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Prepared for:

*The Washington State
Department of Ecology*

Prepared by:

*Enviros, Inc.
25 Central Way, Suite 210
Kirkland, Washington 98033-6156*

DEPARTMENT OF ECOLOGY	
NWRO/TCP TANK UNIT <i>2910</i>	
INTERIM CLEANUP REPORT	<input checked="" type="checkbox"/>
SITE CHARACTERIZATION	<input type="checkbox"/>
FINAL CLEANUP REPORT	<input type="checkbox"/>
OTHER _____	<input type="checkbox"/>
AFFECTED MEDIA: SOIL	<input checked="" type="checkbox"/>
OTHER _____ GW	<input checked="" type="checkbox"/>
INSPECTOR (INIT.) <i>MT</i> DATE <i>8-1-96</i>	

*Report of May 1996
Groundwater Sampling
and Analysis*

*Tiki Car Wash
11909 NE 8th Street
Bellevue, Washington*

June 6, 1996

E1/930415

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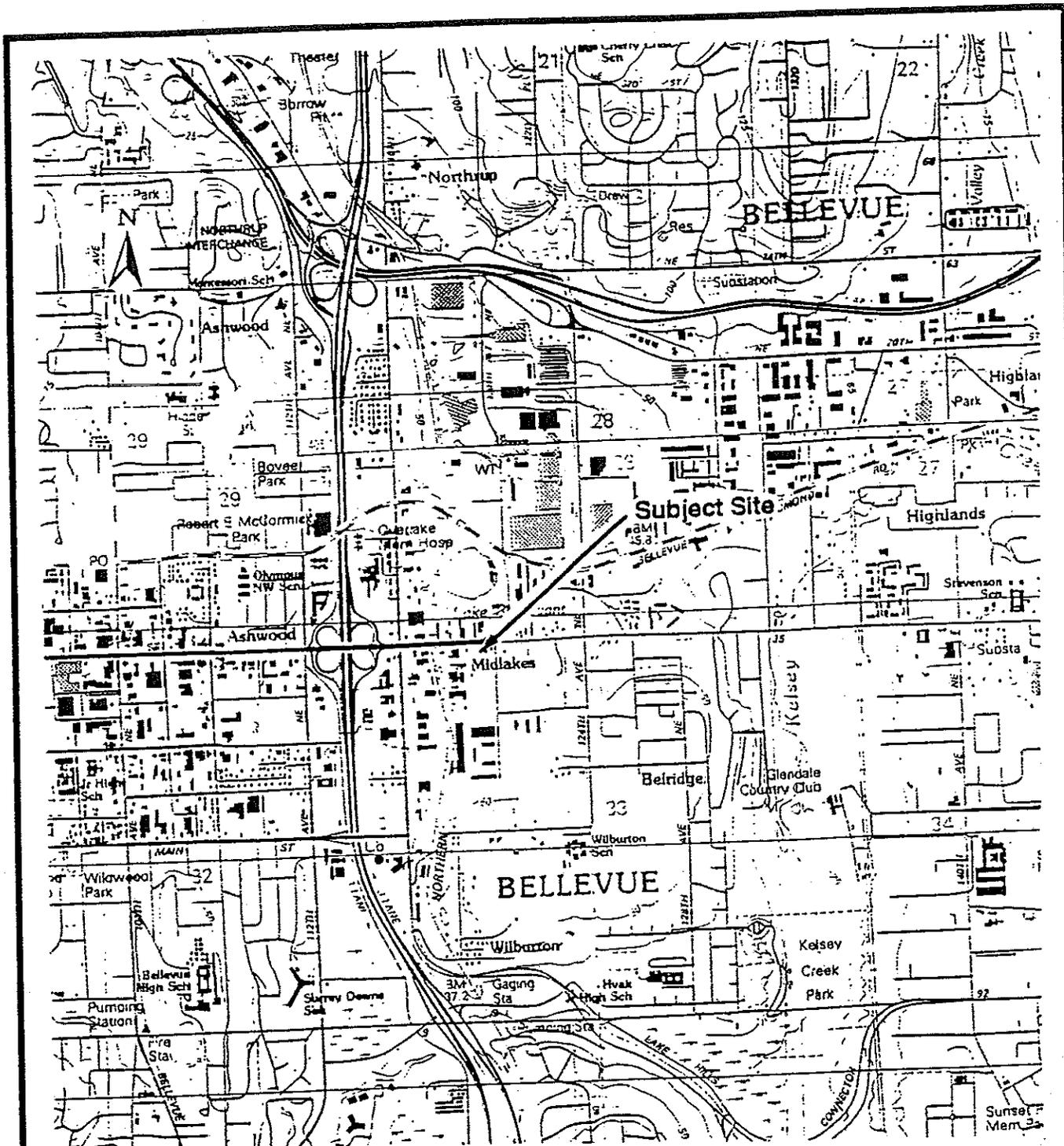
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1. INTRODUCTION

On behalf of the Washington State Department of Ecology (Ecology), Enviros Inc. (Enviros) collected groundwater data on May 23, 1996 for the Tiki Car Wash project, located at 11909 NE 8th Street, Bellevue, Washington (see Figure 1). The work in progress is authorized under Contract Number C9206255, Work Assignment ENV-011.

Groundwater depth measurements were collected from a total of 8 monitoring wells located on the Tiki Car Wash property and surrounding properties. Groundwater samples were collected from the same eight wells. According to the scope of work, eleven wells total were to be investigated. However, two wells were decommissioned in July, 1994 in conjunction with construction of a new building and one well was inaccessible due to cement covering the well monument. The objectives of this groundwater investigation report are to:

1. summarize groundwater elevation data collected on May 23, 1996 and interpret the groundwater gradient; and
2. summarize analytical results of groundwater samples collected on May 23, 1994 and to discuss trends and differences with results of samples collected by Enviros in October 1994. This report references data in the report *Groundwater and Subsurface Soil Investigation at the Tiki Car Wash, Bellevue, Washington* (Enviros, October 12, 1994).



Source: U.S.G.S. 7.5 x 15 Minute Map of Bellevue, Washington dated 1983.

Figure 1. Site vicinity map of Tiki Car Wash, 11909 NE 8th Street, Bellevue, Washington.

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Drawn by: LHE Approved by: *[Signature]* Date: *6/5/96*

2. GROUNDWATER ELEVATION MEASUREMENTS

2.1 Procedures and Results

Groundwater depth measurements were collected from 8 monitoring wells between 9:30 and 10:10 a.m. on May 23, 1996. Water levels were measured using an electronic water level probe and elevations were calculated using top of casing elevations surveyed relative to a local datum. Table 1 lists the 8 wells measured and presents top of casing elevations and groundwater elevations. Note that wells MW-31 and MW-33 have been decommissioned due to construction of a building on the property east of the site. Access to MW-21 is prevented because concrete covers the traffic box cover to the well.

Table 1.

Groundwater Head Elevations Measured
From March 1994 to May 1996.

Well No.	Top of Casing (feet)*	3/12/94 Groundwater Elevation (feet)	7/11/94 Groundwater Elevation (feet)	10/12/94 Groundwater Elevation (feet)	5/23/96 Groundwater Elevation (feet)
MW-2	144.61	141.08	139.08	137.44	141.19
MW-3	145.04	139.71	138.72	137.19	140.80
MW-5	140.90	134.74	134.04	133.45	136.15
MW-6	143.52	140.35	138.76	136.85	140.84
MW-7	144.58	139.91	139.66	137.19	141.16
MW-20	140.57	132.59	132.68	132.40	132.61
MW-23	138.65	136.04	136.78	136.12	136.41
MW-29	144.48	140.21	139.06**	137.29	140.74

* Elevation relative to local datum.

** The measurement was taken on July 12, 1994

2.2 Inferred Groundwater Gradient

Water level measurements indicate, in general, that the groundwater flows toward the southwest with an approximate gradient of 0.05 foot per foot beneath the Tiki site and adjacent properties. Groundwater elevations and the inferred groundwater gradient are shown in Figure 2.

Recharge to the shallow groundwater zone may be occurring in the vicinity of MW-2 as indicated by a higher groundwater elevation in this well compared to nearby wells. This recharge may be due to rainfall and surface water infiltration in this unpaved area used for automobile storage by Barrier Motors.

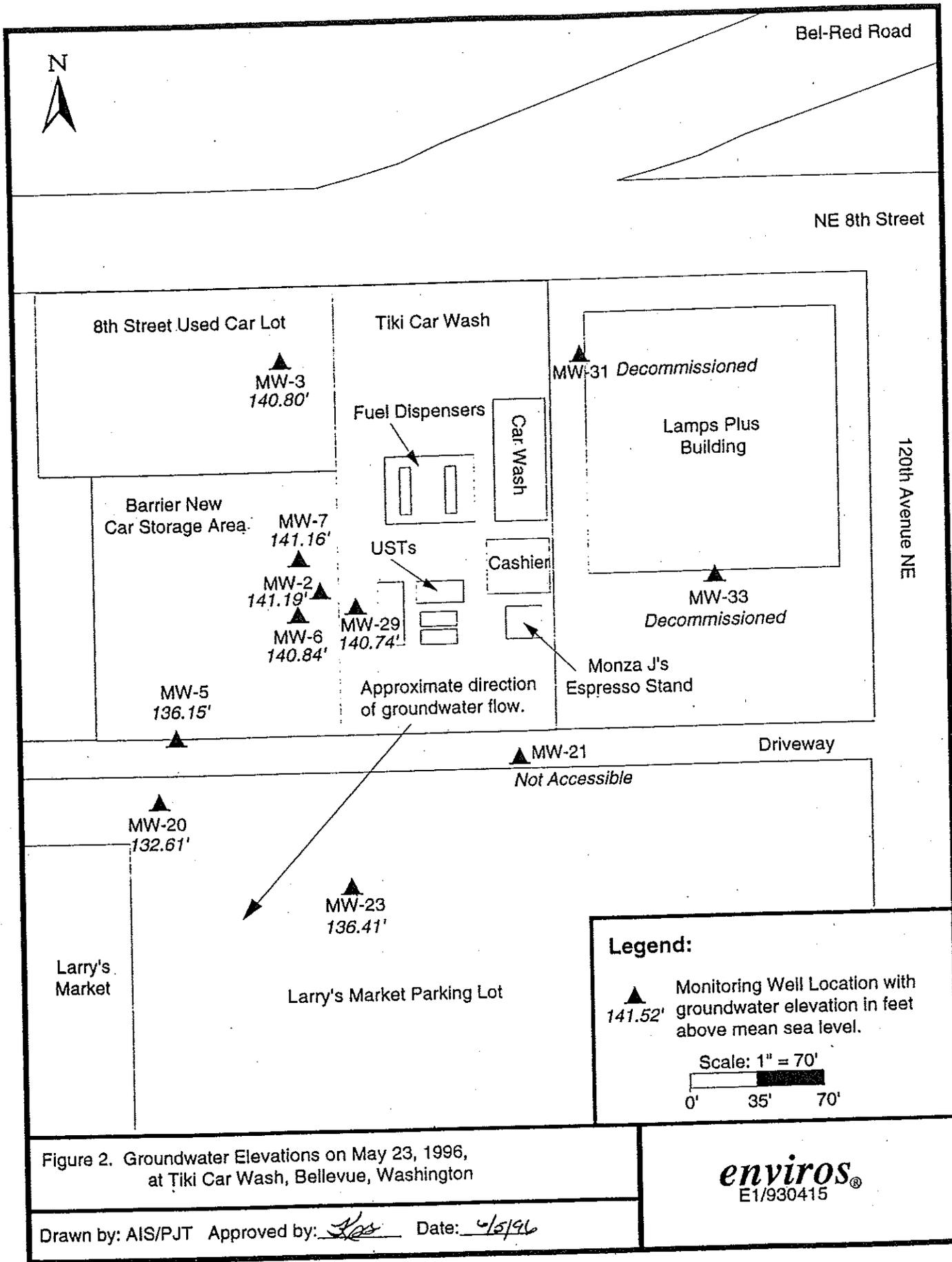


Figure 2. Groundwater Elevations on May 23, 1996, at Tiki Car Wash, Bellevue, Washington

Drawn by: AIS/PJT Approved by: *[Signature]* Date: *5/25/96*

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3. GROUNDWATER SAMPLING

3.1 Procedures and Observations

A total of eight monitoring wells installed by Hart Crowser and AGI in 1989, were sampled on May 23, 1996. As mentioned above, wells MW-31 and MW-33 were decommissioned and conjunction with construction and well MW-21 was covered with cement. All samples were analyzed for gasoline, benzene, toluene, ethylbenzene and total xylenes (BTEX) by Method WTPH-GABTEX.

Groundwater samples were collected after each well was purged a minimum of three times the volume of standing water in the well, or until purged dry. The bailed water was monitored for temperature, pH and conductivity during bailing, as recommended in Guidance for Site Checks and Site Assessments for Underground Storage Tanks (Ecology, 1992). Bailing continued until these parameters stabilized. Groundwater parameters measured prior to sampling are summarized in Table 2.

Table 2.
Parameters Measured Prior to Sample Collection.

Monitoring Well	Temperature (°F)	pH	Conductivity (µS)
MW-2	64.0	6.80	1.10
MW-3	64.0	5.39	1.10
MW-5	64.0	7.00	1.10
MW-6	60.0	6.08	1.11
MW-7	64.2	6.53	1.16
MW-20	64.0	6.50	1.11
MW-23	64.0	7.10	1.10
MW-29	65.5	5.54	1.12

Bailed water was placed in a labeled, 55-gallon drum that was properly disposed off-site. Unfiltered samples were collected from each well with disposable bailers. Samples were stored in 40-mil glass jars with Teflon® septa preserved with hydrochloric acid.

Three (MW-2, MW-6 and MW-7) of the eight monitoring wells were bailed dry or were drawn down to 6 inches of water in the well. Bentonite was observed in the bailed water from wells MW-6 and MW-23.

During field activities it was observed that silica sand had migrated in to the flush mount protective casing of MW-2. Bentonite chips were observed to have migrated in to the flush mount protective casings of MW-6, MW-7 and MW-23. The sand and bentonite, which was removed prior to sampling, was believed to be present because of swelling of the material due to moisture absorbance. In addition, Enviro personnel noted that the top of the pipe used to finish well MW-5 was slotted just below the well cap. It was also noted that surface water was removed from the flush mount protective casings before removing the well caps on all wells except MW-5, which had not accumulated water above the well cap.

Petroleum product odors were noted in monitoring wells MW-29, MW-6, MW-3. A sheen was noted in the purge water from MW-29 and MW-6. Floating product was observed in monitoring well MW-29, approximately 0.3 inch thick in the bailer.

3.2 Field Quality Assurance Procedures

Enviros followed our Corporate Quality Assurance Project Plan (QAPP) to provide scientifically valid data that meet established objectives of known and acceptable quality defined by the Environmental Protection Agency (EPA). Enviros' standard operating procedures (SOPs) specified in the QAPP were used for specific tasks to allow for the consistency and thoroughness of sample collection and data-generation activities.

This sampling event Enviros did not collect field quality assurance/ quality control (QA/QC) samples because of the use of disposable bailers. One field duplicate sample was collected from well MW-2 and labeled MW-2-D. The field duplicate was analyzed for gasoline and gasoline components by Method WTPH-GVBTEX. Analytical results of the duplicate sample are presented in Section 3.4. A blank sample was submitted for analysis (labeled MW-BL), which returned concentrations below the respective detection limits. A purge water sample (labeled PURGE WATER) was obtained from the 55-gallon drum upon completion of field sampling activities. The purge water was contained off-site until proper disposal.

A chain-of-custody was maintained for all samples after collection. The chain-of-custody documented the project, sample numbers, sampling date and time, requested analysis, special instructions and transfer of custody to the analytical laboratory. The chain-of-custody form is included in Appendix A with the analytical reports. Groundwater samples were preserved with hydrochloric acid, and were kept in an iced cooler until delivery to the laboratory within 24 hours.

3.3 Analytical Results

Analytical results of groundwater samples collected to date by Enviros are shown in Table 3. Analytical reports and laboratory QA/QC results for the sampling are presented in Appendix A.

Table 3.

Gasoline and BTEX Results in Groundwater Samples
Collected to Date by Enviros (Concentrations in µg/L or ppb).

Sample	Date	Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes
MW-2	5/3/93	6,900	32*	61*	220*	590*
MW-2	3/24/94	3,900	18	54	150 ^e	359.6 ^e
MW-2	7/11/94	630	54	90	530	1,126
MW-2	10/12/94	11,000	6,400	420	590	1,680
MW-2	5/23/96	6,800	9	24	240	690
MW-3	5/3/93	<50	<0.50*	<0.50*	<0.50*	<1.0*
MW-3	3/24/94	<100	<1.0	<1.0	<1.0	<2.0
MW-3	7/11/94	<100	<1.0	<1.0	<1.0	<2.0
MW-3	10/12/94	<300	<1.0	<1.0	<1.0	<2.0
MW-3	5/23/96	<300	<1.0	<1.0	<1.0	<2.0

Table 3 continued

Sample	Date	Gasoline	Benzene	Toluene	Ethyl- benzene	Xylenes
MW-5	5/3/93	<50	<0.50*	<0.50*	<0.50*	<1.0*
MW-5	3/24/94	<100	<1.0	<1.0	<1.0	<2.0
MW-5	7/12/94	<100	4.4	<1.0	<1.0	<2.0
MW-5	10/12/94	<300	<1.0	<1.0	<1.0	<2.0
MW-5	5/23/96	<300	<1.0	<1.0	<1.0	<2.0
MW-6	5/3/93	29,000	5,100*	5,400*	710*	4,200*
MW-6	3/24/94	56,000	13,000	13,000	1,600	9,200
MW-6	7/11/94	85,000	14,000^e	18,000^e	2,100	11,900
MW-6	10/12/94	130,000	26,000	24,000	3,300	19,200
MW-6	5/23/96	110,000	12,000	24,000	2,500	14,400
MW-7	5/3/93	<50	7.3*	7.7*	0.71*	5.1*
MW-7	3/24/94	<100	<1.0	<1.0	<1.0	<2.0
MW-7	7/11/94	<100	<1.0	<1.0	<1.0	<2.0
MW-7	10/12/94	<300	<1.0	<1.0	<1.0	<2.0
MW-7	5/23/96	<300	<1.0	<1.0	<1.0	<2.0
MW-20	5/3/93	<50	<0.50*	<0.50*	<0.50*	<1.0*
MW-20	3/24/94	<100	<1.0	<1.0	<1.0	<2.0
MW-20	7/11/94	<100	<1.0	<1.0	<1.0	<2.0
MW-20	10/12/94	<300	<1.0	<1.0	<1.0	<2.0
MW-20	5/23/96	<300	<1.0	<1.0	<1.0	<2.0
MW-21	5/3/93	<50	<0.50*	<0.50*	<0.50*	<1.0*
MW-21	3/24/94	<100	<1.0	<1.0	<1.0	<2.0
MW-21	7/12/94	<100	<1.0	<1.0	<1.0	<2.0
MW-21	10/12/94	NA	NA	NA	NA	NA
MW-23	5/3/93	<50	<0.50*	<0.50*	<0.50*	<1.0*
MW-23	3/24/94	<100	<1.0	<1.0	<1.0	<2.0
MW-23	7/11/94	<100	<1.0	<1.0	<1.0	<2.0
MW-23	10/12/94	<300	<1.0	<1.0	<1.0	<2.0
MW-23	5/23/96	<300	<1.0	<1.0	<1.0	<2.0
MW-29	5/3/93	140,000	29,000*	30,000*	2,800*	17,000*
MW-29	3/24/94	100,000	30,000	31,000	2,600	17,100
MW-29	7/12/94	120,000	18,000	18,000	2,300	13,800
MW-29	10/12/94	79,000	28,000^e	13,000^e	2,700	13,600
MW-29	5/23/96	150,000	29,000	36,000	3,000	17,800
MW-31	5/3/93	<50	<0.50*	<0.50*	<0.50*	<1.0*
MW-31	3/24/94	<100	<1.0	<1.0	<1.0	<2.0
MW-31	7/12/94	<100	<1.0	<1.0	<1.0	<2.0
MW-31	10/12/94	NA	NA	NA	NA	NA
MW-33	5/3/93	<50	<0.50*	<0.50*	<0.50*	<1.0*
MW-33	3/24/94	<100	<1.0	<1.0	<1.0	<2.0
MW-33	7/12/94	<100	<1.0	<1.0	<1.0	<2.0
MW-33	10/12/94	<300	<1.0	<1.0	<1.0	<2.0
MW-33	5/23/96	NA	NA	NA	NA	NA
Method A		1,000	5	40	30	20

Entries in **bold italics** exceed MTCA Method A cleanup levels.

NA: Not analyzed

* Samples analyzed by EPA Method 5030/8020. All other samples analyzed by WTPH-GIBTEX Method.

e Value is an estimate.

Model Toxics Control Act (MTCA) Method A cleanup levels are presented in Table 3. Method A cleanup levels are intended to provide conservative cleanup levels for sites undergoing "routine" cleanup actions with relatively few hazardous substances. Entries in bold italics exceed Method A cleanup levels.

3.4 Quality Assurance and Quality Control Results

One field duplicate sample (MW-2-D) was collected from well MW-2 and analyzed for gasoline and gasoline compounds (by Method WTPH-GVBTEX). All analytical results of the duplicate sample are within reasonable limits of the original sample.

Standard laboratory QA/QC procedures were followed by OnSite Environmental, Inc. while conducting groundwater analysis on this project. Review of the analytical data sheets indicates that method blanks (also known as laboratory reagent blanks) were analyzed for gasoline and BTEX. All blank runs returned concentrations below the detection limits.

Matrix spikes and laboratory duplicate analyses of laboratory control samples (LCS) were performed to measure the precision of the compounds analyzed. Analyte percent recoveries are within acceptable limits.

3.5 Discussion of Analytical Results

Samples from monitoring wells MW-2, MW-6 and MW-29 returned gasoline and BTEX concentrations above the MTCA Method A cleanup levels. The remaining wells sampled (MW-3, MW-5, MW-7, MW-20 and MW-23) returned concentrations below their respective detection limits.

Gasoline, benzene, toluene, ethylbenzene and total xylenes concentrations have decreased significantly in monitoring well MW-2 as compared to concentrations measured in October 1994. Gasoline decreased by approximately 38%, and BTEX compounds have decreased by 38% to 99% in well MW-2. Contaminant concentrations in MW-2 have decreased to levels seen in mid-1993 and early 1994.

Gasoline, benzene, ethylbenzene and total xylenes concentrations in MW-6 had moderate decreases ranging from 15% to 54% since October 1994, while the toluene level remained the same.

Approximately 0.3 inches of free product was observed in the initial bailer drawn from MW-29. In comparison, the thickness of free product observed in MW-29 in July and October of 1994 was 0.5 inches. Changes in concentrations of dissolved gasoline and BTEX in MW-29 cannot be interpreted with the continued presence of free product. However, the analyses were conducted so that the gas chromatogram would be available for comparison purposes. Chromatograms for the samples from MW-2, MW-6, and MW-29 are provided in Appendix A.

4. SUMMARY

The groundwater gradient is interpreted to be generally towards the southwest with a magnitude of approximately 0.05 foot per foot. Data suggests that groundwater elevations are impacted by recharge to the shallow groundwater by surface water infiltrating in the unpaved area west of the Tiki Car Wash.

In general, groundwater quality appears to be affected by gasoline and gasoline compounds in three wells located along the western property line of Tiki Car Wash. In the five other wells that were sampled, concentrations of all contaminants were below detection limits.

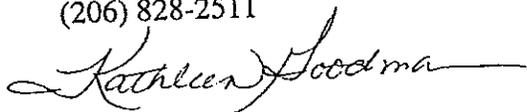
It has been a pleasure to provide our services. If you wish to discuss the contents of this report or have any question, please call our offices at your convenience.

Respectfully submitted,

Enviros Incorporated



Philip Tosh
Environmental Engineer
(206) 828-2511



Kathleen Goodman, R.G.
Principal Geoscientist
(206) 828-2503

cc: E1/930415 files

5. REFERENCES

Enviros, Inc. Report of Groundwater Sampling and Analysis, October, 1994

Enviros, Inc. *Interim Action Report: Groundwater and Subsurface Soil Investigation at the Tiki Car Wash, Bellevue, Washington, July 2, 1993.*

Washington State Department of Ecology, The Model Toxics Control Act Cleanup Regulation Chapter 173-340 WAC. February 1991.

APPENDIX A
ANALYTICAL DATA SHEETS

Date of Report: May 31, 1996
 Samples Submitted: May 23, 1996
 Lab Traveler: 05-075
 Project: 930415

EPA 602 & WTPH-G

Date Extracted: 5-24&28-96
 Date Analyzed: 5-24&28-96

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 05-075-1
 Client ID: MW-2

05-075-2
 PURGE WATER

Dilution Factor

5

100

	Result	Flags	PQL	Result	Flags	PQL
Benzene	9.0		5	5600		100
Toluene	24		5	8200		100
Ethyl Benzene	240		5	870		100
m,p-Xylene	660	D	100	3800		100
o-Xylene	30		5	1800		100
TPH-Gas	6800		500	49000		10000
4-BFB Surrogate Recovery	92%			94%		

D-Data from 1:100 dilution.

Date of Report: May 31, 1996
 Samples Submitted: May 23, 1996
 Lab Traveler: 05-075
 Project: 930415

EPA 602 & WTPH-G

Date Extracted: 5-24&28-96
 Date Analyzed: 5-24&28-96

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 05-075-3
 Client ID: MW-BL

05-075-4
 MW-2-D

	Dilution Factor 1			Dilution Factor 5		
	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		1	9.5		5
Toluene	ND		1	25		5
Ethyl Benzene	ND		1	260		5
m,p-Xylene	ND		1	710	D	100
o-Xylene	ND		1	32		5
TPH-Gas	ND		100	7100		500
4-BFB Surrogate Recovery	93%			95%		

D-Data from 1:100 dilution.

Date of Report: May 31, 1996
 Samples Submitted: May 23, 1996
 Lab Traveler: 05-075
 Project: 930415

EPA 602 & WTPH-G

Date Extracted: 5-24&28-96
 Date Analyzed: 5-24&28-96

Matrix: Water
 Units: ug/L (ppb)

Lab ID:	05-075-7			05-075-8		
Client ID:	MW-6			MW-23		
Dilution Factor	100			1		
	Result	Flags	PQL	Result	Flags	PQL
Benzene	12000	D1	1000	ND		1
Toluene	24000	D1	1000	ND		1
Ethyl Benzene	2500		100	ND		1
m,p-Xylene	9800		100	ND		1
o-Xylene	4600		100	ND		1
TPH-Gas	110000		10000	ND		100
4-BFB Surrogate Recovery	94%			89%		

D1-Data from 1:1000 dilution.

Date of Report: May 31, 1996
Samples Submitted: May 23, 1996
Lab Traveler: 05-075
Project: 930415

EPA 602 & WTPH-G

Date Extracted: 5-24&28-96
Date Analyzed: 5-24&28-96

Matrix: Water
Units: ug/L (ppb)

Lab ID: 05-075-11
Client ID: MW-29

Dilution Factor 1000

	Result	Flags	PQL
Benzene	29000		1000
Toluene	36000		1000
Ethyl Benzene	3000	D	100
m,p-Xylene	12000		1000
o-Xylene	5800	D	100
TPH-Gas	150000	D	10000
4-BFB Surrogate Recovery	100%		

D-Data from 1:100 dilution.

Date of Report: May 31, 1996
Samples Submitted: May 23, 1996
Lab Traveler: 05-075
Project: 930415

EPA 602 & WTPH-G
METHOD BLANK QUALITY CONTROL

Date Extracted: 5-24-96
Date Analyzed: 5-24-96

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0524W1

Dilution Factor

1

	Result	Flags	PQL
Benzene	ND		1
Toluene	ND		1
Ethyl Benzene	ND		1
m,p-Xylene	ND		1
o-Xylene	ND		1
TPH-Gas	ND		100
4-BFB Surrogate Recovery	92%		

Date of Report: May 31, 1996
Samples Submitted: May 23, 1996
Lab Traveler: 05-075
Project: 930415

EPA 602 & WTPH-G
DUPLICATE QUALITY CONTROL

Date Extracted: 5-28-96
Date Analyzed: 5-28-96

Matrix: Water
Units: ug/L (ppb)

Lab ID:	05-081-4 Original	05-081-4 Duplicate	RPD
Dilution Factor	1	1	
Benzene	ND	ND	NA
Toluene	ND	ND	NA
Ethyl Benzene	ND	ND	NA
m,p-Xylene	ND	ND	NA
o-Xylene	ND	ND	NA
TPH-Gas	ND	ND	NA
4-BFB			
Surrogate Recovery	92%	90%	

Date of Report: May 31, 1996
 Samples Submitted: May 23, 1996
 Lab Traveler: 05-075
 Project: 930415

EPA 602 & WTPH-G
 MS/MSD QUALITY CONTROL

Date Extracted: 5-28-96
 Date Analyzed: 5-28-96

Matrix: Water
 Units: ug/L (ppb)

Lab ID spiked @ 50 ppb Diffusion Factor	05-081-4		05-081-4		RPD
	MS 1	Percent Recovery	MSD 1	Percent Recovery	
Benzene	44.8	90%	47.4	95%	5.6
Toluene	44.8	90%	47.2	94%	5.2
Ethyl Benzene	44.7	89%	47.3	95%	5.7
m,p-Xylene	45.0	90%	47.3	95%	5.0
o-Xylene	44.7	89%	47.0	94%	5.0
4-BFB Surrogate Recovery	93%		96%		

OnSite Environmental Inc.
 14924 NE 31st Circle • Redmond, WA 98052
 Fax: (206) 885-4603 • Phone: (206) 883-3881

Company: **ENVIROS**
 Project No: **470115**
 Project Name: **TULLY WOODHILL**
 Project Manager: **TRU JENSEN 828-2520**

Project Chemist: **AGB** Laboratory No. **05-075**

Requested Analysis

WTPH-HCID	WTPH-G/BTEX	WTPH-D	WTPH-418.1	Volatiles by 8240/624	Volatiles by 8260	Chlorinated Volatiles by 8240/8260/624	Semivolatiles by 8270/625	PAHs by 8270/625	PCB's by 8080/608	Total RCRA Metals (8)	TCLP Metals	% Moisture
	X											

Turn Around Requested (Check One)

Same Day

24 Hours

48 Hours

Standard

(other)

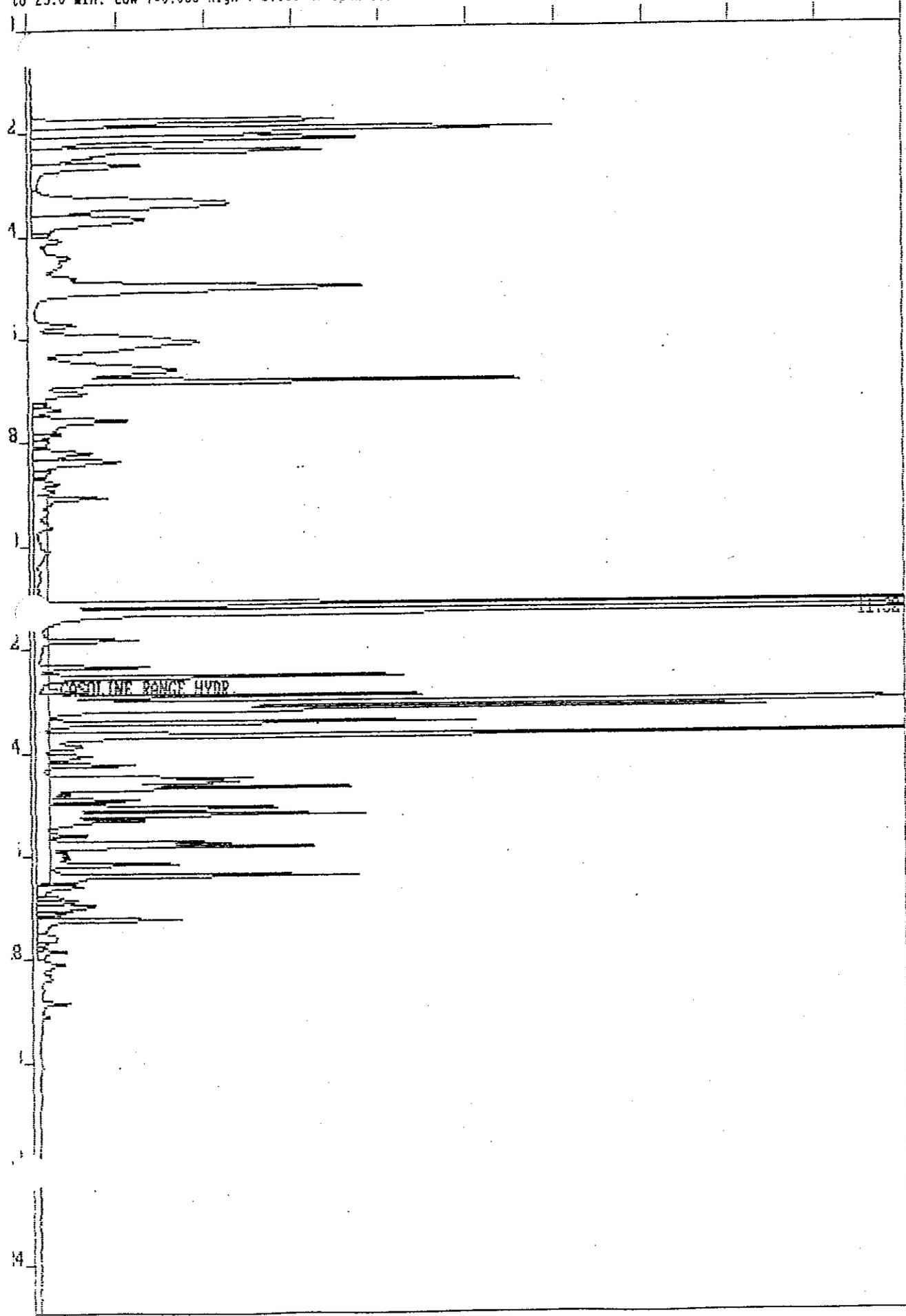
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2		7/3	10:00	W	1
3	MW-29	7/3	10:00	W	1
4	MW-28	7/3	10:00	W	1
5	MW-29	7/3	10:00	W	1
6	MW-20	7/3	10:00	W	1
7	MW-6	7/3	10:00	W	1
8	MW-7	7/3	10:00	W	1
9	MW-7	7/3	10:00	W	1
10	MW-7	7/3	10:00	W	1
11	MW-29	7/3	10:00	W	1

COMMENTS:

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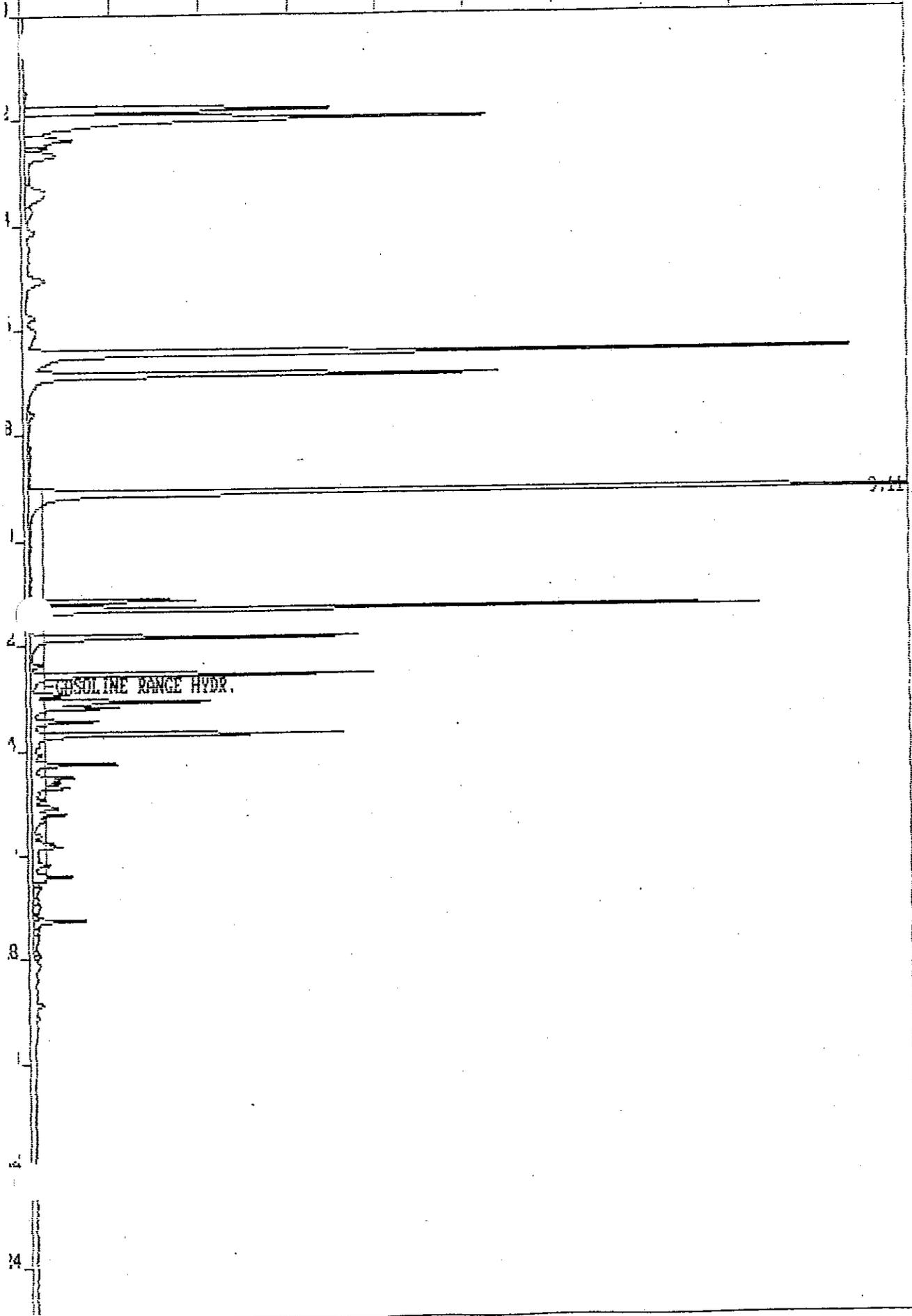
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to 25.0 min. Low Y=0.065 High Y=5.065 av Span=5.0

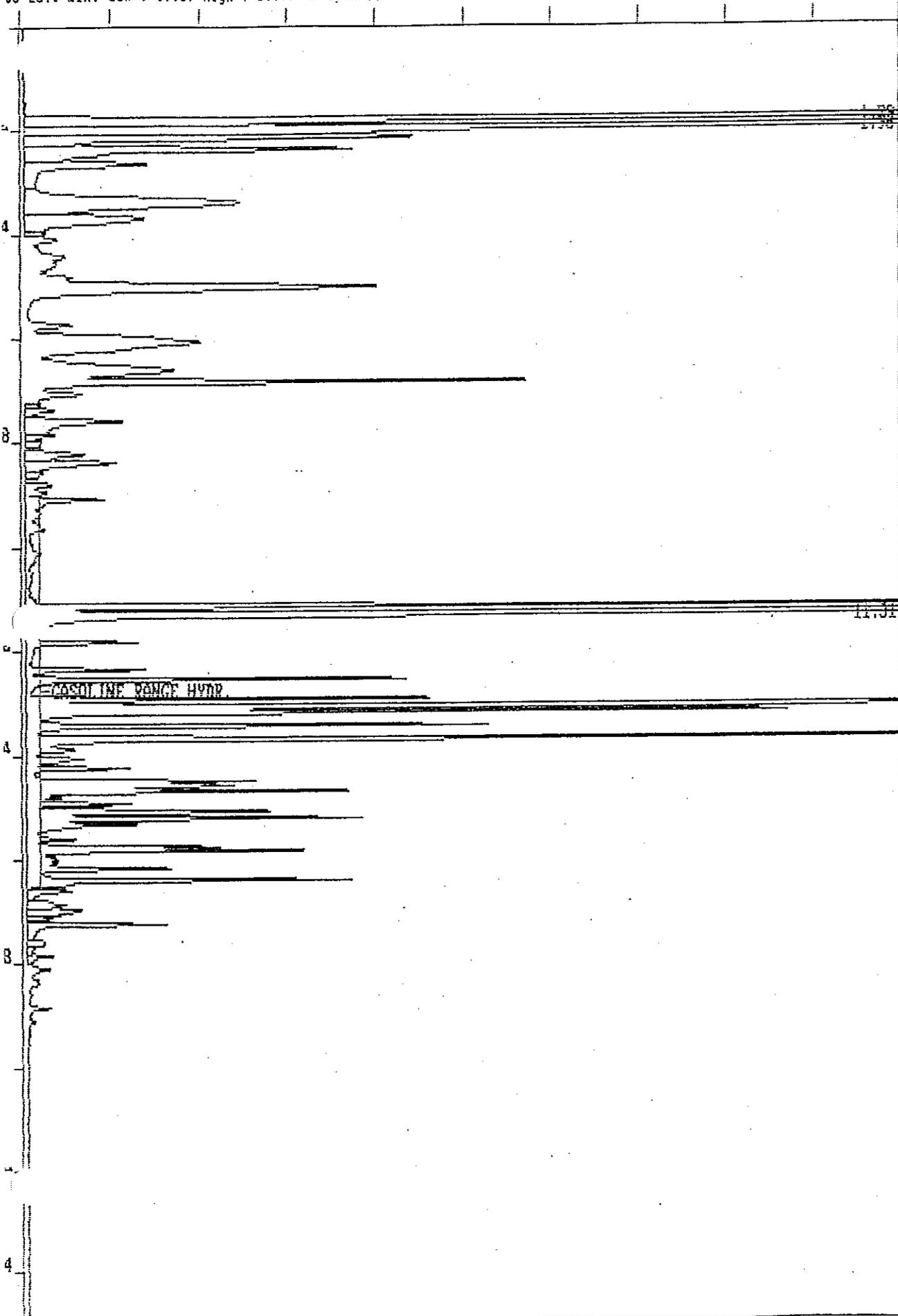


Sample ID MU-2
Method WTPH-6

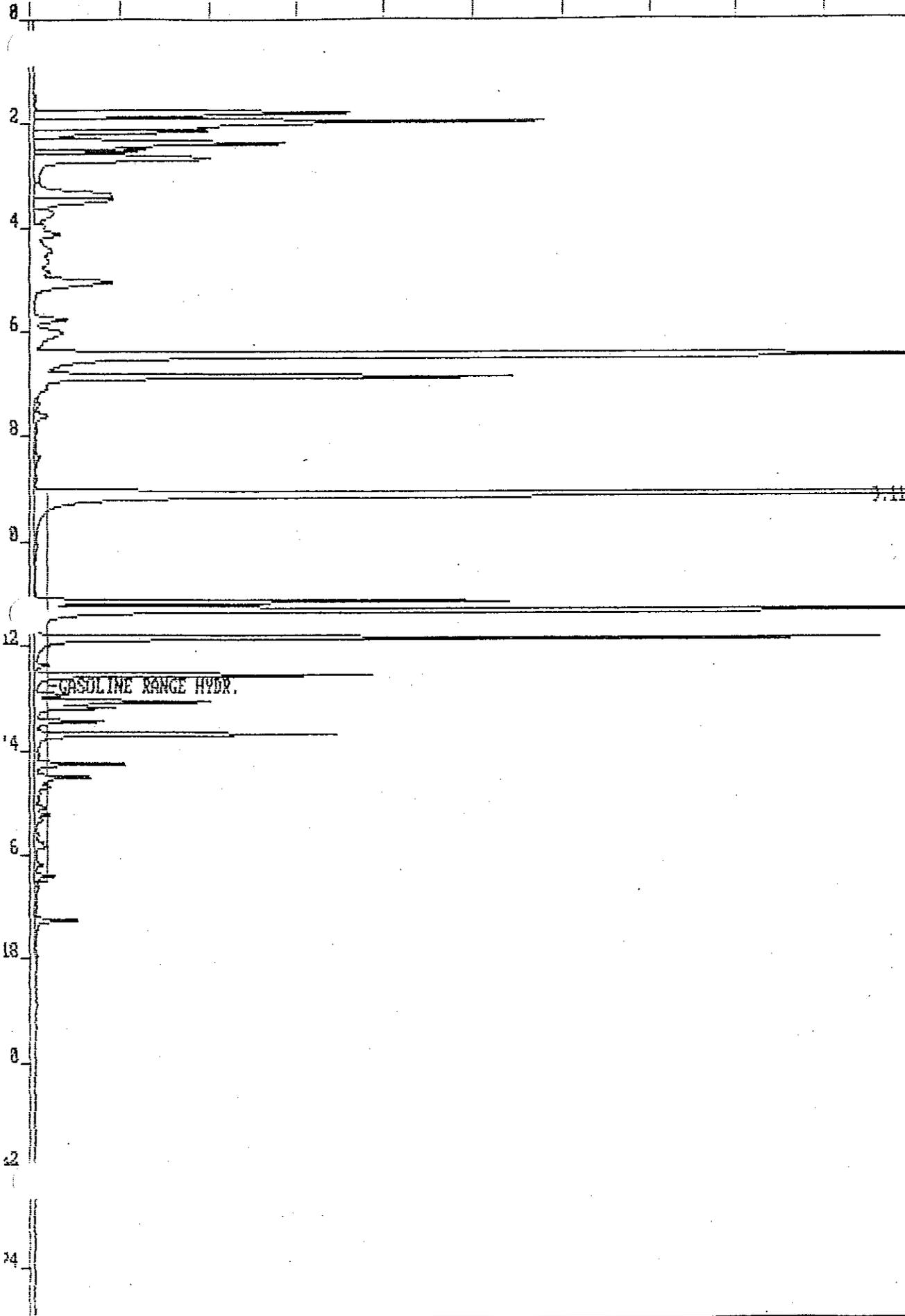
=C:\CP\DATA1\0524G.24R Date printed=06-05-1996 Time= 08:43:43
le Name=05-075-2 1:100
to 25.0 min. Low Y=0.063 High Y=5.063 av Span=5.0



Sample ID. Purge Water
Method WTPH-G

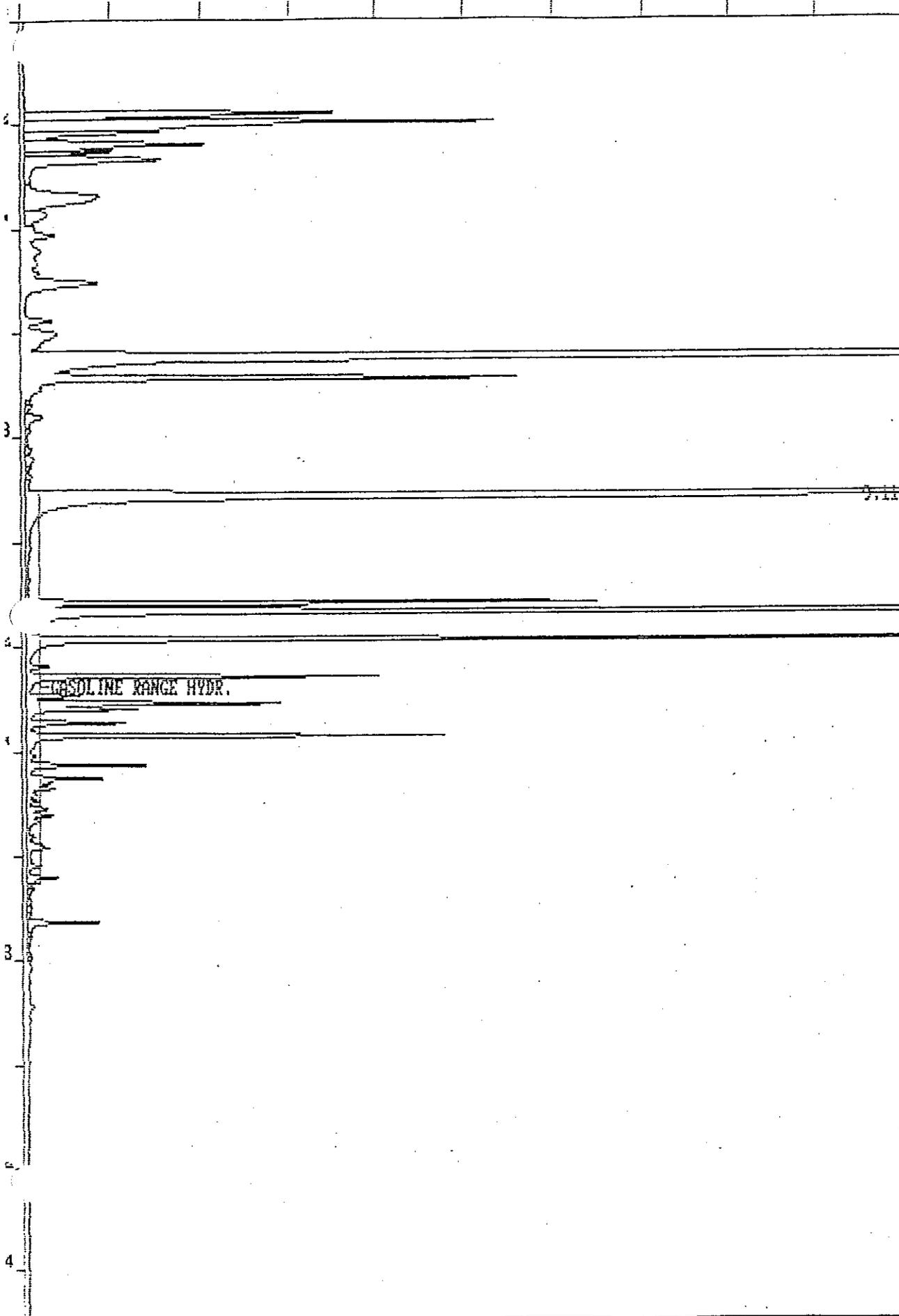


Sample ID: MW-2D
Method: WTPH-G



Sample ID. MW-6
Method WTFH-G

:C:\CP\DATA1\0524G.27R Date printed=06-05-1996 Time= 08:50:36
le Name=05-075-11 1:100
to 25.0 min. Low Y=0.064 High Y=5.064 av Span=5.0



Sample ID. MW-29
Method WPH-6