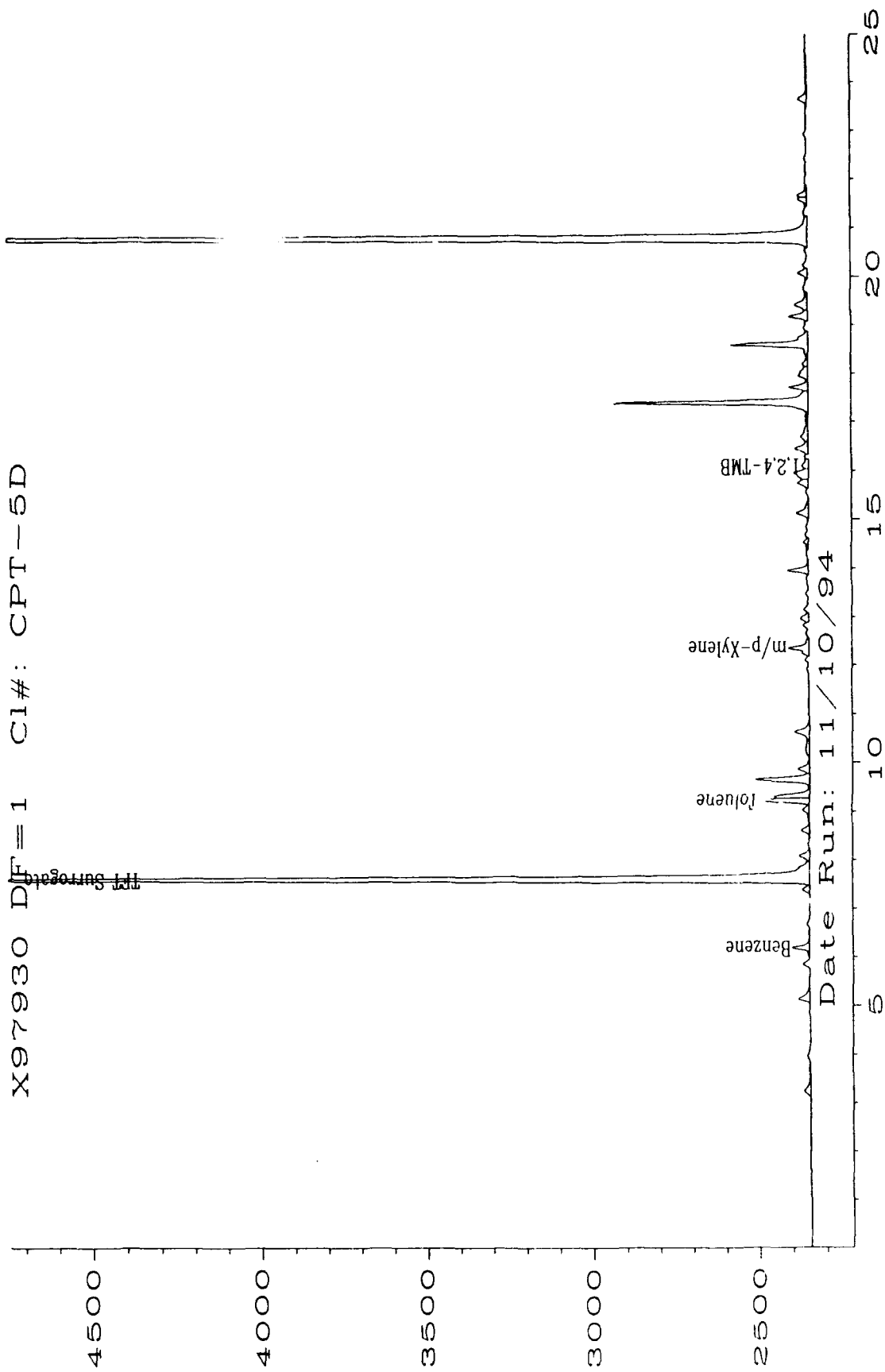


Analyst



Approved

X97930 DF=1 Cl#: CPT-5D



Sig. 1 in C:\HPCHEM\1\DATA\BX1110\O13FO101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: CPT-19S	Client Project No.	: Madison ANG
Lab Sample Number	: X97931	Lab Project No.	: 94-4373
Date Sampled	: 11/7/94	Dilution Factor	: 1.00
Date Received	: 11/9/94	Method	: 602
Date Extracted/Prepared	: 11/10/94	Matrix	: Water
Date Analyzed	: 11/10/94	Lab File No.	: BX1111014
		Method Blank No.	: MB111094

Compound Name	Cas Number	Sample Concentration ug/L		MDL ug/L
Benzene	71-43-2	U		0.4
Toluene	108-88-3	0.6	B	0.4
Ethyl Benzene	100-41-4	0.7	B	0.4
Total Xylene (m/p + o)	1330-20-7	4.3	B	0.4
1,3,5-trimethylbenzene	108-67-8	3.3		0.4
1,2,4-trimethylbenzene	95-63-6	7.7		0.4
1,2,3-trimethylbenzene	526-73-8	2.1		0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 94%
QC Reporting Limits : 77%-116%

QUALIFIERS:

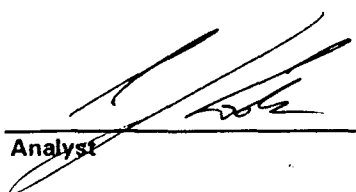
E = Extrapolated value

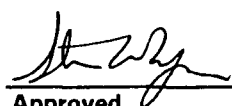
U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

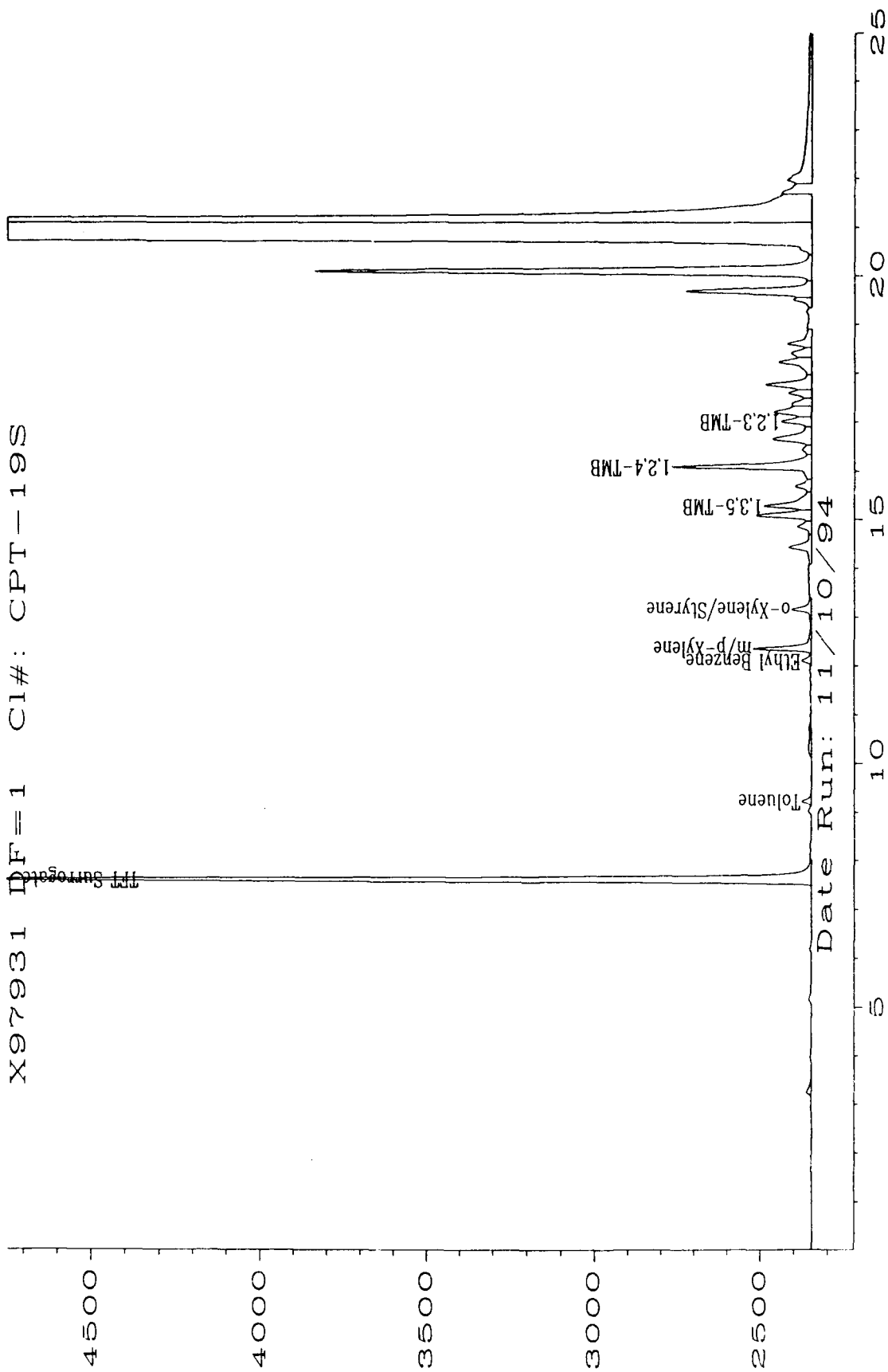
MDL = Method Detection Limit.

NA = Not available.


Analyst


Approved

X97931 DF=1 Cl#: CPT-19S



Sig. 1 in C:\HPCHEM\1\DATA\BX11110\014FO101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: CPT-20	Client Project No.	: Madison ANG
Lab Sample Number	: X97932	Lab Project No.	: 94-4373
Date Sampled	: 11/7/94	Dilution Factor	: 1.00
Date Received	: 11/9/94	Method	: 602
Date Extracted/Prepared	: 11/10/94	Matrix	: Water
Date Analyzed	: 11/10/94	Lab File No.	: BX1111015
		Method Blank No.	: MB111094

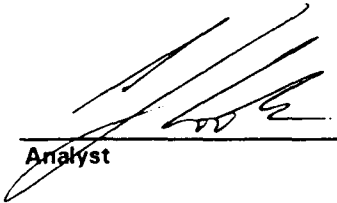
Compound Name	Cas Number	Sample Concentration ug/L	MDL ug/L
Benzene	71-43-2	U	0.4
Toluene	108-88-3	0.5 B	0.4
Ethyl Benzene	100-41-4	U	0.4
Total Xylene (m/p + o)	1330-20-7	1.5 B	0.4
1,3,5-trimethylbenzene	108-67-8	0.7	0.4
1,2,4-trimethylbenzene	95-63-6	2.4	0.4
1,2,3-trimethylbenzene	526-73-8	0.5	0.4

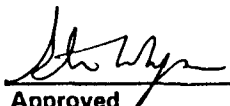
Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:
a,a,a,-Trifluorotoluene : 99%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value
U = Compound analyzed for, but not detected.
B = Compound found in blank and sample. Compare blank and sample data.
MDL = Method Detection Limit.
NA = Not available.


Analyst


Approved

X97932 DT=1 Cl#: CPT-20

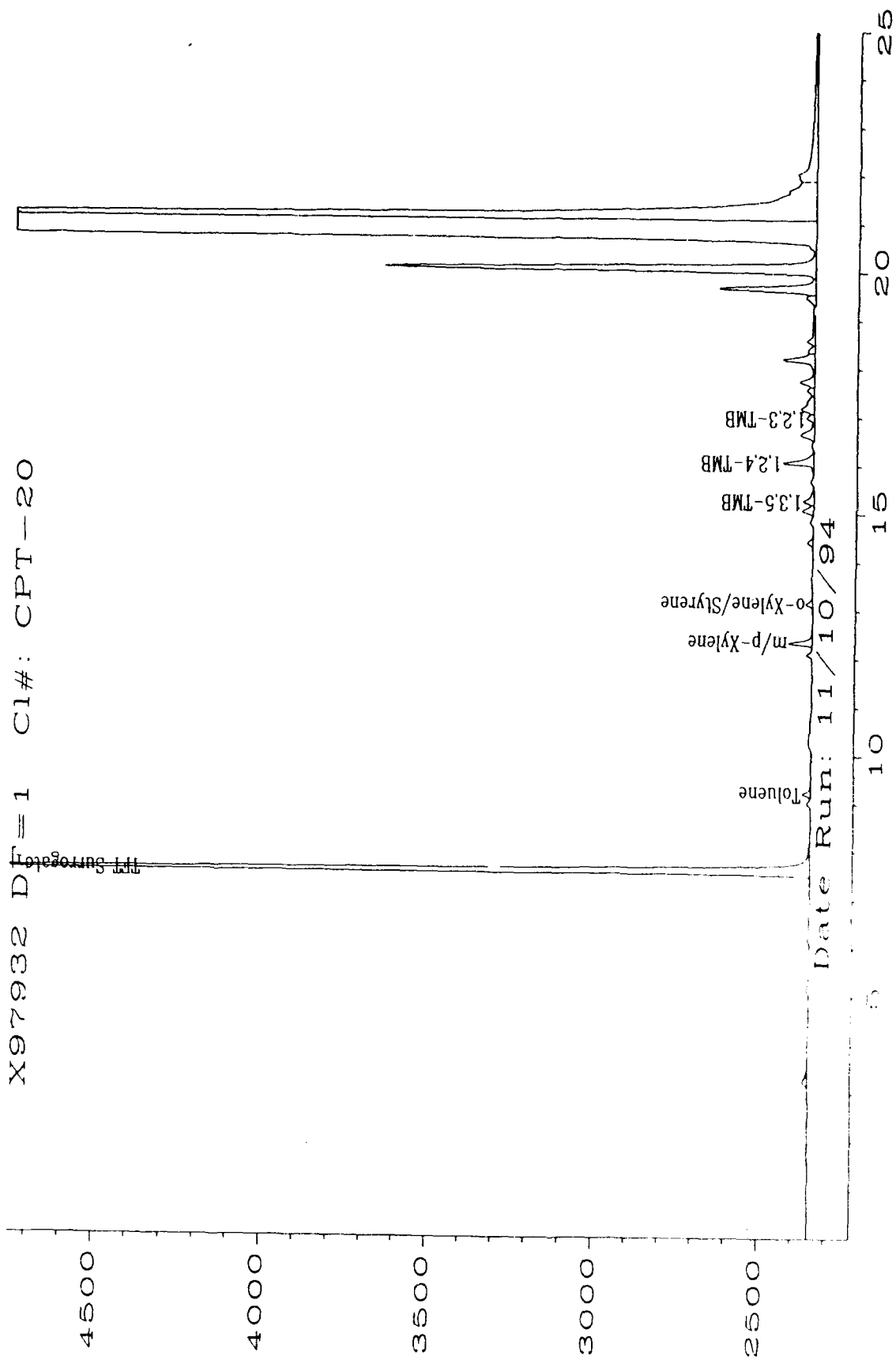


Fig. 1 in C HPCHEM\1\DATA\BX11110\015F0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: CPT-20 Duplicate	Client Project No.	: Madison ANG
Lab Sample Number	: X97933	Lab Project No.	: 94-4373
Date Sampled	: 11/7/94	Dilution Factor	: 1.00
Date Received	: 11/9/94	Method	: 602
Date Extracted/Prepared	: 11/10/94	Matrix	: Water
Date Analyzed	: 11/10/94	Lab File No.	: BX1111017
		Method Blank No.	: MB111094

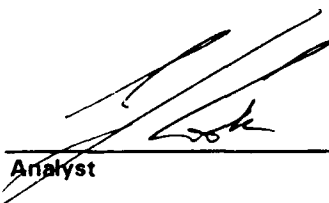
Compound Name	Cas Number	Sample Concentration ug/L		MDL ug/L
Benzene	71-43-2	U		0.4
Toluene	108-88-3	0.5	B	0.4
Ethyl Benzene	100-41-4	U		0.4
Total Xylene (m/p + o)	1330-20-7	0.4	B	0.4
1,3,5-trimethylbenzene	108-67-8	U		0.4
1,2,4-trimethylbenzene	95-63-6	U		0.4
1,2,3-trimethylbenzene	526-73-8	U		0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:
a,a,a,-Trifluorotoluene : 78%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value
U = Compound analyzed for, but not detected.
B = Compound found in blank and sample. Compare blank and sample data.
MDL = Method Detection Limit.
NA = Not available.

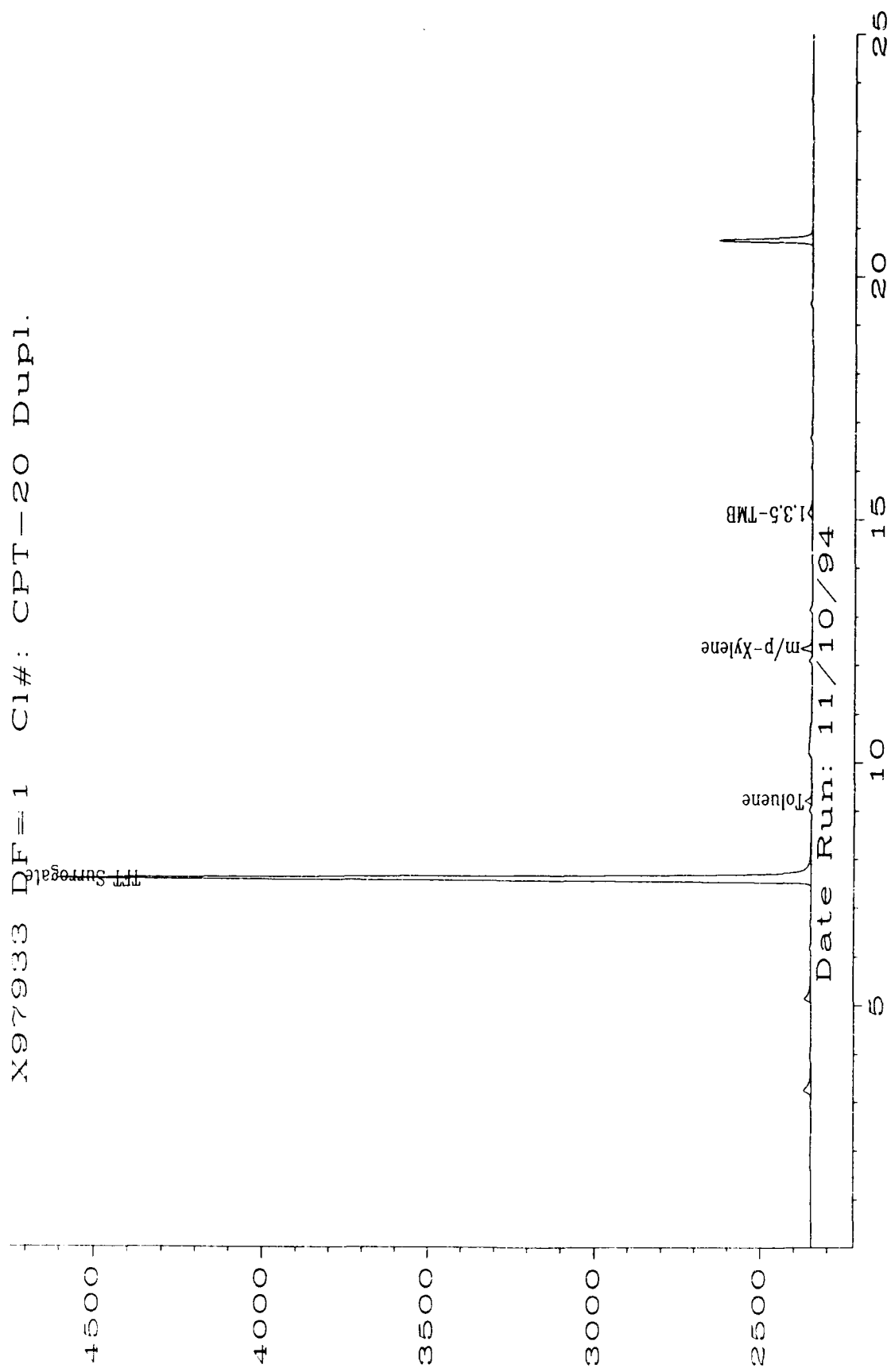


Analyst



Approved

X97933 DF=1 Cl#: CPT-20 Dupl.



Sig. 1 in C:\HPCHEM\1\DATA\BX11110\017F0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: Trip Blank	Client Project No.	: Madison ANG
Lab Sample Number	: X97934	Lab Project No.	: 94-4373
Date Sampled	: 11/7/94	Dilution Factor	: 1.00
Date Received	: 11/9/94	Method	: 602
Date Extracted/Prepared	: 11/10/94	Matrix	: Water
Date Analyzed	: 11/10/94	Lab File No.	: BX1111018
		Method Blank No.	: MB111094

Compound Name	Cas Number	Sample Concentration ug/L		MDL ug/L
Benzene	71-43-2	U		0.4
Toluene	108-88-3	0.4	B	0.4
Ethyl Benzene	100-41-4	U		0.4
Total Xylene (m/p + o)	1330-20-7	0.5	B	0.4
1,3,5-trimethylbenzene	108-67-8	U		0.4
1,2,4-trimethylbenzene	95-63-6	U		0.4
1,2,3-trimethylbenzene	526-73-8	U		0.4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene MDL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 84%
QC Reporting Limits : 77%-116%

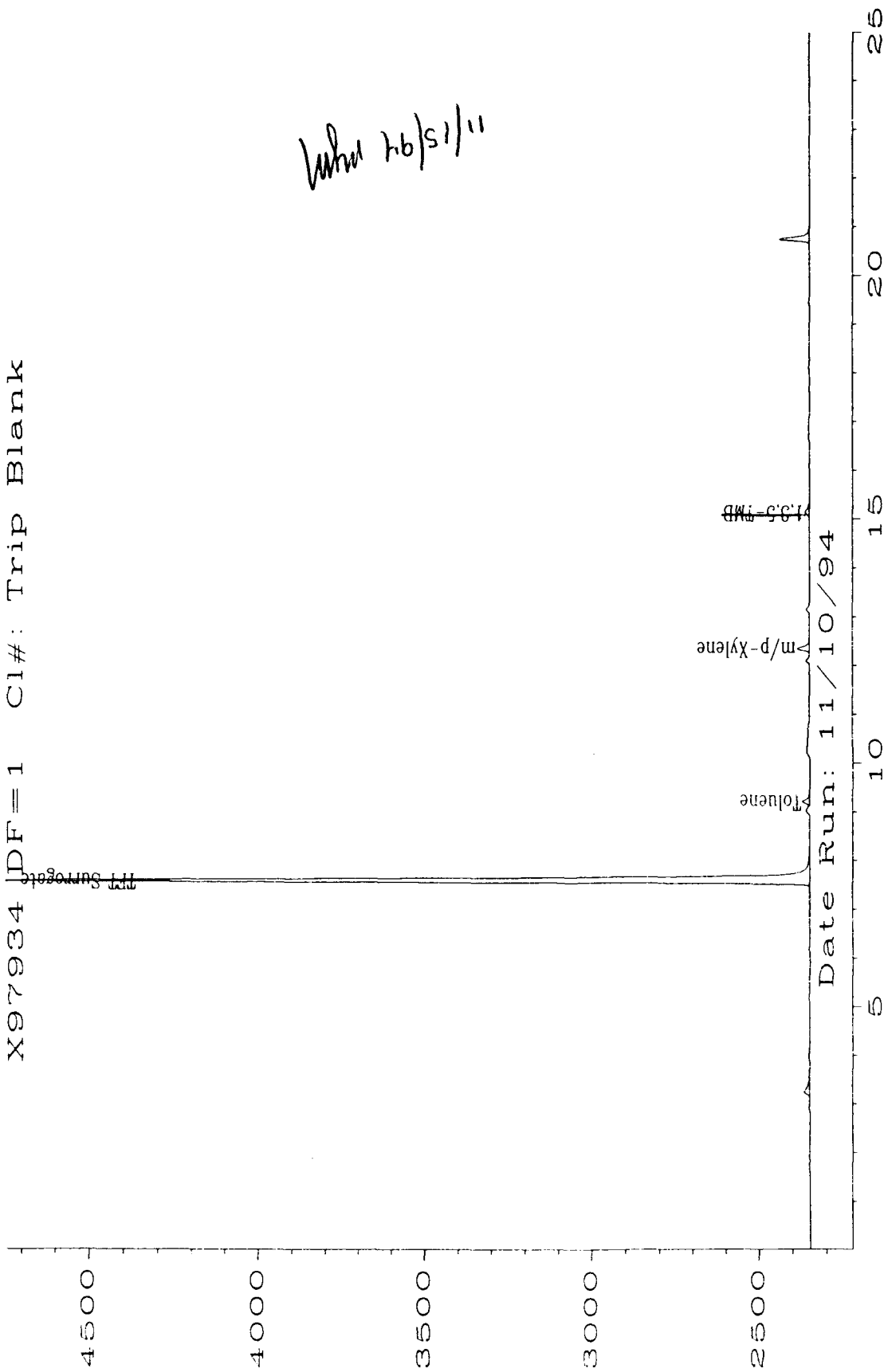
QUALIFIERS:

E = Extrapolated value
U = Compound analyzed for, but not detected.
B = Compound found in blank and sample. Compare blank and sample data.
MDL = Method Detection Limit.
NA = Not available.

Analyst

Approved

X97934 DF=1 Cl#: Trip Blank



Sig 1 in C:\HPCHEM\1\DATA\BX11110\018F0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: CPT-3-5	Client Project No.	: Madison ANG
Lab Sample Number	: X97935	Lab Project No.	: 94-4373
Date Sampled	: 11/7/94	Dilution Factor	: 1.00
Date Received	: 11/9/94	Method	: 8020
Date Extracted/Prepared	: 11/14/94	Matrix	: Soil
Date Analyzed	: 11/14/94	Lab File No.	: BX2111408
Methanol Extract?	: No	Method Blank No.	: MB111494

Compound Name	Cas Number	Sample Concentration**		PQL ug/kg
Benzene	71-43-2	U		4.1
Toluene	108-88-3	0.8	BJ	4.1
Ethyl Benzene	100-41-4	0.4	J	4.1
Total Xylene (m/p + o)	1330-20-7	2.7	BJ	4.1
1,3,5-trimethylbenzene	108-67-8	0.7	J	4.1
1,2,4-trimethylbenzene	95-63-6	1.0	J	4.1
1,2,3-trimethylbenzene	526-73-8	0.5	J	4.1

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 117%
QC Reporting Limits : 55%-127%

QUALIFIERS:

** = All sample results & PQLs are reported on a dry weight basis.

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.

Analyst

Approved

X97935 DF=1 C1#: CPT-3-5

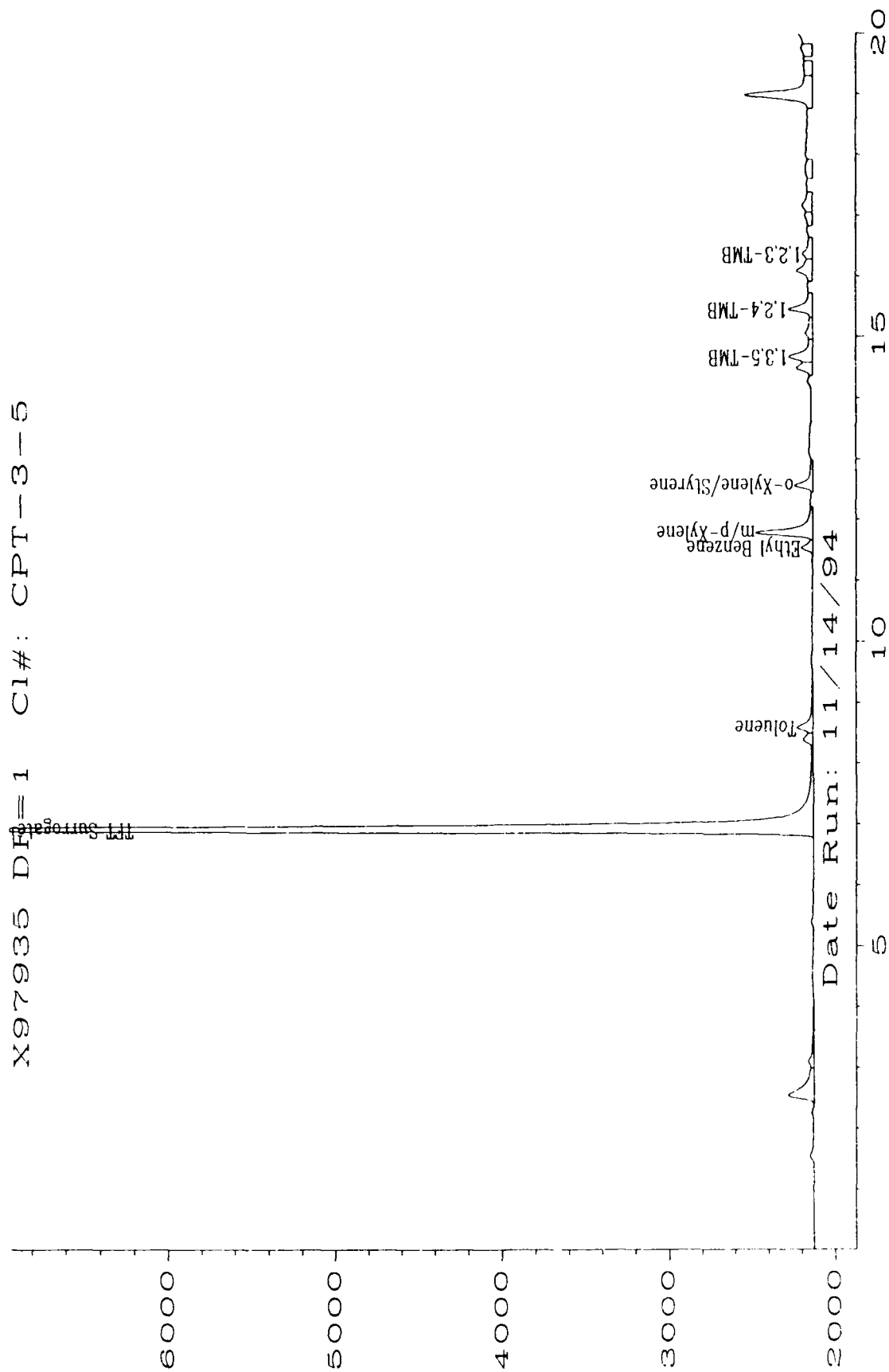


Fig. 2 in C:\HPCHEM\2\DATA\BX21114\008R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: CPT-20-6.8	Client Project No.	: Madison ANG
Lab Sample Number	: X97936	Lab Project No.	: 94-4373
Date Sampled	: 11/7/94	Dilution Factor	: 1.00
Date Received	: 11/9/94	Method	: 8020
Date Extracted/Prepared	: 11/11/94	Matrix	: Soil
Date Analyzed	: 11/11/94	Lab File No.	: BX1111110
Methanol Extract?	: No	Method Blank No.	: MB1111194

Compound Name	Cas Number	Sample Concentration**		PQL
		ug/kg		ug/kg
Benzene	71-43-2	U		4.3
Toluene	108-88-3	1.5	J	4.3
Ethyl Benzene	100-41-4	0.4	J	4.3
Total Xylene (m/p + o)	1330-20-7	2.2	J	4.3
1,3,5-trimethylbenzene	108-67-8	U		4.3
1,2,4-trimethylbenzene	95-63-6	U		4.3
1,2,3-trimethylbenzene	526-73-8	U		4.3

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 90%
QC Reporting Limits : 55%-127%

QUALIFIERS:

** = All sample results & PQLs are reported on a dry weight basis.

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

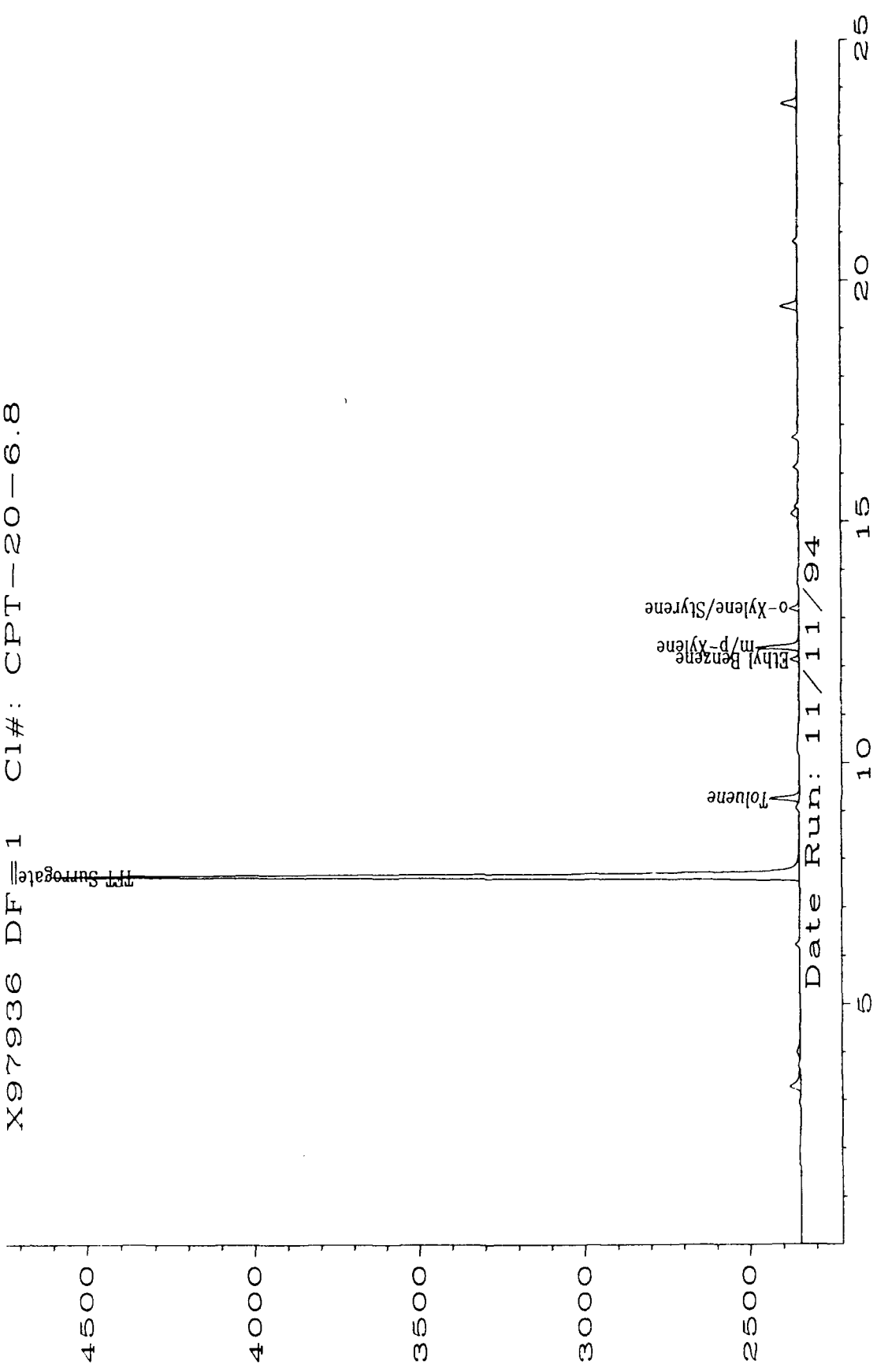
PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available

Analyst

Approved

X97936 DF=1 Cl#: CPT-20-6.8



Sig. 1 in C:\HPCHEM\1\DATA\BX11111\010F0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: CPT-7-7.8	Client Project No.	: Madison ANG
Lab Sample Number	: X97937	Lab Project No.	: 94-4373
Date Sampled	: 11/7/94	Dilution Factor	: 1.00
Date Received	: 11/9/94	Method	: 8020
Date Extracted/Prepared	: 11/11/94	Matrix	: Soil
Date Analyzed	: 11/11/94	Lab File No.	: BX1111111
Methanol Extract?	: No	Method Blank No.	: MB111194

Compound Name	Cas Number	Sample Concentration** ug/kg	PQL ug/kg
Benzene	71-43-2	U	4.7
Toluene	108-88-3	U	4.7
Ethyl Benzene	100-41-4	U	4.7
Total Xylene (m/p + o)	1330-20-7	U	4.7
1,3,5-trimethylbenzene	108-67-8	U	4.7
1,2,4-trimethylbenzene	95-63-6	U	4.7
1,2,3-trimethylbenzene	526-73-8	U	4.7

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 88%
QC Reporting Limits : 55%-127%

QUALIFIERS:

** = All sample results & PQLs are reported on a dry weight basis.

E = Extrapolated value

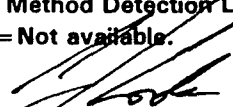
U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

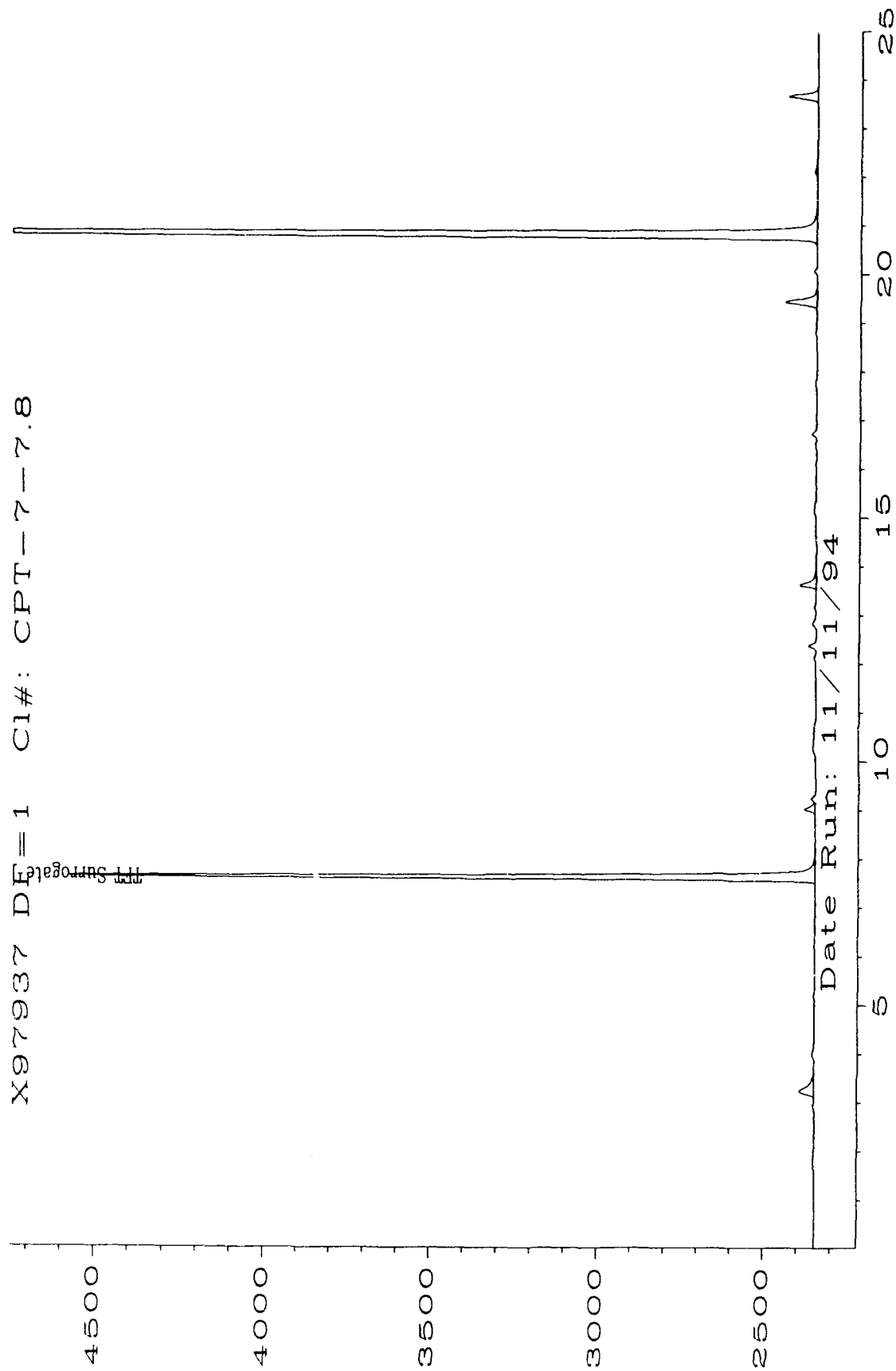
PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.


Analyst


Approved

X97937 DF=1 Cl#: CPT-7-7.8



Sig. 1 in C:\NHP\CHEM\1\DATA\BX11111\O11FO101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: CPT-9-5.5	Client Project No.	: Madison ANG
Lab Sample Number	: X97938	Lab Project No.	: 94-4373
Date Sampled	: 11/7/94	Dilution Factor	: 1.00
Date Received	: 11/9/94	Method	: 8020
Date Extracted/Prepared	: 11/11/94	Matrix	: Soil
Date Analyzed	: 11/11/94	Lab File No.	: BX1111114
Methanol Extract?	: No	Method Blank No.	: MB111194

Compound Name	Cas Number	Sample Concentration** ug/kg	PQL ug/kg
Benzene	71-43-2	U	4.5
Toluene	108-88-3	U	4.5
Ethyl Benzene	100-41-4	U	4.5
Total Xylene (m/p + o)	1330-20-7	U	4.5
1,3,5-trimethylbenzene	108-67-8	U	4.5
1,2,4-trimethylbenzene	95-63-6	U	4.5
1,2,3-trimethylbenzene	526-73-8	U	4.5

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 82%
QC Reporting Limits : 55%-127%

QUALIFIERS:

** = All sample results & PQLs are reported on a dry weight basis.

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

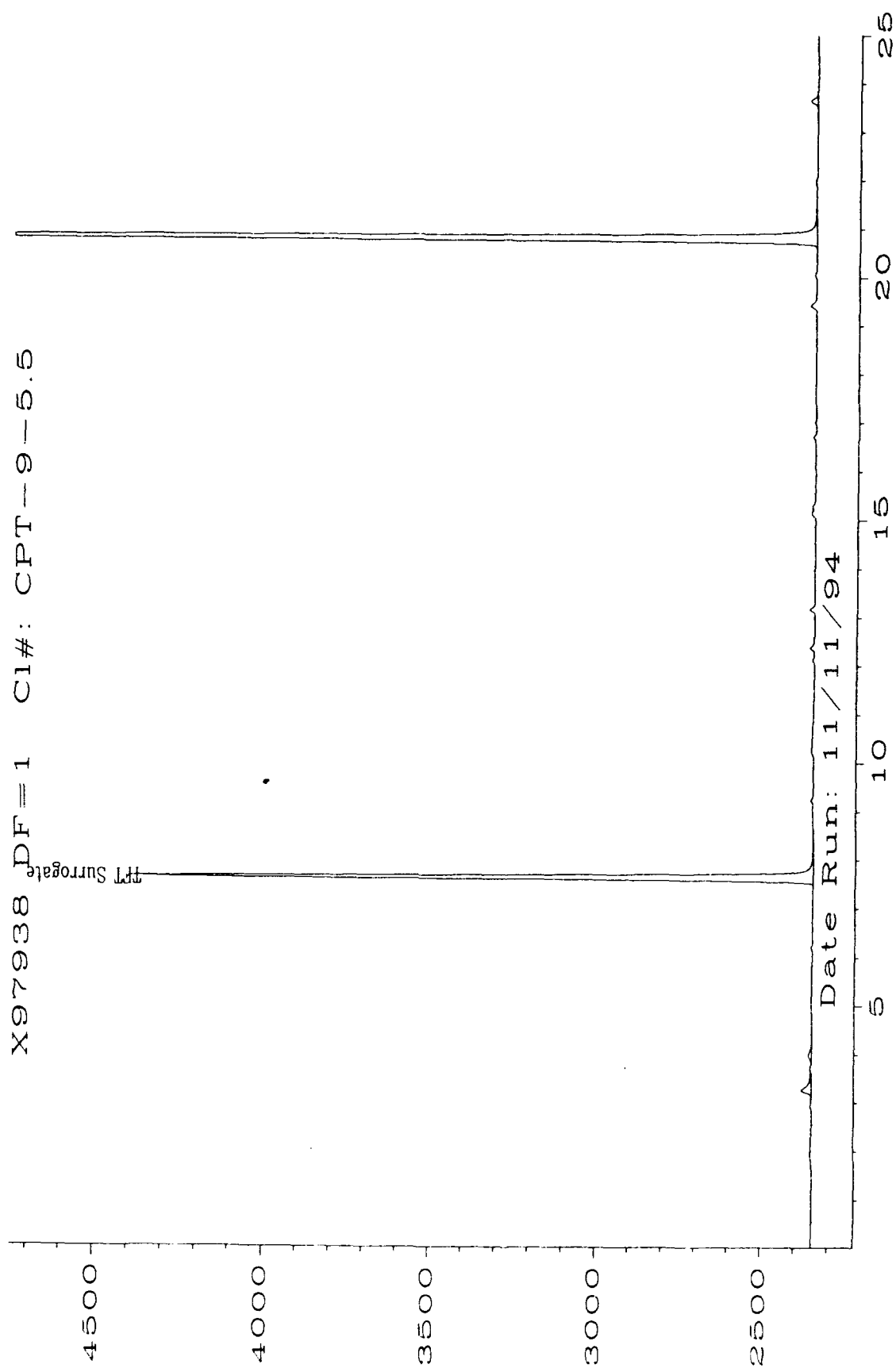
PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.

Analyst

Approved

X97938 DF=1 C1#: CPT-9-5.5



Sig. 1 in C:\HPCHEM\1\DATA\BX11111\O14FO1O1.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: CPT-21-5.5	Client Project No	: Madison ANG
Lab Sample Number	: X97939	Lab Project No.	: 94-4373
Date Sampled	: 11/7/94	Dilution Factor	: 1.00
Date Received	: 11/9/94	Method	: 8020
Date Extracted/Prepared	: 11/11/94	Matrix	: Soil
Date Analyzed	: 11/11/94	Lab File No.	: BX1111115
Methanol Extract?	: No	Method Blank No.	: MB111194

Compound Name	Cas Number	Sample Concentration** ug/kg	PQL ug/kg
Benzene	71-43-2	U	4.5
Toluene	108-88-3	U	4.5
Ethyl Benzene	100-41-4	U	4.5
Total Xylene (m/p + o)	1330-20-7	U	4.5
1,3,5-trimethylbenzene	108-67-8	U	4.5
1,2,4-trimethylbenzene	95-63-6	U	4.5
1,2,3-trimethylbenzene	526-73-8	U	4.5

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 68%
QC Reporting Limits : 55%-127%

QUALIFIERS:

** = All sample results & PQLs are reported on a dry weight basis.

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

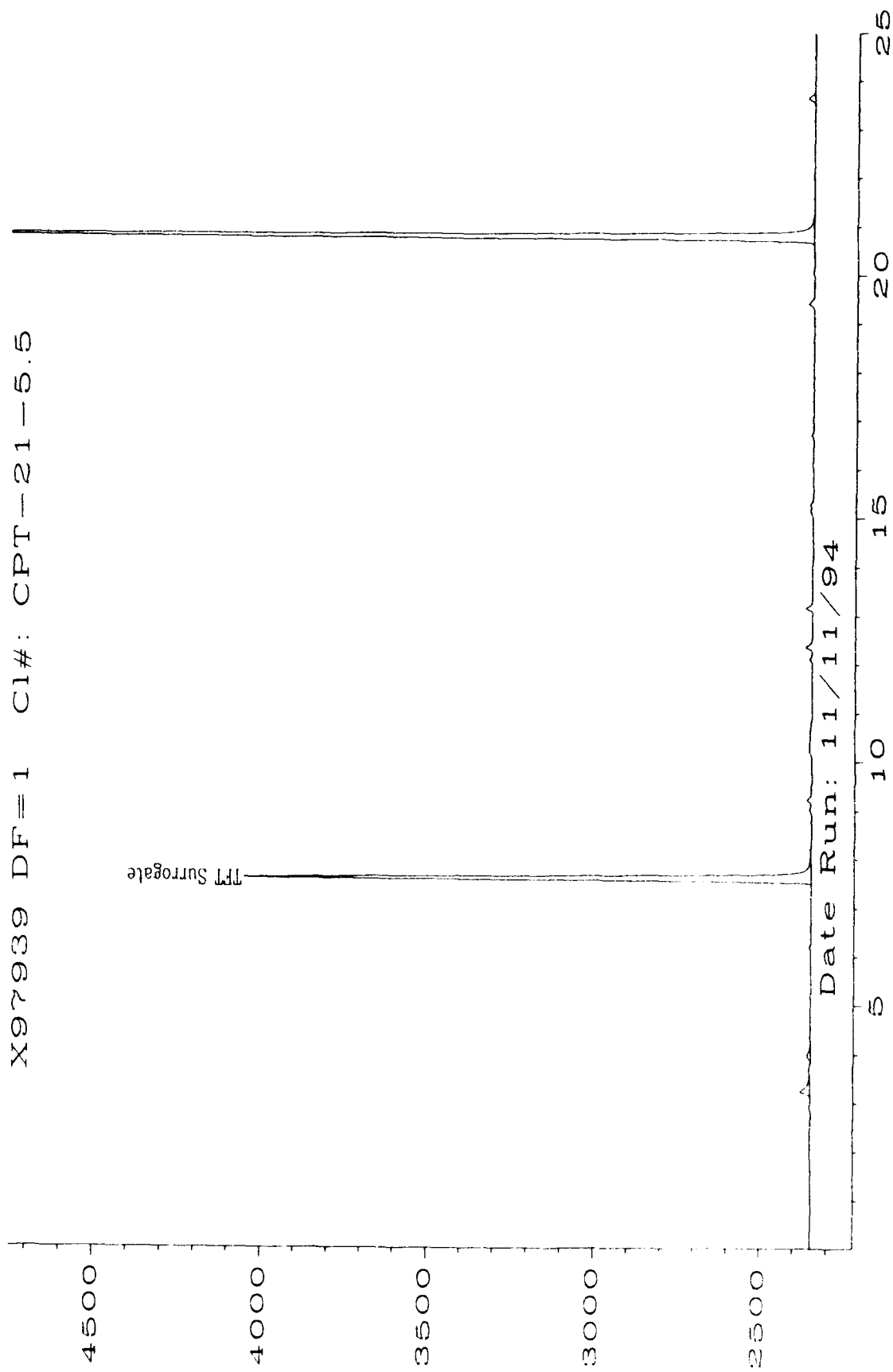
PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.

Analyst

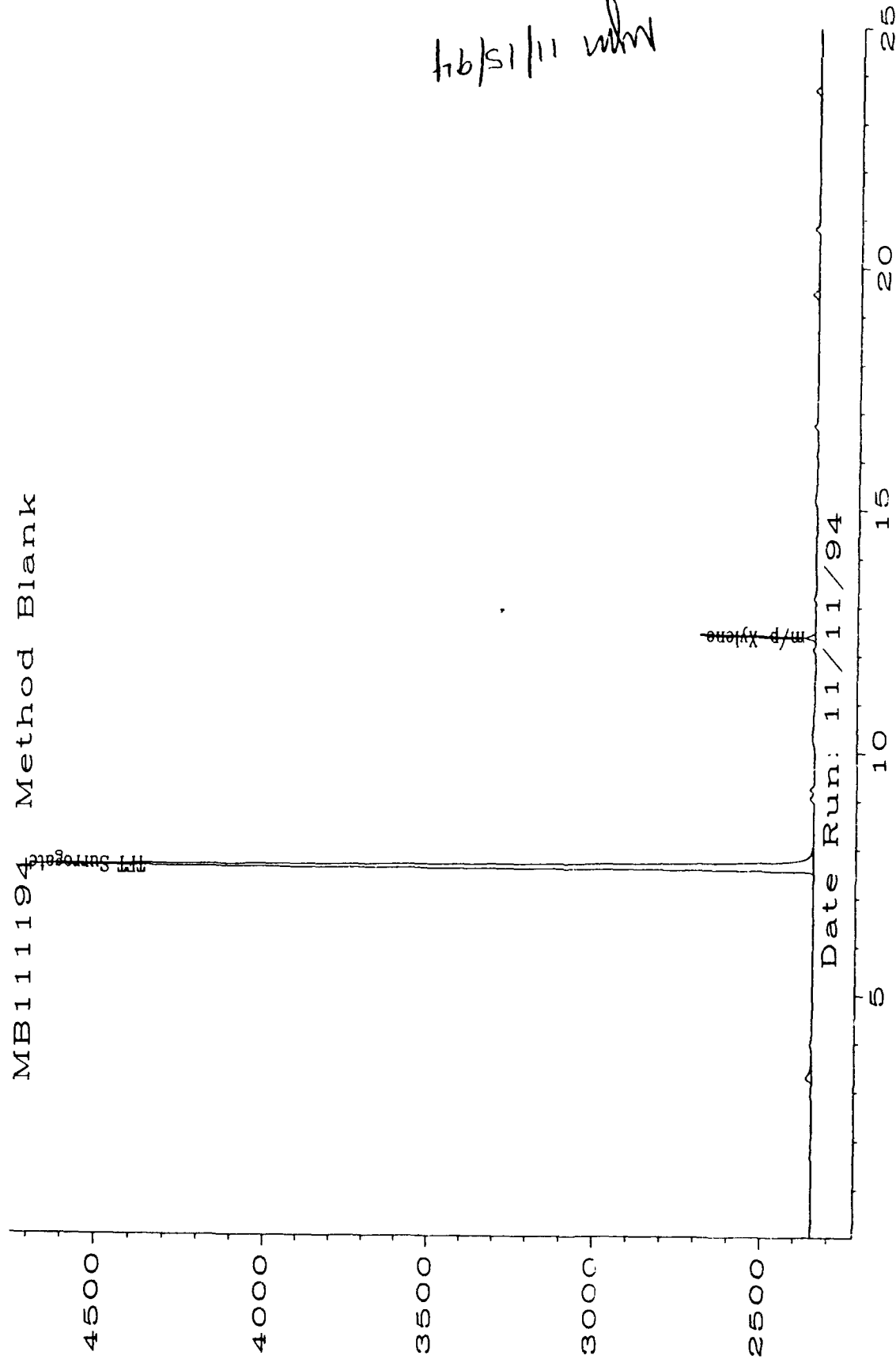
Approved

X97939 DF=1 Cl#: CPT-21-5.5



Sig. 1 in C:\HPCHEM\1\DATA\BX1111\O15FO101.D

MB1111194 Method Blank



Sig. 1 in C:\HPCHEM\1\DATA\BX11111\003F0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Method Blank Report

Method Blank Number	: MB111294	Client Project No.	: Madison ANG
Date Extracted/Prepared	: 11/12/94	Lab Project No.	: 94-4373
Date Analyzed	: 11/12/94	Dilution Factor	: 1.00
		Method	: 8020
		Matrix	: Water
		Lab File No.	: BX2111203

Compound Name	Cas Number	Sample Concentration ug/L	PQL ug/L
Benzene	71-43-2	U	4
Toluene	108-88-3	0.4 J	4
Ethyl Benzene	100-41-4	U	4
Total Xylene (m/p + o)	1330-20-7	0.4 J	4
1,3,5-trimethylbenzene	108-67-8	U	4
1,2,4-trimethylbenzene	95-63-6	U	4
1,2,3-trimethylbenzene	526-73-8	U	4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 105%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

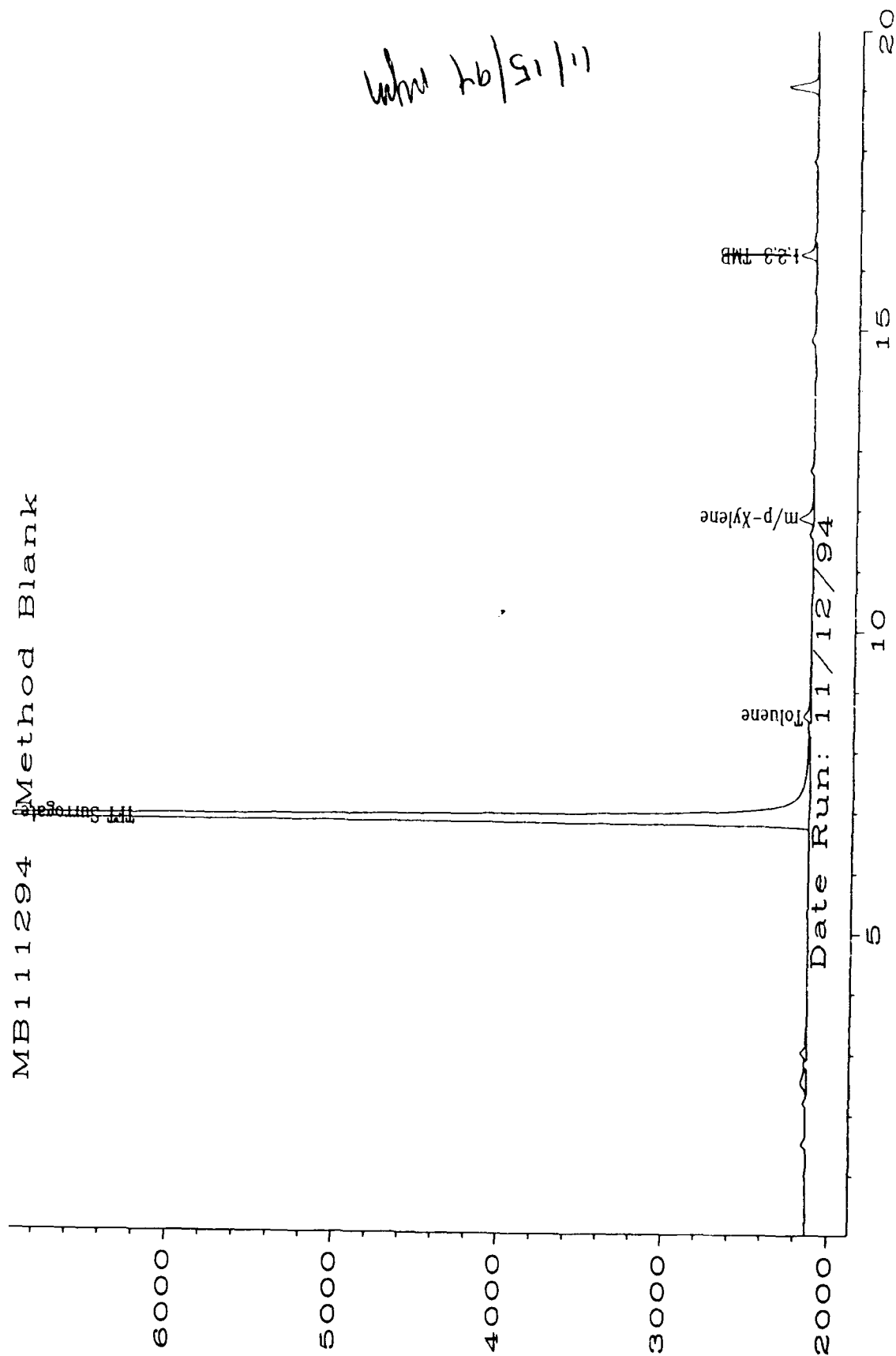
PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.

Analyst

Approved

MB111294 Method Blank



Sig. 2 in C:\HPCHEM\2\DATA\BX21112\003R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Method Blank Report

Method Blank Number	: MB111494	Client Project No.	: Madison ANG
Date Extracted/Prepared	: 11/14/94	Lab Project No.	: 94-4373
Date Analyzed	: 11/14/94	Dilution Factor	: 1.00
		Method	: 8020
		Matrix	: Water
		Lab File No.	: BX2111403

Compound Name	Cas Number	Sample Concentration ug/L	PQL ug/L
Benzene	71-43-2	U	4
Toluene	108-88-3	0.4 J	4
Ethyl Benzene	100-41-4	U	4
Total Xylene (m/p + o)	1330-20-7	0.4 J	4
1,3,5-trimethylbenzene	108-67-8	U	4
1,2,4-trimethylbenzene	95-63-6	U	4
1,2,3-trimethylbenzene	526-73-8	U	4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Note: High surrogate recovery due to increased sensitivity of initial runs.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 119%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

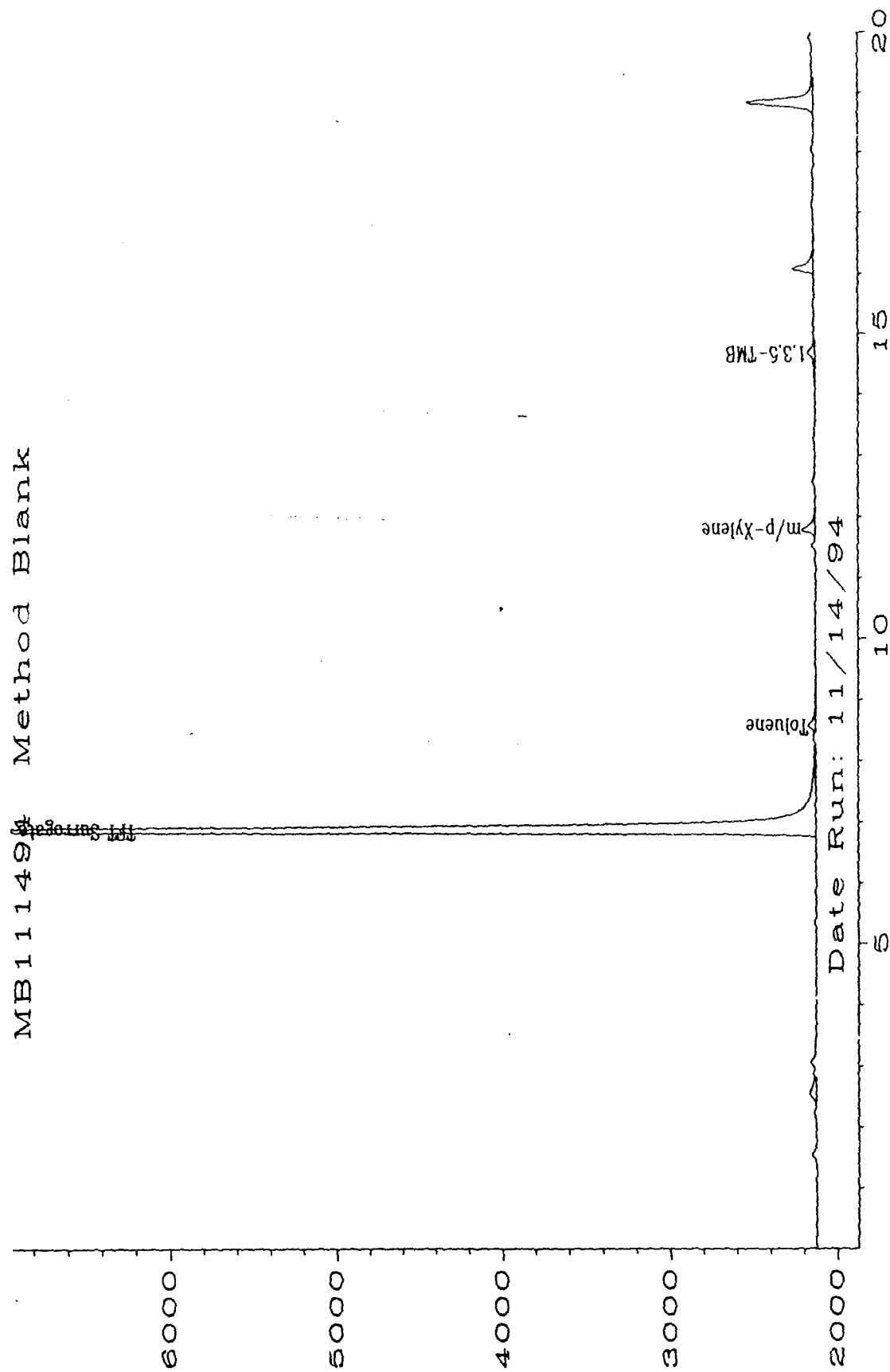
PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.

Analyst

Approved

MB111494 Method Blank



Sig. 2 in C:\HPCHEM\2\DATA\BX21114\003R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Laboratory Control Sample (LCS)

LCS Number	: LCS111494	Client Project No.	: Madison ANG
Date Extracted/Prepared	: 11/14/94	Lab Project No.	: 94-4373
Date Analyzed	: 11/14/94	Dilution Factor	: 1.00
		Method	: 8020
		Matrix	: Water
		Lab File No.	: BX2111411

Compound Name	Cas Number	LCS	QC Limit
		Concentration ug/L	
Benzene	71-43-2	30	29-47
Toluene	108-88-3	38	30-42
Ethyl Benzene	100-41-4	42	31-43
m/p-Xylene	NA	43	31-42
o-Xylene	95-47-6	42	31-42
1,3,5-trimethylbenzene	108-67-8	34	NA
1,2,4-trimethylbenzene	95-63-6	33	NA
1,2,3-trimethylbenzene	526-73-8	38	NA

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:
a,a,a,-Trifluorotoluene : 92%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value

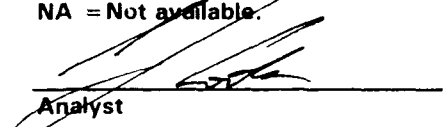
U = Compound analyzed for, but not detected.

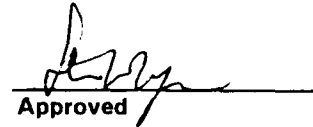
B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.


Analyst


Approved

LCS111494

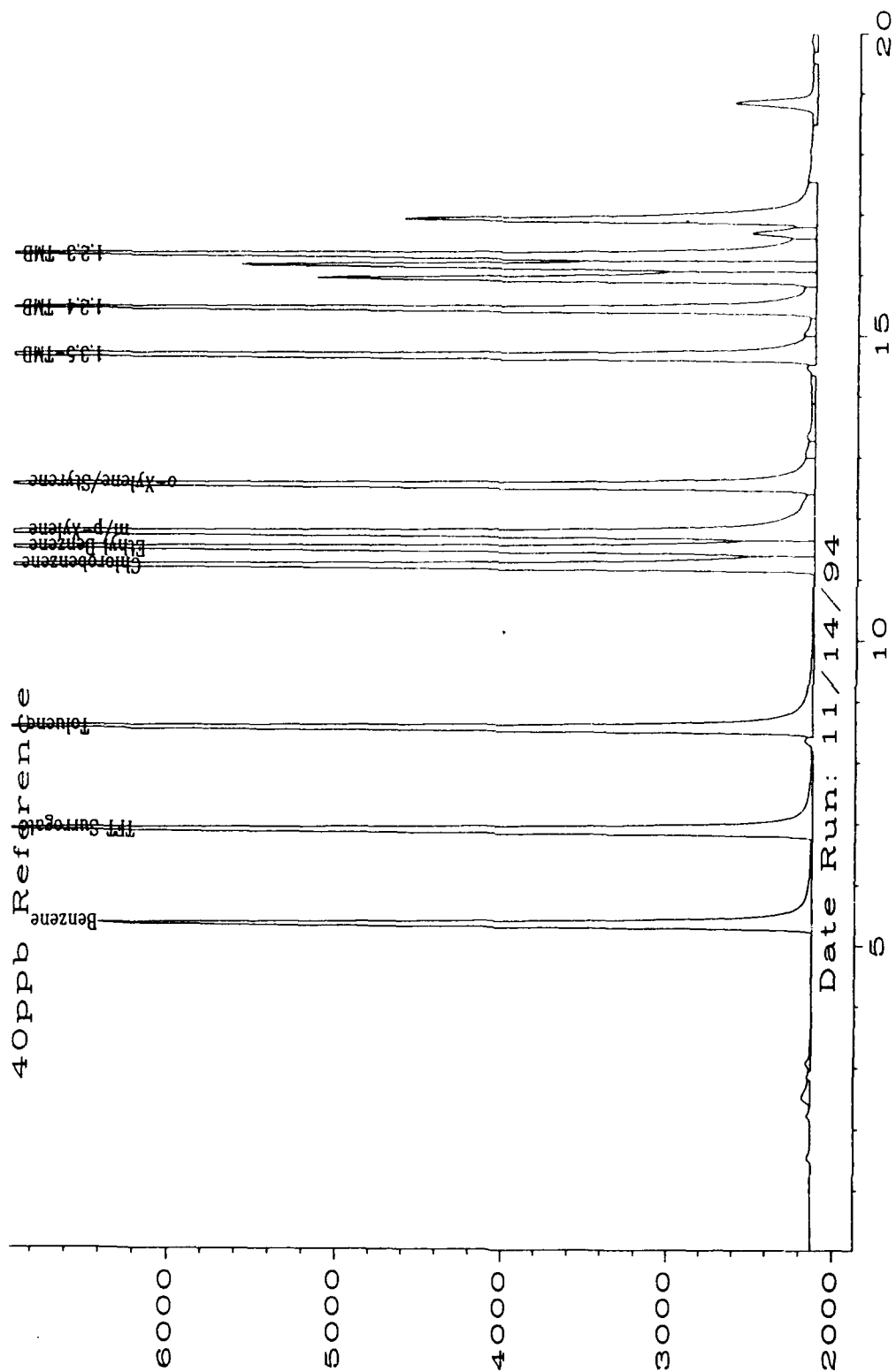


Fig. 2 in C:\HPCHEM\2\DATA\BX21114\011R0101.D

Evergreen Analytical, Inc.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

BTEX Water Matrix Spike/Matrix Spike Duplicate Data Report

Client Sample No.	: CPT-19S	Client Project No.	: Madison ANG
Lab Sample No.	: X97931	Lab Project No.	: 94-4373
Date Sampled	: 11/7/94	EPA Method No.	: 602
Date Received	: 11/9/94	Matrix	: Water
Date Prepared	: 11/10/94	Lab File Number(s)	: BX1111019,20
Date Analyzed	: 11/11/94	Method Blank	: MB111194

Compound	Spike Added (ug/L)	Sample Concentration (ug/L)	MS Concentration (ug/L)	MS %REC	QC Limits %REC
Benzene	20	0	16.8	84	65-121
Toluene	20	0.6	16.7	80.5	69-117
Ethyl Benzene	20	0.7	16.8	80.5	68-118
m/p-Xylene	20	2.5	16.5	70	66-116
o-Xylene	20	1.8	17.3	77.5	73-117
1,3,5-TMB	20	3.3	18	73.5	65-121
1,2,4-TMB	20	7.7	17.9	51*	65-121
1,2,3-TMB	20	2.1	18.8	83.5	65-121

Compound	Spike Added (ug/L)	MSD Concentration (ug/L)	MS %REC	RPD	QC Limits	
					RPD	%REC
Benzene	20	10.9	54.5*	42.6 *	17.4	65-121
Toluene	20	10.6	50*	46.7 *	15.8	69-117
Ethyl Benzene	20	10.7	50*	46.7 *	11.9	68-118
m/p-Xylene	20	10.3	39*	56.9 *	15.4	66-116
o-Xylene	20	11.4	48*	47.0 *	13.2	73-117
1,3,5-TMB	20	10.8	37.5*	64.9 *	17.4	65-121
1,2,4-TMB	20	11.5	19*	91.4 *	17.4	65-121
1,2,3-TMB	20	12.7	53*	44.7 *	17.4	65-121

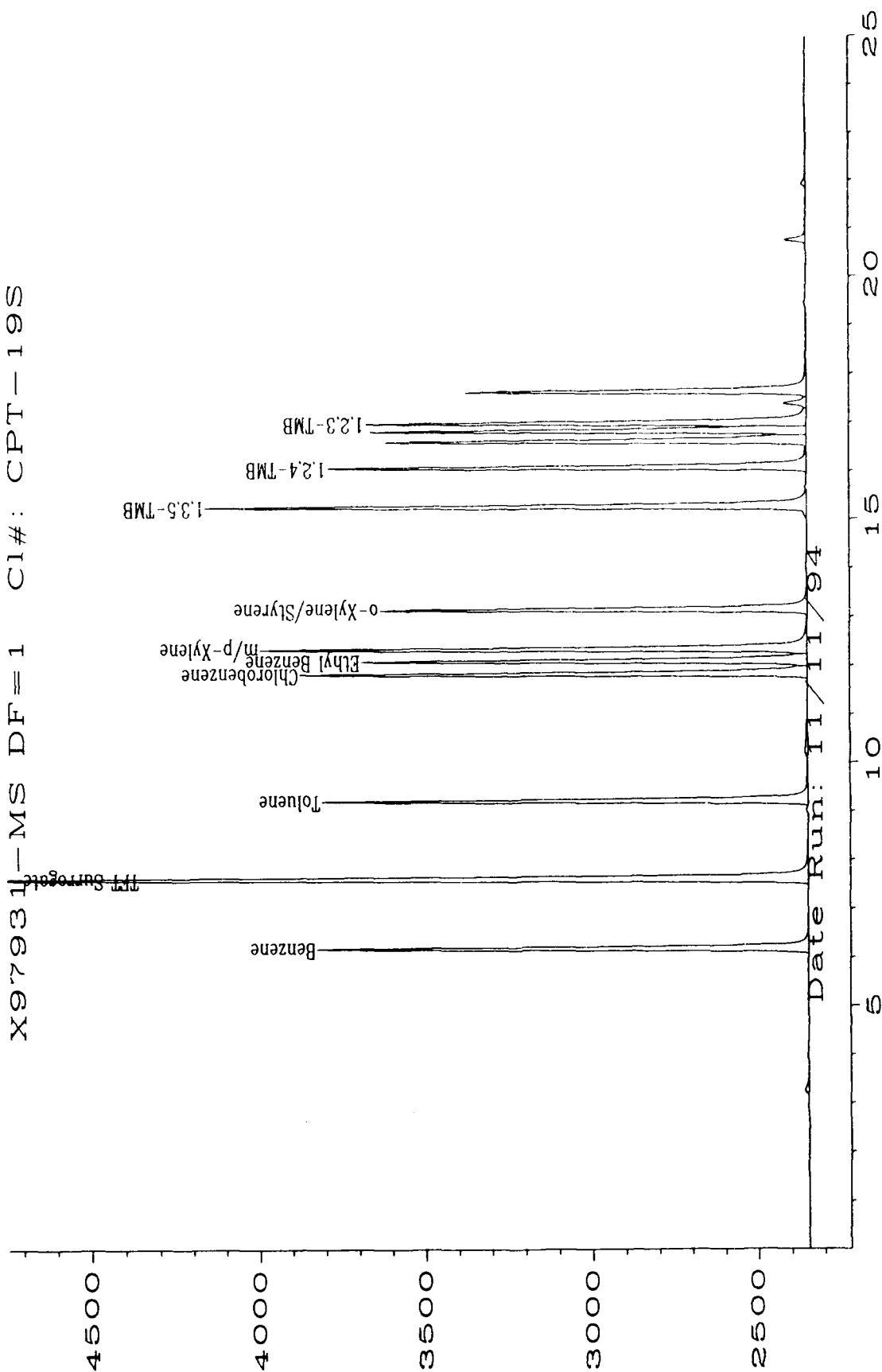
* = Values outside of QC limits.

RPD: 8 out of (8) outside limits.

Spike Recovery: 9 out of (16) outside limits.

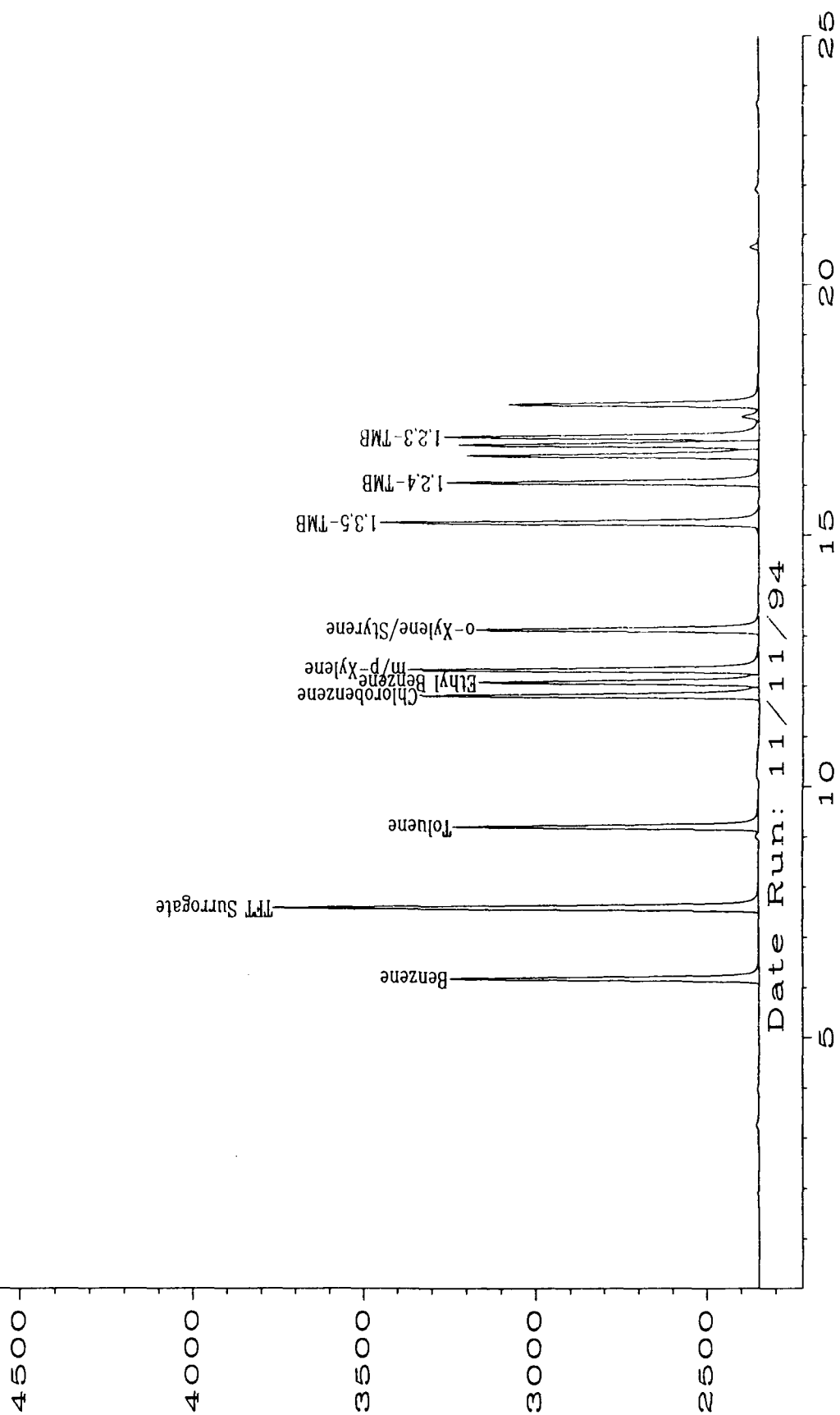
Comments: CJC
MS surrogate recovery: 92%. MSD surrogate recovery: 47%.

X97931-MS DF=1 Cl#: CPT-19S



Sig. 1 in C:\HPCHEM\1\DATA\BX11110\019F0101.D

X97931-MSD DF=1 Cl#: CPT-19S



Sig. 1 in C:\HPCHEM\1\DATA\BX11110\020F0101.D

Evergreen Analytical, Inc.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

BTEX Water Matrix Spike/Matrix Spike Duplicate Data Report

Client Sample No.	: CPT-3-5	Client Project No.	: Madison ANG
Lab Sample No.	: X97935	Lab Project No.	: 94-4373
Date Sampled	: 11/7/94	EPA Method No.	: 8020
Date Received	: 11/9/94	Matrix	: Soil
Date Prepared	: 11/11/94	Lab File Number(s)	: BX1111118,19
Date Analyzed	: 11/12/94	Method Blank	: MB111194

Compound	Spike Added (ug/L)	Sample Concentration (ug/L)	MS Concentration (ug/L)	MS %REC	QC Limits %REC
Benzene	20	0	17.3	86.5	65-121
Toluene	20	0.5	17.2	83.5	69-117
Ethyl Benzene	20	0	17.1	85.5	68-118
m/p-Xylene	20	0.4	17.4	85	66-116
o-Xylene	20	0	17.1	85.5	73-117
1,3,5-TMB	20	0	16.0	80	65-121
1,2,4-TMB	20	0.5	16.1	78	65-121
1,2,3-TMB	20	0	17.3	86.5	65-121

Compound	Spike Added (ug/L)	MSD Concentration (ug/L)	MS %REC	RPD	QC Limits	
					RPD	%REC
Benzene	20	16.2	81	6.6	17.4	65-121
Toluene	20	16.2	78.5	6.2	15.8	69-117
Ethyl Benzene	20	16.0	80	6.6	11.9	68-118
m/p-Xylene	20	16.1	78.5	8.0	15.4	66-116
o-Xylene	20	16.0	80	6.6	13.2	73-117
1,3,5-TMB	20	15.1	75.5	5.8	17.4	65-121
1,2,4-TMB	20	15.1	73	6.6	17.4	65-121
1,2,3-TMB	20	15.9	79.5	8.4	17.4	65-121

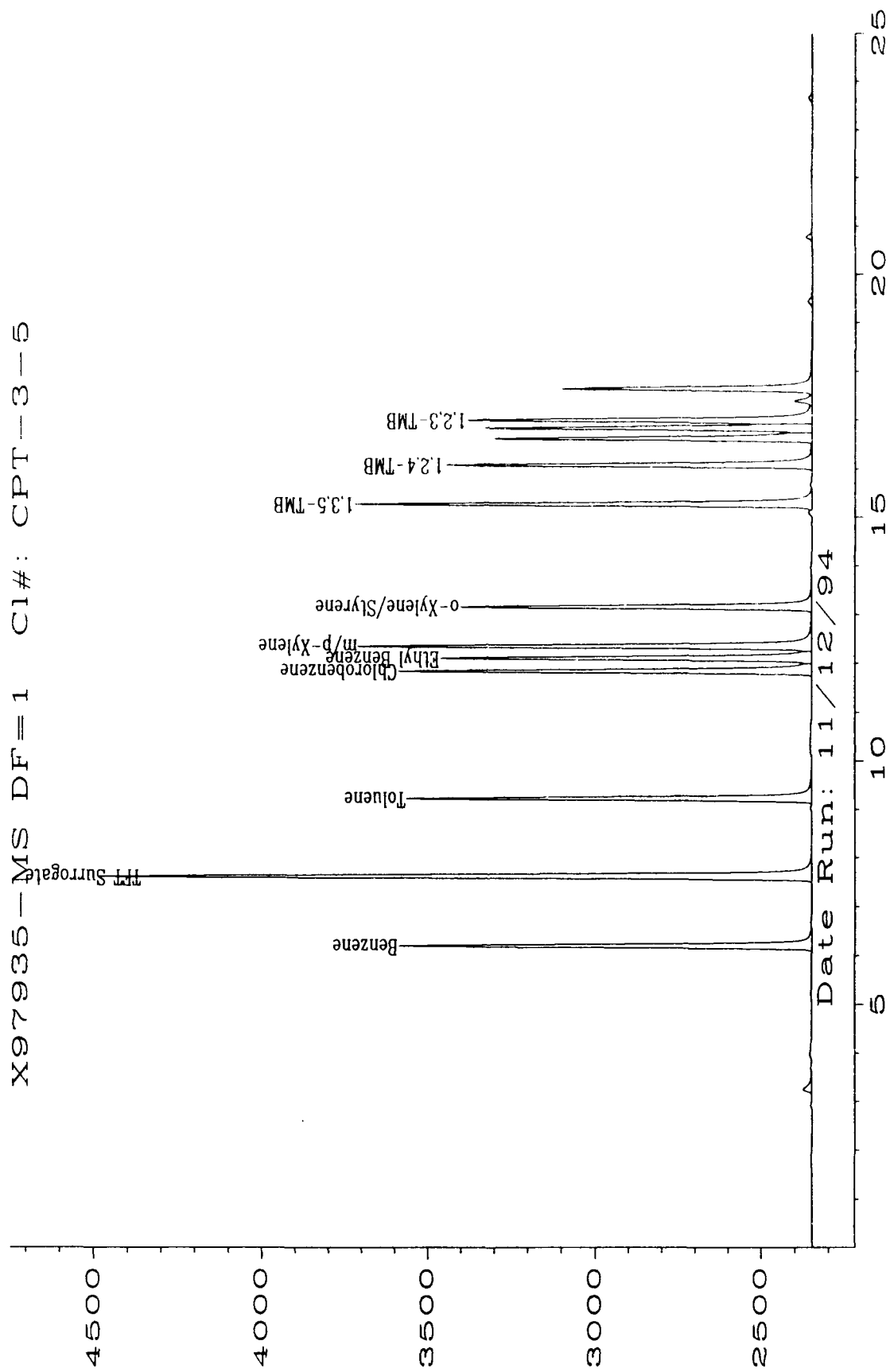
* = Values outside of QC limits.

RPD: 0 out of (8) outside limits.

Spike Recovery: 0 out of (16) outside limits.

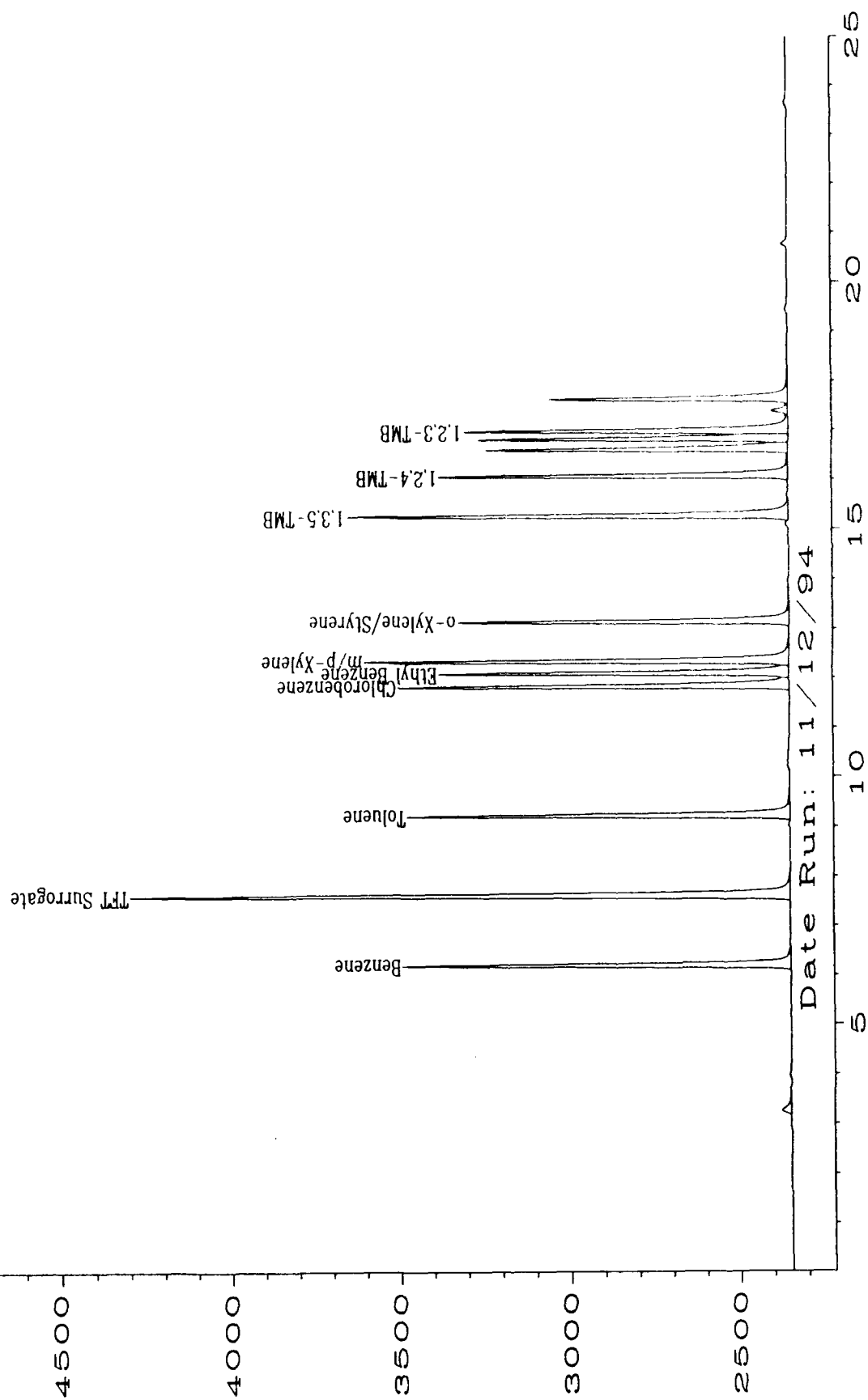
Comments: CJC

X97935-MS DF=1 C1#: CPT-3-5



Sig. 1 in C:\HPCHEM\1\DATA\BX11111\018F0101.D

X97935 - MSD DF=1 C1#: CPT-3-5



Sig. 1 in C:\HPCHEM\1\DATA\BX1111\O19FO1O1.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Laboratory Control Sample (LCS)

LCS Number	: LCS111094	Client Project No.	: Madison ANG
Date Extracted/Prepared	: 11/10/94	Lab Project No.	: 94-4373
Date Analyzed	: 11/10/94	Dilution Factor	: 1.00
		Method	: 8020
		Matrix	: Water
		Lab File No.	: BX1111011

Compound Name	Cas Number	LCS Concentration ug/L	QC Limit ug/L
Benzene	71-43-2	29	29-47
Toluene	108-88-3	35	30-42
Ethyl Benzene	100-41-4	39	31-43
m/p-Xylene	NA	38	31-42
o-Xylene	95-47-6	39	31-42
1,3,5-trimethylbenzene	108-67-8	33	NA
1,2,4-trimethylbenzene	95-63-6	32	NA
1,2,3-trimethylbenzene	526-73-8	38	NA

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene	: 93%
QC Reporting Limits	: 77%-116%

QUALIFIERS:

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

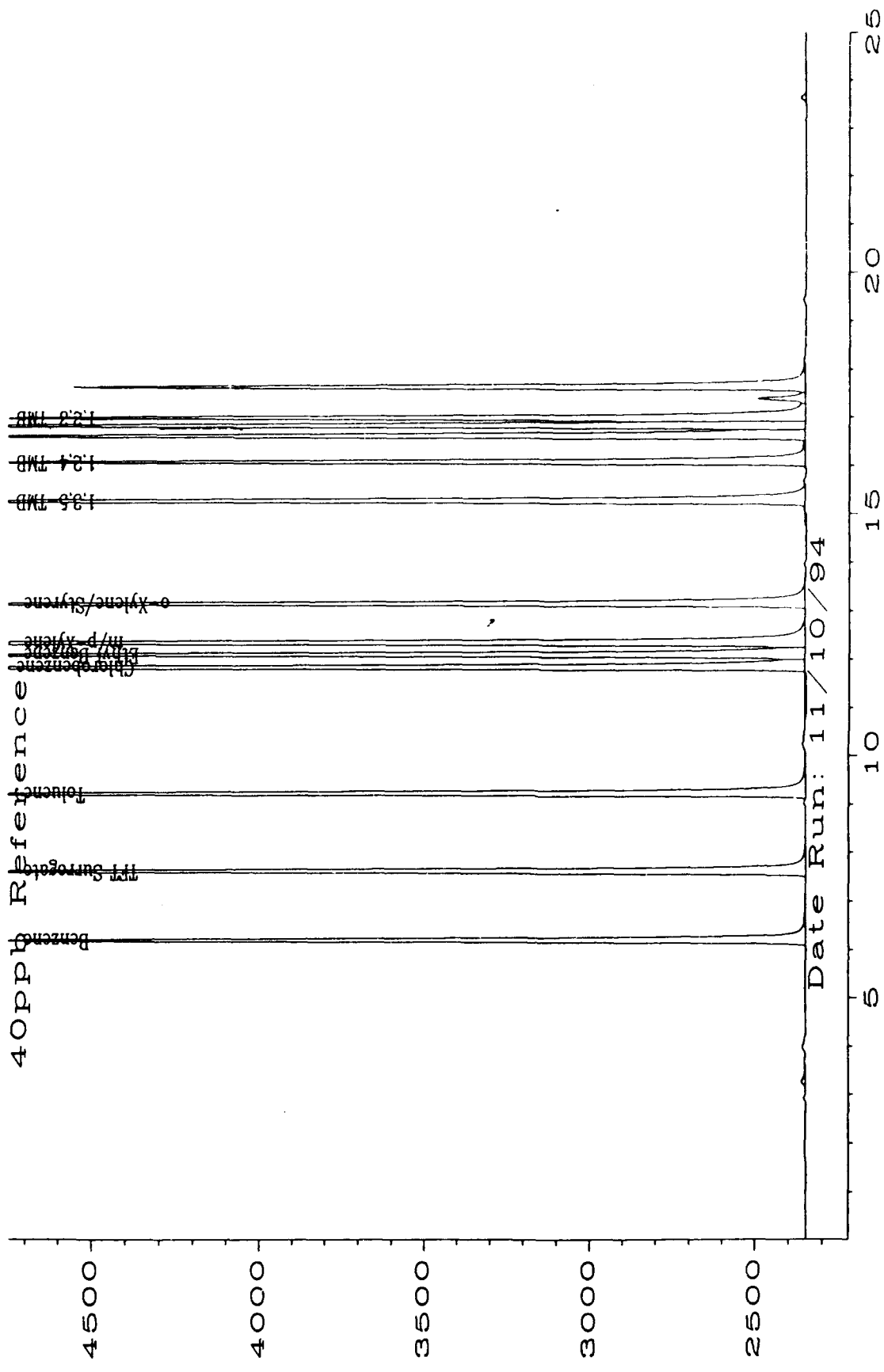
PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.

Analyst

Approved

LCS111094



Sig. 1 in C:\HPCHEM\1\DATA\BX11110\011F0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Laboratory Control Sample (LCS)

LCS Number	: LCS111194	Client Project No.	: Madison ANG
Date Extracted/Prepared	: 11/11/94	Lab Project No.	: 94-4373
Date Analyzed	: 11/11/94	Dilution Factor	: 1.00
		Method	: 8020
		Matrix	: Water
		Lab File No.	: BX1111112

Compound Name	Cas Number	LCS Concentration ug/L	QC Limit ug/L
Benzene	71-43-2	28	29-47
Toluene	108-88-3	34	30-42
Ethyl Benzene	100-41-4	37	31-43
m/p-Xylene	NA	38	31-42
o-Xylene	95-47-6	39	31-42
1,3,5-trimethylbenzene	108-67-8	33	NA
1,2,4-trimethylbenzene	95-63-6	33	NA
1,2,3-trimethylbenzene	526-73-8	38	NA

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 89%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available

Analyst

Approved

40ppb Reference

Date Run: 11/11/94

2500

3000

3500

4000

4500

5

10

15

20

25

Benzene

THT Surrogate

Toluene

Chlorobenzene

m/p Xylene

o Xylene/Styrene

1,2,4-TMB

1,2,3-TMB

Sig. 1 in C:\HPCHEM\1\DATA\BX1111\O12FO1O1.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Laboratory Control Sample (LCS)

LCS Number	: LCS111294	Client Project No.	: Madison ANG
Date Extracted/Prepared	: 11/12/94	Lab Project No.	: 94-4373
Date Analyzed	: 11/12/94	Dilution Factor	: 1.00
		Method	: 8020
		Matrix	: Water
		Lab File No.	: BX2111213

Compound Name	Cas Number	LCS Concentration ug/L	QC Limit ug/L
Benzene	71-43-2	30	29-47
Toluene	108-88-3	37	30-42
Ethyl Benzene	100-41-4	40	31-43
m/p-Xylene	NA	40	31-42
o-Xylene	95-47-6	41	31-42
1,3,5-trimethylbenzene	108-67-8	34	NA
1,2,4-trimethylbenzene	95-63-6	32	NA
1,2,3-trimethylbenzene	526-73-8	37	NA

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a-Trifluorotoluene	: 97%
QC Reporting Limits	: 77%-116%

QUALIFIERS:

E = Extrapolated value

U = Compound analyzed for, but not detected.

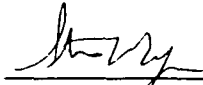
B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

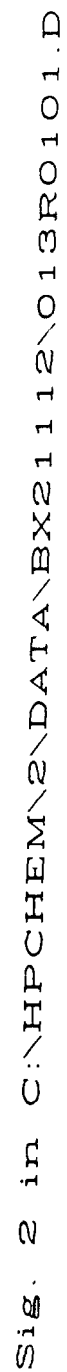
PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.


Analyst


Approved

40ppb | Reference



EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL EXTRACTABLE HYDROCARBONS (TEH)

Date Sampled	: 11/7/94	Client Project Number	: 722450.01000
Date Received	: 11/9/94		Madison ANG
Date Prepared	: 11/9/94	Lab Project Number	: 94-4373
Date Analyzed	: 11/11,12/94	Matrix	: Water
		Method Number	: 3500/Mod.8015

<u>Evergreen Sample #</u>	<u>Client Sample #</u>	<u>Surrogate Recovery</u>	<u>TEH mg/L</u>	<u>MDL mg/L</u>
WB110994	Water Method Blank	90%	U	0.5
X97928	CPT-1D	132%	U	0.5
X97929	CPT-5S	128%	U	0.5
X97930	CPT-5D	110%	U	0.5
X97931	CPT-19S	118%	U	0.5
X97932	CPT-20	117%	U	0.5
X97933	CPT-20 Duplicate	115%	U	0.5

QUALIFIERS

U = TEH analyzed for but not detected.

B = TEH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

MDL = Method Detection Limit



Analyst



Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL EXTRACTABLE HYDROCARBONS (TEH)

Date Sampled	: 11/7/94	Client Project Number	: 722450.01000
Date Received	: 11/9/94		Madison ANG
Date Prepared	: 11/10/94	Lab Project Number	: 94-4373
Date Analyzed	: 11/11,12/94	Matrix	: Soil
		Method Number	: 3500/Mod. 8015

<u>Evergreen Sample #</u>	<u>Client Sample #</u>	<u>Surrogate Recovery</u>	<u>TEH * mg/Kg</u>	<u>MDL mg/Kg</u>
SB111094	Soil Method Blank	114%	U	10
X97935	CPT 3-5	119%	U	10
X97936	CPT 20-6.8	120%	U	11
X97937	CPT 7-7.8	121%	U	12
X97938	CPT 9-5.5	129%	U	11
X97939	CPT 21-5.5	139%	U	11

* = Sample and MDL values are reported on a dry weight basis.

QUALIFIERS

U = TEH analyzed for but not detected.

B = TEH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

MDL = Method Detection Limit

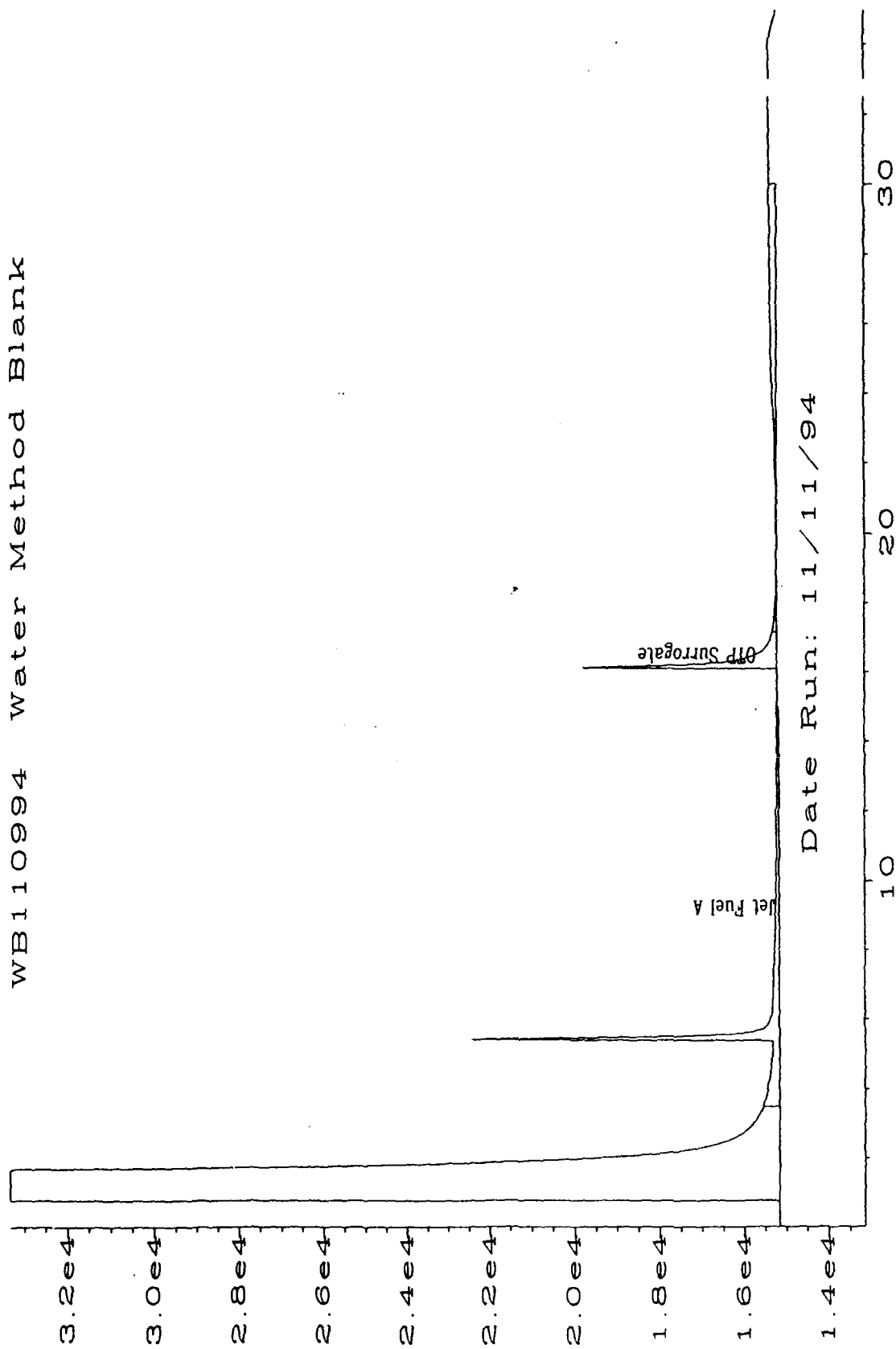


Analyst



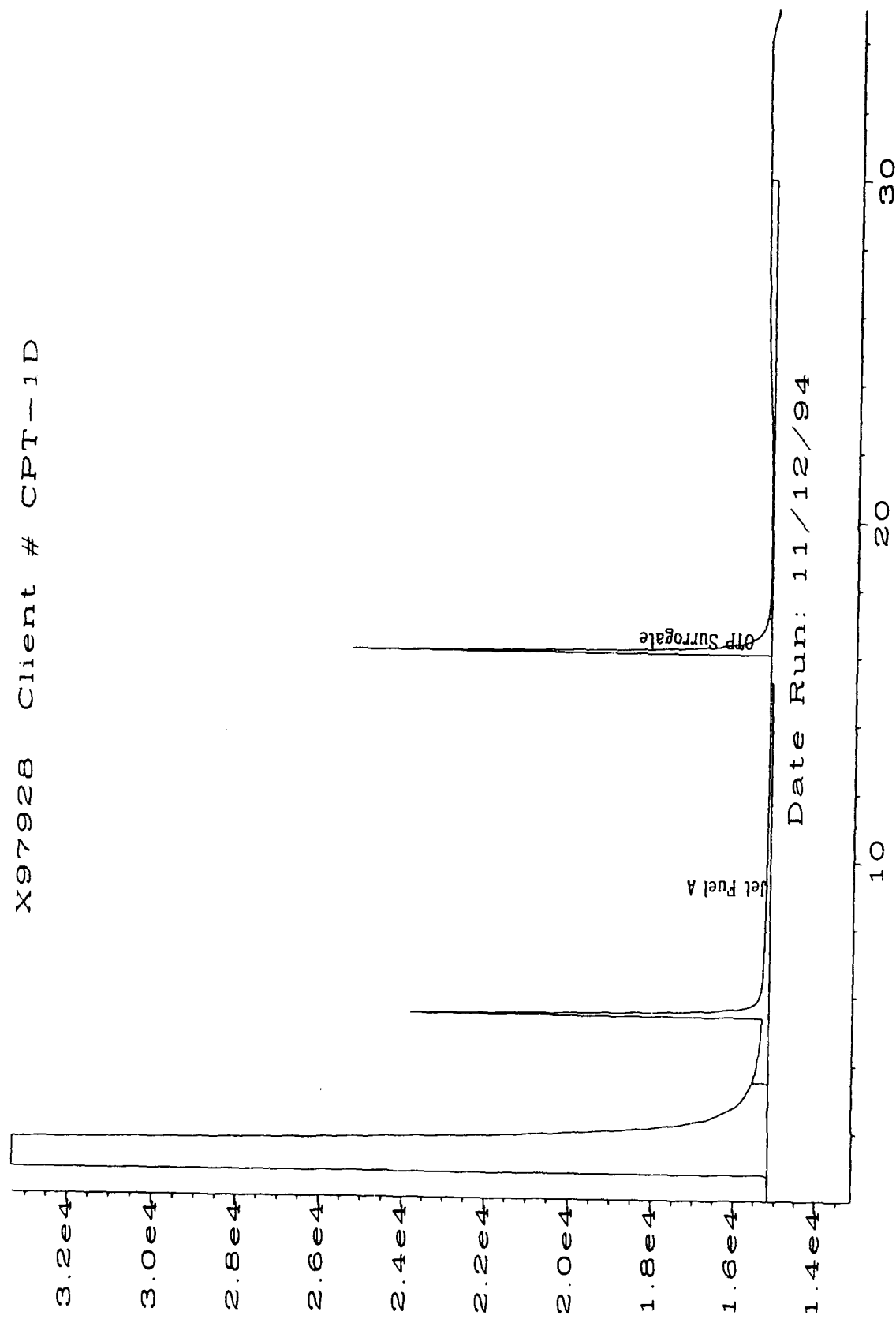
Approved

WB110994 Water Method Blank



Sig. 2 in C:\HPCHEM\2\DATA\TEH1111\008R0101.D

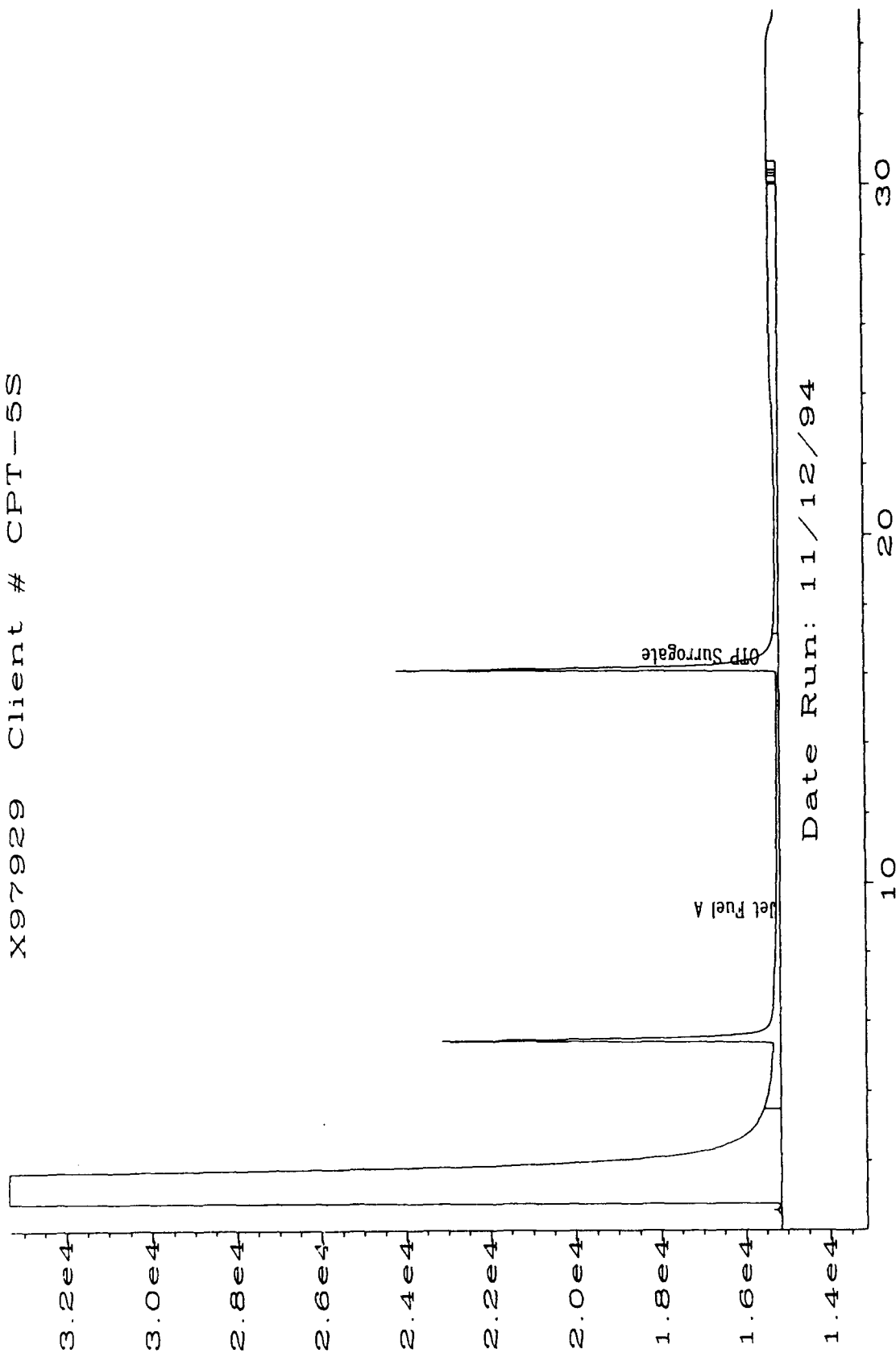
X97928 Client # CPT-1D



Date Run: 11/12/94

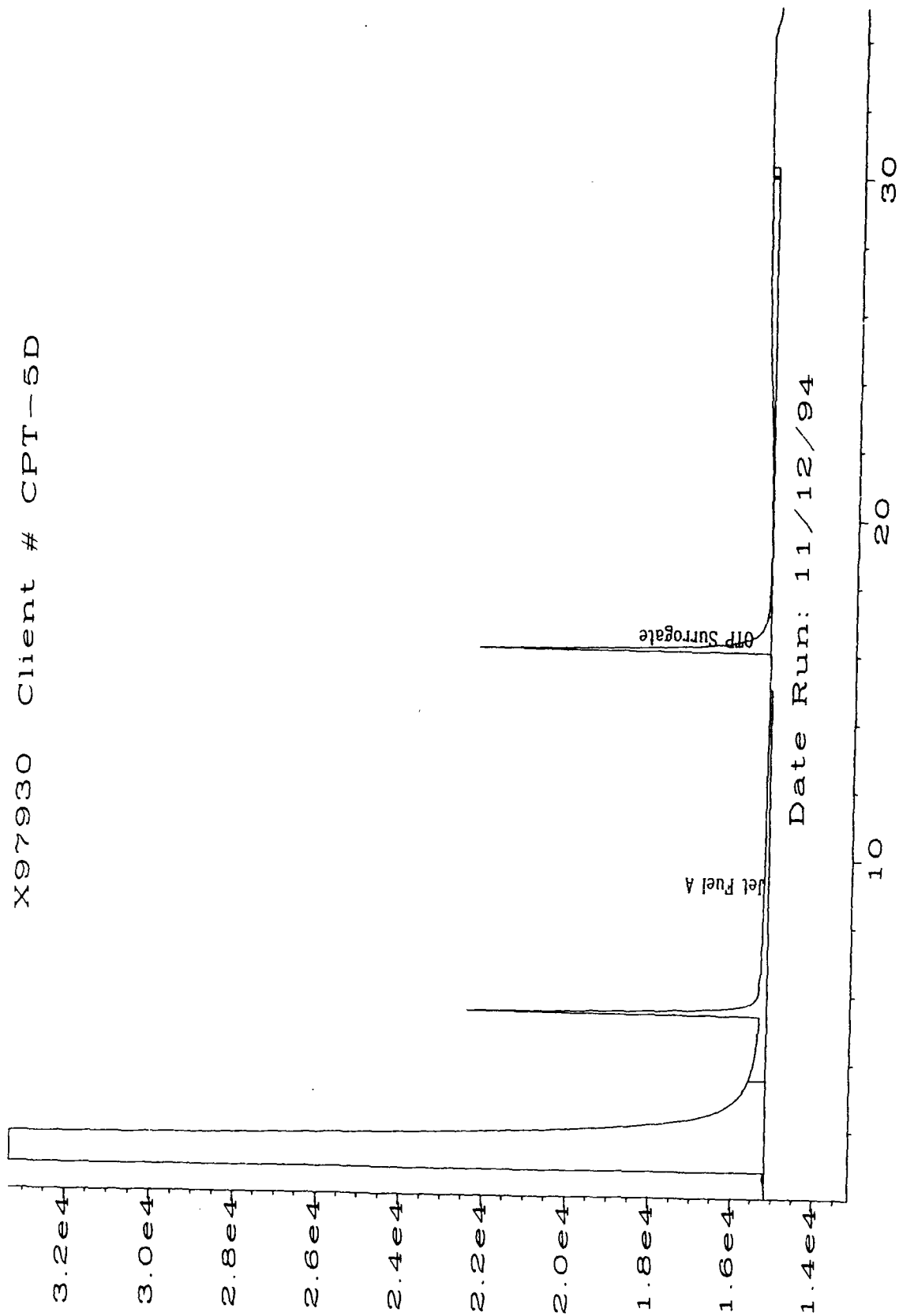
Sig. 2 in C:\HPCHEM\2\DATA\TEH1111\021R0101.D

X97929 Client # CPT-5S



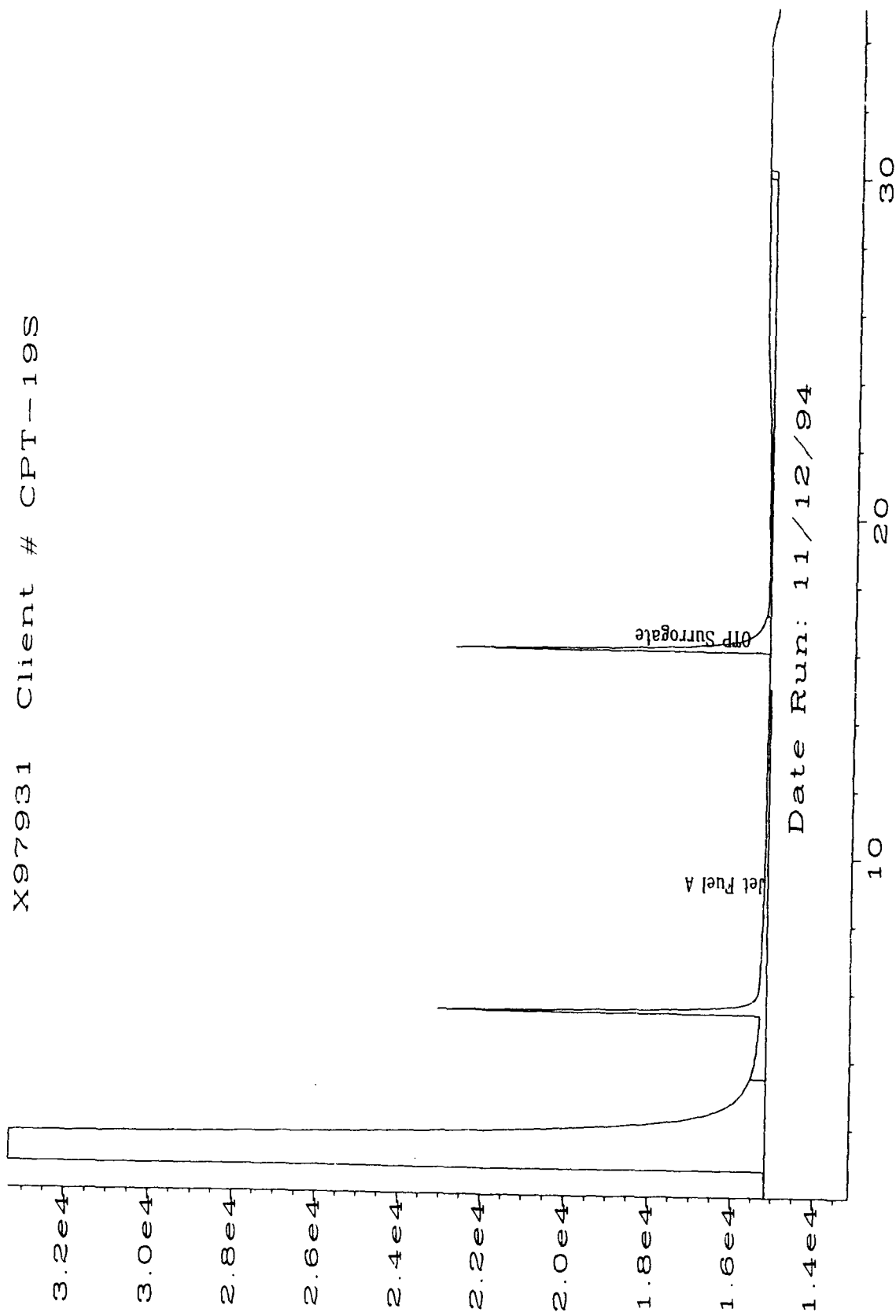
Sig. 2 in C:\HPCHEM\2\DATA\TEH1111\022R0101.D

X97930 Client # CPT-5D



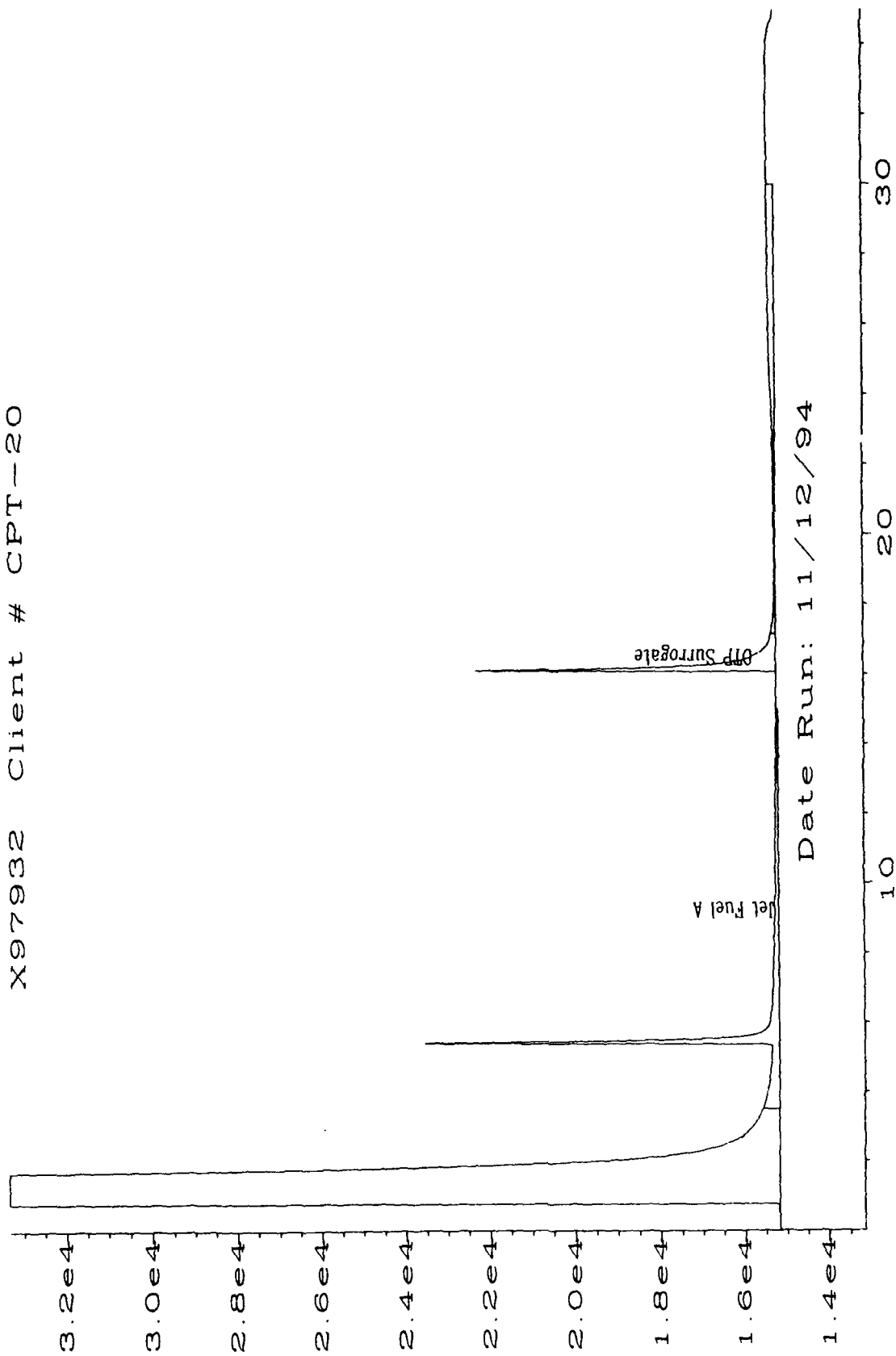
Sig. 2 in C:\HPCHEM\2\DATA\TEH1111\023R0101.D

X97931 Client # CPT-19S



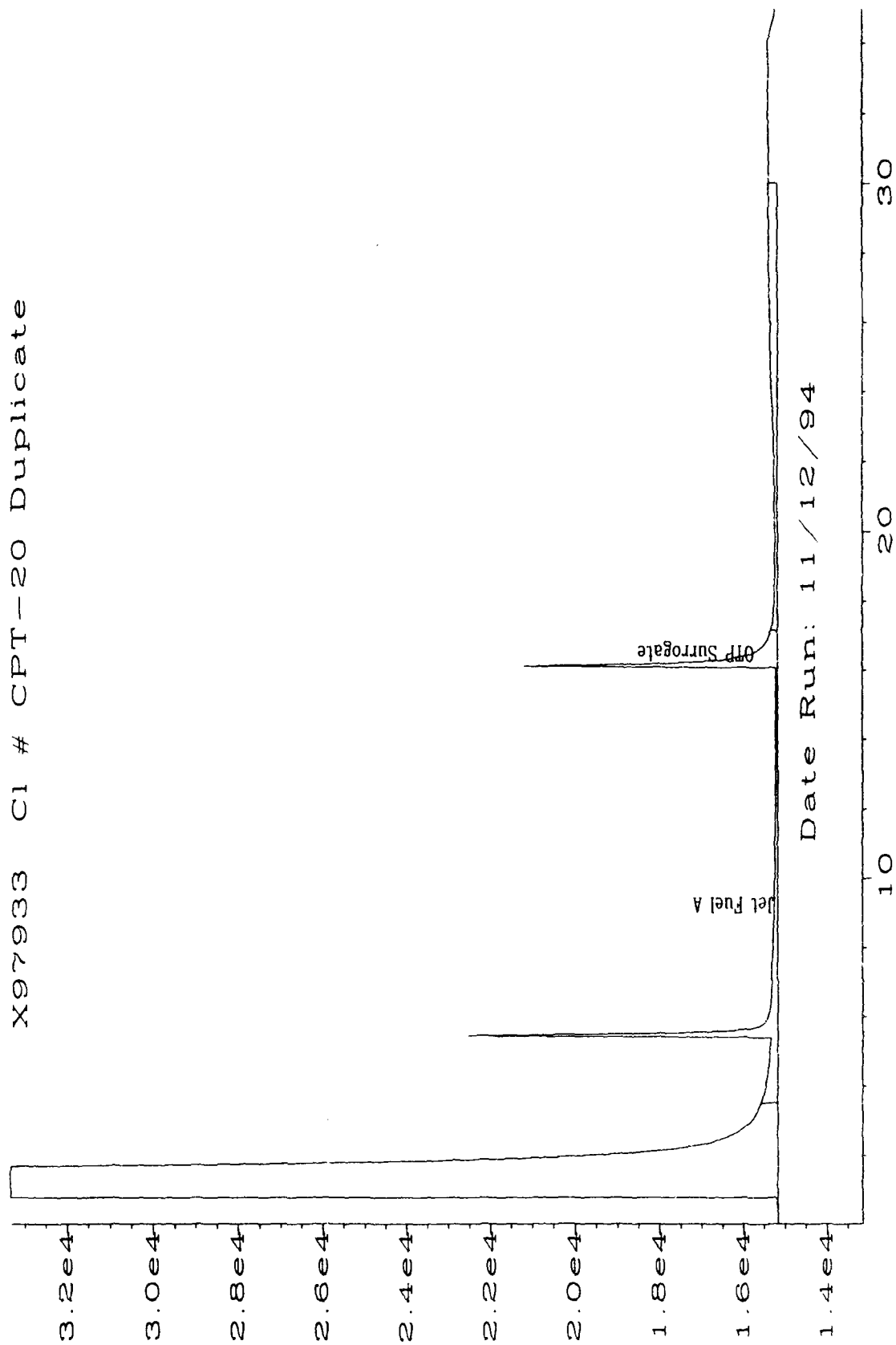
Sig. 2 in C:\HPCHEM\2\DATA\TEH1111\024R0101.D

X97932 Client # CPT-20



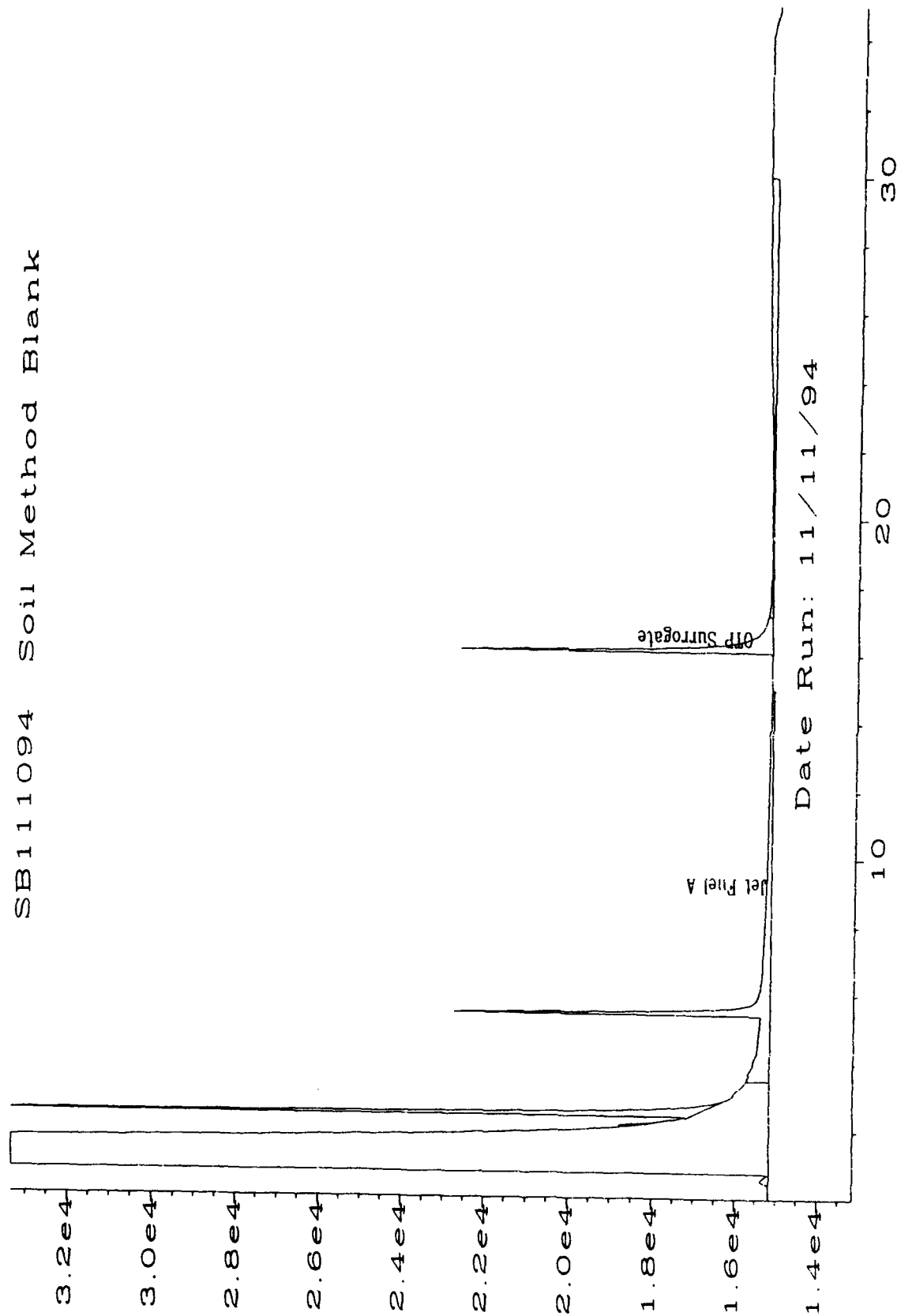
Sig. 2 in C:\HPCHEM\2\DATA\TEH1111\028R0101.D

X97933 C1 # CPT-20 Duplicate



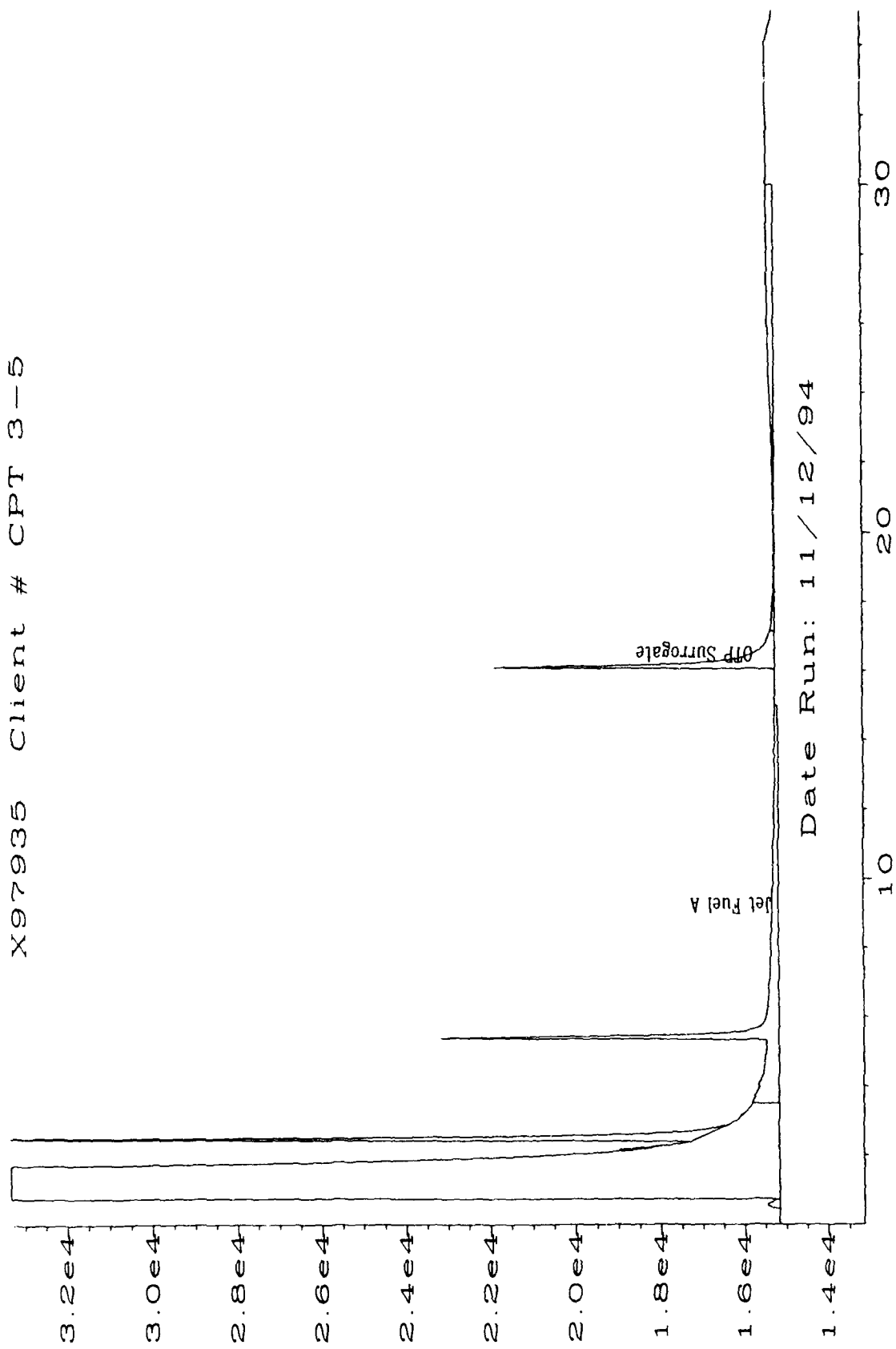
Sig. 2 in C:\HPCHEM\2\DATA\TEH1111\029R0101.D

SB111094 Soil Method Blank



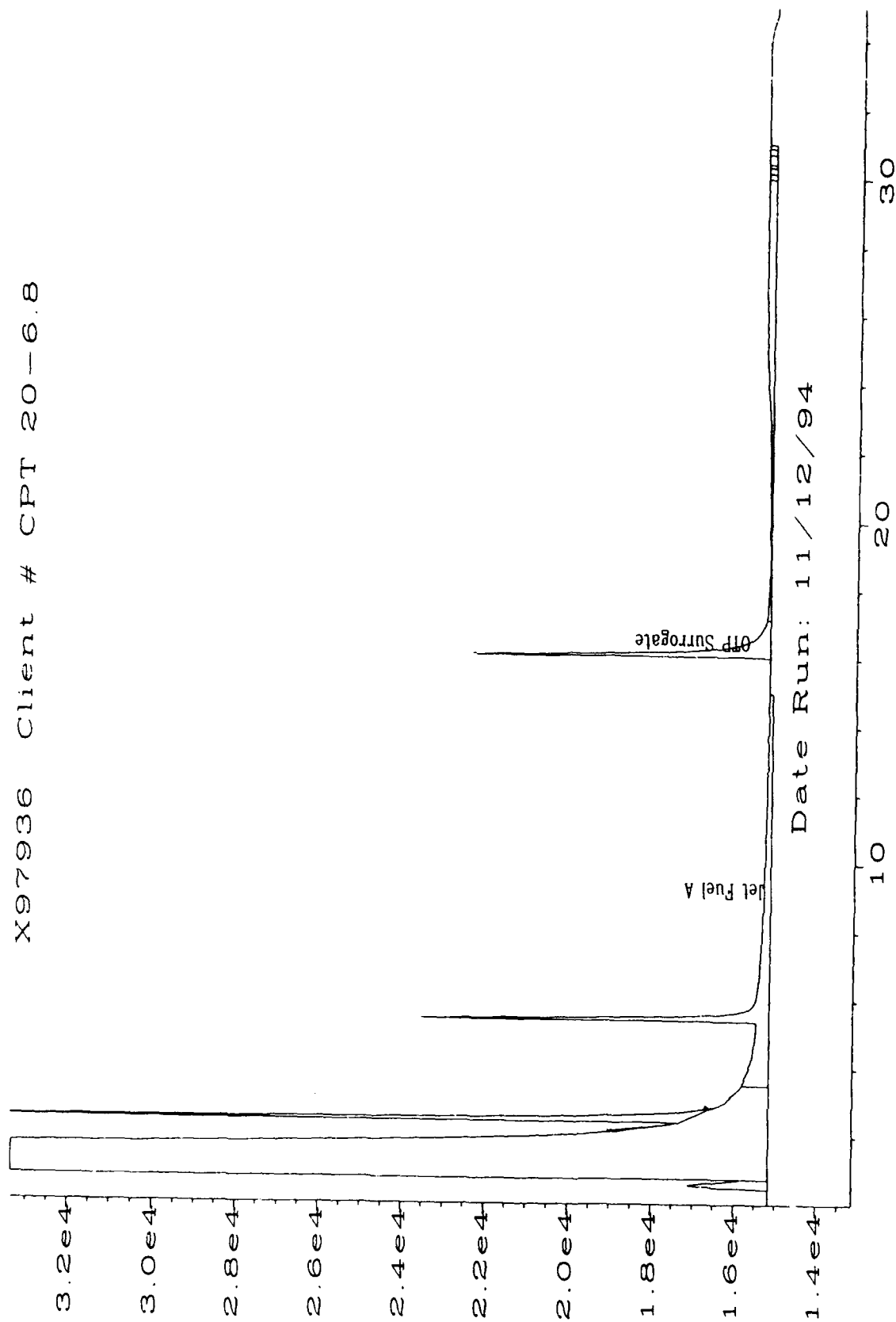
Sig. 2 in C:\HPCHEM\2\DATA\TEH1111\010R0101.D

X97935 Client # CPT 3-5



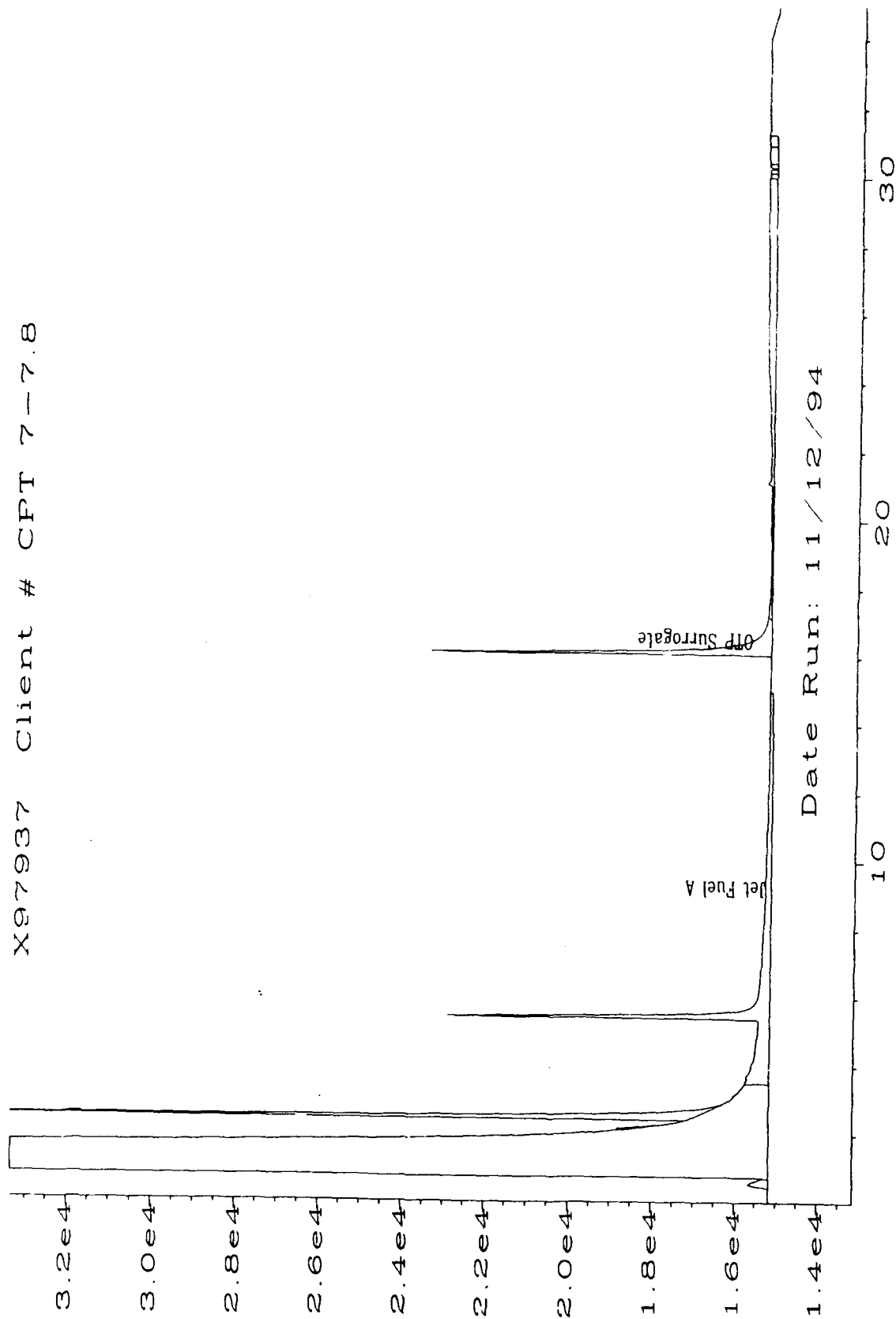
Sig. 2 in C:\HPCHEM\2\DATA\TEH1111\030R0101.D

X97936 Client # CPT 20-6.8



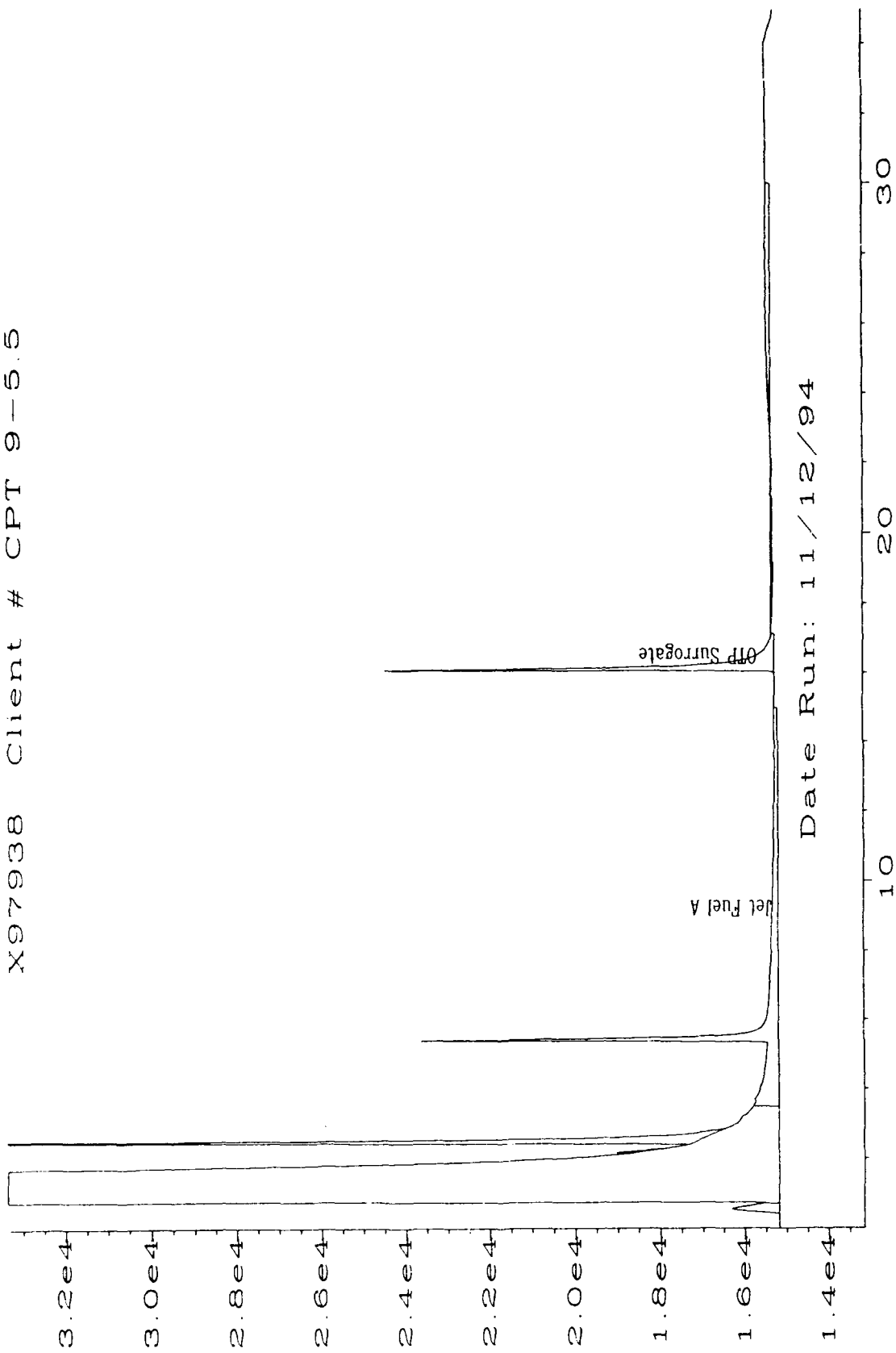
Sig. 2 in C:\HPCHEM\2\DATA\TEH1111\O33R0101.D

X97937 Client # CPT 7-7.8



Sig. 2 in C:\HPCHEM\2\DATA\TEH1111\034R0101.D

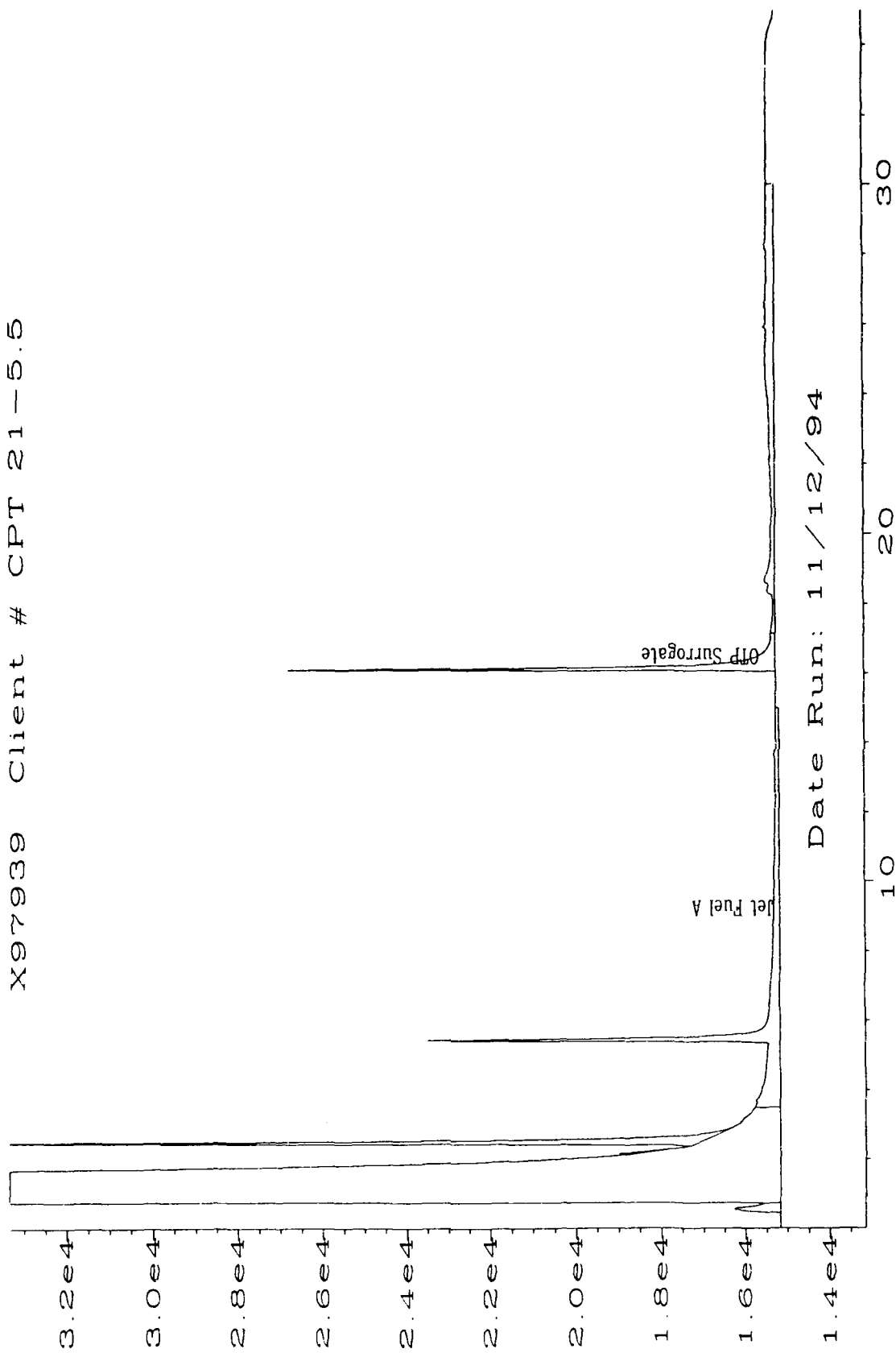
X97938 Client # CPT 9-5.5



Date Run: 11/12/94

Sig. 2 in C:\HPCHEM\2\DATA\TEH1111\035R0101.D

X97939 Client # CPT 21-5.5



Date Run: 11/12/94

Sig. 2 in C:\HPCHEM\2\DATA\TEH1111\036R0101.D

Evergreen Analytical, Inc.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL EXTRACTABLE HYDROCARBONS
TEH Matrix Spike/Matrix Spike Duplicate Data Report

Client Sample No.	: CPT-19S	Client Project No.	: 722450.01000
Lab Sample No.	: X97931		Madison ANG
Date Sampled	: 11/7/94	Lab Project No.	: 94-4373
Date Received	: 11/9/94	EPA Method No.	: 3500/8015 Mod
Date Prepared	: 11/9/94	Matrix	: Water
Date Analyzed	: 11/12/94	Method Blank	: WB110994

Compound	Spike Added (ug/mL)	Sample Concentration (ug/mL)	MS Concentration (ug/mL)	MS %REC	QC Limits %REC
Diesel No.2	1000	0	1000	100	60-140

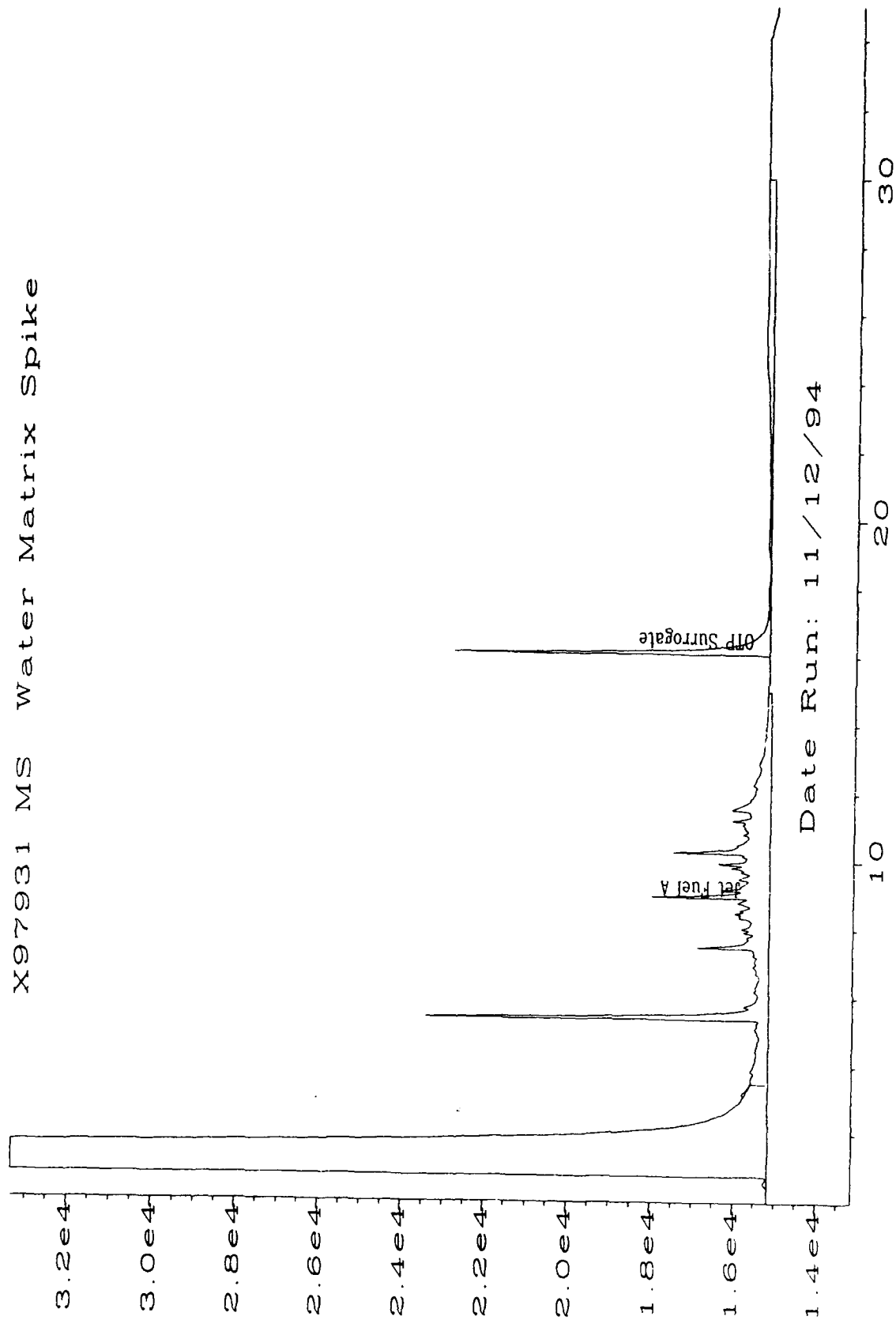
* = Values outside of QC limits.

RPD: NA out of (1) outside limits.

Spike Recovery: 0 out of (1) outside limits.

Comments: NA = Not analyzed/not applicable.

X97931 MS Water Matrix Spike



Sig. 2 in C:\HPCHEM\2\DATA\TEH1111\025R0101.D

Evergreen Analytical, Inc.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL EXTRACTABLE HYDROCARBONS
TEH Matrix Spike/Matrix Spike Duplicate Data Report

Client Sample No.	: CPT 3-5	Client Project No.	: 722450.01000
Lab Sample No.	: X97935		Madison ANG
Date Sampled	: 11/7/94	Lab Project No.	: 94-4373
Date Received	: 11/9/94	EPA Method No.	: 3500/8015 Mod
Date Prepared	: 11/10/94	Matrix	: Soil
Date Analyzed	: 11/12/94	Method Blank	: SB111094

Compound	Spike Added (ug/mL)	Sample Concentration (ug/mL)	MS Concentration (ug/mL)	MS %REC	QC Limits %REC
Diesel No.2	1000	0	1121	112.1	60-140

Compound	Spike Added (ug/mL)	MSD Concentration (ug/mL)	MS %REC	RPD	QC Limits	
					RPD	%REC
Diesel No.2	1000	1202	120.2	7.0	50	60-140

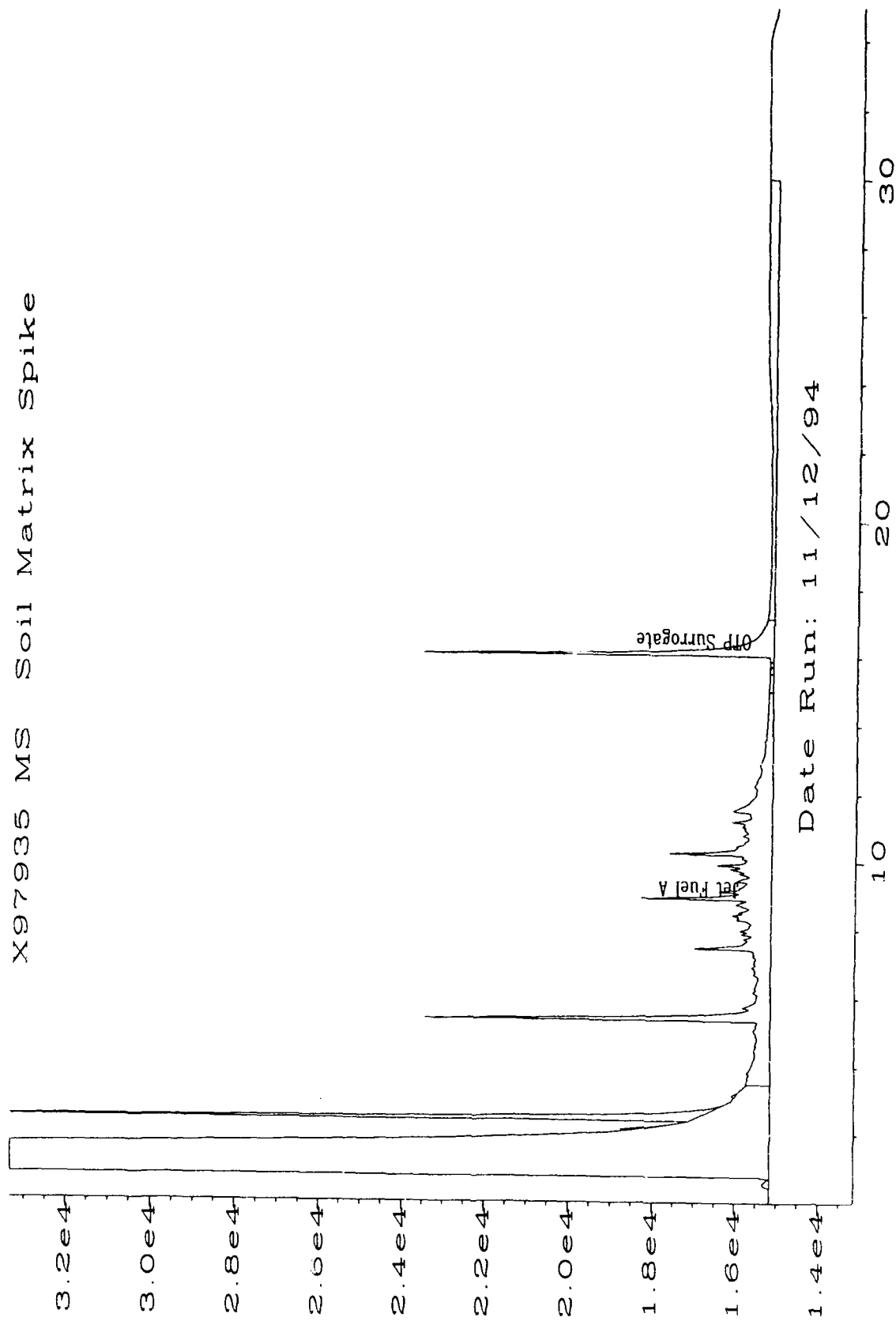
* = Values outside of QC limits.

RPD: 0 out of (1) outside limits.

Spike Recovery: 0 out of (1) outside limits.

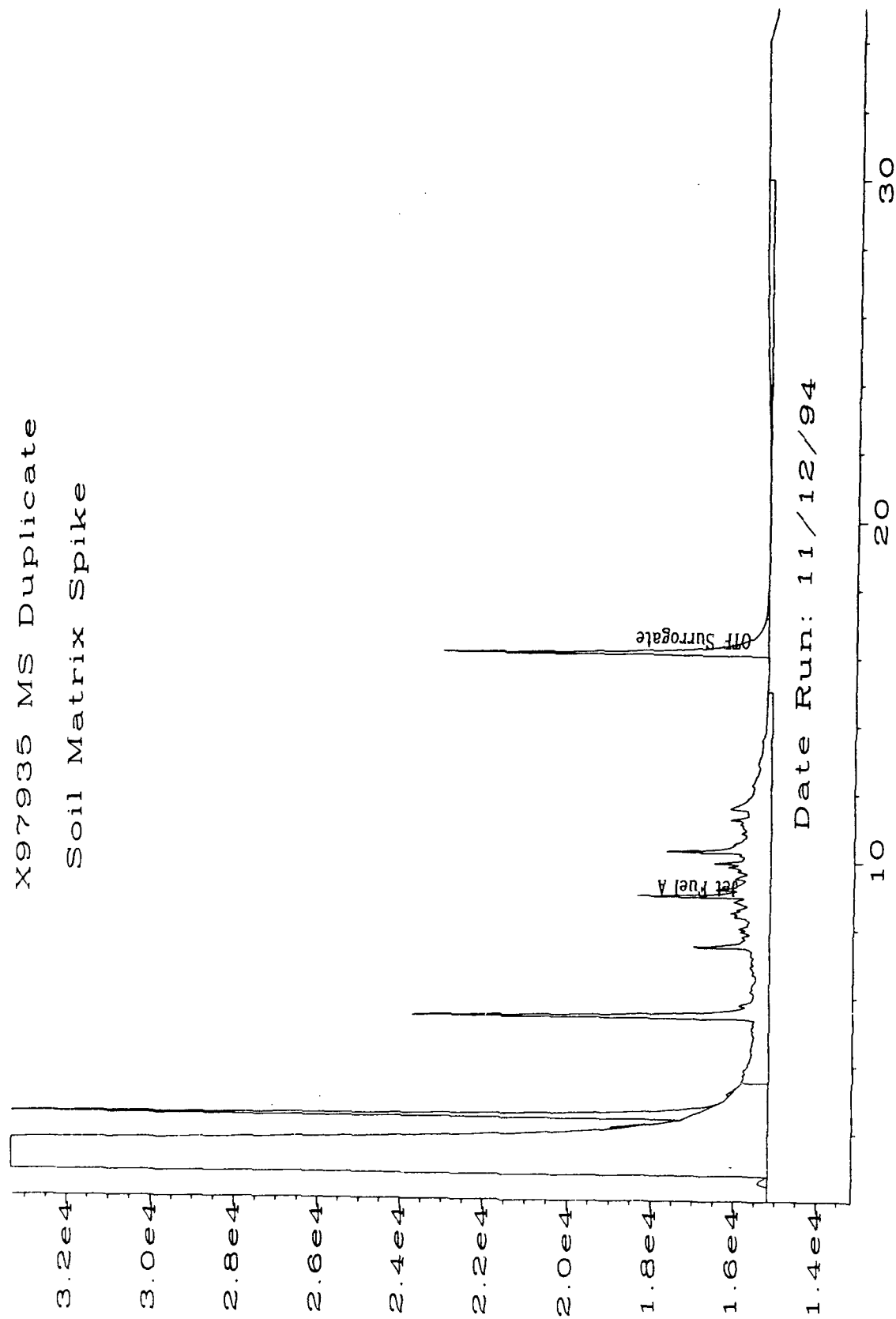
Comments: NA = Not analyzed/not applicable.

X97935 MS Soil Matrix Spike



Sig. 2 in C:\HPCHEM\2\DATA\TEH1111\O31R0101.D

X97935 MS Duplicate
Soil Matrix Spike



Sig. 2 in C:\HPCHEM\2\DATA\TEH1111\032R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL EXTRACTABLE HYDROCARBONS (TEH)
Laboratory Control Sample (LCS)

LCS Number : LCS111094* Client Project Number : 722450.01000
Date Prepared : 11/10/94 Madison ANG
Date Analyzed : 11/12/94 Lab Project Number : 94-4373
Sequence Number : TEH1111 Matrix : Water
Method Number : 3500/Mod. 8015

<u>Compound Name</u>	<u>Theoretical Concentration</u> <u>mg/L</u>	<u>LCS Concentration</u> <u>mg/L</u>	<u>QC Limit</u> <u>mg/L</u>
Jet Fuel A	2000	2212	1500-3500

* = Direct injected, not extracted.

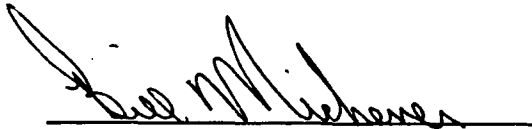
QUALIFIERS

U = TEH analyzed for but not detected.

B = TEH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

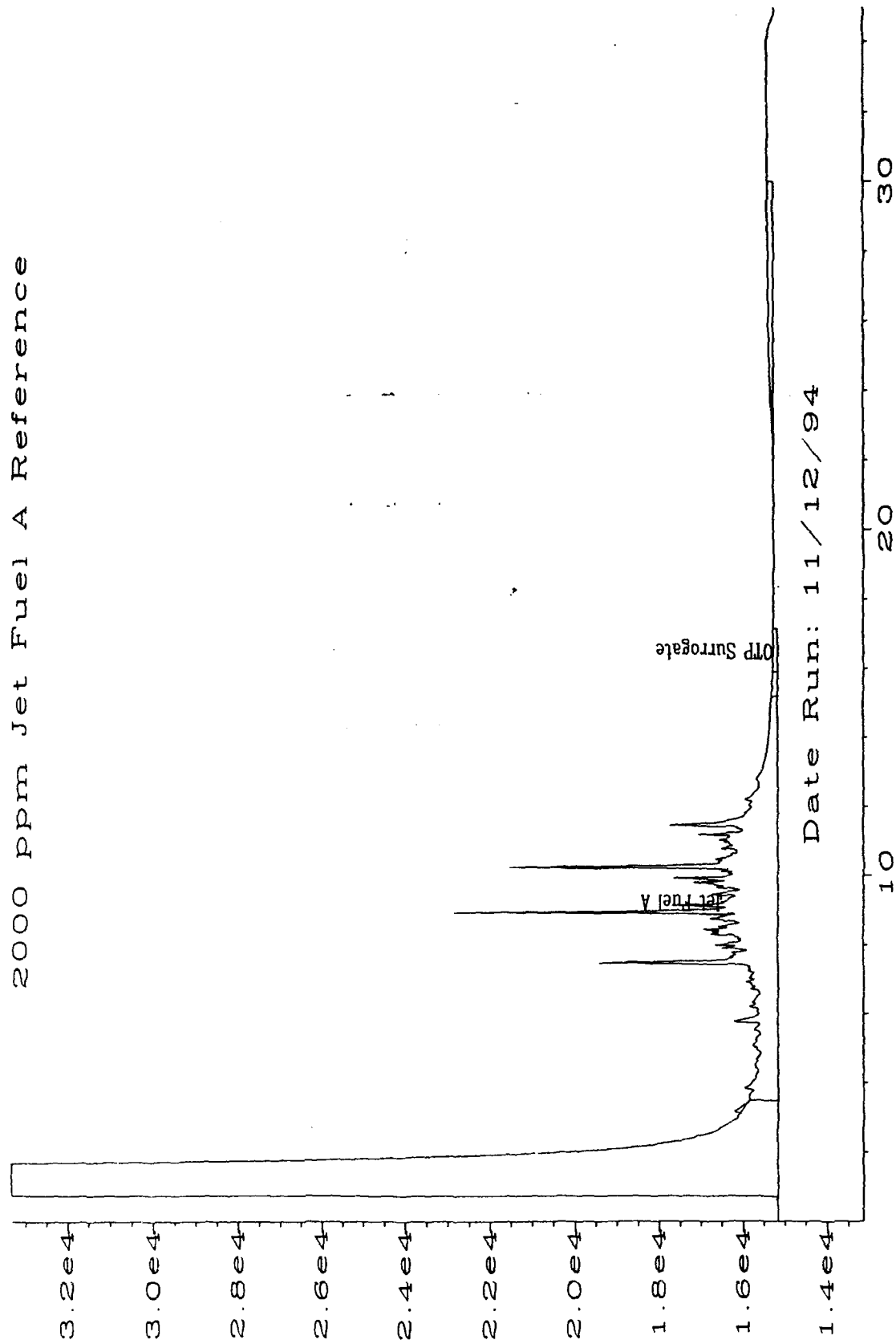
NA = Not Available.


Analyst


Approved

LC511094

2000 ppm Jet Fuel A Reference



Date Run: 11/12/94

Sig. 2 in C:\HPCHEM\2\DATA\TEH1111\041R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS (TVH)

Date Sampled	: 11/7/94	Client Project Number	: Madison ANG
Date Received	: 11/9/94	Lab Project Number	: 94-4373
Date Prepared	: 11/10,11/94	Matrix	: Water
Date Analyzed	: 11/10,11/94	Method Number	: 5030/Mod.8015

<u>Evergreen Sample #</u>	<u>Client Sample #</u>	<u>Surrogate Recovery</u>	<u>TVH mg/L</u>	<u>MDL mg/L</u>
MB111094	Method Blank	100%	U	0.1
X97928	CPT-1D	100%	0.2	0.1
X97929	CPT-5S	102%	0.3	0.1
X97930	CPT-5D	103%	0.3	0.1
X97931	CPT-19S	105%	0.2	0.1
X97932	CPT-20	104%	U	0.1
X97933	CPT-20 Dupl.	106%	U	0.1

QUALIFIERS

U = TVH analyzed for but not detected.

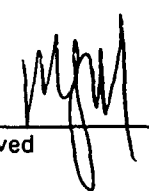
B = TVH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

MDL = Method Detection Limit



Analyst



Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS (TVH)

Date Sampled	: 11/7/94	Client Project Number	: 722450.01000
Date Received	: 11/9/94		Madison ANG
Date Prepared	: 11/10/94	Lab Project Number	: 94-4373
Date Analyzed	: 11/10,11/94	Matrix	: Soil
		Method Number	: 5030/Mod.8015

<u>Evergreen Sample #</u>	<u>Client Sample #</u>	<u>Surrogate Recovery</u>	<u>TVH * mg/Kg</u>	<u>MDL mg/Kg</u>
MB111094	Method Blank	100%	U	0.1
X97936	CPT 20-6.8	105%	U	0.11
X97937	CPT 7-7.8	103%	U	0.12
X97938	CPT 9-5.5	104%	U	0.11
X97939	CPT 21-5.5	100%	U	0.11

* = Sample and MDL values are reported on a dry weight basis.

QUALIFIERS

U = TVH analyzed for but not detected.

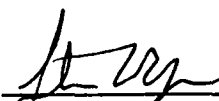
B = TVH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

MDL = Method Detection Limit



Analyst



Approved

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS (TVH)

Date Sampled	: 11/7/94	Client Project Number	: 722450.01000
Date Received	: 11/9/94		Madison ANG
Date Prepared	: 11/14/94	Lab Project Number	: 94-4373
Date Analyzed	: 11/14/94	Matrix	: Soil
		Method Number	: 5030/Mod.8015

<u>Evergreen Sample #</u>	<u>Client Sample #</u>	<u>Surrogate Recovery</u>	<u>TVH * mg/Kg</u>	<u>MDL mg/Kg</u>
MB111494	Method Blank	100%	U	0.1
X97935	CPT 3-5	99%	U	0.1

* = Sample and MDL values are reported on a dry weight basis.

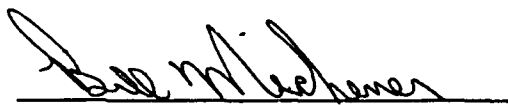
QUALIFIERS

U = TVH analyzed for but not detected.

B = TVH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

MDL = Method Detection Limit

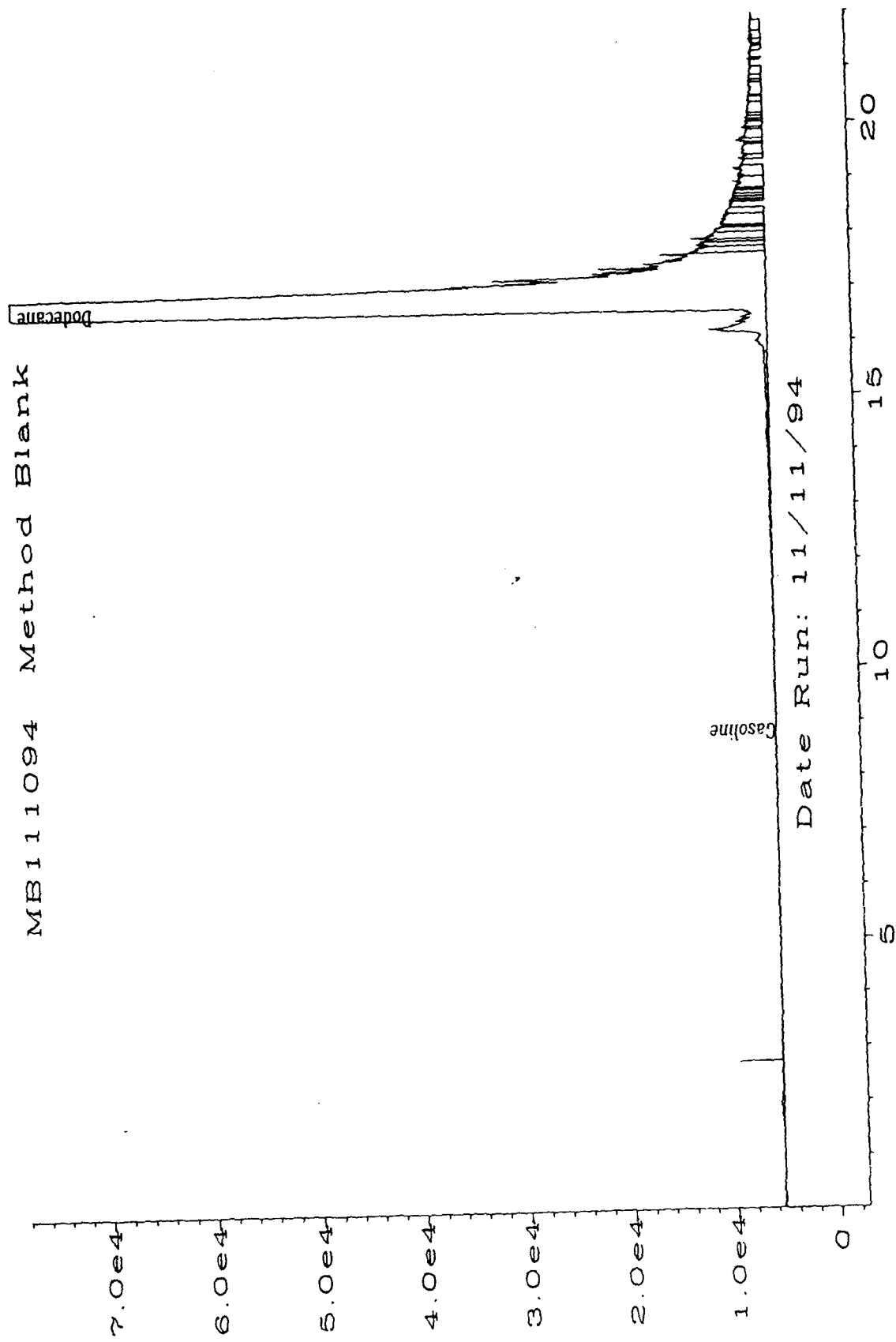


Analyst



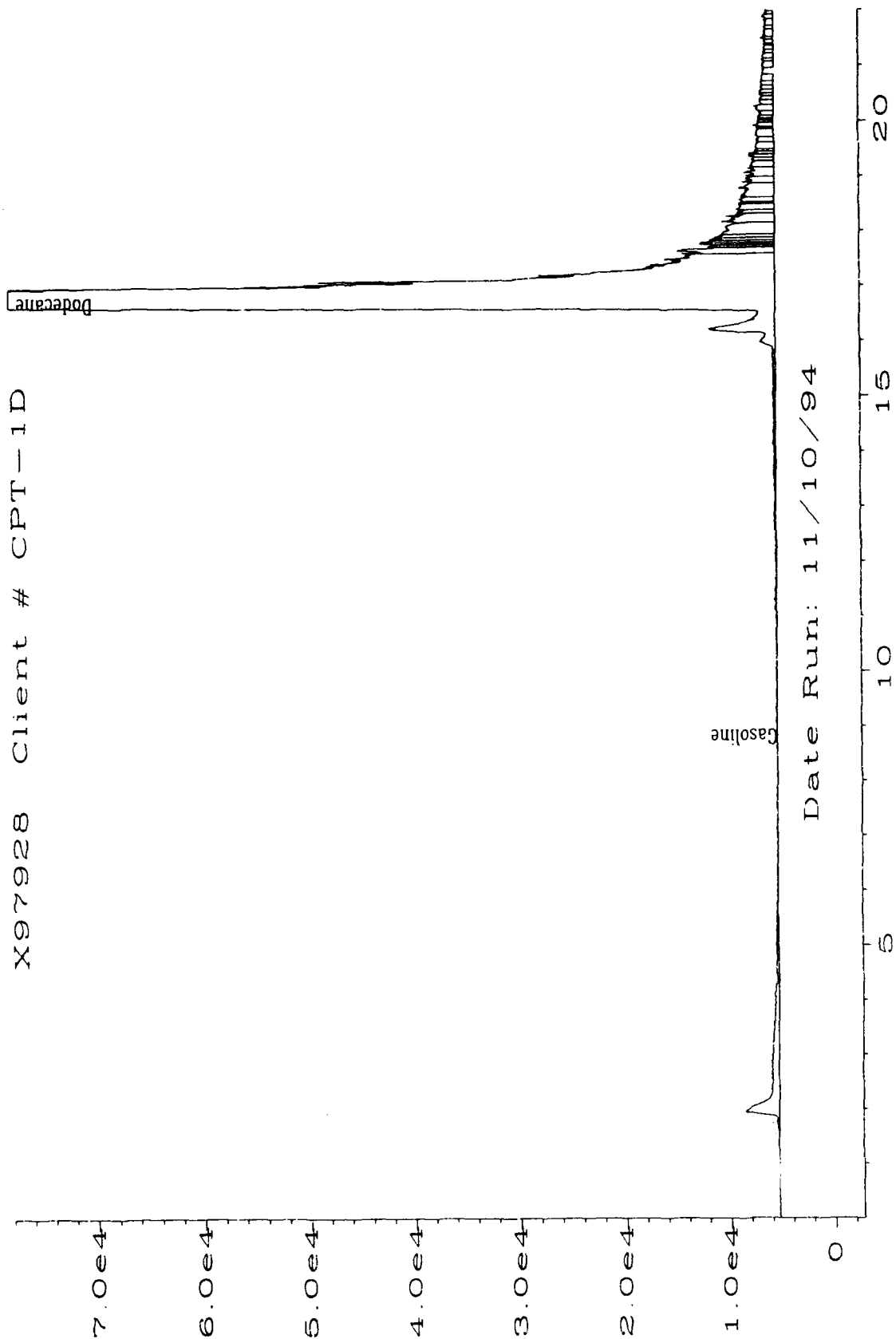
Approved

MB111094 Method Blank



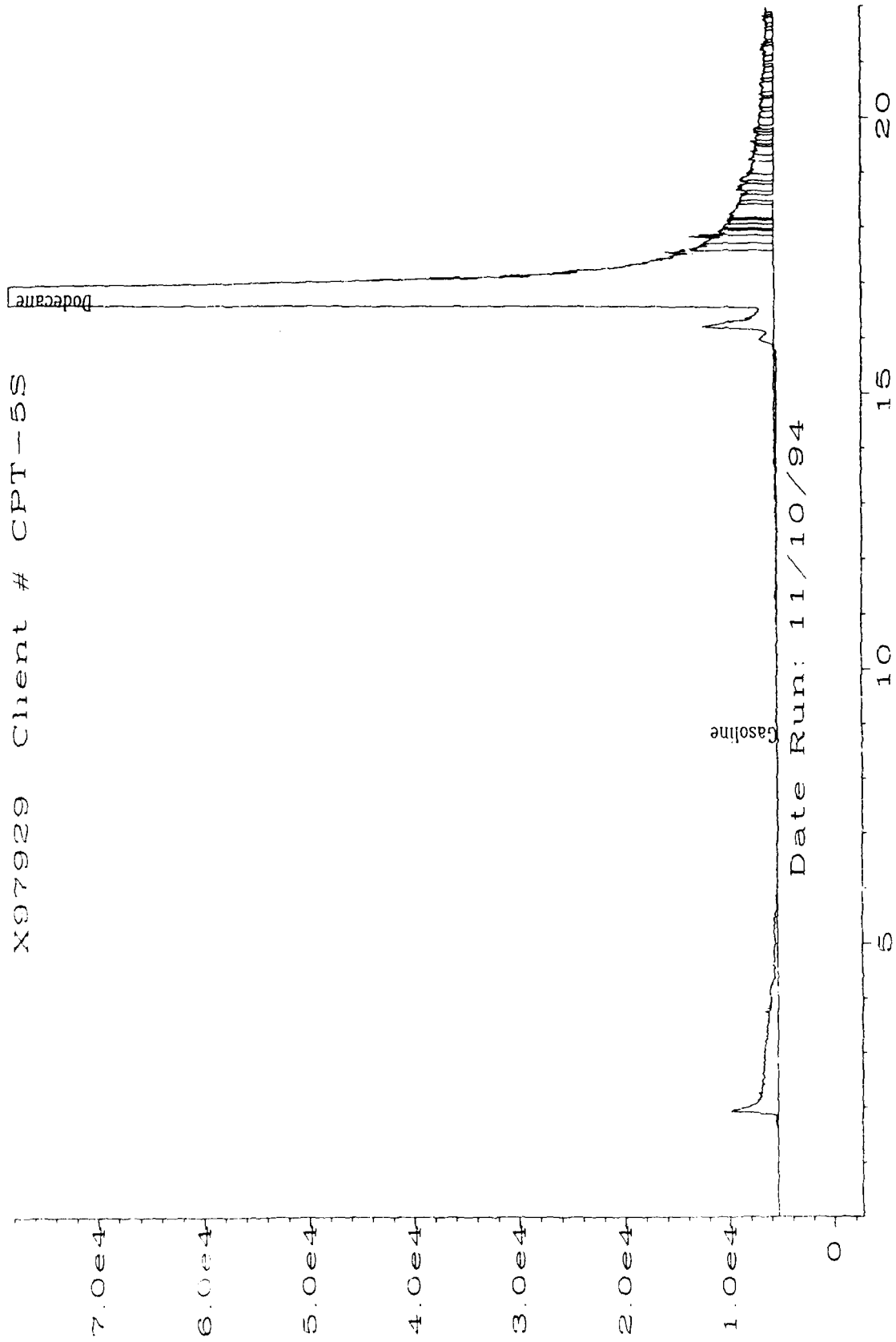
Sig. 1 in C:\HPCHEM\1\DATA\TVH1110\026F0101.D

X97928 Client # CPT-1D



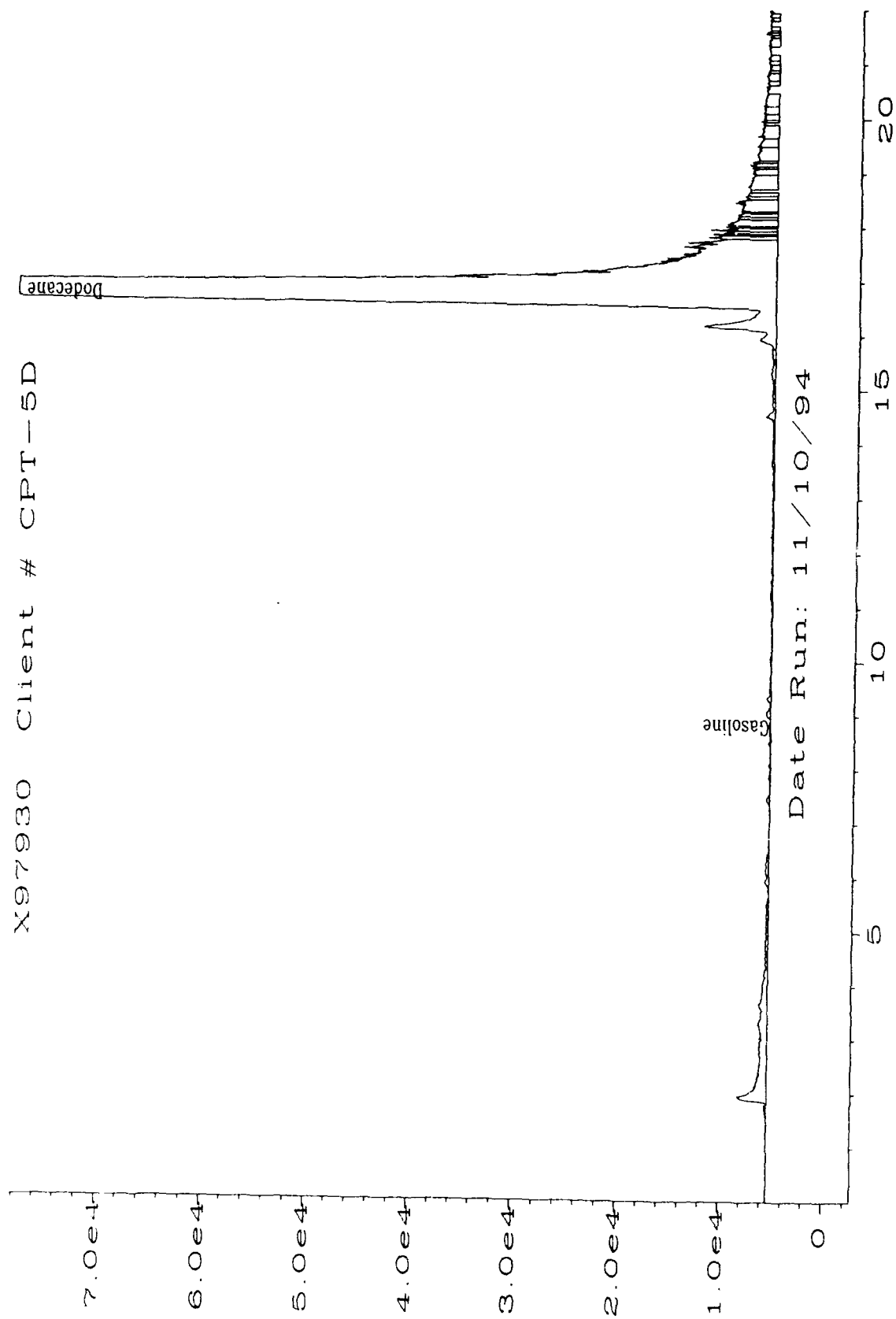
Sig. 1 in C:\HPCHEM\1\DATA\TVH1110\002F0101.D

X97929 Client # CPT-55



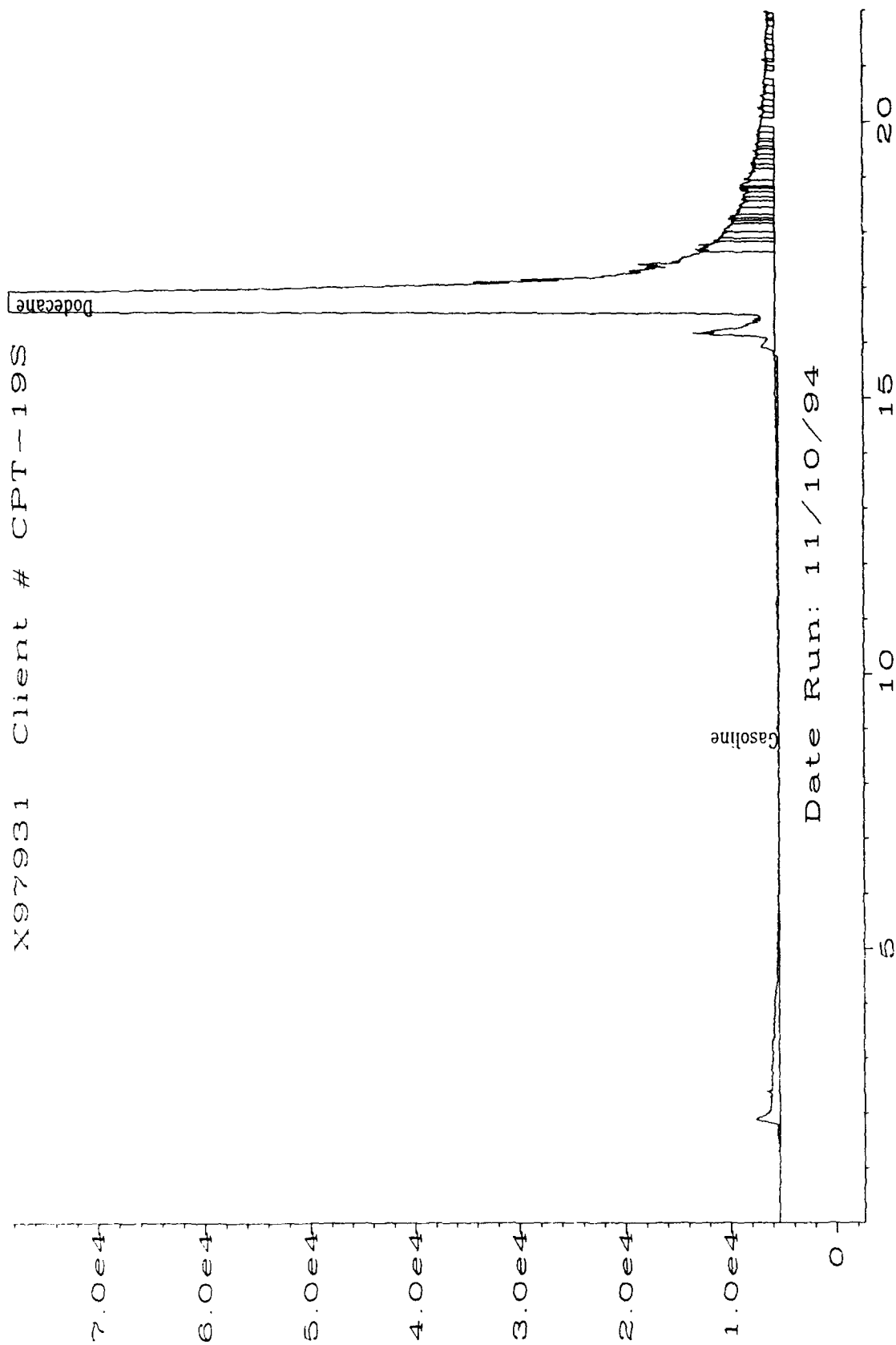
Sig. 1 in C:\HPCHEM\1\DATA\TVH1110\003FO101.D

X97930 Client # CPT-5D



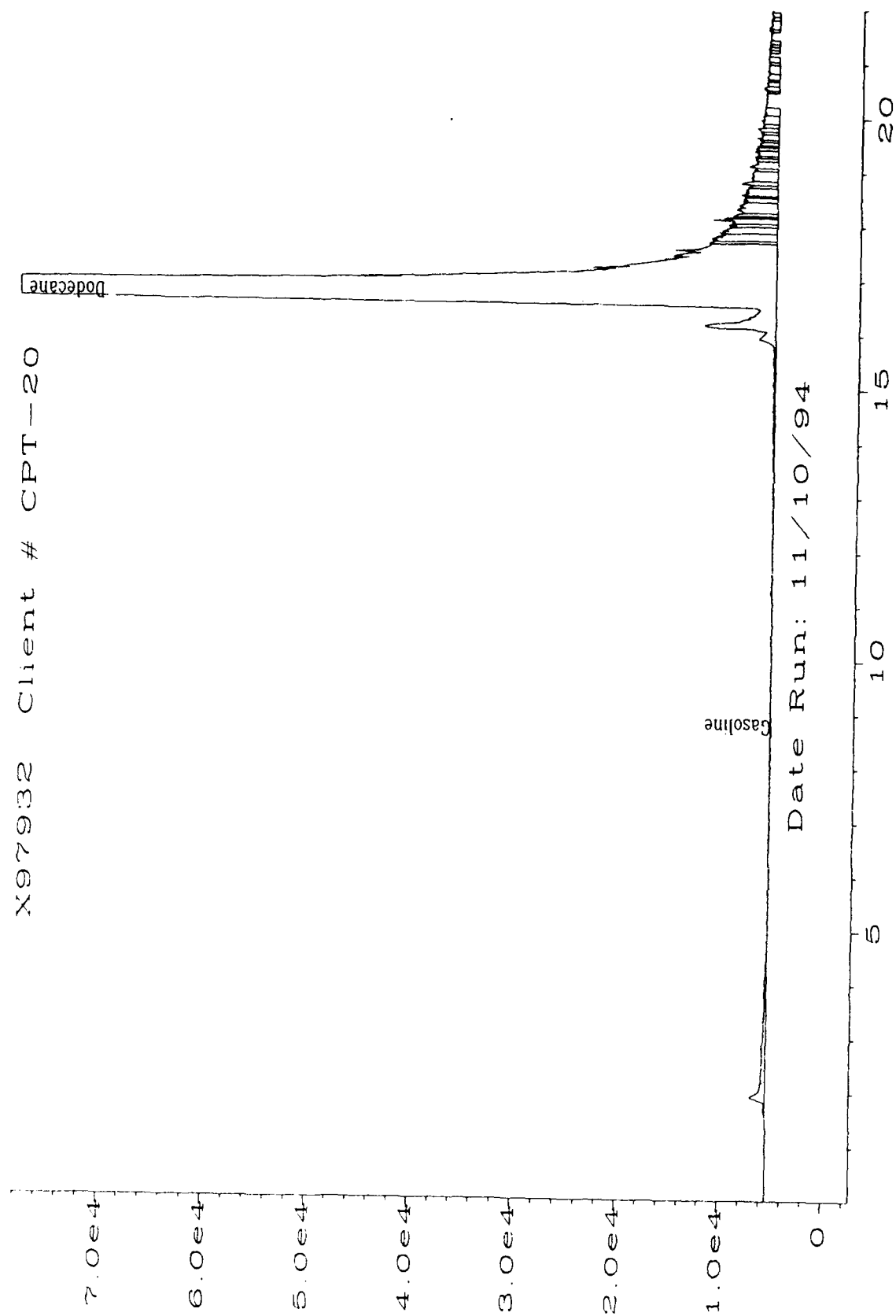
Sig. 1 in C:\HPCHEM\1\DATA\TVH1110\004FO101.D

X97931 Client # CPT-19S



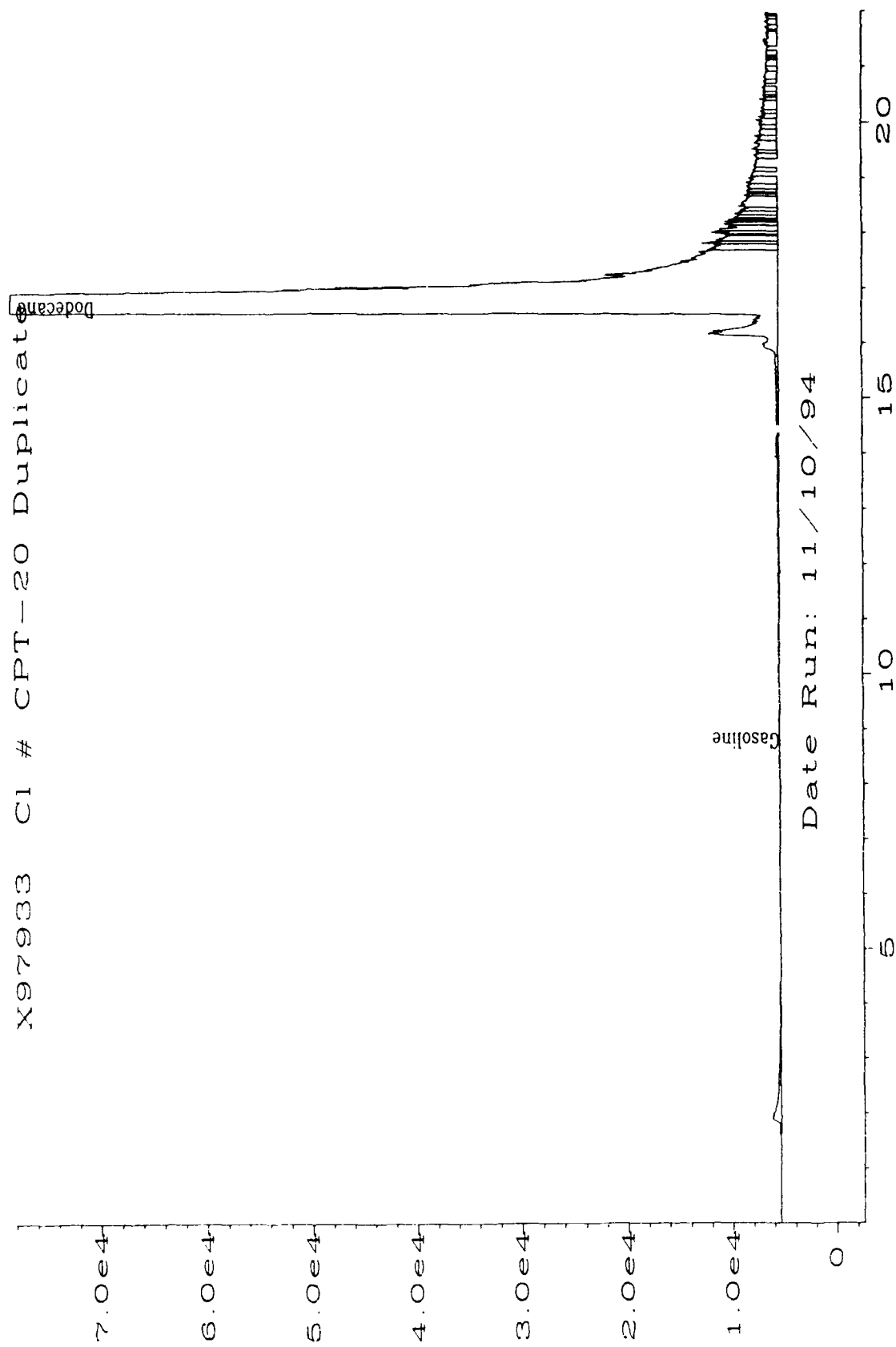
Sig. 1 in C:\HPCHEM\1\DATA\TVH1110\007F0101.D

X97932 Client # CPT-20



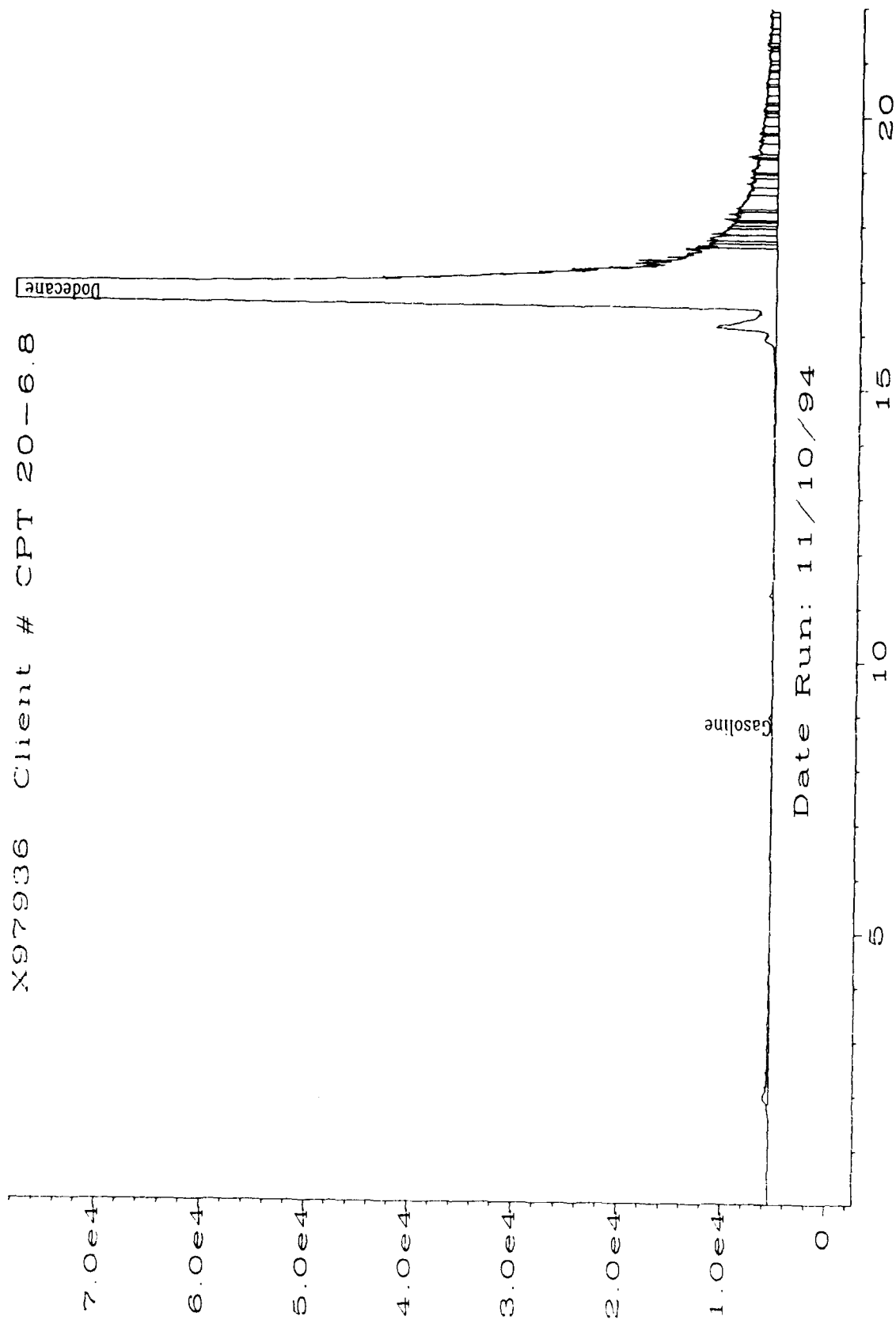
Sig. 1 in C:\HPCHEM\1\DATA\TVH1110\008F0101.D

X97933 C1 # CPT-20 Duplicate



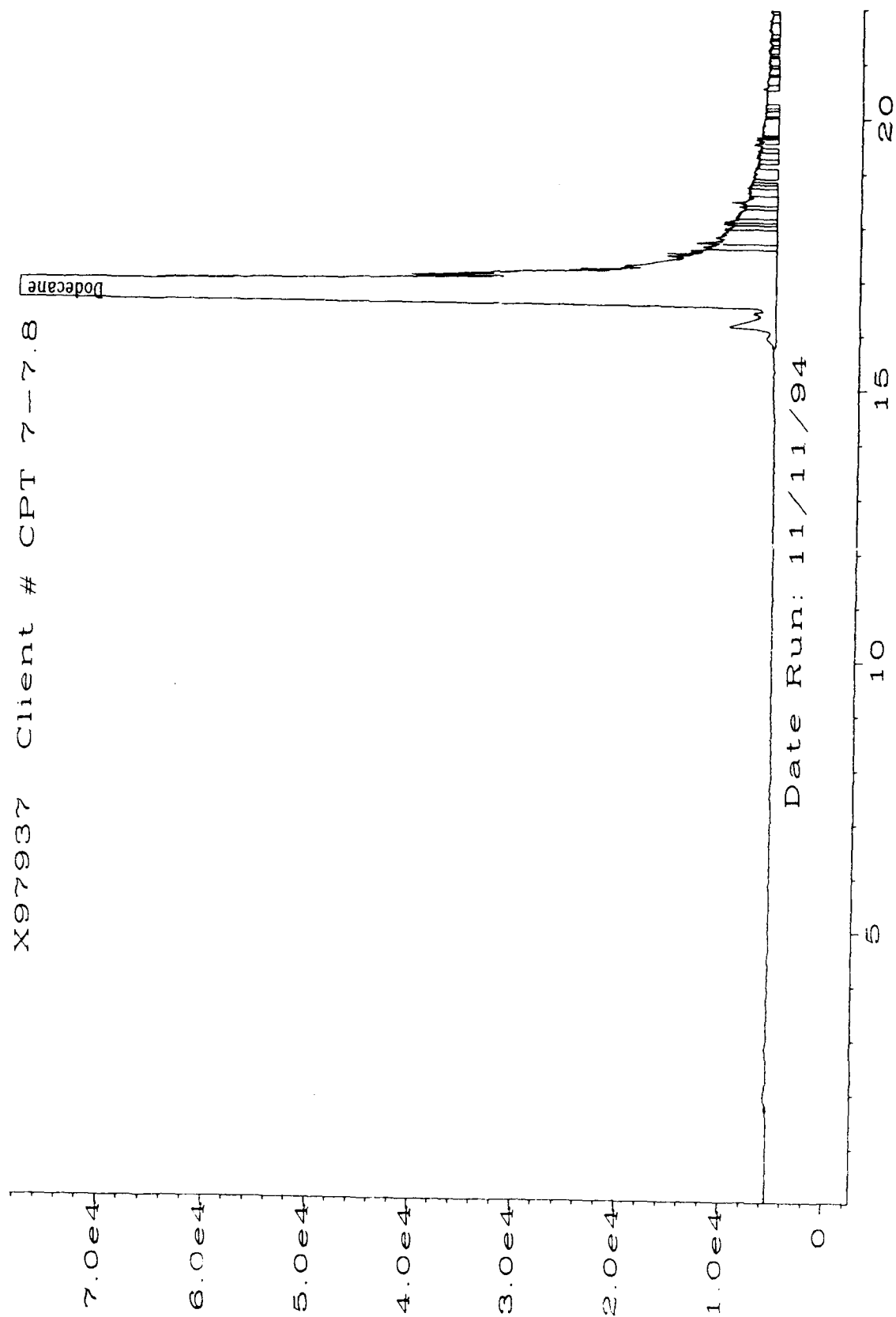
Sig. 1 in C:\HPCHEM\1\DATA\TVH1110\009F0101.D

X97936 Client # CPT 20-6.8



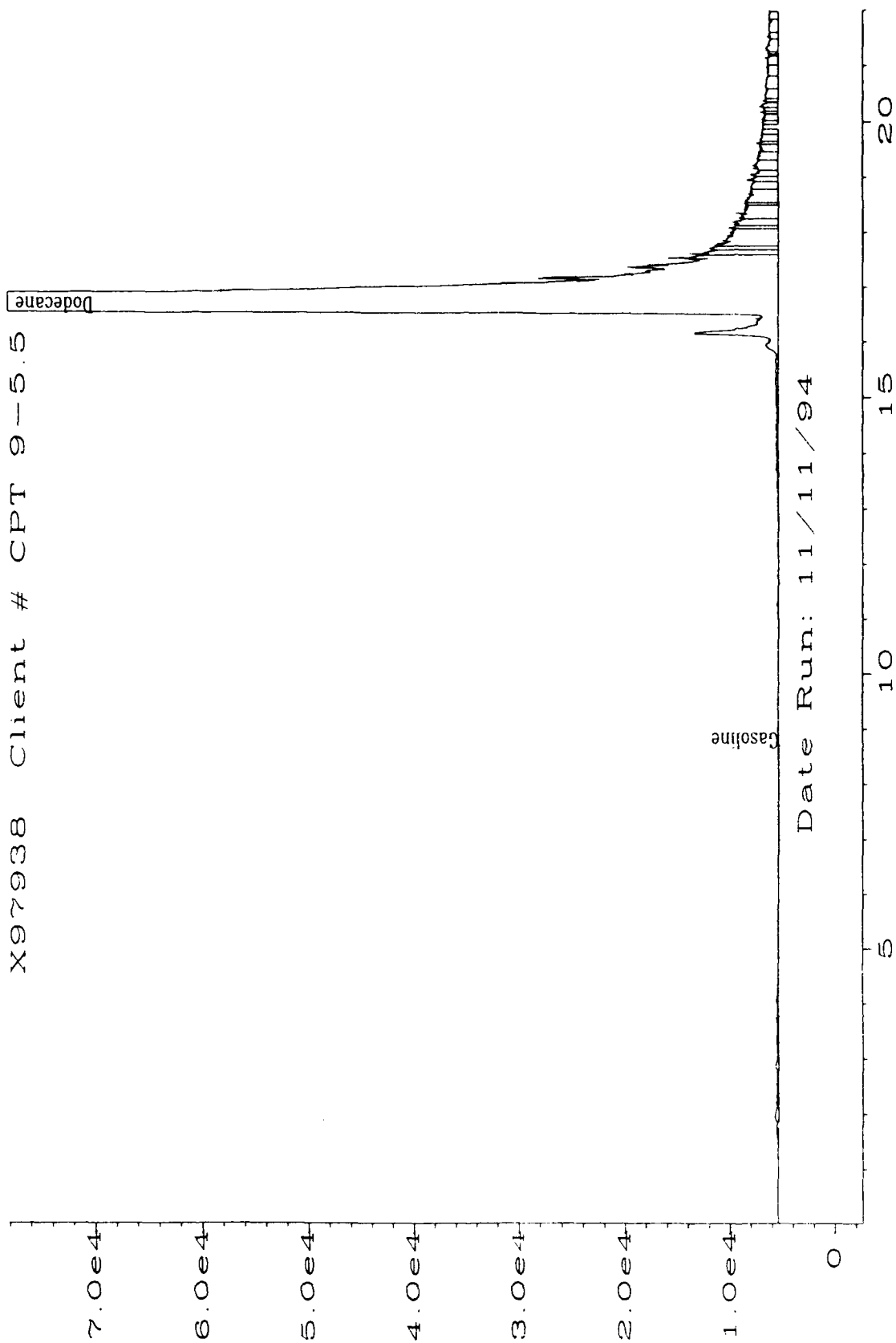
Sig. 1 in C:\HPCHEM\1\DATA\TVH1110\013F0101.D

X97937 Client # CPT 7-7.8



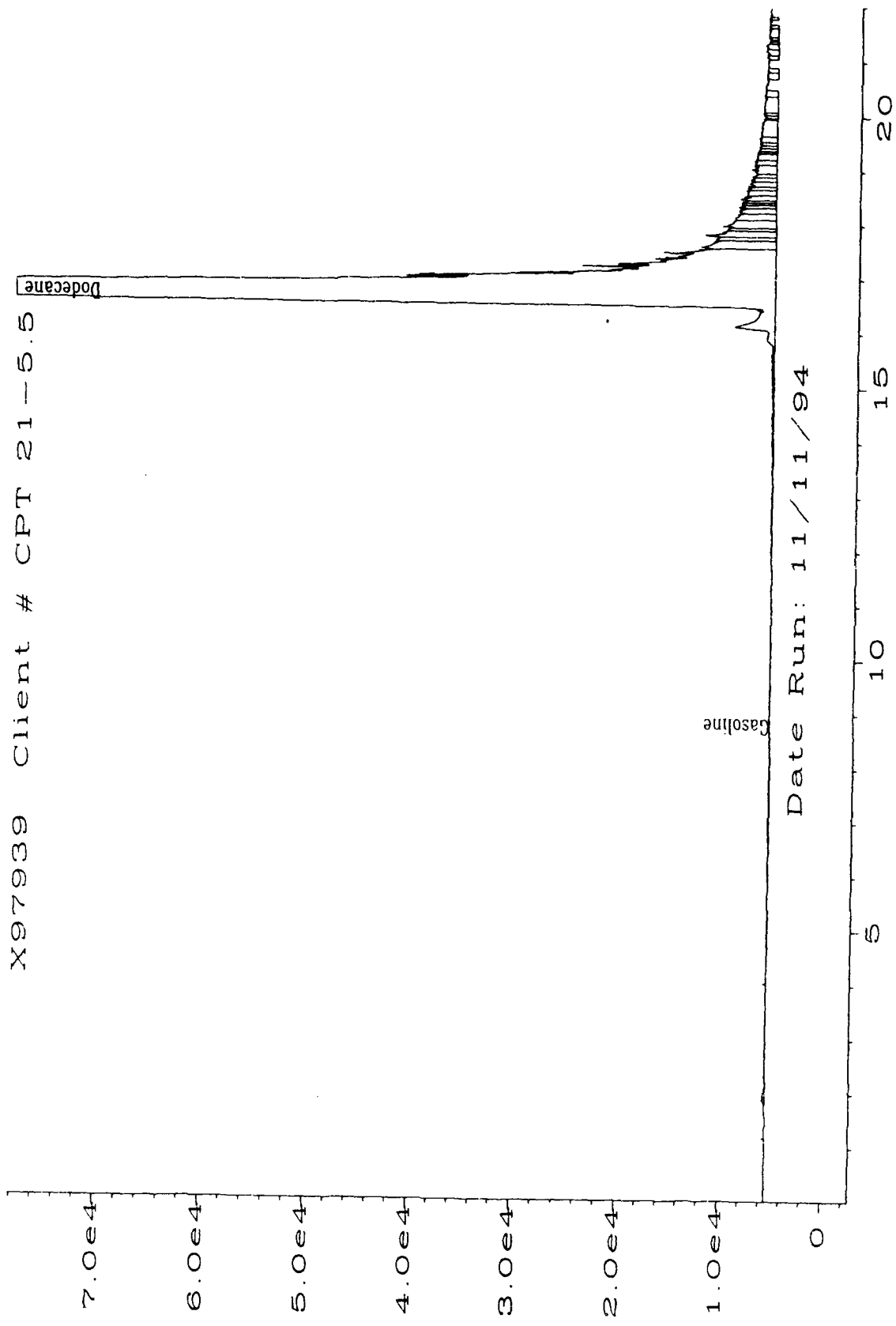
Sig. 1 in C:\HPCHEM\1\DATA\TVH1110\014F0101.D

X97938 Client # CPT 9-5.5



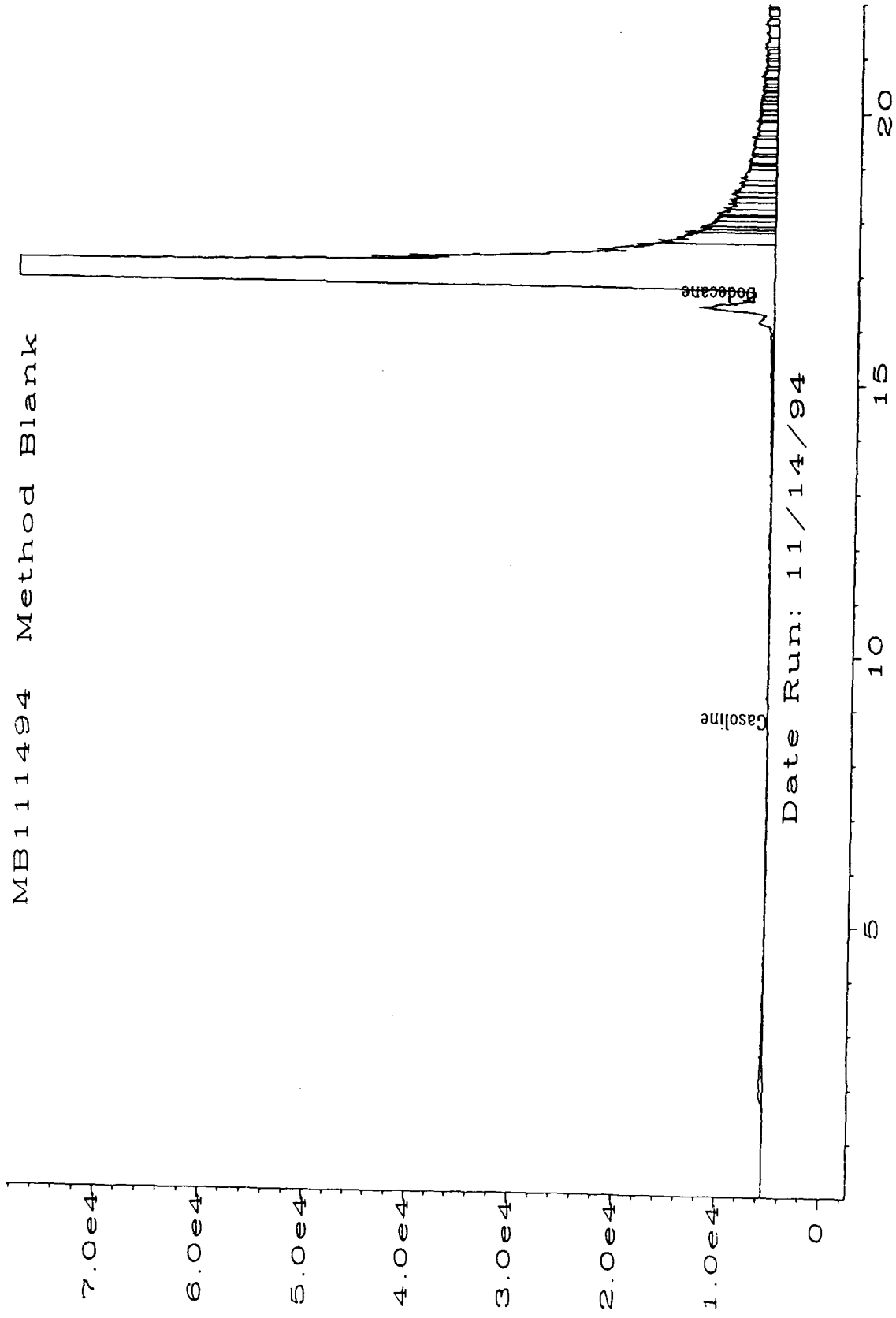
Sig. 1 in C:\HPCHEM\1\DATA\TVH1110\015F0101.D

X97939 Client # CPT 21-5.5



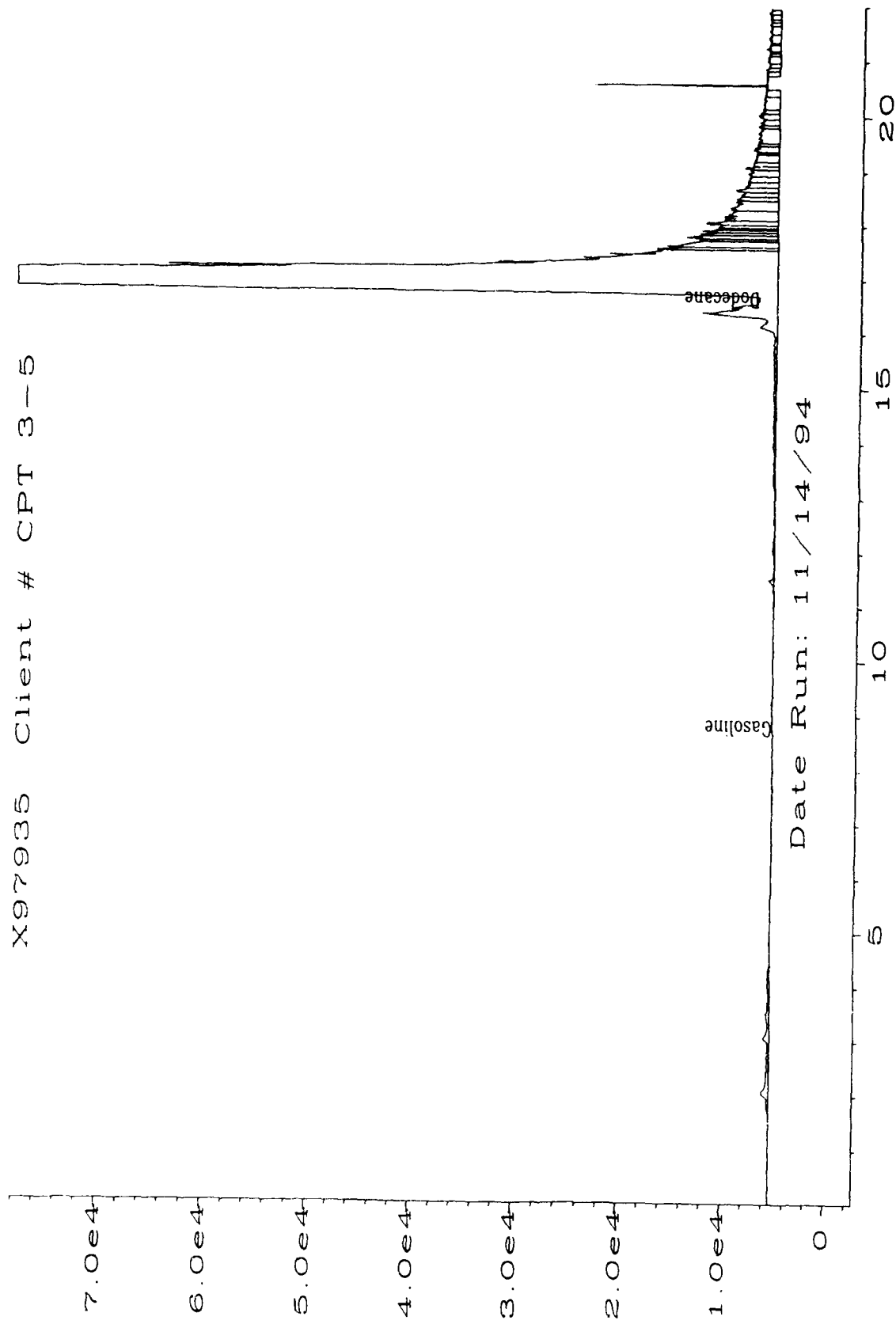
Sig. 1 in C:\HPCHEM\1\DATA\TVH1110\016F0101.D

MB111494 Method Blank



Sig. 1 in C:\HPCHEM\1\DATA\TVH1114\O1OFO1O1.D

X97935 Client # CPT 3-5



Sig. 1 in C:\HPCHEM\1\DATA\TVH1114\002F0101.D

Evergreen Analytical, Inc.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS
TVH Matrix Spike/Matrix Spike Duplicate Data Report

Client Sample No.	: CPT-19S	Client Project No.	: 722450.01000
Lab Sample No.	: X97931		Madison ANG
Date Sampled	: 11/7/94	Lab Project No.	: 94-4373
Date Received	: 11/9/94	EPA Method No.	: 8015 Mod.
Date Prepared	: 11/10/94	Matrix	: Water
Date Analyzed	: 11/10/94	Method Blank	: MB111094

Compound	Spike Added (mg/L)	Sample Concentration (mg/L)	MS Concentration (mg/L)	MS %REC	QC Limits %REC
Gasoline	10	0.2	7.6	74	60-140

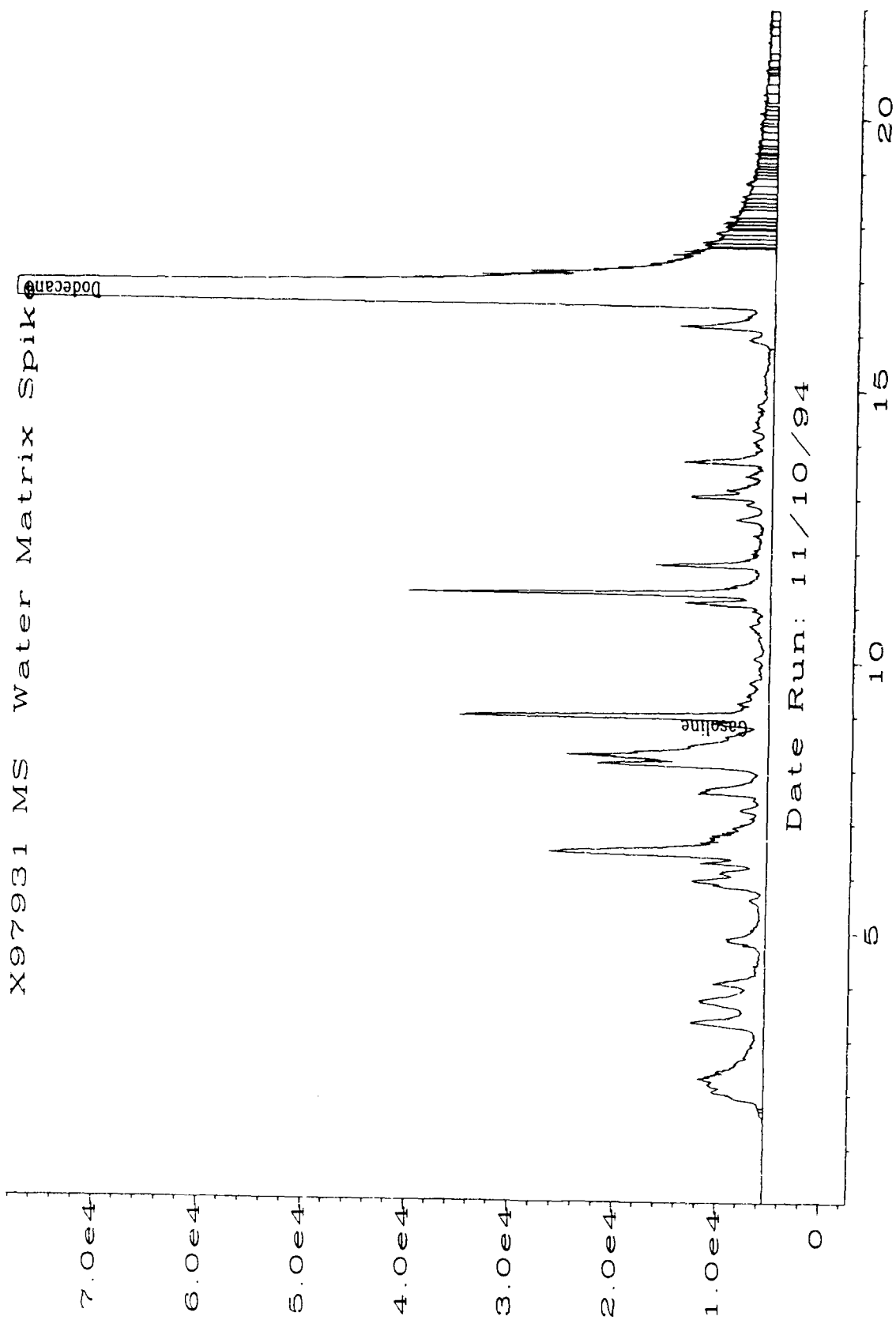
Compound	Spike Added (mg/L)	MSD Concentration (mg/L)	MS %REC	RPD	QC Limits	
					RPD	%REC
Gasoline	10	9.4	92	21.7	50	60-140

* = Values outside of QC limits.

RPD: 0 out of (1) outside limits.

Spike Recovery: 0 out of (2) outside limits.

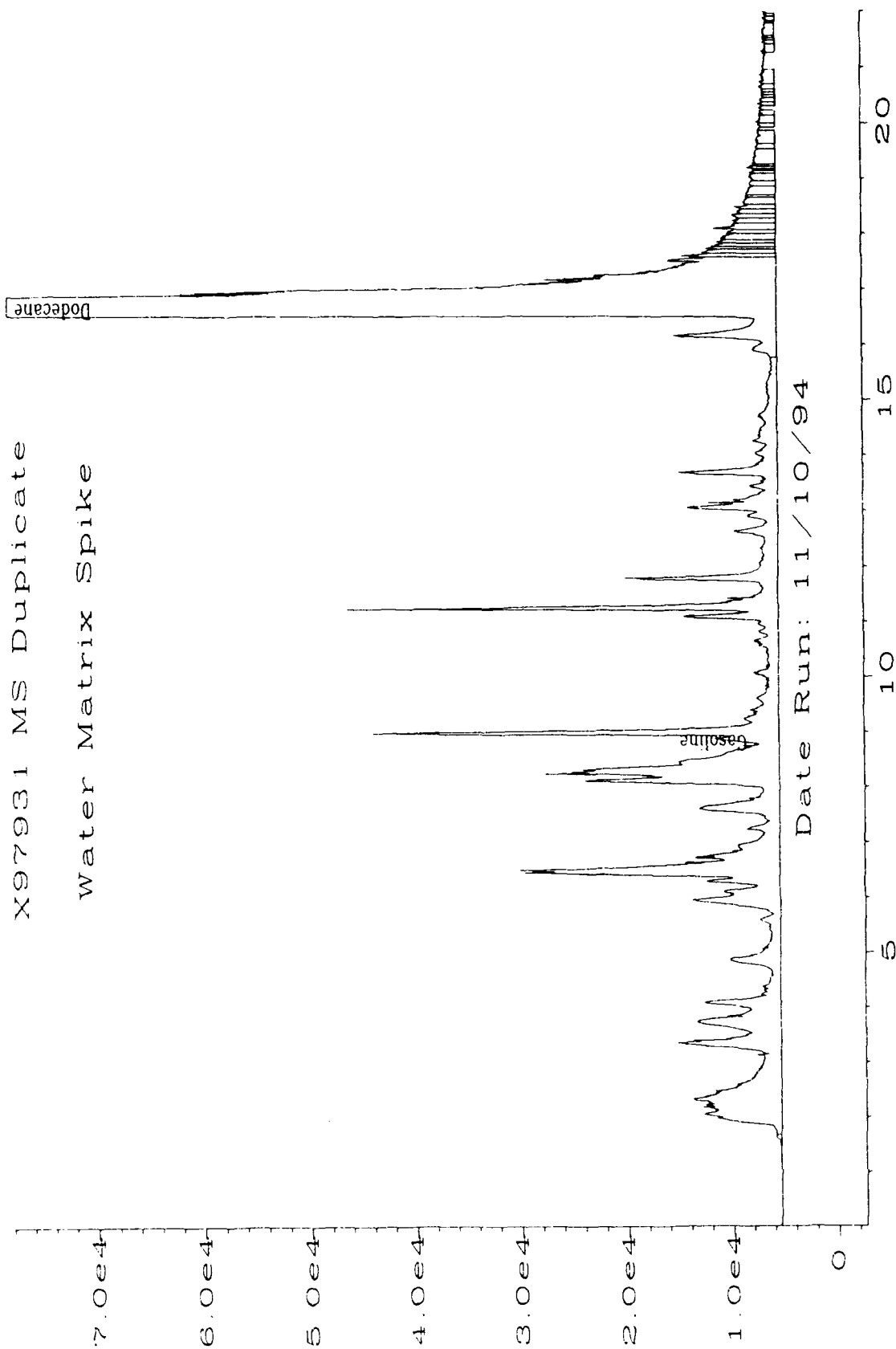
Comments: NA = Not analyzed/not applicable.



Sig. 1 in C:\HPCHEM\1\DATA\TVH1110\005F0101.D

X97931 MS Duplicate

Water Matrix Spike



Sig. 1 in C:\HPCHEM\1\DATA\TVH1110\006F0101.D

Evergreen Analytical, Inc.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS
TVH Matrix Spike/Matrix Spike Duplicate Data Report

Client Sample No.	: CPT 3-5	Client Project No.	: 722450.01000
Lab Sample No.	: X97935		Madison ANG
Date Sampled	: 11/7/94	Lab Project No.	: 94-4373
Date Received	: 11/9/94	EPA Method No.	: 5030/8015 Mod
Date Prepared	: 11/10/94	Matrix	: Soil
Date Analyzed	: 11/11/94	Method Blank	: MB111094

Compound	Spike Added (mg/L)	Sample Concentration (mg/L)	MS Concentration (mg/L)	MS %REC	QC Limits %REC
Gasoline	5	0	5.084	101.68	60-140

Compound	Spike Added (mg/L)	MSD Concentration (mg/L)	MS %REC	RPD	QC Limits	
					RPD	%REC
Gasoline	5	5.278	105.56	3.7	50	60-140

* = Values outside of QC limits.

RPD: 0 out of (1) outside limits.

Spike Recovery: 0 out of (2) outside limits.

Comments: NA = Not analyzed/not applicable.

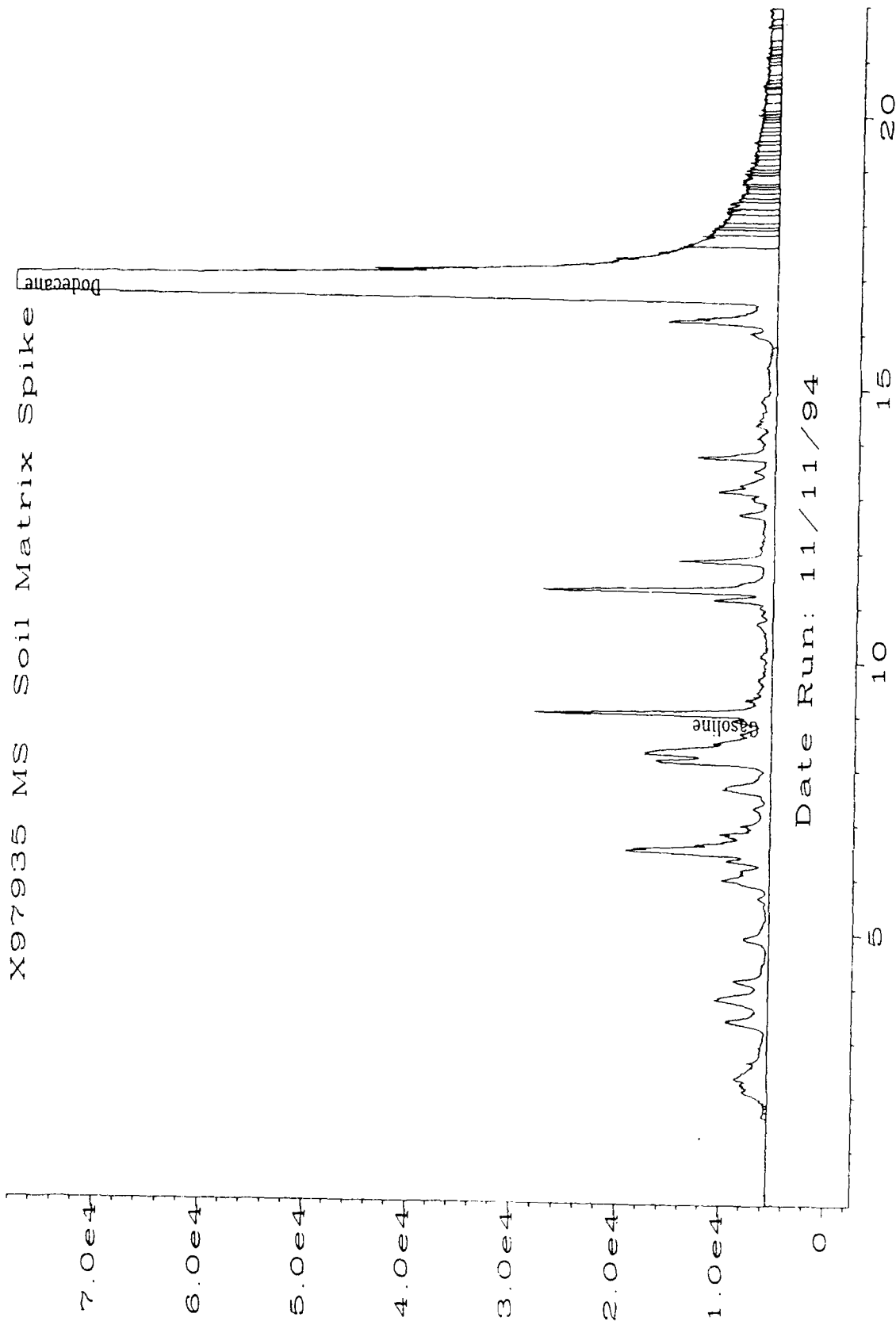
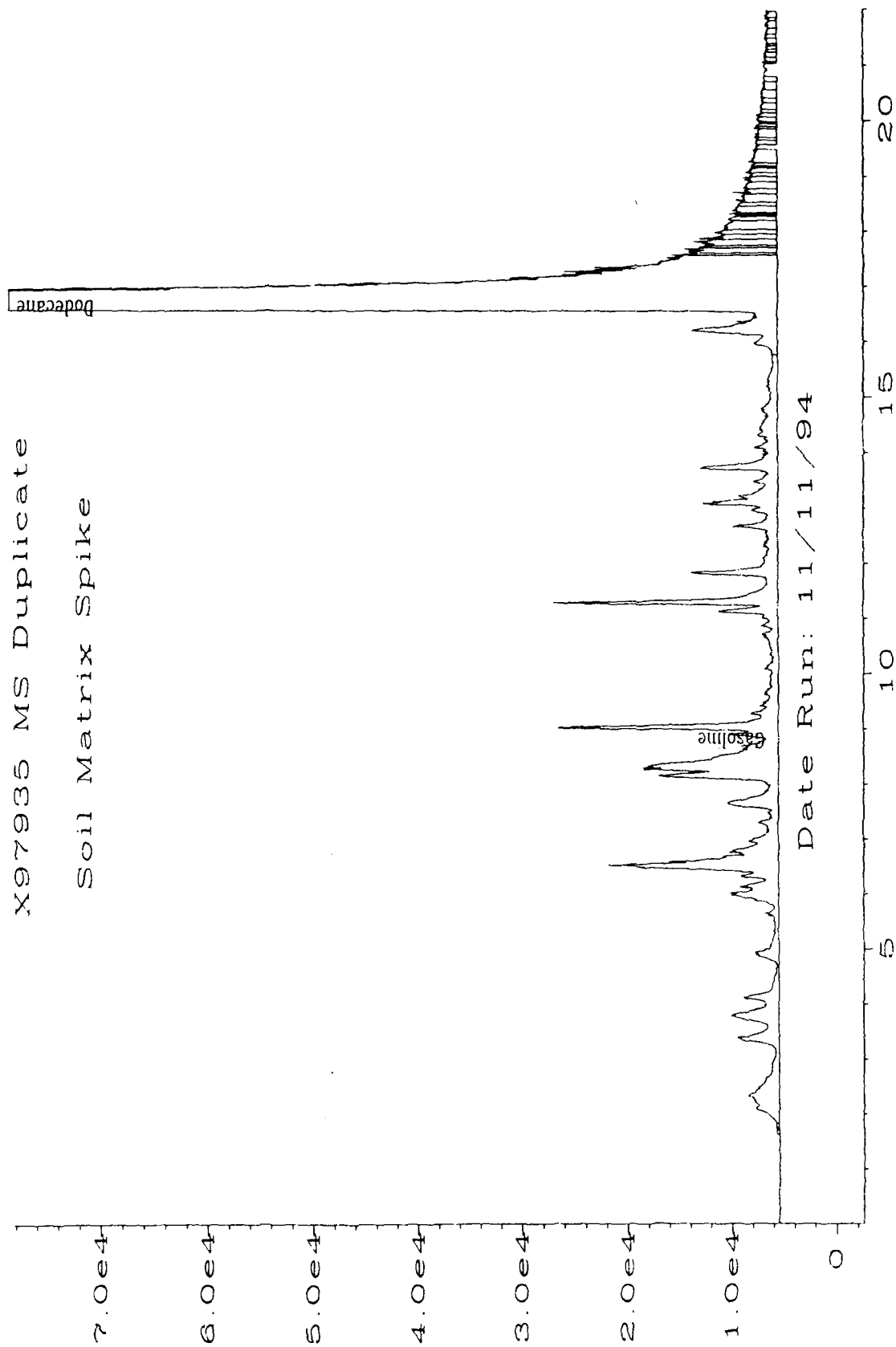


Fig. 1 in C:\NHP\CHEM\1\DATA\TVH1110\033F0101.D

X97935 MS Duplicate
Soil Matrix Spike



Sig. 1 in C:\HPCHEM\1\DATA\TVH1110\034F0101.D

EVERGREEN ANALYTICAL, INC.
4005 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS (TVH)
Laboratory Control Sample (LCS)

LCS Number	: LCS111194	Client Project Number	: 722450.01000
Date Prepared	: 11/10/94		Madison ANG
Date Analyzed	: 11/11/94	Lab Project Number	: 94-4373
Sequence Number	: TVH1110	Matrix	: Water
		Method Number	: 3500/Mod. 8015

<u>Compound Name</u>	<u>Theoretical Concentration mg/L</u>	<u>LCS Concentration mg/L</u>	<u>QC Limit mg/L</u>
Gasoline	10	8.485	6.0-14.0

QUALIFIERS

U = TEH analyzed for but not detected.

B = TEH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

NA = Not Available.



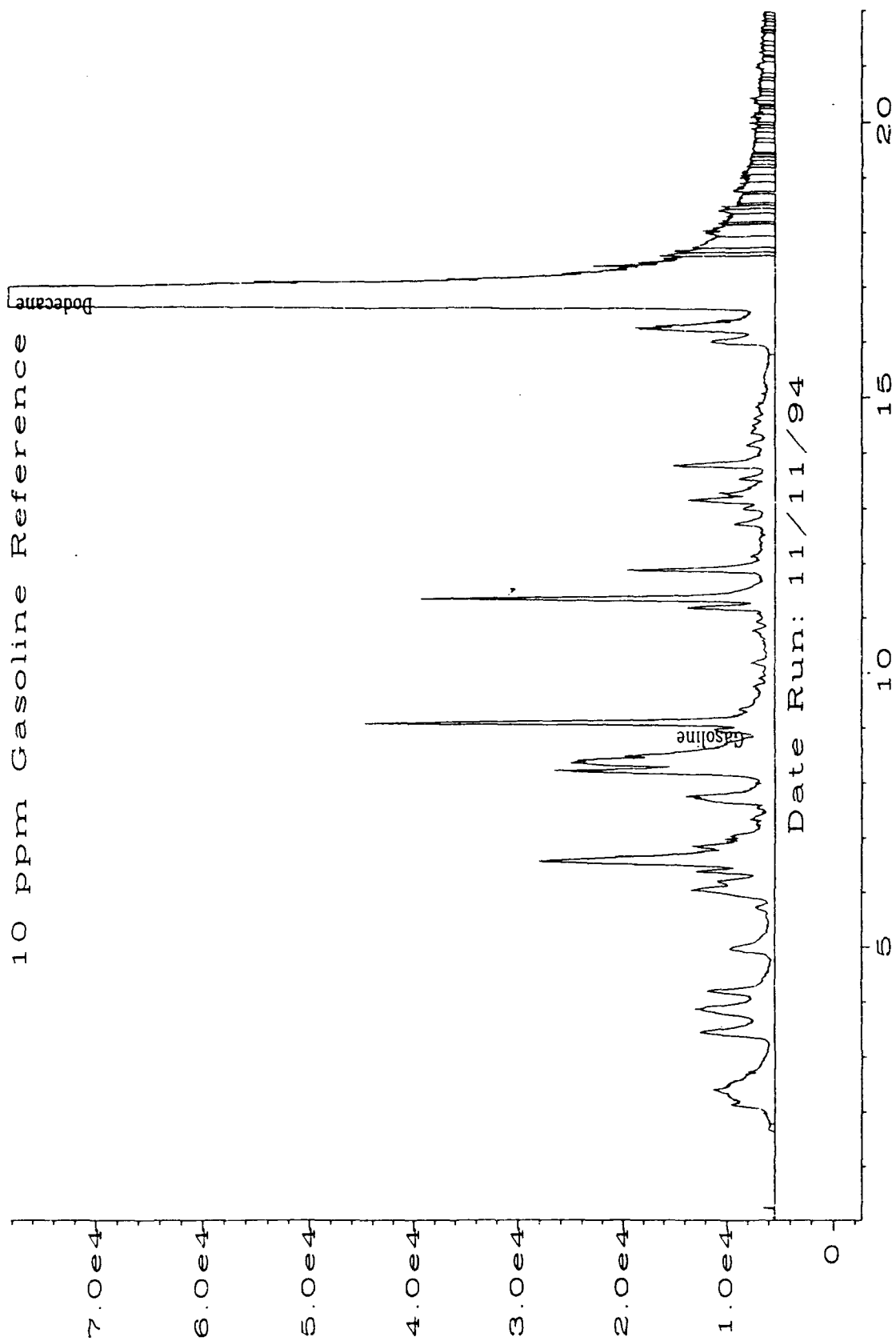
Analyst



Approved

LCS11194

10 ppm Gasoline Reference



Sig. 1 in C:\HPCHEM\1\DATA\TVH1110\030F0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS (TVH)
Laboratory Control Sample (LCS)

LCS Number	: LCS111594	Client Project Number	: 722450.01000
Date Prepared	: 11/14/94		Madison ANG
Date Analyzed	: 11/15/94	Lab Project Number	: 94-4373
Sequence Number	: TVH1114	Matrix	: Water
		Method Number	: 3500/Mod. 8015

<u>Compound Name</u>	<u>Theoretical Concentration mg/L</u>	<u>LCS Concentration mg/ L</u>	<u>QC Limit mg/L</u>
Gasoline	5	4.883	3.0-7.0

QUALIFIERS

U = TEH analyzed for but not detected.

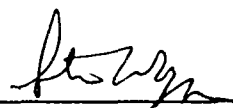
B = TEH found in blank as well as sample (blank data should be compared).

E = Extrapolated value.

NA = Not Available.



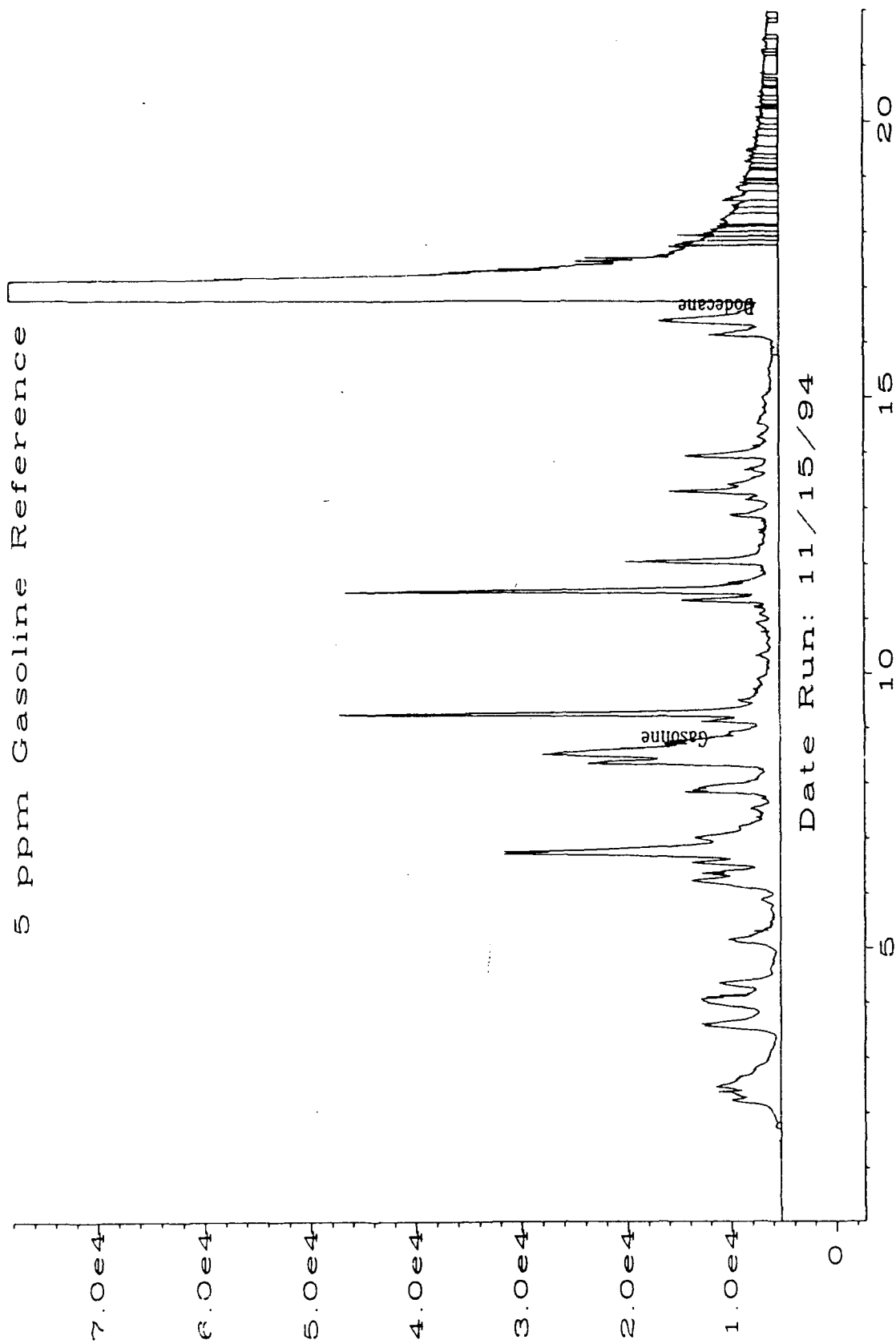
Analyst



Approved

LC5111594

5 ppm Gasoline Reference



Sig. 1 in C:\HPCHEM\1\DATA\TVH1114\019F0101.D



Evergreen

November 22, 1994

Ms. Gail Saxton
Engineering Science, Inc.
1700 Broadway Suite 900
Denver, CO 80290

Dear Ms. Saxton:

Enclosed is a revised case narrative from EAL project 94-4373. I am also enclosing the re-analyzed result for the trip blank and the MS/MSD re-analysis results.

The RPD results are still out of control. The MS/MSD were originally re-analyzed due to poor surrogate recovery of the MSD. The surrogate recoveries were acceptable upon re-analysis, however, the MS was on the low end of the acceptable range. It is doubtful that any of the data are affected by the unacceptable RPD results.

If you have any questions, do not hesitate to call me.

Sincerely,

Mark J. Mensik
Project Manager



CASE NARRATIVE

Evergreen Analytical Projects: 94-4373

Engineering Science, Inc. (ES) Project: Madison ANG

Subcontract Number: 722450.SC02

Sample Receipt

On November 9, 1994 five soil and five groundwater samples were received at Evergreen Analytical Laboratory (EAL) for analysis under the subcontract referenced above. Refer to the EAL Check-in Record for specific information regarding the condition of samples upon receipt at EAL. Refer to the EAL Sample Log Sheet for specific log-in information and cross-reference of EAL and ES sample identifications.

The sampling firm did not sign the chains-of-custody relinquishing the samples to Federal Express.

Missed Holding Times

These samples were originally sampled on September 16, 1994 and received at EAL on September 17, 1994 but were not analyzed within contract required holding times for BTEX/TMB, total volatile hydrocarbons and total extractable hydrocarbons. These samples were subsequently re-sampled and have been analyzed for the aforementioned analytes under an agreement between EAL and ES dated October 31, 1994. This data package contains the analytical results for these samples.

Sample CPT21-5.5 was identified as CPT21-6 on the original group of samples received September 17, 1994. Sample CPT10-5.5 from the original group of samples received September 17, 1994, was not resampled.

BTEX and Trimethylbenzenes (TMB)

TMBs were not requested on the chain-of-custody for the soil samples, however, they were included on the hard copy data reports. Gail Saxton of Engineering Science was informed of this and stated that this would not create a problem and requested that the TMBs remain on the hard copy reports. The TMB results are not included on the disk deliverables.

Sample CPT-19S was spiked. The percent recoveries for the matrix spike sample were all acceptable except for 1,2,4-trimethylbenzene. All percent recoveries for the matrix spike duplicate (MSD) were unacceptable, as were all RPD results. The poor MSD results are most likely due to a bad purge. The surrogate recovery for the MSD was 47%, which is lower than the low control limit. The MS and MSD are being re-analyzed. The results will be forwarded as soon as available. None of the data have been qualified based on the MS/MSD results.

The trip blank that accompanied the cooler containing the soil samples

Page 2
Case Narrative
Madison ANG (EAL# 94-4373)

(EAL sample X97940) exhibited low surrogate recovery. The sample is being re-analyzed. The results will be forwarded as soon as available.

Total Extractable Hydrocarbons (TEH)

There was no MSD sample analyzed for the water matrix samples due to insufficient sample volume. The MS result was acceptable.

Total Volatile Hydrocarbons (TVH)

There were no quality control anomalies to report.

Disk Deliverables

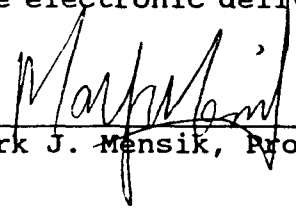
The disk deliverables are also included with the hard copy data package.

The results from this data package have been added to the disk deliverable from the first Madison ANG data package.

The total xylenes results on the hard copy and the disk deliverable are reported using two significant figures. The disk deliverable also includes results for m/p-xylene and o-xylene that are not reported on the hard copy. These results are reported using three significant figures in some instances.

A hardcopy of each spreadsheet included on the diskette are included. The name for each file is located in the top left corner on the first page of each spreadsheet printout.

The electronic deliverables are reported on Microsoft Excel version 5.0.



Mark J. Mensik, Project Manager

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report

Client Sample Number	: Trip Blank	Client Project No.	: Madison ANG
Lab Sample Number	: X97940	Lab Project No.	: 94-4373
Date Sampled	: 11/7/94	Dilution Factor	: 1.00
Date Received	: 11/9/94	Method	: 8020
Date Extracted/Prepared	: 11/16/94	Matrix	: Water
Date Analyzed	: 11/16/94	Lab File No.	: BX2111608
Methanol Extract?	: No	Method Blank No.	: MB111694

Compound Name	Cas Number	Sample Concentration ug/L	PQL ug/L
Benzene	71-43-2	U	4
Toluene	108-88-3	0.4 BJ	4
Ethyl Benzene	100-41-4	U	4
Total Xylene (m/p + o)	1330-20-7	0.7 BJ	4
1,3,5-trimethylbenzene	108-67-8	0.7 BJ	4
1,2,4-trimethylbenzene	95-63-6	U	4
1,2,3-trimethylbenzene	526-73-8	U	4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 100%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

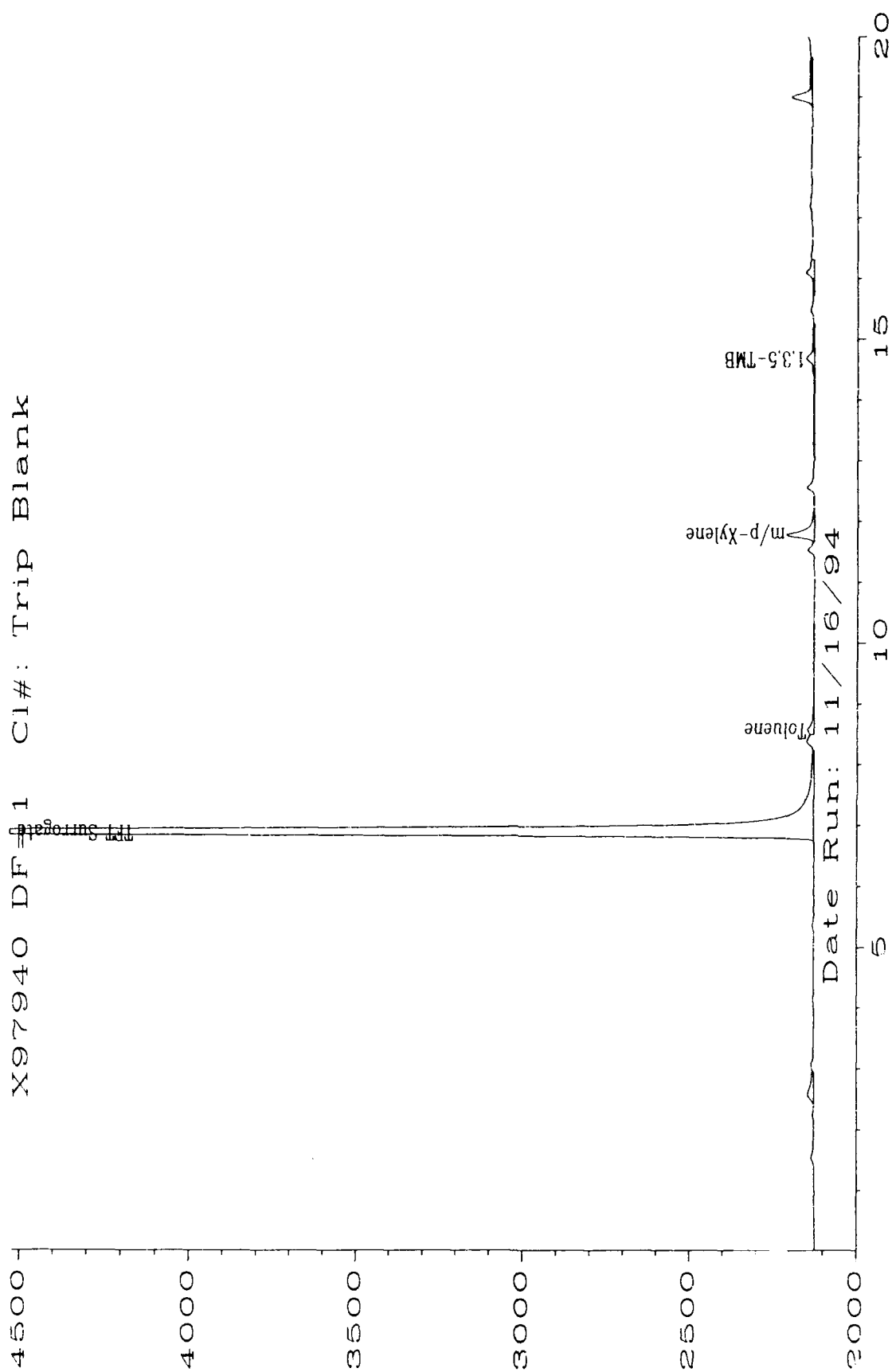
PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.

Analyst

Approved

X97940 DF=1 Cl#: Trip Blank



Sig. 2 in C:\HPCHEM\2\DATA\BX21116\008R0101.D

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

BTEX Data Report
Method Blank Report

Method Blank Number : MB111694
Date Extracted/Prepared : 11/16/94
Date Analyzed : 11/16/94

Client Project No. : Madison ANG
Lab Project No. : 94-4373
Dilution Factor : 1.00
Method : 8020
Matrix : Water
Lab File No. : BX2111603

Compound Name	Cas Number	Sample Concentration ug/L		PQL ug/L
Benzene	71-43-2	U		4
Toluene	108-88-3	0.7	J	4
Ethyl Benzene	100-41-4	U		4
Total Xylene (m/p + o)	1330-20-7	0.9	J	4
1,3,5-trimethylbenzene	108-67-8	0.6	J	4
1,2,4-trimethylbenzene	95-63-6	U		4
1,2,3-trimethylbenzene	526-73-8	U		4

Note: Total Xylene consist of three isomers, two of which co-elute.
The Xylene PQL is for a single peak.

Surrogate Recovery:

a,a,a,-Trifluorotoluene : 110%
QC Reporting Limits : 77%-116%

QUALIFIERS:

E = Extrapolated value

U = Compound analyzed for, but not detected.

B = Compound found in blank and sample. Compare blank and sample data.

J = Indicates an estimated value when the compound is detected, but is below the Practical Quantitation Limit (PQL).

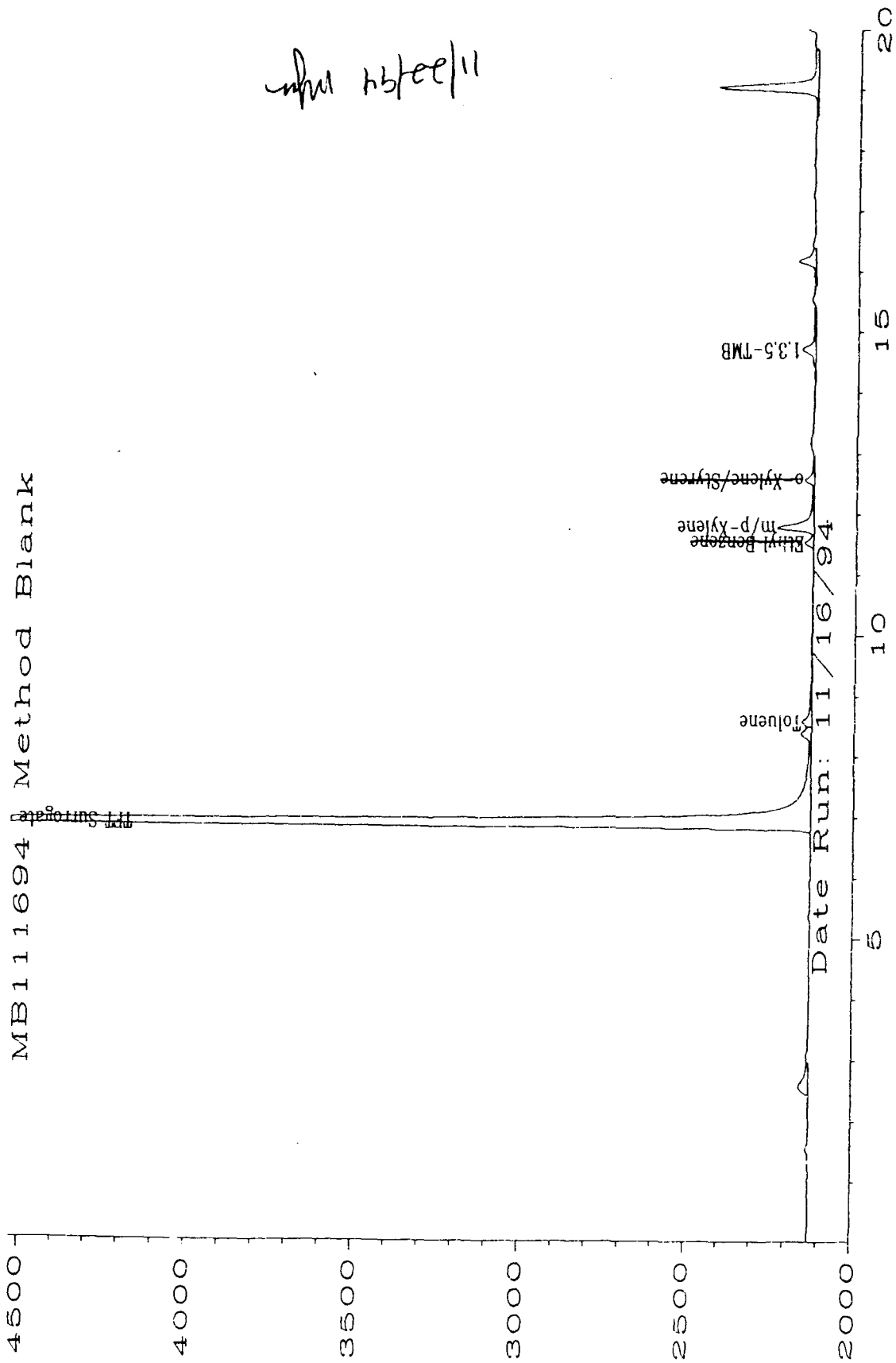
PQL = Practical Quantitation Limit. The PQL is equal to the dilution factor multiplied by ten times the Method Detection Limit as determined by EPA SW846, Vol. 1B, Part II, pa. 8000-14.

NA = Not available.

Analyst

Approved

MB111694 Method Blank



Sig. 2 in C:\HPCHEM\2\DATA\BX21116\003R0101.D

Evergreen Analytical, Inc.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

BTEX Water Matrix Spike/Matrix Spike Duplicate Data Report

Client Sample No.	: CPT-19S	Client Project No.	: Madison ANG
Lab Sample No.	: X97931	Lab Project No.	: 94-4373
Date Sampled	: 11/7/94	EPA Method No.	: 602
Date Received	: 11/9/94	Matrix	: Water
Date Prepared	: 11/16/94	Lab File Number(s)	: BX1111609,10
Date Analyzed	: 11/16/94	Method Blank	: MB111694

Compound	Spike Added (ug/L)	Sample Concentration (ug/L)	MS Concentration (ug/L)	MS %REC	QC Limits %REC
Benzene	20	0	17	85	65-121
Toluene	20	0.6	17.2	83	69-117
Ethyl Benzene	20	0.7	16.7	80	68-118
m/p-Xylene	20	2.5	16.2	68.5	66-116
o-Xylene	20	1.8	16.6	74	73-117
1,3,5-TMB	20	3.3	16.7	67	65-121
1,2,4-TMB	20	7.7	16.1	42 *	65-121
1,2,3-TMB	20	2.1	16.4	71.5	65-121

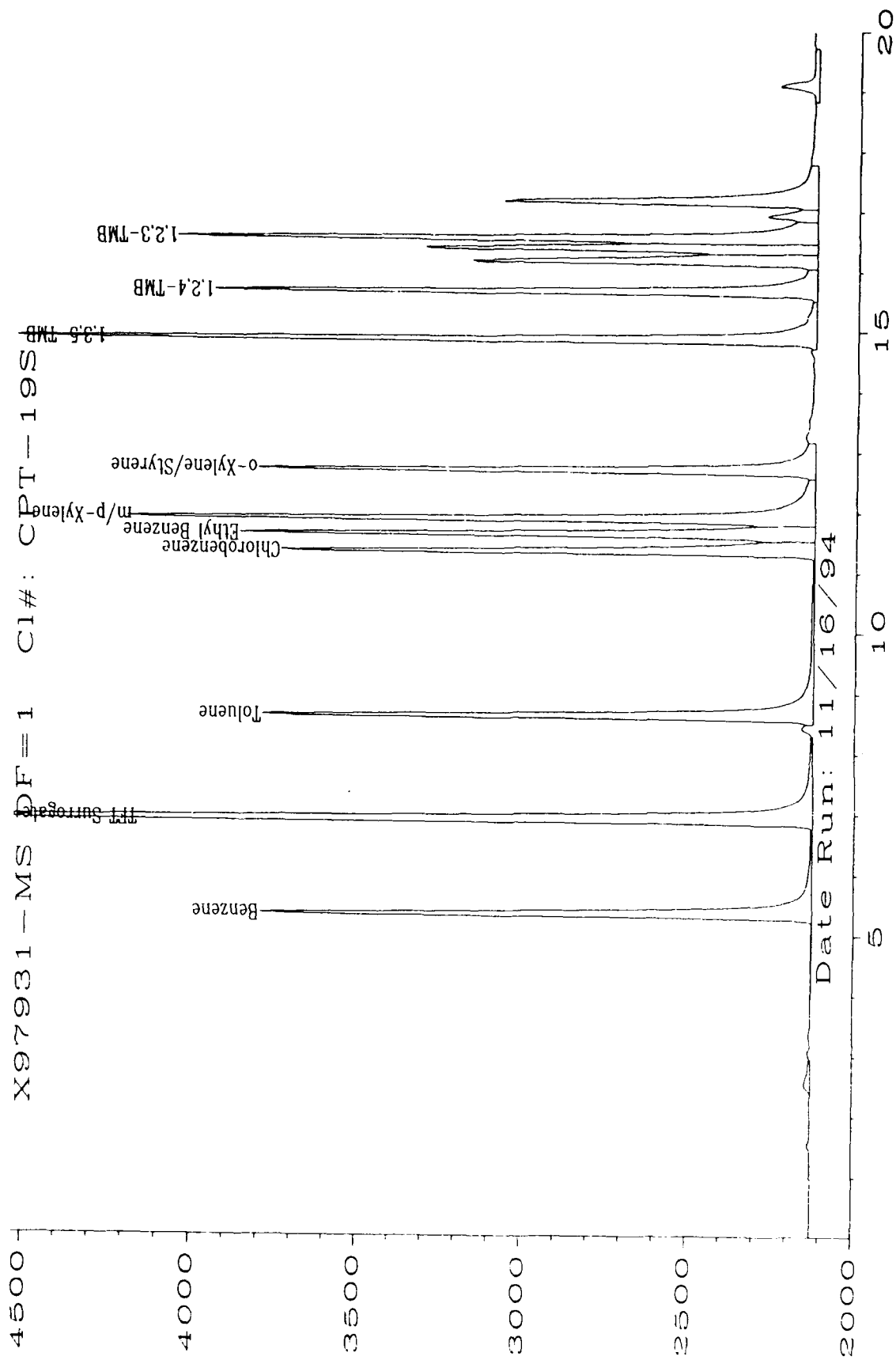
Compound	Spike Added (ug/L)	MSD Concentration (ug/L)	MS %REC	RPD	QC Limits	
					RPD	%REC
Benzene	20	19.8	99	15.2	17.4	65-121
Toluene	20	20	97	15.6	15.8	69-117
Ethyl Benzene	20	19.8	95.5	17.7 *	11.9	68-118
m/p-Xylene	20	19.5	85	21.5 *	15.4	66-116
o-Xylene	20	20.1	91.5	21.1 *	13.2	73-117
1,3,5-TMB	20	19.6	81.5	19.5 *	17.4	65-121
1,2,4-TMB	20	19.3	58 *	32.0 *	17.4	65-121
1,2,3-TMB	20	19.8	88.5	21.3 *	17.4	65-121

* = Values outside of QC limits.

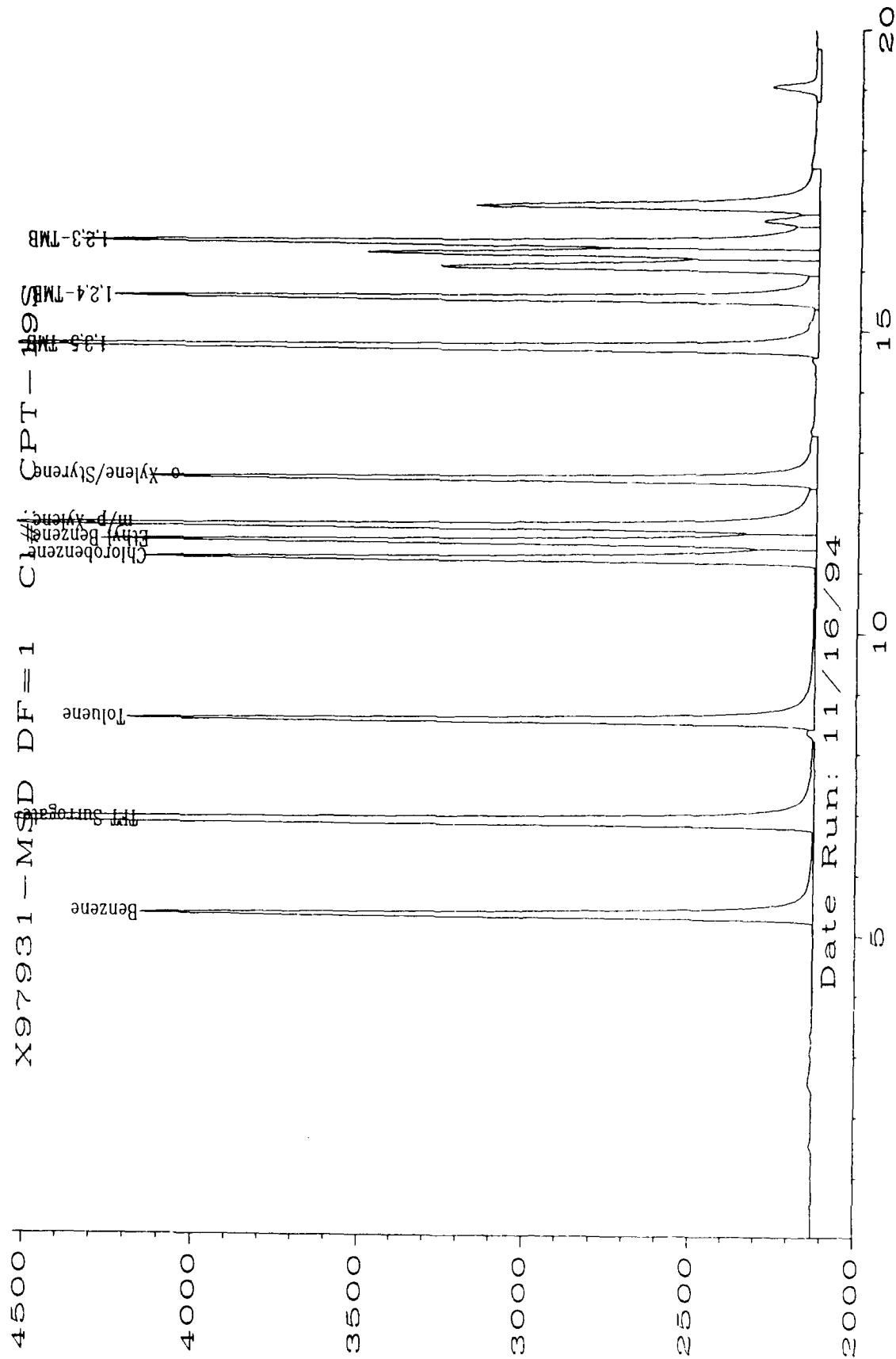
RPD: 6 out of (8) outside limits.

Spike Recovery: 2 out of (16) outside limits.

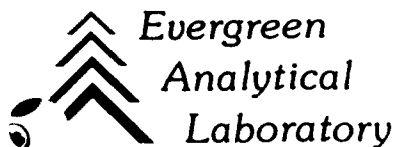
Comments: CJC



Sig. 2 in C:\HPCHEM\2\DATA\BX21116\009R0101.D



Sig. 2 in C:\HPCHEM\2\DATA\BX21116\O1ORC101.D



June 25, 1996

MR DAVE MOUTOUX
PARSONS ENGINEERING SCIENCE INC
1700 BROADWAY SUITE 900
DENVER, CO 80290

Work Order: 96-1829, 96-1849
Client Project: MADISON ANGB
729691.09110

Dear Mr. Moutoux:

Enclosed are the analytical results for the samples shown in the Work Order Summary. The enclosed data have been reviewed for quality assurance. If you have any questions concerning the reported information, please contact Patty McClellan, Program Manager.

Upon completion of all required analyses and acceptance of the data report by PES (within 3 weeks of final data package deliver), EAL will be responsible for proper disposal of any remaining samples, sample containers, shipping containers, and Styrofoam or plastic packing materials in accordance with sound environmental practices, based on the sample analytical results. However, EAL will give prior notification to and receive the approval of PES before disposing of any remaining samples. EAL will maintain proper records of waste disposal methods and disposal methods and disposal company contracts on file for inspection.

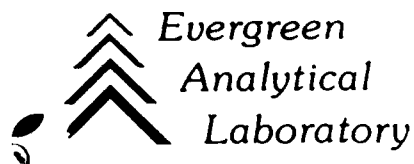
The invoice for this work will be mailed to your Accounts Payable department shortly.

Thank you for using the services of Evergreen Analytical.

Sincerely,

A handwritten signature in dark ink, appearing to read "J. Barney", with a stylized flourish at the end.

Jack Barney
President



CASE NARRATIVE

Evergreen Analytical Laboratory (EAL) Projects: 96-1829, 96-1849

Parsons Engineering Science, Inc. (PES) Project: Madison ANGB
729691.09110

Sample Receipt

Groundwater samples were received on June 5 and 6, 1996 at EAL for analysis under subcontract 722450.SC02. Refer to the EAL Check-in Record for specific information regarding the condition of samples upon receipt. Refer to the EAL Work Order Summary for specific log-in information and cross-reference of EAL and PES sample identifications.

Data Package

All data are reported in one comprehensive package that is segregated based upon EAL project number. Each EAL project represents a group of samples received on a given day. The EAL Sample Work Order summarizes the samples represented in each EAL project.

A separate invoice for each EAL project number will be generated.

Quality assurance data may overlap from one EAL project to another. All required matrix spike/matrix spike duplicate (MS/MSD) and laboratory control samples (LCS) were analyzed when required and also are included in the data package.

BTEX, Method SW8020/Total Volatile Hydrocarbons TVH, Method SW8015M

All samples were analyzed for BTEX/TVH within holding time.

Several samples were analyzed at dilutions ranging from a dilution factor of 10 to 100 due to elevated levels of contaminants of interest. The reporting limits have been adjusted accordingly.

There are no quality control anomalies to report.

Total Extractable Petroleum Hydrocarbons TEPH/JP4, Method SW8015M
All samples submitted for TEPH analysis were analyzed within holding time.

Please note that the surrogate used for these samples was JP4 rather than the JP5 surrogate traditionally used for samples under this contract.

Sample MW-8 was analyzed at a dilution factor of 2 due to elevated levels of TEPH present. The reporting limit was increased to reflect the dilution.

There were no quality control anomalies to report.

Methane, Method RSKSOP175M

All samples were analyzed for Methane within holding time.

Several samples were analyzed at dilutions ranging from a dilution factor of 50 to 100 due to the presence of methane. The reporting limits have been increased accordingly.

There are no quality control anomalies to report.

General Chemistry

There were no quality control anomalies to report for Anions by Method 300.0.

EAL does not have the capability to analyze for Mn^{2+} as requested. The request was disregarded per instructions from Dave Moutoux on June 5, 1996.

Disk Deliverables

The disk deliverables are included with the hard copy data package. MS/MSD and laboratory duplicate samples are not included on the disk. Please note that blank spaces in the laboratory detection limit and/or practical quantitation limit (PQL) column indicate that there is no detection limit or PQL for that analyte.

A hard copy of each spreadsheet from the diskette is included. The name for each spreadsheet is located in the top left corner of the first page of each printout.



Patricia A. McClellan, Program Manager
6/24/96

05-Jun-96

WORK ORDER Summary

Report To: Dave Moutoux

Parsons Engineering Science
1700 Broadway Suite 900
Denver, CO 80290

Client Project ID: Madison ANGB 729691.09110

Phone: (303) 831-8100

FAX: (303) 831-8208

Comments:

Sample ID	Client Sample ID	Analysis	#	Matrix	Loc	Collection	Received	Due	HT
96-1829-01H	CPT-1D	ANIONS by ION CHROMATOGRAPHY Cl,NO2,NO3,SO4		Water	D6	04-Jun-96	05-Jun-96	19-Jun-96	06-Jun-96
96-1829-02H	CPT-5D	ANIONS by ION CHROMATOGRAPHY Cl,NO2,NO3,SO4						19-Jun-96	06-Jun-96
96-1829-03H	CPT-5S	ANIONS by ION CHROMATOGRAPHY Cl,NO2,NO3,SO4						19-Jun-96	06-Jun-96
96-1829-04H	CPT-4D	ANIONS by ION CHROMATOGRAPHY Cl,NO2,NO3,SO4						19-Jun-96	06-Jun-96
96-1829-05H	MW-13	ANIONS by ION CHROMATOGRAPHY Cl,NO2,NO3,SO4						19-Jun-96	06-Jun-96
96-1829-06H	MW-12	ANIONS by ION CHROMATOGRAPHY Cl,NO2,NO3,SO4						19-Jun-96	06-Jun-96
96-1829-07H	CPT-20S	ANIONS by ION CHROMATOGRAPHY Cl,NO2,NO3,SO4						19-Jun-96	06-Jun-96
96-1829-08H	CPT-19S	ANIONS by ION CHROMATOGRAPHY Cl,NO2,NO3,SO4						19-Jun-96	06-Jun-96
96-1829-01A	CPT-1D	BTEX + TVPH (Parsons List)			2			10-Jun-96	18-Jun-96
96-1829-02A	CPT-5D	BTEX + TVPH (Parsons List)						10-Jun-96	18-Jun-96
96-1829-03A	CPT-5S	BTEX + TVPH (Parsons List)						10-Jun-96	18-Jun-96
96-1829-04A	CPT-4D	BTEX + TVPH (Parsons List)						10-Jun-96	18-Jun-96
96-1829-05A	MW-13	BTEX + TVPH (Parsons List)						10-Jun-96	18-Jun-96
96-1829-06A	MW-12	BTEX + TVPH (Parsons List)						10-Jun-96	18-Jun-96
96-1829-07A	CPT-20S	BTEX + TVPH (Parsons List)						10-Jun-96	18-Jun-96
96-1829-08A	CPT-19S	BTEX + TVPH (Parsons List)						10-Jun-96	18-Jun-96
96-1829-09A	Trip Blank	BTEX + TVPH (Parsons List)						10-Jun-96	
96-1829-10A	CPT-1DMS	BTEX + TVPH (Parsons List)				04-Jun-96		10-Jun-96	18-Jun-96
96-1829-10C	CPT-1DMSD	BTEX + TVPH (Parsons List)						10-Jun-96	18-Jun-96
96-1829-01E	CPT-1D	Methane						19-Jun-96	18-Jun-96
96-1829-02E	CPT-5D	Methane						19-Jun-96	18-Jun-96

= Special list. See sample comments or test information.

HT = Holding Time expiration date.

05-Jun-96

WORK ORDER Summary

Report To: Dave Moutoux

Parsons Engineering Science
1700 Broadway Suite 900
Denver, CO 80290

Client Project ID: Madison ANGB 729691.09110

Phone: (303) 831-8100

FAX: (303) 831-8208

Comments:

Sample ID	Client Sample ID	Analysis	#	Matrix	Loc	Collection	Received	Due	HT
96-1829-03E	CPT-3S	Methane		Water	2	04-Jun-96	05-Jun-96	19-Jun-96	18-Jun-96
96-1829-04E	CPT-4D	Methane						19-Jun-96	18-Jun-96
96-1829-05E	MW-13	Methane						19-Jun-96	18-Jun-96
96-1829-06E	MW-12	Methane						19-Jun-96	18-Jun-96
96-1829-07E	CPT-20S	Methane						19-Jun-96	18-Jun-96
96-1829-08E	CPT-19S	Methane						19-Jun-96	18-Jun-96
96-1829-06I	MW-12	TEPH (JP-4)			D6			10-Jun-96	18-Jun-96
96-1829-08I	CPT-19S	TEPH (JP-4)						10-Jun-96	18-Jun-96
96-1829-04I	CPT-4D	TOTAL ALKALINITY						19-Jun-96	18-Jun-96
96-1829-05I	MW-13	TOTAL ALKALINITY						19-Jun-96	18-Jun-96
96-1829-08I	CPT-19S	TOTAL ALKALINITY						19-Jun-96	18-Jun-96

= Special list See sample comments or test information
HT = Holding Time expiration date.

Evergreen Analytical Inc.

4036 Youngfield St.
Wheat Ridge, Colorado 80033
(303) 425-6021
FAX (303) 425-6854
(800) 845-7400

FAX RESULTS Y / (N)

CLIENT CONTACT (print) Dave Montoya age 101
PROJECT ID Medison ANAB 727671 CHIC
EAL QUOTE # _____ PO # _____
TURNAROUND REQUIRED* ☐ STD (2 wks) ☐ STD UST (3 day)

☐ Other (Specify) _____

*expedited turnaround subject to additional fee

ANALYSIS REQUESTED

EAL use only
Do not write
in shaded area

EAL
Project # 96-1829
Custodian *[Signature]*

EAL Sample No.

EAL use only Do not write in shaded area			ANALYSIS REQUESTED															EAL Sample No.	
EAL Project # 96-1829 Custodian <i>Yefim</i>			<i>Calcium</i> <i>CI: SVT, AC, ALG, MNC</i> <i>Methylene</i> <i>Dissolved Metals - DW / SW846</i> <i>(circle & list metals below)</i> <i>Total Metals-DW / VPDES / SW846</i> <i>(circle & list metals below)</i> <i>TEPH 8015mod (Gasoline)</i> <i>TPH 418 1/Oil & Grease 413 1 (circle)</i> <i>TRPH 418 1/Oil & Grease 413 1 (circle)</i> <i>BTEX 8020/602 (circle)/MTBE (circle)</i> <i>PCB Screen</i> <i>Herbicides 8150/515 (circle)</i> <i>Pest/PCBs 8080/608/508 (circle)</i> <i>Pesticides 8080/608 (circle)</i> <i>BNA 8270/625 (circle)</i> <i>VOA 8260/624/524.2 (circle)</i> <i>(circle)</i> <i>TCLP VOA/BNA/Pest/Herb/Metals</i>															EAL	
																		01A-H	
																		02A-H	
																		03A-H	
																		04A-I	
																		05A-I	
																		06A-I	
																		07A-H	
																		08A-J	
																		09A	
10A-D																			
Location 2, D6			Container Size 40', 125'																

No of Containers			MATRIX		ANALYSIS REQUESTED															EAL Sample No.	
No of Containers			Water-Drinking/Discharge/Ground (circle) Soil / Solid Cil / Sludge		<i>Calcium</i> <i>CI: SVT, AC, ALG, MNC</i> <i>Methylene</i> <i>Dissolved Metals - DW / SW846</i> <i>(circle & list metals below)</i> <i>Total Metals-DW / VPDES / SW846</i> <i>(circle & list metals below)</i> <i>TEPH 8015mod (Gasoline)</i> <i>TPH 418 1/Oil & Grease 413 1 (circle)</i> <i>TRPH 418 1/Oil & Grease 413 1 (circle)</i> <i>BTEX 8020/602 (circle)/MTBE (circle)</i> <i>PCB Screen</i> <i>Herbicides 8150/515 (circle)</i> <i>Pest/PCBs 8080/608/508 (circle)</i> <i>Pesticides 8080/608 (circle)</i> <i>BNA 8270/625 (circle)</i> <i>VOA 8260/624/524.2 (circle)</i> <i>(circle)</i> <i>TCLP VOA/BNA/Pest/Herb/Metals</i>															EAL	
																				01A-H	
																				02A-H	
																				03A-H	
																				04A-I	
																				05A-I	
																				06A-I	
																				07A-H	
																				08A-J	
																				09A	
10A-D																					
Location 2, D6			Container Size 40', 125'																		

No of Containers			MATRIX		ANALYSIS REQUESTED															EAL Sample No.	
No of Containers			Water-Drinking/Discharge/Ground (circle) Soil / Solid Cil / Sludge		<i>Calcium</i> <i>CI: SVT, AC, ALG, MNC</i> <i>Methylene</i> <i>Dissolved Metals - DW / SW846</i> <i>(circle & list metals below)</i> <i>Total Metals-DW / VPDES / SW846</i> <i>(circle & list metals below)</i> <i>TEPH 8015mod (Gasoline)</i> <i>TPH 418 1/Oil & Grease 413 1 (circle)</i> <i>TRPH 418 1/Oil & Grease 413 1 (circle)</i> <i>BTEX 8020/602 (circle)/MTBE (circle)</i> <i>PCB Screen</i> <i>Herbicides 8150/515 (circle)</i> <i>Pest/PCBs 8080/608/508 (circle)</i> <i>Pesticides 8080/608 (circle)</i> <i>BNA 8270/625 (circle)</i> <i>VOA 8260/624/524.2 (circle)</i> <i>(circle)</i> <i>TCLP VOA/BNA/Pest/Herb/Metals</i>															EAL	
																				01A-H	
																				02A-H	
																				03A-H	
																				04A-I	
																				05A-I	
																				06A-I	
																				07A-H	
																				08A-J	
																				09A	
10A-D																					
Location 2, D6			Container Size 40', 125'																		

No of Containers			MATRIX		ANALYSIS REQUESTED															EAL Sample No.	
No of Containers			Water-Drinking/Discharge/Ground (circle) Soil / Solid Cil / Sludge		<i>Calcium</i> <i>CI: SVT, AC, ALG, MNC</i> <i>Methylene</i> <i>Dissolved Metals - DW / SW846</i> <i>(circle & list metals below)</i> <i>Total Metals-DW / VPDES / SW846</i> <i>(circle & list metals below)</i> <i>TEPH 8015mod (Gasoline)</i> <i>TPH 418 1/Oil & Grease 413 1 (circle)</i> <i>TRPH 418 1/Oil & Grease 413 1 (circle)</i> <i>BTEX 8020/602 (circle)/MTBE (circle)</i> <i>PCB Screen</i> <i>Herbicides 8150/515 (circle)</i> <i>Pest/PCBs 8080/608/508 (circle)</i> <i>Pesticides 8080/608 (circle)</i> <i>BNA 8270/625 (circle)</i> <i>VOA 8260/624/524.2 (circle)</i> <i>(circle)</i> <i>TCLP VOA/BNA/Pest/Herb/Metals</i>															EAL	
																				01A-H	
																				02A-H	
																				03A-H	
																				04A-I	
																				05A-I	
																				06A-I	
																				07A-H	
																				08A-J	
																				09A	
10A-D																					
Location 2, D6			Container Size 40', 125'																		

No of Containers			MATRIX		ANALYSIS REQUESTED															EAL Sample No.	
No of Containers			Water-Drinking/Discharge/Ground (circle) Soil / Solid Cil / Sludge		<i>Calcium</i> <i>CI: SVT, AC, ALG, MNC</i> <i>Methylene</i> <i>Dissolved Metals - DW / SW846</i> <i>(circle & list metals below)</i> <i>Total Metals-DW / VPDES / SW846</i> <i>(circle & list metals below)</i> <i>TEPH 8015mod (Gasoline)</i> <i>TPH 418 1/Oil & Grease 413 1 (circle)</i> <i>TRPH 418 1/Oil & Grease 413 1 (circle)</i> <i>BTEX 8020/602 (circle)/MTBE (circle)</i> <i>PCB Screen</i> <i>Herbicides 8150/515 (circle)</i> <i>Pest/PCBs 8080/608/508 (circle)</i> <i>Pesticides 8080/608 (circle)</i> <i>BNA 8270/625 (circle)</i> <i>VOA 8260/624/524.2 (circle)</i> <i>(circle)</i> <i>TCLP VOA/BNA/Pest/Herb/Metals</i>															EAL	
																				01A-H	
																				02A-H	
																				03A-H	
																				04A-I	
																				05A-I	
																				06A-I	
																				07A-H	
																				08A-J	
																				09A	
10A-D																					
Location 2, D6			Container Size 40', 125'																		

No of Containers			MATRIX		ANALYSIS REQUESTED															EAL Sample No.	
No of Containers			Water-Drinking/Discharge/Ground (circle) Soil / Solid Cil / Sludge		<i>Calcium</i> <i>CI: SVT, AC, ALG, MNC</i> <i>Methylene</i> <i>Dissolved Metals - DW / SW846</i> <i>(circle & list metals below)</i> <i>Total Metals-DW / VPDES / SW846</i> <i>(circle & list metals below)</i> <i>TEPH 8015mod (Gasoline)</i> <i>TPH 418 1/Oil & Grease 413 1 (circle)</i> <i>TRPH 418 1/Oil & Grease 413 1 (circle)</i> <i>BTEX 8020/602 (circle)/MTBE (circle)</i> <i>PCB Screen</i> <i>Herbicides 8150/515 (circle)</i> <i>Pest/PCBs 8080/608/508 (circle)</i> <i>Pesticides 8080/608 (circle)</i> <i>BNA 8270/625 (circle)</i> <i>VOA 8260/624/524.2 (circle)</i> <i>(circle)</i> <i>TCLP VOA/BNA/Pest/Herb/Metals</i>															EAL	
																				01A-H	
																				02A-H	
																				03A-H	
																				04A-I	
																				05A-I	
																				06A-I	
																				07A-H	
																				08A-J	
																				09A	
10A-D																					
Location 2, D6			Container Size 40', 125'																		

No of Containers			MATRIX		ANALYSIS REQUESTED															EAL Sample No.	
No of Containers			Water-Drinking/Discharge/Ground (circle) Soil / Solid Cil / Sludge		<i>Calcium</i> <i>CI: SVT, AC, ALG, MNC</i> <i>Methylene</i> <i>Dissolved Metals - DW / SW846</i> <i>(circle & list metals below)</i> <i>Total Metals-DW / VPDES / SW846</i> <i>(circle & list metals below)</i> <i>TEPH 8015mod (Gasoline)</i> <i>TPH 418 1/Oil & Grease 413 1 (circle)</i> <i>TRPH 418 1/Oil & Grease 413 1 (circle)</i> <i>BTEX 8020/602 (circle)/MTBE (circle)</i> <i>PCB Screen</i> <i>Herbicides 8150/515 (circle)</i> <i>Pest/PCBs 8080/608/508 (circle)</i> <i>Pesticides 8080/608 (circle)</i> <i>BNA 8270/625 (circle)</i> <i>VOA 8260/624/524.2 (circle)</i> <i>(circle)</i> <i>TCLP VOA/BNA/Pest/Herb/Metals</i>															EAL	
																				01A-H	
																				02A-H	
																				03A-H	
																				04A-I	
																				05A-I	
																				06A-I	
																				07A-H	
																				08A-J	
																				09A	
10A-D																					
Location 2, D6			Container Size 40', 125'																		

No of Containers			MATRIX		ANALYSIS REQUESTED															EAL Sample No.	
No of Containers			Water-Drinking/Discharge/Ground (circle) Soil / Solid Cil / Sludge		<i>Calcium</i> <i>CI: SVT, AC, ALG, MNC</i> <i>Methylene</i> <i>Dissolved Metals - DW / SW846</i> <i>(circle & list metals below)</i> <i>Total Metals-DW / VPDES / SW846</i> <i>(circle & list metals below)</i> <i>TEPH 8015mod (Gasoline)</i> <i>TPH 418 1/Oil & Grease 413 1 (circle)</i> <i>TRPH 418 1/Oil & Grease 413 1 (circle)</i> <i>BTEX 8020/602 (circle)/MTBE (circle)</i> <i>PCB Screen</i> <i>Herbicides 8150/515 (circle)</i> <i>Pest/PCBs 8080/608/508 (circle)</i> <i>Pesticides 8080/608 (circle)</i> <i>BNA 8270/625 (circle)</i> <i>VOA 8260/624/524.2 (circle)</i> <i>(circle)</i> <i>TCLP VOA/BNA/Pest/Herb/Metals</i>															EAL	
																				01A-H	
																				02A-H	
																				03A-H	
																				04A-I	
																				05A-I	
																				06A-I	
																				07A-H	
																				08A-J	
																				09A	
10A-D																					
Location 2, D6			Container Size 40', 125'																		

No of Containers			MATRIX		ANALYSIS REQUESTED															EAL Sample No.	
No of Containers			Water-Drinking/Discharge/Ground (circle) Soil / Solid Cil / Sludge		<i>Calcium</i> <i>CI: SVT, AC, ALG, MNC</i> <i>Methylene</i> <i>Dissolved Metals - DW / SW846</i> <i>(circle & list metals below)</i> <i>Total Metals-DW / VPDES / SW846</i> <i>(circle & list metals below)</i> <i>TEPH 8015mod (Gasoline)</i> <i>TPH 418 1/Oil & Grease 413 1 (circle)</i> <i>TRPH 418 1/Oil & Grease 413 1 (circle)</i> <i>BTEX 8020/602 (circle)/MTBE (circle)</i> <i>PCB Screen</i> <i>Herbicides 8150/515 (circle)</i> <i>Pest/PCBs 8080/608/508 (circle)</i> <i>Pesticides 8080/608 (circle)</i> <i>BNA 8270/625 (circle)</i> <i>VOA 8260/624/524.2 (circle)</i> <i>(circle)</i> <i>TCLP VOA/BNA/Pest/Herb/Metals</i>															EAL	
																				01A-H	
																				02A-H	
																				03A-H	
																				04A-I	
																				05A-I	
																				06A-I	
																				07A-H	
																				08A-J	
																				09A	
10A-D																					
Location 2, D6			Container Size 40', 125'																		

No of Containers			MATRIX		ANALYSIS REQUESTED															EAL Sample No.	
No of Containers			Water-Drinking/Discharge/Ground (circle) Soil / Solid Cil / Sludge		<i>Calcium</i> <i>CI: SVT, AC, ALG, MNC</i> <i>Methylene</i> <i>Dissolved Metals - DW / SW846</i> <i>(circle & list metals below)</i> <i>Total Metals-DW / VPDES / SW846</i> <i>(circle & list metals below)</i> <i>TEPH 8015mod (Gasoline)</i> <i>TPH 418 1/Oil & Grease 413 1 (circle)</i> <i>TRPH 418 1/Oil & Grease 413 1 (circle)</i> <i>BTEX 8020/602 (circle)/MTBE (circle)</i> <i>PCB Screen</i> <i>Herbicides 8150/515 (circle)</i> <i>Pest/PCBs 8080/608/508 (circle)</i> <i>Pesticides 8080/608 (circle)</i> <i>BNA 8270/625 (circle)</i> <i>VOA 8260/624/524.2 (circle)</i> <i>(circle)</i> <i>TCLP VOA/BNA/Pest/Herb/Metals</i>															EAL	
																				01A-H	
																				02A-H	
																				03A-H	
																				04A-I	
																				05A-I	
																				06A-I	
																				07A-H	
																				08A-J	
																				09A	
10A-D																					
Location 2, D6			Container Size 40', 125'																		

No of Containers			MATRIX		ANALYSIS REQUESTED															EAL Sample No.	
No of Containers			Water-Drinking/Discharge/Ground (circle) Soil / Solid Cil / Sludge		<i>Calcium</i> <i>CI: SVT, AC, ALG, MNC</i> <i>Methylene</i> <i>Dissolved Metals - DW / SW846</i> <i>(circle & list metals below)</i> <i>Total Metals-DW / VPDES / SW846</i> <i>(circle & list metals below)</i> <i>TEPH 8015mod (Gasoline)</i> <i>TPH 418 1/Oil & Grease 413 1 (circle)</i> <i>TRPH 418 1/Oil & Grease 413 1 (circle)</i> <i>BTEX 8020/602 (circle)/MTBE (circle)</i> <i>PCB Screen</i> <i>Herbicides 8150/515 (circle)</i> <i>Pest/PCBs 8080/608/508 (circle)</i> <i>Pesticides 8080/608 (circle)</i> <i>BNA 8270/625 (circle)</i> <i>VOA 8260/624/524.2 (circle)</i> <i>(circle)</i> <i>TCLP VOA/BNA/Pest/Herb/Metals</i>															EAL	
																				01A-H	
																				02A-H	
																				03A-H	
																				04A-I	
																				05A-I	
																				06A-I	
																				07A-H	
																				08A-J	
																				09A	
10A-D																					
Location 2, D6			Container Size 40', 125'																		

No of Containers			MATRIX		ANALYSIS REQUESTED															EAL Sample No.	
No of Containers			Water-Drinking/Discharge/Ground (circle) Soil / Solid Cil / Sludge		<i>Calcium</i> <i>CI: SVT, AC, ALG, MNC</i> <i>Methylene</i> <i>Dissolved Metals - DW / SW846</i> <i>(circle & list metals below)</i> <i>Total Metals-DW / VPDES / SW846</i> <i>(circle & list metals below)</i> <i>TEPH 8015mod (Gasoline)</i> <i>TPH 418 1/Oil & Grease 413 1 (circle)</i> <i>TRPH 418 1/Oil & Grease 413 1 (circle)</i> <i>BTEX 8020/602 (circle)/MTBE (circle)</i> <i>PCB Screen</i> <i>Herbicides 8150/515 (circle)</i> <i>Pest/PCBs 8080/608/508 (circle)</i> <i>Pesticides 8080/608 (circle)</i> <i>BNA 8270/625 (circle)</i> <i>VOA 8260/624/524.2 (circle)</i> <i>(circle)</i> <i>TCLP VOA/BNA/Pest/Herb/Metals</i>															EAL	
																				01A-H	
																				02A-H	
																				03A-H	
																				04A-I	
																				05A-I	
																				06A-I	
																				07A-H	
																				08A-J	
																				09A	
10A-D																					
Location 2, D6			Container Size 40', 125'																		

No of Containers			MATRIX		ANALYSIS REQUESTED															EAL Sample No.	
No of Containers			Water-Drinking/Discharge/Ground (circle) Soil / Solid Cil / Sludge		<i>Calcium</i> <i>CI: SVT, AC, ALG, MNC</i> <i>Methylene</i> <i>Dissolved Metals - DW / SW846</i> <i>(circle & list metals below)</i> <i>Total Metals-DW / VPDES / SW846</i> <i>(circle & list metals below)</i> <i>TEPH 8015mod (Gasoline)</i> <i>TPH 418 1/Oil & Grease 413 1 (circle)</i> <i>TRPH 418 1/Oil & Grease 413 1 (circle)</i> <i>BTEX 8020/602 (circle)/MTBE (circle)</i> <i>PCB Screen</i> <i>Herbicides 8150/515 (circle)</i> <i>Pest/PCBs 8080/608/508 (circle)</i> <i>Pesticides 8080/608 (circle)</i> <i>BNA 8270/625 (circle)</i> <i>VOA 8260/624/524.2 (circle)</i> <i>(circle)</i> <i>TCLP VOA/BNA/Pest/Herb/Metals</i>															EAL	
																				01A-H	
																				02A-H	
																				03A-H	
																				04A-I	
																				05A-I	
																				06A-I	
																				07A-H	
																				08A-J	
																				09A	
10A-D																					
Location 2, D6			Container Size 40', 125'																		

No of Containers			MATRIX		ANALYSIS REQUESTED															EAL Sample No.	
No of Containers			Water-Drinking/Discharge/Ground (circle) Soil / Solid Cil / Sludge		<i>Calcium</i> <i>CI: SVT, AC, ALG, MNC</i> <i>Methylene</i> <i>Dissolved Metals - DW / SW846</i> <i>(circle & list metals below)</i> <i>Total Metals-DW / VPDES / SW846</i> <i>(circle & list metals below)</i> <i>TEPH 8015mod (Gasoline)</i> <i>TPH 418 1/Oil & Grease 413 1 (circle)</i> <i>TRPH 418 1/Oil & Grease 413 1 (circle)</i> <i>BTEX 8020/602 (circle)/MTBE (circle)</i> <i>PCB Screen</i> <i>Herbicides 8150/515 (circle)</i> <i>Pest/PCBs 8080/608/508 (circle)</i> <i>Pesticides 8080/608 (circle)</i> <i>BNA 8270/625 (circle)</i> <i>VOA 8260/624/524.2 (circle)</i> <i>(circle)</i> <i>TCLP VOA/BNA/Pest/Herb/Metals</i>															EAL	
																				01A-H	
																				02A-H	
																				03A-H	
																				04A-I	
																				05A-I	
																				06A-I	
																				07A-H	
																				08A-J	
																				09A	
10A-D																					
Location 2, D6			Container Size 40', 125'																		

No of Containers			MATRIX		ANALYSIS REQUESTED															EAL Sample No.	
No of Containers			Water-Drinking/Discharge/Ground (circle) Soil / Solid Cil / Sludge		<i>Calcium</i> <i>CI: SVT, AC, ALG, MNC</i> <i>Methylene</i> <i>Dissolved Metals - DW / SW846</i> <i>(circle & list metals below)</i> <i>Total Metals-DW / VPDES / SW846</i> <i>(circle & list metals below)</i> <i>TEPH 8015mod (Gasoline)</i> <i>TPH 418 1/Oil & Grease 413 1 (circle)</i> <i>TRPH 418 1/Oil & Grease 413 1 (circle)</i> <i>BTEX 8020/602 (circle)/MTBE (circle)</i> <i>PCB Screen</i> <i>Herbicides 8150/515 (circle)</i> <i>Pest/PCBs 8080/608/508 (circle)</i> <i>Pesticides 8080/608 (circle)</i> <i>BNA 8270/625 (circle)</i> <i>VOA 8260/624/524.2 (circle)</i> <i>(circle)</i> <i>TCLP VOA/BNA/Pest/Herb/Metals</i>															EAL	
																				01A-H	
																				02A-H	
																				03A-H	
																				04A-I	
																				05A-I	
																				06A-I	
																				07A-H	
																				08A-J	
																				09A	
10A-D																					
Location 2, D6			Container Size 40', 125'																		

No of Containers			MATRIX		ANALYSIS REQUESTED															EAL Sample No.	
No of Containers			Water-Drinking/Discharge/Ground (circle) Soil / Solid Cil / Sludge		<i>Calcium</i> <i>CI: SVT, AC, ALG, MNC</i> <i>Methylene</i> <i>Dissolved Metals - DW / SW846</i> <i>(circle & list metals below)</i> <i>Total Metals-DW / VPDES / SW846</i> <i>(circle & list metals below)</i> <i>TEPH 8015mod (Gasoline)</i> <i>TPH 418 1/Oil & Grease 413 1 (circle)</i> <i>TRPH 418 1/Oil & Grease 413 1 (circle)</i> <i>BTEX 8020/602 (circle)/MTBE (circle)</i> <i>PCB Screen</i> <i>Herbicides 8150/515 (circle)</i> <i>Pest/PCBs 8080/608/508 (circle)</i> <i>Pesticides 8080/608 (circle)</i> <i>BNA 8270/625 (circle)</i> <i>VOA 8260/624/524.2 (circle)</i> <i>(circle)</i> <i>TCLP VOA/BNA/Pest/Herb/Metals</i>															EAL	
																				01A-H	
																				02A-H	
																				03A-H	
																				04A-I	
																				05A-I	
																				06A-I	
																				07A-H	
																				08A-J	
																				09A	
10A-D																					
Location 2, D6			Container Size 40', 125'																		

No of Containers			MATRIX		ANALYSIS REQUESTED															EAL Sample No.	
No of Containers			Water-Drinking/Discharge/Ground (circle) Soil / Solid Cil / Sludge		<i>Calcium</i> <i>CI: SVT, AC, ALG, MNC</i> <i>Methylene</i> <i>Dissolved Metals - DW / SW846</i> <i>(circle & list metals below)</i> <i>Total Metals-DW / VPDES / SW846</i> <i>(circle & list metals below)</i> <i>TEPH 8015mod (Gasoline)</i> <i>TPH 418 1/Oil & Grease 413 1 (circle)</i> <i>TRPH 418 1/Oil & Grease 413 1 (circle)</i> <i>BTEX 8020/602 (circle)/MTBE (circle)</i> <i>PCB Screen</i> <i>Herbicides 8150/515 (circle)</i> <i>Pest/PCBs 8080/608/508 (circle)</i> <i>Pesticides 8080/608 (circle)</i> <i>BNA 8270/625 (circle)</i> <i>VOA 8260/624/524.2 (circle)</i> <i>(circle)</i> <i>TCLP VOA/BNA/Pest/Herb/Metals</i>															EAL	
																				01A-H	
																				02A-H	
																				03A-H	
																				04A-I	
																				05A-I	
																				06A-I	
																				07A-H	
																				08A-J	
																				09A	
10A-D																					
Location 2, D6			Container Size 40', 125'																		

No of Containers			MATRIX		ANALYSIS REQUESTED															EAL Sample No.	
No of Containers			Water-Drinking/Discharge/Ground (circle) Soil / Solid Cil / Sludge		<i>Calcium</i> <i>CI: SVT, AC, ALG, MNC</i> <i>Methylene</i> <i>Dissolved Metals - DW / SW846</i> <i>(circle & list metals below)</i> <i>Total Metals-DW / VPDES / SW846</i> <i>(circle & list metals below)</i> <i>TEPH 8015mod (Gasoline)</i> <i>TPH 418 1/Oil & Grease 413 1 (circle)</i> <i>TRPH 418 1/Oil & Grease 413 1 (circle)</i> <i>BTEX 8020/602 (circle)/MTBE (circle)</i> <i>PCB Screen</i> <i>Herbicides 8150/515 (circle)</i> <i>Pest/PCBs 8080/608/508 (circle)</i> <i>Pesticides 8080/608 (circle)</i> <i>BNA 8270/625 (circle)</i> <i>VOA 8260/624/524.2 (circle)</i> <i>(circle)</i> <i>TCLP VOA/BNA/Pest/Herb/Metals</i>															EAL	
																				01A-H	
																				02A-H	
																				03A-H	
																				04A-I	
																				05A-I	
																				06A-I	
																				07A-H	
																				08A-J	
																				09A	
10A-D																					
Location 2, D6			Container Size 40', 125'																		

No of Containers			MATRIX		ANALYSIS REQUESTED															EAL Sample No.	
No of Containers			Water-Drinking/Discharge/Ground (circle) Soil / Solid Cil / Sludge		<i>Calcium</i> <i>CI: SVT, AC, AL</i>																

Instructions: Write all words from the prescriptive in them!

Have note that I would like Monogram 2+ analyzed for culture if possible. I would request to analyze that as Dave Monogram holds an

Requesting Party (Signature)	Date/Time	Received by (Signature)	Date/Time	Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
W. A. A. A.	6/4/97	X 3033	6/4/97	Red F.	6/5/97	W. A. A. A.	6/5/97

Evergreen Analytical Sample Receipt/Check-in Record

Date & Time Rec'd: 6/5/96 0930 Shipped Via: FedX 9931759795
(Airbill # if applicable)

Client: Parsons ES

Client Project ID(s): Madison ANGB

EAL Project #(s): 96-1829 EAL Cooler(s): Y 0

Cooler# CLT

Ice packs Y N Y N Y N Y N Y N

Temperature °C 8-13

Y N N/A

1. Custody seal(s) present:
Seals on cooler intact
Seals on bottle intact

2. Chain of Custody present:

3. Samples Radioactive: (Comment on COC if >0.5mrb)

4. Containers broken or leaking: (Comment on COC if Y)

5. Containers labeled:

6. COC agrees w/ bottles received: (Comment on COC if N)

7. COC agrees w/ labels: (Comment on COC if N)

8. Headspace in vials-waters only: (Comment on COC if N)

9. VOA samples preserved:

10. pH measured on metals, cyanide or phenolics*: X

List discrepancies

*Non-EAL provided containers only, water samples only.

11. Metal samples present: X

Total _____, Dissolved _____, TCLP _____

D or PD to be filtered: _____

T,TR,D,PD to be Preserved: _____

12. Short holding times: X

Specify parameters NO₂/NO₃

13. Multi-phase sample(s) present: X

14. COC signed w/ date/time: X

Comments: _____

(Additional comments on back)

Custodian Signature/Date: WJM 6/5/96

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report
Method Blank Report

Method Blank Number : MB060596-W Client Project Number : Madison ANGB
Date Prepared : 6/5/96 Lab Work Order : 96-1829
Dilution Factor : 1.0 Matrix : WATER
Lab File Number : TVBX0605003

Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/5/96	U	0.1	mg/L
Benzene	71-43-2	6/5/96	U	0.4	ug/L
Toluene	108-88-3	6/5/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/5/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/5/96	U	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/5/96	U	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/5/96	U	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/5/96	U	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/5/96	U	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/5/96	U	0.5	ug/L
FID Surrogate Recovery: 100% 70%-130% (Limits)					
PID Surrogate Recovery: 105% 70%-128% (Limits)					

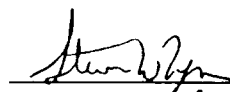
Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

Comments:

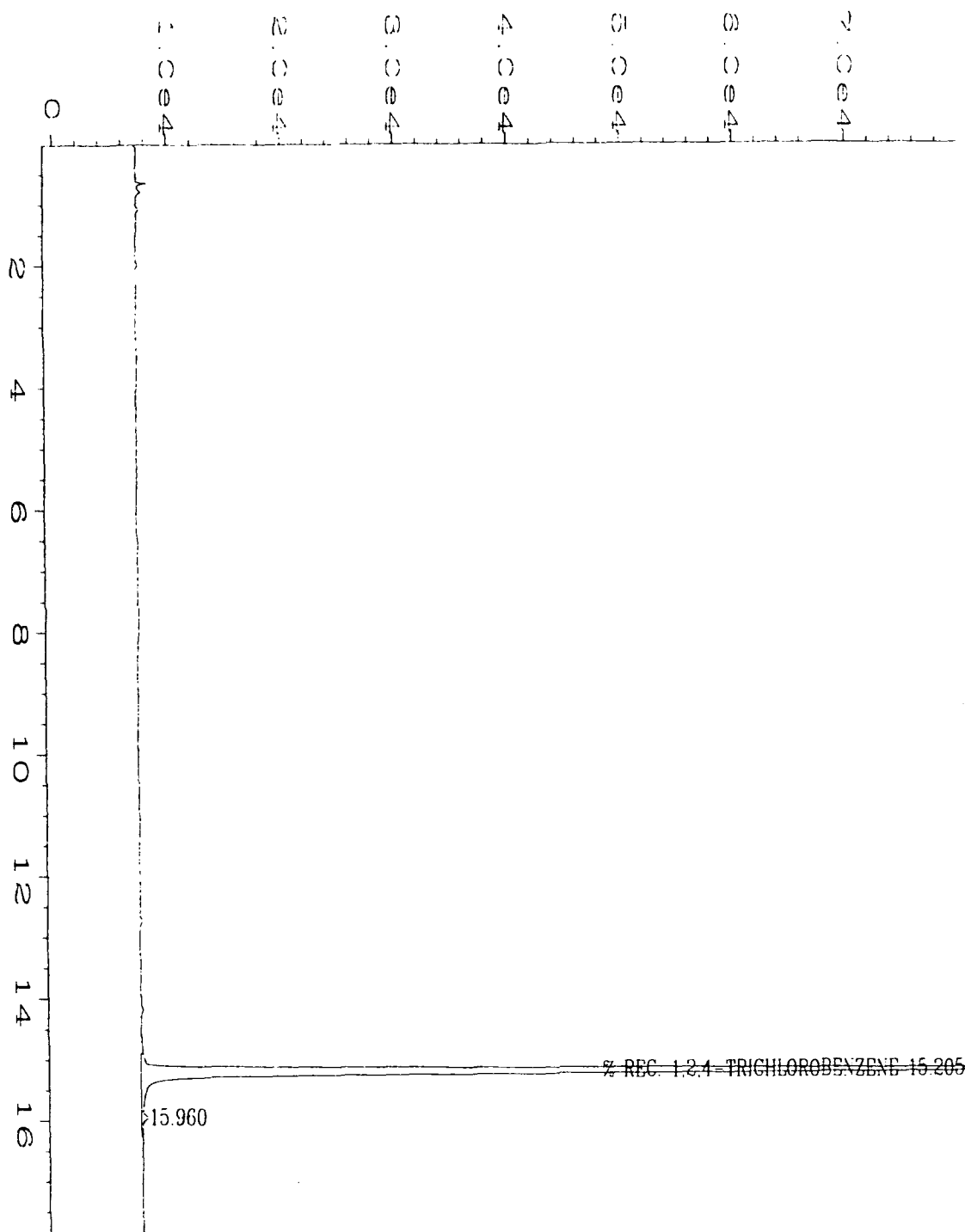
QUALIFIERS and DEFINITIONS:

E = Extrapolated value. Value exceeds calibration range.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.
RL = Reporting Limit.
NA = Not Available/Not Applicable.
PID = Photoionization detector.
FID = Flame ionization detector.
TVH = Total Volatile Hydrocarbons.

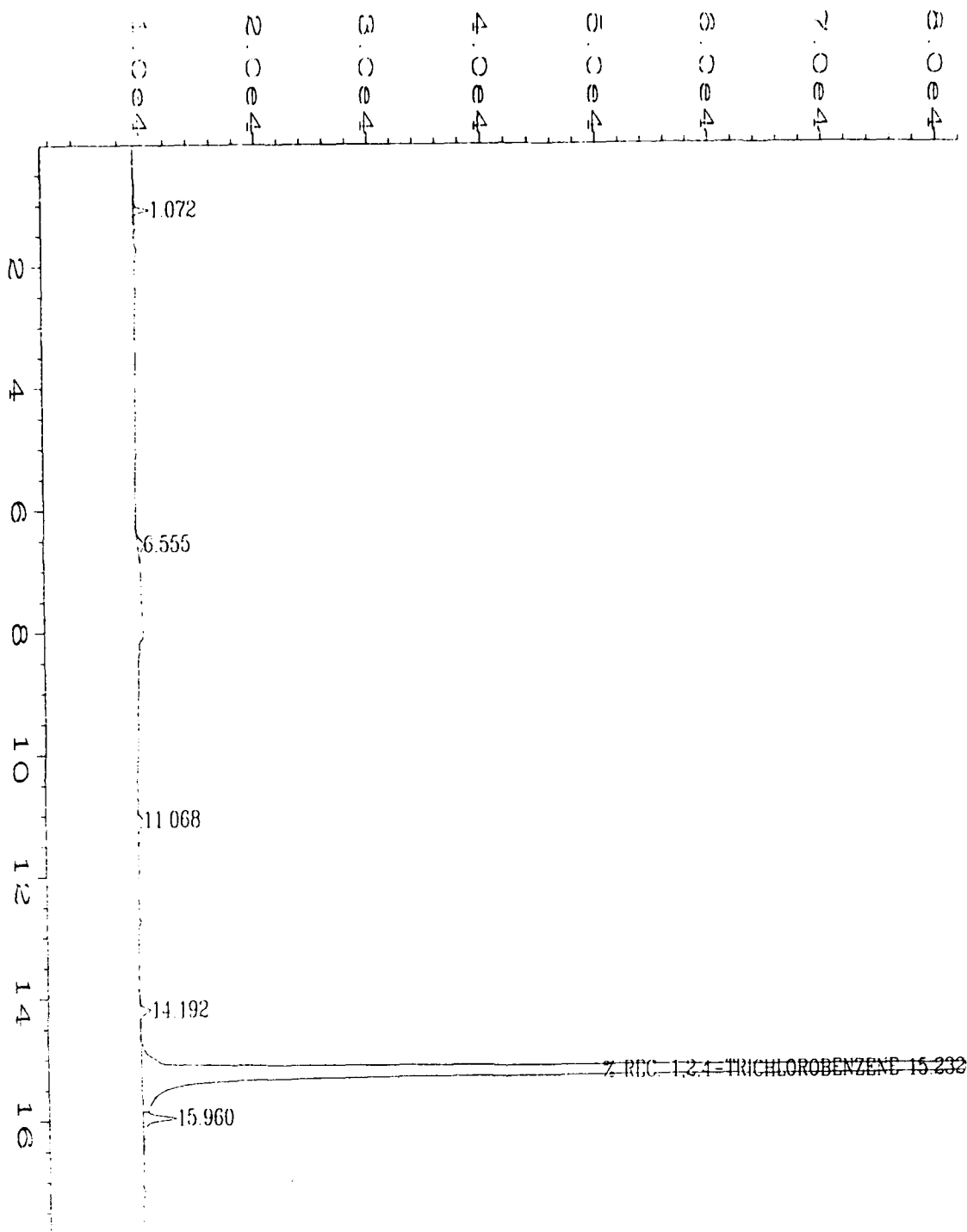

Analyst


Approved

TVBP1829.XLS; 6/6/96, 1



ata File Name	: C:\HPCHEM\2\DATA\TVBX0605\003F0101.D	Page Number	: 1
perator	: KAPRIE S. HOLLMAN	Vial Number	: 3
nstrument	: TVHBTEX2	Injection Number	: 1
ample Name	: MB060596-W;1	Sequence Line	: 1
un Time Bar Code:		Instrument Method	: TVW0409B.MTH
cquired on	: 05 Jun 96 01:42 PM	Analysis Method	: TVW0409B.MTH
eport Created on:	: 05 Jun 96 03:35 PM	Sample Amount	: 0
ast Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
ultiplier	: 1		
ample Info	: WATER BLANK		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\003R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 3
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: MB060596-W;1	Sequence Line	: 1
Time Bar Code:		Instrument Method	: TVW0409B.MTH
Acquired on	: 05 Jun 96 01:42 PM	Analysis Method	: BXW0601.MTH
Report Created on	: 05 Jun 96 02:00 PM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: WATER BLANK		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number : CPT-1D Client Project Number : Madison ANGB
Lab Sample Number : 96-1829-01 Lab Work Order : 96-1829
Date Sampled : 6/4/96 Matrix : WATER
Date Received : 6/5/96 Lab File Number(s) : TVBX0605005
Date Prepared : 6/5/96 Method Blank : MB060596-W
FID Dilution Factor : 1.0
PID Dilution Factor : 1.0

Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/5/96	U	0.1	mg/L
Benzene	71-43-2	6/5/96	U	0.4	ug/L
Toluene	108-88-3	6/5/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/5/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/5/96	U	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/5/96	U	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/5/96	U	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/5/96	U	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/5/96	U	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/5/96	U	0.5	ug/L
FID Surrogate Recovery:		93%		70%-130%	(Lim.
PID Surrogate Recovery:		102%		70%-128%	(Limits)

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

Comments:

QUALIFIERS and DEFINITIONS:

E = Extrapolated value. Value exceeds calibration range.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.
RL = Reporting Limit.
NA = Not Available/Not Applicable.
PID = Photoionization detector.
FID = Flame ionization detector.
TVH = Total Volatile Hydrocarbons.

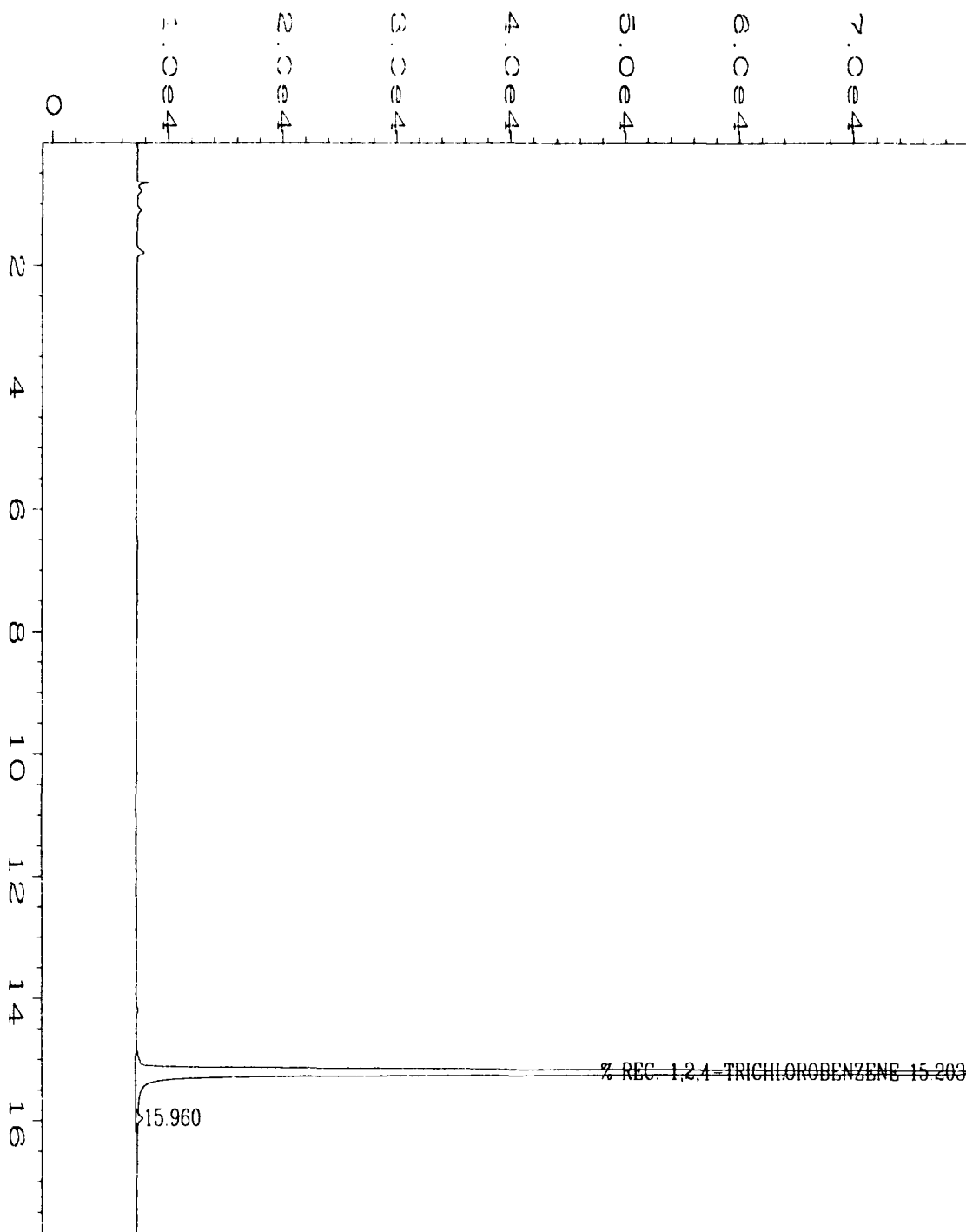
K. Hollman

Analyst

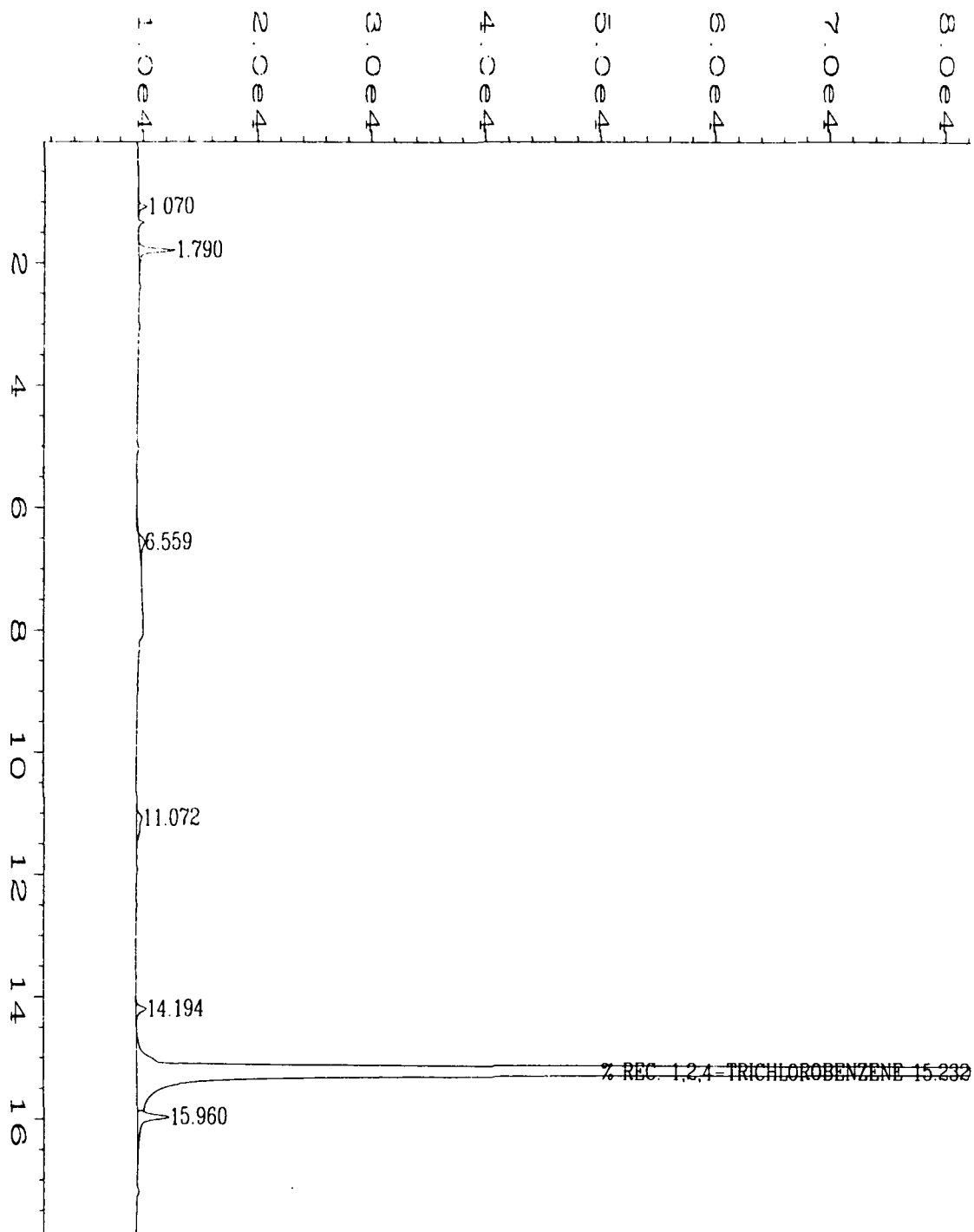
Steve Wynn

Approved

TVBP1829.XLS 6/6/96: 2



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\005F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 5
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-01A;1	Sequence Line	: 1
Print Time Bar Code:		Instrument Method	: TVW0409B.MTH
Acquired on	: 05 Jun 96 02:50 PM	Analysis Method	: TVW0409B.MTH
Report Created on	: 05 Jun 96 03:35 PM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-1D; WATER		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\005R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 5
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-01A;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: TVW0409B
Acquired on	: 05 Jun 96 02:50 PM	Analysis Method	: BXW0601.MTH
Report Created on:	: 05 Jun 96 03:08 PM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-1D; WATER		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number : CPT-5D Client Project Number : Madison ANGB
Lab Sample Number : 96-1829-02 Lab Work Order : 96-1829
Date Sampled : 6/4/96 Matrix : WATER
Date Received : 6/5/96 Lab File Number(s) : TVBX0605006
Date Prepared : 6/5/96 Method Blank : MB060596-W
FID Dilution Factor : 1.0
PID Dilution Factor : 1.0

Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/5/96	0.6	0.1	mg/L
Benzene	71-43-2	6/5/96	85	0.4	ug/L
Toluene	108-88-3	6/5/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/5/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/5/96	U	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/5/96	15	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/5/96	U	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/5/96	1.5	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/5/96	0.4	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/5/96	U	0.5	ug/L
PID Surrogate Recovery:		94%		70%-130%	(Limits)
FID Surrogate Recovery:		99%		70%-128%	(Limits)

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

Comments:

QUALIFIERS and DEFINITIONS:

E = Extrapolated value. Value exceeds calibration range.

U = Compound analyzed for, but not detected.

B = Compound also found in the blank.

J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.

RL = Reporting Limit.

NA = Not Available/Not Applicable.

PID = Photoionization detector.

FID = Flame ionization detector.

TVH = Total Volatile Hydrocarbons.

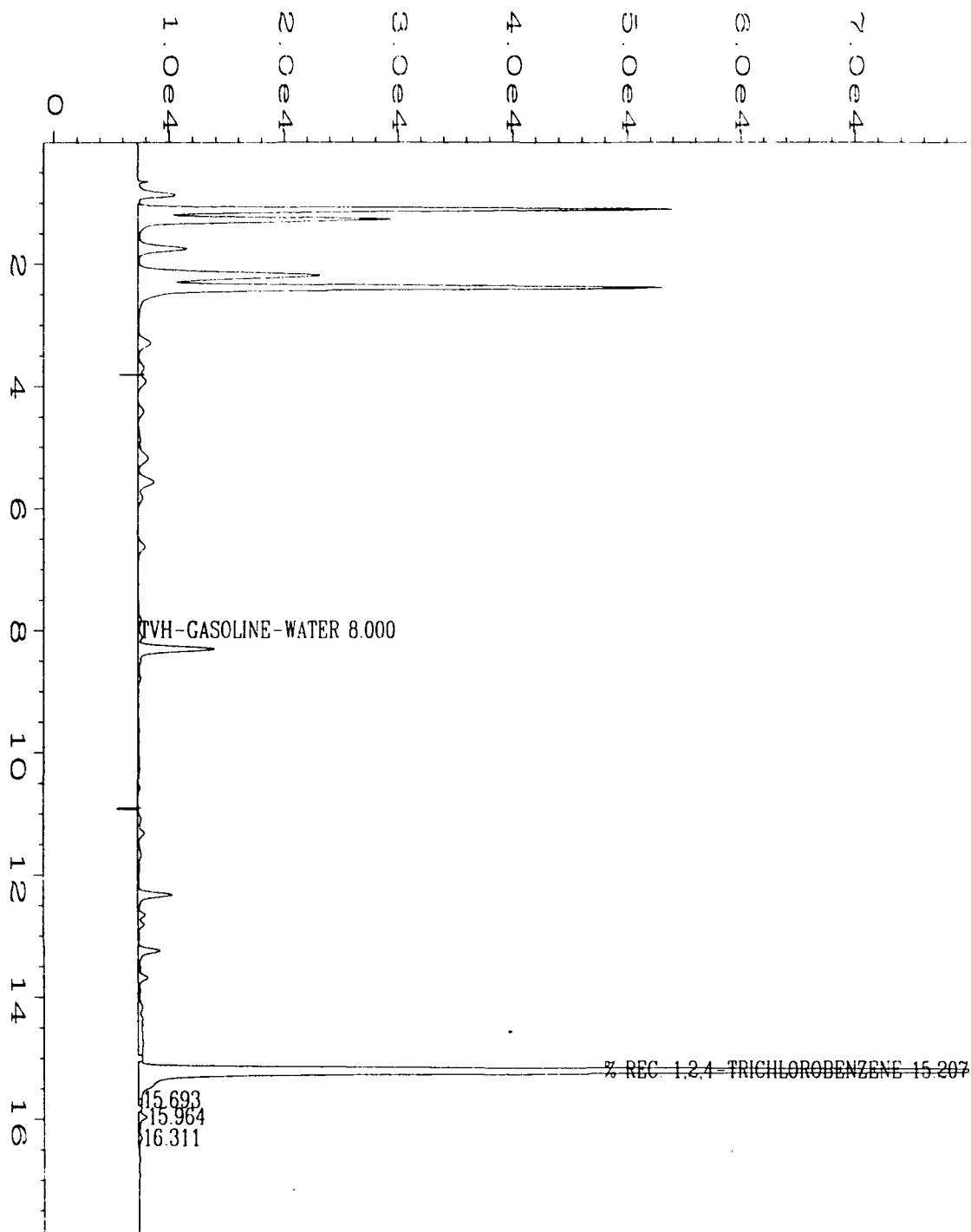
K. Holliman

Analyst

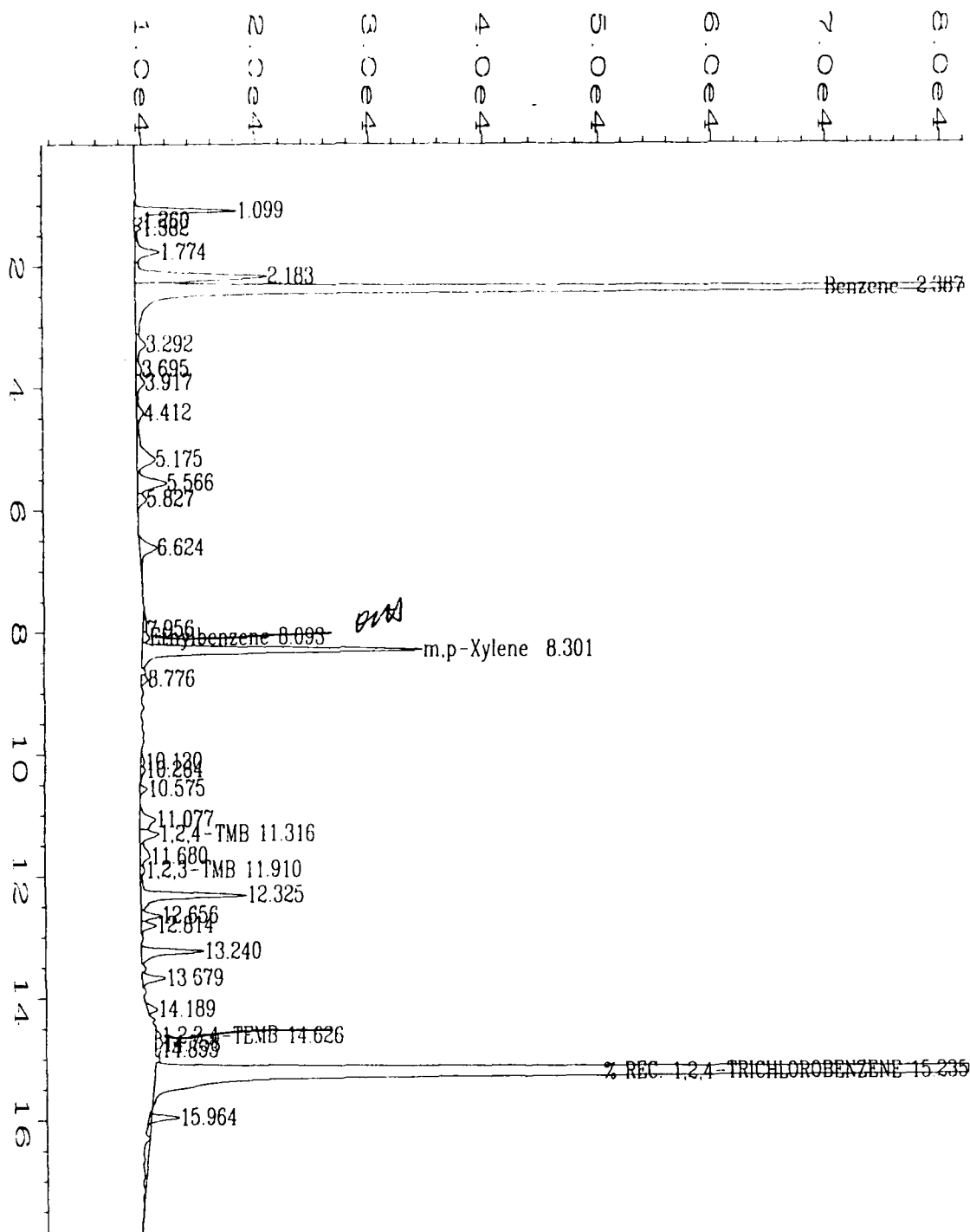
[Signature]

Approved

TVBP1829.XLS; 6/6/96; 3



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\006F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 6
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-02A;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TVW0409F
Acquired on	: 05 Jun 96 03:40 PM	Analysis Method	: TVW0409B.mf
Report Created on:	05 Jun 96 03:59 PM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-5D; WATER		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\006R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 6
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-02A;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TVW0409B.MTH
Started on	: 05 Jun 96 03:40 PM	Analysis Method	: BXW0601.MTH
Report Created on:	05 Jun 96 03:59 PM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-5D; WATER		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number : CPT-5S Client Project Number : Madison ANGB
Lab Sample Number : 96-1829-03 Lab Work Order : 96-1829
Date Sampled : 6/4/96 Matrix : WATER
Date Received : 6/5/96 Lab File Number(s) : TVBX0605007
Date Prepared : 6/5/96 Method Blank : MB060596-W
FID Dilution Factor : 1.0
PID Dilution Factor : 1.0

Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/5/96	U	0.1	mg/L
Benzene	71-43-2	6/5/96	U	0.4	ug/L
Toluene	108-88-3	6/5/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/5/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/5/96	U	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/5/96	U	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/5/96	U	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/5/96	U	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/5/96	U	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/5/96	U	0.5	ug/L
FID Surrogate Recovery:		94%		70%-130%	(Lim
PID Surrogate Recovery:		103%		70%-128%	(Limits)

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

Comments:

QUALIFIERS and DEFINITIONS:

E = Extrapolated value. Value exceeds calibration range.

U = Compound analyzed for, but not detected.

B = Compound also found in the blank.

J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.

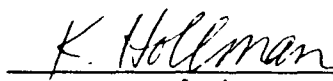
RL = Reporting Limit.

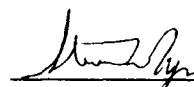
NA = Not Available/Not Applicable.

PID = Photoionization detector.

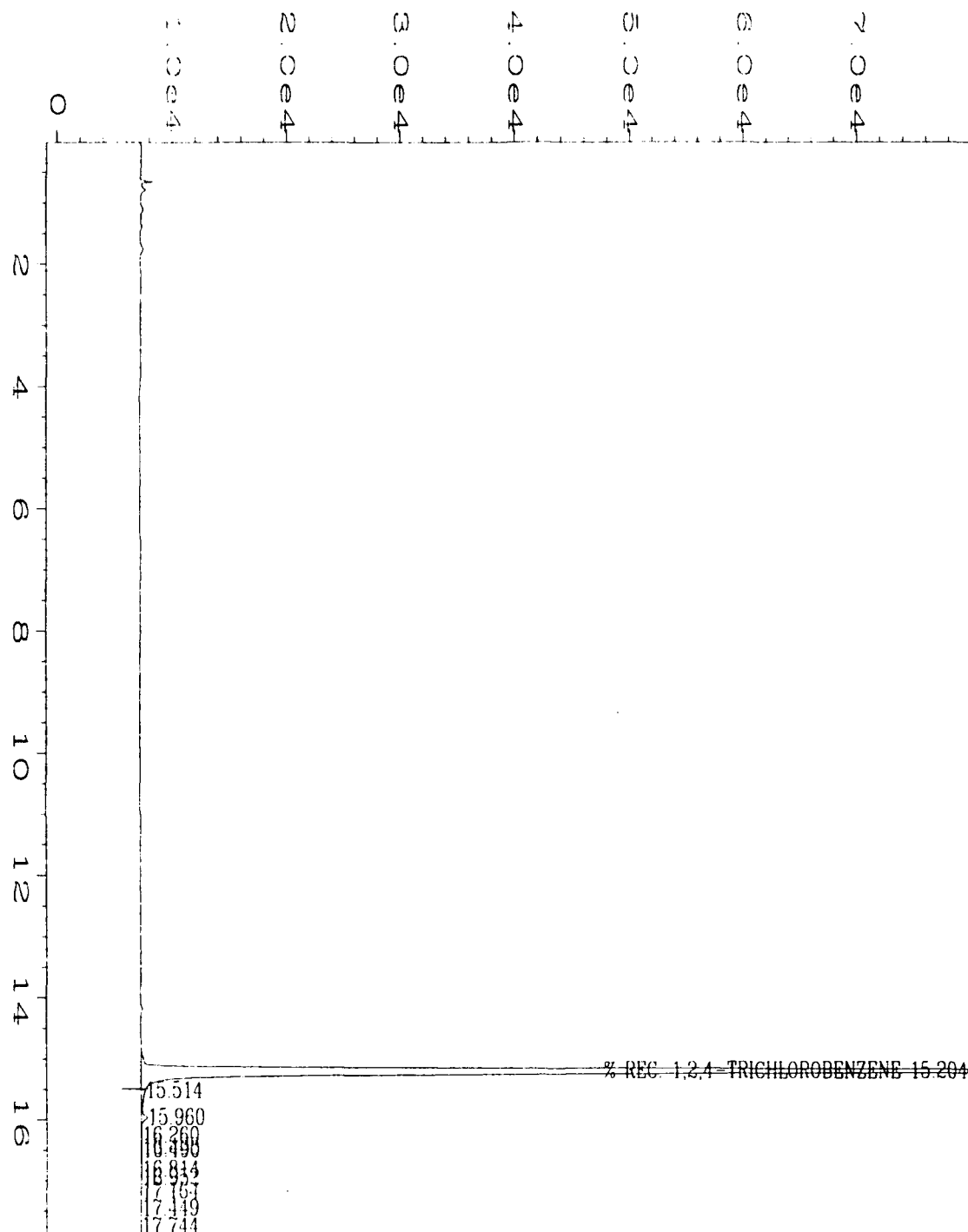
FID = Flame ionization detector.

TVH = Total Volatile Hydrocarbons.

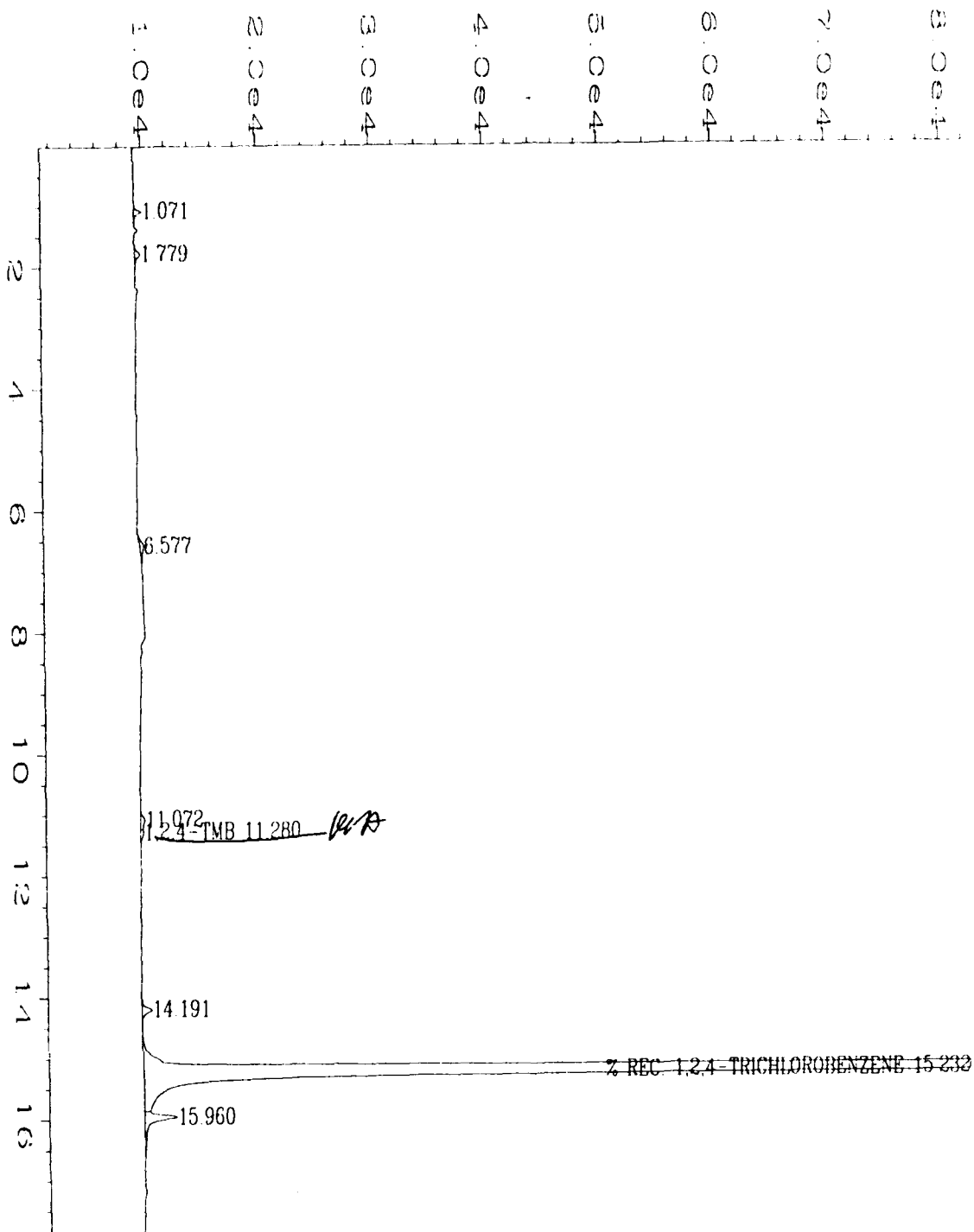

Analyst


Approved

TVBP1829.XLS; 6/6/96; 4



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\007F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 7
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-03A;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TVW0409B.MTH
Acquired on	: 05 Jun 96 04:14 PM	Analysis Method	: TVW0409B.MTH
Report Created on:	05 Jun 96 04:32 PM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-5S; WATER		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\007R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 7
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-03A;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: TVW0409I
Acquired on	: 05 Jun 96 04:14 PM	Analysis Method	: BXW0601.M.H
Report Created on:	: 05 Jun 96 04:32 PM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-5S; WATER		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number : CPT-4D Client Project Number : Madison ANGB
Lab Sample Number : 96-1829-04 Lab Work Order : 96-1829
Date Sampled : 6/4/96 Matrix : WATER
Date Received : 6/5/96 Lab File Number(s) : TVBX0605008,23
Date Prepared : 6/5/96 Method Blank : MB060596-W
FID Dilution Factor : 1.0
PID Dilution Factor : 1.0, 10

Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/5/96	1.0	0.1	mg/L
Benzene	71-43-2	6/6/96	310	4.0	ug/L
Toluene	108-88-3	6/5/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/5/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/5/96	U	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/5/96	31	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/5/96	3.3	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/5/96	30	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/5/96	9.1	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/5/96	4.4	0.5	ug/L
PID Surrogate Recovery:		98%		70%-130%	(Limits)
FID Surrogate Recovery:		105%, 106%		70%-128%	(Limits)

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

Comments:

QUALIFIERS and DEFINITIONS:

E = Extrapolated value. Value exceeds calibration range.

U = Compound analyzed for, but not detected.

B = Compound also found in the blank.

J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.

RL = Reporting Limit.

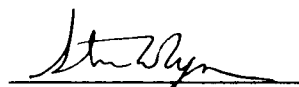
NA = Not Available/Not Applicable.

PID = Photoionization detector.

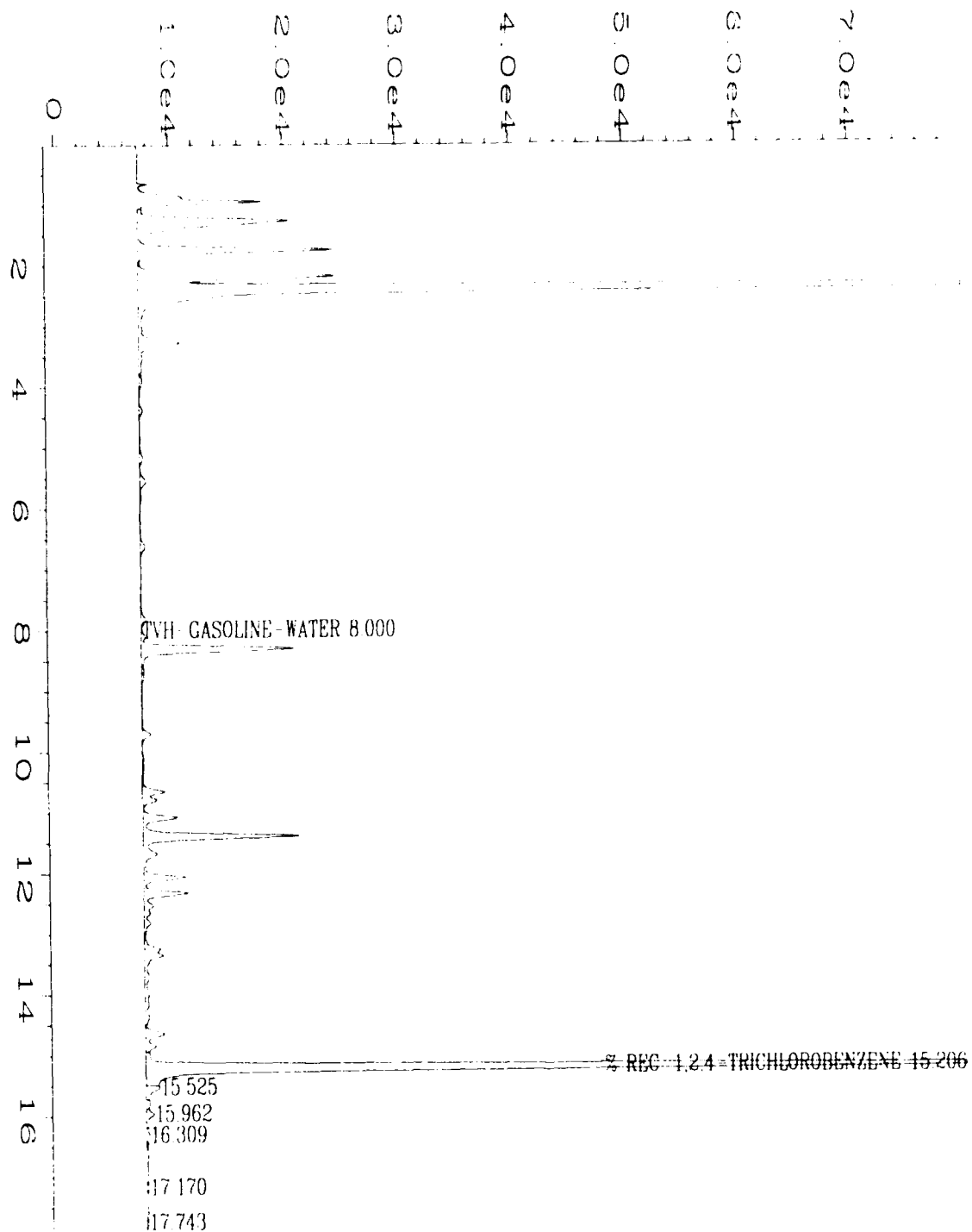
FID = Flame ionization detector.

TVH = Total Volatile Hydrocarbons.

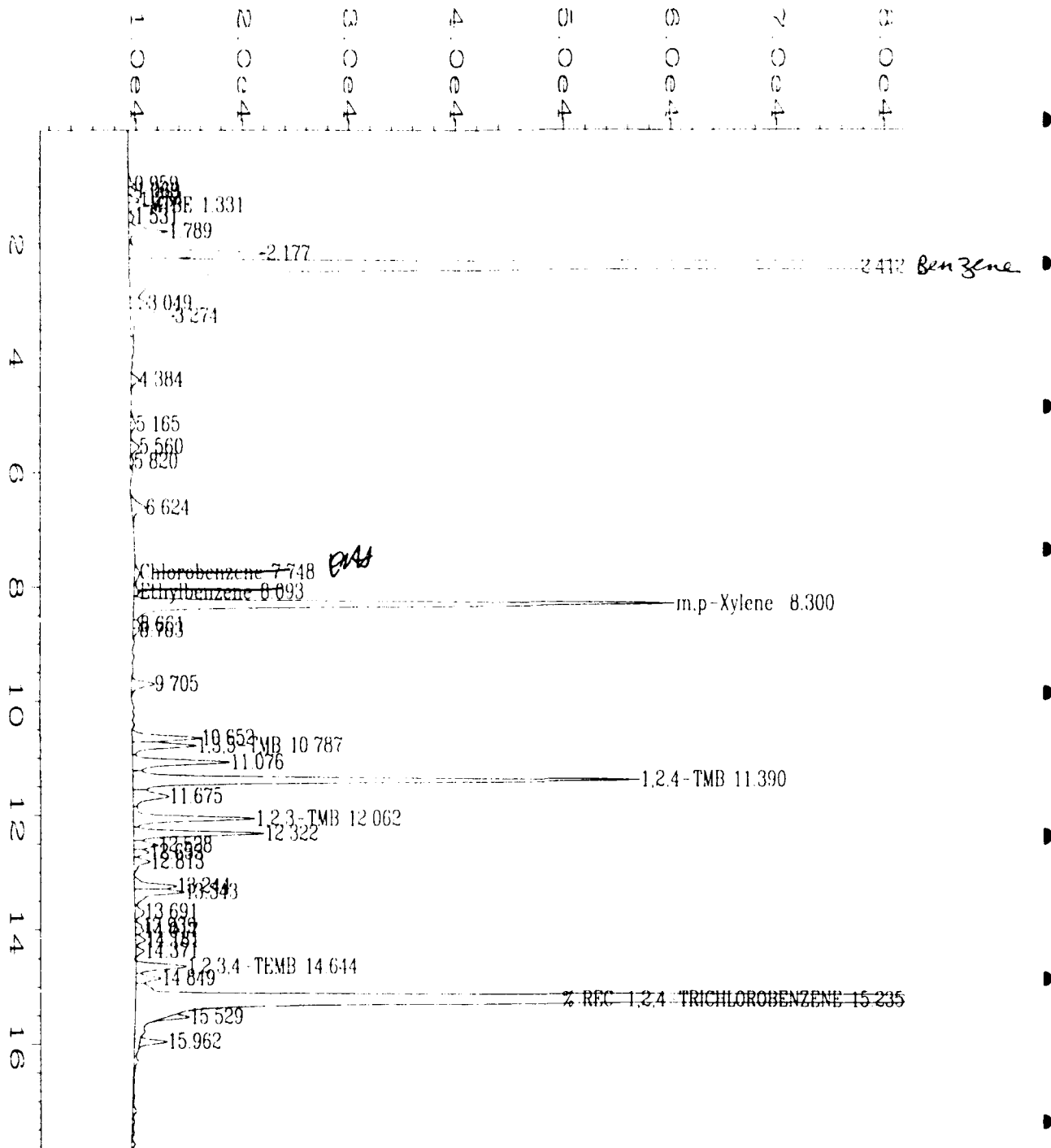

Analyst


Approved

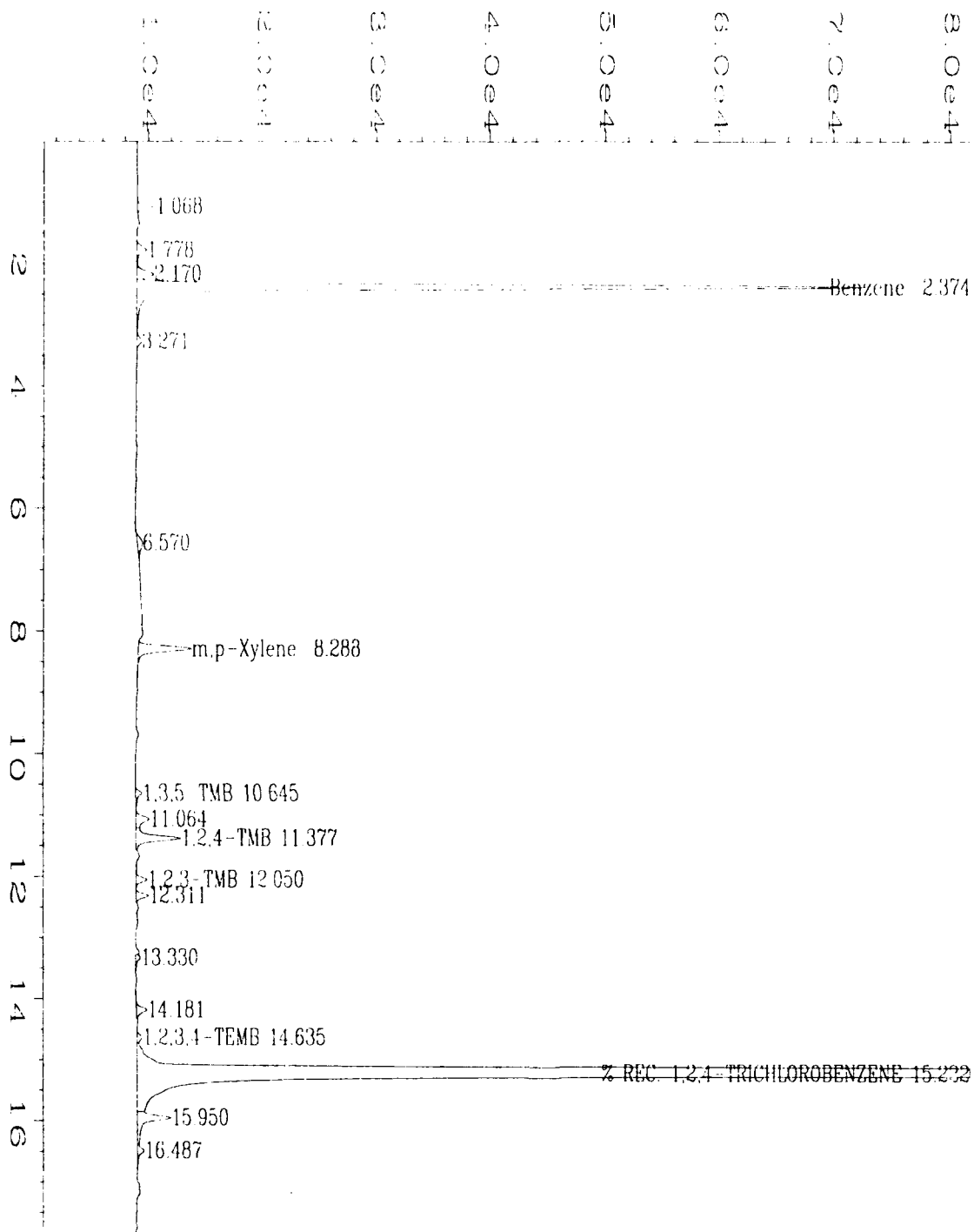
TVBP1829 XLS, 6/6/96, 5



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\008F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 8
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-04A;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TVW0409E
Acquired on	: 05 Jun 96 04:48 PM	Analysis Method	: TVW0409B.mi
Report Created on:	05 Jun 96 05:06 PM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-4D; WATER		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\008R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 8
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-04A;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: TVW0409B.MTH
Acquired on	: 05 Jun 96 04:48 PM	Analysis Method	: BXW0601.MTH
Report Created on	: 05 Jun 96 05:06 PM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-4D; WATER		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\023R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 23
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-04B;10	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: TVW0409B
Acquired on	: 06 Jun 96 01:54 AM	Analysis Method	: BXW0601.M1H
Report Created on	: 06 Jun 96 02:12 AM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 10		
Sample Info	: CPT-4D; WATER		

EVERGREEN ANALYTICAL, INC.
4036 Yruegfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number : MW-13 Client Project Number : Madison ANGB
Lab Sample Number : 96-1829-05 Lab Work Order : 96-1829
Date Sampled : 6/4/96 Matrix : WATER
Date Received : 6/5/96 Lab File Number(s) : TVBX0605009
Date Prepared : 6/5/96 Method Blank : MB060596-W
FID Dilution Factor : 1.0
PID Dilution Factor : 1.0

Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/5/96	U	0.1	mg/L
Benzene	71-43-2	6/5/96	U	0.4	ug/L
Toluene	108-88-3	6/5/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/5/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/5/96	U	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/5/96	U	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/5/96	U	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/5/96	U	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/5/96	U	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/5/96	U	0.5	ug/L
PID Surrogate Recovery:		98%		70%-130%	(Limits)
PID Surrogate Recovery:		104%		70%-128%	(Limits)

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

Comments:

QUALIFIERS and DEFINITIONS:

E = Extrapolated value. Value exceeds calibration range.

U = Compound analyzed for, but not detected.

B = Compound also found in the blank.

J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.

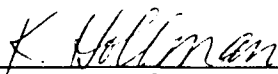
RL = Reporting Limit.

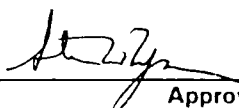
NA = Not Available/Not Applicable.

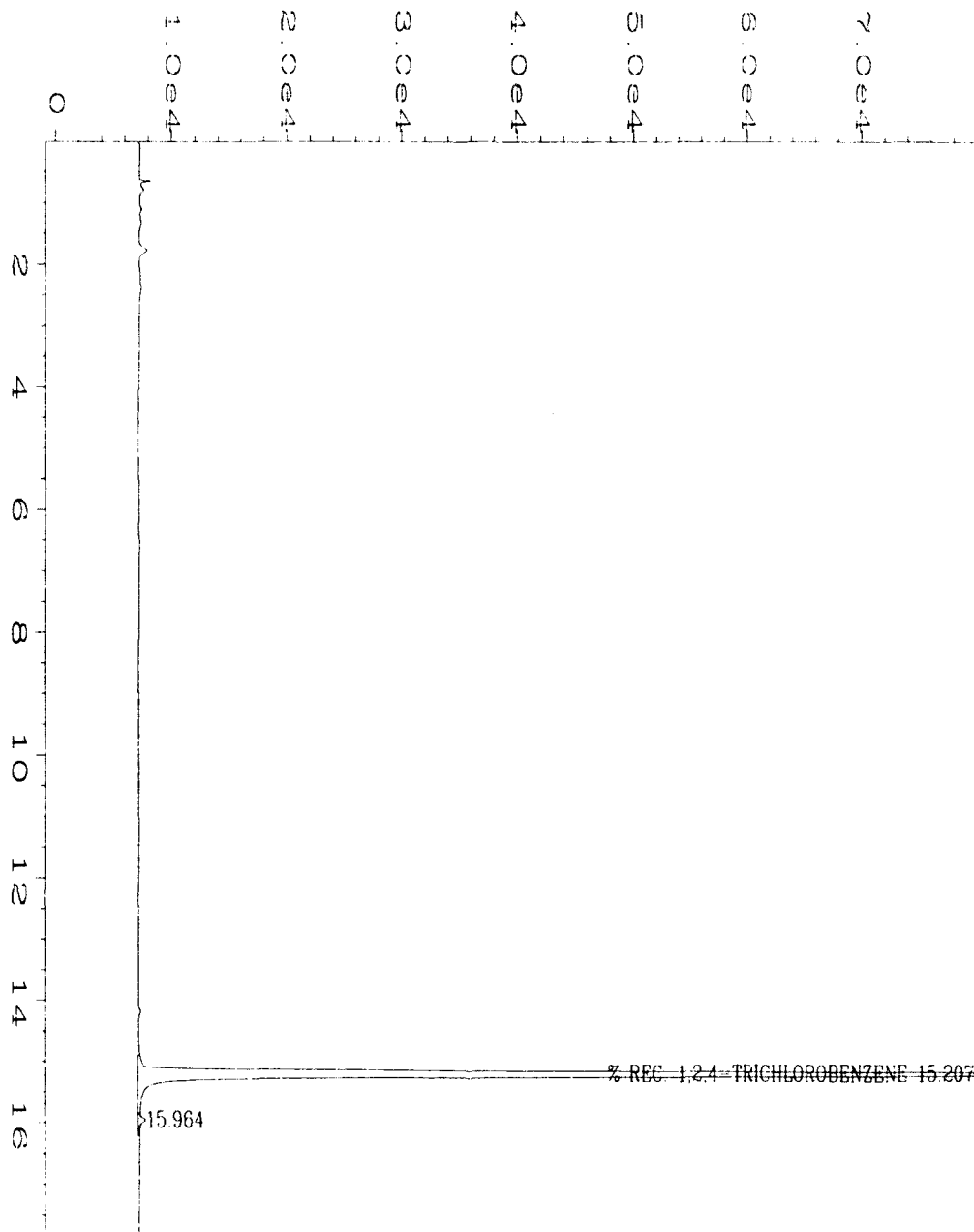
PID = Photoionization detector.

FID = Flame ionization detector.

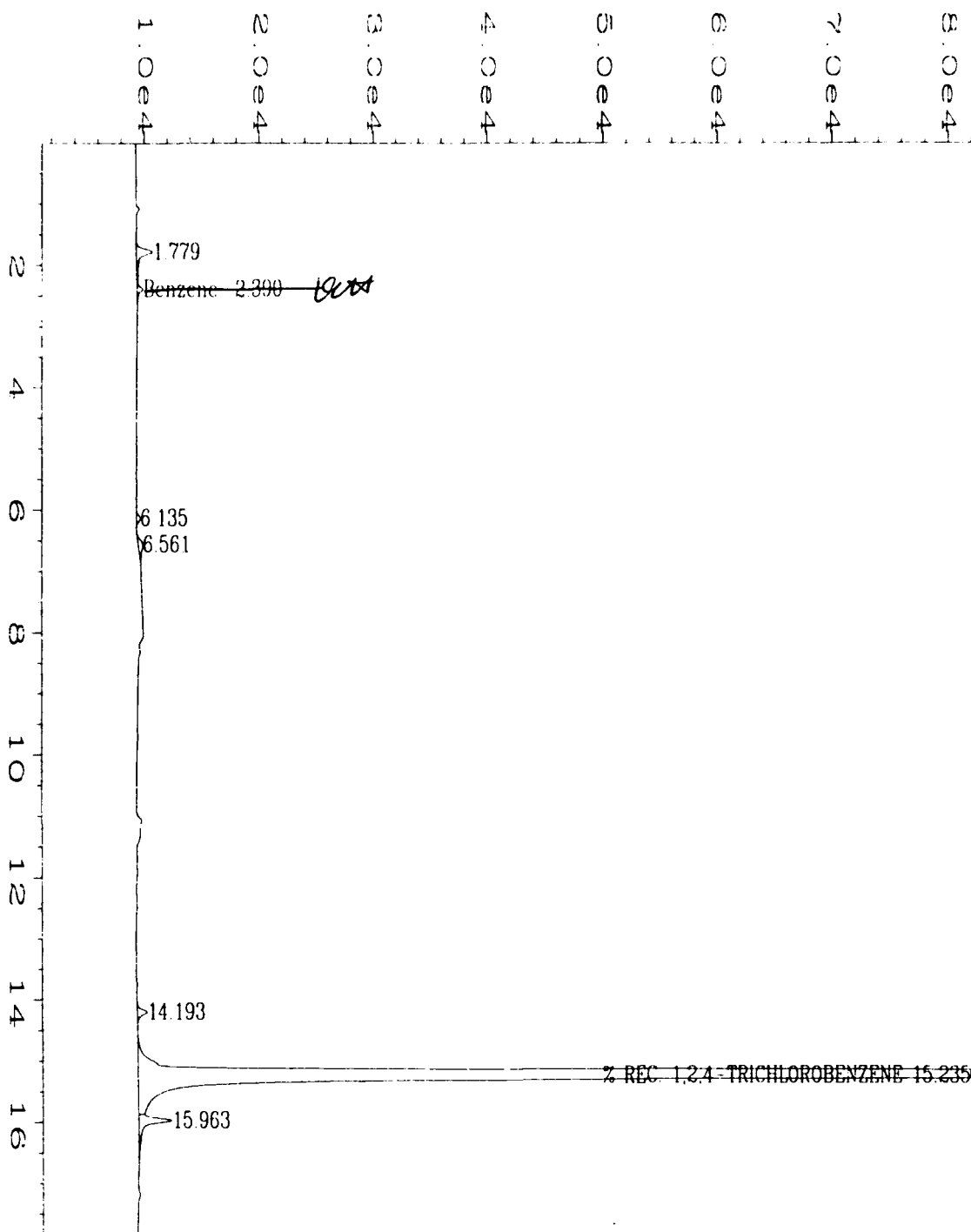
TVH = Total Volatile Hydrocarbons.


Analyst


Approved



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\009F0101.D	
Operator	: KAPRIE S. HOLLMAN	Page Number : 1
Instrument	: TVHBTEX2	Vial Number : 9
Sample Name	: 96-1829-05A;1	Injection Number : 1
Run Time Bar Code:		Sequence Line : 1
Acquired on	: 05 Jun 96 05:22 PM	Instrument Method: TVW0409B
Report Created on:	: 05 Jun 96 05:40 PM	Analysis Method : TVW0409B.MT
Last Recalib on	: 09 APR 96 10:42 AM	Sample Amount : 0
Multiplier	: 1	ISTD Amount :
Sample Info	: MW-13; WATER	



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\009R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 9
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-05A;1	Sequence Line	: 1
Print Time Bar Code:		Instrument Method:	TVW0409E.MTH
Printed on	: 05 Jun 96 05:22 PM	Analysis Method	: BXW0601.MTH
Report Created on:	05 Jun 96 05:40 PM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-13; WATER		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number	: MW-12	Client Project Number	: Madison ANGB
Lab Sample Number	: 96-1829-06	Lab Work Order	: 96-1829
Date Sampled	: 6/4/96	Matrix	: WATER
Date Received	: 6/5/96	Lab File Number(s)	: TVBX0605010
Date Prepared	: 6/5/96	Method Blank	: MB060596-W
FID Dilution Factor	: 1.0		
PID Dilution Factor	: 1.0		

Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/5/96	U	0.1	mg/L
Benzene	71-43-2	6/5/96	U	0.4	ug/L
Toluene	108-88-3	6/5/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/5/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/5/96	U	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/5/96	U	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/5/96	U	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/5/96	U	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/5/96	U	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/5/96	U	0.5	ug/L
FID Surrogate Recovery:		98%		70%-130%	(Lim
PID Surrogate Recovery:		104%		70%-128%	(Limits)

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

Comments:

QUALIFIERS and DEFINITIONS:

E = Extrapolated value. Value exceeds calibration range.

U = Compound analyzed for, but not detected.

B = Compound also found in the blank.

J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.

RL = Reporting Limit.

NA = Not Available/Not Applicable.

PID = Photoionization detector.

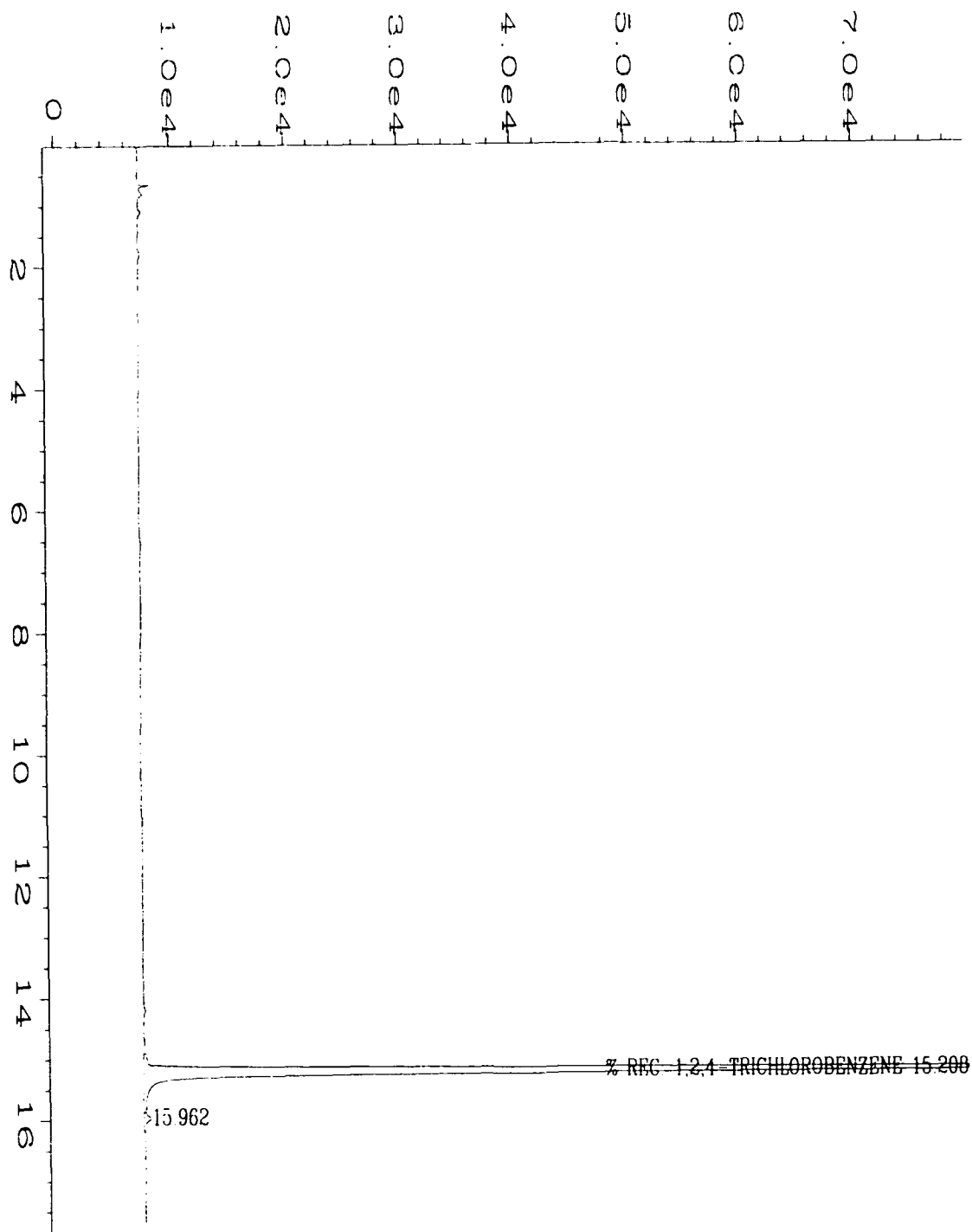
FID = Flame ionization detector.

TVH = Total Volatile Hydrocarbons.

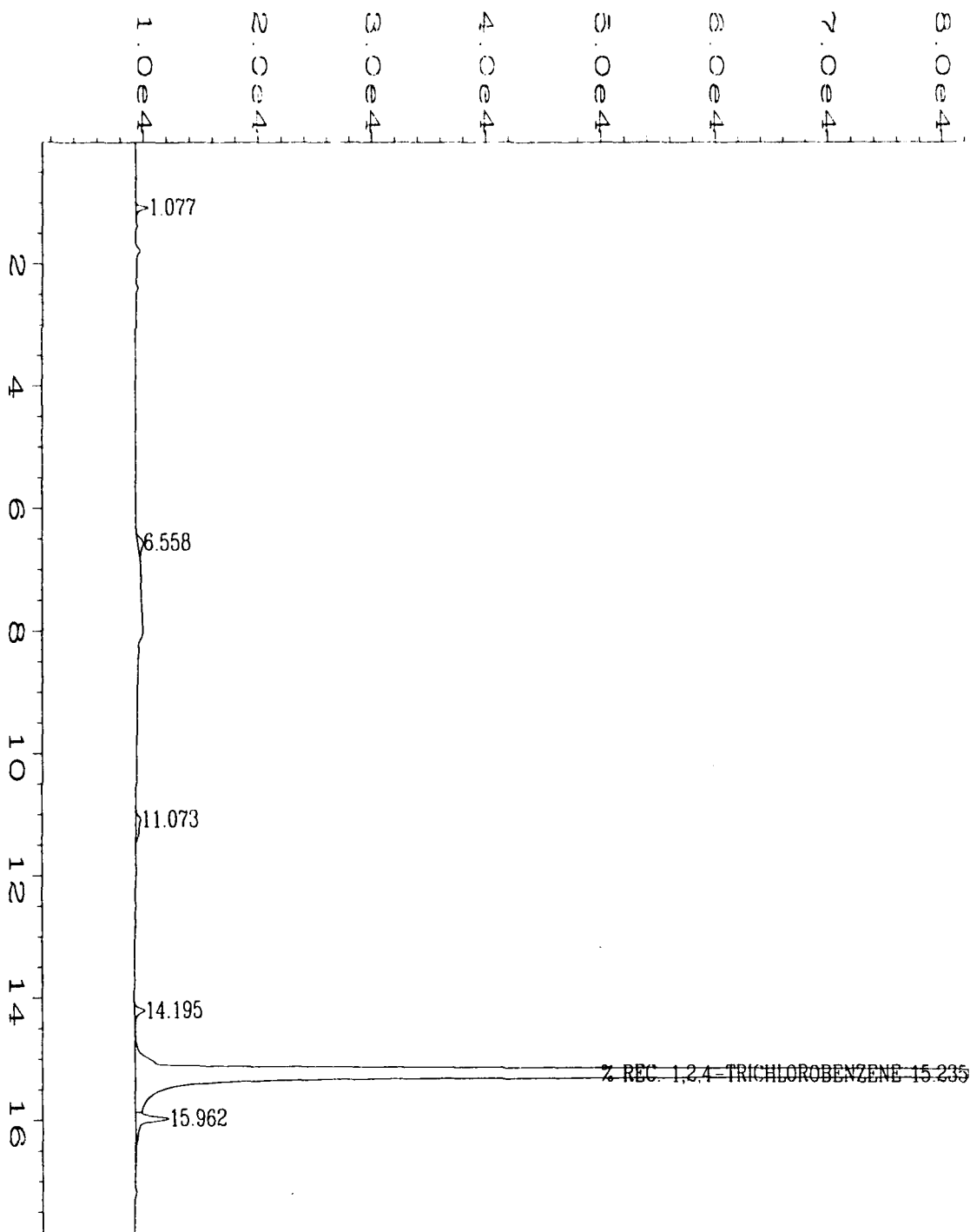

Analyst


Approved

TVBP1829.XLS: 6/6/96, 7



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\010F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 10
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-06A;1	Sequence Line	: 1
Time Bar Code:		Instrument Method:	TVW0409B.MTH
Acquired on	: 05 Jun 96 05:56 PM	Analysis Method	: TVW0409B.MTH
Report Created on:	05 Jun 96 06:14 PM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-12; WATER		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\010R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 10
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-06A;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TVW0409B
Acquired on	: 05 Jun 96 05:56 PM	Analysis Method	: BXW0601.MTH
Report Created on:	05 Jun 96 06:14 PM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-12; WATER		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number : CPT-20S Client Project Number : Madison ANGB
Lab Sample Number : 96-1829-07 Lab Work Order : 96-1829
Date Sampled : 6/4/96 Matrix : WATER
Date Received : 6/5/96 Lab File Number(s) : TVBX0605011
Date Prepared : 6/5/96 Method Blank : MB060596-W
FID Dilution Factor : 1.0
PID Dilution Factor : 1.0

Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/5/96	U	0.1	mg/L
Benzene	71-43-2	6/5/96	U	0.4	ug/L
Toluene	108-88-3	6/5/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/5/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/5/96	U	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/5/96	U	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/5/96	U	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/5/96	U	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/5/96	U	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/5/96	U	0.5	ug/L
FID Surrogate Recovery:		96%		70%-130%	(Limits)
PID Surrogate Recovery:		104%		70%-128%	(Limits)

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

Comments:

QUALIFIERS and DEFINITIONS:

E = Extrapolated value. Value exceeds calibration range.

U = Compound analyzed for, but not detected.

B = Compound also found in the blank.

J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.

RL = Reporting Limit.

NA = Not Available/Not Applicable.

PID = Photoionization detector.

FID = Flame ionization detector.

TVH = Total Volatile Hydrocarbons.

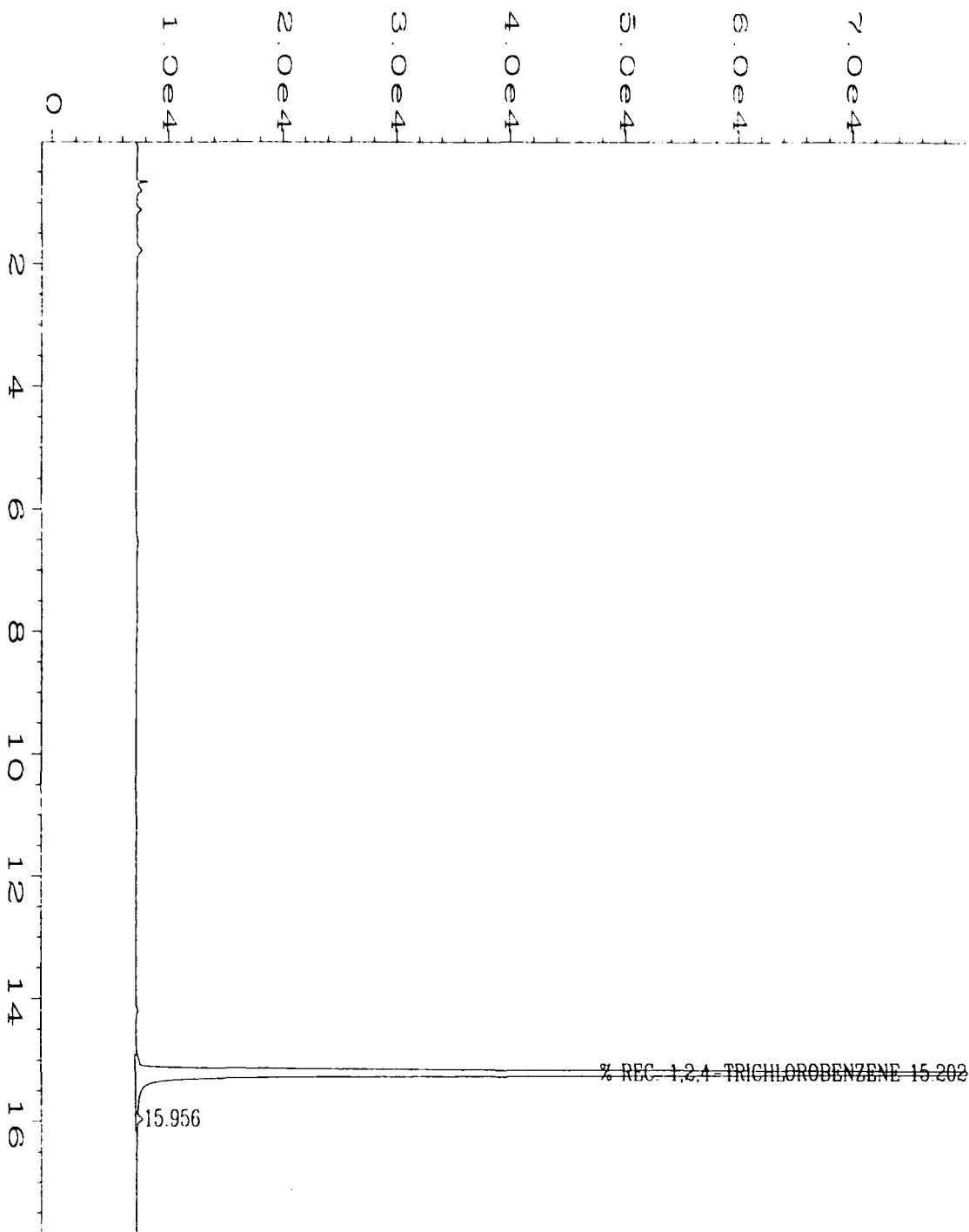
K. Holliman

Analyst

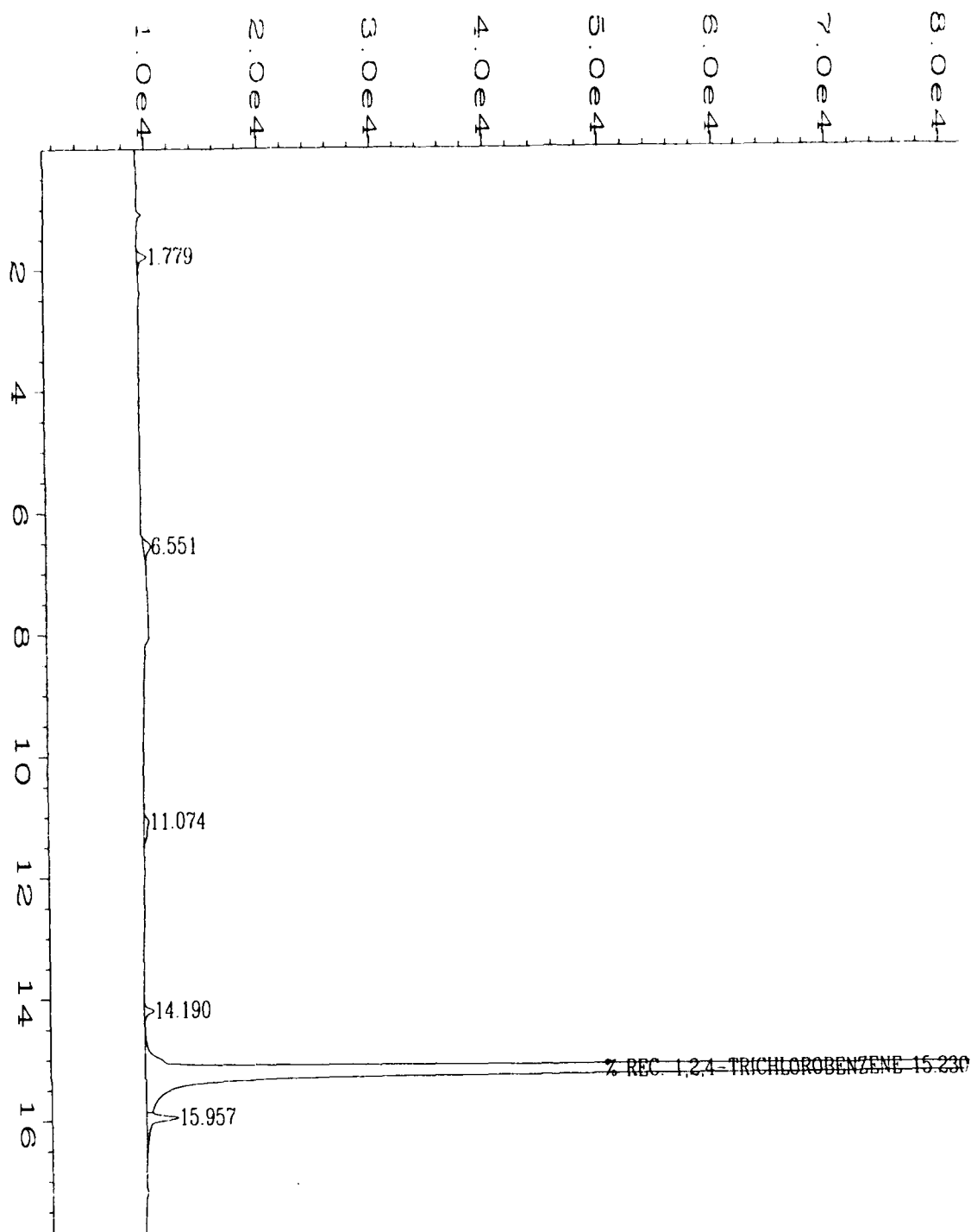
[Signature]

Approved

TVBP1829.XLS; 6/6/96; 8



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\011F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 11
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-07A;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: TVW0409B
Acquired on	: 05 Jun 96 06:30 PM	Analysis Method	: TVW0409B.MTH
Report Created on:	: 05 Jun 96 06:48 PM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-20S; WATER		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\011R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 11
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-07A;1	Sequence Line	: 1
Time Bar Code:		Instrument Method	: TVW0409B.MTH
Acquired on	: 05 Jun 96 06:30 PM	Analysis Method	: BXW0601.MTH
Report Created on	: 05 Jun 96 06:48 PM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-20S; WATER		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number : CPT-19S Client Project Number : Madison ANGB
Lab Sample Number : 96-1829-08 Lab Work Order : 96-1829
Date Sampled : 6/4/96 Matrix : WATER
Date Received : 6/5/96 Lab File Number(s) : TVBX0605012
Date Prepared : 6/5/96 Method Blank : MB060596-W
FID Dilution Factor : 1.0
PID Dilution Factor : 1.0

Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/5/96	U	0.1	mg/L
Benzene	71-43-2	6/5/96	U	0.4	ug/L
Toluene	108-88-3	6/5/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/5/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/5/96	U	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/5/96	U	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/5/96	U	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/5/96	U	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/5/96	U	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/5/96	U	0.5	ug/L
FID Surrogate Recovery:		94%		70%-130%	(Lim.
PID Surrogate Recovery:		103%		70%-128%	(Limits)

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

Comments:

QUALIFIERS and DEFINITIONS:

E = Extrapolated value. Value exceeds calibration range.

U = Compound analyzed for, but not detected.

B = Compound also found in the blank.

J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.

RL = Reporting Limit.

NA = Not Available/Not Applicable.

PID = Photoionization detector.

FID = Flame ionization detector.

TVH = Total Volatile Hydrocarbons.

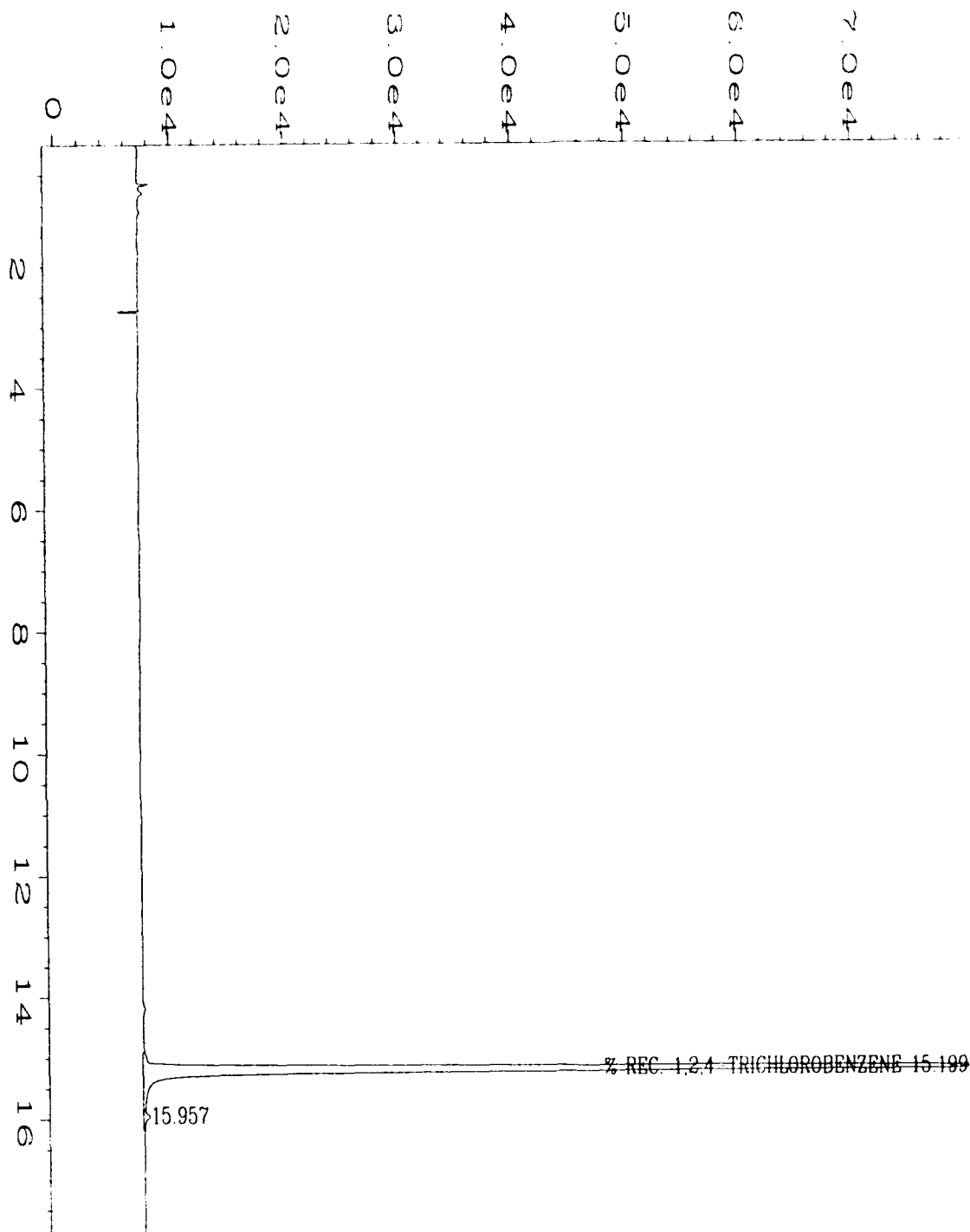
K. Hollman

Analyst

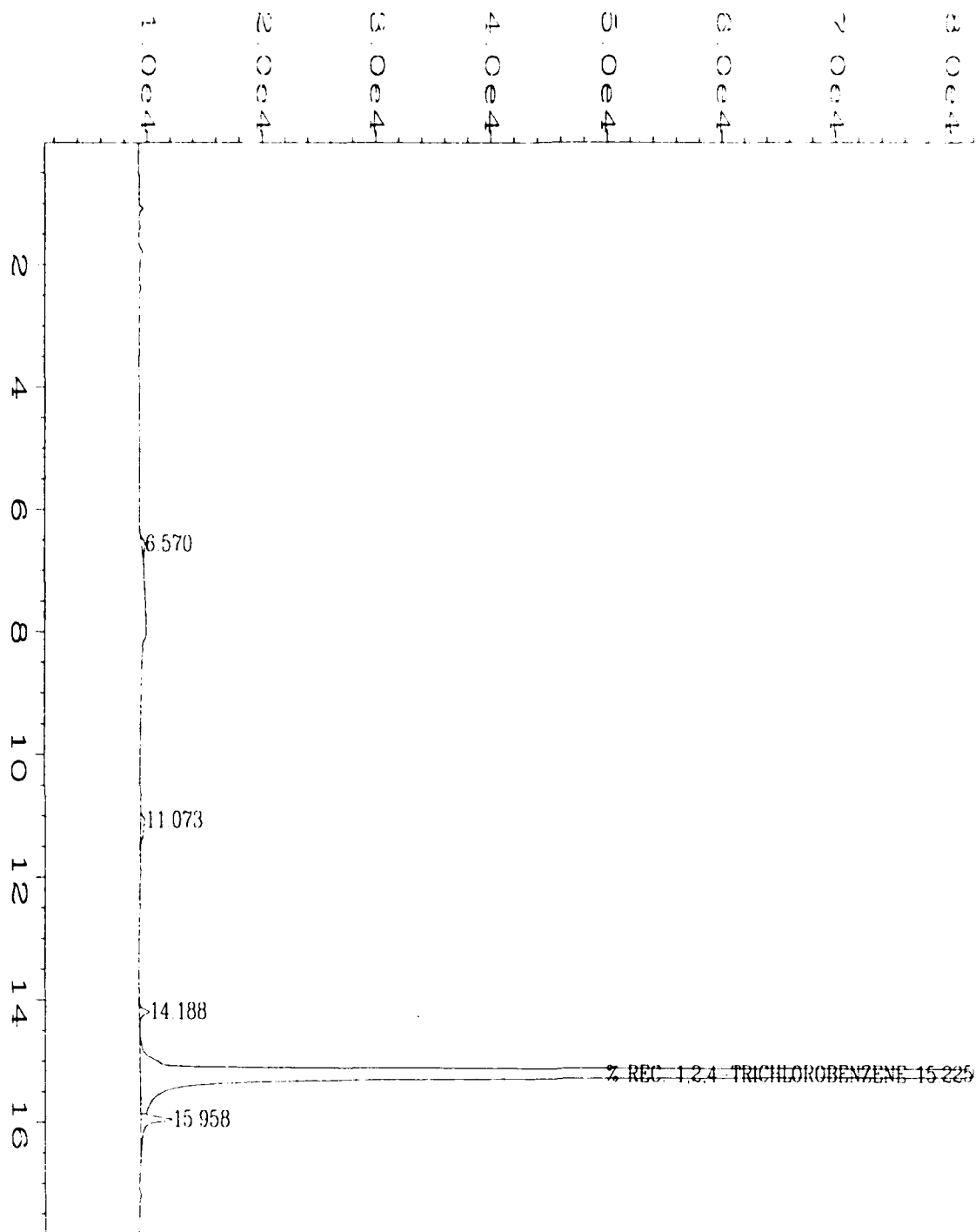
[Signature]

Approved

TVBP1829.XLS; 6/6/96; 9



ta File Name	: C:\HPCHEM\2\DATA\TVBX0605\012F0101.D	Page Number	: 1
erator	: KAPRIE S. HOLLMAN	Vial Number	: 12
strument	: TVHBTEX2	Injection Number	: 1
ample Name	: 96-1829-08A;1	Sequence Line	: 1
Time Bar Code:		Instrument Method:	TVW0409B.MTH
ired on	: 05 Jun 96 07:03 PM	Analysis Method	: TVW0409B.MTH
port Created on:	: 05 Jun 96 07:25 PM	Sample Amount	: 0
st Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
ltiplier	: 1		
ample Info	: CPT-19S; WATER		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\012R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 12
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-08A;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: TVW0409B
Acquired on	: 05 Jun 96 07:03 PM	Analysis Method	: BXW0601.MTH
Report Created on:	: 05 Jun 96 07:25 PM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-19S; WATER		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number	: TRIP BLANK	Client Project Number	: Madison ANGB
Lab Sample Number	: 96-1829-09	Lab Work Order	: 96-1829
Date Sampled	: NA	Matrix	: WATER
Date Received	: 6/5/96	Lab File Number(s)	: TVBX0605004
Date Prepared	: 6/5/96	Method Blank	: MB060596-W
FID Dilution Factor	: 1.0		
PID Dilution Factor	: 1.0		

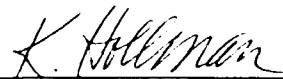
Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/5/96	U	0.1	mg/L
Benzene	71-43-2	6/5/96	U	0.4	ug/L
Toluene	108-88-3	6/5/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/5/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/5/96	U	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/5/96	U	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/5/96	U	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/5/96	U	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/5/96	U	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/5/96	U	0.5	ug/L
FID Surrogate Recovery:		97%		70%-130%	(Limits)
PID Surrogate Recovery:		104%		70%-128%	(Limits)

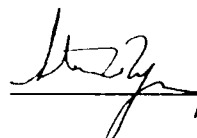
Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

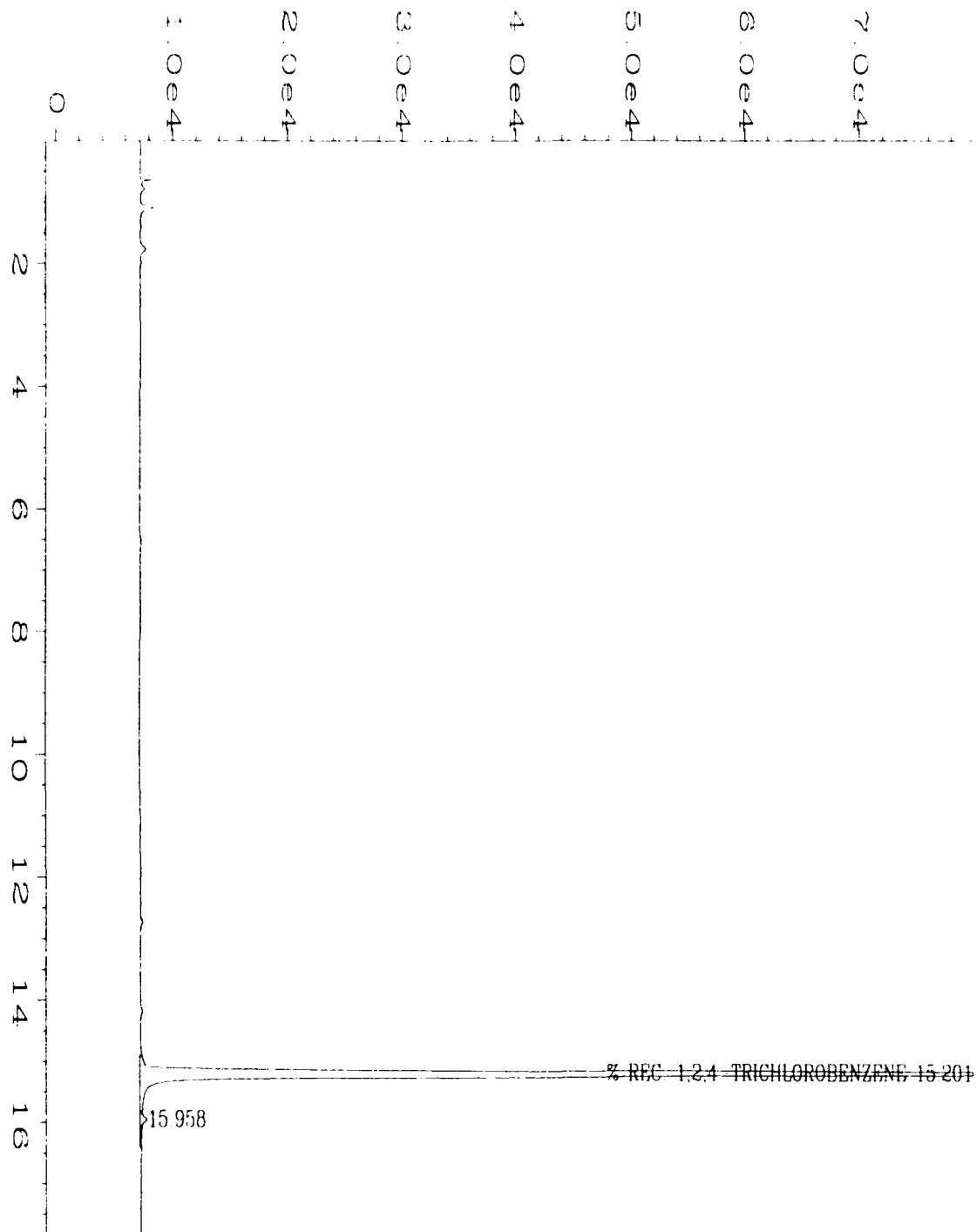
Comments:

QUALIFIERS and DEFINITIONS:

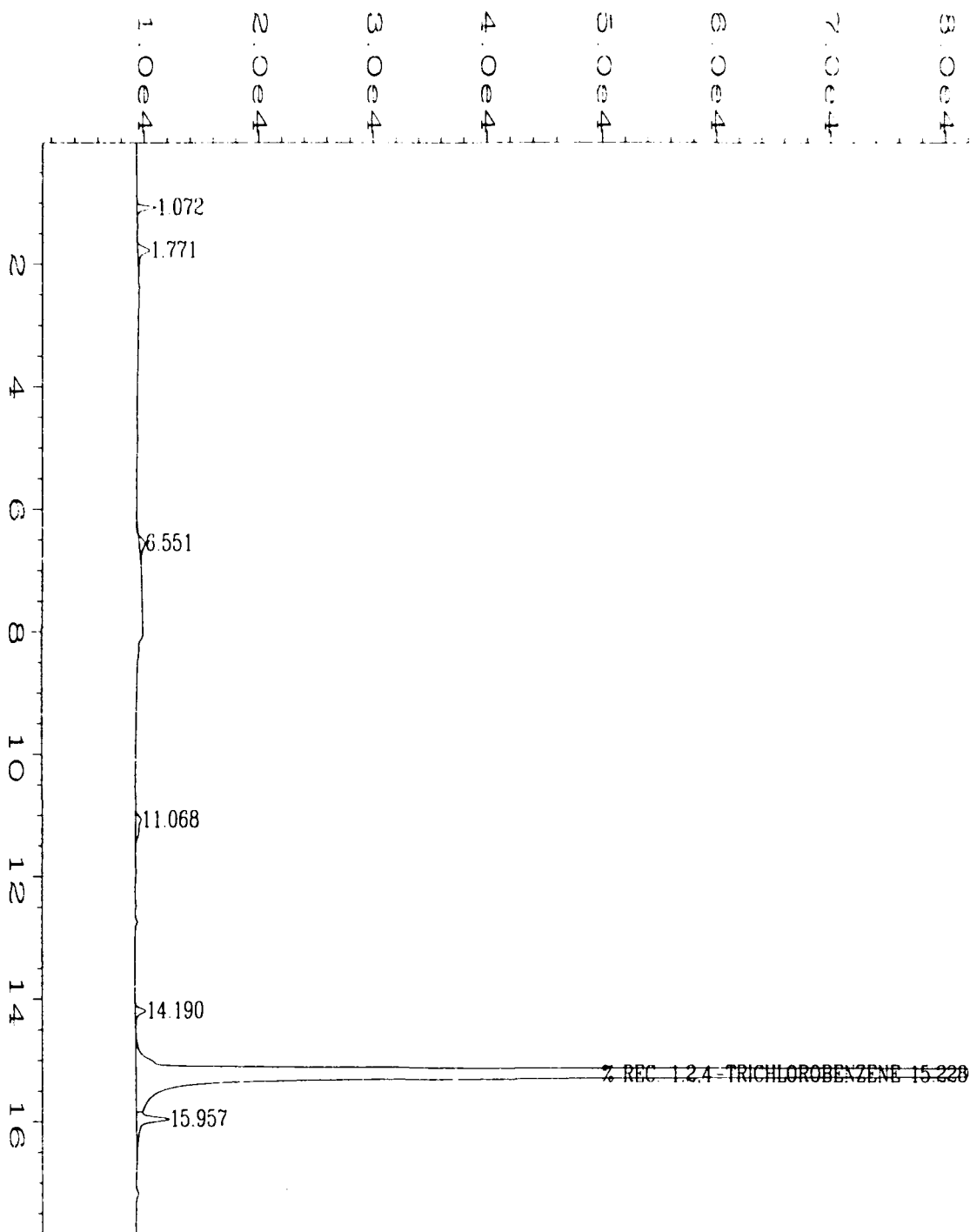
E = Extrapolated value. Value exceeds calibration range.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.
RL = Reporting Limit.
NA = Not Available/Not Applicable.
PID = Photoionization detector.
FID = Flame ionization detector.
TVH = Total Volatile Hydrocarbons.


Analyst


Approved
TVBP1829 XLS, 6/6/96, 10



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\004F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 4
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-09A;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: TVW0409B
Acquired on	: 05 Jun 96 02:16 PM	Analysis Method	: TVW0409B.MIF
Report Created on	: 05 Jun 96 03:35 PM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: TRIP BLANK; WATER		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\004R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 4
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-09A;1	Sequence Line	: 1
Time Bar Code:		Instrument Method	: TVW0409B.MTH
Acquired on	: 05 Jun 96 02:16 PM	Analysis Method	: BXW0601.MTH
Report Created on:	: 05 Jun 96 02:34 PM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: TRIP BLANK; WATER		

Evergreen Analytical, Inc.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

EPA 602/8020 Matrix Spike/Matrix Spike Duplicate Data Report

Client Sample No.	: CPT-1D MS/MSD	Client Project No.	: Madison ANGB
Lab Sample No.	: 96-1829-10	Lab Work Order	: 96-1829
Date Sampled	: 6/4/96	EPA Method No.	: 602/8020
Date Received	: 6/5/96	Matrix	: WATER
Date Prepared	: 6/5/96	Lab File Number(s)	: TVBX0605021,22
Date Analyzed	: 6/6/96	Method Blank	: MB060596-W
Instrument Name	: TVHBTEX2	Dilution Factor	: 1.0

Compound	Spike Added (ug/L)	Sample Concentration (ug/L)	Concentration (ug/L)		Comments
			MS	MSD	
Benzene	20.0	0.0	17.7	17.7	
Toluene	20.0	0.0	17.7	17.7	
Chlorobenzene	20.0	0.0	18.2	18.4	
Ethylbenzene	20.0	0.0	17.6	17.7	
m,p-Xylene	20.0	0.0	17.6	17.6	
o-Xylene	20.0	0.0	18.0	18.0	
1,3,5-TMB	20.0	0.0	17.7	17.8	
1,2,4-TMB	20.0	0.0	18.2	18.4	
1,2,3-TMB	20.0	0.0	18.6	18.8	
1,2,3,4-TeMB	20.0	0.0	19.7	20.0	
Surrogate	100.0	102%	105%	103%	% RECOVERY

Compound	MS % RECOVERY	MSD % RECOVERY	RPD	QC# Limits		
				RPD	%REC	
Benzene	88.5	88.5	0.0	21	60	132
Toluene	88.5	88.5	0.0	21	60	132
Chlorobenzene	91.0	92.0	1.1	19	67	127
Ethylbenzene	88.0	88.5	0.6	22	62	130
m,p-Xylene	88.0	88.0	0.0	21	58	136
o-Xylene	90.0	90.0	0.0	23	60	133
1,3,5-TMB	88.5	89.0	0.6	25	71	118
1,2,4-TMB	91.0	92.0	1.1	34	68	120
1,2,3-TMB	93.0	94.0	1.1	22	72	118
1,2,3,4-TeMB	98.5	100.0	1.5	34	68	125
Surrogate	105.0	103.0	NA	NA	70	128

= Limits established 5/22/96, KSH.

* = Values outside of QC limits.

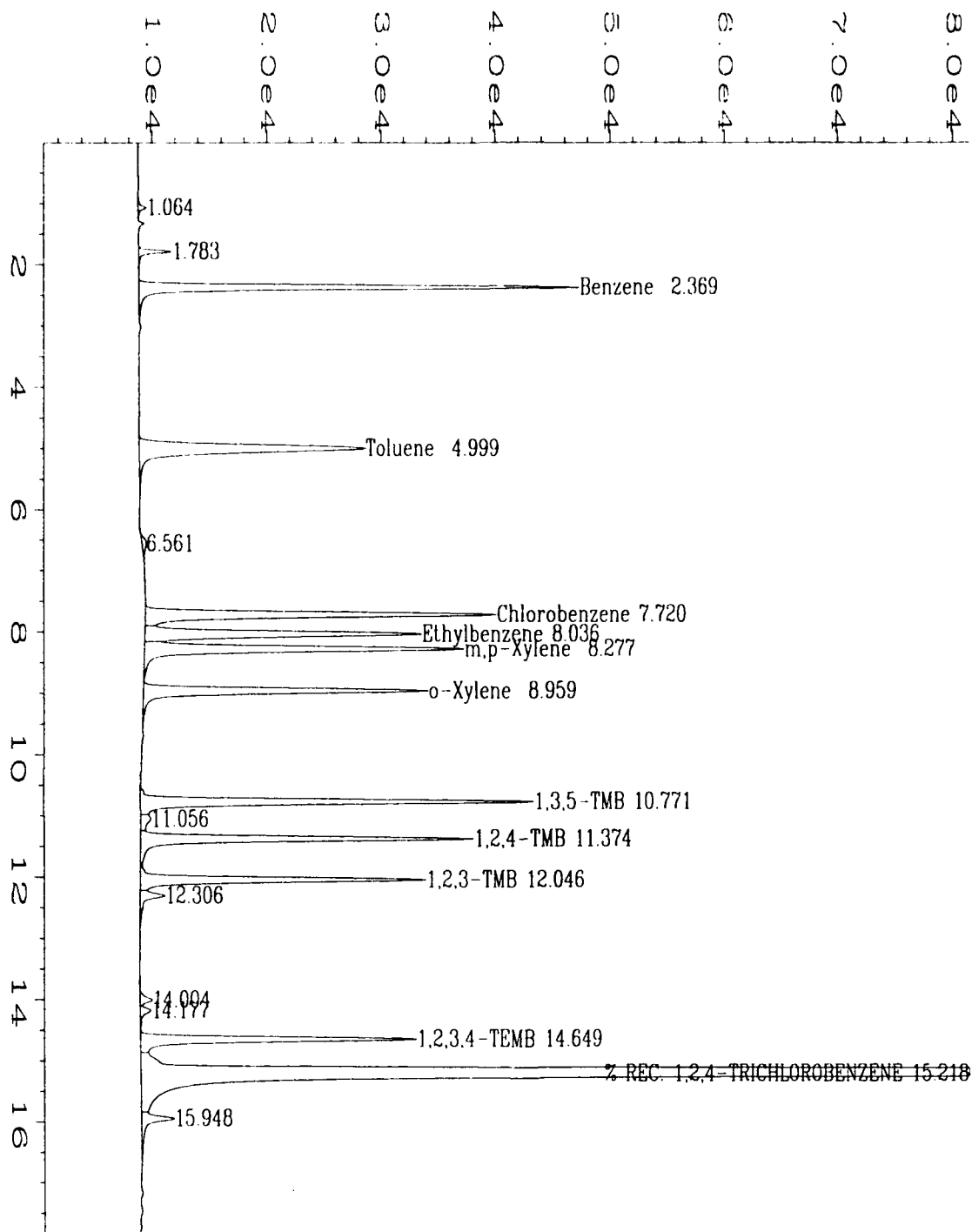
RPD: 0 out of (10) outside limits.

Spike Recovery: 0 out of (20) outside limits.

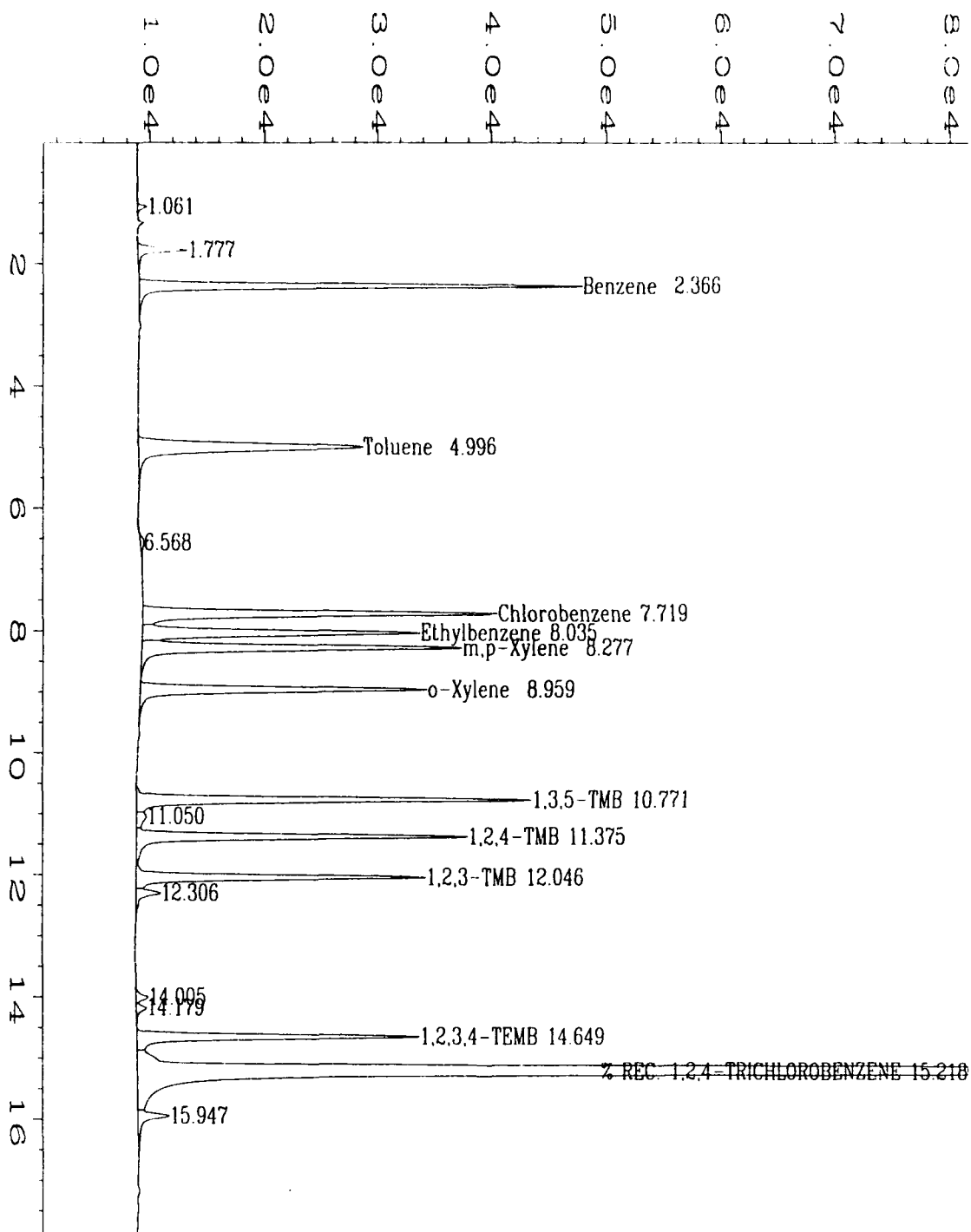
Comments:

K. Hollman
Analyst

[Signature]
Approved



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\021R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 21
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-10C-MS;1	Sequence Line	: 1
R Time Bar Code:		Instrument Method	: TVW0409B.MTH
A Lired on	: 06 Jun 96 00:40 AM	Analysis Method	: BXW0601.MTH
Report Created on:	: 06 Jun 96 00:58 AM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-1D MS/MSD; WATER, PLUS 20.0 PPB BTEX SPIKE #1871.		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\022R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 22
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-10D-MSD	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: TVW0409B
Acquired on	: 06 Jun 96 01:17 AM	Analysis Method	: BXW0601.MTH
Report Created on:	: 06 Jun 96 01:35 AM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-1D MS/MSD; WATER, PLUS 20.0 PPB BTEX SPIKE #1871.		

Evergreen Analytical, Inc.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS (TVH as Gasoline)
TVH Matrix Spike/Matrix Spike Duplicate Data Report

Client Sample No.	: CPT-1D MS/MSD	Client Project No.	: Madison ANGB
Lab Sample No.	: 96-1829-10	Lab Work Order	: 96-1829
Date Sampled	: 6/4/96	EPA Method No.	: 5030/8015 Modified
Date Received	: 6/5/96	Matrix	: WATER
Date Prepared	: 6/5/96	Lab File Number(s)	: TVBX0605019,20
Date Analyzed	: 6/5,6/96	Method Blank	: MB060596-W
Instrument Name	: TVHBTEX2	Dilution Factor	: 1.0

Compound	Spike Added (mg/L)	Sample Concentration (mg/L)	MS Concentration (mg/L)	MS %REC	QC (#)
					Limits
Gasoline	2.00	0.00	1.72	86.0%	57 - 129
Surrogate **	---	---	---	97%	70 - 128

Compound	Spike Added (mg/L)	MSD Concentration (mg/L)	MSD %REC	RPD	QC (#)	
					RPD	%REC
Gasoline	2.00	1.64	82.0%	4.8	44.1	57 - 129
Surrogate **	---	---	97%	NA	NA	70 - 128

RPD: 0 out of (1) outside limits.
Spike Recovery: 0 out of (2) outside limits.

Notes:

NA = Not analyzed/not applicable.

* = Values outside of QC limits.

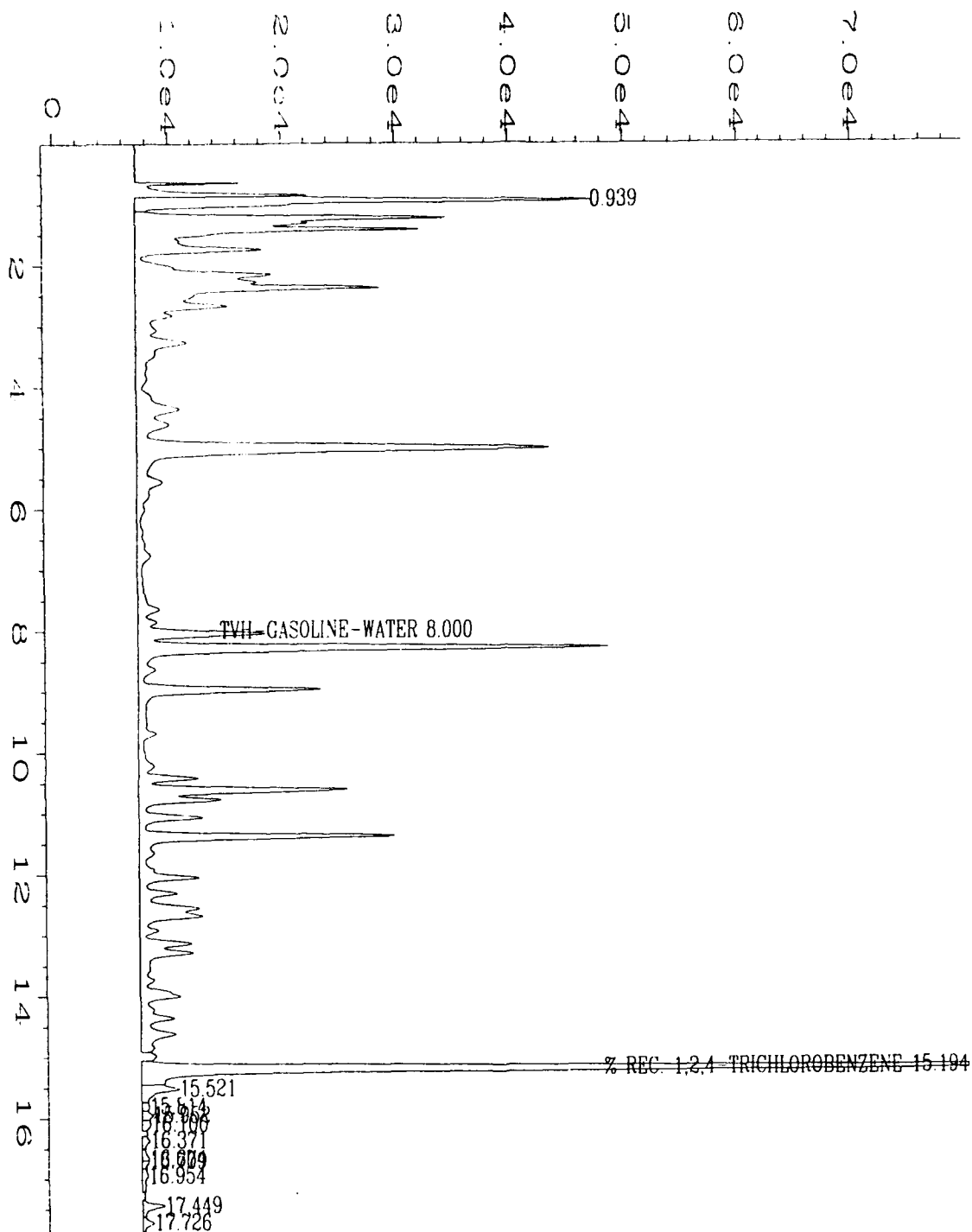
** = 1,2,4-Trichlorobenzene

= Limits established 5/22/96, KSH.

Comments: _____

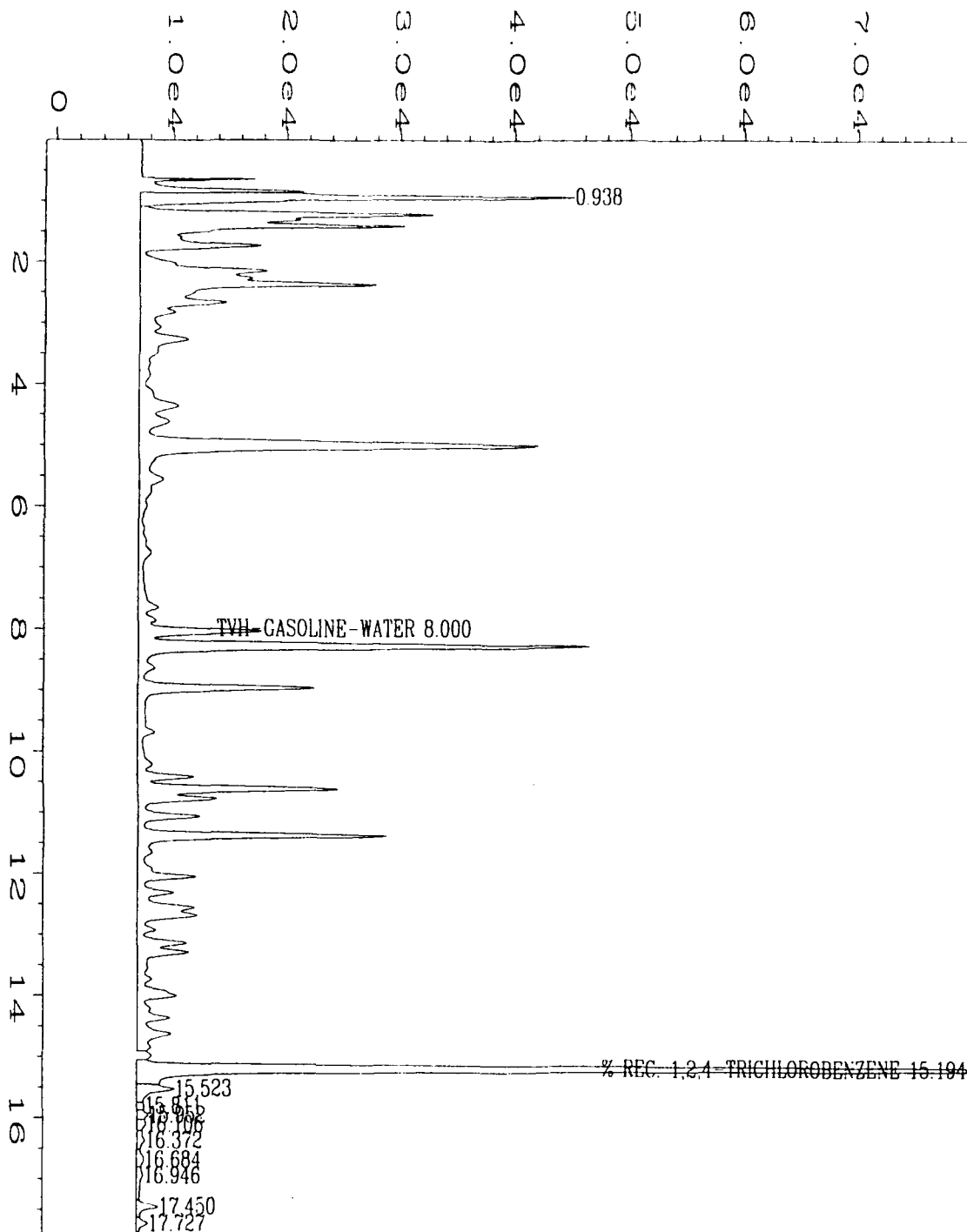
K. Hollman
Analyst

[Signature]
Approved



Data File Name : C:\HPCHEM\2\DATA\TVBX0605\019F0101.D
 Operator : KAPRIE S. HOLLMAN
 Instrument : TVHBTEX2
 Sample Name : 96-1829-10A-MS;1
 Run Time Bar Code:
 Acquired on : 05 Jun 96 11:26 PM
 Report Created on: 05 Jun 96 11:44 PM
 Last Recalib on : 09 APR 96 10:42 AM
 Multiplier : 1
 Sample Info : CPT-1D MS/MSD; WATER, PLUS 2.00 PPM GASOLINE #1870A.

Page Number : 1
 Vial Number : 19
 Injection Number : 1
 Sequence Line : 1
 Instrument Method: TVW0409B
 Analysis Method : TVW0409B.MPI
 Sample Amount : 0
 ISTD Amount :



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\020F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 20
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1829-10B-MSD	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TVW0409B.MTH
Acquired on	: 06 Jun 96 00:03 AM	Analysis Method	: TVW0409B.MTH
Report Created on:	06 Jun 96 00:21 AM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-1D MS/MSD; WATER, PLUS 2.00 PPM GASOLINE #1870A.		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL EXTRACTABLE HYDROCARBONS (TEH-JP-4)

Date Sampled : 6/4/96 Client Project Number : Madison ANGB
Date Received : 6/5/96 Lab Work Order : 96-1829
Date Prepared : 6/5/96 Method Number : EPA 3500/8015 Modified

Evergreen Sample #	Dilution Factor	Client Sample #	Matrix	Analysis Date	Surrogate Recovery	Sample Result	RL	Units
WB060596	1	Water Method Blank	Water	6/12/96	91%	U	0.5	mg/L
96-1829-06	1	MW-12	Water	6/13/96	97%	U	0.5	mg/L
96-1829-08	1	CPT-19S	Water	6/13/96	97%	U	0.5	mg/L

Qualifiers

U = TEH analyzed for, but not detected.

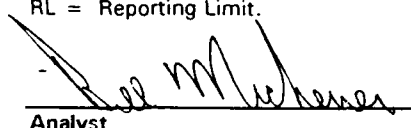
B = TEH-JP-4 also found in blank.

E = Extrapolated value. Value exceeds calibration range.

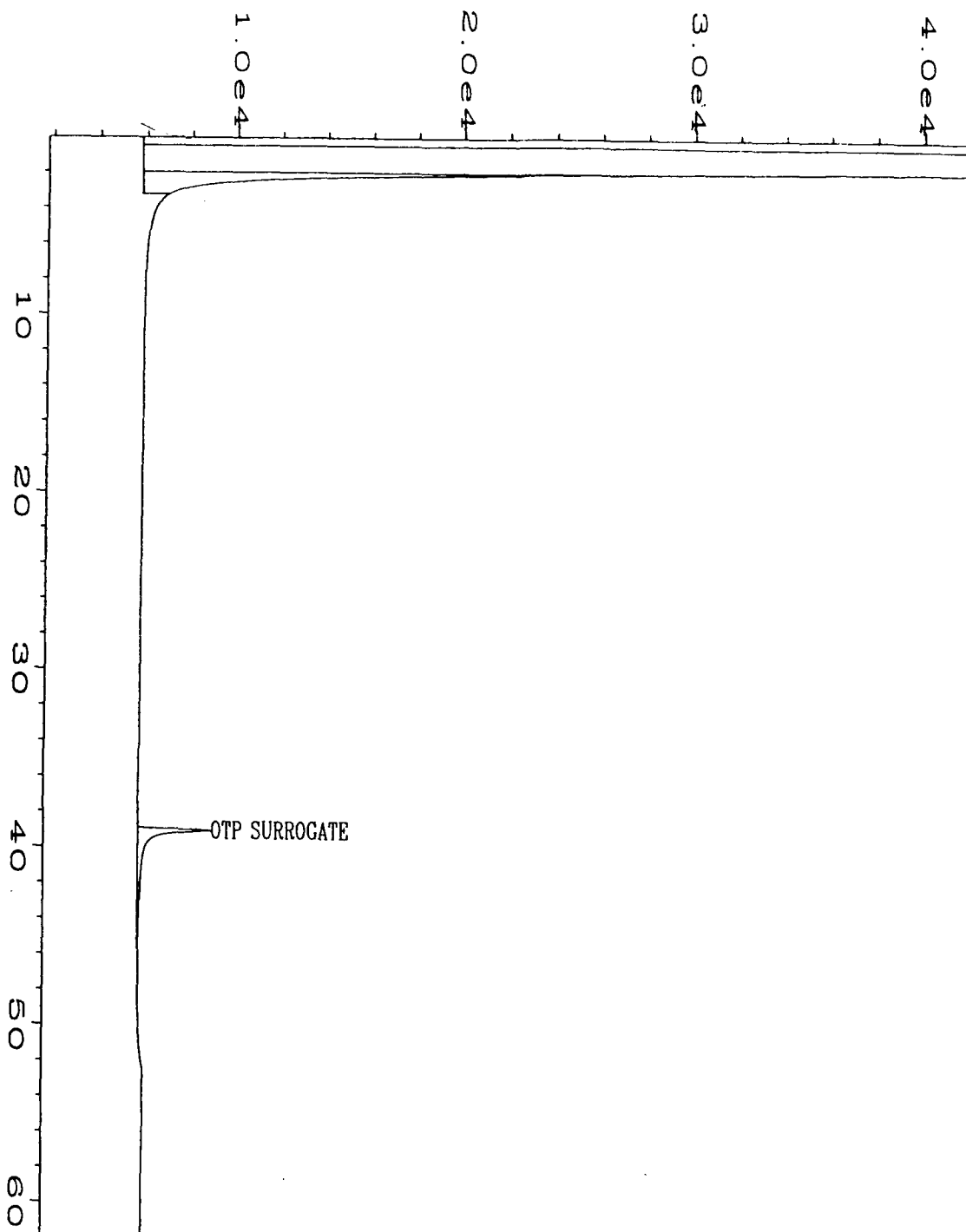
RL = Reporting Limit.

Notes

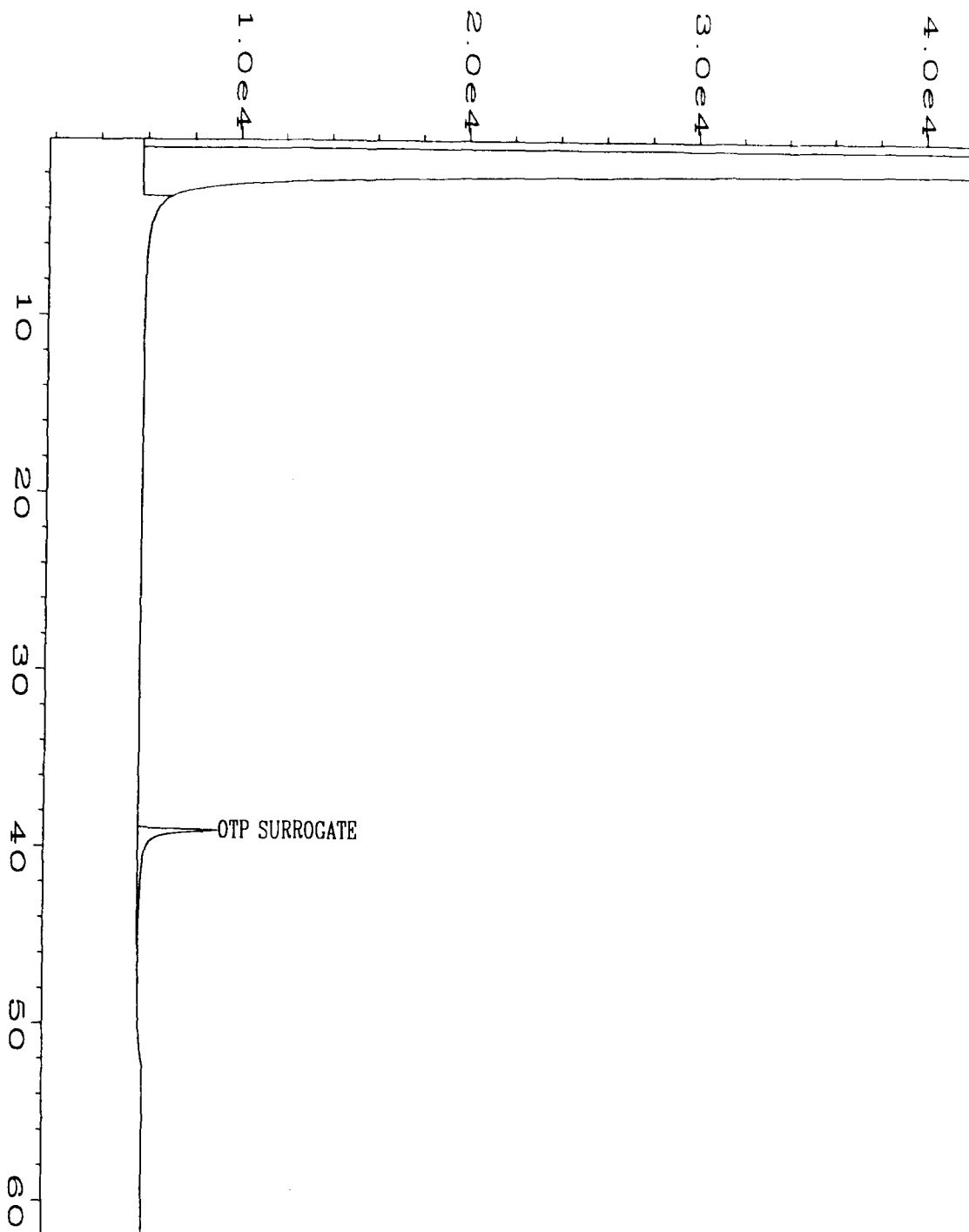
Surrogate = OTP


Analyst

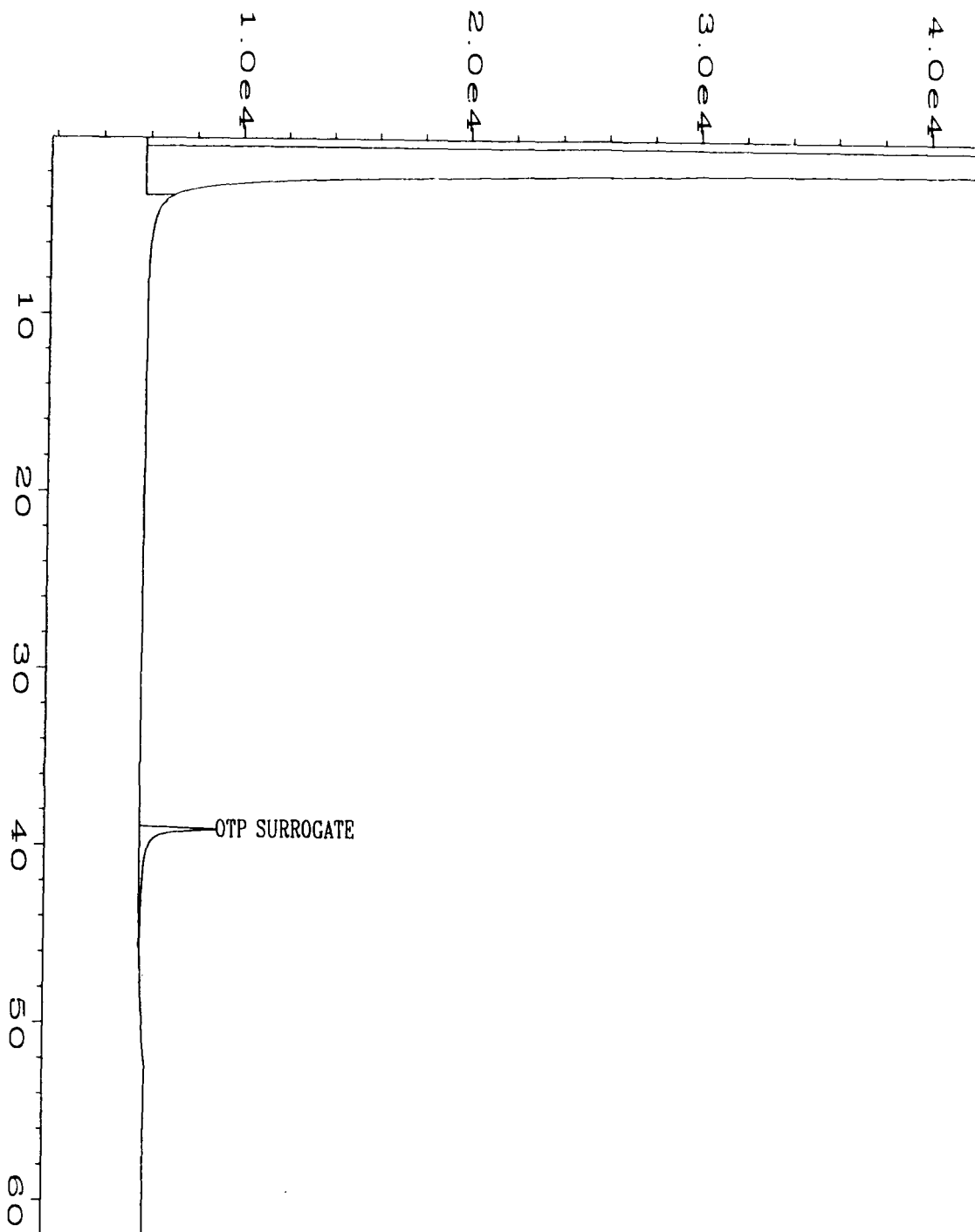

Approved



Data File Name	: C:\HPCHEM\FID1\DATA\fid10611\023F0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 23
Instrument	: FID1	Injection Number	: 1
Sample Name	: WB060596	Sequence Line	: 1
Time Bar Code:		Instrument Method	: FIDMETRO.MTH
Acquired on	: 12 Jun 96 06:50 PM	Analysis Method	: FIDJ0611.MTH
Report Created on:	13 Jun 96 11:00 AM	Sample Amount	: 0
Last Recalib on	: 12 JUN 96 04:11 PM	ISTD Amount	:
Multiplier	: 1		



Data File Name	: C:\HPCHEM\FID1\DATA\fid10611\031F0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 31
Instrument	: FID1	Injection Number	: 1
Sample Name	: 96-1829-06;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	FIDMETRO
Acquired on	: 13 Jun 96 04:42 AM	Analysis Method	: FIDJ0611.MT
Report Created on:	13 Jun 96 11:01 AM	Sample Amount	: 0
Last Recalib on	: 12 JUN 96 04:11 PM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-12;Water		



ata File Name	: C:\HPCHEM\FID1\DATA\fid10611\032F0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 32
Instrument	: FID1	Injection Number	: 1
Sample Name	: 96-1829-08;1	Sequence Line	: 1
Time Bar Code:		Instrument Method:	FIDMETRO.MTH
quired on	: 13 Jun 96 05:56 AM	Analysis Method	: FIDJ0611.MTH
Report Created on:	13 Jun 96 11:01 AM	Sample Amount	: 0
st Recalib on	: 12 JUN 96 04:11 PM	ISTD Amount	:
ultiplier	: 1		
Sample Info	: CPT-19S;Water		

Evergreen Analytical, Inc.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL EXTRACTABLE HYDROCARBONS (TEH as JP-4)
TEH Laboratory Control Spike/Laboratory Control Spike Duplicate Data Report

LCS Number : LCS1&11060596w Matrix : Water
Date Prepared : 6/5/96 Method Number : EPA 3500/8015 Modified
Date Analyzed : 6/12,13/96
Lab File No. : FID10611026,040

Compound	Spike Added (mg/L)	Sample Blank Concentration (mg/L)	LCS* Concentration (mg/L)	LCS %REC	QC Limits %REC
JP-4	1000	0	1186	118.6	50-121
Surrogate	NA	91%	90%	NA	50-150

Compound	Spike Added (mg/L)	LCSD* Concentration (mg/L)	LCSD %REC	RPD	RPD	QC Limits %REC
JP-4	1000	988	98.8	18.1	50	50-121
Surrogate	NA	85%	NA	NA	NA	50-150

RPD: 0 out of (1) outside limits.
Spike Recovery: 0 out of (2) outside limits.

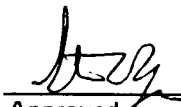
Notes

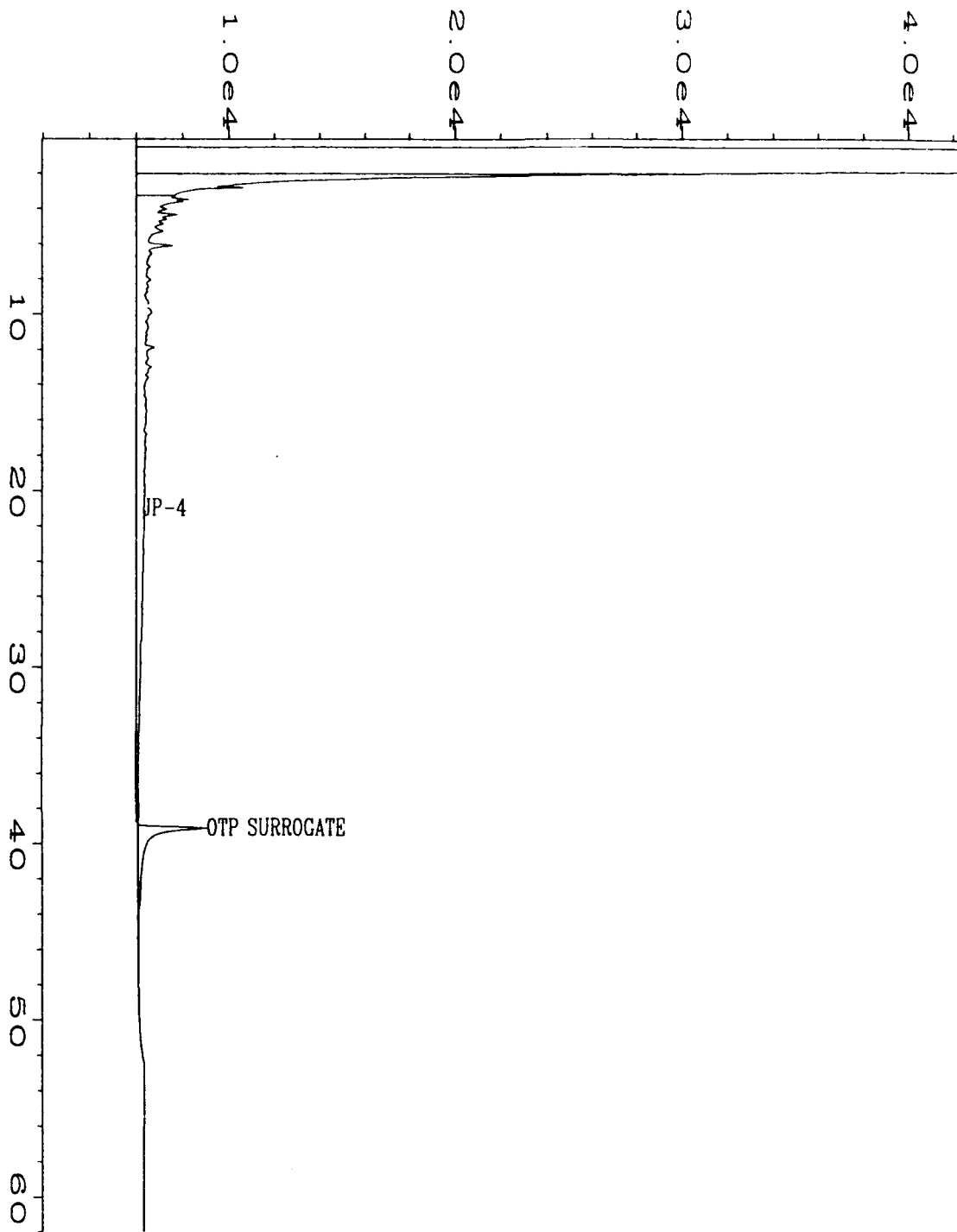
** = Values outside of QC limits.

NA = Not analyzed/not applicable.

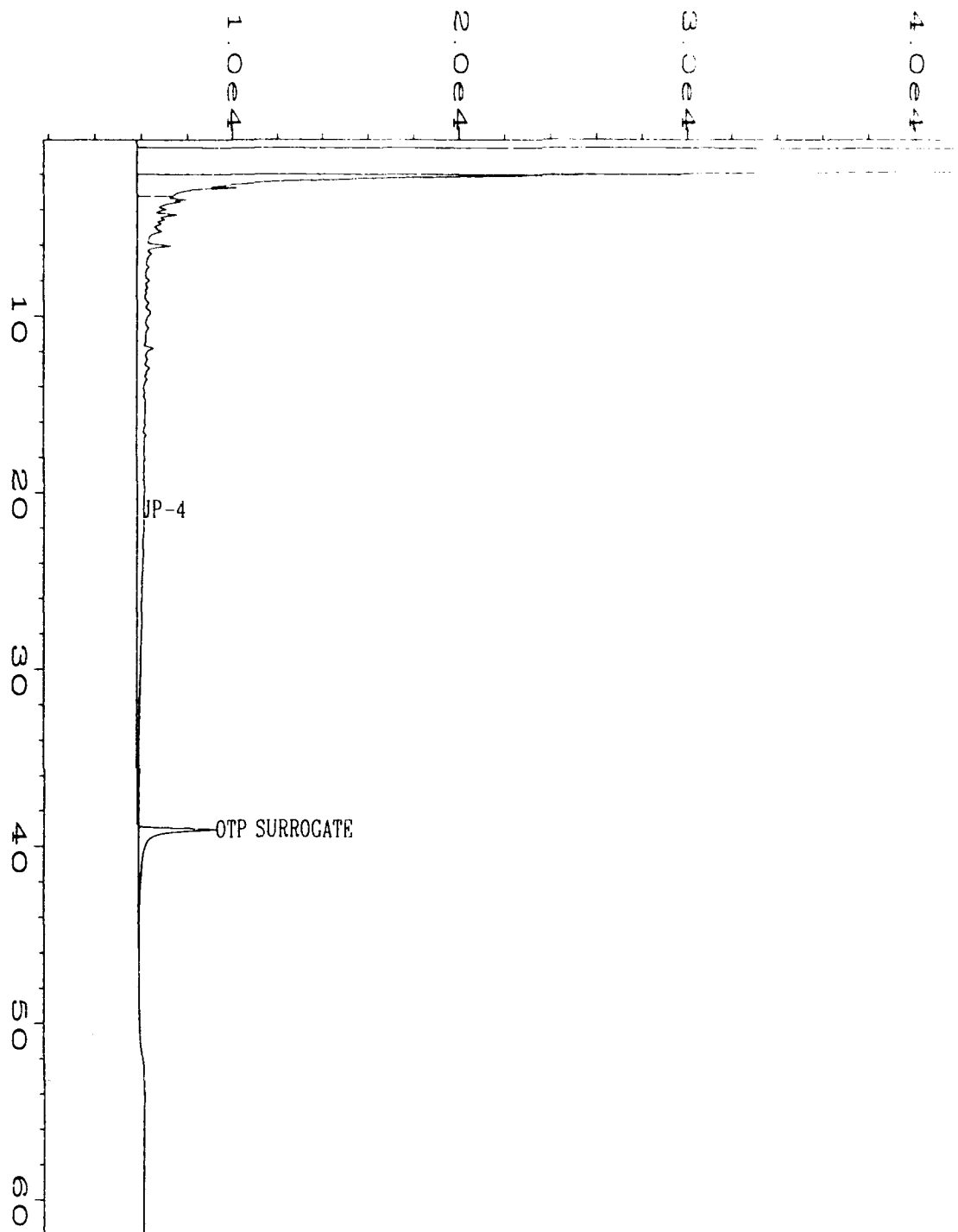
Comments: * LCS concentrations are reported based on the one ml extract volume.


Analyst


Approved



File Name	: C:\HPCHEM\FID1\DATA\FID10611\040F0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 40
Instrument	: FID1	Injection Number	: 1
Sample Name	: LCS1060596w	Sequence Line	: 1
Time Bar Code:		Instrument Method	: FIDMETRO.MTH
Acquired on	: 13 Jun 96 09:00 PM	Analysis Method	: FIDJ0611.MTH
Report Created on	: 14 Jun 96 07:05 AM	Sample Amount	: 0
Last Recalib on	: 12 JUN 96 04:11 PM	ISTD Amount	:
Multiplier	: 1		



Data File Name	: C:\HPCHEM\FID1\DATA\fid10611\026F0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 26
Instrument	: FID1	Injection Number	: 1
Sample Name	: LCSII060596w	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	FIDMETRO.MT
Acquired on	: 12 Jun 96 10:31 PM	Analysis Method	: FIDJ0611.MT
Report Created on:	13 Jun 96 11:00 AM	Sample Amount	: 0
Last Recalib on	: 12 JUN 96 04:11 PM	ISTD Amount	:
Multiplier	: 1		

Evergreen Analytical, Inc.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

RSKSOP-175 Gas Method
Methane LCS Report Form

LCS No. : LCS061496 EPA Method No. : RSKSOP-175
Date Prepared : 6/14/96 Matrix : Water
Date Analyzed : 6/14/96 Method Blank : GB061496
E.A. LCS Source No. : 1719 Lab File No. : GAS0614006

Compound	Spike Added (ug)	Method Blank Concentration (ug)	LCS Concentration (ug)	LCS %REC	QC Limits %REC
Methane Gas	500	0	395	79	67-85

Spike Recovery: 0 out of (1) outside limits.

Note: The LCS was made by taking the sample and displacing 4ml of headspace with a 1% methane gas and shaking the VOA for 5 minutes. Then injecting 50 ul from the headspace into the GC resulting in a theoretical concentration of 500 ug.

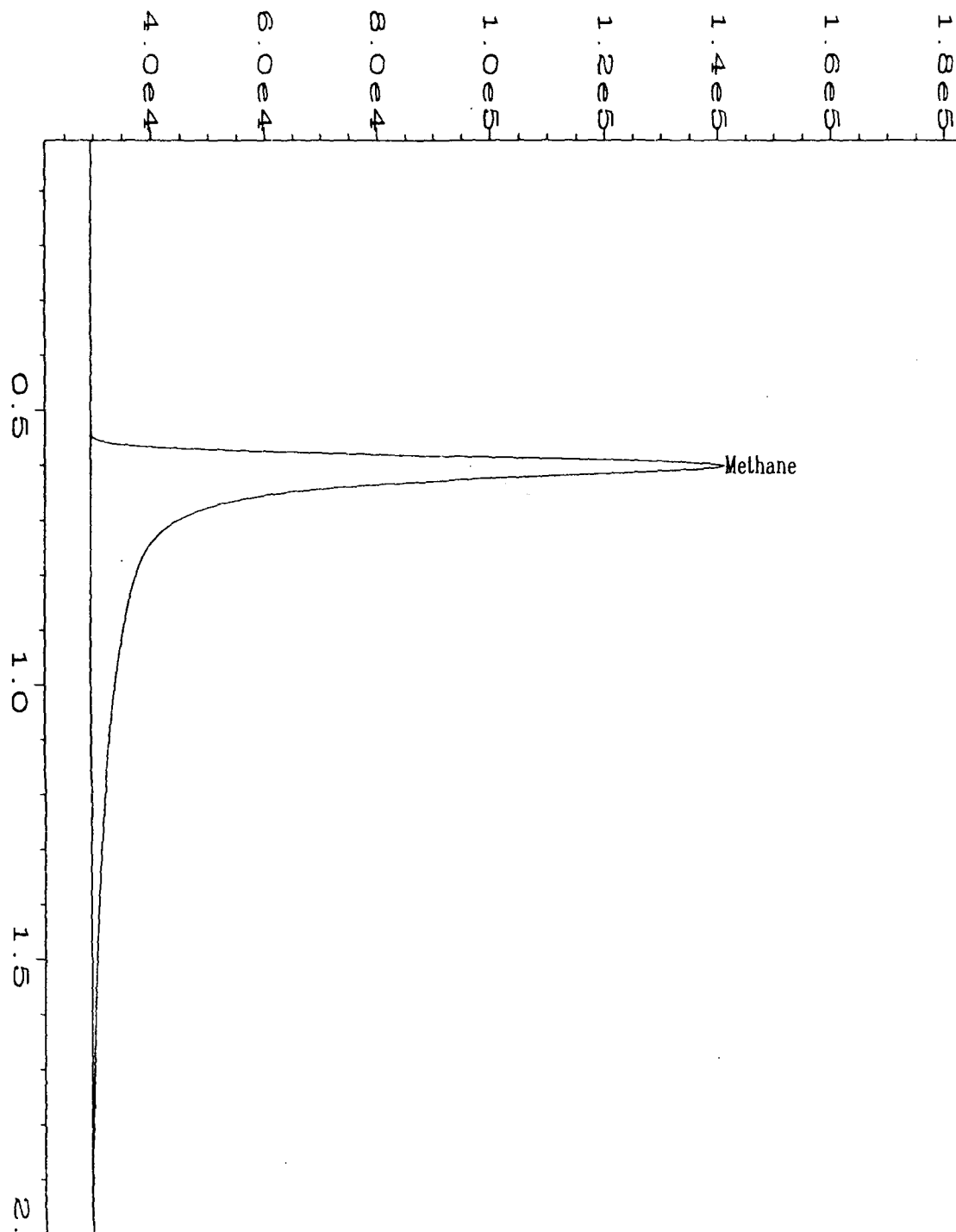
Notes

* = Values outside of QC limits.

NA = Not analyzed/not available.


Analyst


Approved



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\006R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 6
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: LCS061496;Gas	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 14 Jun 96 10:08 AM	Analysis Method	: GAS0614.MTH
Report Created on:	17 Jun 96 10:39 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: Laboratory Control Sample		
	Displaced 4ml of deionized water in 43ml vial with 1%		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form
Method Blank Report

Method Blank Number	: GB061496	Client Project No.	: Madison ANGB
Date Extracted/Prepared	: 6/14/96	Lab Work Order	: 96-1829
Date Analyzed	: 6/14/96	Dilution Factor	: 1.00
		Method	: RSKSOP-175
		Matrix	: Water
		Lab File No.	: GAS0614002

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.002

Qualifiers

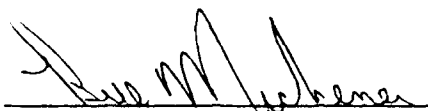
E = Extrapolated value.

U = Compound analyzed for, but not detected.

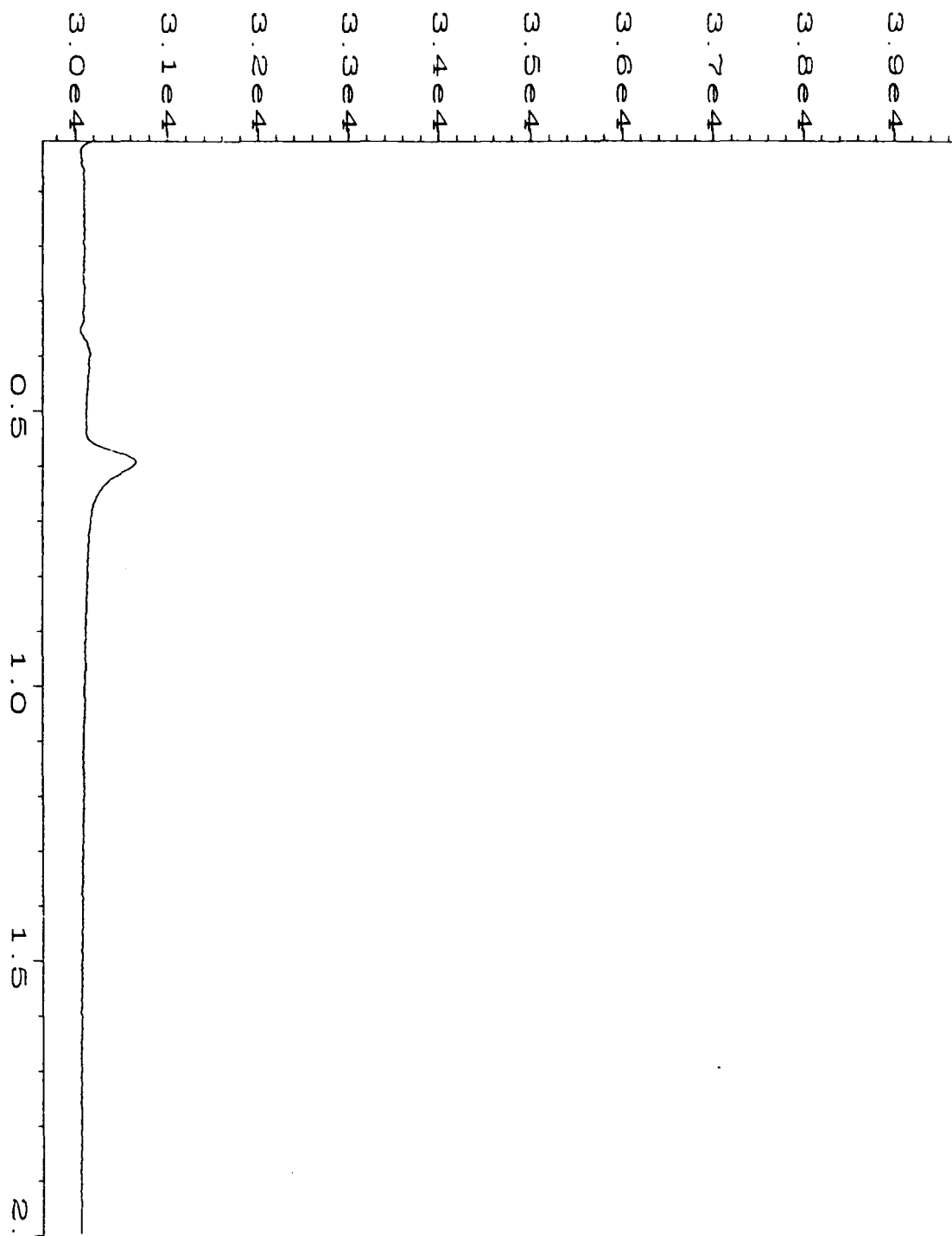
B = Compound also found in the blank.

RL = Reporting Limit.

NA = Not Available/Not Applicable.


Analyst


Approved



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\002R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 2
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: GB061496	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 14 Jun 96 09:30 AM	Analysis Method	: GAS0614.MTH
Report Created on:	17 Jun 96 10:39 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: Gas Method Blank		
	: Displaced 4ml of deionized water in 43ml vial with Helium,		

Evergreen Analytical, Inc.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

RSKSOP-175 Gas Method
Methane, Ethane, Ethene Gas Matrix Spike / Matrix Spike Duplicate Report

Client Sample No.	: CPT-1D	Client Project No.	: Madison ANGB
Lab Sample No.	: 96-1829-01	Lab Work Order	: 96-1829
Date Sampled	: 6/4/96	EPA Method No.	: RSKSOP-175
Date Received	: 6/5/96	Matrix	: Water
Date Prepared	: 6/14/96	Method Blank	: GB061496
Date Analyzed	: 6/14/96	Lab File No's.	: GAS0614017,018
E.A. MS/MSD Spike Source No.	: 1719		

Compound	Spike Added (ug)	Sample Concentration (ug)	MS Concentration (ug)	MS %REC	QC Limits %REC
Methane Gas	500	51	349	60	40-89

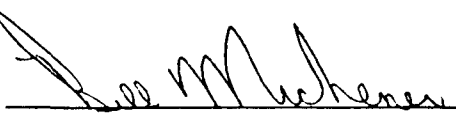
Compound	Spike Added (ug)	MSD Concentration (ug)	MSD %REC	RPD	QC Limits	
					RPD	%REC
Methane Gas	500	349	60	0.2	0-24.4	40-89

RPD: 0 out of (1) outside limits.
Spike Recovery: 0 out of (2) outside limits.

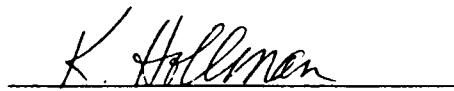
Notes

* = Values outside of QC limits.
NA = Not analyzed/not available

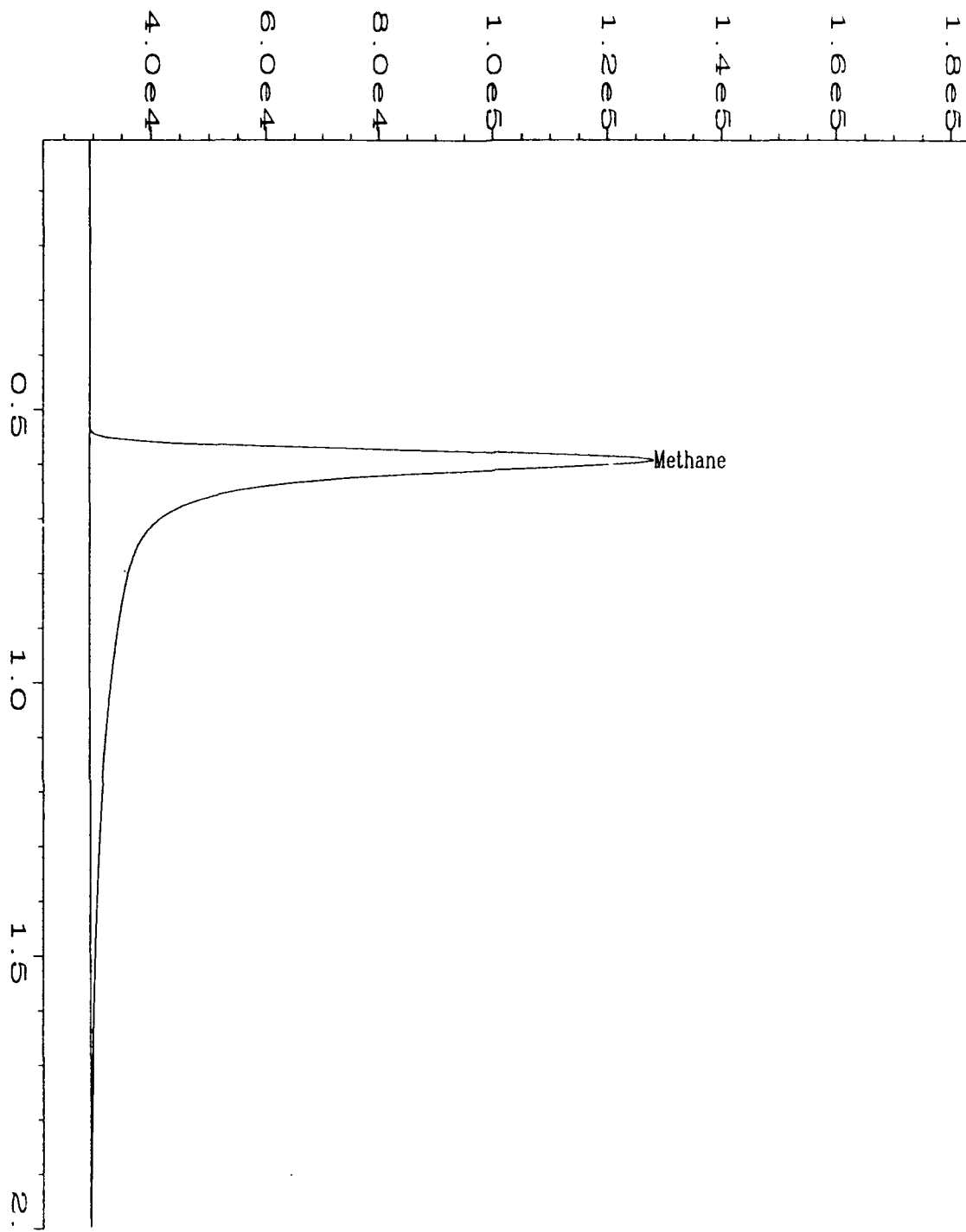
Note: The Spike was made by taking the sample and displacing 4ml of headspace with a 1% methane gas and shaking the VOA for 5 minutes. Then injecting 50 ul from the headspace into the GC resulting in a theoretical concentration of 500 ug.



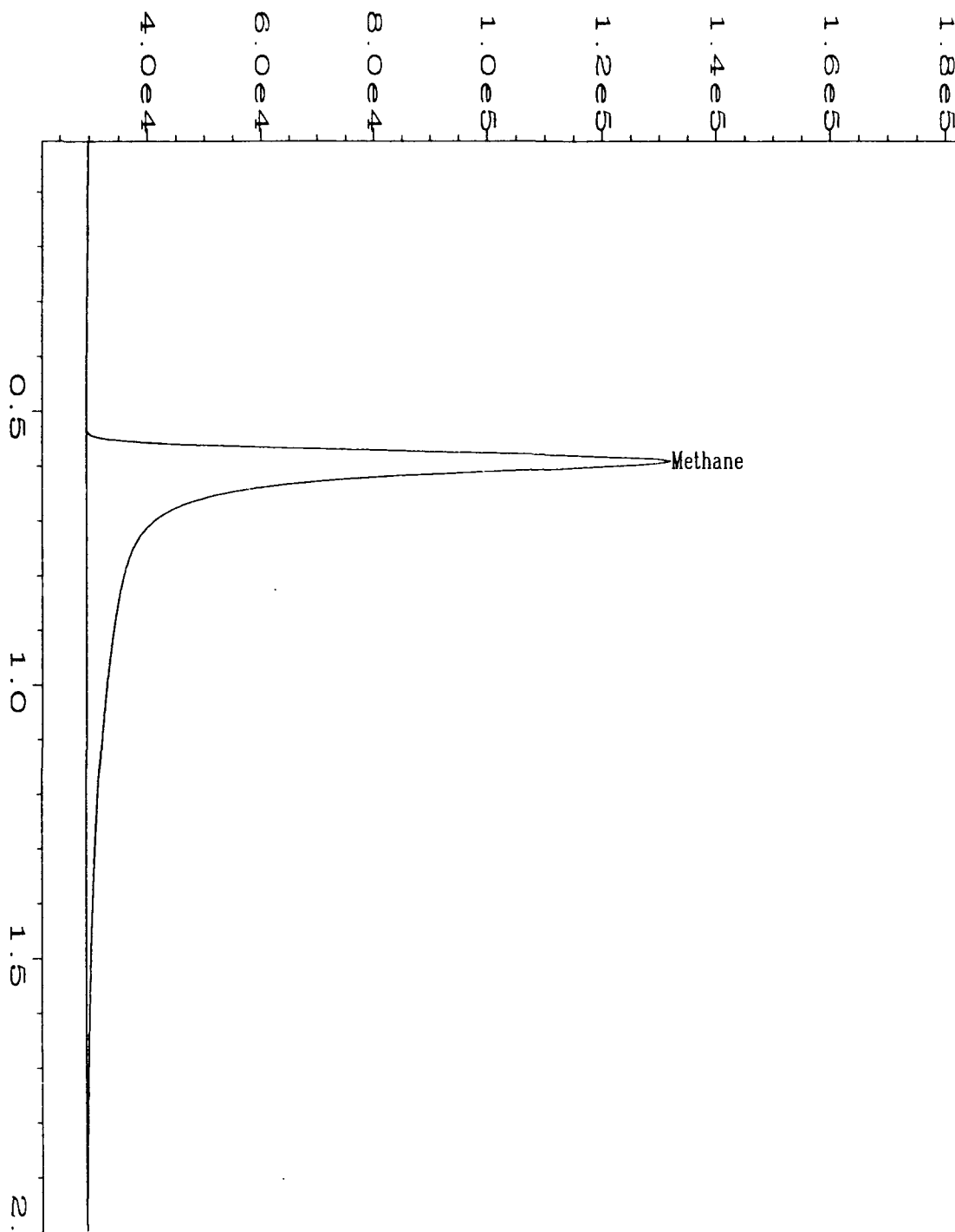
Analyst



Approved



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\017R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 17
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1829-01MS;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 14 Jun 96 12:12 PM	Analysis Method	: GAS0614.MTH
Report Created on:	17 Jun 96 10:40 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-1D;Displaced 4ml with 1% methane, ethane and ethene gas(#1719), shook for 5 min. and injected 50ul to equal a theoretical spike of 500ug. The sample is injected at		



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\018R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 18
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1829-01MSD;1	Sequence Line	: 1
Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 14 Jun 96 12:17 PM	Analysis Method	: GAS0614.MTH
Report Created on:	17 Jun 96 10:40 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-1D;Displaced 4ml with 1% methane, ethane and ethene gas(#1719), shook for 5 min. and injected 50ul to equal a theoretical spike of 500ug. The sample is indicated by		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: CPT-1D	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1829-01	Lab Work Order	: 96-1829
Date Sampled	: 6/4/96	Dilution Factor	: 1.00
Date Received	: 6/5/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614007

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.090	0.002

Temperature	: 82.8 F	Saturation Meth	: 0.02194
Amount Injected	: 0.5 ml	Concentration	
Total Volume of Sample	: 43 ml	Concentration Meth	: 0.06775423
Head space created	: 4 ml	in Head Space	
Methane Area	: 510.227 ug		

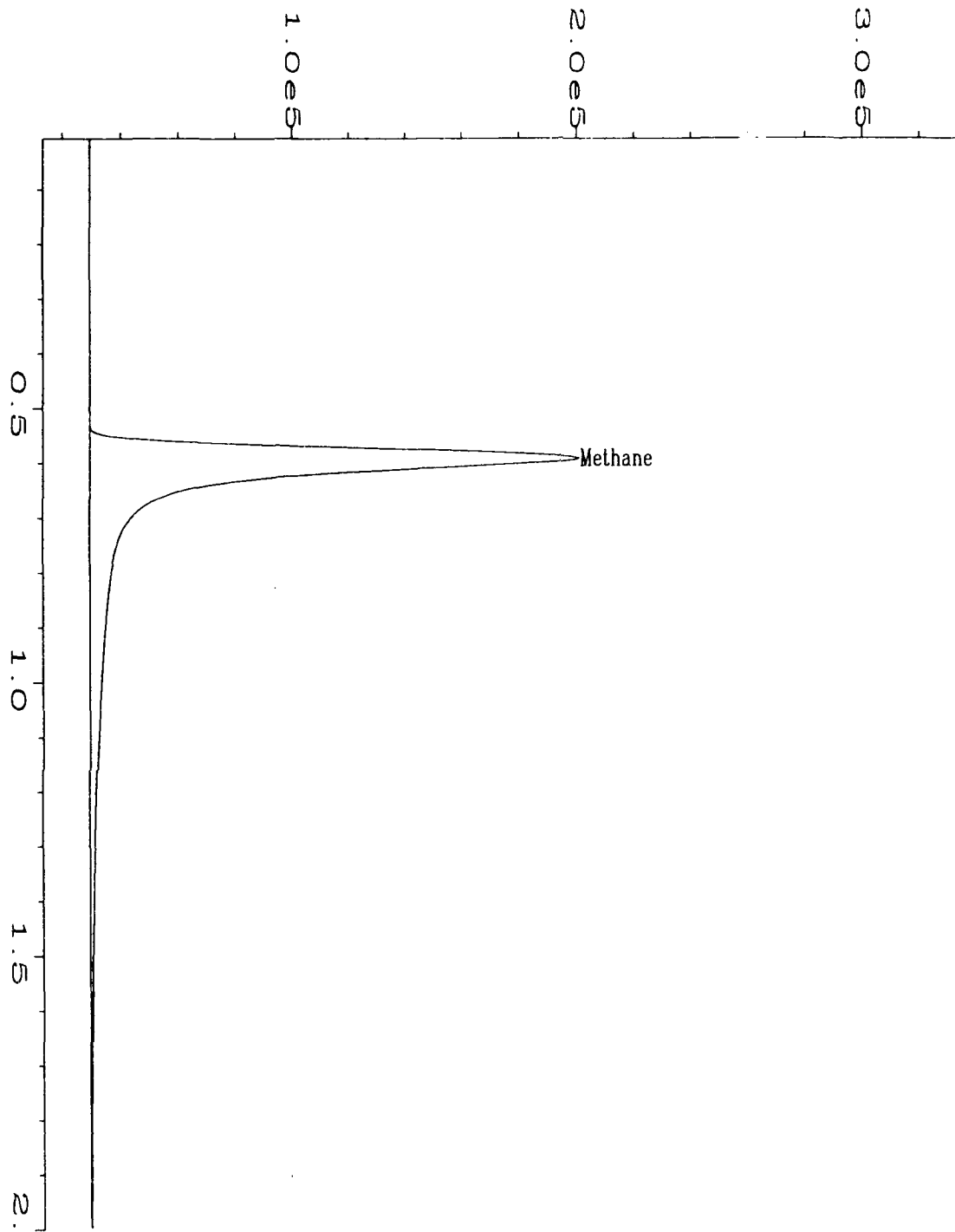
Atomic weight(Methane) : 16 g

Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\007R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 7
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1829-01;1	Sequence Line	: 1
Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 14 Jun 96 11:09 AM	Analysis Method	: GAS0614.MTH
Report Created on:	17 Jun 96 10:39 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-1D;Water		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: CPT-5D	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1829-02	Lab Work Order	: 96-1829
Date Sampled	: 6/4/96	Dilution Factor	: 50.00
Date Received	: 6/5/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614008

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	4.1	0.1

Temperature	: 82.9 F	Saturation	Meth	1.0031
Amount Injected	: 0.01 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	3.0970754
Head space created	: 4 ml	in Head Space		
Methane Area	: 466.54 ug			

Atomic weight(Methane) : 16 g

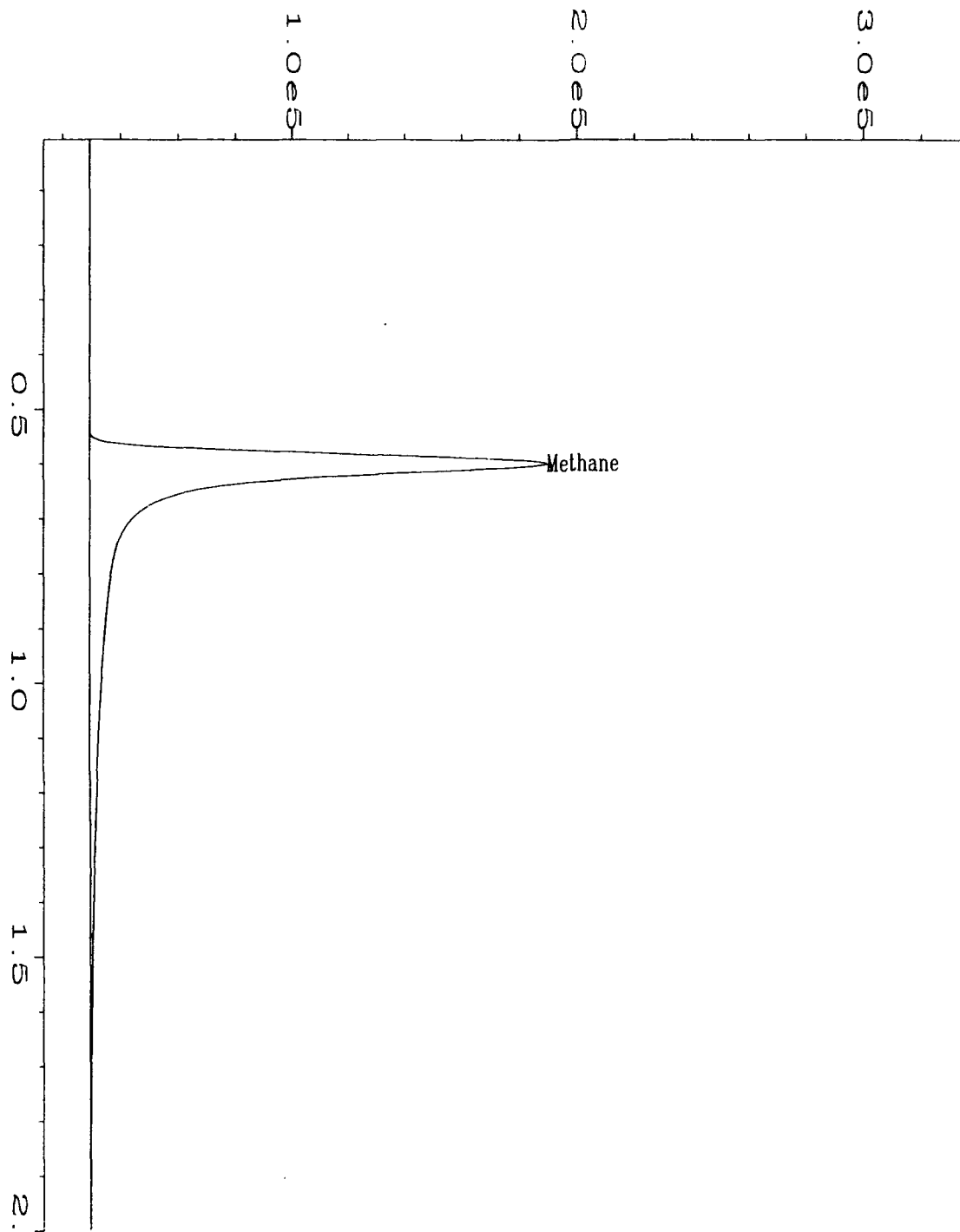
Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved

AF1829.XLS



ata File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\008R0101.D	Page Number	: 1
operator	: Bill Michener	Vial Number	: 8
nstrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1829-02;50	Sequence Line	: 1
Time Bar Code:		Instrument Method:	GAS.MTH
quired on	: 14 Jun 96 11:26 AM	Analysis Method	: GAS0614.MTH
Report Created on:	17 Jun 96 10:40 AM	Sample Amount	: 0
ast Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
ultiplier	: 1		
Sample Info	: CPT-5D;Water		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: CPT-5S	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1829-03	Lab Work Order	: 96-1829
Date Sampled	: 6/4/96	Dilution Factor	: 50.00
Date Received	: 6/5/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614009

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.7	0.1

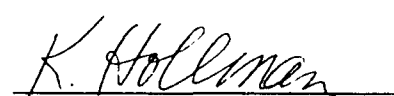
Temperature	: 82.9 F	Saturation Meth	: 0.1623
Amount Injected	: 0.01 ml	Concentration Meth	: 0.50138447
Total Volume of Sample	: 43 ml	Concentration in Head Space	
Head space created	: 4 ml		
Methane Area	: 75.528 ug		

Atomic weight(Methane) : 16 g

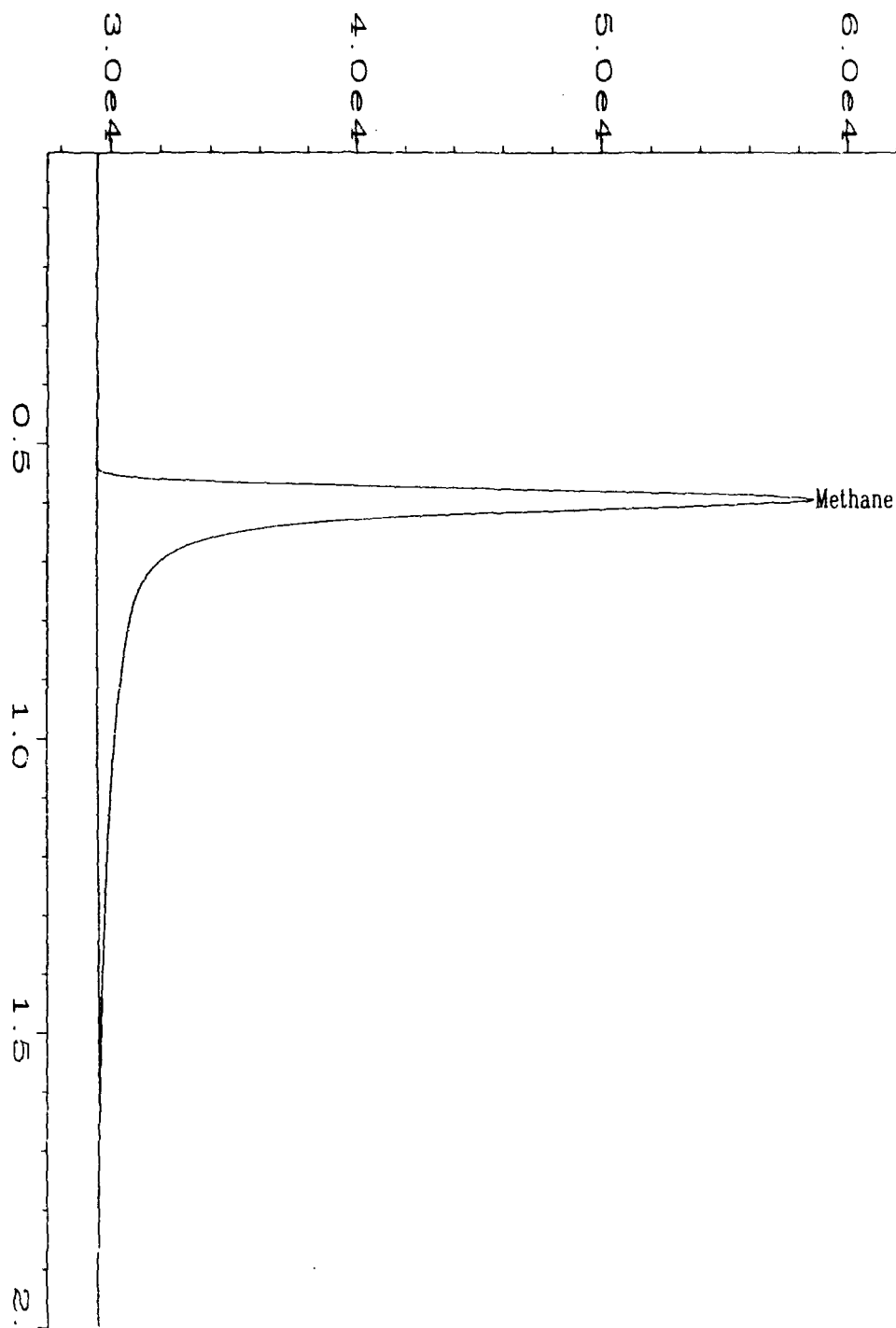
Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved

AF1829.XLS



ta File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\009R0101.D	Page Number	: 1
erator	: Bill Michener	Vial Number	: 9
strument	: ALCGAS	Injection Number	: 1
mple Name	: 96-1829-03;50	Sequence Line	: 1
Time Bar Code:		Instrument Method	: GAS.MTH
quired on	: 14 Jun 96 11:29 AM	Analysis Method	: GAS0614.MTH
port Created on:	: 17 Jun 96 10:40 AM	Sample Amount	: 0
st Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
ltiplier	: 1		
mple Info	: CPT-5S;Water		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: CPT-4D	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1829-04	Lab Work Order	: 96-1829
Date Sampled	: 6/4/96	Dilution Factor	: 50.00
Date Received	: 6/5/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614010

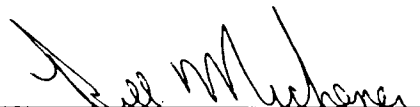
Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	3.4	0.1

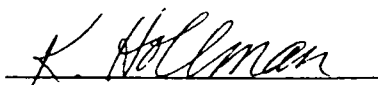
Temperature	: 83 F	Saturation Meth	: 0.8257
Amount Injected	: 0.01 ml	Concentration	
Total Volume of Sample	: 43 ml	Concentration Meth	: 2.54897787
Head space created	: 4 ml	in Head Space	
Methane Area	: 384.046 ug		

Atomic weight(Methane) : 16 g

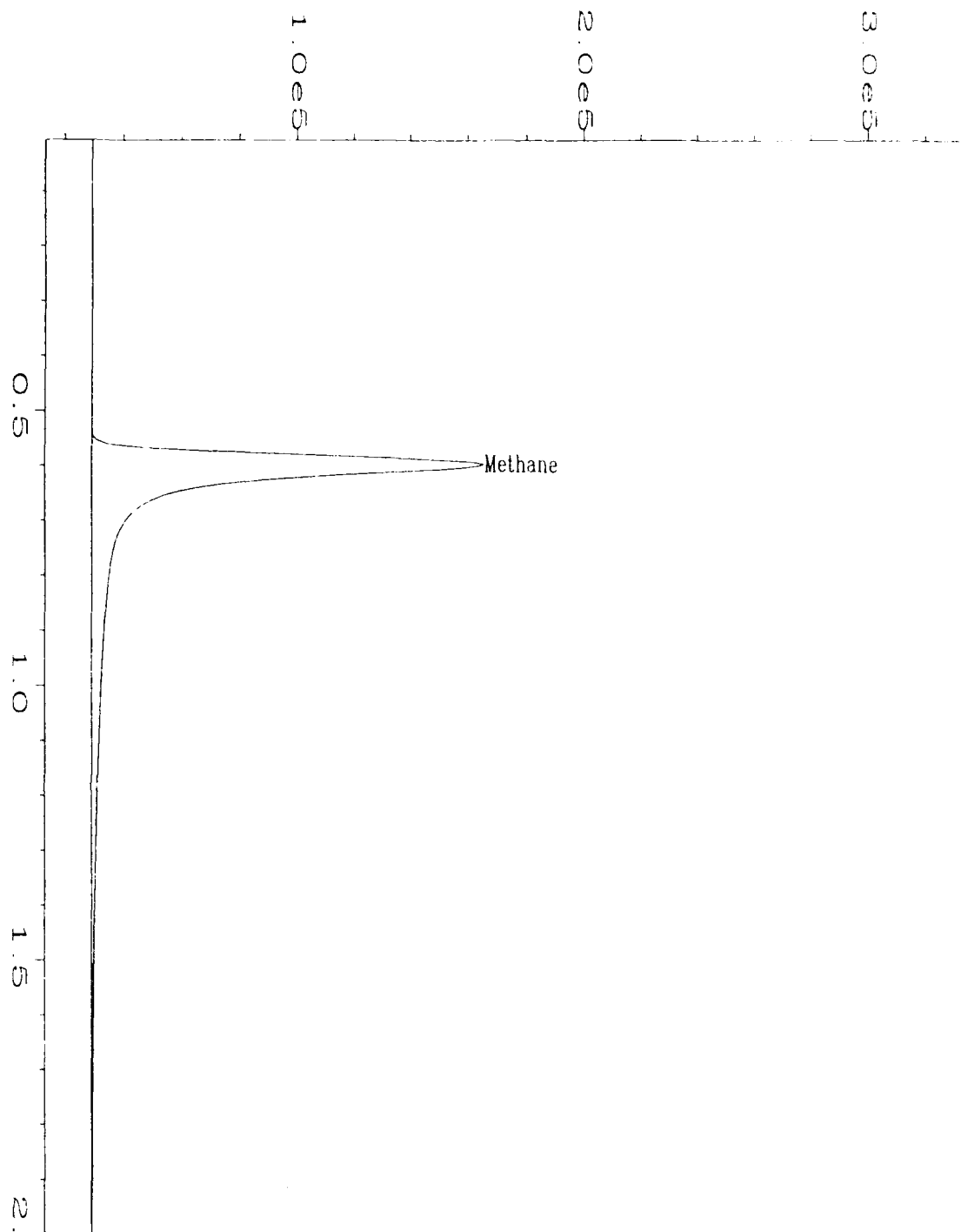
Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved

AF1829.XLS



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\010R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 10
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1829-04;50	Sequence Line	: 1
Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 14 Jun 96 11:31 AM	Analysis Method	: GAS0614.MTH
Report Created on	: 17 Jun 96 10:40 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-4D;Water		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: CPT-4D	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1829-04Dup	Lab Work Order	: 96-1829
Date Sampled	: 6/4/96	Dilution Factor	: 50.00
Date Received	: 6/5/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614011

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	3.5	0.1

Temperature	: 82.9 F	Saturation	Meth	0.8449
Amount Injected	: 0.01 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	2.60870883
Head space created	: 4 ml	in Head Space		
Methane Area	: 392.973 ug			

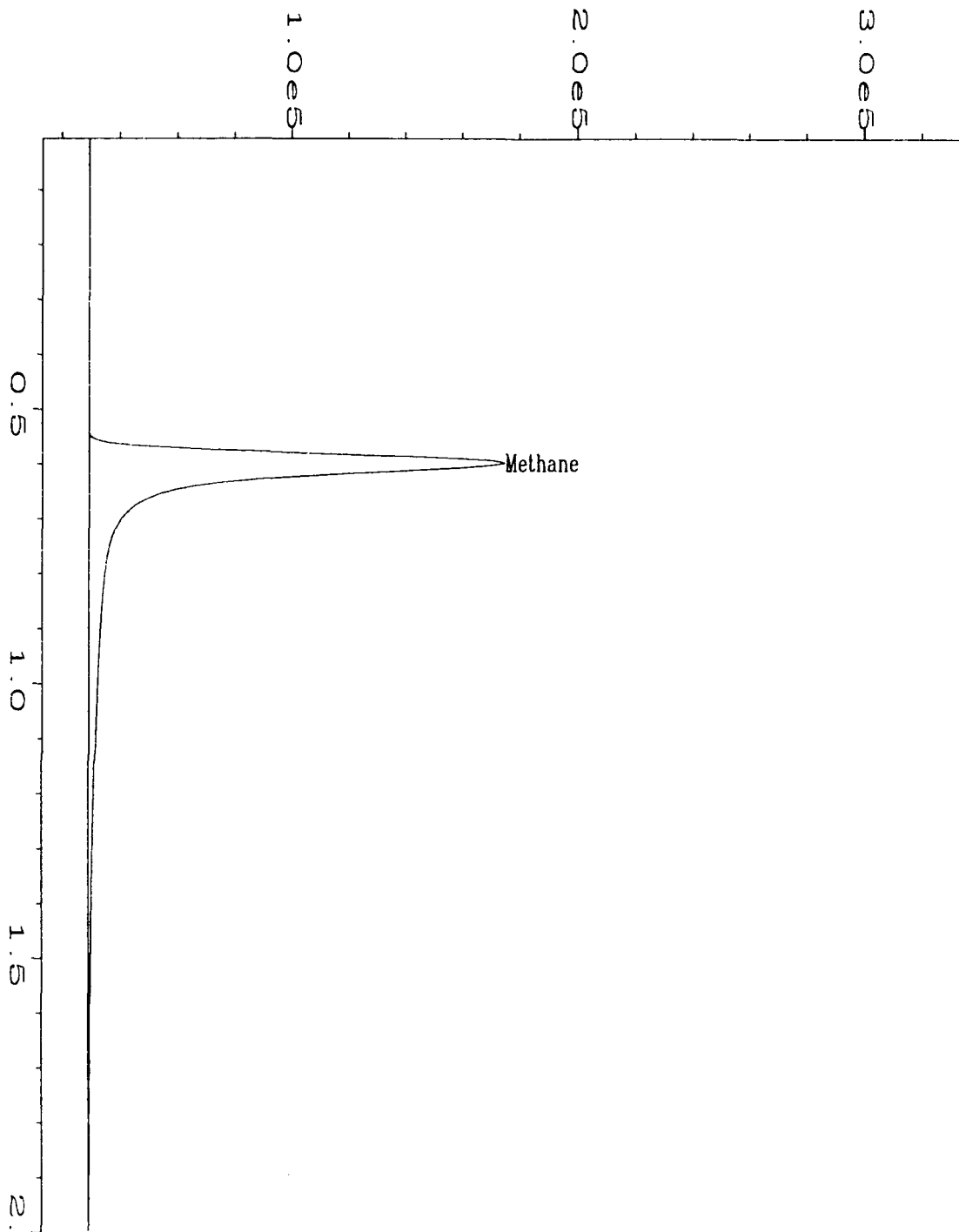
Atomic weight(Methane) : 16 g

Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\011R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 11
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1829-04Dup;50	Sequence Line	: 1
Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 14 Jun 96 11:38 AM	Analysis Method	: GAS0614.MTH
Report Created on:	17 Jun 96 10:40 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-4D;Water		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: MW-13	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1829-05	Lab Work Order	: 96-1829
Date Sampled	: 6/4/96	Dilution Factor	: 1.00
Date Received	: 6/5/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614012

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.083	0.002

Temperature	: 82.7 F	Saturation	Meth	: 0.0203
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	: 0.06270229
Head space created	: 4 ml	in Head Space		
Methane Area	: 472.096 ug			

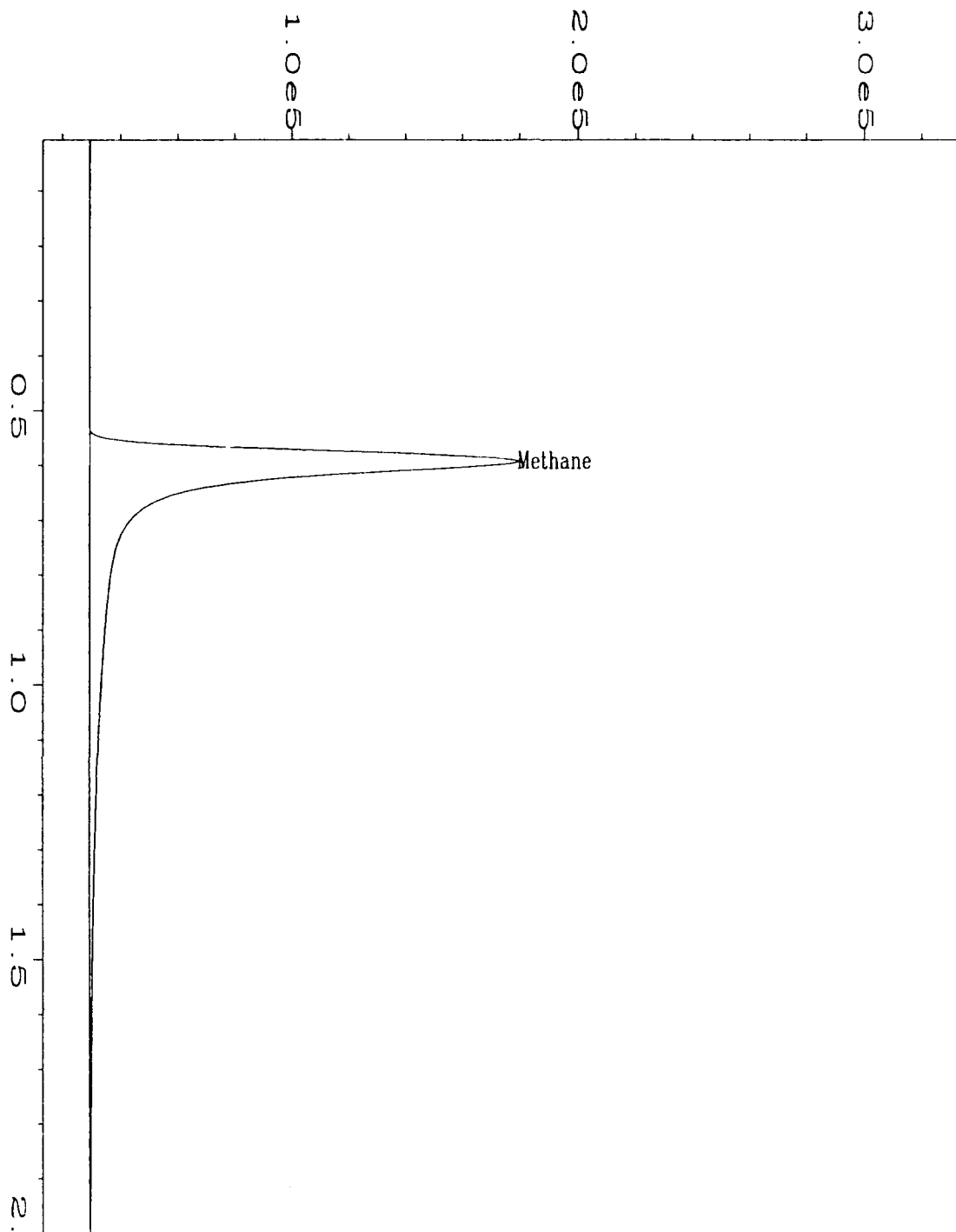
Atomic weight(Methane) : 16 g

Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\012R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 12
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1829-05;1	Sequence Line	: 1
Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 14 Jun 96 11:42 AM	Analysis Method	: GAS0614.MTH
Report Created on:	17 Jun 96 10:40 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-13;Water		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: MW-12	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1829-06	Lab Work Order	: 96-1829
Date Sampled	: 6/4/96	Dilution Factor	: 1.00
Date Received	: 6/5/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614013

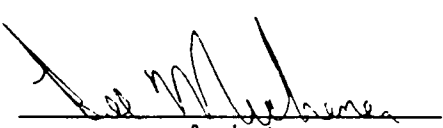
Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.002

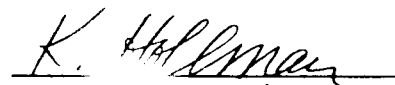
Temperature	: 82.9 F	Saturation	Meth	:
Amount Injected	: 0.5 ml	Concentration		:
Total Volume of Sample	: 43 ml	Concentration	Meth	:
Head space created	: 4 ml	in Head Space		:
Methane Area	: 0 ug			:

Atomic weight(Methane) : 16 g

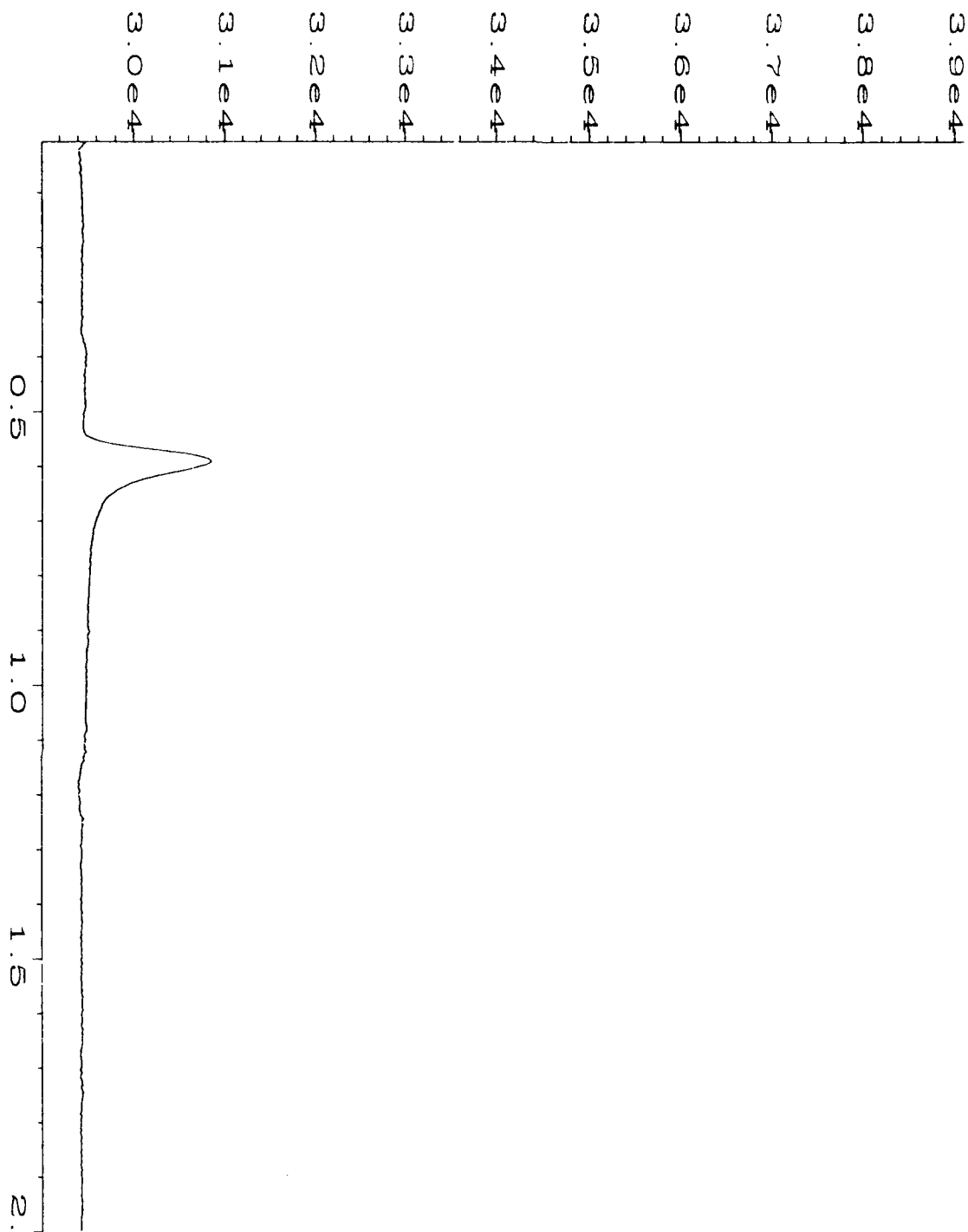
Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved

AF1829.XLS



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\013R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 13
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1829-06;1	Sequence Line	: 1
Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 14 Jun 96 11:50 AM	Analysis Method	: GAS0614.MTH
Report Created on	: 17 Jun 96 10:40 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-12;Water		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: CPT-20S	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1829-07	Lab Work Order	: 96-1829
Date Sampled	: 6/4/96	Dilution Factor	: 1.00
Date Received	: 6/5/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614014

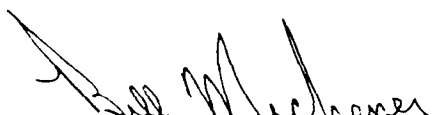
Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.002

Temperature	: 82.7 F	Saturation	Meth
Amount Injected	: 0.5 ml	Concentration	
Total Volume of Sample	: 43 ml	Concentration	Meth
Head space created	: 4 ml	in Head Space	
Methane Area	: 0 ug		

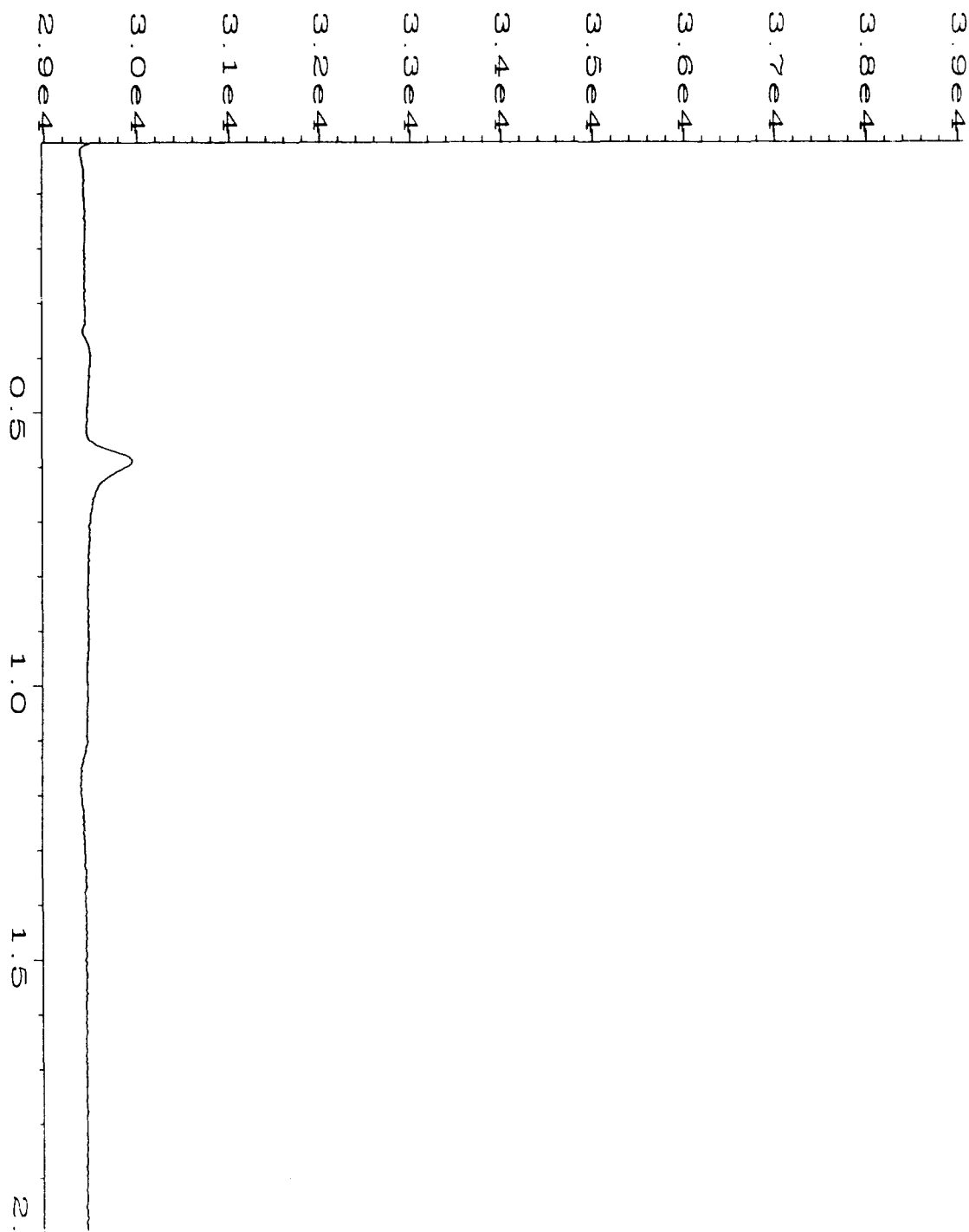
Atomic weight(Methane) : 16 g

Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\014R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 14
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1829-07;1	Sequence Line	: 1
Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 14 Jun 96 11:55 AM	Analysis Method	: GAS0614.MTH
Report Created on	: 17 Jun 96 10:40 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-20S;Water		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: CPT-19S	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1829-08	Lab Work Order	: 96-1829
Date Sampled	: 6/4/96	Dilution Factor	: 1.00
Date Received	: 6/5/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614016

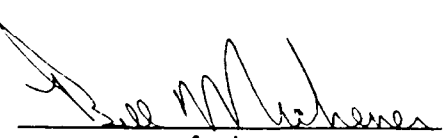
Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.063	0.002

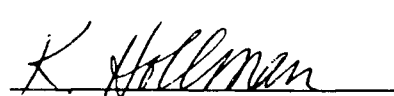
Temperature	: 82.6 F	Saturation	Meth	0.0153
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.047305196
Head space created	: 4 ml	in Head Space		
Methane Area	: 356.103 ug			

Atomic weight(Methane) : 16 g

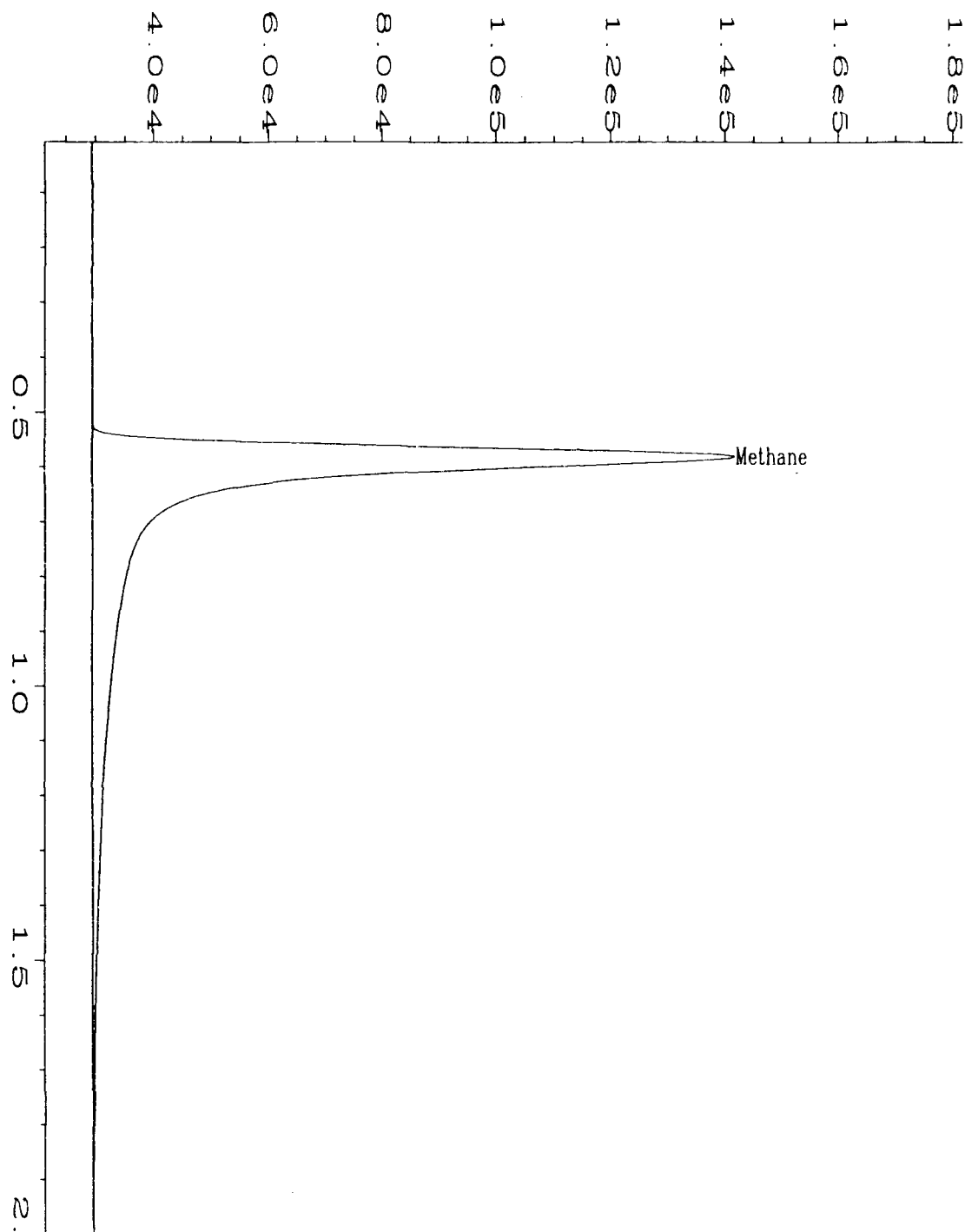
Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved

AF1829.XLS



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\016R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 16
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1829-08;1	Sequence Line	: 1
Time Bar Code		Instrument Method	: GAS.MTH
Acquired on	: 14 Jun 96 12:05 PM	Analysis Method	: GAS0614.MTH
Report Created on	: 17 Jun 96 10:40 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-19S;Water		

EVERGREEN ANALYTICAL, Inc.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Anion Report

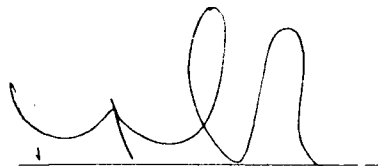
Date Sampled	: 6/04/96	Client Project ID.	: Madison ANGB 729691.09110
Date Received	: 6/05/96	Lab Project Number	: 96-1829
Date Prepared	: 6/05/96	Method	: EPA 300.0
Date Analyzed	: 6/05/96	Detection Limit	: 0.25 mg/L

Evergreen Sample #	Client Sample ID.	Matrix	Chloride mg/L	Dilution Factor
96-1829-01	CPT-1D	Water	16.0	1
96-1829-02	CPT-5D	Water	12.7	1
96-1829-03	CPT-5S	Water	33.4	1
96-1829-04	CPT-4D	Water	9.5	1
96-1829-05	MW-13	Water	3.7	1
96-1829-06	MW-12	Water	6.6	1
96-1829-07	CPT-20S	Water	4.0	1
96-1829-08	CPT-19S	Water	40.7	10
Method Blank	(6/05/96)		<0.25	

Quality Assurance

		<u>Spike Amount</u> (mg/L)	<u>Sample Result</u> (mg/L)	<u>Spike Result</u> (mg/L)	<u>% Recovery</u>
96-1829-01	CPT-1D Matrix Spike	10.0	16.0	25.6	95
96-1829-01	CPT-1D Matrix Spike Dup	10.0	16.0	25.3	93
MS/MSD	RPD				2.4


Analyst pm


Approved

EVERGREEN ANALYTICAL, Inc.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Anion Report

Date Sampled	: 6/04/96	Client Project ID.	: 729691.09110	Madison ANGB
Date Received	: 6/05/96	Lab Project Number	: 96-1829	
Date Prepared	: 6/05/96	Method	: EPA 300.0	
Date Analyzed	: 6/05/96	Detection Limit	: 0.076 mg/L	

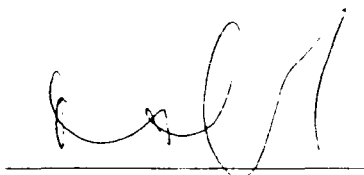
Evergreen Sample #	Client Sample ID.	Matrix	Nitrite-N mg/L	Dilution Factor
96-1829-01	CPT-1D	Water	<0.076	1
96-1829-02	CPT-5D	Water	<0.076	1
96-1829-03	CPT-5S	Water	<0.076	1
96-1829-04	CPT-4D	Water	<0.076	1
96-1829-05	MW-13	Water	<0.076	1
96-1829-06	MW-12	Water	<0.076	1
96-1829-07	CPT-20S	Water	<0.076	1
96-1829-08	CPT-19S	Water	<0.076	1
Method Blank	(6/05/96)		<0.076	

Quality Assurance *

		Spike Amount (mg/L)	Sample Result (mg/L)	Spike Result (mg/L)	% Recovery
96-1829-01	CPT-1D Matrix Spike	10.0	<0.25	9.7	97
96-1829-01	CPT-1D Matrix Spike Dup	10.0	<0.25	9.5	95
MS/MSD	RPD				2.9

* = Quality assurance results reported as Nitrite (NO₂).


Analyst pm


Approved

EVERGREEN ANALYTICAL, Inc.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Anion Report

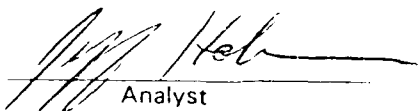
Date Sampled	: 6/04/96	Client Project ID.	: 729691.09110
Date Received	: 6/05/96	Lab Project Number	: 96-1829
Date Prepared	: 6/05/96	Method	: EPA 300.0
Date Analyzed	: 6/05/96	Detection Limit	: 0.056 mg/L

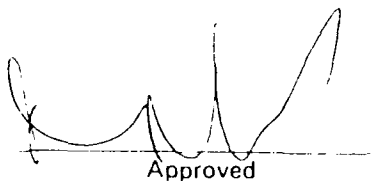
Evergreen Sample #	Client Sample ID.	Matrix	Nitrate-N mg/L	Dilution Factor
96-1829-01	CPT-1D	Water	0.48	1
96-1829-02	CPT-5D	Water	<0.056	1
96-1829-03	CPT-5S	Water	0.60	1
96-1829-04	CPT-4D	Water	0.084	1
96-1829-05	MW-13	Water	2.5	1
96-1829-06	MW-12	Water	33.1	10
96-1829-07	CPT-20S	Water	12.6	10
96-1829-08	CFT-19S	Water	0.09	1
Method Blank	(6/05/96)		<0.056	

Quality Assurance *

		Spike Amount (mg/L)	Sample Result (mg/L)	Spike Result (mg/L)	% Recovery
96-1829-01	CPT-1D Matrix Spike	10.0	2.1	11.2	91
96-1829-01	CPT-1D Matrix Spike Dup	10.0	2.1	10.9	88
MS/MSD	RPD				3.7

* = Quality assurance results reported as Nitrate (NO₃).


Analyst


Approved

EVERGREEN ANALYTICAL, Inc.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Anion Report

Date Sampled	: 6/04/96	Client Project ID.	: 729691.09110
Date Received	: 6/05/96	Lab Project Number	: 96-1829
Date Prepared	: 6/05/96	Method	: EPA 300.0
Date Analyzed	: 6/05/96	Detection Limit	: 0.25 mg/L

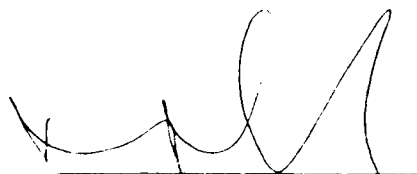
Madison ANGB

Evergreen Sample #	Client Sample ID.	Matrix	Sulfate mg/L	Dilution Factor
96-1829-01	CPT-1D	Water	33.6	1
96-1829-02	CPT-5D	Water	0.51	1
96-1829-03	CPT-5S	Water	17.5	1
96-1829-04	CPT-4D	Water	2.2	1
96-1829-05	MW-13	Water	8.3	1
96-1829-06	MW-12	Water	48.7	10
96-1829-07	CPT-20S	Water	31.1	1
96-1829-08	CPT-19S	Water	30.8	1
Method Blank	(6/05/96)		<0.25	

Quality Assurance

		Spike Amount (mg/L)	Sample Result (mg/L)	Spike Result (mg/L)	% Recovery
96-1829-01	CPT-1D Matrix Spike	10.0	33.6	45.2	116
96-1829-01	CPT-1D Matrix Spike Dup	10.0	33.6	45.0	114
MS/MSD	RPD				1.7


Analyst *Am*


Approved

EVERGREEN ANALYTICAL, Inc.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Analysis Report

Date Sampled	: 6/4/96	Client Project ID.	: 729691.09110
Date Received	: 6/5/96	Lab Project Number	: 96-1829
Date Prepared	: 6/6/96	Method	: EPA 310.1
Date Analyzed	: 6/6/96	Detection Limit	: 5.0 mg CaCO ₃ /L

Evergreen Sample #	Client Sample ID.	Matrix	Total Alkalinity (mg CaCO ₃ /L)	Dilution Factor
96-1829-04	CPT-4D	Water	398	1
96-1829-05	MW-13	Water	333	1
96-1829-08	CPT-19S	Water	528	1

Method Blank	(6/6/96)	<5.0

Quality Assurance

Reference	True Value (mgCaCO ₃ /L)	Result (mgCaCO ₃ /L)	% Recovery
ERA Alkalinity Lot 0814-95-02	120	124	103



Analyst



Approved

Evergreen Analytical, Inc.

96-1849

WORK ORDER Summary

07-Jun-96

Report To: Dave Moutoux

Client Project ID: MADISON ANGB

Parsons Engineering Science
1700 Broadway Suite 900
Denver, CO 80290

Phone: (303) 831-8100

FAX: (303) 831-8208

Comments:

Sample ID	Client Sample ID	Analysis	#	Matrix	Loc	Collection	Received	Due	HT
96-1849-01H	MW-11	ANIONS by ION CHROMATOGRAPHY Cl,NO2,NO3,SO4		Water	CL2	05-Jun-96	06-Jun-96	20-Jun-96	07-Jun-96
96-1849-02H	MW-9	ANIONS by ION CHROMATOGRAPHY Cl,NO2,NO3,SO4						20-Jun-96	07-Jun-96
96-1849-03H	MW-10	ANIONS by ION CHROMATOGRAPHY Cl,NO2,NO3,SO4						20-Jun-96	07-Jun-96
96-1849-04H	MW-30	ANIONS by ION CHROMATOGRAPHY Cl,NO2,NO3,SO4						20-Jun-96	07-Jun-96
96-1849-05H	MW-8	ANIONS by ION CHROMATOGRAPHY Cl,NO2,NO3,SO4						20-Jun-96	07-Jun-96
96-1849-06H	MW-22S	ANIONS by ION CHROMATOGRAPHY Cl,NO2,NO3,SO4						20-Jun-96	07-Jun-96
96-1849-07F	MW-22D	ANIONS by ION CHROMATOGRAPHY Cl,NO2,NO3,SO4						20-Jun-96	07-Jun-96
96-1849-08H	MW-32	ANIONS by ION CHROMATOGRAPHY Cl,NO2,NO3,SO4						20-Jun-96	07-Jun-96
96-1849-09H	MW-17	ANIONS by ION CHROMATOGRAPHY Cl,NO2,NO3,SO4						20-Jun-96	07-Jun-96
96-1849-10H	MW-25	ANIONS by ION CHROMATOGRAPHY Cl,NO2,NO3,SO4						20-Jun-96	07-Jun-96
96-1849-11H	CPT-18S	ANIONS by ION CHROMATOGRAPHY Cl,NO2,NO3,SO4						20-Jun-96	07-Jun-96
96-1849-01A	MW-11	BTEX + TVPH (Parsons List)			2			11-Jun-96	19-Jun-96
96-1849-02A	MW-9	BTEX + TVPH (Parsons List)						11-Jun-96	19-Jun-96
96-1849-03A	MW-10	BTEX + TVPH (Parsons List)						11-Jun-96	19-Jun-96
96-1849-04A	MW-30	BTEX + TVPH (Parsons List)						11-Jun-96	19-Jun-96
96-1849-05A	MW-8	BTEX + TVPH (Parsons List)						11-Jun-96	19-Jun-96
96-1849-06A	MW-22S	BTEX + TVPH (Parsons List)						11-Jun-96	19-Jun-96
96-1849-07A	MW-22D	BTEX + TVPH (Parsons List)						11-Jun-96	19-Jun-96
96-1849-08A	MW-32	BTEX + TVPH (Parsons List)						11-Jun-96	19-Jun-96

= Special list. See sample comments or test information.

HT = Holding Time expiration date.

Page 1 of 2

07/11/96

Evergreen Analytical, Inc.

96-1849

WORK ORDER Summary

07-Jun-96

Report To: Dave Moutoux

Client Project ID: MADISON ANGB

Parsons Engineering Science
1700 Broadway Suite 900
Denver, CO 80290

Phone: (303) 831-8100
FAX: (303) 831-8208

Comments:

Sample ID	Client Sample ID	Analysis	#	Matrix	Loc	Collection	Received	Due	HT
96-1849-09A	MW-17	BTEX + TVPH (Parsons List)		Water	2	05-Jun-96	06-Jun-96	11-Jun-96	19-Jun-96
96-1849-10A	MW-25	BTEX + TVPH (Parsons List)						11-Jun-96	19-Jun-96
96-1849-11A	CPT-18S	BTEX + TVPH (Parsons List)						11-Jun-96	19-Jun-96
96-1849-12A	Field Blank	BTEX + TVPH (Parsons List)						11-Jun-96	19-Jun-96
96-1849-01E	MW-11	Methane						20-Jun-96	19-Jun-96
96-1849-02E	MW-9	Methane						20-Jun-96	19-Jun-96
96-1849-03E	MW-10	Methane						20-Jun-96	19-Jun-96
96-1849-04E	MW-30	Methane						20-Jun-96	19-Jun-96
96-1849-05E	MW-8	Methane						20-Jun-96	19-Jun-96
96-1849-06E	MW-22S	Methane						20-Jun-96	19-Jun-96
96-1849-07D	MW-22D	Methane						20-Jun-96	19-Jun-96
96-1849-08E	MW-32	Methane						20-Jun-96	19-Jun-96
96-1849-09E	MW-17	Methane						20-Jun-96	19-Jun-96
96-1849-10E	MW-25	Methane						20-Jun-96	19-Jun-96
96-1849-11E	CPT-18S	Methane						20-Jun-96	19-Jun-96
96-1849-02I	MW-9	TEPH (JP-4)			CL2			11-Jun-96	19-Jun-96
96-1849-05I	MW-8	TEPH (JP-4)						11-Jun-96	19-Jun-96
96-1849-03I	MW-10	TOTAL ALKALINITY						20-Jun-96	19-Jun-96
96-1849-04I	MW-30	TOTAL ALKALINITY						20-Jun-96	19-Jun-96
96-1849-05I	MW-8	TOTAL ALKALINITY						20-Jun-96	19-Jun-96
96-1849-10I	MW-25	TOTAL ALKALINITY						20-Jun-96	19-Jun-96

= Spec
HT = Time
See sample comments or test information.
Time expiration date.

Evergreen Analytical Inc.

Analytical Inc.
4036 Youngfield St.
Wheat Ridge, Colorado 80033
(303) 425-6021
FAX (303) 425-6854
(800) 845-7400

PERSONS, ED
1740 Broadway SE 920
DENVER, CO ZIP 80202
PHONE # 303 831 8160 FAX #

COMPANY WILSON, S
ADDRESS 1700 Broadway 55900
CITY DENVER STATE CO ZIP 80202
PHONE # 303 831 8160 FAX #

FAX # 831-8208

Sampler Name: Debra Hoffer
(signature) Debra Hoffer
(print) Debra Hoffer

Evergreen Analytical Cooler No. 277
Cooler Received 277

Please PRINT

all information:

CLIENT
SAMPLE
IDENTIFICATION

[illegible][illegible]

Instructions: * M W S B on T W T + on C H A 1. a 1 L A

* Please contribute for ~~Maryland~~ 2nd and 3rd ^{Maryland} cold Boston.

Discrepand reagent for Mn^{2+} analysis per DuPont Montow 6596 am

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	10.2.12 11.45	<i>[Signature]</i>	10.2.12 11.45	<i>[Signature]</i>	10.2.12 11.45	<i>[Signature]</i>	10.2.12 11.45

Page 2 of 2

Evergreen Analytical Inc.

4036 Youngfield St.
Wheat Ridge, Colorado 80033
(303) 425-6021
FAX (303) 425-6854
(800) 845-7400

COMPANY _____
ADDRESS _____
CITY _____ STATE _____ ZIP _____
PHONE # _____ FAX # _____

CLIENT CONTACT (print) SAA
PROJECT I.D. _____
EAL QUOTE # _____ PO # _____
TURNAROUND REQUIRED* ☐ STD (2 wks) ☐ STD UST (3 day)

TURNAROUND REQUIRED* ☐ STD (2 wks) ☐ STD UST (3 day)
☐ Other (Specify) _____

*expedited turnaround subject to additional fee

Sampler Name: Sadhu, Jyoti
 (signature)
Sadhu, Jyoti
 (print)
 Evergreen Analytical Cooler No. 277
 Cooler Received

Please PRINT

all information:

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME

DATE	SAMPLED	TIME

[illegible]

Instructions:

11-14-19

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number	: MW-8	Client Project Number	: Madison ANGB
Lab Sample Number	: 96-1849-05	Lab Work Order	: 96-1849
Date Sampled	: 6/5/96	Matrix	: WATER
Date Received	: 6/6/96	Lab File Number(s)	: TVBX0605038
Date Prepared	: 6/6/96	Method Blank	: MB060696-W
FID Dilution Factor	: 100		
PID Dilution Factor	: 100		

Compound Name	Gas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/6/96	23	10	mg/L
Benzene	71-43-2	6/6/96	4900	40	ug/L
Toluene	108-88-3	6/6/96	U	40	ug/L
Chlorobenzene	108-90-7	6/6/96	U	40	ug/L
Ethyl Benzene	100-41-4	6/6/96	160	40	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/6/96	2300	40	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/6/96	230	40	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/6/96	600	40	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/6/96	400	40	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/6/96	98	50	ug/L
PID Surrogate Recovery:		96%		70%-130%	(Limits)
PID Surrogate Recovery:		105%		70%-128%	(Limits)

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

Comments:

QUALIFIERS and DEFINITIONS:

E = Extrapolated value. Value exceeds calibration range.

U = Compound analyzed for, but not detected.

B = Compound also found in the blank.

J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.

RL = Reporting Limit.

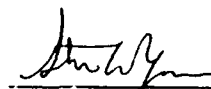
NA = Not Available/Not Applicable.

PID = Photoionization detector.

FID = Flame ionization detector.

TVH = Total Volatile Hydrocarbons.


Analyst


Approved

Evergreen Analytical Sample Receipt/Check-in Record

Date & Time Rec'd: 11:00 6/6/96 Shipped Via: Fed Ex

(Airbill # if applicable)

Client : Parsons

Client Project ID(s): Madison ANGB

EAL Project #(s): 96-1849 EAL Cooler(s): (Y) N

Cooler# 277

Ice packs (Y) N Y N Y N Y N Y N

Temperature °C 12

Y N N/A

- Custody seal(s) present:
Seals on cooler intact
Seals on bottle intact

X
X
X

- Chain of Custody present:

X

- Samples Radioactive: (Comment on COC if >0.5mR/h)

X

- Containers broken or leaking: (Comment on COC if Y)

X

- Containers labeled:

X

- COC agrees w/ bottles received: (Comment on COC if N)

X

- COC agrees w/ labels: (Comment on COC if N)

X

- Headspace in vials-waters only: (Comment on COC if Y)

X

- VOA samples preserved:

X

- pH measured on metals, cyanide or phenolics*:

X

List discrepancies

*Non-EAL provided containers only, water samples only.

- Metal samples present:

X

Total _____, Dissolved _____, TCLP _____

D or PD to be filtered:

X

T,TR,D,PD to be Preserved:

X

- Short holding times:

X

Specify parameters

- Multi-phase sample(s) present:

X

- COC signed w/ date/time:

X

Comments:

(Additional comments on back)

Custodian Signature/Date: Master Kancil 6-6-96

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report
Method Blank Report

Method Blank Number : MB060696-W Client Project Number : Madison ANGB
Date Prepared : 6/5/96 Lab Work Order : 96-1849
Dilution Factor : 1.0 Matrix : WATER
Lab File Number : TVBX0605030

Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/6/96	U	0.1	mg/L
Benzene	71-43-2	6/6/96	U	0.4	ug/L
Toluene	108-88-3	6/6/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/6/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/6/96	U	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/6/96	U	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/6/96	U	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/6/96	U	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/6/96	U	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/6/96	U	0.5	ug/L
D Surrogate Recovery: 98% 70%-130% (Limits)					
PID Surrogate Recovery: 106% 70%-128% (Limits)					

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

Comments:

QUALIFIERS and DEFINITIONS:

E = Extrapolated value. Value exceeds calibration range.

U = Compound analyzed for, but not detected.

B = Compound also found in the blank.

J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.

RL = Reporting Limit.

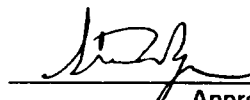
NA = Not Available/Not Applicable.

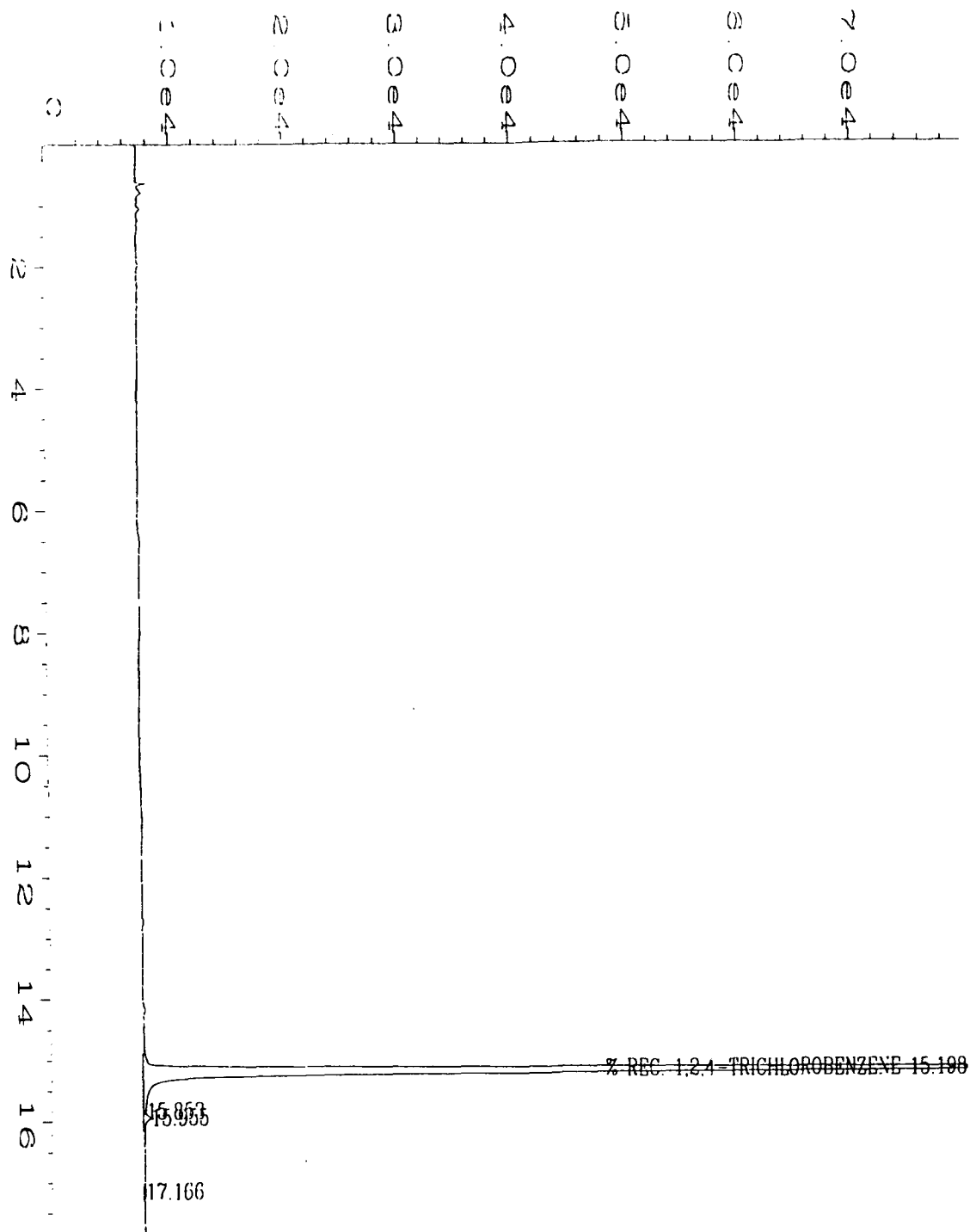
PID = Photoionization detector.

FID = Flame ionization detector.

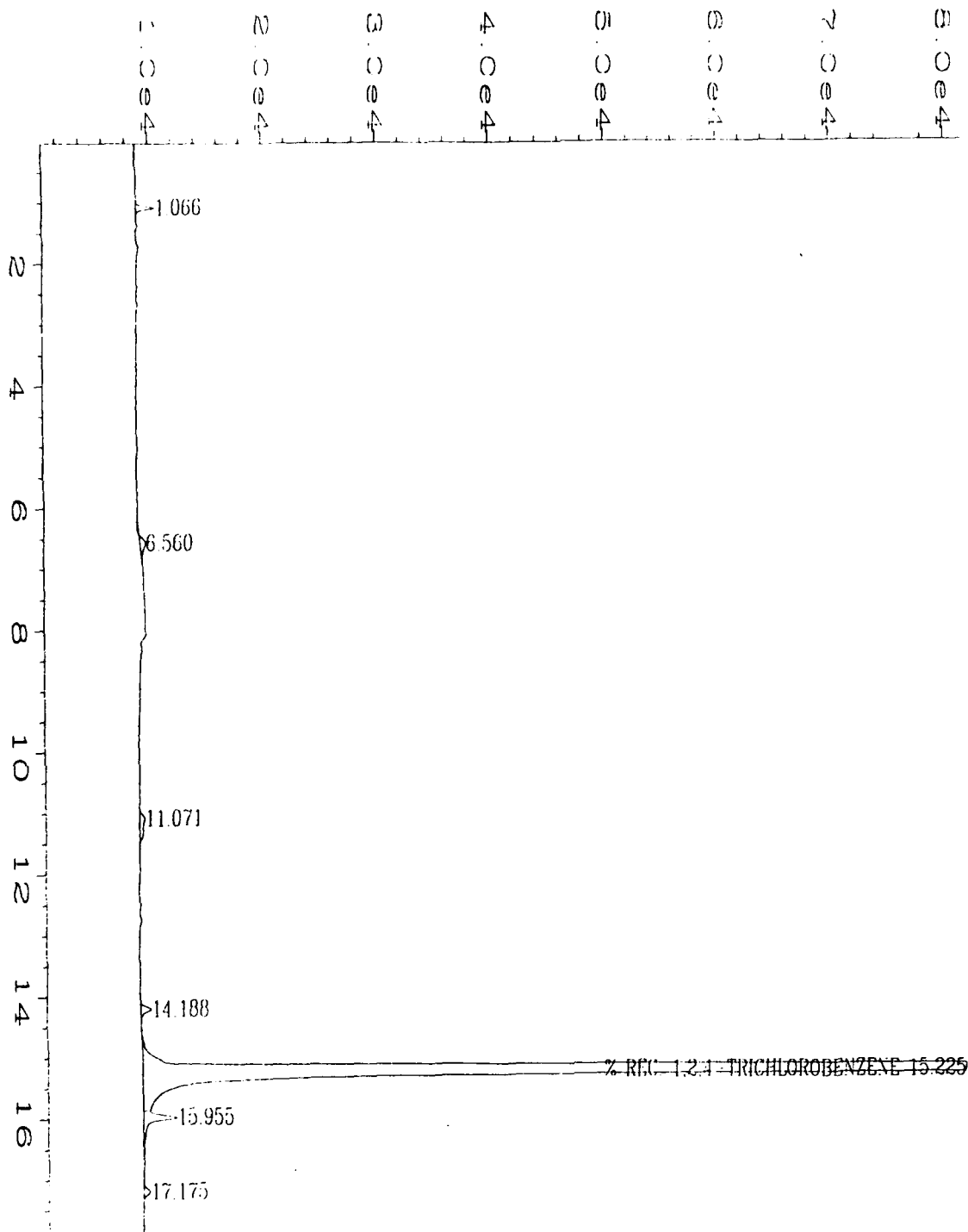
TVH = Total Volatile Hydrocarbons.


Analyst


Approved



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\030F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 30
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: MB060696-W;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TVW0409B.MTH
Acquired on	: 06 Jun 96 06:12 AM	Analysis Method	: TVW0409B.MTH
Report Created on:	06 Jun 96 06:31 AM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: WATER BLANK		



ata File Name	: C:\HPCHEM\2\DATA\TVBX0605\030R0101.D	Page Number	: 1
perator	: KAPRIE S. HOLLMAN	Vial Number	: 30
nstrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: MB060696-W;1	Sequence Line	: 1
Time Bar Code:		Instrument Method	: TVW0409B.MTH
quired on	: 06 Jun 96 06:12 AM	Analysis Method	: BXW0601.MTH
Report Created on:	06 Jun 96 06:31 AM	Sample Amount	: 0
ast Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
ultiplier	: 1		
ample Info	: WATER BLANK		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number : MW-11 Client Project Number : Madison ANGB
Lab Sample Number : 96-1849-01 Lab Work Order : 96-1849
Date Sampled : 6/5/96 Matrix : WATER
Date Received : 6/6/96 Lab File Number(s) : TVBX0605047
Date Prepared : 6/6/96 Method Blank : MB060696-W
FID Dilution Factor : 1.0
PID Dilution Factor : 1.0

Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/7/96	U	0.1	mg/L
Benzene	71-43-2	6/7/96	U	0.4	ug/L
Toluene	108-88-3	6/7/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/7/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/7/96	U	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/7/96	U	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/7/96	U	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/7/96	U	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/7/96	U	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/7/96	U	0.5	ug/L
FID Surrogate Recovery:		96%		70%-130%	(Limits)
PID Surrogate Recovery:		105%		70%-128%	(Limits)

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

Comments:

QUALIFIERS and DEFINITIONS:

E = Extrapolated value. Value exceeds calibration range.

U = Compound analyzed for, but not detected.

B = Compound also found in the blank.

J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.

RL = Reporting Limit.

NA = Not Available/Not Applicable.

PID = Photoionization detector.

FID = Flame ionization detector.

TVH = Total Volatile Hydrocarbons.

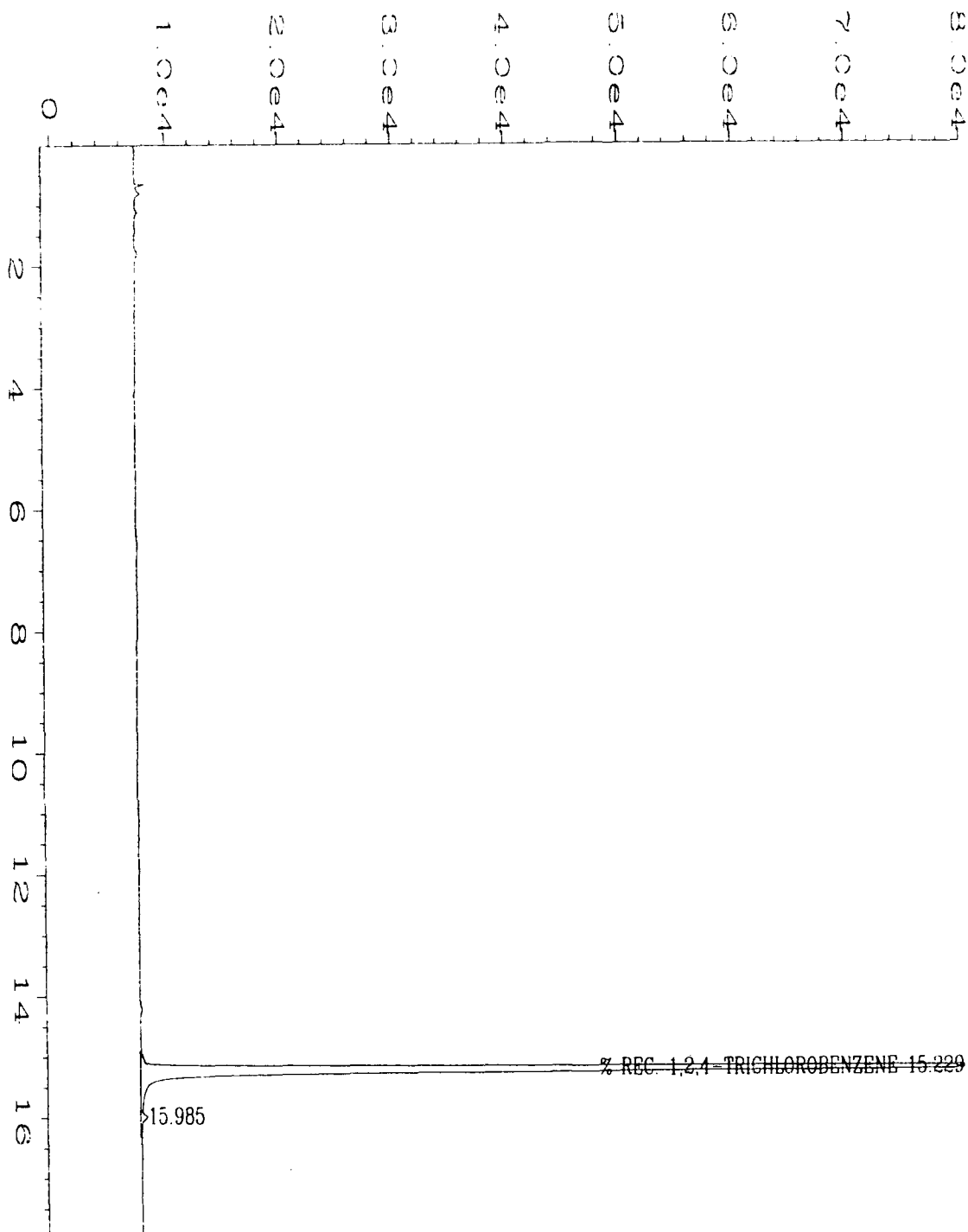
K. Hollman

Analyst

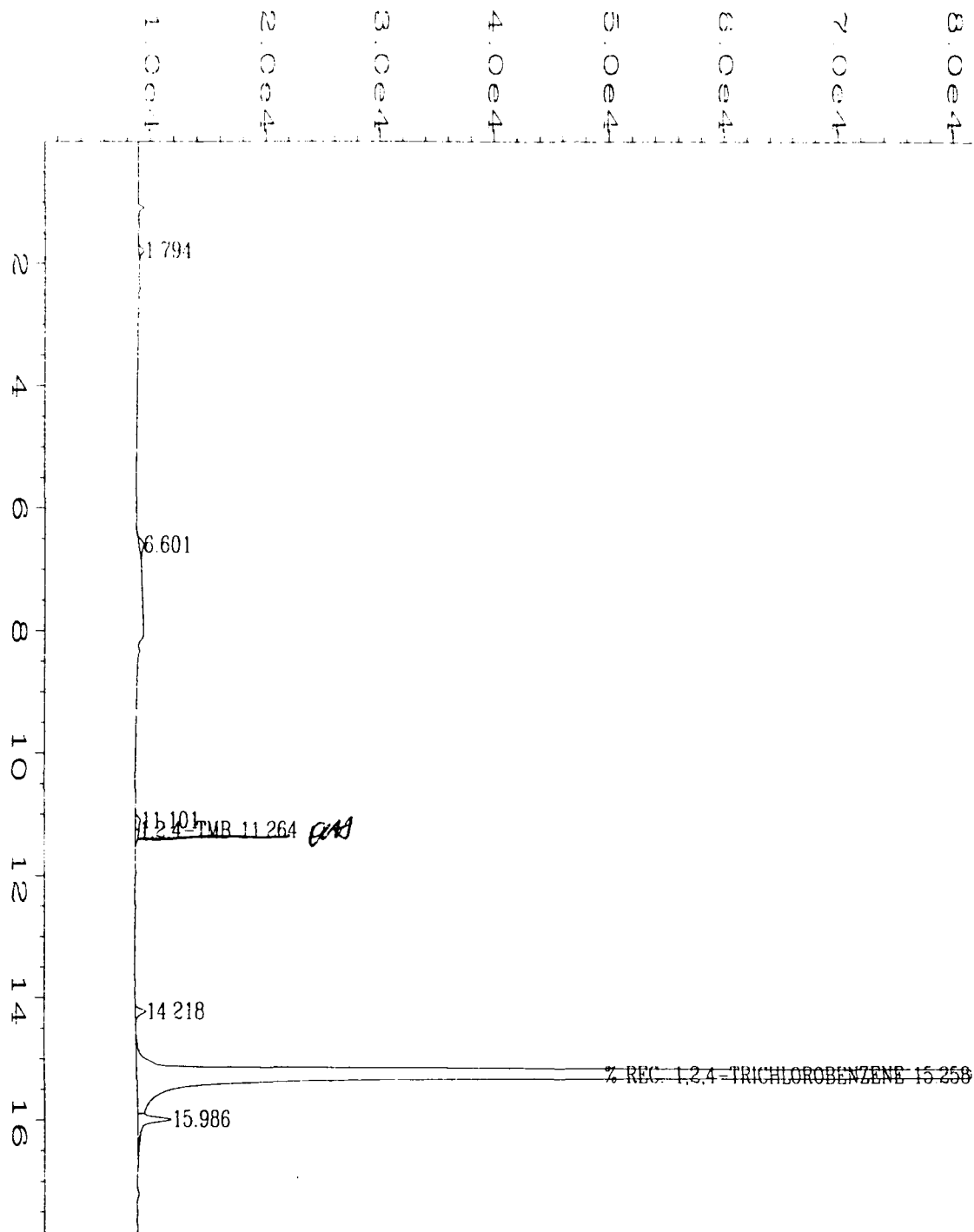
[Signature]

Approved

TVR1849.XLS 6/10/96 2



ata File Name	: C:\HPCHEM\2\DATA\TVBX0605\047F0101.D	Page Number	: 1
operator	: KAPRIE S. HOLLMAN	Vial Number	: 47
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-01A;1	Sequence Line	: 1
Time Bar Code:		Instrument Method:	TVW0409B.MTH
quired on	: 07 Jun 96 00:30 AM	Analysis Method	: TVW0409B.MTH
Report Created on:	07 Jun 96 00:48 AM	Sample Amount	: 0
ast Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
ultiplier	: 1		
Sample Info	: MW-11; WATER		



ata File Name	: C:\HPCHEM\2\DATA\TVBX0605\047R0101.D	Page Number	: 1
perator	: KAPRIE S. HOLLMAN	Vial Number	: 47
nstrument	: TVHBTEX2	Injection Number	: 1
ample Name	: 96-1849-01A;1	Sequence Line	: 1
un Time Bar Code:		Instrument Method:	TVW0409B
cquired on	: 07 Jun 96 00:30 AM	Analysis Method	: BXW0601.MTH
eport Created on:	07 Jun 96 00:48 AM	Sample Amount	: 0
ast Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
ultiplier	: 1		
ample Info	: MW-11; WATER		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number : MW-9 Client Project Number : Madison ANGB
Lab Sample Number : 96-1849-02 Lab Work Order : 96-1849
Date Sampled : 6/5/96 Matrix : WATER
Date Received : 6/6/96 Lab File Number(s) : TVBX0605045
Date Prepared : 6/6/96 Method Blank : MB060696-W
FID Dilution Factor : 1.0
PID Dilution Factor : 1.0

Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/6/96	1.8	0.1	mg/L
Benzene	71-43-2	6/6/96	2.1	0.4	ug/L
Toluene	108-88-3	6/6/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/6/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/6/96	4.2	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/6/96	25	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/6/96	46	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/6/96	150	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/6/96	66	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/6/96	71	0.5	ug/L
PID Surrogate Recovery:		99%	70%-130% (Limits)		
PID Surrogate Recovery:		106%	70%-128% (Limits)		

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

Comments:

QUALIFIERS and DEFINITIONS:

E = Extrapolated value. Value exceeds calibration range.

U = Compound analyzed for, but not detected.

B = Compound also found in the blank.

J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.

RL = Reporting Limit.

NA = Not Available/Not Applicable.

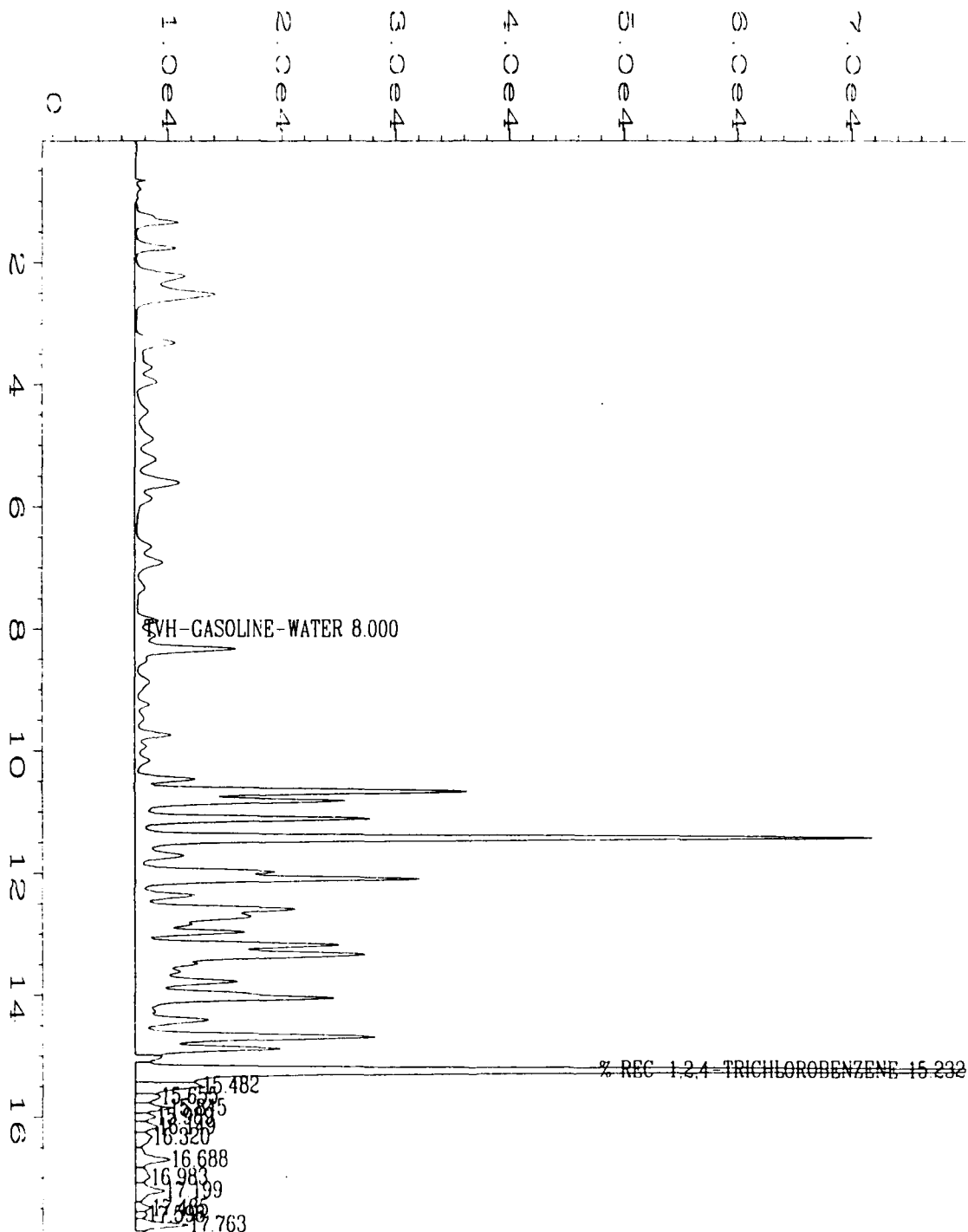
PID = Photoionization detector.

FID = Flame ionization detector.

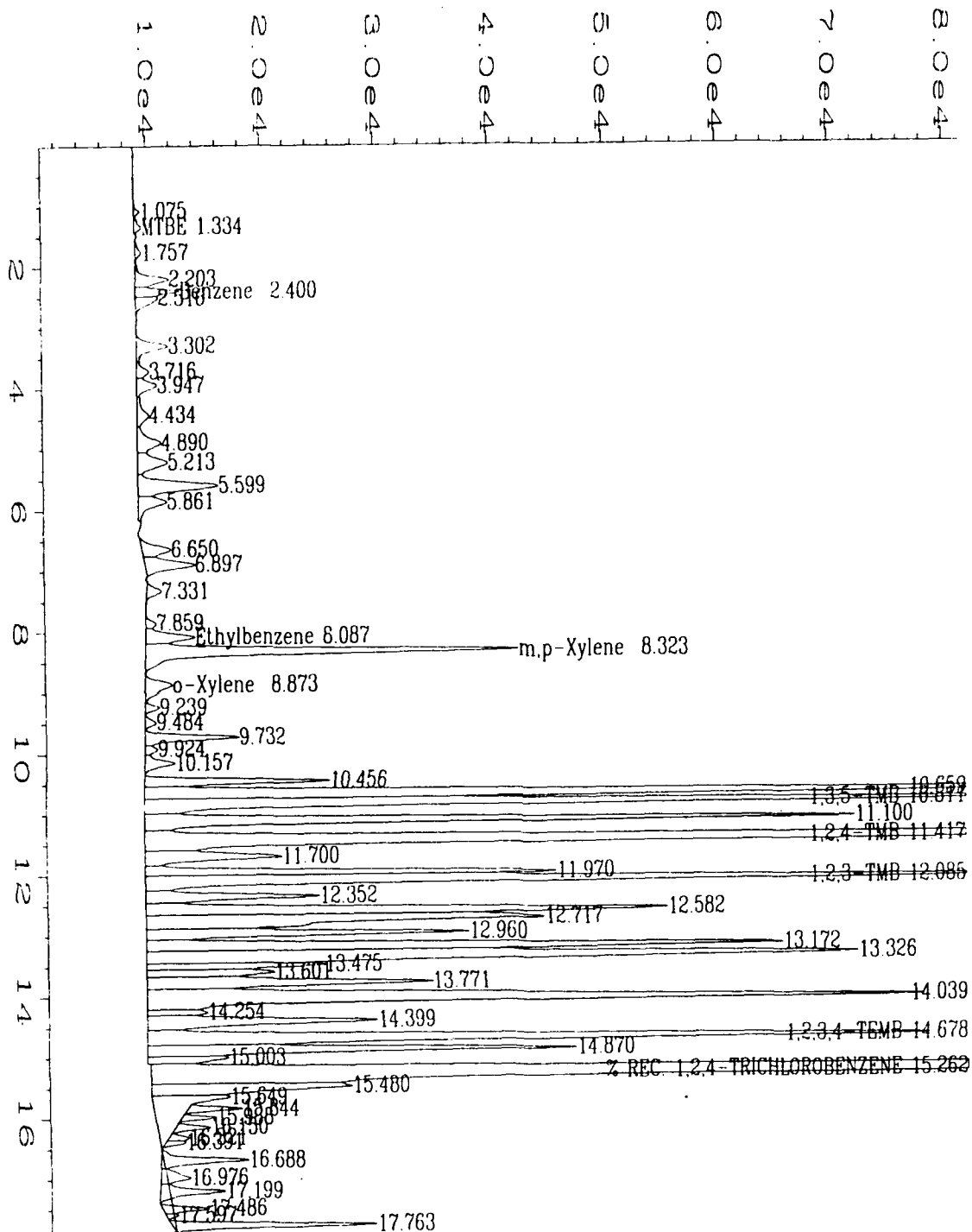
TVH = Total Volatile Hydrocarbons.

K. Hollman
Analyst

Stacy
Approved



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\045F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 45
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-02B;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TVW0409.
Acquired on	: 06 Jun 96 11:18 PM	Analysis Method	: TVW0409B.M
Report Created on:	06 Jun 96 11:36 PM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-9; WATER		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\045R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 45
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-02B;1	Sequence Line	: 1
R Time Bar Code:		Instrument Method	: TVW0409B.MTH
A Lired on	: 06 Jun 96 11:18 PM	Analysis Method	: BXW0601.MTH
Report Created on:	: 07 Jun 96 11:27 AM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-9; WATER		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number : MW-10 Client Project Number : Madison ANGB
Lab Sample Number : 96-1849-03 Lab Work Order : 96-1849
Date Sampled : 6/5/96 Matrix : WATER
Date Received : 6/6/96 Lab File Number(s) : TVBX0605046
Date Prepared : 6/6/96 Method Blank : MB060696-W
FID Dilution Factor : 10
PID Dilution Factor : 10

Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/6/96	5.0	1.0	mg/L
Benzene	71-43-2	6/6/96	120	4.0	ug/L
Toluene	108-88-3	6/6/96	U	4.0	ug/L
Chlorobenzene	108-90-	6/6/96	U	4.0	ug/L
Ethyl Benzene	100-41-4	6/6/96	94	4.0	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/6/96	530	4.0	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/6/96	67	4.0	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/6/96	200	4.0	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/6/96	110	4.0	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/6/96	38	5.0	ug/L
FID Surrogate Recovery:		96%		70%-130%	(Lim
PID Surrogate Recovery:		104%		70%-128%	(Limits)

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

Comments:

QUALIFIERS and DEFINITIONS:

E = Extrapolated value. Value exceeds calibration range.

U = Compound analyzed for, but not detected.

B = Compound also found in the blank.

J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.

RL = Reporting Limit.

NA = Not Available/Not Applicable.

PID = Photoionization detector.

FID = Flame ionization detector.

TVH = Total Volatile Hydrocarbons.

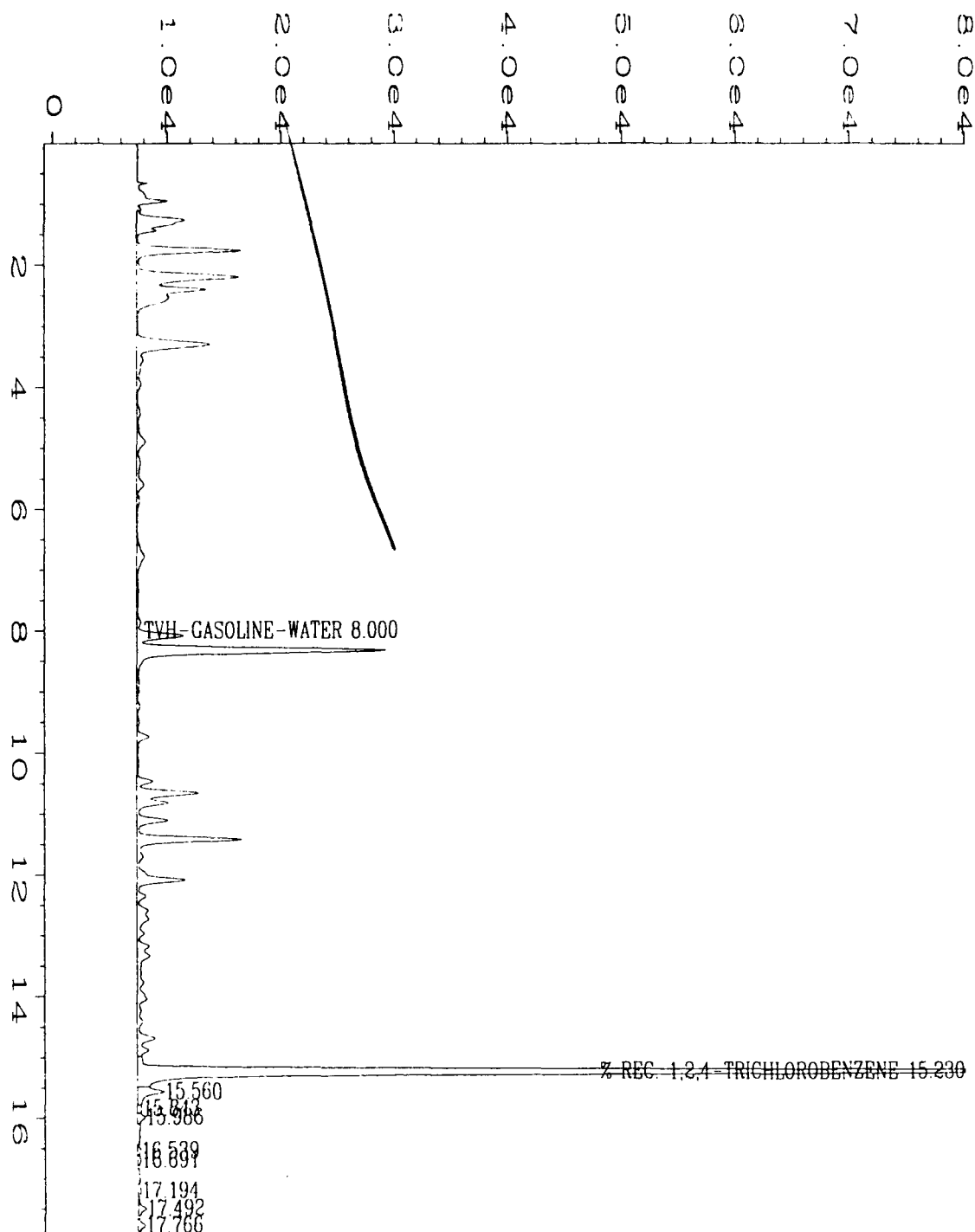
K. Hollman

Analyst

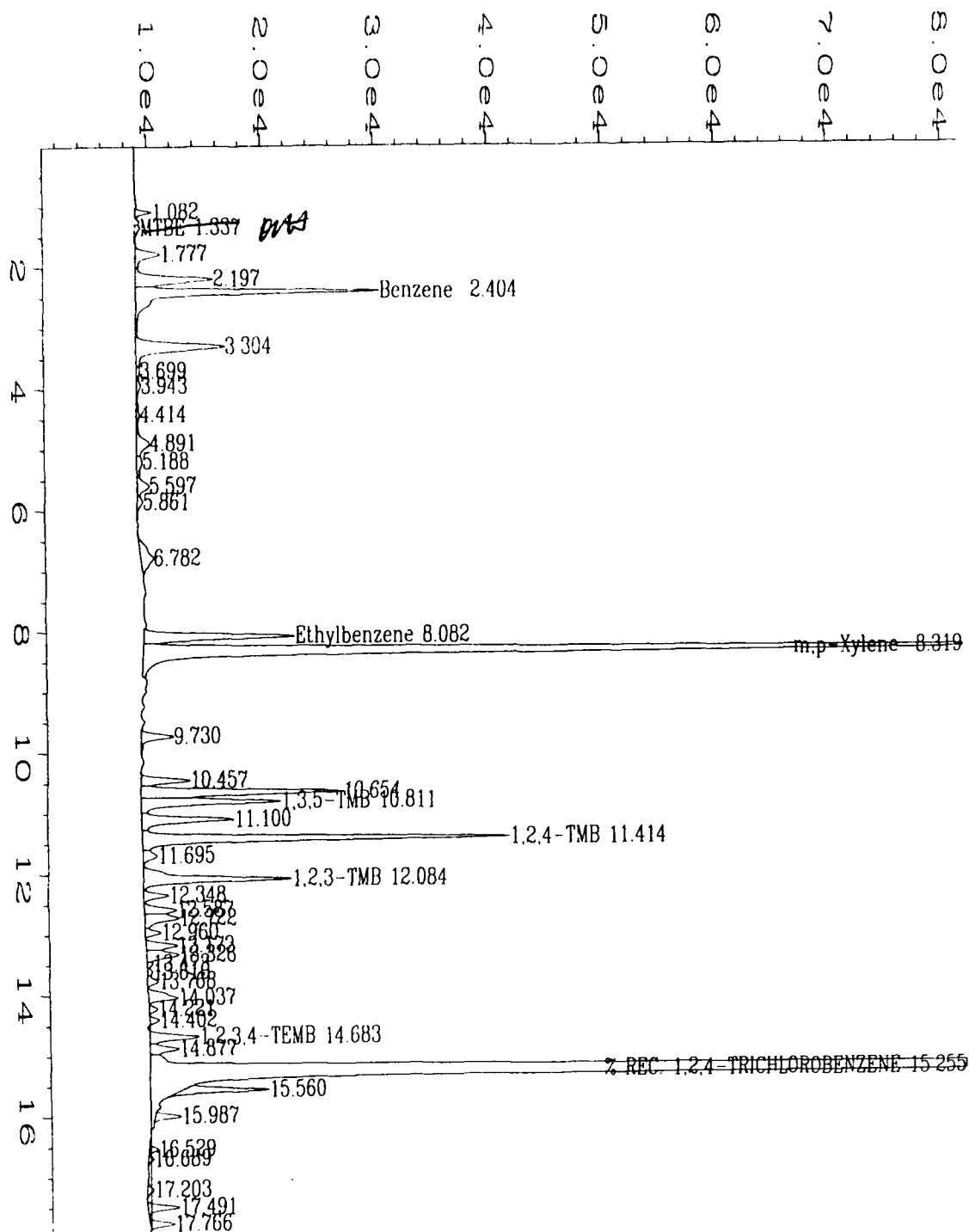
Steve

Approved

TVBP1849.XLS; 6/10/96; 4



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\046F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 46
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-03B;10	Sequence Line	: 1
Time Bar Code:		Instrument Method	: TVW0409B.MTH
Acquired on	: 06 Jun 96 11:54 PM	Analysis Method	: TVW0409B.MTH
Report Created on	: 07 Jun 96 00:12 AM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 10		
Sample Info	: MW-10; WATER		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\046R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 46
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-03B;10	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: TVW0409 I
Acquired on	: 06 Jun 96 11:54 PM	Analysis Method	: BXW0601.MTE
Report Created on:	07 Jun 96 00:13 AM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 10		
Sample Info	: MW-10; WATER		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number : MW-30 Client Project Number : Madison ANGB
Lab Sample Number : 96-1849-04 Lab Work Order : 96-1849
Date Sampled : 6/5/96 Matrix : WATER
Date Received : 6/6/96 Lab File Number(s) : TVBX0605037
Date Prepared : 6/6/96 Method Blank : MB060696-W
FID Dilution Factor : 10
PID Dilution Factor : 10

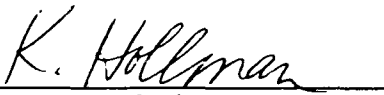
Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/6/96	4.2	1.0	mg/L
Benzene	71-43-2	6/6/96	98	4.0	ug/L
Toluene	108-88-3	6/6/96	U	4.0	ug/L
Chlorobenzene	108-90-7	6/6/96	U	4.0	ug/L
Ethyl Benzene	100-41-4	6/6/96	79	4.0	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/6/96	450	4.0	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/6/96	58	4.0	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/6/96	170	4.0	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/6/96	96	4.0	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/6/96	33	5.0	ug/L
PID Surrogate Recovery: 97% 70%-130% (Limits)					
PID Surrogate Recovery: 105% 70%-128% (Limits)					

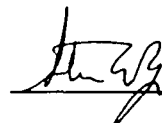
Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

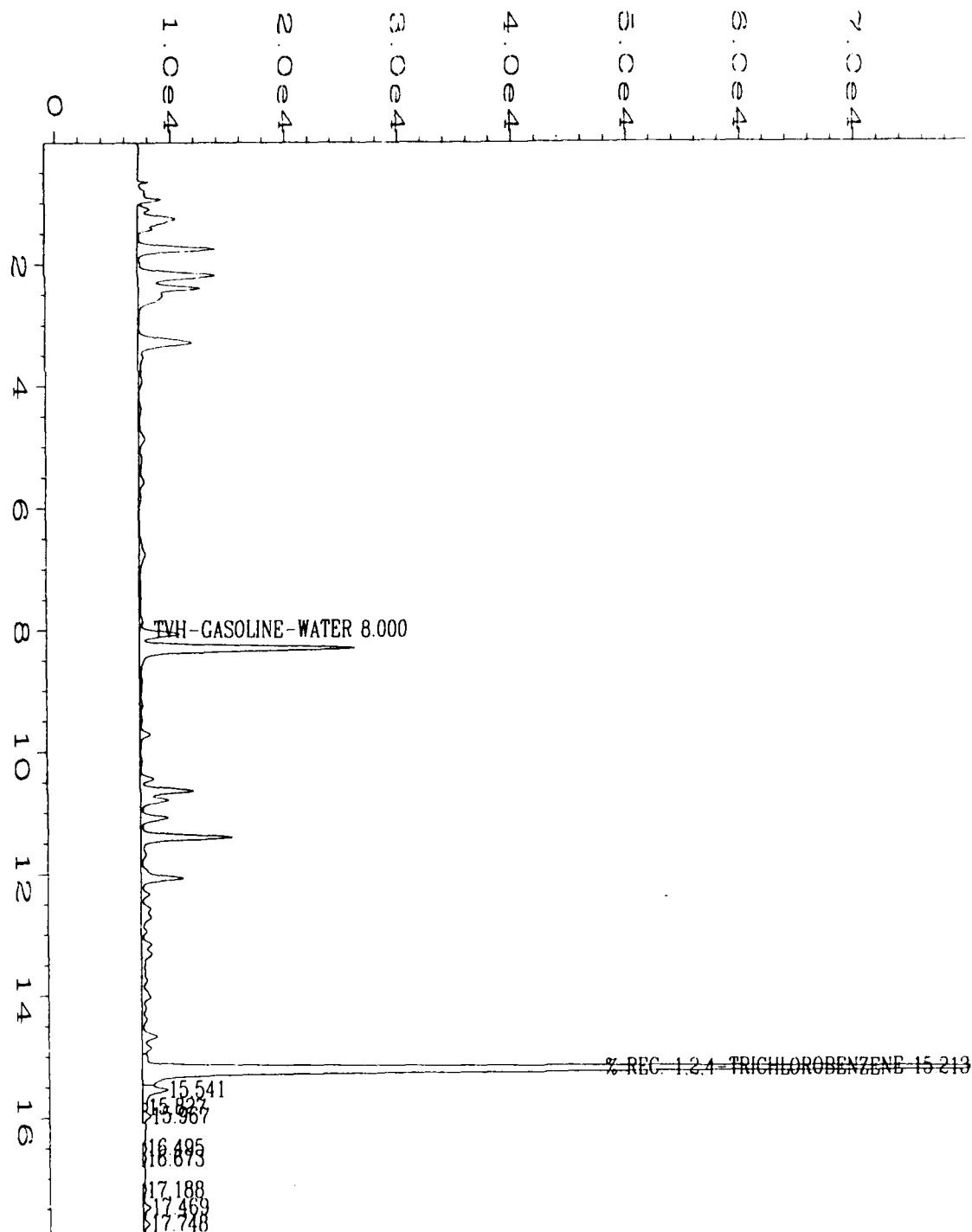
Comments:

QUALIFIERS and DEFINITIONS:

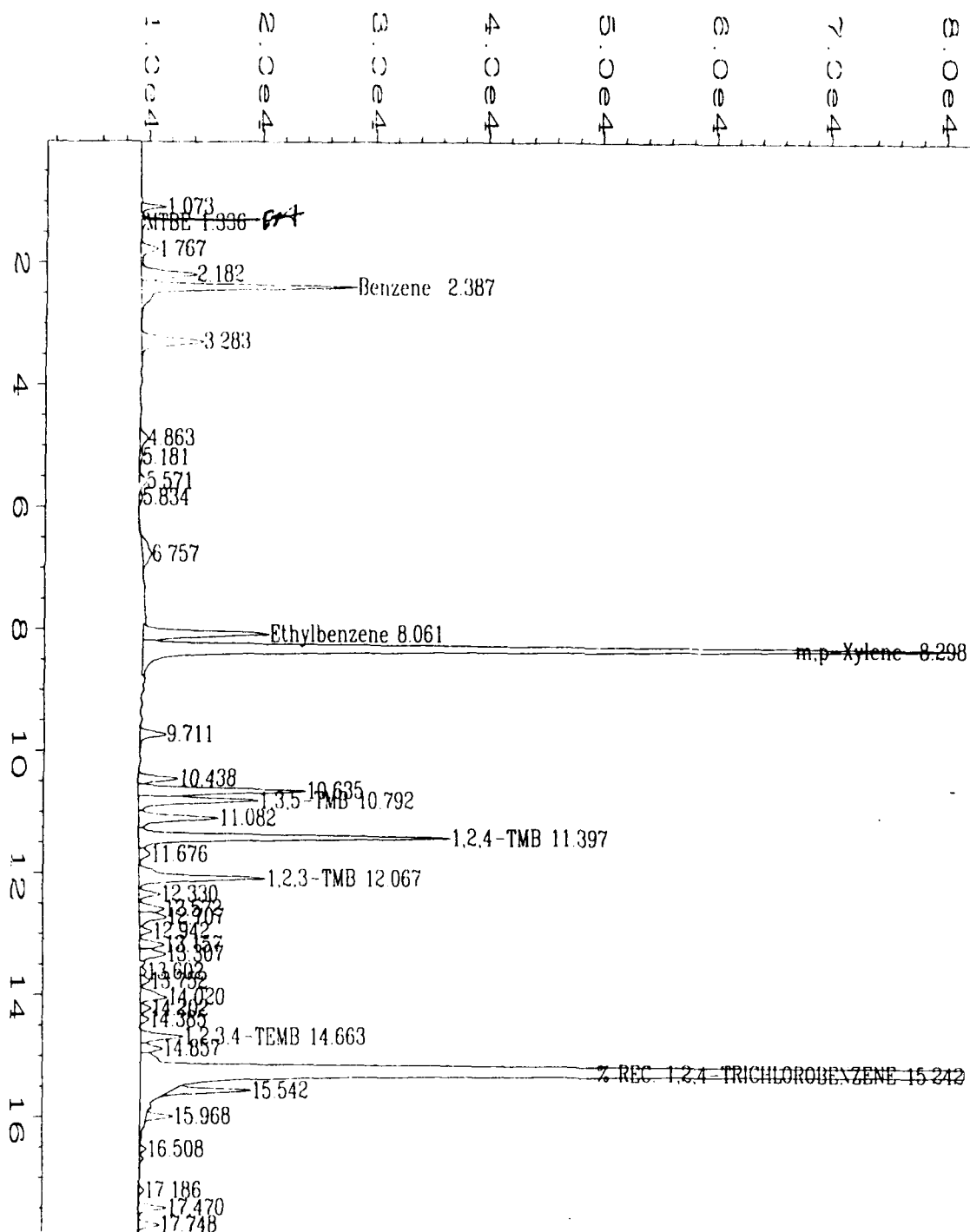
E = Extrapolated value. Value exceeds calibration range.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.
RL = Reporting Limit.
NA = Not Available/Not Applicable.
PID = Photoionization detector.
FID = Flame ionization detector.
TVH = Total Volatile Hydrocarbons.


Analyst

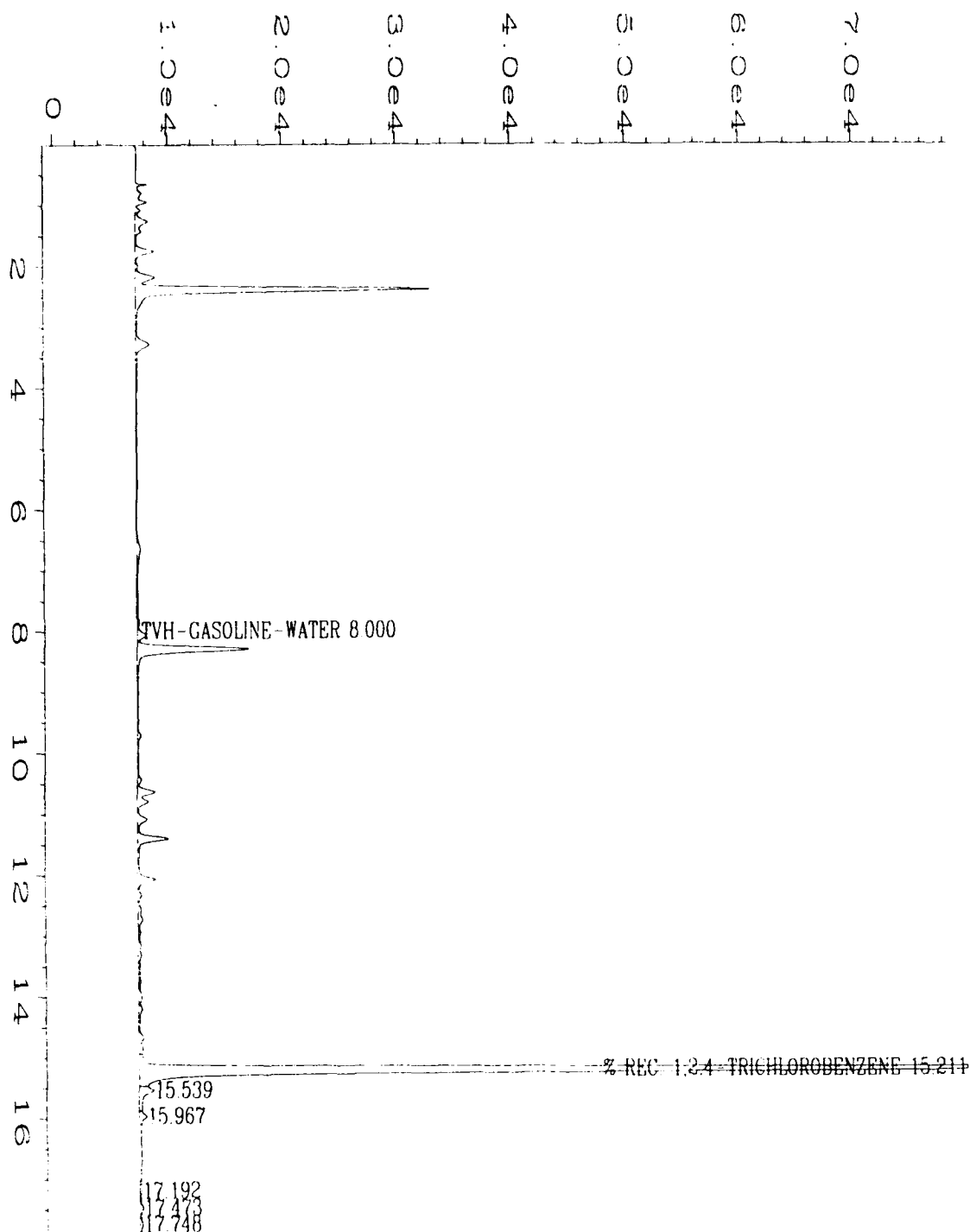

Approved



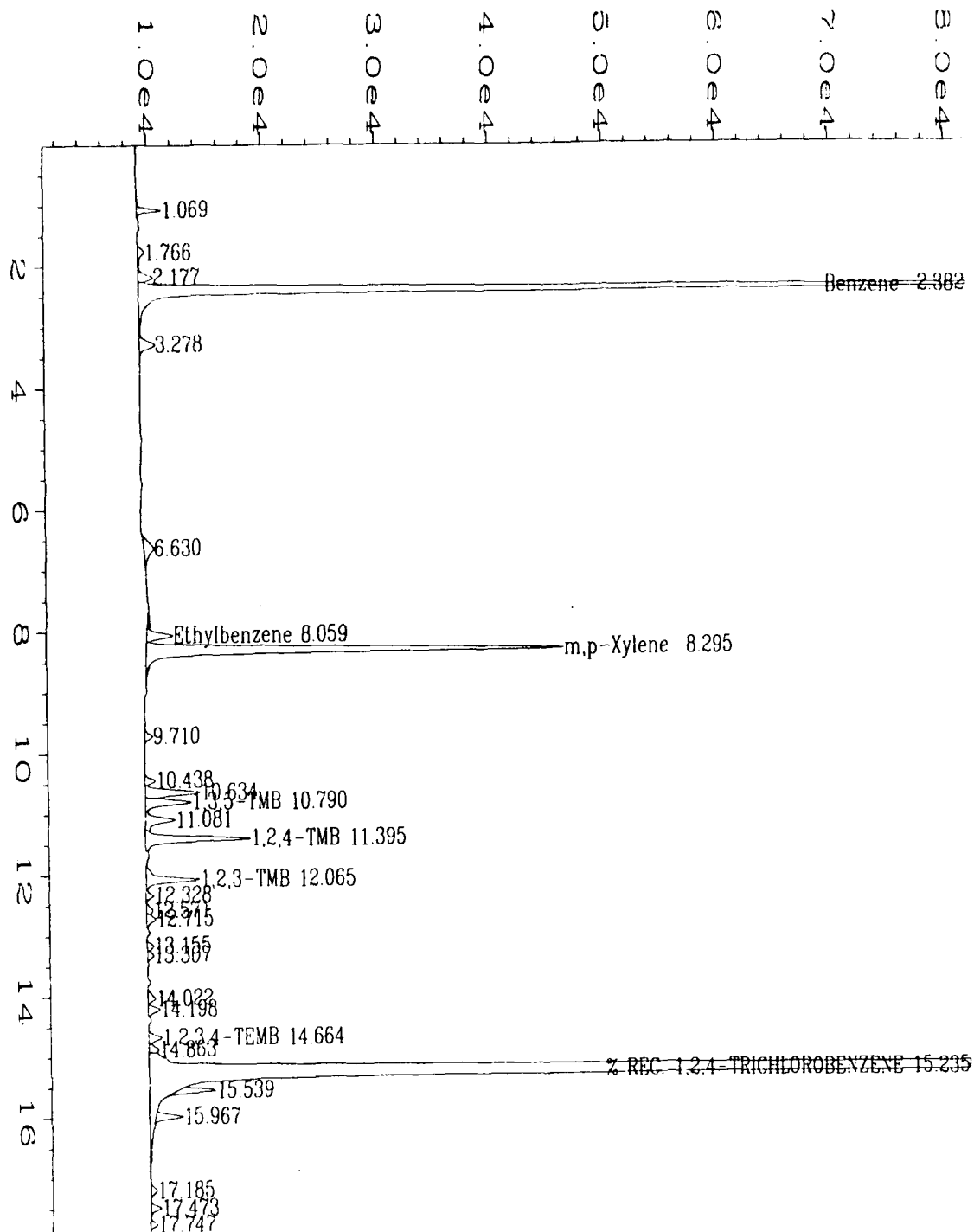
Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\037F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 37
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-04A;10	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: TVW0409E
Acquired on	: 06 Jun 96 03:23 PM	Analysis Method	: TVW0409B.MT
Report Created on:	: 06 Jun 96 03:42 PM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 10		
Sample Info	: MW-30; WATER		



ata File Name	: C:\HPCHEM\2\DATA\TVBX0605\037R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 37
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-04A;10	Sequence Line	: 1
Time Bar Code:		Instrument Method:	TVW0409B.MTH
Acquired on	: 06 Jun 96 03:23 PM	Analysis Method	: BXW0601.MTH
Report Created on:	06 Jun 96 03:42 PM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 10		
Sample Info	: MW-30; WATER		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\038F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 38
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-05A;100	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TVW0409F
Acquired on	: 06 Jun 96 03:57 PM	Analysis Method	: TVW0409B
Report Created on:	06 Jun 96 04:16 PM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 100		
Sample Info	: MW-8; WATER		



a File Name	: C:\HPCHEM\2\DATA\TVBX0605\038R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 38
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-05A;100	Sequence Line	: 1
Time Bar Code:		Instrument Method	: TVW0409B.MTH
Acquired on	: 06 Jun 96 03:57 PM	Analysis Method	: BXW0601.MTH
Report Created on	: 06 Jun 96 04:16 PM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 100		
Sample Info	: MW-8; WATER		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number : MW-22S Client Project Number : Madison ANGB
Lab Sample Number : 96-1849-06 Lab Work Order : 96-1849
Date Sampled : 6/5/96 Matrix : WATER
Date Received : 6/6/96 Lab File Number(s) : TVBX0605048
Date Prepared : 6/6/96 Method Blank : MB060696-W
FID Dilution Factor : 1.0
PID Dilution Factor : 1.0

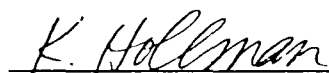
Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/7/96	U	0.1	mg/L
Benzene	71-43-2	6/7/96	U	0.4	ug/L
Toluene	108-88-3	6/7/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/7/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/7/96	U	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/7/96	U	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/7/96	U	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/7/96	U	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/7/96	U	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/7/96	U	0.5	ug/L
FID Surrogate Recovery: 95% 70%-130% (Lim					
PID Surrogate Recovery: 105% 70%-128% (Limits)					

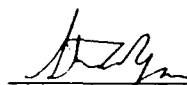
Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

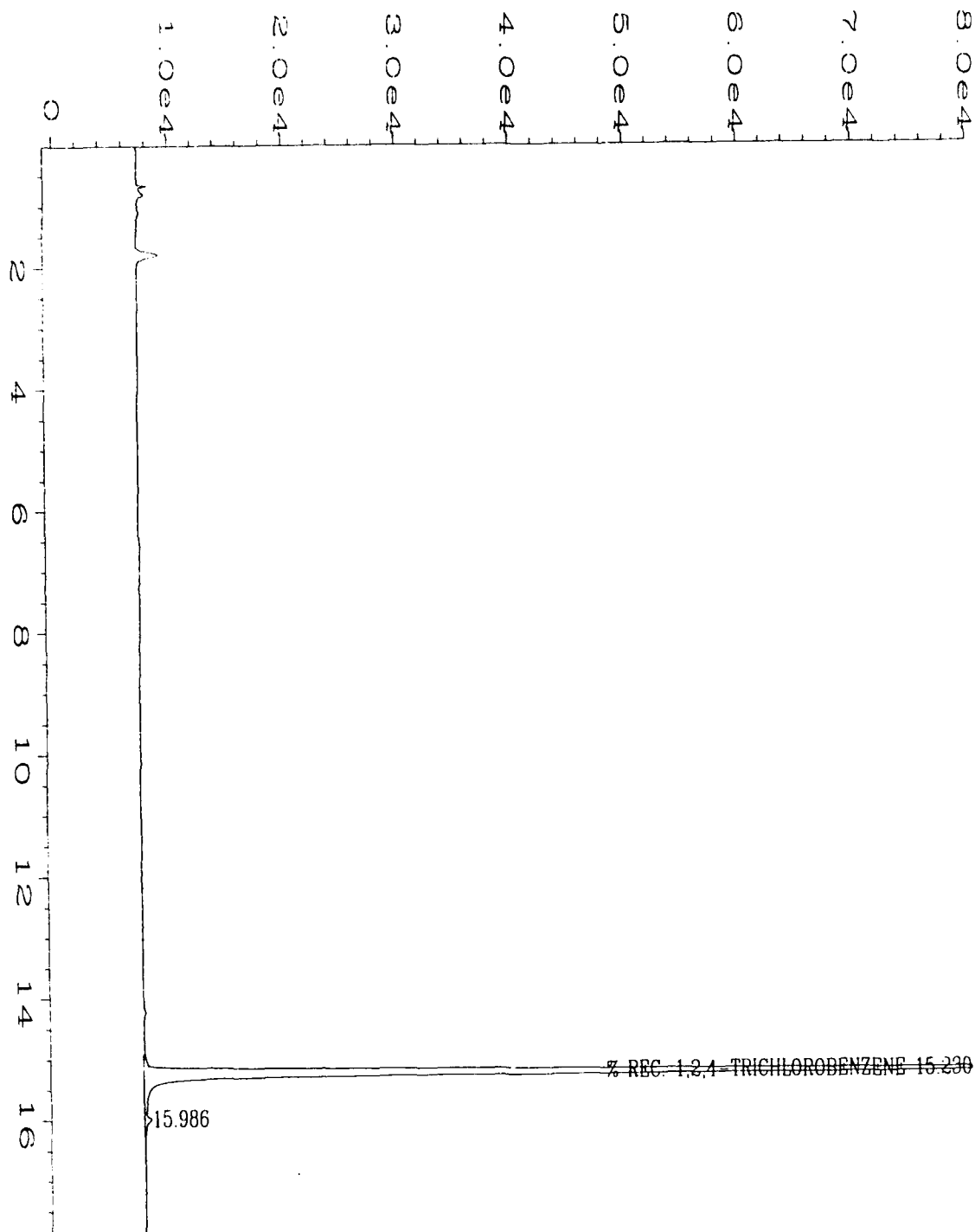
Comments:

QUALIFIERS and DEFINITIONS:

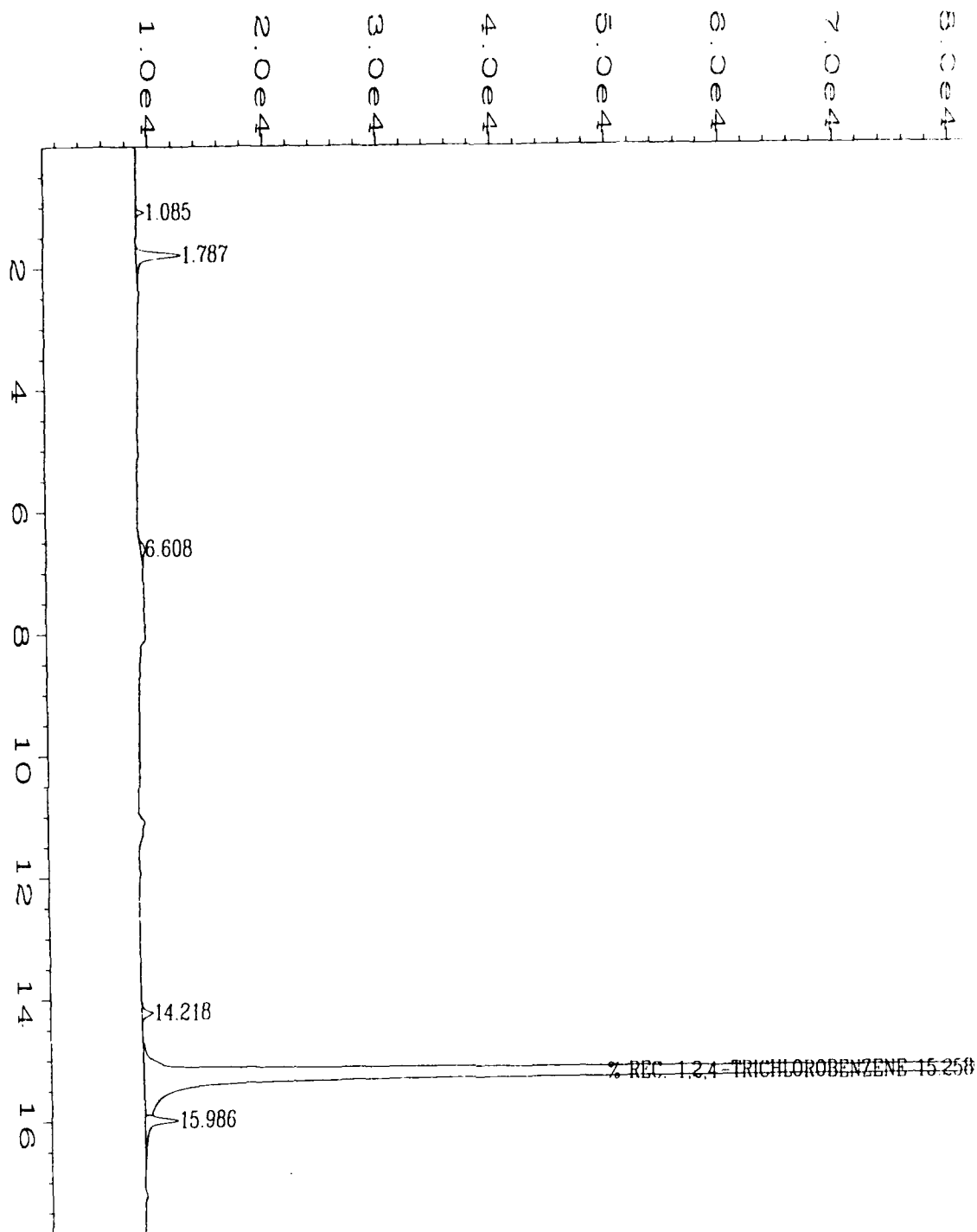
E = Extrapolated value. Value exceeds calibration range.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.
RL = Reporting Limit.
NA = Not Available/Not Applicable.
PID = Photoionization detector.
FID = Flame ionization detector.
TVH = Total Volatile Hydrocarbons.


Analyst


Approved



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\048F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 48
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-06A;1	Sequence Line	: 1
Time Bar Code:		Instrument Method	: TVW0409B.MTH
Acquired on	: 07 Jun 96 01:06 AM	Analysis Method	: TVW0409B.MTH
Report Created on:	07 Jun 96 01:24 AM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-22S; WATER		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\048R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 48
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-06A;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: TVW0409i 1
Acquired on	: 07 Jun 96 01:06 AM	Analysis Method	: BXW0601.MTH
Report Created on:	07 Jun 96 01:24 AM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-22S; WATER		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number	: MW-22D	Client Project Number	: Madison ANGB
Lab Sample Number	: 96-1849-07	Lab Work Order	: 96-1849
Date Sampled	: 6/5/96	Matrix	: WATER
Date Received	: 6/6/96	Lab File Number(s)	: TVBX0605049
Date Prepared	: 6/6/96	Method Blank	: MB060696-W
FID Dilution Factor	: 1.0		
PID Dilution Factor	: 1.0		

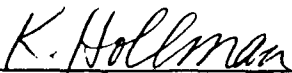
Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/7/96	U	0.1	mg/L
Benzene	71-43-2	6/7/96	6.5	0.4	ug/L
Toluene	108-88-3	6/7/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/7/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/7/96	U	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/7/96	U	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/7/96	U	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/7/96	U	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/7/96	U	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/7/96	U	0.5	ug/L
PID Surrogate Recovery:		95%		70%-130%	(Limits)
PID Surrogate Recovery:		105%		70%-128%	(Limits)

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

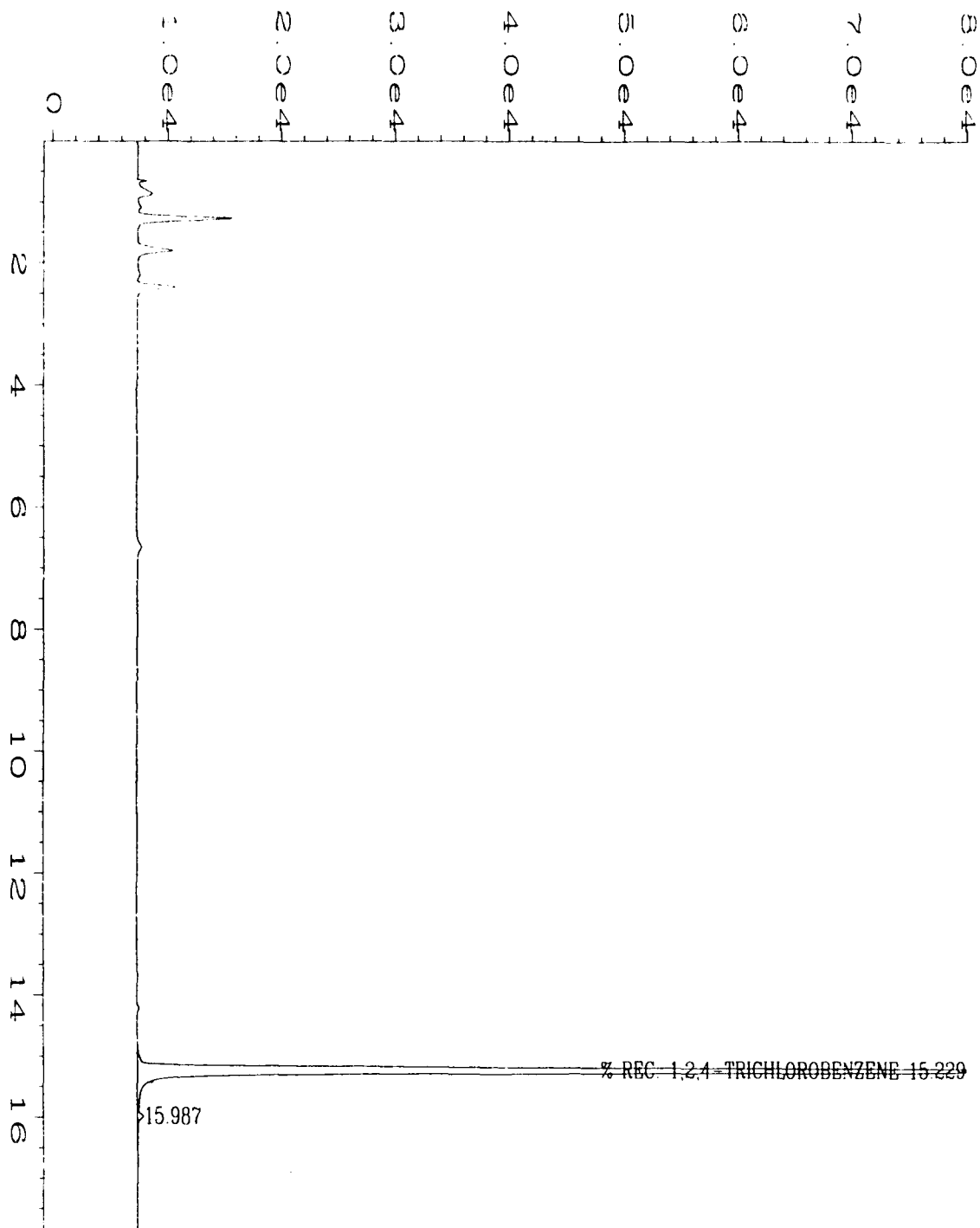
Comments:

QUALIFIERS and DEFINITIONS:

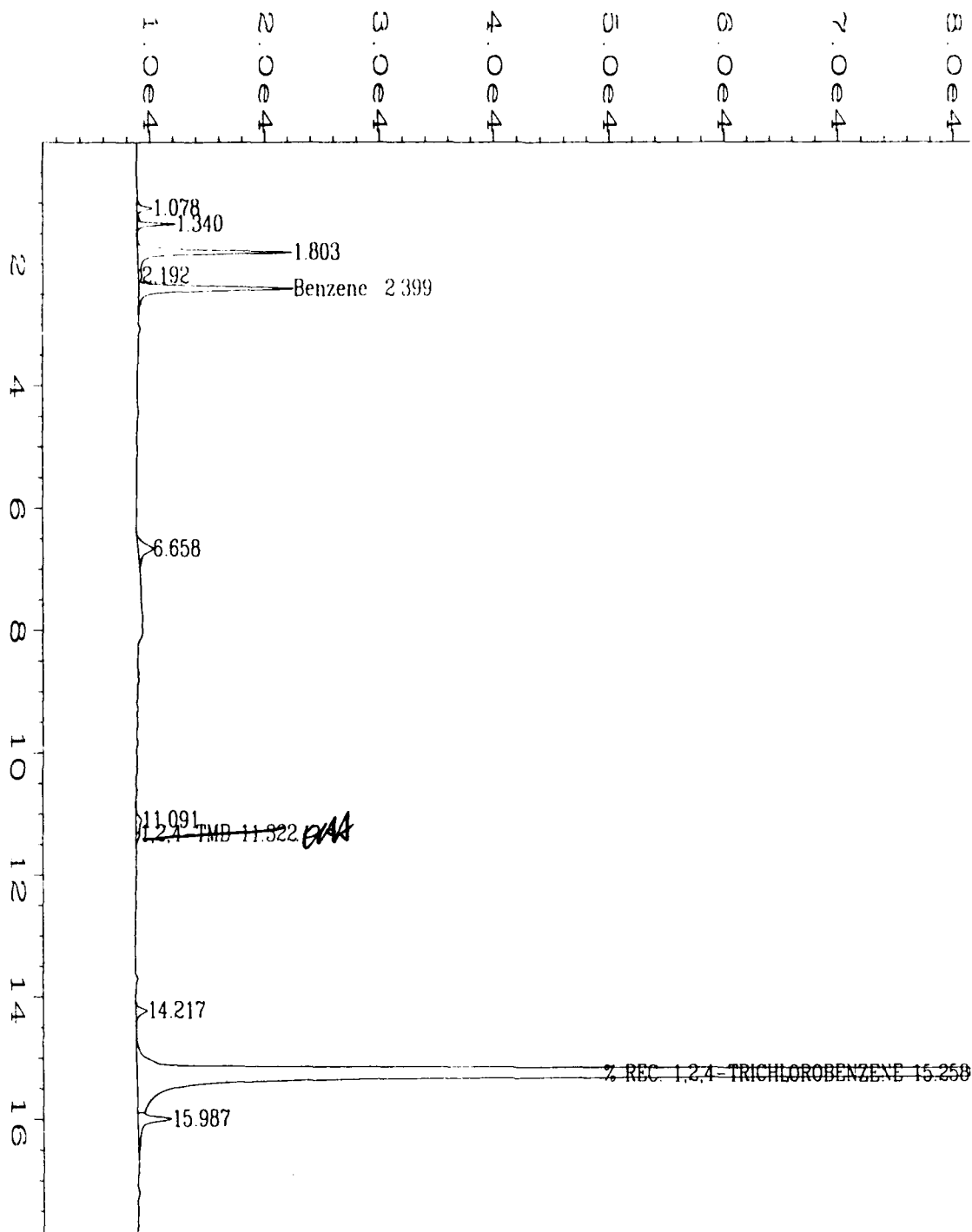
E = Extrapolated value. Value exceeds calibration range.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.
RL = Reporting Limit.
NA = Not Available/Not Applicable.
PID = Photoionization detector.
FID = Flame ionization detector.
TVH = Total Volatile Hydrocarbons.


Analyst


Approved



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\049F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 49
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-07A;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TVW0409B
Acquired on	: 07 Jun 96 01:42 AM	Analysis Method	: TVW0409B.MT
Report Created on:	07 Jun 96 02:00 AM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-22D; WATER		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\049R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 49
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-07A;1	Sequence Line	: 1
I Time Bar Code:		Instrument Method	: TVW0409B.MTH
Acquired on	: 07 Jun 96 01:42 AM	Analysis Method	: BXW0601.MTH
Report Created on	: 07 Jun 96 02:00 AM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-22D; WATER		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number : MW-32 Client Project Number : Madison ANGB
Lab Sample Number : 96-1849-08 Lab Work Order : 96-1849
Date Sampled : 6/5/96 Matrix : WATER
Date Received : 6/6/96 Lab File Number(s) : TVBX0605050
Date Prepared : 6/6/96 Method Blank : MB060696-W
FID Dilution Factor : 1.0
PID Dilution Factor : 1.0

Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/7/96	U	0.1	mg/L
Benzene	71-43-2	6/7/96	6.6	0.4	ug/L
Toluene	108-88-3	6/7/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/7/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/7/96	U	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/7/96	U	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/7/96	U	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/7/96	U	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/7/96	U	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/7/96	U	0.5	ug/L
FID Surrogate Recovery:		96%		70%-130%	(Lir
PID Surrogate Recovery:		105%		70%-128%	(Lim...

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

Comments:

QUALIFIERS and DEFINITIONS:

E = Extrapolated value. Value exceeds calibration range.

U = Compound analyzed for, but not detected.

B = Compound also found in the blank.

J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.

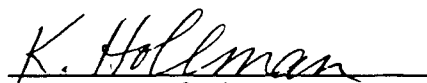
RL = Reporting Limit.

NA = Not Available/Not Applicable.

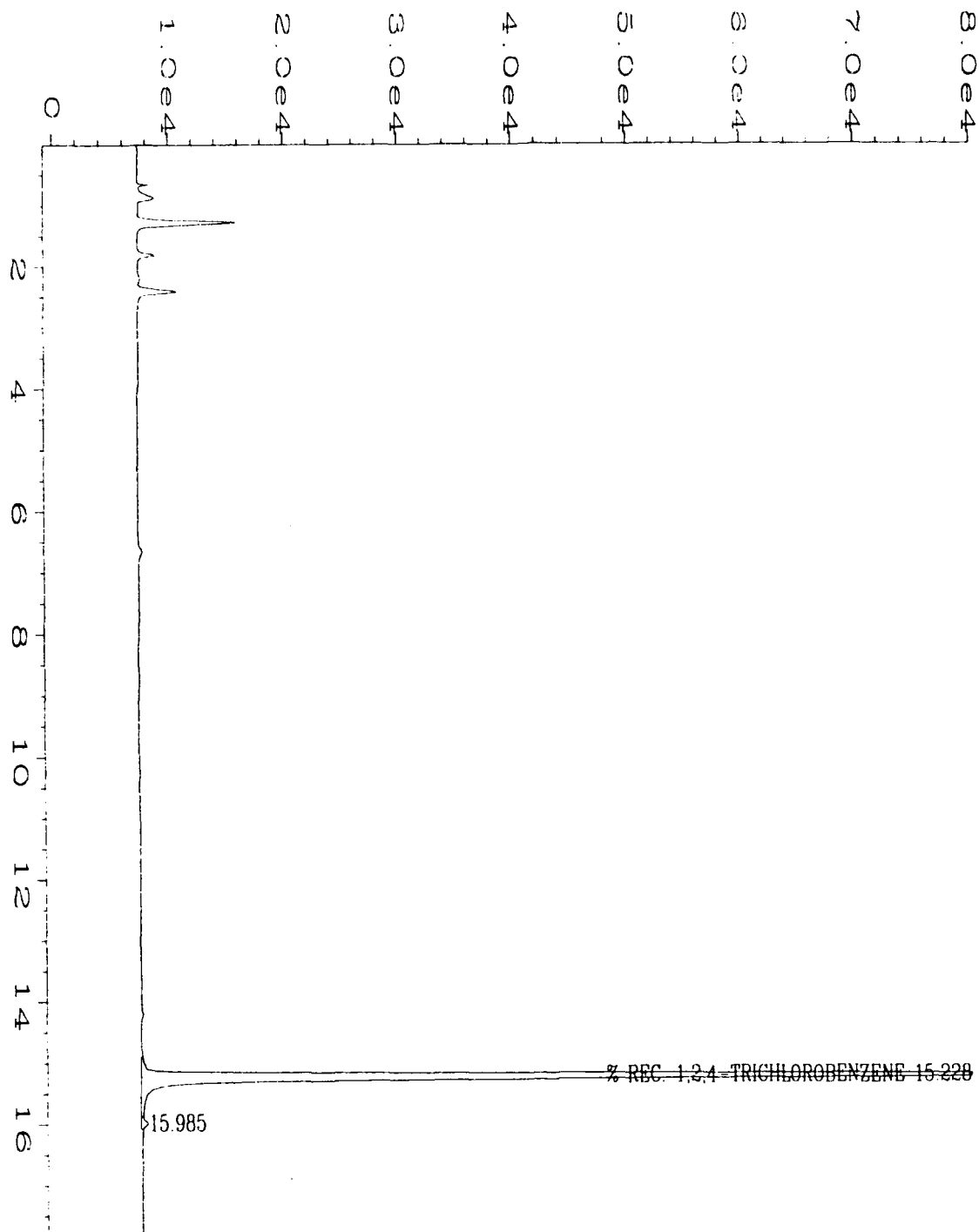
PID = Photoionization detector.

FID = Flame ionization detector.

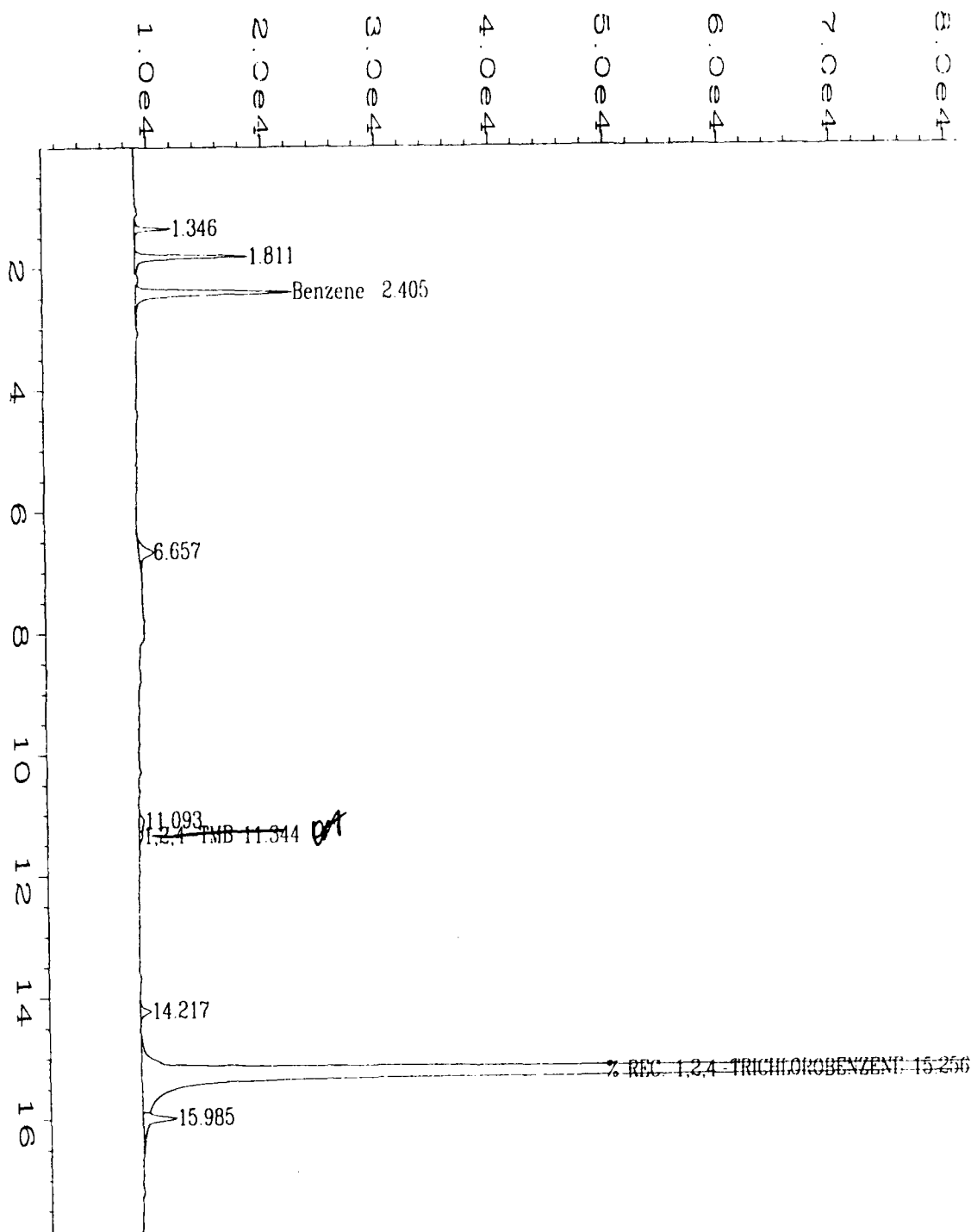
TVH = Total Volatile Hydrocarbons.


Analyst


Approved



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\050F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 50
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-08A;1	Sequence Line	: 1
Time Bar Code:		Instrument Method	: TVW0409B.MTH
Acquired on	: 07 Jun 96 02:18 AM	Analysis Method	: TVW0409B.MTH
Report Created on	: 07 Jun 96 02:36 AM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-32; WATER		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\050R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 50
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-08A;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: TVW0409B
Acquired on	: 07 Jun 96 02:18 AM	Analysis Method	: BXW0601.MTH
Report Created on	: 07 Jun 96 02:36 AM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-32; WATER		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number : MW-17 Client Project Number : Madison ANGB
Lab Sample Number : 96-1849-09 Lab Work Order : 96-1849
Date Sampled : 6/5/96 Matrix : WATER
Date Received : 6/6/96 Lab File Number(s) : TVBX0605051
Date Prepared : 6/6/96 Method Blank : MB060696-W
FID Dilution Factor : 1.0
PID Dilution Factor : 1.0

Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/7/96	U	0.1	mg/L
Benzene	71-43-2	6/7/96	U	0.4	ug/L
Toluene	108-88-3	6/7/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/7/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/7/96	U	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/7/96	U	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/7/96	U	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/7/96	U	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/7/96	U	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/7/96	U	0.5	ug/L
FID Surrogate Recovery:		96%		70%-130%	(Limits)
PID Surrogate Recovery:		106%		70%-128%	(Limits)

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

Comments:

QUALIFIERS and DEFINITIONS:

E = Extrapolated value. Value exceeds calibration range.

U = Compound analyzed for, but not detected.

B = Compound also found in the blank.

J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.

RL = Reporting Limit.

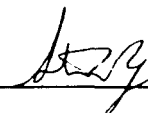
NA = Not Available/Not Applicable.

PID = Photoionization detector.

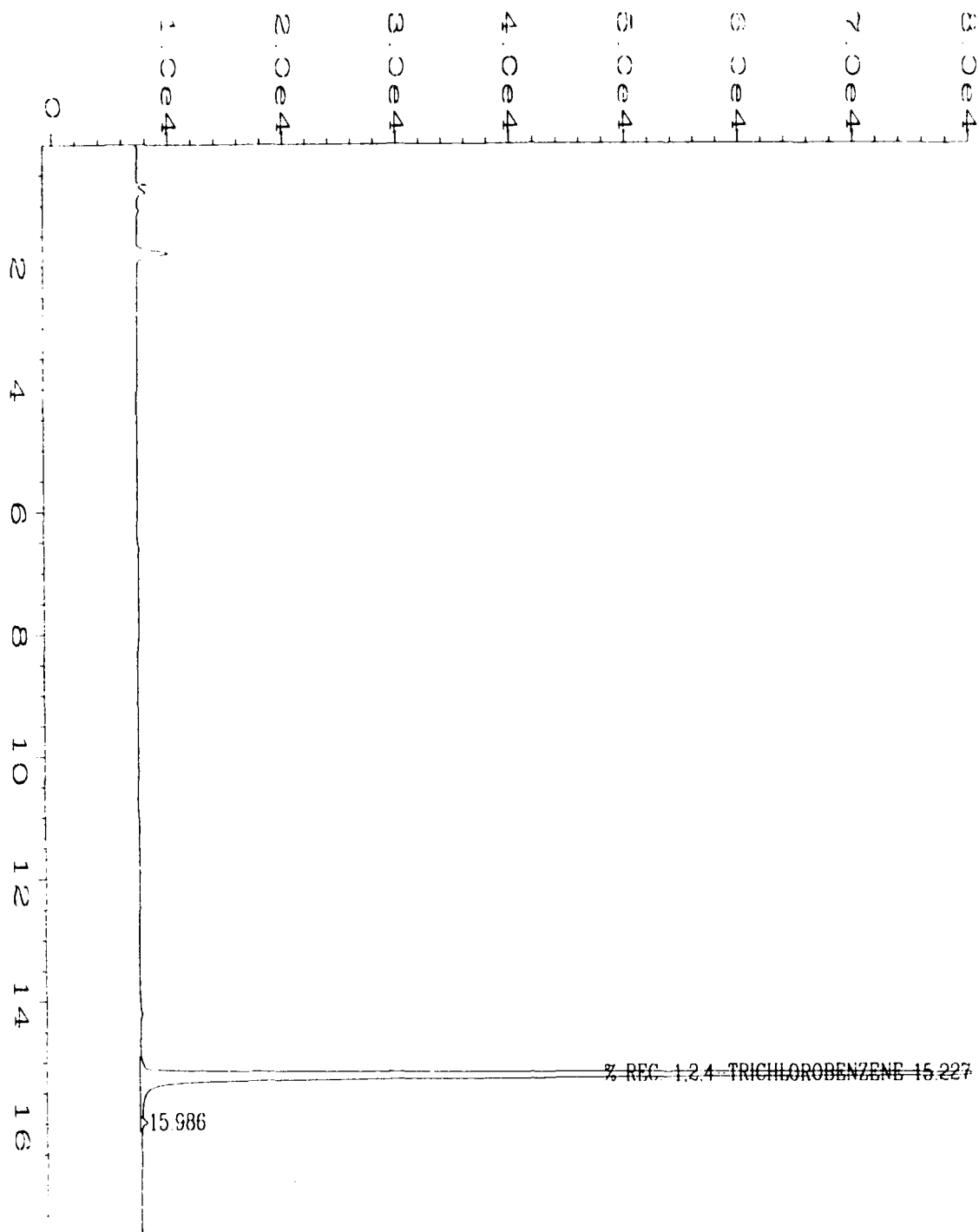
FID = Flame ionization detector.

TVH = Total Volatile Hydrocarbons.

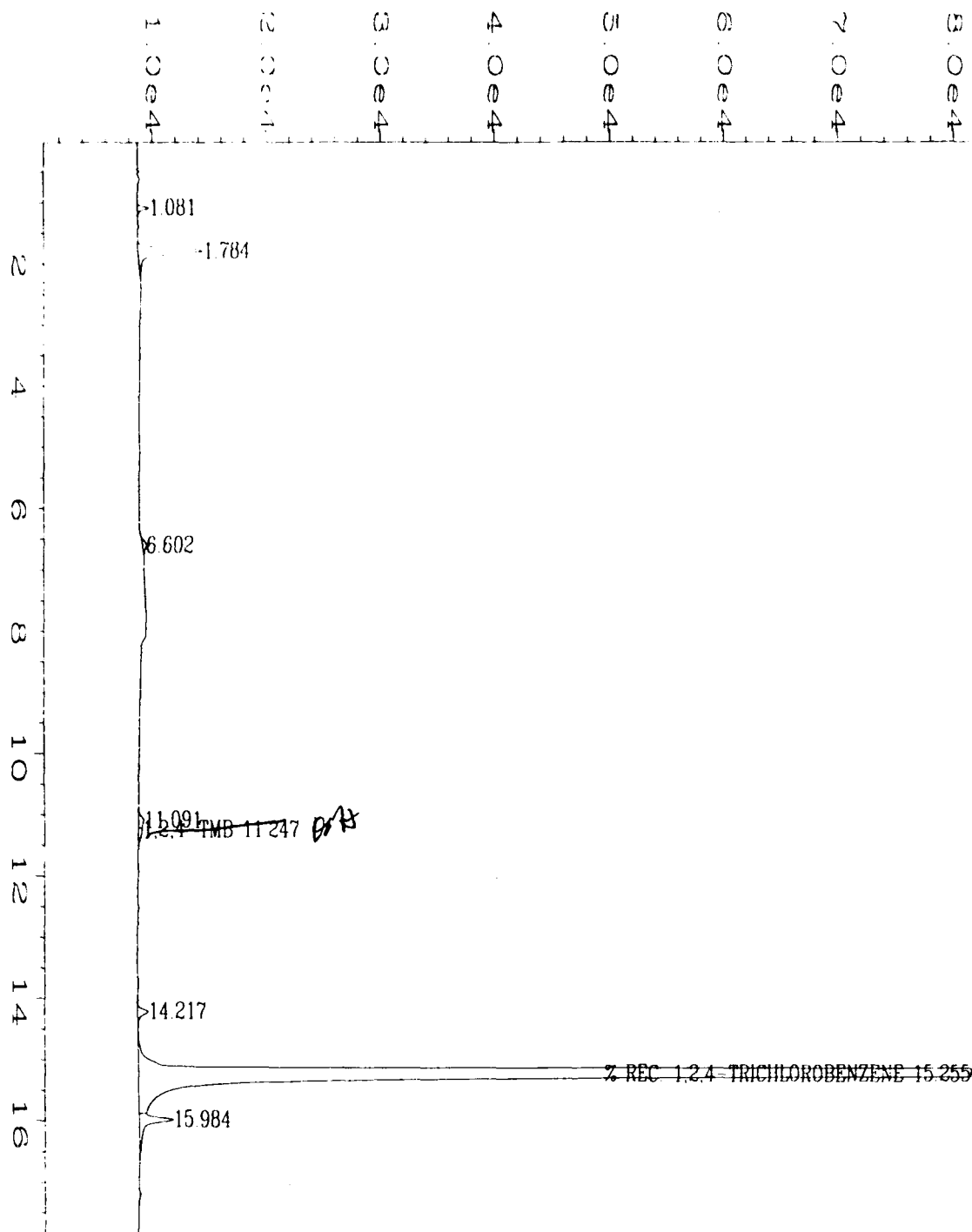

Analyst


Approved

TVRP1849.XLS 6/10/96 10



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\051F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 51
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-09A;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: TVW0409E
Acquired on	: 07 Jun 96 02:53 AM	Analysis Method	: TVW0409B.MT
Report Created on:	: 07 Jun 96 03:12 AM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-17; WATER		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\051R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 51
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-09A;1	Sequence Line	: 1
Time Bar Code:		Instrument Method	: TVW0409B.MTH
Acquired on	: 07 Jun 96 02:53 AM	Analysis Method	: BXW0601.MTH
Report Created on	: 07 Jun 96 03:12 AM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-17; WATER		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number : MW-25 Client Project Number : Madison ANGB
Lab Sample Number : 96-1849-10 Lab Work Order : 96-1849
Date Sampled : 6/5/96 Matrix : WATER
Date Received : 6/6/96 Lab File Number(s) : TVBX0605052
Date Prepared : 6/6/96 Method Blank : MB060696-W
FID Dilution Factor : 1.0
PID Dilution Factor : 1.0

Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/7/96	U	0.1	mg/L
Benzene	71-43-2	6/7/96	U	0.4	ug/L
Toluene	108-88-3	6/7/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/7/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/7/96	U	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/7/96	U	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/7/96	U	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/7/96	U	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/7/96	U	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/7/96	U	0.5	ug/L
FID Surrogate Recovery:		96%		70%-130%	(Lim.)
PID Surrogate Recovery:		105%		70%-128%	(Lim.)

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

Comments:

QUALIFIERS and DEFINITIONS:

E = Extrapolated value. Value exceeds calibration range.

U = Compound analyzed for, but not detected.

B = Compound also found in the blank.

J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.

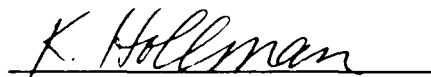
RL = Reporting Limit.

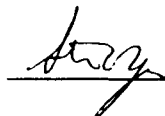
NA = Not Available/Not Applicable.

PID = Photoionization detector.

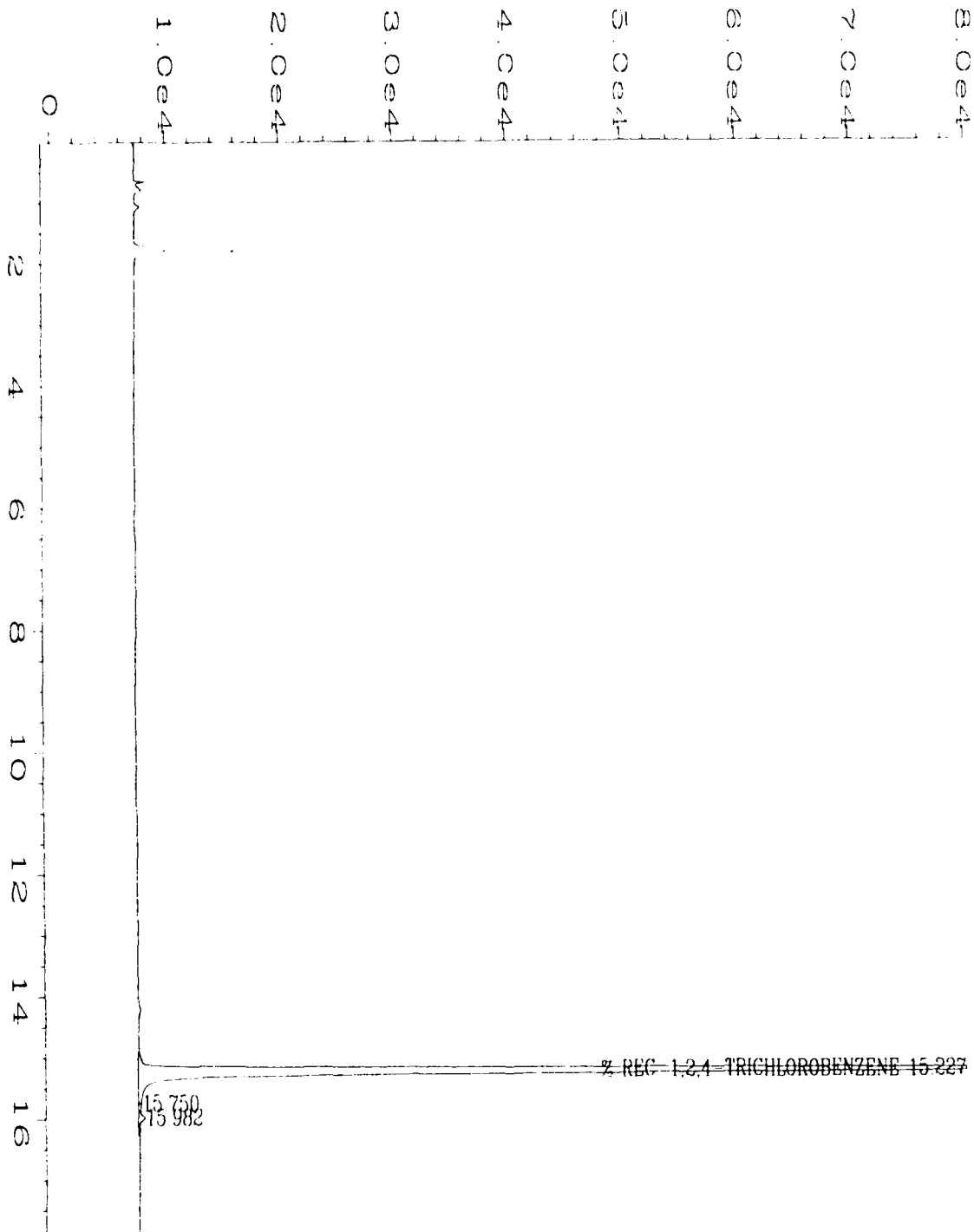
FID = Flame ionization detector.

TVH = Total Volatile Hydrocarbons.

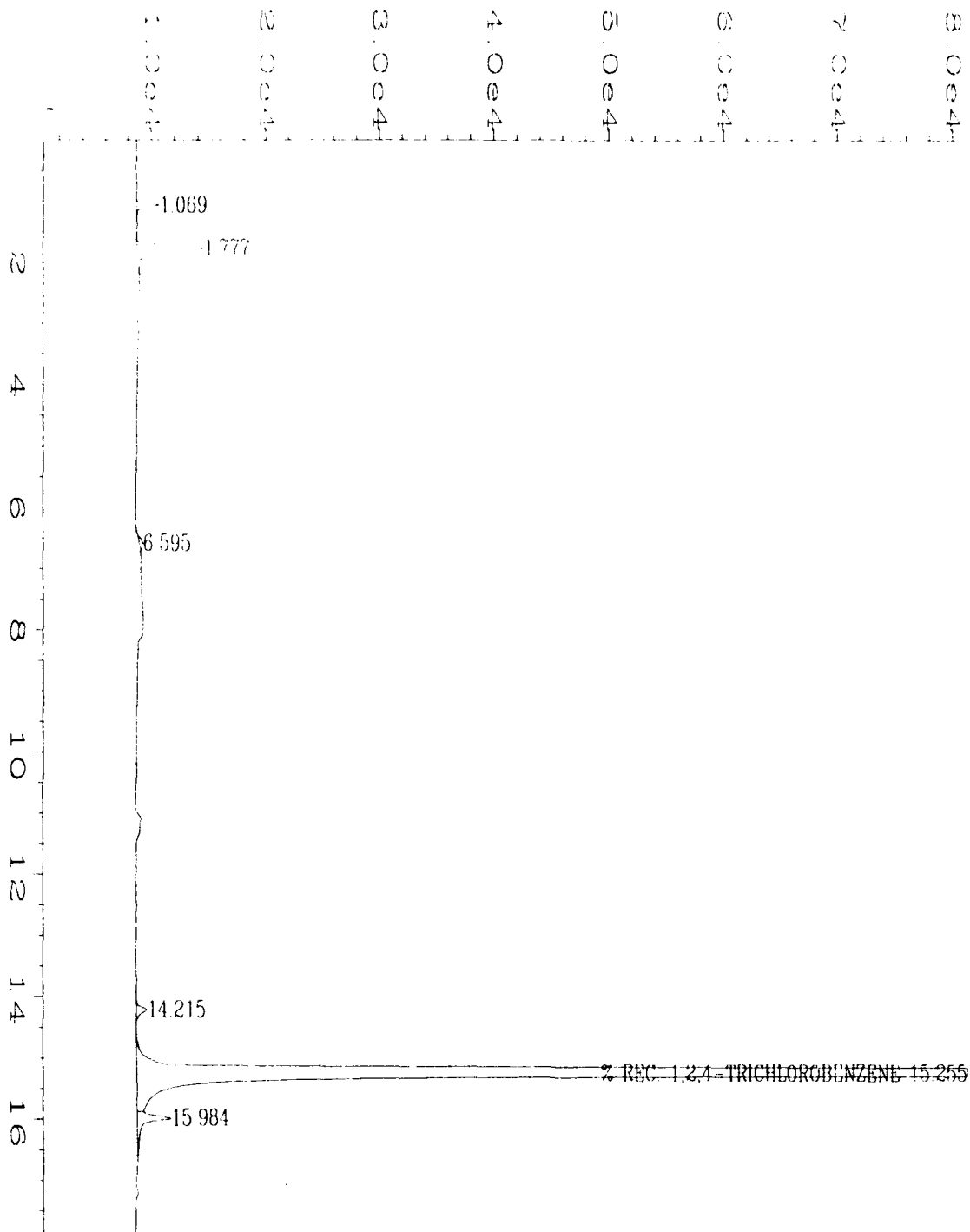

Analyst


Approved

TVBP1849 XLS; 6/10/96; 11



ta File Name	: C:\HPCHEM\2\DATA\TVBX0605\052F0101.D	Page Number	: 1
erator	: KAPRIE S. HOLLMAN	Vial Number	: 52
strument	: TVHBTEX2	Injection Number	: 1
mples Name	: 96-1849-10A;1	Sequence Line	: 1
Time Bar Code:		Instrument Method:	TVW0409B.MTH
quired on	: 07 Jun 96 03:29 AM	Analysis Method	: TVW0409B.MTH
port Created on:	07 Jun 96 03:48 AM	Sample Amount	: 0
st Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
ltiplier	: 1		
mples Info	: MW-25; WATER		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\052R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 52
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-10A;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TVW0409.F
Acquired on	: 07 Jun 96 03:29 AM	Analysis Method	: BXW0601.MPH
Report Created on:	07 Jun 96 03:48 AM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-25; WATER		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number : CPT-18S Client Project Number : Madison ANGB
Lab Sample Number : 96-1849-11 Lab Work Order : 96-1849
Date Sampled : 6/5/96 Matrix : WATER
Date Received : 6/6/96 Lab File Number(s) : TVBX0605053
Date Prepared : 6/6/96 Method Blank : MB060696-W
FID Dilution Factor : 1.0
PID Dilution Factor : 1.0

Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/7/96	U	0.1	mg/L
Benzene	71-43-2	6/7/96	U	0.4	ug/L
Toluene	108-88-3	6/7/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/7/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/7/96	U	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/7/96	U	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/7/96	U	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/7/96	U	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/7/96	U	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/7/96	U	0.5	ug/L
FID Surrogate Recovery:		98%		70%-130%	(Limits)
PID Surrogate Recovery:		106%		70%-128%	(Limits)

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

Comments:

QUALIFIERS and DEFINITIONS:

E = Extrapolated value. Value exceeds calibration range.

U = Compound analyzed for, but not detected.

B = Compound also found in the blank.

J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.

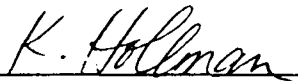
RL = Reporting Limit.

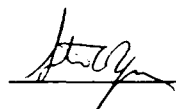
NA = Not Available/Not Applicable.

PID = Photoionization detector.

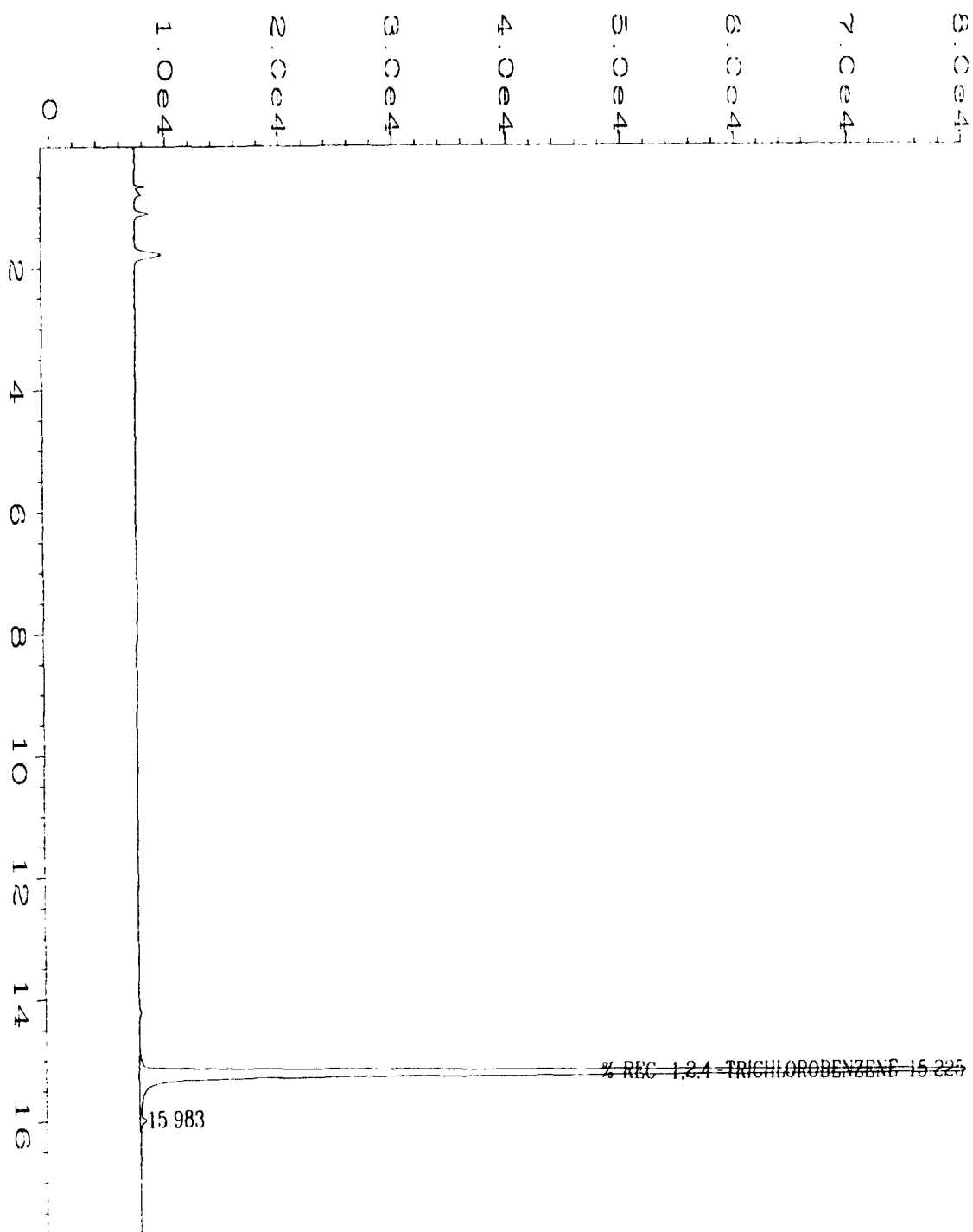
FID = Flame ionization detector.

TVH = Total Volatile Hydrocarbons.


Analyst


Approved

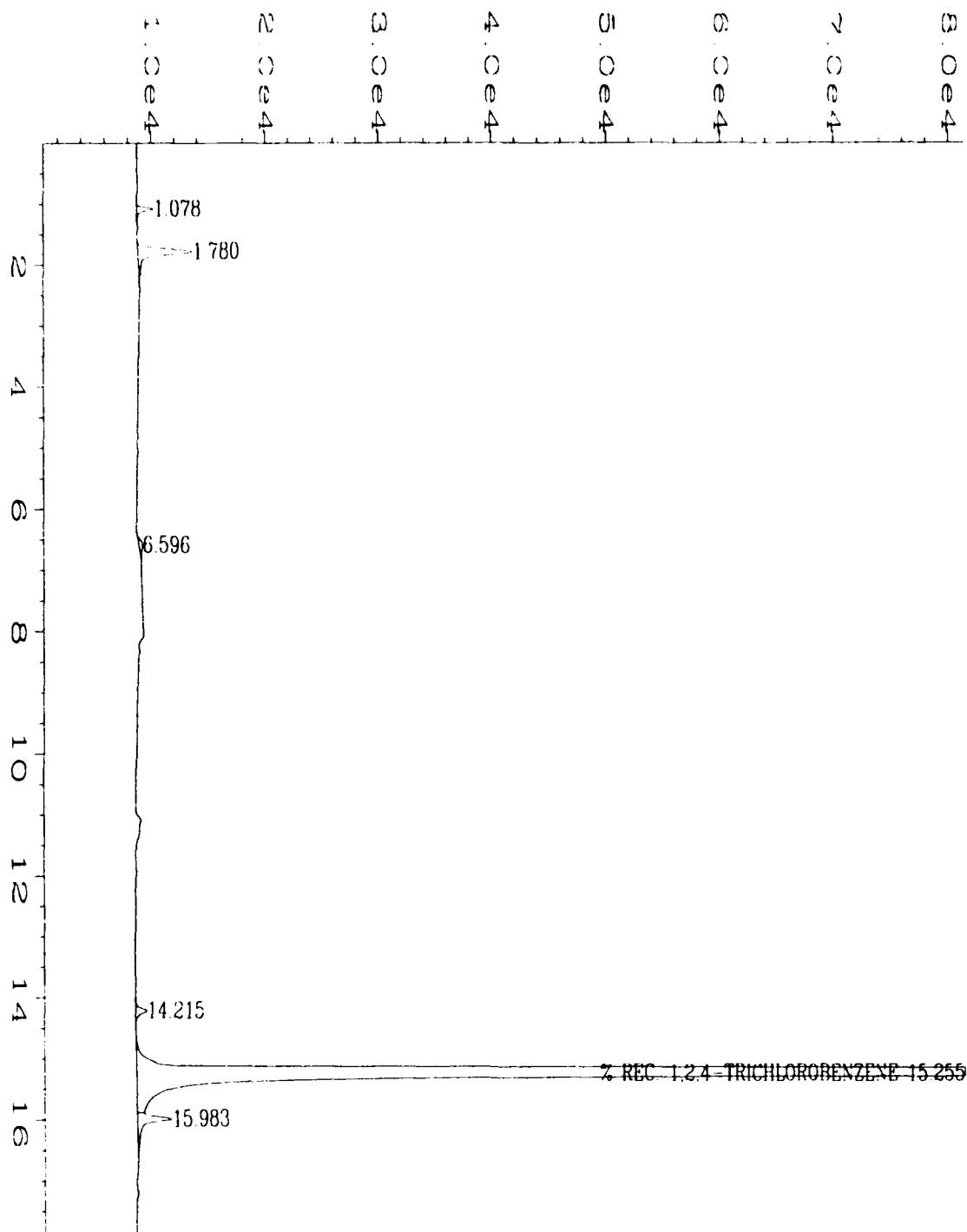
TVBP1849.XLS 6/10/96 12



% REC 1.24 TRICHLORO BENZENE 15.225

15.983

Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\053F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 53
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-11A;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TVW0409F
Acquired on	: 07 Jun 96 04:05 AM	Analysis Method	: TVW0409B.mf
Report Created on:	07 Jun 96 04:24 AM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-18S; WATER		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\053R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 53
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-11A;1	Sequence Line	: 1
Time Bar Code:		Instrument Method	: TVW0409B.MTH
Acquired on	: 07 Jun 96 04:05 AM	Analysis Method	: BXW0601.MTH
Report Created on	: 07 Jun 96 04:24 AM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-18S; WATER		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methods 602/8020 and 5030/8015 Modified Data Report

Client Sample Number : FIELD BLANK Client Project Number : Madison ANGB
Lab Sample Number : 96-1849-12 Lab Work Order : 96-1849
Date Sampled : 6/5/96 Matrix : WATER
Date Received : 6/6/96 Lab File Number(s) : TVBX0605044
Date Prepared : 6/6/96 Method Blank : MB060696-W
FID Dilution Factor : 1.0
PID Dilution Factor : 1.0

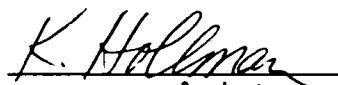
Compound Name	Cas Number	Analysis Date	Sample Concentration	RL	Units
TVH-Gasoline	----	6/6/96	U	0.1	mg/L
Benzene	71-43-2	6/6/96	U	0.4	ug/L
Toluene	108-88-3	6/6/96	U	0.4	ug/L
Chlorobenzene	108-90-7	6/6/96	U	0.4	ug/L
Ethyl Benzene	100-41-4	6/6/96	U	0.4	ug/L
Total Xylenes (m,p,o)	1330-20-7	6/6/96	U	0.4	ug/L
1,3,5-Trimethylbenzene	108-67-8	6/6/96	U	0.4	ug/L
1,2,4-Trimethylbenzene	95-63-6	6/6/96	U	0.4	ug/L
1,2,3-Trimethylbenzene	526-73-8	6/6/96	U	0.4	ug/L
1,2,3,4-Tetramethylbenzene	488-23-3	6/6/96	U	0.5	ug/L
FID Surrogate Recovery:		96%		70%-130%	(Lit
PID Surrogate Recovery:		106%		70%-128%	(Limits)

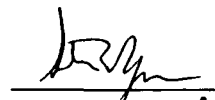
Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak.

Comments:

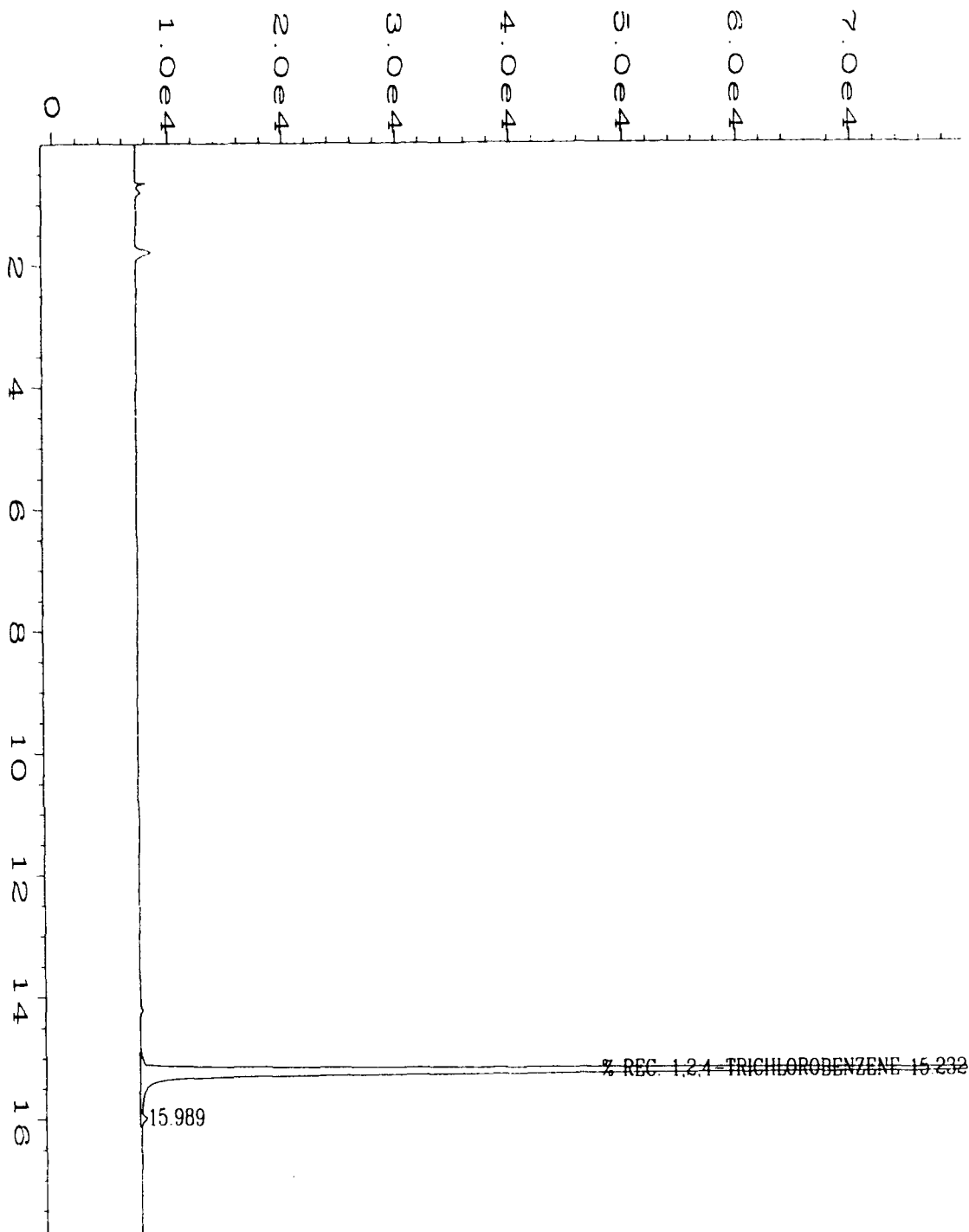
QUALIFIERS and DEFINITIONS:

E = Extrapolated value. Value exceeds calibration range.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
J = Indicates an estimated value when the compound is detected, but is below the Reporting Limit.
RL = Reporting Limit.
NA = Not Available/Not Applicable.
PID = Photoionization detector.
FID = Flame ionization detector.
TVH = Total Volatile Hydrocarbons.

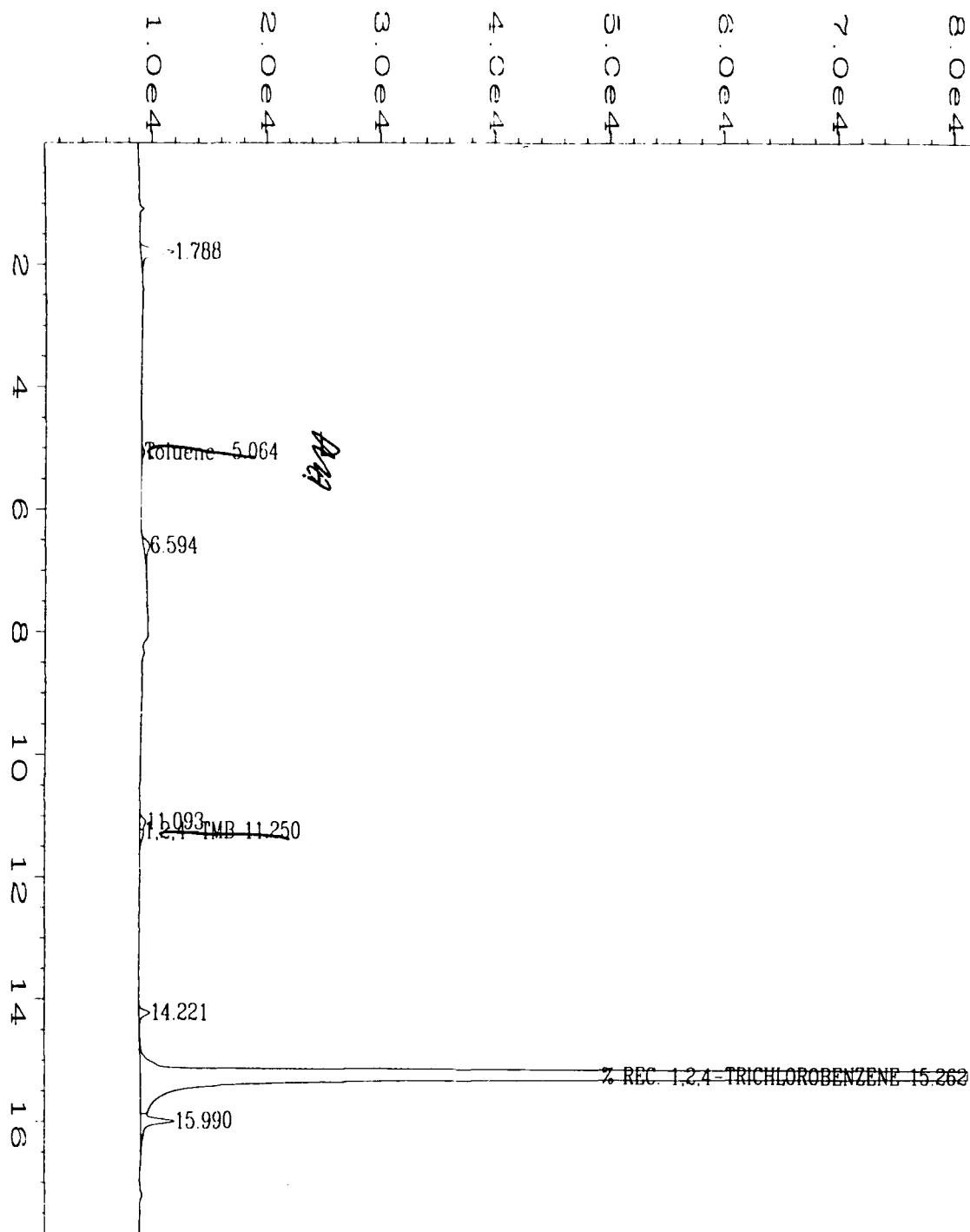

Analyst


Approved

TV8P1849.XLS; 6/10/96; 13



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\044F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 44
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-12A;1	Sequence Line	: 1
Time Bar Code:		Instrument Method	: TVW0409B.MTH
Acquired on	: 06 Jun 96 10:42 PM	Analysis Method	: TVW0409B.MTH
Report Created on	: 06 Jun 96 11:01 PM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: FIELD BLANK; WATER		



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\044R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 44
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 96-1849-12A;1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TVW0409.
Acquired on	: 06 Jun 96 10:42 PM	Analysis Method	: BXW0601.MTH
Report Created on:	06 Jun 96 11:01 PM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: FIELD BLANK; WATER		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St.
Wheat Ridge, CO 80033
(303) 425-6021

EPA 602/8020 Data Report
Laboratory Control Sample (LCS)

LCS Number : LCS060696-BW
Date Extracted/Prepared : 6/6/96
Date Analyzed : 6/7/96
Spike Amount (ug/L) : 20.0

Dilution Factor : 1.00
Method : 602/8020
Matrix : Water
Lab File No. : TVBX00605058

Compound Name	Cas Number	LCS Concentration (ug/L)	LCS % Recovery	QC Limit** % Recovery
Benzene	71-43-2	18.7	93.5	75 - 119
Toluene	108-88-3	18.6	93.0	78 - 121
Chlorobenzene	108-90-7	17.8	89.0	79 - 119
Ethyl Benzene	100-41-4	18.6	93.0	80 - 123
m,p-Xylene	108-38-3	37.0	92.5	79 - 124
o-Xylene	106-42-3			
	95-47-6	18.6	93.0	78 - 122
MTBE	1634-04-4	NA	NA	50 - 150
1,3,5-Trimethylbenzene	108-67-8	16.9	84.5	71 - 127
1,2,4-Trimethylbenzene	95-63-6	18.3	91.5	76 - 118
1,2,3-Trimethylbenzene	526-73-8	22.3	111.5	75 - 131
1,2,3,4-Tetramethylbenzene	488-23-3	20.5	102.5	67 - 138
Surrogate Recovery:		107%		70 - 128

NOTES: m,p-xylene = 40.0 ppb spike.

QUALIFIERS:

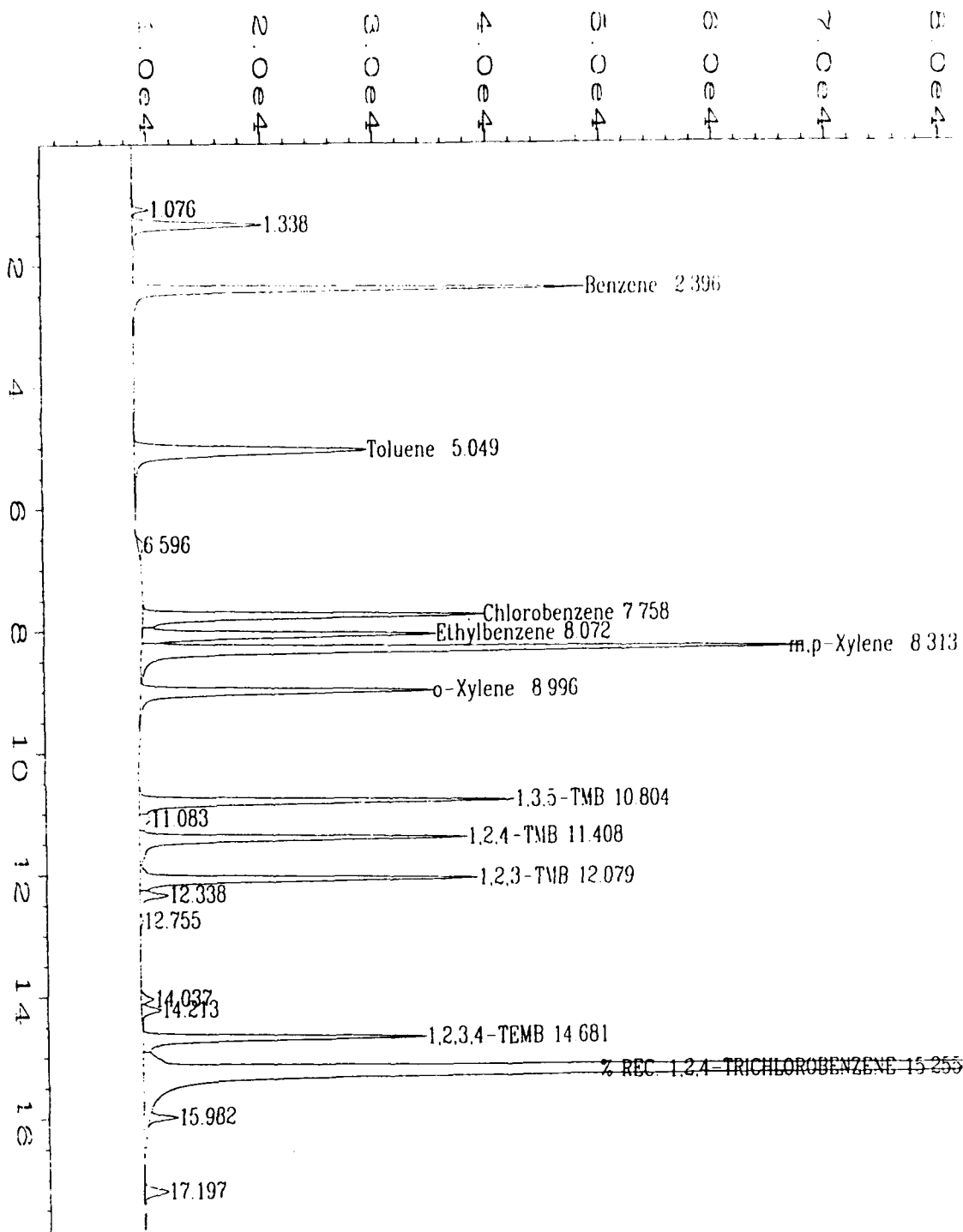
E = Extrapolated value. Value exceeds that of the calibration range.
U = Compound analyzed for, but not detected.
B = Compound found in blank and sample. Compare blank and sample data.
NA = Not available/Not analyzed.
= Limits established 5/21/96 for TVHBTEX2. KSH

K. Holman

Analyst

A. McCall

Approved



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\058R0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 58
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: LCS060696-BW	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TVW0409B.MT
Acquired on	: 07 Jun 96 07:05 AM	Analysis Method	: BXW0601.MTH
Report Created on:	07 Jun 96 07:23 AM	Sample Amount	: 0
Last Recalib on	: 03 JUN 96 11:35 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: 20.0 PPB BTEX/MTBE #1873		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL VOLATILE HYDROCARBONS (TVH as Gasoline)
Laboratory Control Sample (LCS)

LCS Number : LCS060696-GW Matrix : WATER
Date Prepared : 6/6/96 Method Numbers : EPA 5030/8015 Modified
Date Analyzed : 6/7/96 Instrument Name : TVHBTEX2
Lab File Number(s) : TVBX0605057

Compound Name	Theoretical Concentration (mg/L)	LCS Concentration (mg/L)	LCS % Recovery	QC Limit % Recovery
Gasoline	2.00	1.85	92.5	82 - 133

Surrogate Recovery: 99% 70 - 128

QUALIFIERS

B = TVH as Gasoline found in blank also.

E = Extrapolated value. Value exceeds calibration range.

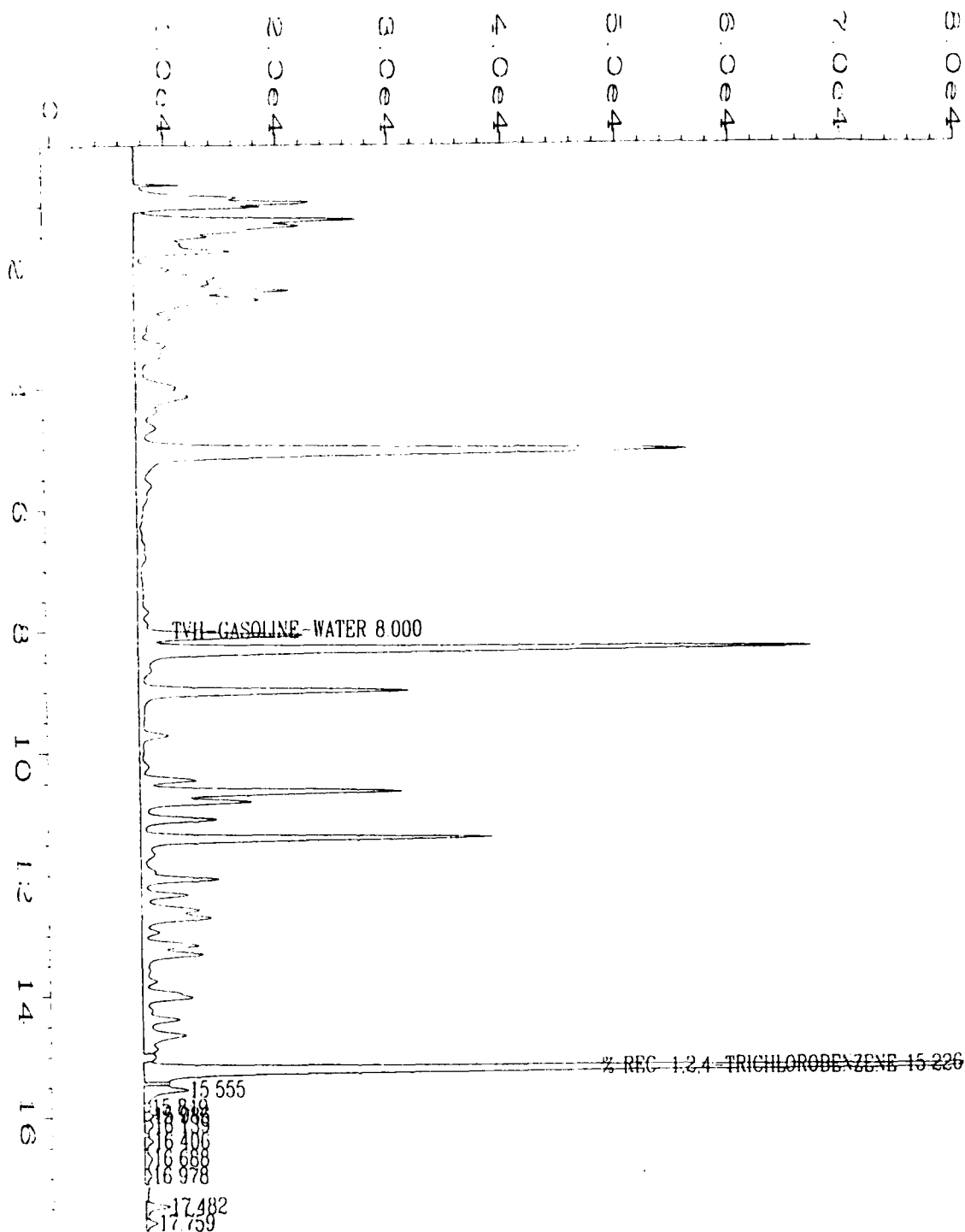
NA = Not Available/Not Applicable.

** = Limits established 5/21/96 for TVHBTEX2. KSH

K. Hollman
Analyst

AmCell
Approved

LCS0606 YLS: 11:51 AM: 6/7/96



Data File Name	: C:\HPCHEM\2\DATA\TVBX0605\057F0101.D	Page Number	: 1
Operator	: KAPRIE S. HOLLMAN	Vial Number	: 57
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: LCS060696-GW	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TVW0409B.MT
Acquired on	: 07 Jun 96 06:29 AM	Analysis Method	: TVW0409B.MT
Report Created on	: 07 Jun 96 06:47 AM	Sample Amount	: 0
Last Recalib on	: 09 APR 96 10:42 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: 2.00 PPM GASOLINE #1882.		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL EXTRACTABLE HYDROCARBONS (TEH-JP-4)

Date Sampled : 6/5/96 Client Project Number : Madison ANGB
Date Received : 6/6/96 Lab Work Order : 96-1849
Date Prepared : 6/7/96 Method Number : EPA 3500/8015 Modified

Evergreen Sample #	Dilution Factor	Client Sample #	Matrix	Analysis Date	Surrogate Recovery	Sample Result	RL	Units
WB060796	1	Water Method Blan	Water	6/12/96	100%	U	0.5	mg/L
96-1849-02	1	MW-9	Water	6/13/96	88%	1.7	0.5	mg/L
96-1849-05	2	MW-8	Water	6/13/96	79%	2.5	1.0	mg/L

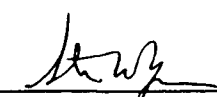
Qualifiers

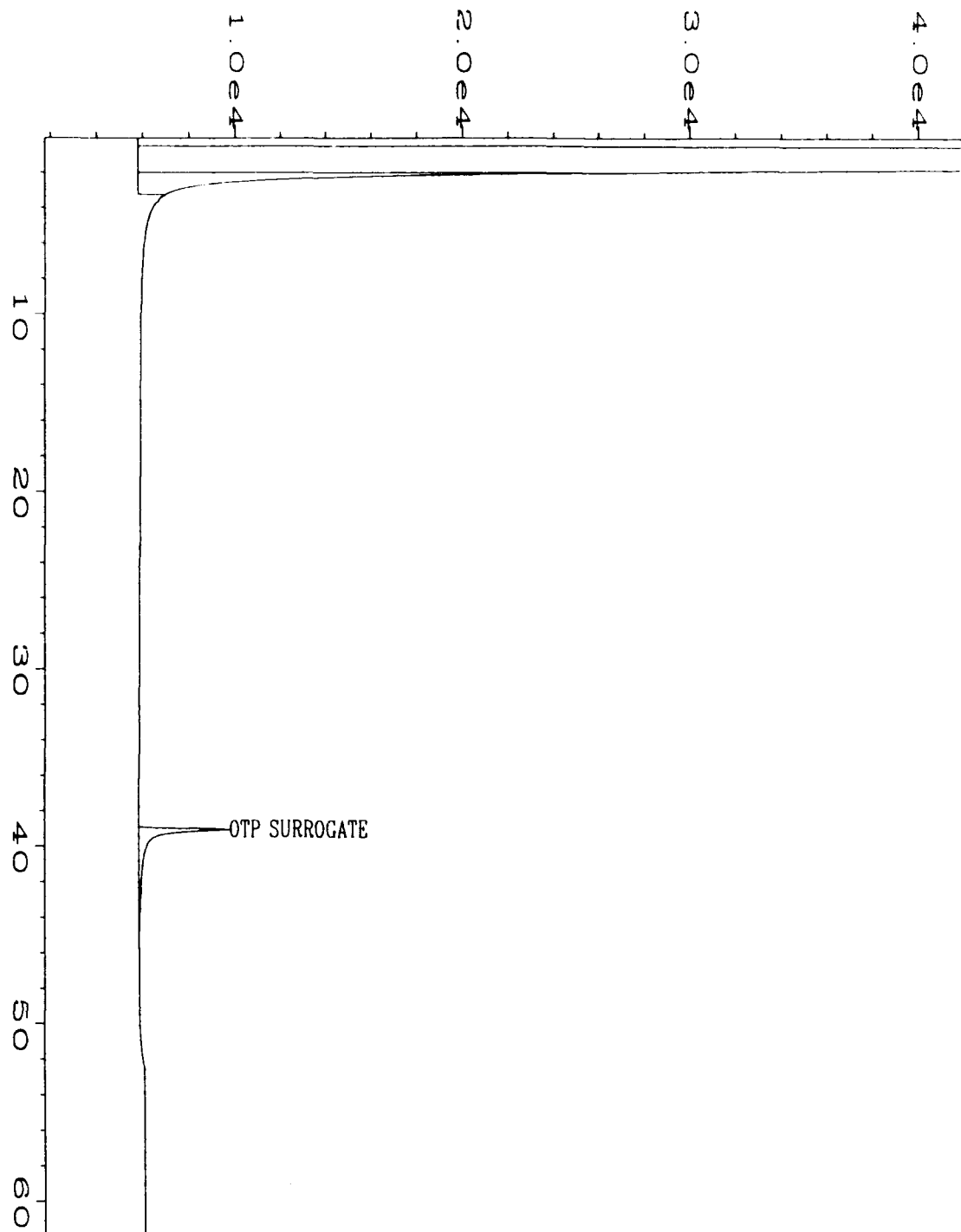
U = TEH analyzed for, but not detected.
B = TEH-JP-4 also found in blank.
E = Extrapolated value. Value exceeds calibration range.
RL = Reporting Limit.

Notes

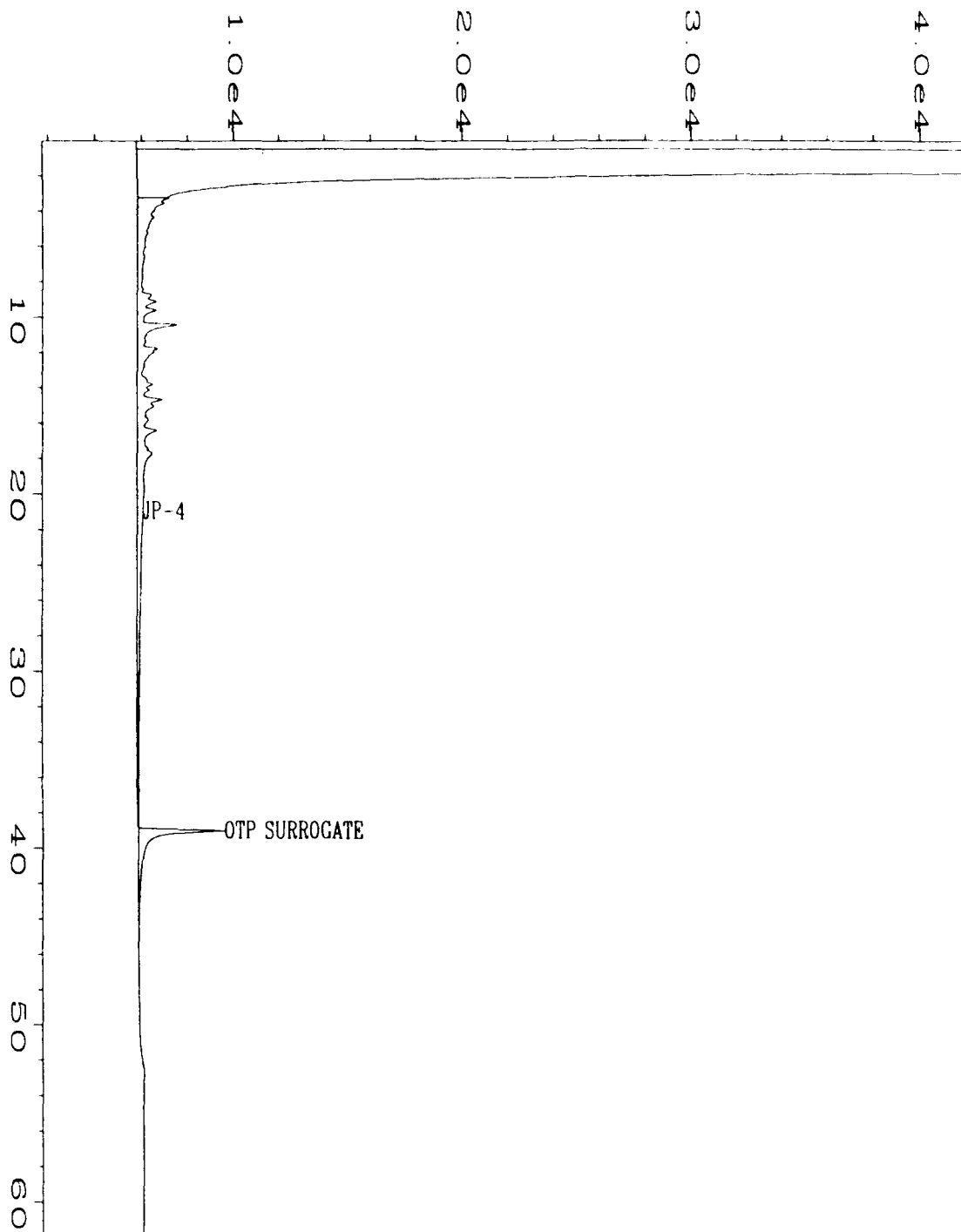
Surrogate = OTP
* = Based on dry weight


Analyst

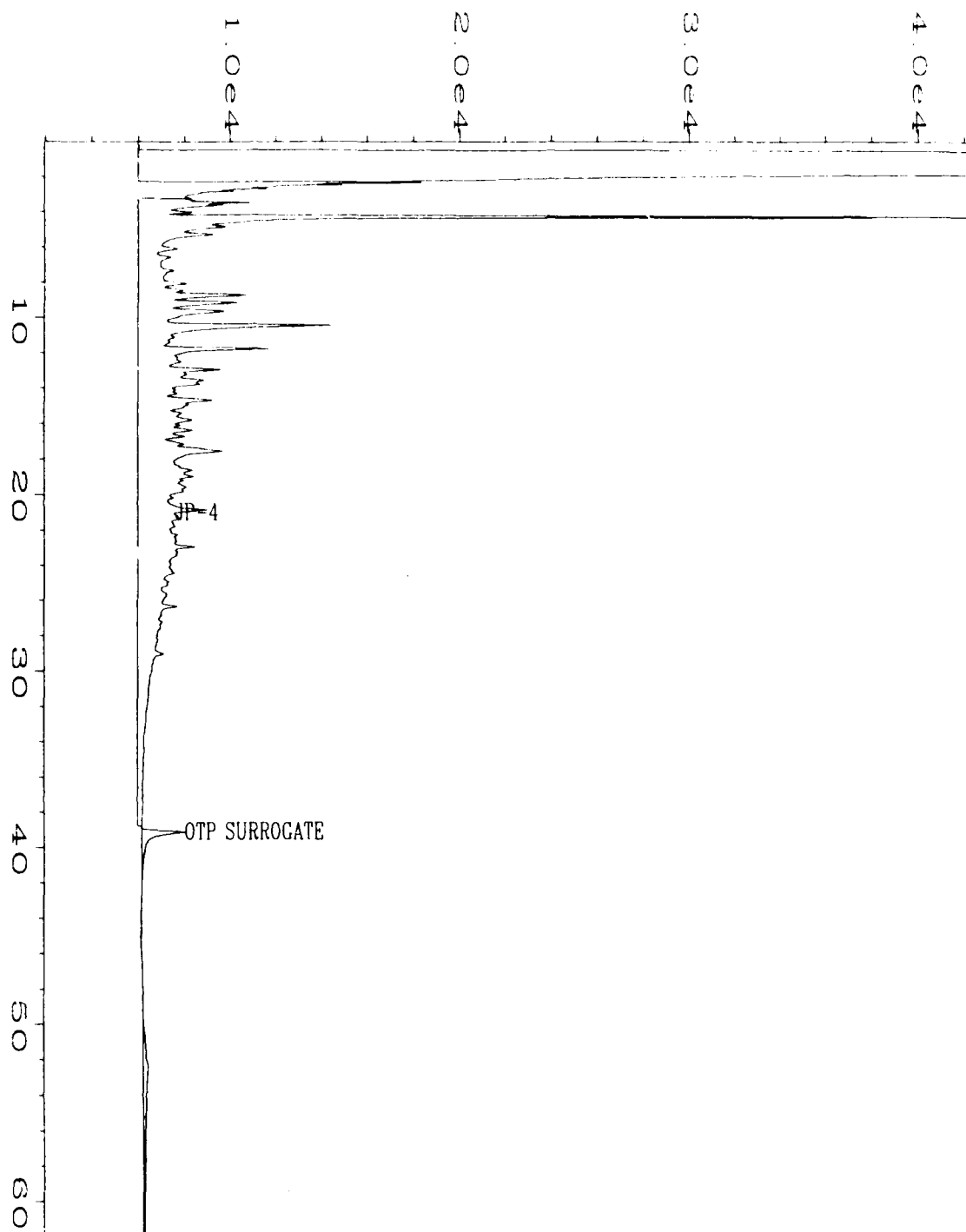

Approved



Data File Name	: C:\HPCHEM\FID1\DATA\fid10611\024F0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 24
Instrument	: FID1	Injection Number	: 1
Sample Name	: WB060796	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: FIDMETRO.
Acquired on	: 12 Jun 96 08:04 PM	Analysis Method	: FIDJ0611.MT
Report Created on	: 13 Jun 96 11:00 AM	Sample Amount	: 0
Last Recalib on	: 12 JUN 96 04:11 PM	ISTD Amount	:
Multiplier	: 1		



Data File Name	: C:\HPCHEM\FID1\DATA\fid10611\033F0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 33
Instrument	: FID1	Injection Number	: 1
Sample Name	: 96-1849-02;1	Sequence Line	: 1
Time Bar Code:		Instrument Method	: FIDMETRO.MTH
Acquired on	: 13 Jun 96 07:11 AM	Analysis Method	: FIDJ0611.MTH
Report Created on	: 13 Jun 96 11:01 AM	Sample Amount	: 0
Last Recalib on	: 12 JUN 96 04:11 PM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-9;Water		



Data File Name	: C:\HPCHEM\FID1\DATA\FID10611\039F0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 39
Instrument	: FID1	Injection Number	: 1
Sample Name	: 96-1849-05;2	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	FIDMETRA
Acquired on	: 13 Jun 96 07:45 PM	Analysis Method	: FIDJ0611.MT
Report Created on:	14 Jun 96 07:06 AM	Sample Amount	: 0
Last Recalib on	: 12 JUN 96 04:11 PM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: Mw-8; water		

Evergreen Analytical, Inc.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

TOTAL EXTRACTABLE HYDROCARBONS (TEH as JP-4)
TEH Laboratory Control Spike/Laboratory Control Spike Duplicate Data Report

LCS Number : LCSII060796w Matrix : Water
Date Prepared : 6/7/96 Method Number : EPA 3500/8015 Modified
Date Analyzed : 6/12,13/96
Lab File No. : FID10611027,028

Compound	Spike Added (mg/L)	Sample Blank Concentration (mg/L)	LCS* Concentration (mg/L)	LCS %REC	QC Limits %REC
JP-4	1000	0	994	99.4	50-121
Surrogate	NA	100%	89%	NA	50-150

Compound	Spike Added (mg/L)	LCSD* Concentration (mg/L)	LCSD %REC	RPD	RPD	QC Limits %REC
JP-4	1000	905	90.5	9.4	50	50-121
Surrogate	NA	91%	NA	NA	NA	50-150

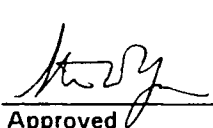
RPD: 0 out of (1) outside limits.
Spike Recovery: 0 out of (2) outside limits.

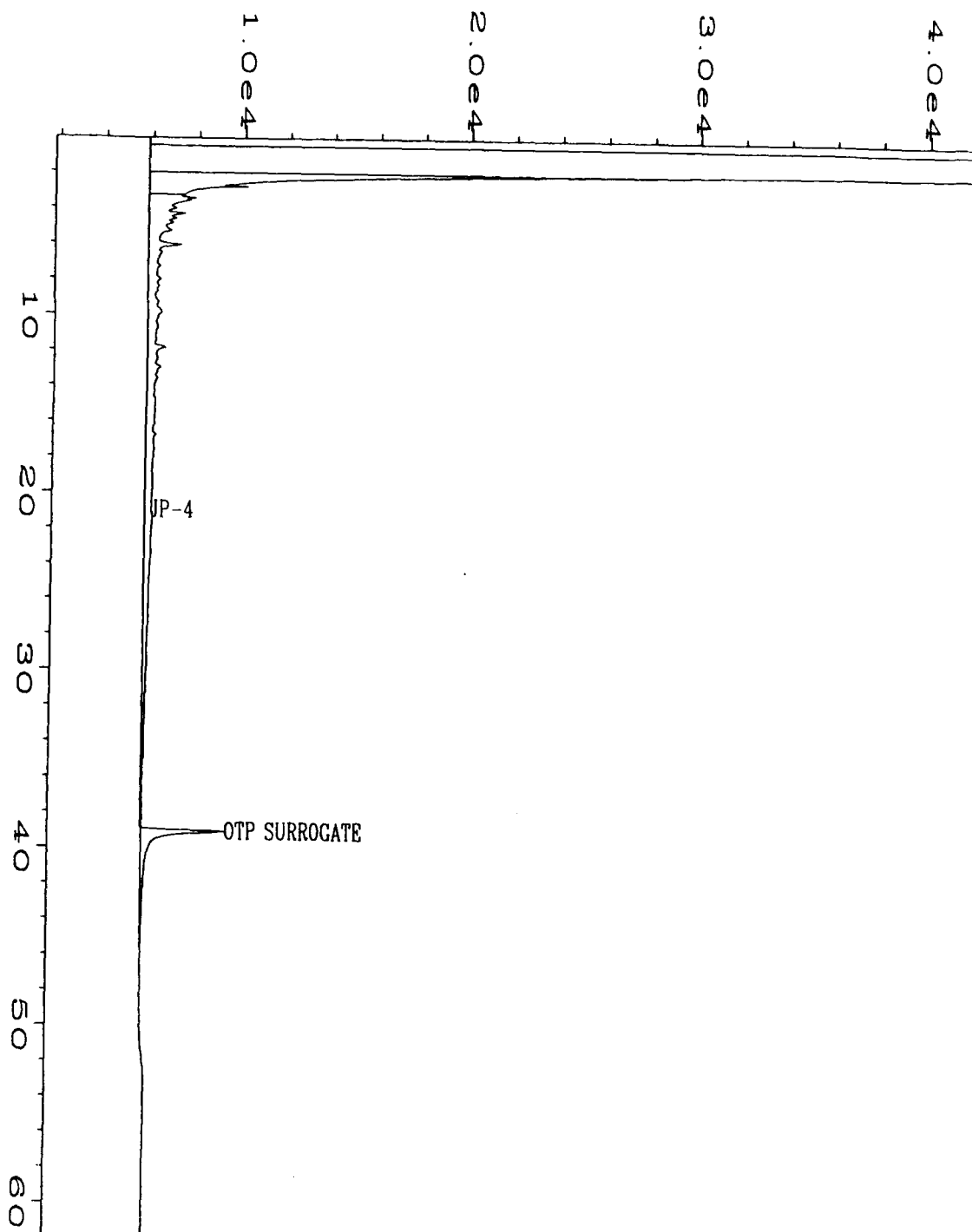
Notes

** = Values outside of QC limits.
NA = Not analyzed/not applicable.

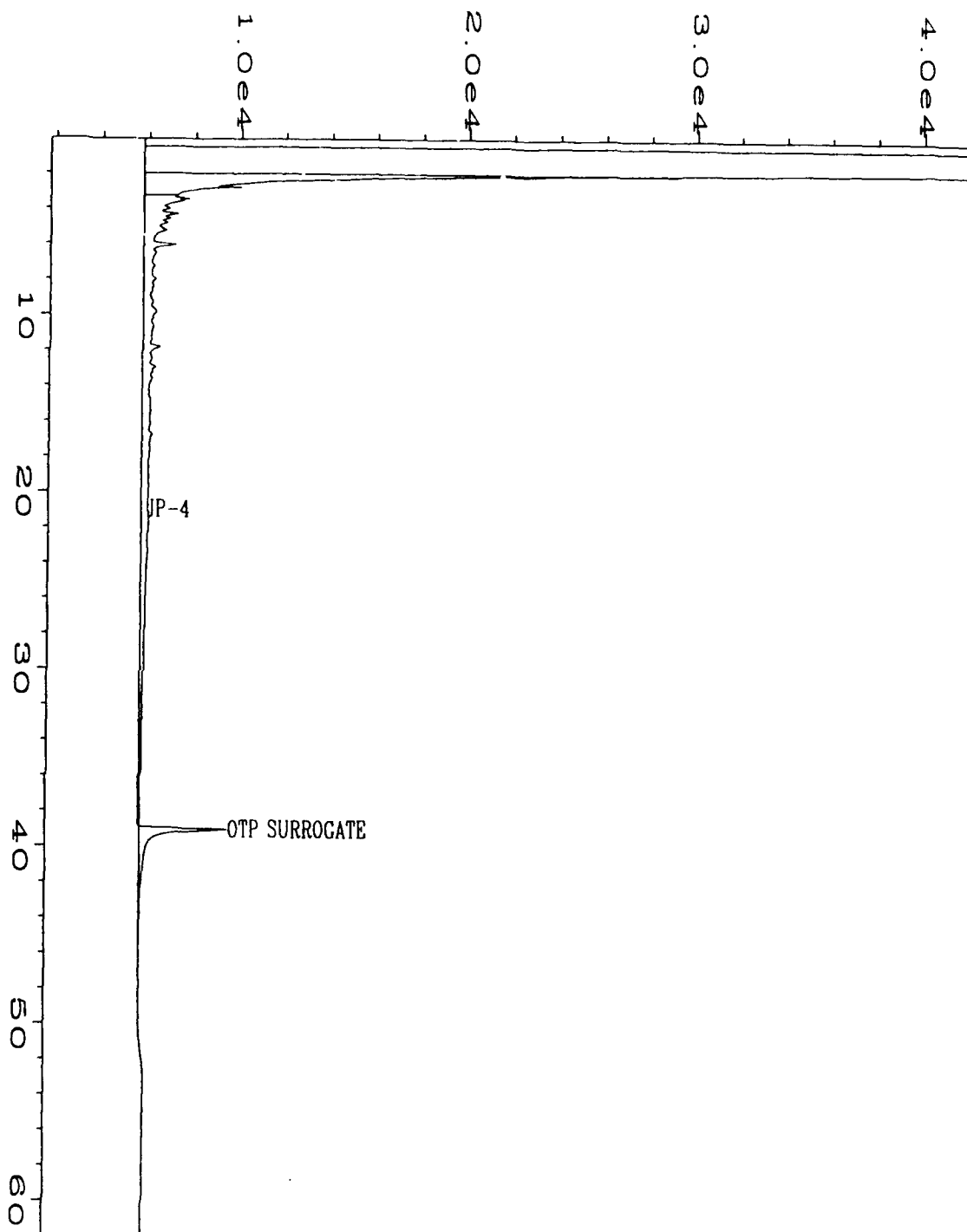
Comments: * LCS concentrations are reported based on the one ml extract volume.


Analyst


Approved



Data File Name	: C:\HPCHEM\FID1\DATA\fid10611\027F0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 27
Instrument	: FID1	Injection Number	: 1
Sample Name	: LCS1060796w	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: FIDMETRO....I
Acquired on	: 12 Jun 96 11:44 PM	Analysis Method	: FIDJ0611.MTH
Report Created on:	13 Jun 96 11:00 AM	Sample Amount	: 0
Last Recalib on	: 12 JUN 96 04:11 PM	ISTD Amount	:
Multiplier	: 1		



Data File Name	: C:\HPCHEM\FID1\DATA\fid10611\028F0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 28
Instrument	: FID1	Injection Number	: 1
Sample Name	: LCSII060796w	Sequence Line	: 1
Time Bar Code:		Instrument Method:	FIDMETRO.MTH
Acquired on	: 13 Jun 96 00:58 AM	Analysis Method	: FIDJ0611.MTH
Report Created on:	13 Jun 96 11:00 AM	Sample Amount	: 0
Last Recalib on	: 12 JUN 96 04:11 PM	ISTD Amount	:
Multiplier	: 1		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form
Method Blank Report

Method Blank Number	: GB061496	Client Project No.	: Madison ANGB
Date Extracted/Prepared	: 6/14/96	Lab Work Order	: 96-1849
Date Analyzed	: 6/14/96	Dilution Factor	: 1.00
		Method	: RSKSOP-175
		Matrix	: Water
		Lab File No.	: GAS0614002

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.002

Qualifiers

E = Extrapolated value.

U = Compound analyzed for, but not detected.

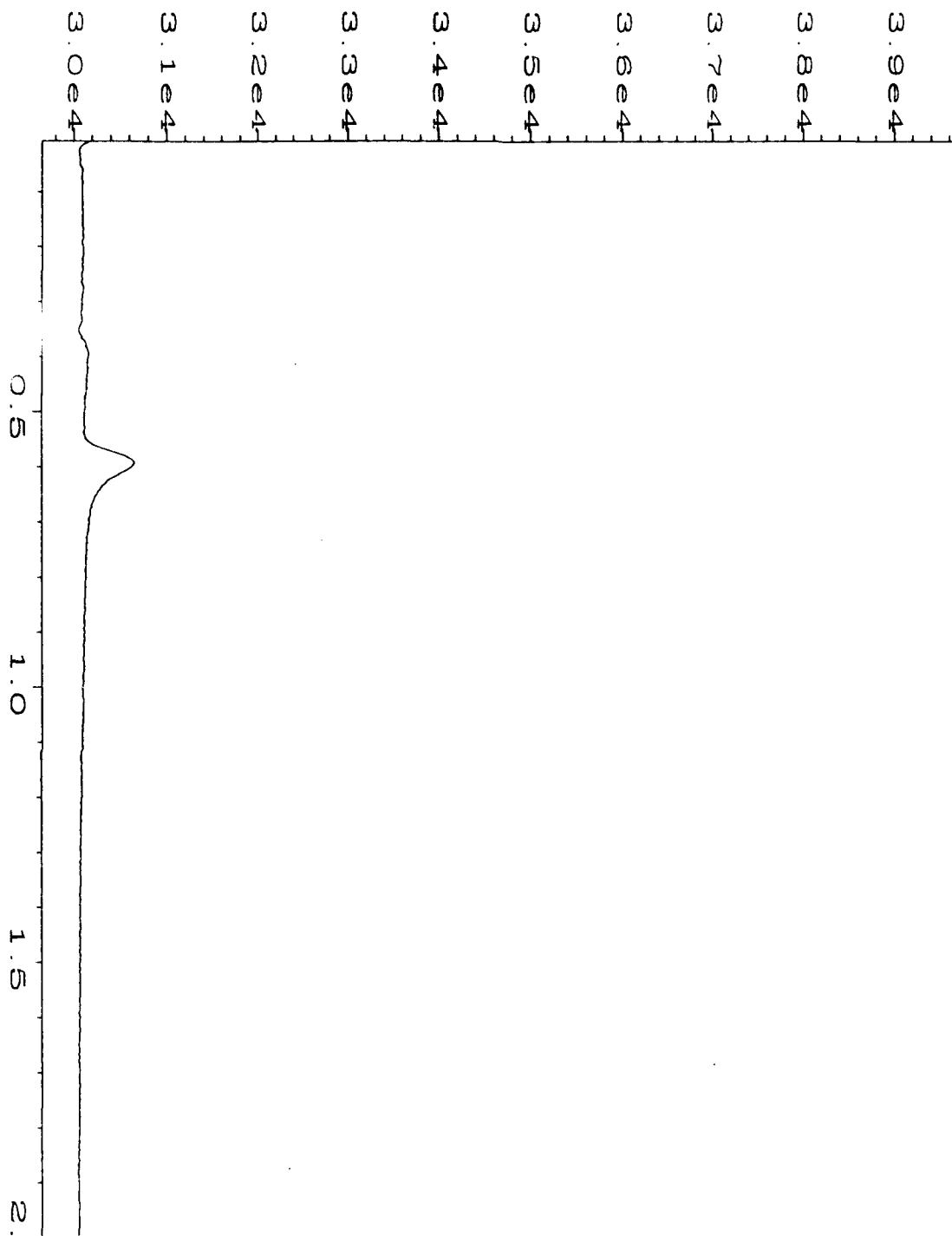
B = Compound also found in the blank.

RL = Reporting Limit.

NA = Not Available/Not Applicable.


Analyst


Approved



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\002R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 2
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: GB061496	Sequence Line	: 1
Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 14 Jun 96 09:30 AM	Analysis Method	: GAS0614.MTH
Report Created on	: 17 Jun 96 10:39 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: Gas Method Blank		
	Displaced 4ml of deionized water in 43ml vial with Helium		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: MW-11	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1849-01	Lab Work Order	: 96-1849
Date Sampled	: 6/5/96	Dilution Factor	: 1.00
Date Received	: 6/6/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614019

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.002

Temperature	: 84 F	Saturation	Meth
Amount Injected	: 0.5 ml	Concentration	
Total Volume of Sample	: 43 ml	Concentration	Meth
Head space created	: 4 ml	in Head Space	
Methane Area	: 0 ug		

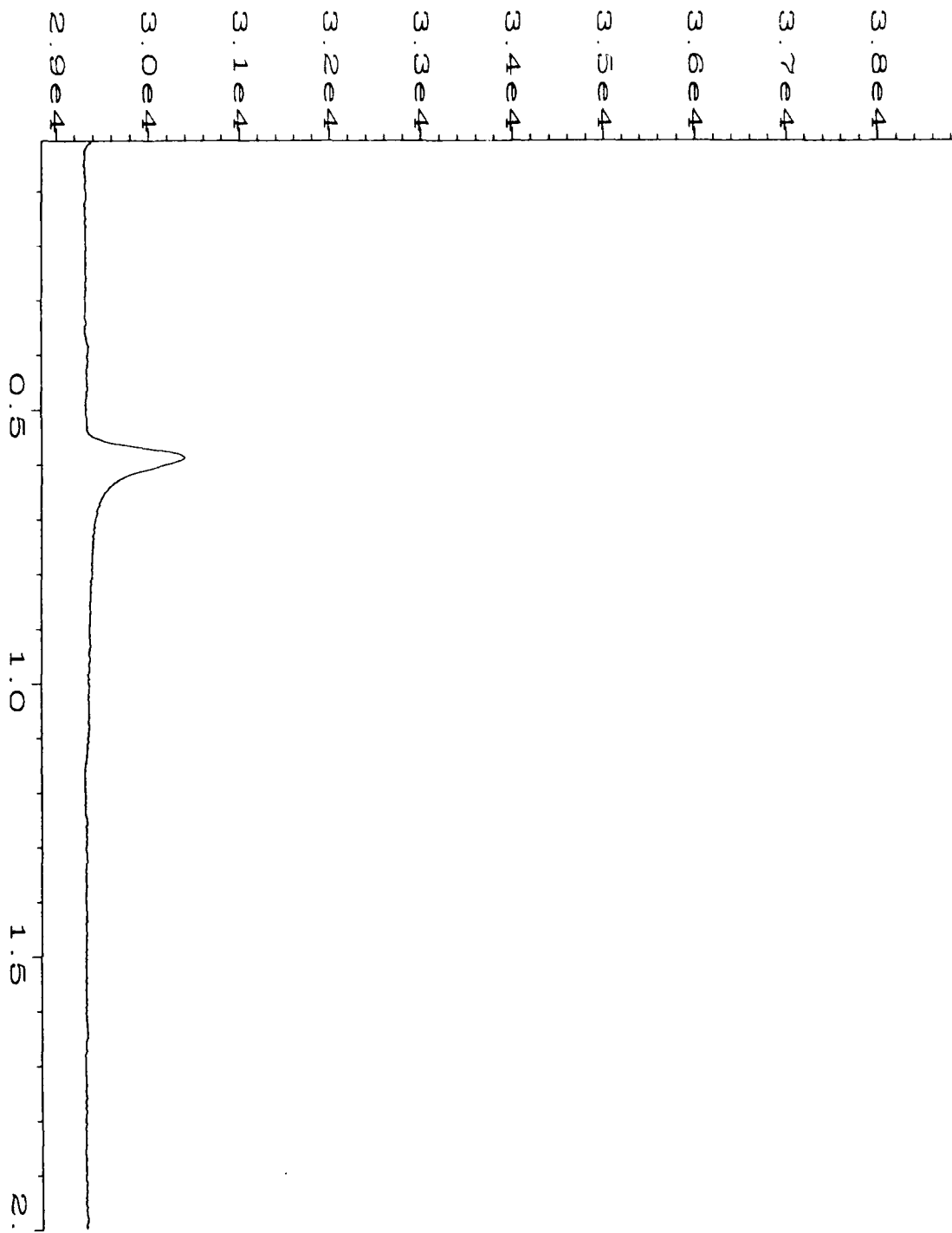
Atomic weight(Methane) : 16 g

Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\019R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 19
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1849-01;1	Sequence Line	: 1
Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 14 Jun 96 01:34 PM	Analysis Method	: GAS0614.MTH
Report Created on:	17 Jun 96 10:40 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-11;Water		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: MW-9	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1849-02	Lab Work Order	: 96-1849
Date Sampled	: 6/5/96	Dilution Factor	: 50.00
Date Received	: 6/6/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614020

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	1.7	0.1

Temperature	: 84.1 F	Saturation Meth	: 0.4050
Amount Injected	: 0.01 ml	Concentration Meth	: 1.24767985
Total Volume of Sample	: 43 ml	Concentration in Head Space	
Head space created	: 4 ml		
Methane Area	: 188.365 ug		

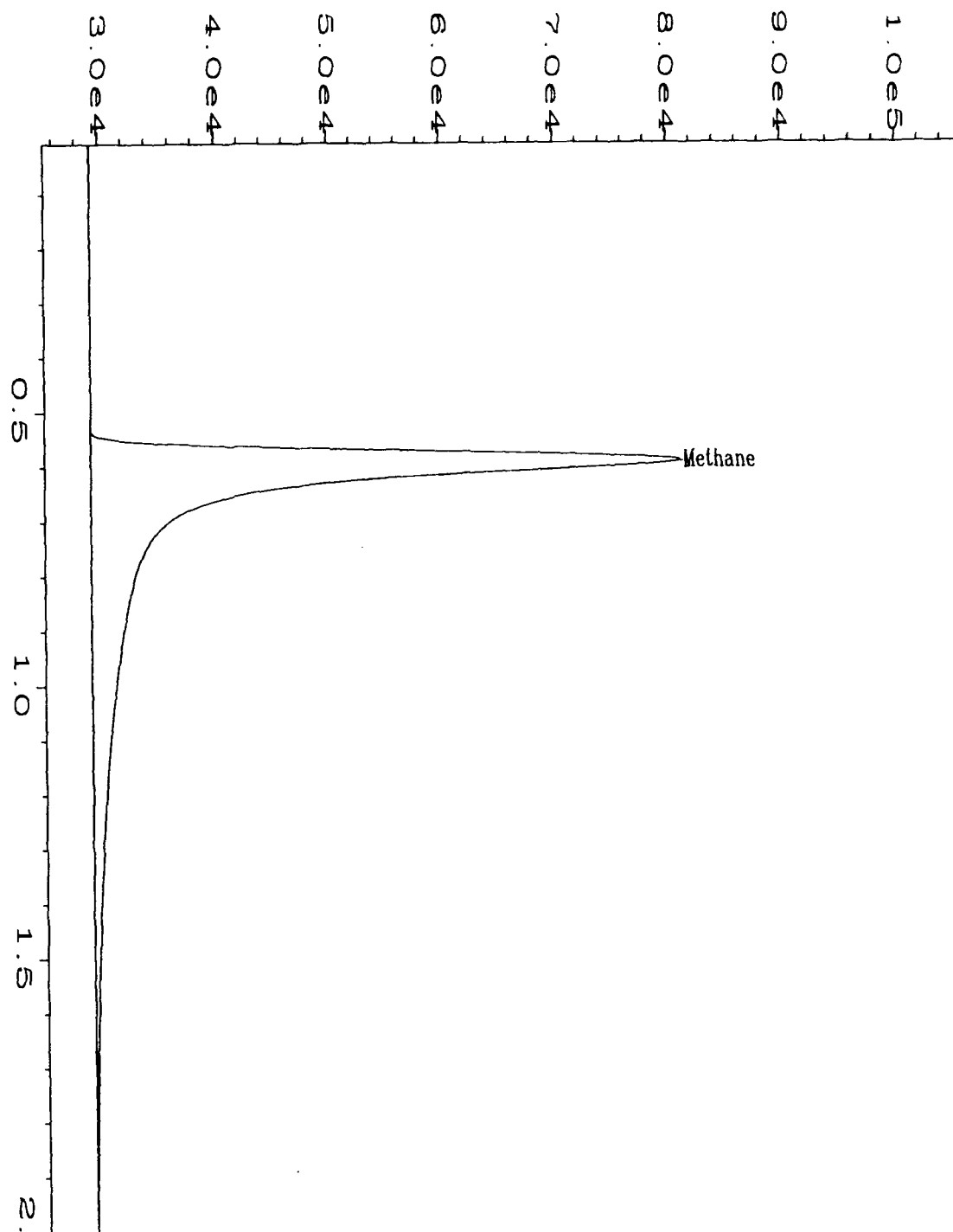
Atomic weight(Methane) : 16 g

Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\020R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 20
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1849-02;50	Sequence Line	: 1
Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 14 Jun 96 01:43 PM	Analysis Method	: GAS0614.MTH
Report Created on:	17 Jun 96 10:41 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-9;Water		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: MW-10	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1849-03	Lab Work Order	: 96-1849
Date Sampled	: 6/5/96	Dilution Factor	: 100.00
Date Received	: 6/6/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614021

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	5.9	0.2

Temperature	: 84.3 F	Saturation Meth	: 1.434
Amount Injected	: 0.005 ml	Concentration Meth	: 4.41637962
Total Volume of Sample	: 43 ml	Concentration Meth	: 4.41637962
Head space created	: 4 ml	in Head Space	
Methane Area	: 333.498 ug		

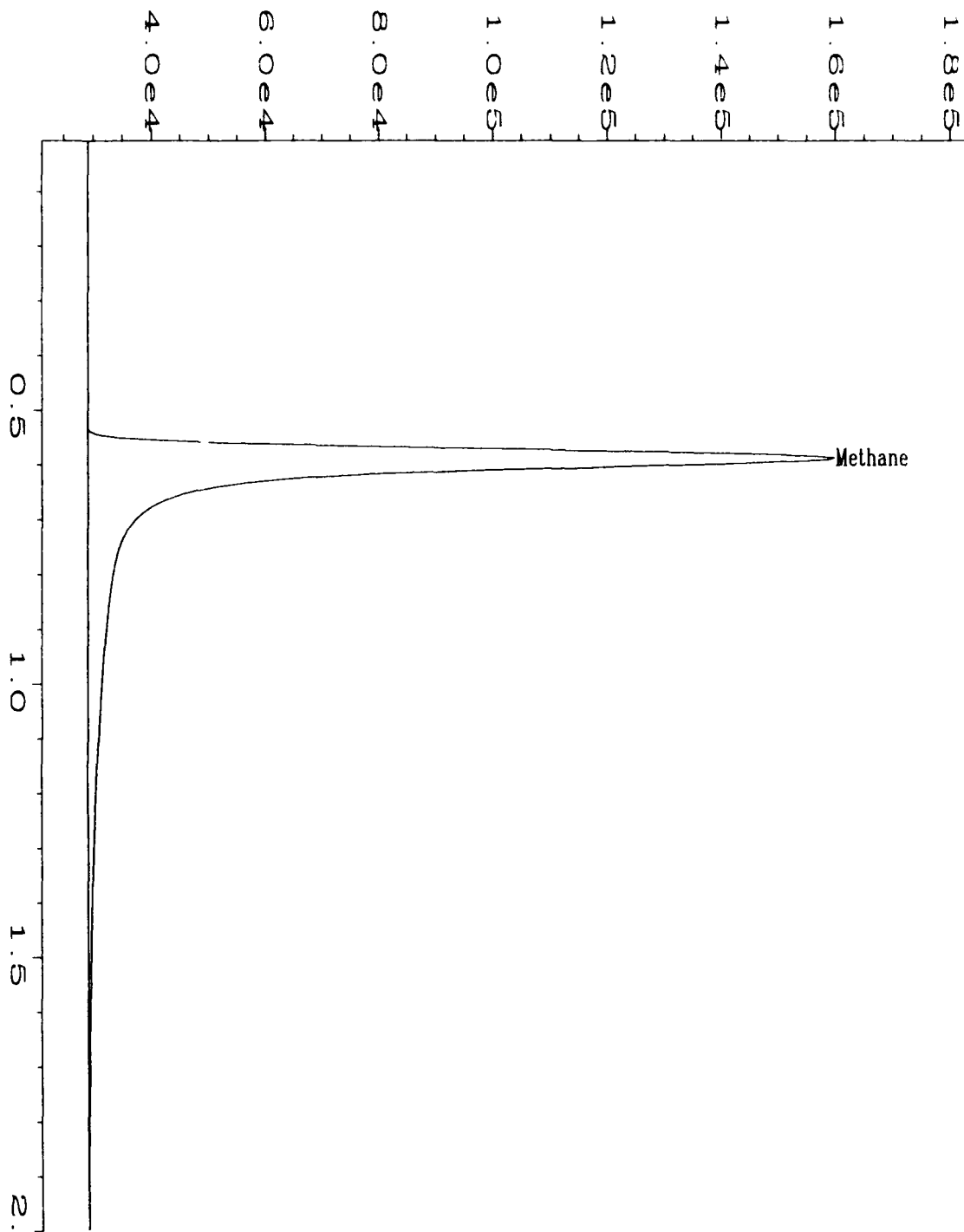
Atomic weight(Methane) : 16 g

Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\021R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 21
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1849-03;100	Sequence Line	: 1
Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 14 Jun 96 02:01 PM	Analysis Method	: GAS0614.MTH
Report Created on:	17 Jun 96 10:41 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-10;Water		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: MW-30	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1849-04	Lab Work Order	: 96-1849
Date Sampled	: 6/5/96	Dilution Factor	: 100.00
Date Received	: 6/6/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614022

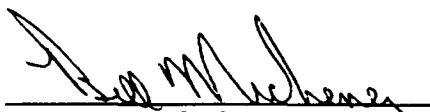
Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	6.9	0.2

Temperature	: 84.3 F	Saturation Meth	: 1.689 C
Amount Injected	: 0.005 ml	Concentration	
Total Volume of Sample	: 43 ml	Concentration Meth	: 5.20161265
Head space created	: 4 ml	in Head Space	
Methane Area	: 392.794 ug		

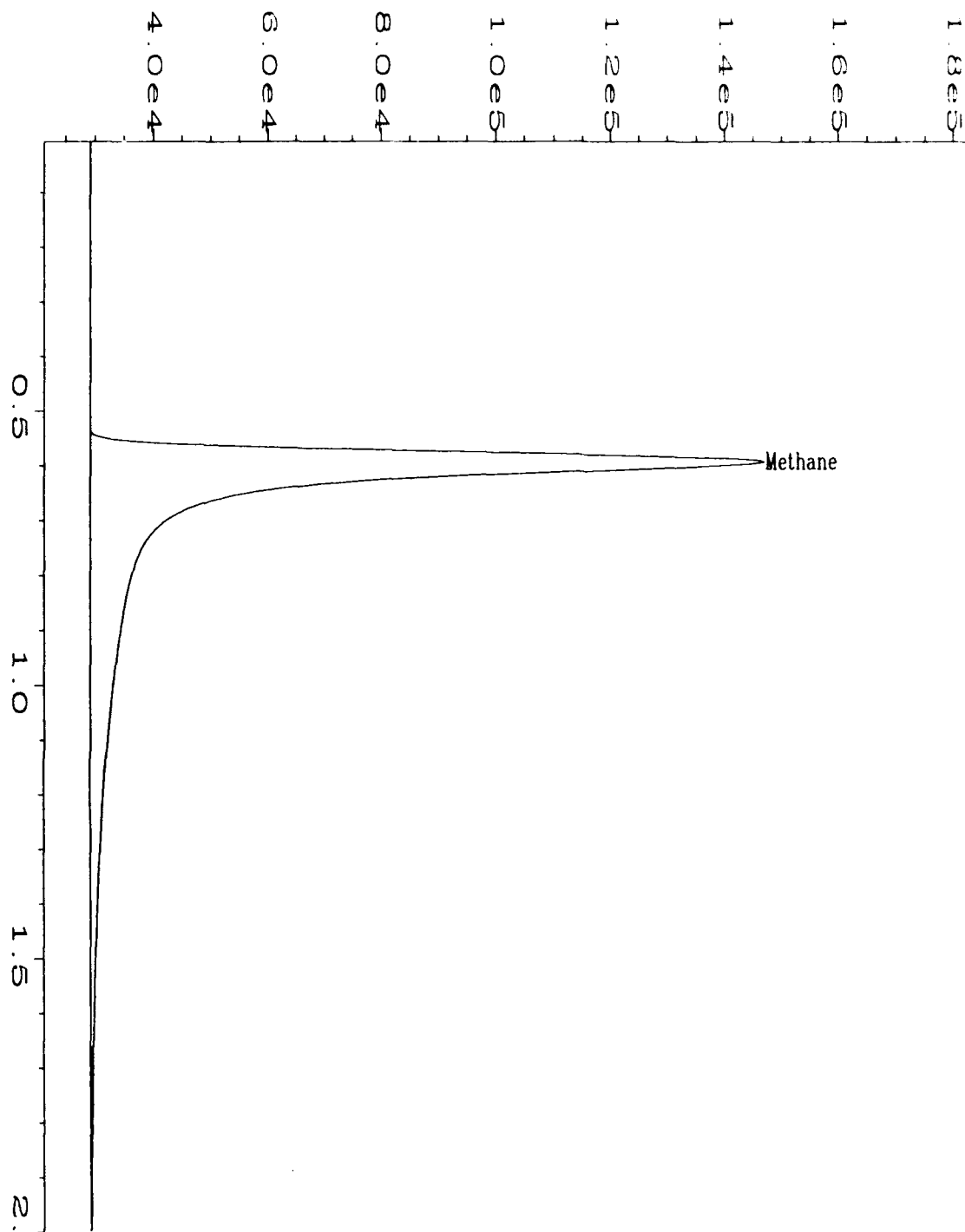
Atomic weight(Methane) : 16 g

Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\022R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 22
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1849-04;100	Sequence Line	: 1
Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 14 Jun 96 02:03 PM	Analysis Method	: GAS0614.MTH
Report Created on:	17 Jun 96 10:41 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-30;Water		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: MW-30	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1849-04Dup	Lab Work Order	: 96-1849
Date Sampled	: 6/5/96	Dilution Factor	: 100.00
Date Received	: 6/6/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614023

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	6.9	0.2

Temperature	: 84.2 F	Saturation	Meth	1.69	232
Amount Injected	: 0.005 ml	Concentration			
Total Volume of Sample	: 43 ml	Concentration	Meth	5.21443708	
Head space created	: 4 ml	in Head Space			
Methane Area	: 393.69 ug				

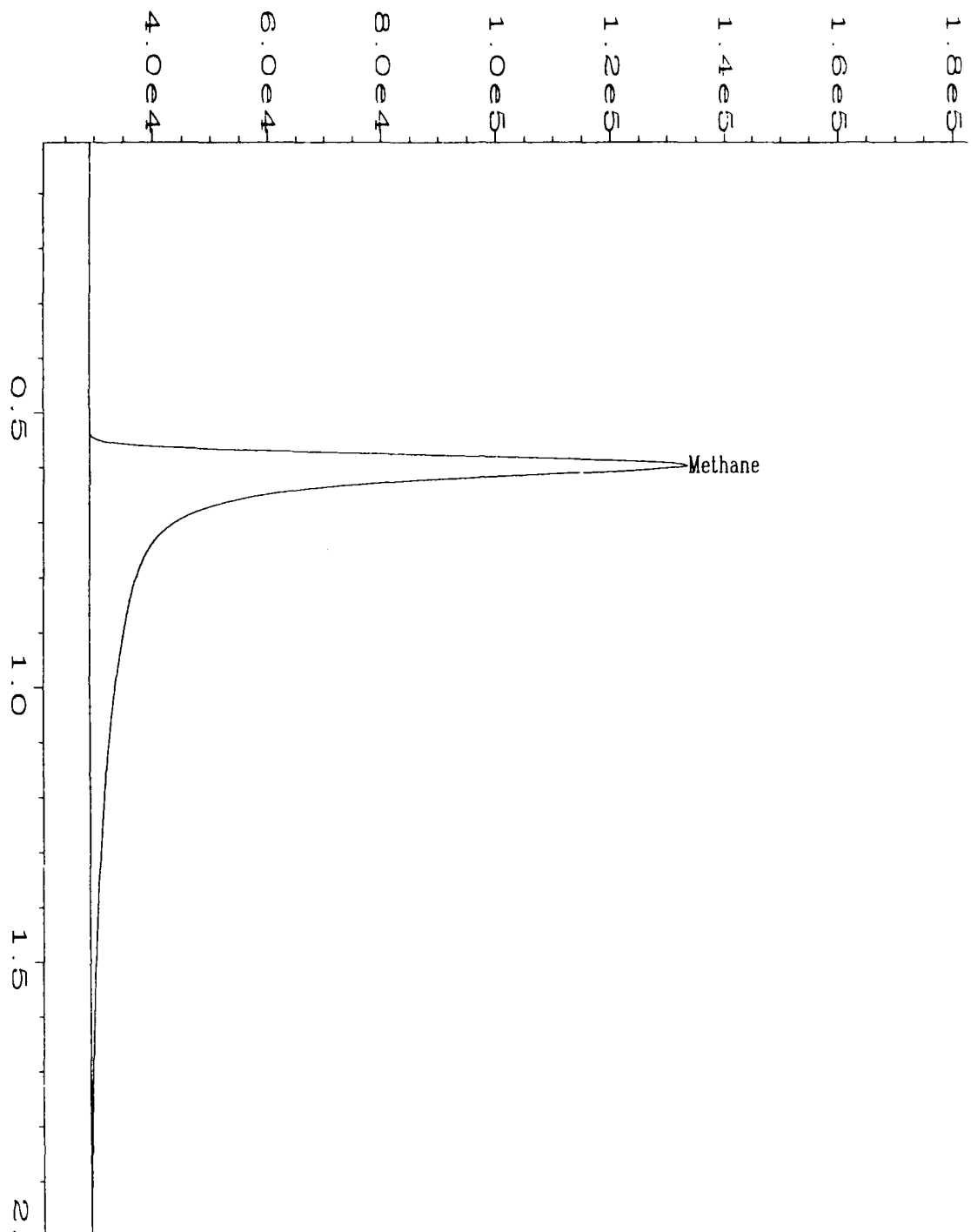
Atomic weight(Methane) : 16 g

Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\023R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 23
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1849-04Dup100	Sequence Line	: 1
Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 14 Jun 96 02:06 PM	Analysis Method	: GAS0614.MTH
Report Created on:	17 Jun 96 10:41 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-30;Water		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: MW-8	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1849-05	Lab Work Order	: 96-1849
Date Sampled	: 6/5/96	Dilution Factor	: 100.00
Date Received	: 6/6/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614024

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	9.9	0.2

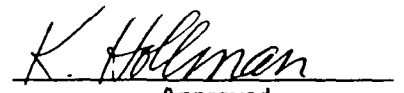
Temperature	: 84.4 F	Saturation	Meth	2.434	10
Amount Injected	: 0.005 ml	Concentration			
Total Volume of Sample	: 43 ml	Concentration	Meth	7.49714895	
Head space created	: 4 ml	in Head Space			
Methane Area	: 566.243 ug				

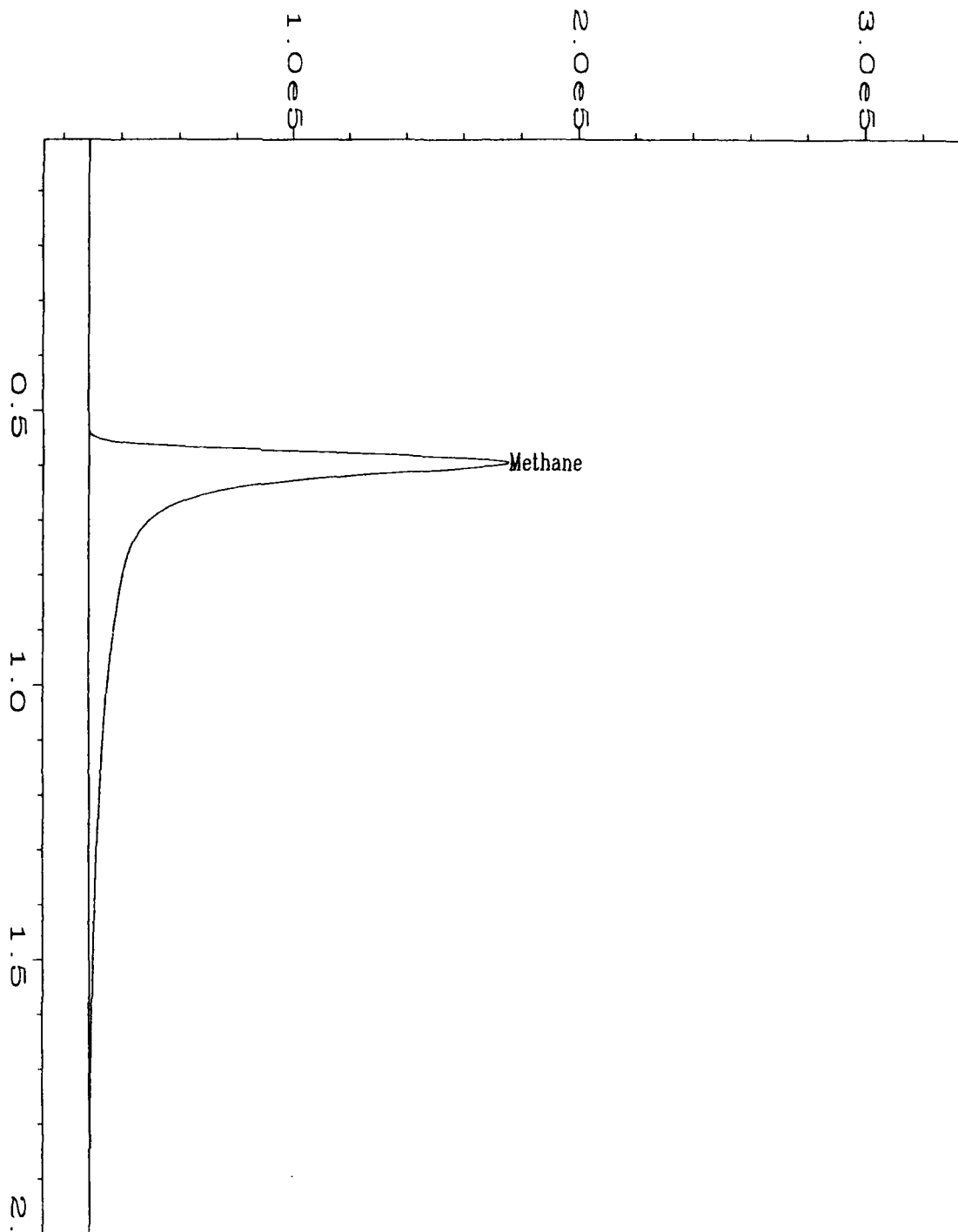
Atomic weight(Methane) : 16 g

Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\024R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 24
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1849-05;100	Sequence Line	: 1
Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 14 Jun 96 02:16 PM	Analysis Method	: GAS0614.MTH
Report Created on	: 17 Jun 96 10:41 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-8;Water		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: MW-22S	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1849-06	Lab Work Order	: 96-1849
Date Sampled	: 6/5/96	Dilution Factor	: 1.00
Date Received	: 6/6/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614025

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.002	0.002

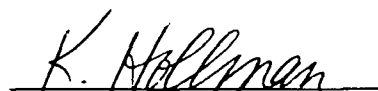
Temperature	: 84.1 F	Saturation	Meth	0.0004	4
Amount Injected	: 0.5 ml	Concentration			
Total Volume of Sample	: 43 ml	Concentration	Meth	0.00139350	
Head space created	: 4 ml	in Head Space			
Methane Area	: 10.519 ug				

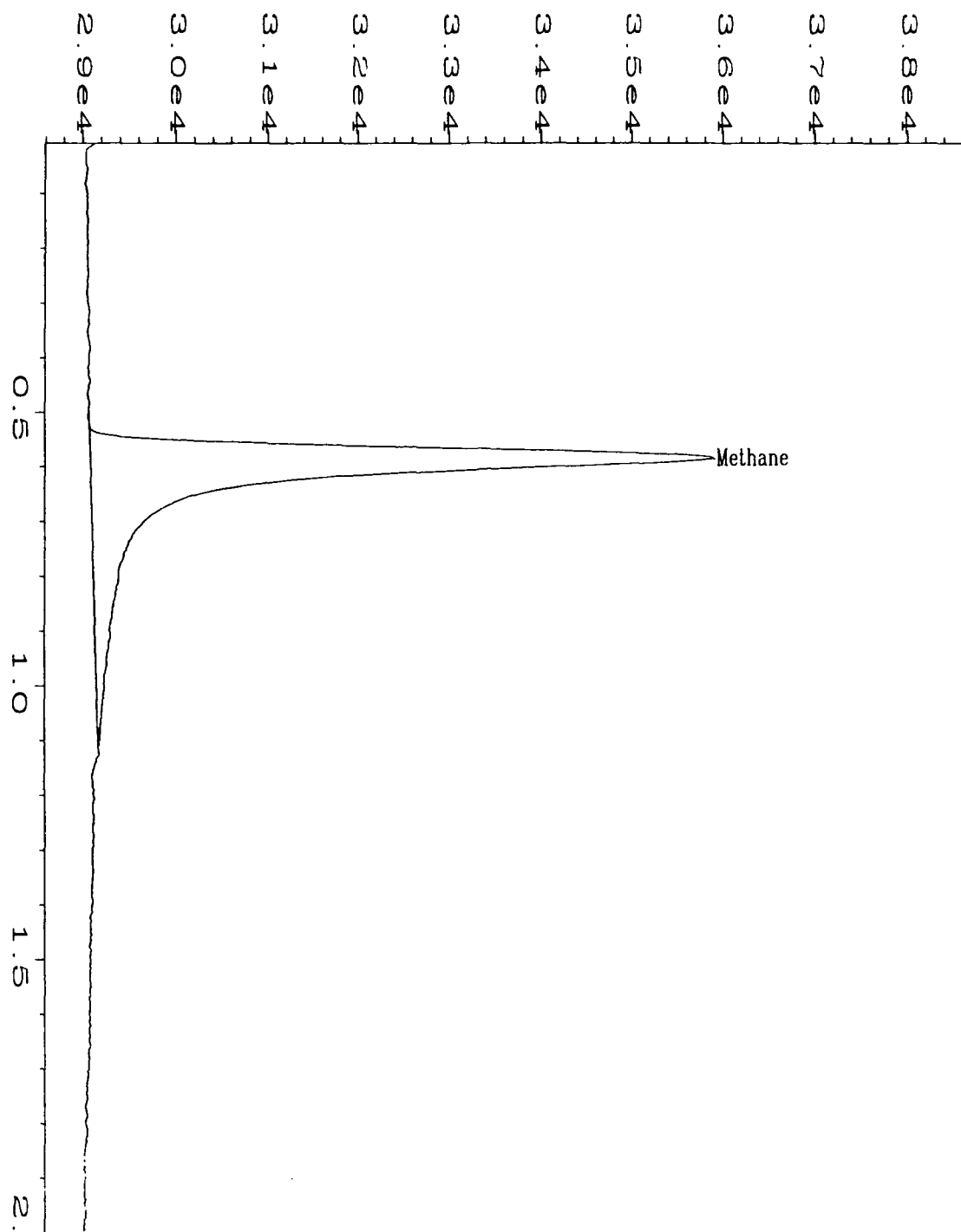
Atomic weight(Methane) : 16 g

Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\025R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 25
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1849-06;1	Sequence Line	: 1
F Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 14 Jun 96 02:22 PM	Analysis Method	: GAS0614.MTH
Report Created on:	17 Jun 96 10:41 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-22S;Water		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: MW-22D	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1849-07	Lab Work Order	: 96-1849
Date Sampled	: 6/5/96	Dilution Factor	: 50.00
Date Received	: 6/6/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614027

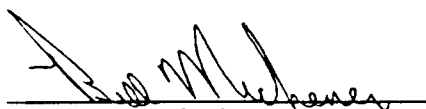
Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.5	0.1

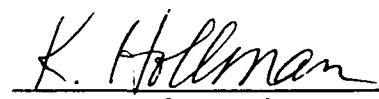
Temperature	: 84.4 F	Saturation Meth	: 0.1327	7
Amount Injected	: 0.01 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration Meth	: 0.40859139	
Head space created	: 4 ml	in Head Space		
Methane Area	: 61.72 ug			

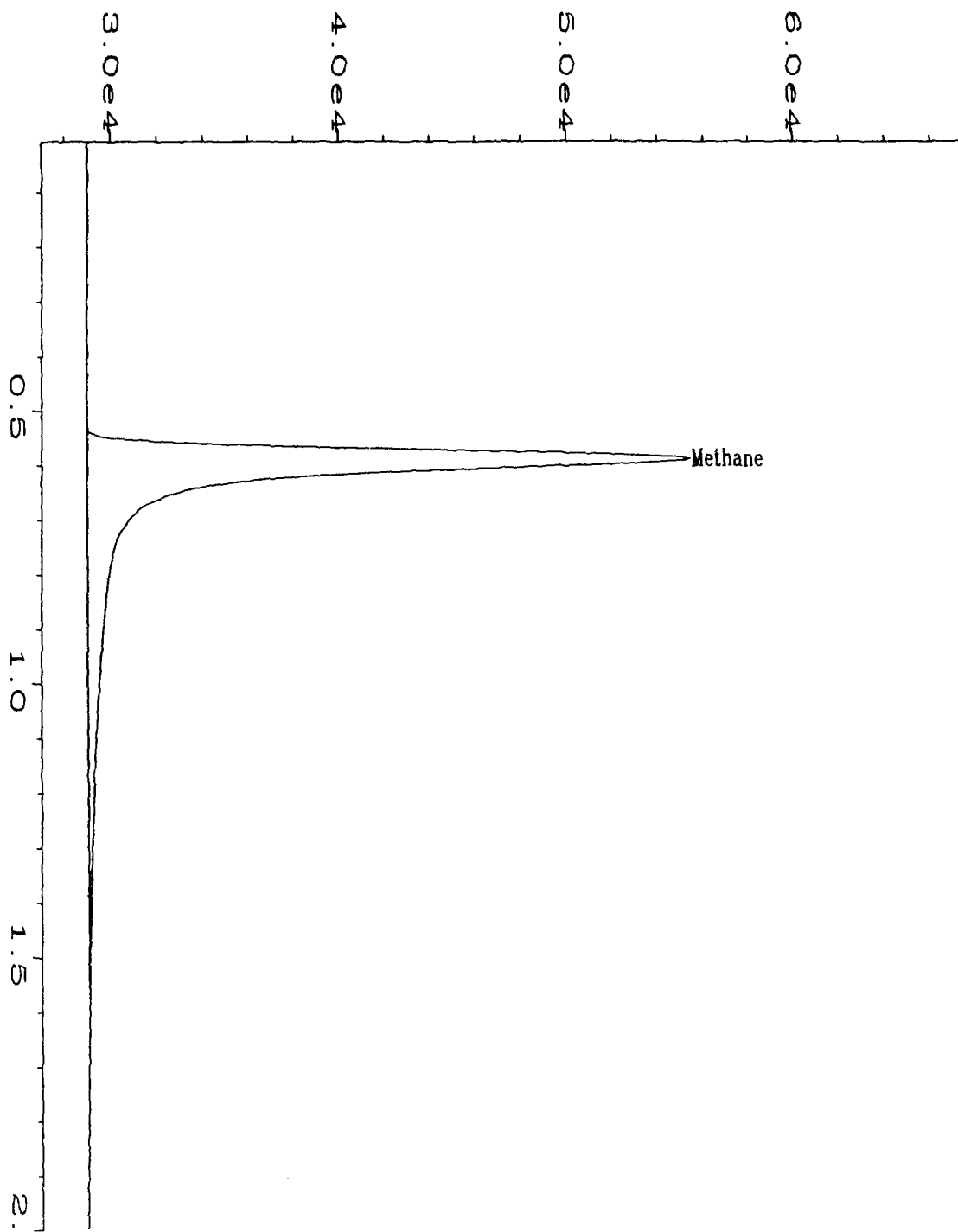
Atomic weight(Methane) : 16 g

Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\027R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 27
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1849-07;50	Sequence Line	: 1
Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 14 Jun 96 02:35 PM	Analysis Method	: GAS0614.MTH
Report Created on	: 17 Jun 96 10:41 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-22D;Water		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: MW-32	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1849-08	Lab Work Order	: 96-1849
Date Sampled	: 6/5/96	Dilution Factor	: 50.00
Date Received	: 6/6/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614028

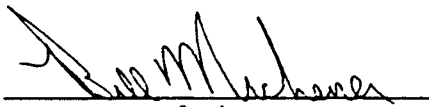
Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.6	0.1

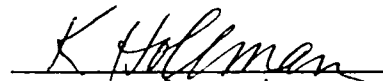
Temperature	: 84.4 F	Saturation	Meth	0.1529	1
Amount Injected	: 0.01 ml	Concentration			
Total Volume of Sample	: 43 ml	Concentration	Meth	0.47107171	
Head space created	: 4 ml	in Head Space			
Methane Area	: 71.158 ug				

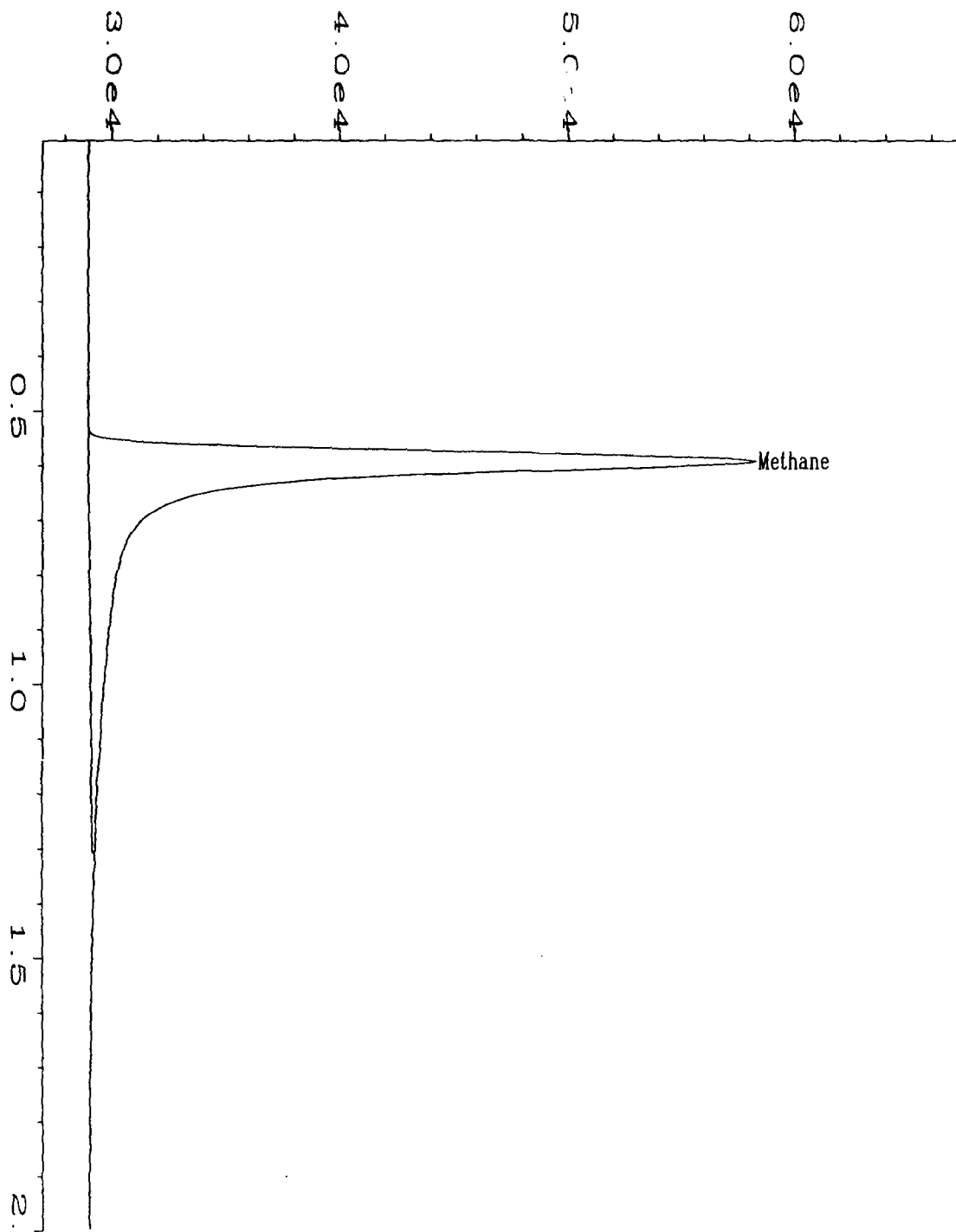
Atomic weight(Methane) : 16 g

Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\028R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 28
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1849-08;50	Sequence Line	: 1
Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 14 Jun 96 02:38 PM	Analysis Method	: GAS0614.MTH
Report Created on:	17 Jun 96 10:41 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-32;Water		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: MW-17	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1849-09	Lab Work Order	: 96-1849
Date Sampled	: 6/5/96	Dilution Factor	: 10.00
Date Received	: 6/6/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614029

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.07	0.02

Temperature	: 84.4 F	Saturation Meth	: 0.0168
Amount Injected	: 0.05 ml	Concentration	
Total Volume of Sample	: 43 ml	Concentration Meth	: 0.05199676
Head space created	: 4 ml	in Head Space	
Methane Area	: 39.272 ug		

Atomic weight(Methane) : 16 g

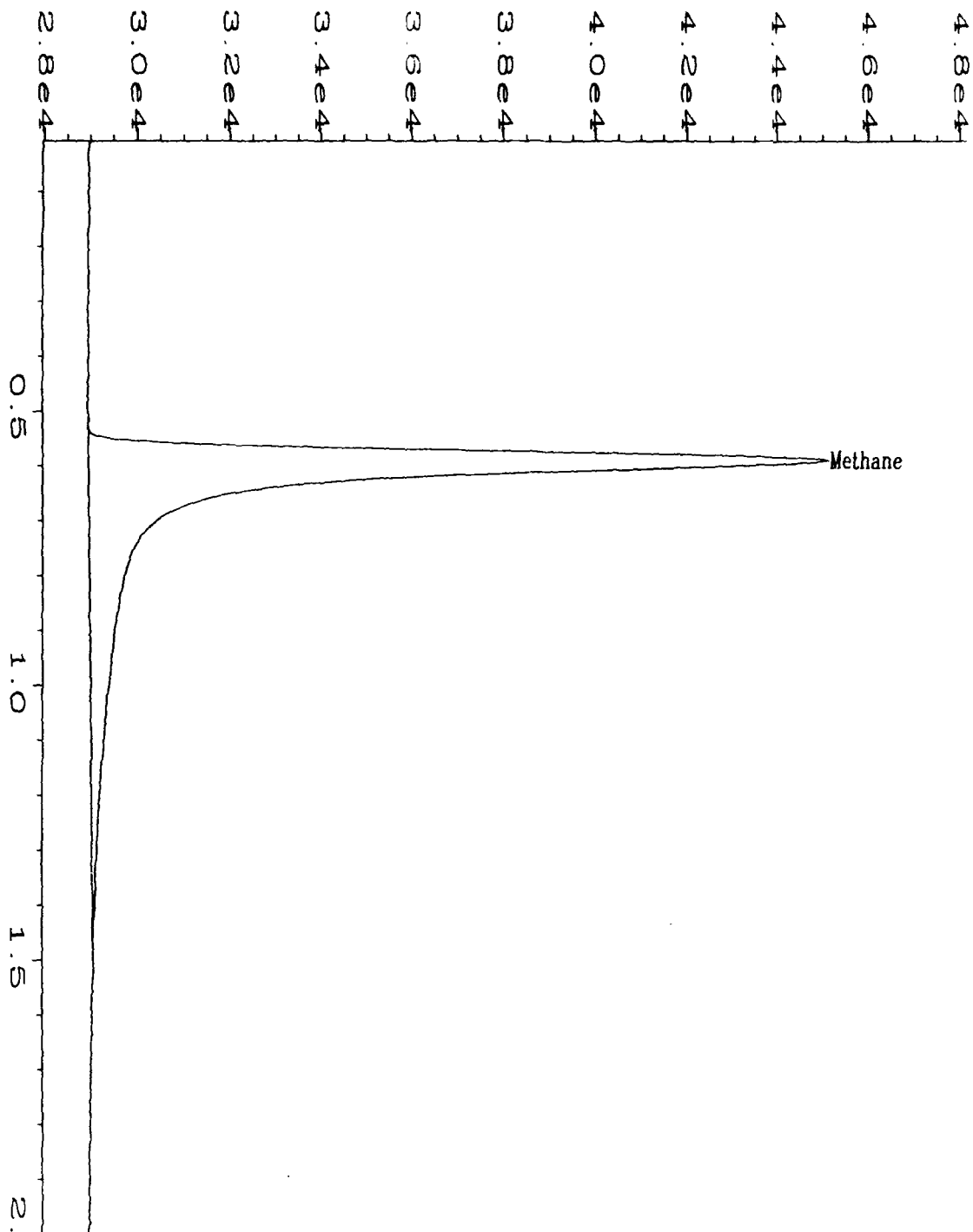
Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved

AF1849.XLS



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\029R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 29
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1849-09;10	Sequence Line	: 1
Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 14 Jun 96 02:44 PM	Analysis Method	: GAS0614.MTH
Report Created on	: 17 Jun 96 10:41 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-17;Water		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: MW-25	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1849-10	Lab Work Order	: 96-1849
Date Sampled	: 6/5/96	Dilution Factor	: 1.00
Date Received	: 6/6/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614030

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.002

Temperature	: 84.5 F	Saturation	Meth	
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug			

Atomic weight(Methane) : 16 g

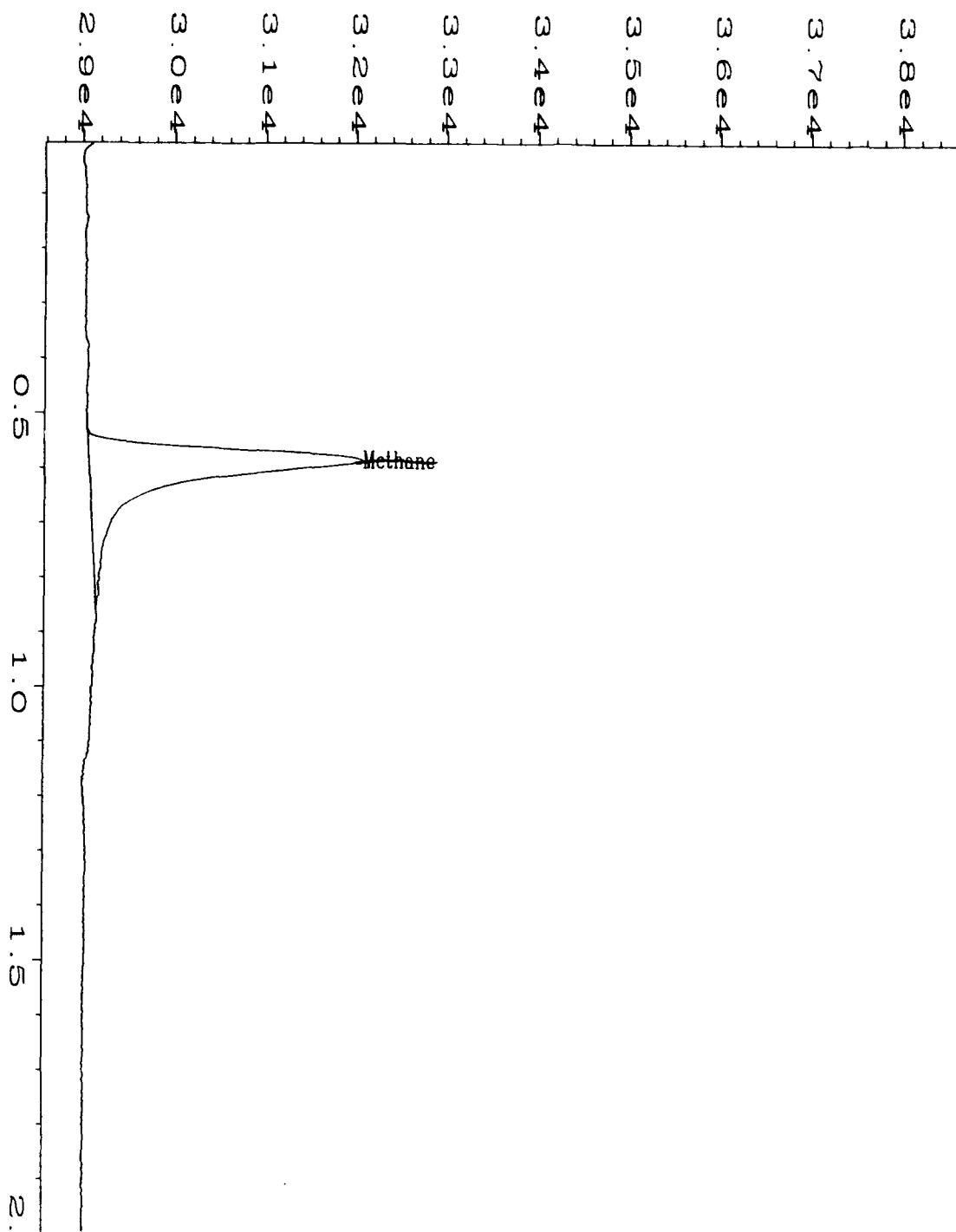
Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved

AF1849.XLS



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\030R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 30
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1849-10;1	Sequence Line	: 1
Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 14 Jun 96 02:48 PM	Analysis Method	: GAS0614.MTH
Report Created on:	17 Jun 96 10:41 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MW-25;Water		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane Report Form

Client Sample Number	: CPT-18S	Client Project No.	: Madison ANGB
Lab Sample Number	: 96-1849-11	Lab Work Order	: 96-1849
Date Sampled	: 6/5/96	Dilution Factor	: 1.00
Date Received	: 6/6/96	Method	: RSKSOP-175
Date Extracted/Prepared	: 6/14/96	Matrix	: Water
Date Analyzed	: 6/14/96	Lab File No.	: GAS0614031

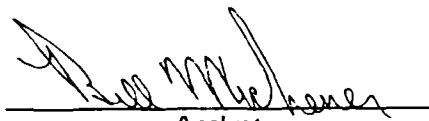
Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.003	0.002

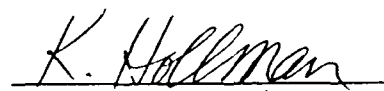
Temperature	: 85.2 F	Saturation	Meth	0.00	5
Amount Injected	: 0.5 ml	Concentration			
Total Volume of Sample	: 43 ml	Concentration	Meth	0.00259972	
Head space created	: 4 ml	in Head Space			
Methane Area	: 19.664 ug				

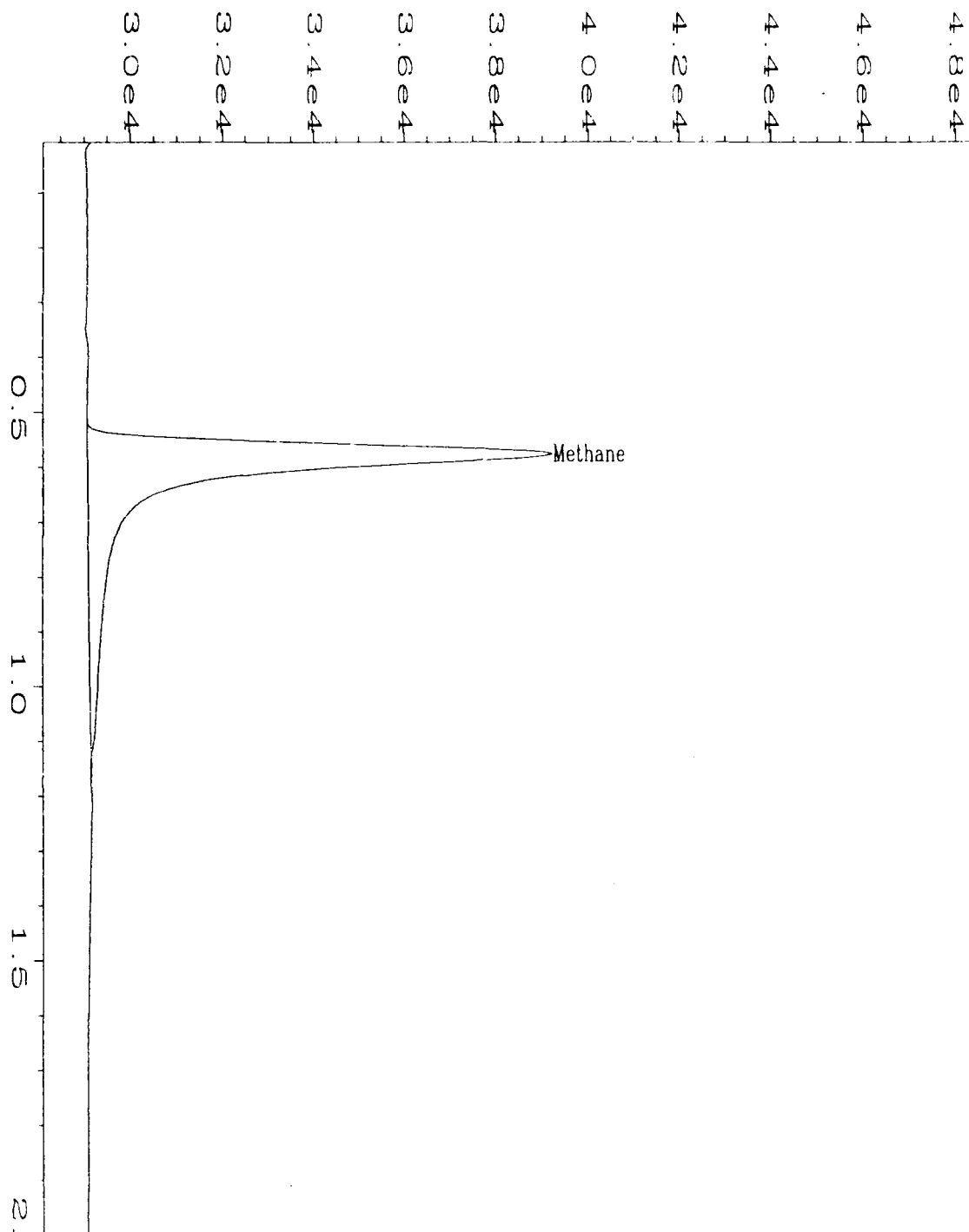
Atomic weight(Methane) : 16 g

Qualifiers

E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.


Analyst


Approved



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\031R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 31
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: 96-1849-11;1	Sequence Line	: 1
Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 14 Jun 96 02:55 PM	Analysis Method	: GAS0614.MTH
Report Created on	: 17 Jun 96 10:41 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: CPT-18S;Water		

Evergreen Analytical, Inc.
4036 Youngfield, Wheat Ridge, CO 80033
(303) 425-6021

RSKSOP-175 Gas Method
Methane LCS Report Form

LCS No. : LCS061496 EPA Method No. : RSKSOP-175
Date Prepared : 6/14/96 Matrix : Water
Date Analyzed : 6/14/96 Method Blank : GB061496
E.A. LCS Source No. : 1719 Lab File No. : GAS0614006

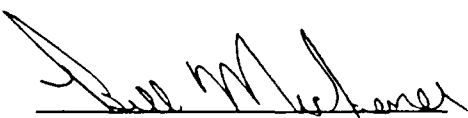
Compound	Spike Added (ug)	Method Blank Concentration (ug)	LCS Concentration (ug)	LCS %REC	QC Limits %REC
Methane Gas	500	0	395	79	67-85

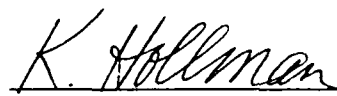
Spike Recovery: 0 out of (1) outside limits.

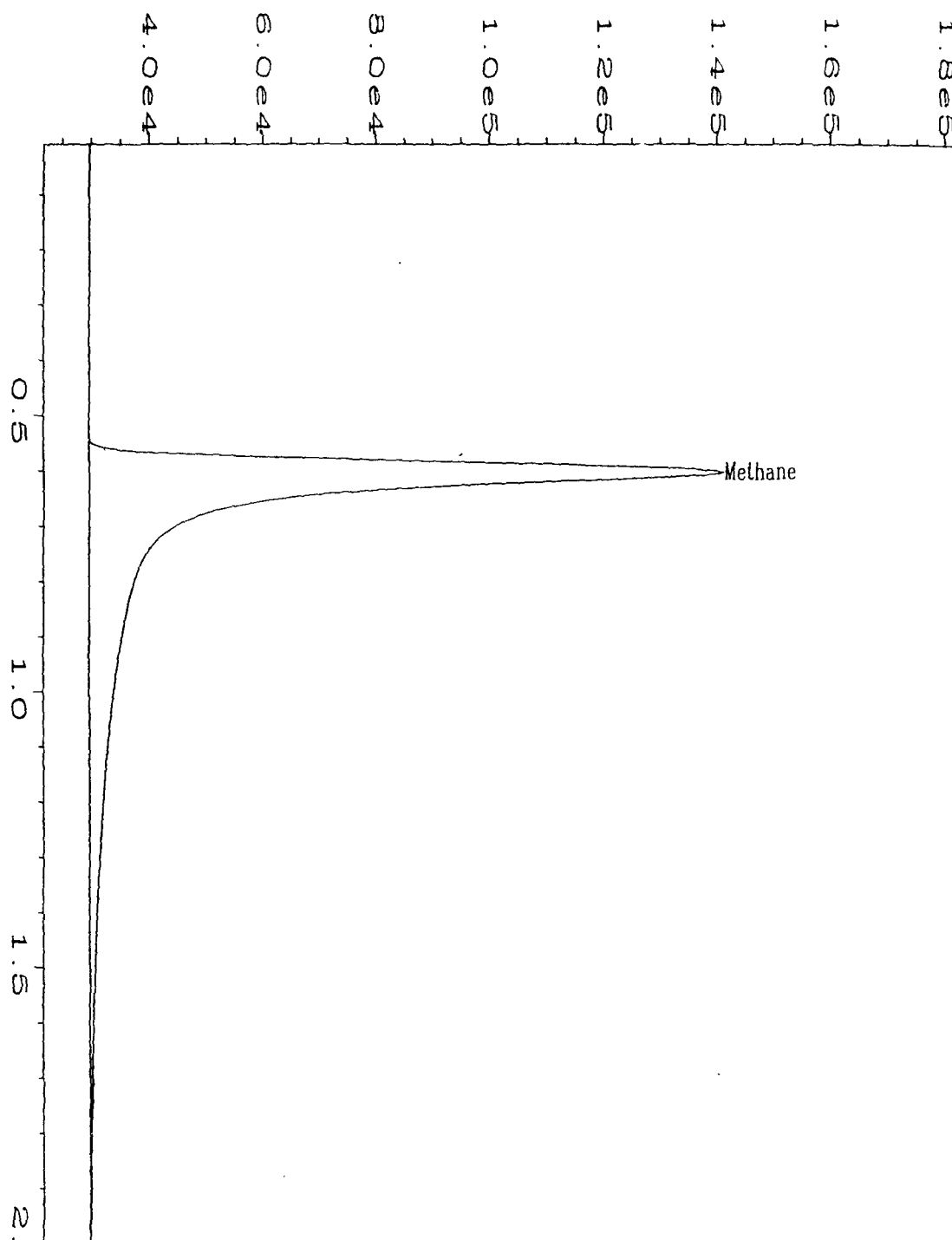
Note: The LCS was made by taking the sample and displacing 4ml of headspace with a 1% methane gas and shaking the VOA for 5 minutes. Then injecting 50 ul from the headspace into the GC resulting in a theoretical concentration of 500 ug.

Notes

* = Values outside of QC limits.
NA = Not analyzed/not available.


Analyst


Approved



Data File Name	: C:\HPCHEM\ALCGAS\DATA\GAS0614\006R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 6
Instrument	: ALCGAS	Injection Number	: 1
Sample Name	: LCS061496;Gas	Sequence Line	: 1
Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 14 Jun 96 10:08 AM	Analysis Method	: GAS0614.MTH
Report Created on:	17 Jun 96 10:39 AM	Sample Amount	: 0
Last Recalib on	: 07 JUN 96 11:12 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: Laboratory Control Sample		
	Displaced 4ml of deionized water in 43ml vial with 1%		

EVERGREEN ANALYTICAL, Inc.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Anion Report

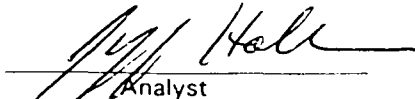
Date Sampled : 6/05/96
Date Received : 6/06/96
Date Prepared : 6/07/96
Date Analyzed : 6/07/96

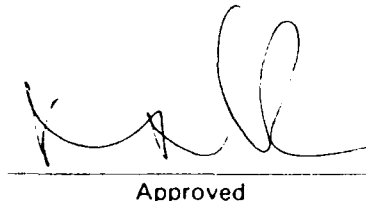
Client Project ID. : 729691.09110
Lab Project Number : Madison ANGB
Method : 96-1849
EPA 300.0
Detection Limit : 0.25 mg/L

Evergreen Sample #	Client Sample ID.	Matrix	Chloride mg/L	Dilution Factor
96-1849-01	MW-11	Water	3.7	1
96-1849-02	MW-9	Water	13.1	1
96-1849-03	MW-10	Water	4.0	1
96-1849-04	MW-30	Water	4.8	1
96-1849-05	MW-8	Water	5.0	1
96-1849-06	MW-22S	Water	20.6	1
96-1849-07	MW-22D	Water	3.8	1
96-1849-08	MW-32	Water	3.9	1
96-1849-09	MW-17	Water	10.9	1
96-1849-10	MW-25	Water	10.8	1
96-1849-11	CPT-18S	Water	6.5	1
Method Blank	(6/07/96)		<0.25	

Quality Assurance

		Spike Amount (mg/L)	Sample Result (mg/L)	Spike Result (mg/L)	% Recovery
96-1849-11	CPT-18S Matrix Spike	10.0	6.5	16.3	99
96-1849-11	CPT-18S Matrix Spike Dup	10.0	6.5	16.6	101
MS/MSD	RPD				2.4


Analyst


Approved

EVERGREEN ANALYTICAL, Inc.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Anion Report

Date Sampled : 6/05/96
Date Received : 6/06/96
Date Prepared : 6/07/96
Date Analyzed : 6/07/96

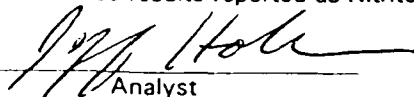
729691.09110
Client Project ID. : Madison ANGB
Lab Project Number : 96-1849
Method : EPA 300.0
Detection Limit : 0.076 mg/L

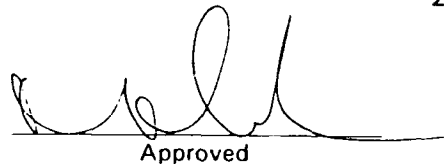
Evergreen Sample #	Client Sample ID.	Matrix	Nitrite-N mg/L	Dilution Factor
96-1849-01	MW-11	Water	<0.076	1
96-1849-02	MW-9	Water	<0.076	1
96-1849-03	MW-10	Water	<0.076	1
96-1849-04	MW-30	Water	<0.076	1
96-1849-05	MW-8	Water	<0.076	1
96-1849-06	MW-22S	Water	<0.076	1
96-1849-07	MW-22D	Water	<0.076	1
96-1849-08	MW-32	Water	<0.076	1
96-1849-09	MW-17	Water	0.28	1
96-1849-10	MW-25	Water	<0.076	1
96-1849-11	CPT-18S	Water	<0.076	1
Method Blank	(6/07/96)		<0.076	

Quality Assurance *

		Spike Amount (mg/L)	Sample Result (mg/L)	Spike Result (mg/L)	% Recovery
96-1849-11	CPT-18S Matrix Spike	10.0	<0.25	9.6	96
96-1849-11	CPT-18S Matrix Spike Dup	10.0	<0.25	9.4	94
MS/MSD RPD					2.4

* = Quality assurance results reported as Nitrite (NO₂).


Analyst


Approved

EVERGREEN ANALYTICAL, Inc.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Anion Report

Date Sampled	: 6/05/96	Client Project ID.	: 729691.09110
Date Received	: 6/06/96	Lab Project Number	: Madison ANGB
Date Prepared	: 6/07/96	Method	: 96-1849
Date Analyzed	: 6/07/96	Detection Limit	: EPA 300.0
			: 0.056 mg/L

<u>Evergreen Sample #</u>	<u>Client Sample ID.</u>	<u>Matrix</u>	<u>Nitrate-N mg/L</u>	<u>Dilution Factor</u>
96-1849-01	MW-11	Water	4.5	1
96-1849-02	MW-9	Water	2.3	1
96-1849-03	MW-10	Water	0.20	1
96-1849-04	MW-30	Water	0.16	1
96-1849-05	MW-8	Water	0.14	1
96-1849-06	MW-22S	Water	4.9	1
96-1849-07	MW-22D	Water	0.076	1
96-1849-08	MW-32	Water	0.082	1
96-1849-09	MW-17	Water	5.3	1
96-1849-10	MW-25	Water	0.30	1
96-1849-11	CPT-18S	Water	1.4	1
Method Blank	(6/07/96)		<0.056	

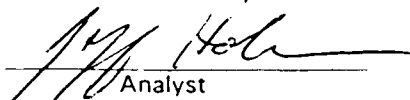
Quality Assurance *

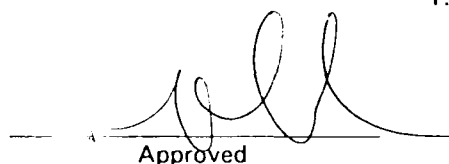
		<u>Spike Amount (mg/L)</u>	<u>Sample Result (mg/L)</u>	<u>Spike Result (mg/L)</u>	<u>% Recovery</u>
96-1849-11	CPT-18S				
	Matrix Spike	10.0	6.0	15.4	94
96-1849-11	CPT-18S				
	Matrix Spike Dup	10.0	6.0	15.6	96

MS/MSD RPD

1.9

* = Quality assurance results reported as Nitrate (NO₃).


Analyst


Approved

EVERGREEN ANALYTICAL, Inc.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Anion Report

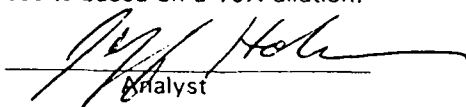
Date Sampled	: 6/05/96	Client Project ID.	: 729691.09110 Madison ANGB
Date Received	: 6/06/96	Lab Project Number	: 96-1849
Date Prepared	: 6/07/96	Method	: EPA 300.0
Date Analyzed	: 6/07/96	Detection Limit	: 0.25 mg/L

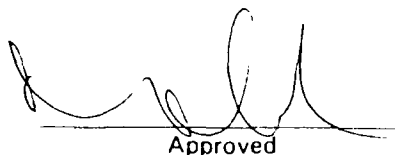
<u>Evergreen Sample #</u>	<u>Client Sample ID.</u>	<u>Matrix</u>	<u>Sulfate</u> mg/L	<u>Dilution Factor</u>
96-1849-01	MW-11	Water	37.5	10
96-1849-02	MW-9	Water	11.4	1
96-1849-03	MW-22S	Water	1.2	1
96-1849-04	MW-30	Water	0.92	1
96-1849-05	MW-8	Water	1.1	1
96-1849-06	MW-22S	Water	49.1	10
96-1849-07	MW-22D	Water	6.9	1
96-1849-08	MW-32	Water	8.0	1
96-1849-09	MW-17	Water	63.1	10
96-1849-10	MW-25	Water	18.2	1
96-1849-11 Method Blank	CPT-18S (6/07/96)	Water	89.2 <0.25	10

Quality Assurance *

	<u>Spike Amount</u> (mg/L)	<u>Sample Result</u> (mg/L)	<u>Spike Result</u> (mg/L)	<u>% Recovery</u>
96-1849-11 CPT-18S Matrix Spike	10.0	8.9	18.4	95
96-1849-11 CPT-18S Matrix Spike Dup	10.0	8.9	18.5	96
MS/MSD RPD				0.6

* = Spike results based on a 10X dilution.


Analyst


Approved

EVERGREEN ANALYTICAL, Inc.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

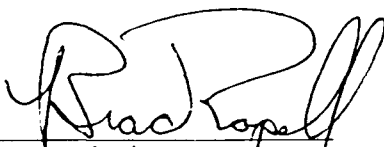
Analysis Report

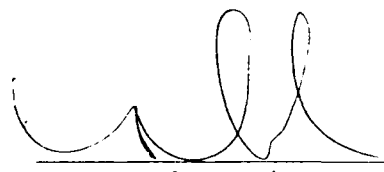
Date Sampled	: 6/5/96	Client Project ID.	: 729691.09110
Date Received	: 6/6/96	Lab Project Number	: 96-1849
Date Prepared	: 6/6/96	Method	: EPA 310.1
Date Analyzed	: 6/6/96	Detection Limit	: 5.0 mg CaCO ₃ /L

Evergreen Sample #	Client Sample ID.	Matrix	Total Alkalinity (mg CaCO ₃ /L)	Dilution Factor
96-1849-03	MW-10	Water	286	1
96-1849-04	MW-30	Water	302	1
96-1849-05	MW-8	Water	519	1
96-1849-10	MW-25	Water	439	1
Method Blank	(6/6/96)		<5.0	

Quality Assurance

Reference	True Value (mgCaCO ₃ /L)	Result (mgCaCO ₃ /L)	% Recovery
ERA Alkalinity Lot 0814-95-02	120	124	103


Analyst


Approved

Client _____
 Subject MODEL GRID with boundary
conditions

Job No. _____
 By MS
 Checked _____

Sheet _____ of _____
 Date _____
 Rev. _____

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	851.8	851.8	851.8	851.9	851.9	852	852	852	852	852	852	852	852	851.9	851.9	851.8	851.8	X	X
3	X																			X
4	X																			X
5	X																			X
6	X																			X
7	X																			X
8	X																			X
9	X																			X
10	X																			X
11	X																			X
12	X																			X
13	X																			X
14	X																			X
15	X																			X
16	X																			X
17	X																			X
18	X																			X
19	X																			X
20	X																			X
21	X																			X
22	X																			X
23	X																			X
24	X																			X
25	X																			X
26	X																			X
27	X																			X
28	X																			X
29	X	848.4	848.4	848.4	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.4	848.4	X	X
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

X = No-flow
cell

852 = constant
head cell,
with
assigned
head value

Client _____
 Subject MODEL GRID, with calibrated
transmissivity array (ft²/sec)

Job No. _____
 By MS
 Checked _____

Sheet _____ of _____
 Date _____
 Rev. _____

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1																				
2	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
3	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
4	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
5	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B
6	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B
7	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B
8	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B
9	C	C	C	B	A	A	A	A	A	A	A	A	A	A	A	A	B	C	C	C
10	C	C	C	B	A	A	A	A	A	A	A	A	A	A	A	A	B	C	C	C
11	C	C	C	B	A	A	A	A	A	A	A	A	A	A	A	A	B	C	C	C
12	C	C	C	B	A	A	A	A	A	A	A	A	A	A	A	A	B	C	C	C
13	C	C	C	B	B	A	A	A	A	A	A	A	A	A	A	A	B	C	C	C
14	C	C	C	B	B	B	A	A	B	B	B	B	B	B	A	A	B	C	C	C
15	C	C	C	B	B	B	A	A	B	B	B	B	B	B	A	A	B	B	B	B
16	C	C	C	B	B	B	A	A	B	B	B	B	B	B	A	A	B	B	B	B
17	C	C	C	B	B	B	A	A	B	B	B	B	B	B	B	A	B	B	B	B
18	C	C	C	B	B	B	A	A	A	A	A	A	A	A	B	B	B	B	B	B
19	C	C	C	B	B	B	A	A	A	A	A	A	A	A	B	B	B	B	B	B
20	C	C	C	B	B	B	A	A	A	A	A	A	A	A	A	A	B	B	B	B
21	C	C	C	B	B	B	A	A	A	A	A	A	A	A	A	A	B	B	B	B
22	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	B	B	B	B
23	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	B	B	B	B
24	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	B	B	B	B
25	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	B	B	B	B
26	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	B	B	B	B
27	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	B	B	B	B
28	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	B	B	B	B
29	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	B	B	B	B
30																				

$$A = 4.7 \times 10^{-3} \frac{\text{ft}^2}{\text{sec}}$$

$$B = 9.4 \times 10^{-3} \frac{\text{ft}^2}{\text{sec}}$$

$$C = 1.2 \times 10^{-3} \frac{\text{ft}^2}{\text{sec}}$$

Client AFCEE Madison ANG B
 Subject MODEL GRID w/ starting BTEX
concentrations (µg/L) (~1991)

Job No. 722450.09
 By MS
 Checked _____

Sheet 1 of 1
 Date _____
 Rev. _____

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

1
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

50 250 250 250 50
 50 250 500 1,000 1,000 1,000 250 50
 50 250 250 5,000 20,000 30,000 20,000 5,000 500 50
 50 250 750 5,000 20,000 20,000 20,000 5,000 500 50
 50 100 750 5,000 10,000 10,000 10,000 10,000 1,000 500 50
 50 100 500 7500 1000 1000 1000 500 100 250 50
 50 100 500 3000 1,000 1,000 3000 750 50 50
 * 150 100 1500 1500 750 200 50 50
 * 50 200 200 200 50 50
 * 20 50 50 50 20 5
 5 20 20 20 20 20 5
 5 5 5 5 5 5

Entered into
 model file
25 mg/L

$$\left(\frac{\text{mg}}{\text{L}} = \frac{\mu\text{g}}{\text{L}} \div 1,000 \right)$$

Client AFCEE - Madison ANG-B
 Subject MODEL GRID w/ start time DO
(concentrations (mg/L))

Job No. 722450.09
 By MS
 Checked _____

Sheet 1 of 1
 Date _____
 Rev. _____

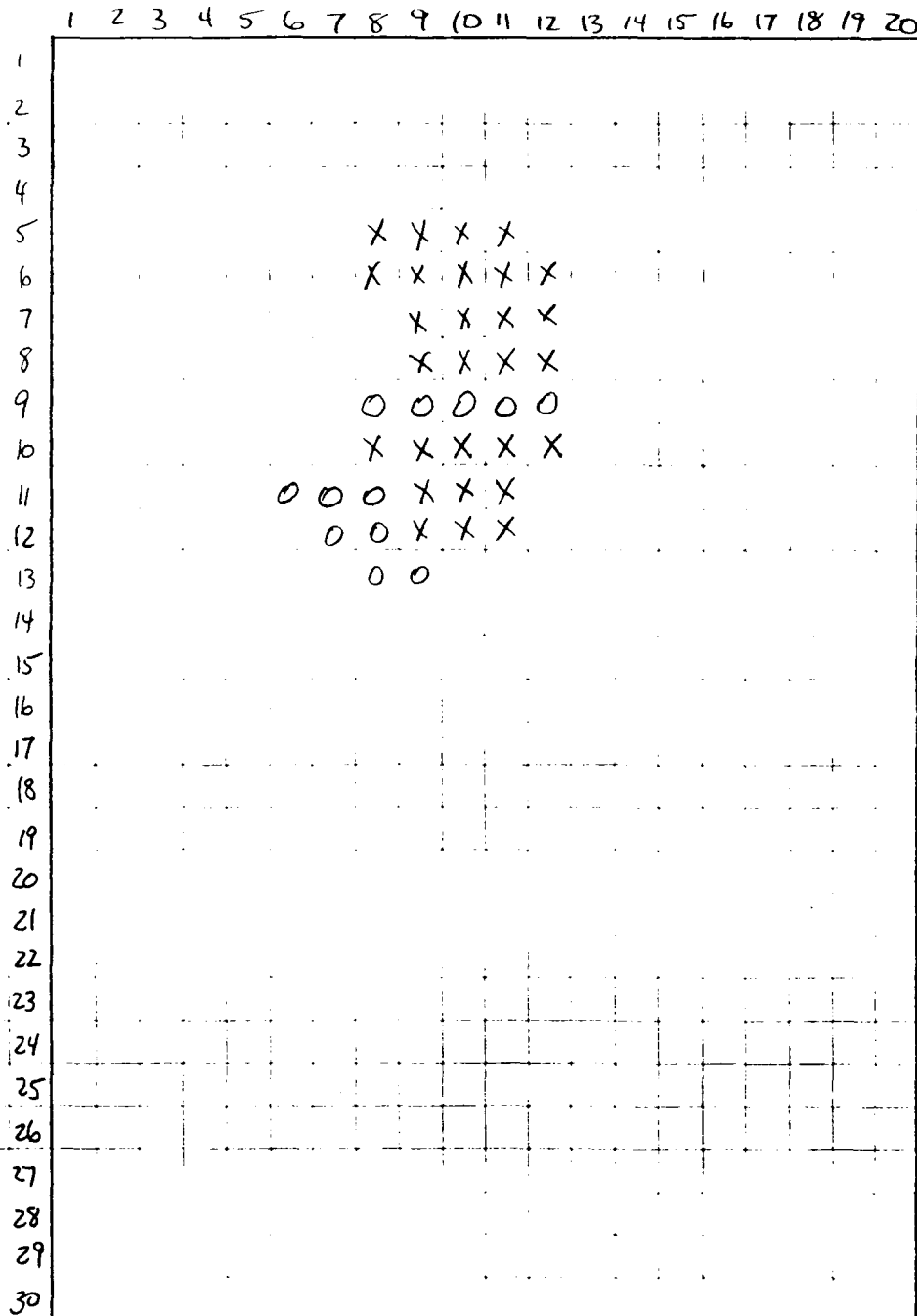
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1																				
2	5.5	5.5	4.5	3.5	3.5	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3	5.0	5.0	4.0	3.0	3.0	1.5	1.5	1.0	1.0	1.0	1.5	1.5	2.0	2.5	3.0	3.5	3.5	3.5	3.5	3.5
4	5.0	4.5	3.5	2.5	1.5	1.0	1.0	0.6	0.6	0.6	0.8	1.0	1.5	2.5	3.0	3.5	3.5	3.5	3.5	3.5
5	4.5	4.0	3.0	1.5	1.0	1.0	0.6	0.4	0.4	0.4	0.6	0.8	1.0	1.5	2.5	3.5	3.5	3.5	3.5	3.5
6	4.0	3.0	1.5	1.0	1.0	0.6	0.4	0.2	0.2	0.2	0.2	0.4	0.8	1.5	2.5	3.5	3.5	3.5	3.5	3.5
7	4.0	3.0	1.0	0.6	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.8	1.0	1.5	2.5	2.5	3.5	3.5	3.5
8	4.0	2.5	0.6	0.6	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.8	0.8	1.5	2.5	3.5	3.5	3.5	3.5
9	4.0	2.5	0.6	0.2	0.2	0.2	0.2	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.8	1.5	2.5	3.5	3.5	3.5
10	4.0	3.0	2.0	0.6	0.6	0.4	0.2	0.1	0.1	0.2	0.4	0.4	0.4	0.4	0.8	1.5	2.5	3.5	3.5	3.5
11	4.5	3.5	3.0	1.5	1.0	0.6	0.3	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.8	1.5	2.5	3.5	3.5	3.5
12	5	4.0	3.5	1.5	1.0	0.6	0.4	0.3	0.2	0.2	0.3	0.4	0.4	0.4	0.8	1.5	2.5	3.5	3.5	3.5
13	5	4	4	2.5	1.5	0.8	0.6	1.4	0.3	0.3	0.3	0.4	0.4	0.4	0.8	1.5	2.5	3.5	3.5	3.5
14	5	4	4	3.0	1.5	0.7	1.4	1.4	0.3	0.3	0.3	0.4	0.4	0.4	0.8	1.5	2.5	3.5	3.5	3.5
15	5	5	5	4	2.5	2.0	2.5	2.0	0.6	0.4	0.4	0.4	0.4	0.8	1.0	1.5	2.5	3.5	3.5	3.5
16	5	5	5	5	5	5	3.5	2.0	1.0	0.4	0.4	0.4	0.4	0.8	1.5	2.0	2.5	3.5	3.5	3.5
17							5	3.5	3.0	1.5	0.5	0.8	0.8	1.5	2.5	2.5	2.5	3.5	3.5	3.5
18							5	4	3.0	1.5	2.0	2.5	3.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5
19								5	4	3.0	3.0	3.0	3.0	4	4	4	4	4	4	4
20									5	4	4	4	4	4	4	4	4	4	4	4
21										4	5	5	5	5	5	5	5	5	5	5
22																				
23																				
24																				
25																				
26																				
27																				
28																				
29																				
30																				

5.0 mg/L

Client _____
 Subject MODEL GRID W/ BTEX & O₂
Injection wells

Job No. _____
 By MS
 Checked _____

Sheet _____ of _____
 Date _____
 Rev. _____



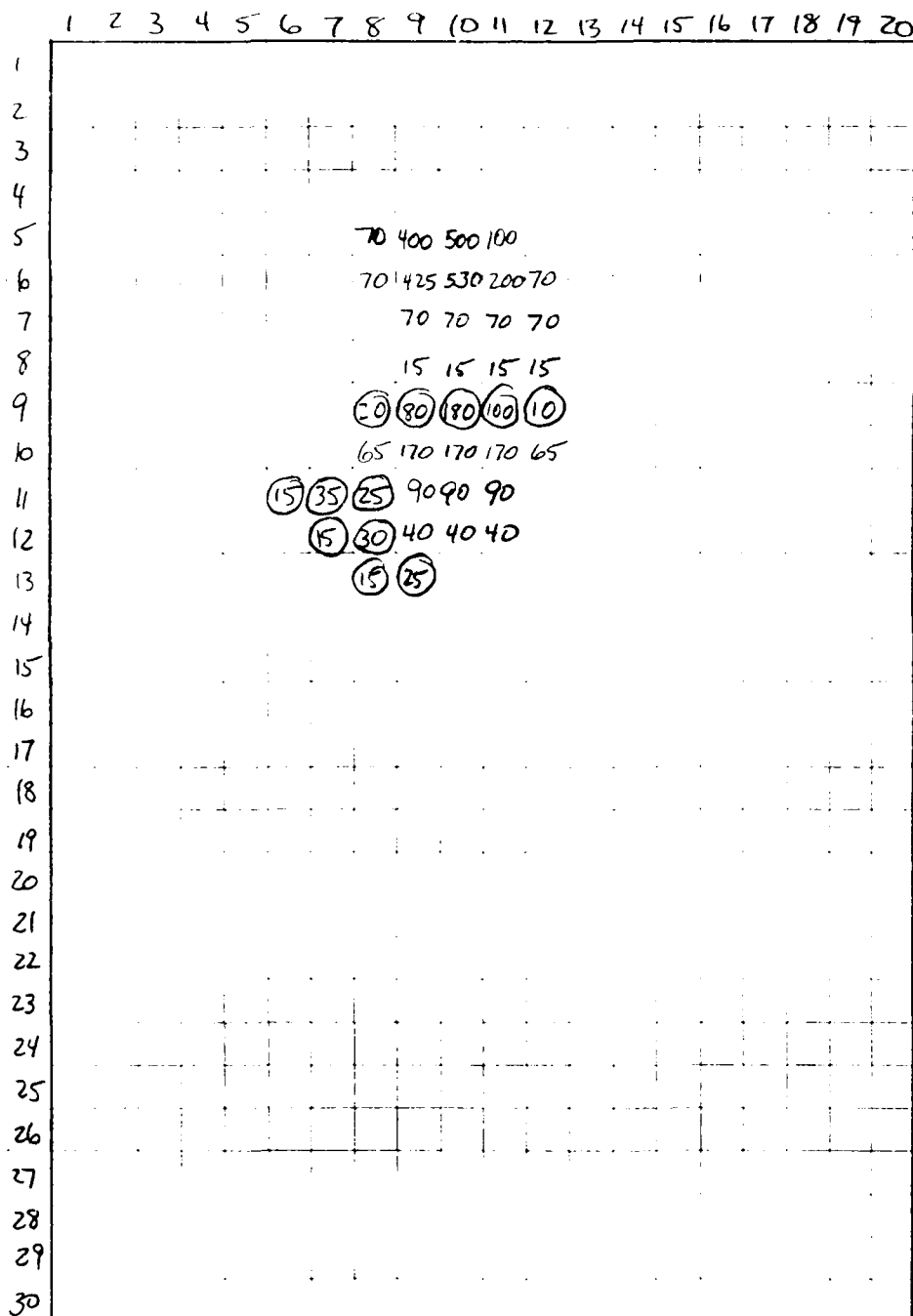
X = LOCATION
 OF BTEX
 INJECTION
 WELL

O = LOCATION
 OF OXYGEN
 INJECTION
 WELL

Client _____
 Subject MODEL GRID with BTX & O₂
injection rates & concentrations

Job No. _____
 By MS
 Checked _____

Sheet _____ of _____
 Date _____
 Rev. _____



All wells injecting
 water at a
 rate of
 $5 \times 10^{-5} \text{ ft}^3/\text{sec}$

concentrations
 in mg/L

(100) = oxygen
 injection
 conc.

RMS Error Calculations for Calibrated Flow Model
Truax Field Site

Well/CPT	Cell Location x,y	Measured Head Hm	Simulated Head Hs	Hm - Hs	(Hm - Hs) ²
MW-17	10,4	851.67	851.61	0.0600	0.0036
CPT18	7,4	851.71	851.56	0.1500	0.0225
CPT17	10,6	851.29	851.26	0.0300	0.0009
MW-22S	15,9	850.77	850.84	-0.0700	0.0049
MW-9	9,9	850.88	850.81	0.0700	0.0049
CPT-15	5,9	850.74	850.74	0.0000	0.0000
MW-10	8,10	850.77	850.66	0.1100	0.0121
MW-11	7,11	850.48	850.52	-0.0400	0.0016
MW-12	8,13	850.29	850.29	0.0000	0.0000
CPT20	9,13	850.26	850.29	-0.0300	0.0009
CPT19	13,13	850.27	850.29	-0.0200	0.0004
CPT5	11,14	850.19	850.17	0.0200	0.0004
CPT4	7,14	850.14	850.17	-0.0300	0.0009
MW-4	19,15	850.14	850.16	-0.0200	0.0004
CPT1	12,17	850.01	849.94	0.0700	0.0049

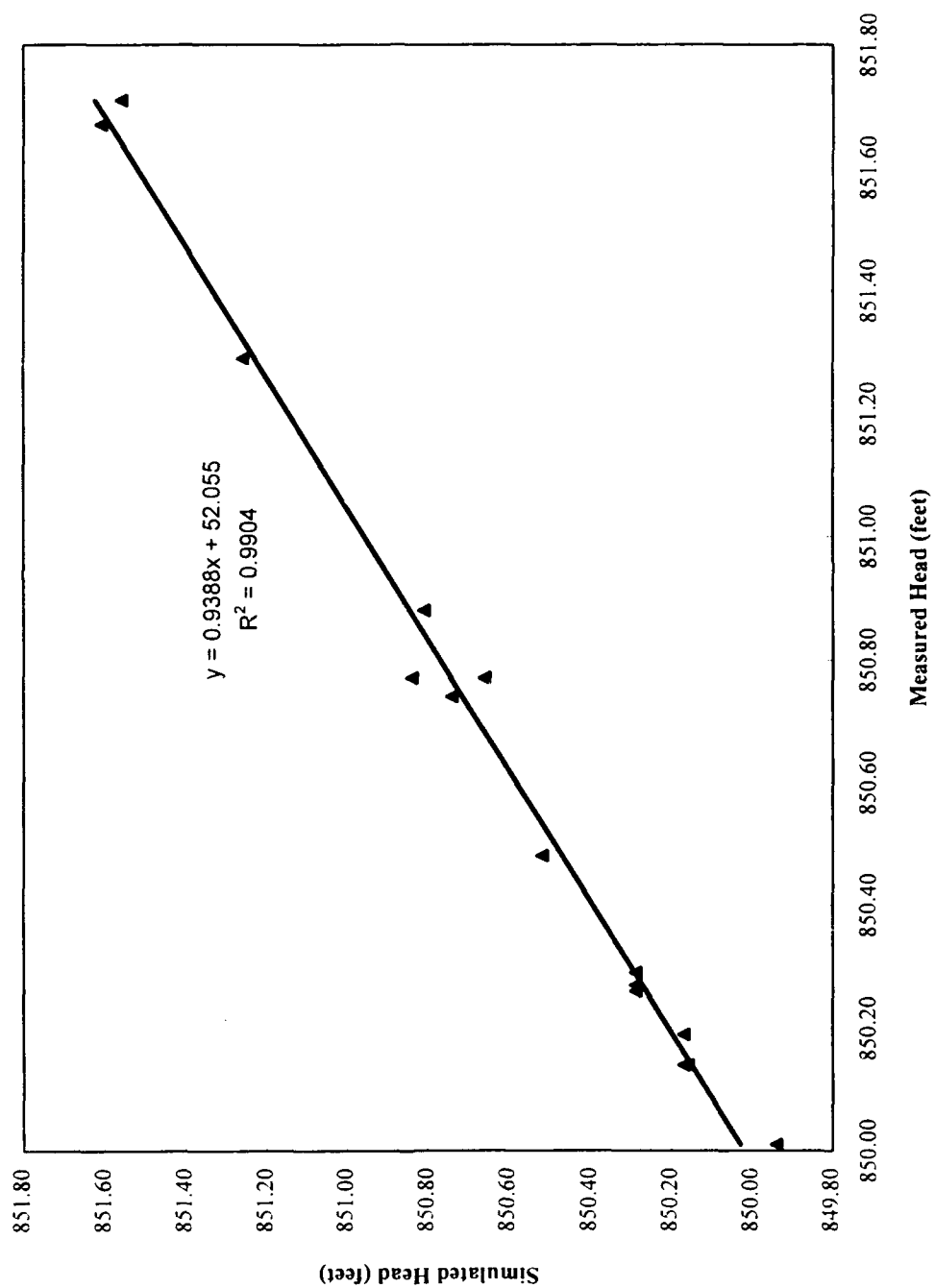
Sum of Squares of Remainders 0.058

Average of Squares of Remainders 0.0034

RMS 0.0586

RMS as a percentage of the head drop over the model domain
(Head Drop is about 3.3 feet) 1.78

Simulated Head vs. Measured Head, Truax Field Model



APPENDIX D

MODEL INPUT AND OUTPUT FILES