

May 31, 1996

15,881.001

Mr. Joseph L. Glassman
Director of Environmental Programs
Front Royal Environmental Insurance Management, Inc.
512 North Oakland Street
Arlington, Virginia 22203

Dear Mr. Glassman:

**Groundwater Monitoring Well Sampling Results
Winlock School District Bus Garage
Winlock, Washington**

This letter documents groundwater monitoring well sampling activities performed by AGI Technologies (AGI) from June 1995 through March 1996 at the Winlock School District Bus Garage in Winlock, Washington. AGI's services were performed in accordance with our August 18, 1995 proposal.

BACKGROUND

The Winlock School District Bus Garage location is shown on **Figure 1**. AGI installed four groundwater monitoring wells on June 29, 1995 at locations shown on **Figure 2**. Geologic logs and well construction summaries for the wells are attached. The monitoring wells were installed after the removal of three underground storage tanks and petroleum-contaminated soil by others in March 1995. Soil containing gasoline-range petroleum hydrocarbon concentrations above Washington State Method A (routine site) soil cleanup levels¹ reportedly remains in place below the northeast portion of the bus garage. AGI's well installation is documented in a letter to Front Royal Environmental Insurance Management Inc. dated August 18, 1995.

¹ Method A suggested cleanup level for residential soil promulgated under Washington Administrative Code (WAC), Chapter 173-340, Model Toxics Control Act Cleanup Regulation.

GROUNDWATER MONITORING RESULTS

The four monitoring wells have been sampled on four separate occasions: June 29, September 28, and December 28, 1995 and March 28, 1996. Water levels in the wells were measured prior to sampling to prepare maps showing relative groundwater elevation contours and inferred flow direction. This information is included on Figures 3 through 6, and indicate an east/southeast flow direction toward Olequa Creek. Groundwater elevation data for MW1 through MW4 are presented in Table 1. The data indicate the water level fluctuates by between 1.71 and 2.08 feet in monitoring wells MW1, MW3, and MW4. The water level in MW2 fluctuates by as much as 5.48 feet.

Groundwater analytical results are summarized in Table 2. Fuel hydrocarbons quantified as gasoline and/or gasoline components (BETX) were consistently detected in monitoring wells MW1 and MW2. Fuel hydrocarbons were detected in MW3 during the first three monitoring rounds and in MW4 during the first monitoring round. Detections above routine site cleanup levels remain in MW1 and MW2 as of the last sampling round in March 1996. These constituents include benzene in MW1 and benzene, xylenes, and TPH quantified as gasoline in MW2. Copies of the laboratory reports are attached.

CONCLUSIONS AND RECOMMENDATIONS

The groundwater monitoring laboratory results obtained over four quarters (June 1995 through March 1996) show a general decrease in fuel hydrocarbons in groundwater. We believe these concentrations will continue to decline over time through natural attenuation and therefore no further action is warranted at this time.

The petroleum-contaminated soil which reportedly remains in place beneath the northeast portion of the bus garage should be removed when the structure is demolished. Mr. Larry Hearst, Winlock School District Superintendent, reports that the school district has no plans at this time to demolish the garage, or to redevelop or sell the property.

LIMITATIONS

This letter was prepared for exclusive use by Front Royal Environmental Insurance Management, Inc. and its consultants for this project only. The analyses, conclusions, and recommendations in this letter are based on conditions encountered at the time of our study and our experience and professional judgement. AGI cannot be held responsible for the interpretation by others of the data contained herein.

Mr. Joseph L. Glassman
Front Royal Environmental Insurance Management, Inc.
May 31, 1996
Page 3



Our services have been performed in the manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the area. No other warranty, express or implied, is made.

Sincerely,

AGI Technologies

A handwritten signature in dark ink, appearing to read "P.P.B.", written over the printed name.

Peter P. Barry
Associate Hydrogeologist

A handwritten signature in dark ink, appearing to read "G. Laakso", written over the printed name.

Gary Laakso
Principal Scientist

PPB/GLL/tag

attachments

cc: Mr. Larry Hearst, Winlock School District

Table 1
Groundwater Monitoring Well and Water Level Data

Front Royal/Winlock School District

Winlock, Washington

Monitoring Well I.D.	Date Measured	Top of Casing Elevation ^a (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)
MW1	06/29/95	97.38	12.69	84.69
	09/28/95		12.81	84.57
	12/28/95		12.00	85.38
	03/28/96		11.10	86.28
MW2	06/29/95	97.98	10.42	87.56
	09/28/95		9.63	88.35
	12/28/95		6.26	91.72
	03/28/96		4.94	93.04
MW3	06/29/95	99.25	7.25	92.00
	09/28/95		6.64	92.61
	12/28/95		5.39	93.86
	03/28/96		5.82	93.43
MW4	06/29/95	99.17	5.06	94.11
	09/28/95		3.81	95.36
	12/28/95		2.98	96.19
	03/28/96		3.40	95.77

Notes:

a) Top of casing elevations were surveyed to an arbitrary datum of 100.00 feet.

Table 2
Summary of Analytical Results - Groundwater

Front Royal/Winlock School District

Winlock, Washington

Sample Location	Sample ID	Date Sampled	EPA Test Method				Washington State Test Method
			BETX 5030/8020				TPH-G
			Benzene	Ethylbenzene	Toluene	Xylenes	
			µg/L				µg/L
MW1	W-1	06/29/95	8.5	1.4	1.6	1.4	150
	W-5	09/28/95	92	0.84	ND	0.5	ND
	W-9	12/28/95	30	0.60	0.59	1.3	ND
	W-13	03/28/96	42	1.5	ND	2.2	ND
MW2	W-2	06/29/95	390	240	400	1,100	9,700
	W-6	09/28/95	280	270	390	940	8,800
	W-10	12/28/95	6.5	17	2.3	34	2,600
	W-14	03/28/96	6.0	16	3.6	27	2,900
MW3	W-3	06/29/95	ND	ND	ND	ND	75
	W-7	09/28/95	3.5	ND	ND	ND	ND
	W-11	12/28/95	0.55	ND	ND	ND	ND
	W-15	03/28/96	ND	ND	ND	ND	ND
MW4	W-4	06/29/95	ND	ND	ND	ND	130
	W-8	09/28/95	ND	ND	ND	ND	ND
	W-12	12/28/95	ND	ND	ND	ND	ND
	W-16	03/28/96	ND	ND	ND	ND	ND
Method Reporting Limit ^a			0.50	0.50	0.50	0.50	100
Method A Cleanup Levels ^b			5	30	40	20	1,000

a) Method reporting limit as of 3/28/96.

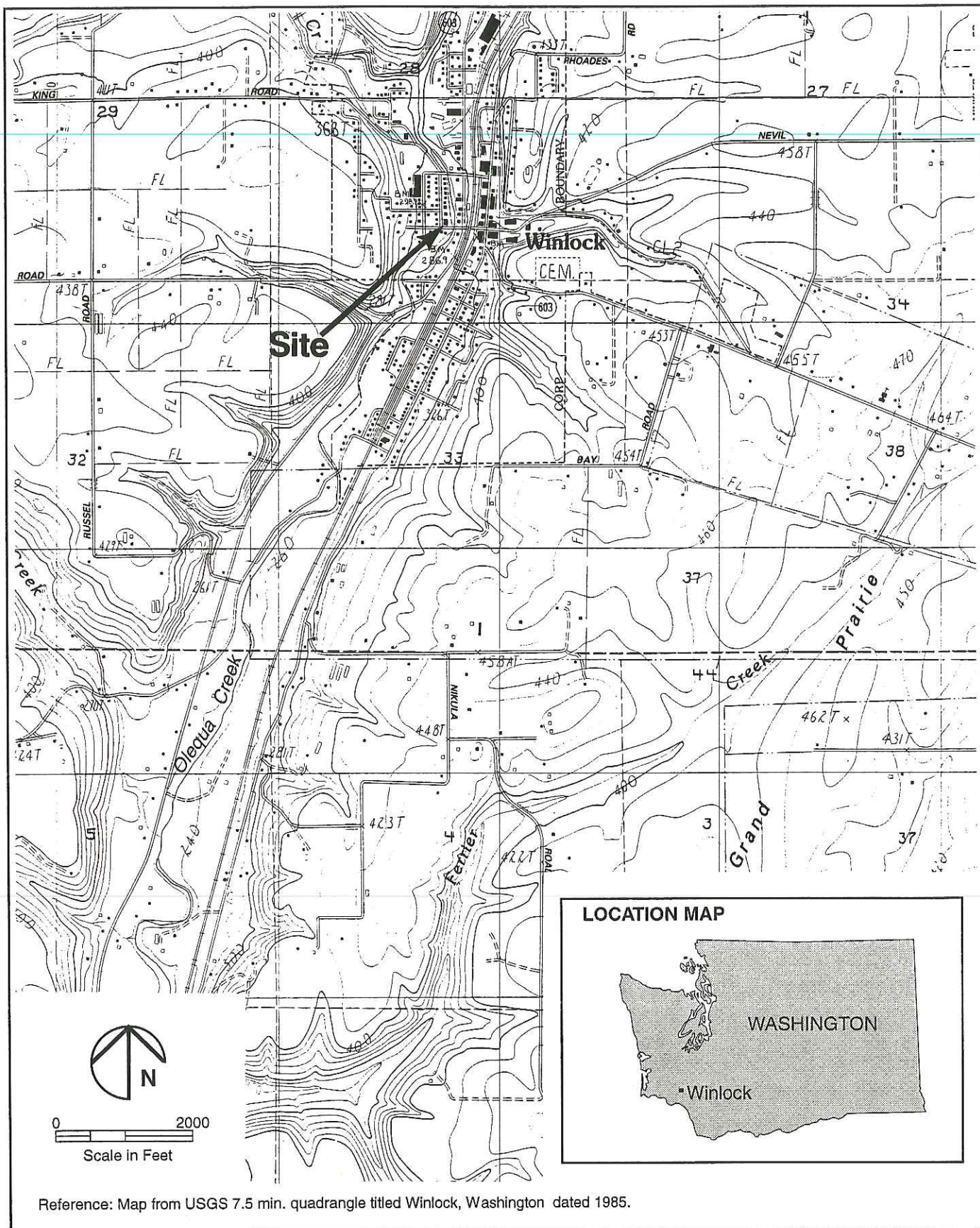
b) Method A suggested cleanup level for groundwater promulgated under Washington Administrative Code Chapter 173-340, Model Toxics Control Act Cleanup Regulation.

ND - Not detected.

TPH-G - Total petroleum hydrocarbons quantified as gasoline.

µg/L - Micrograms per liter.





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Vicinity Map
Front Royal/Winlock School District
Winlock, Washington

FIGURE

1

PROJECT NO.
15,881.001

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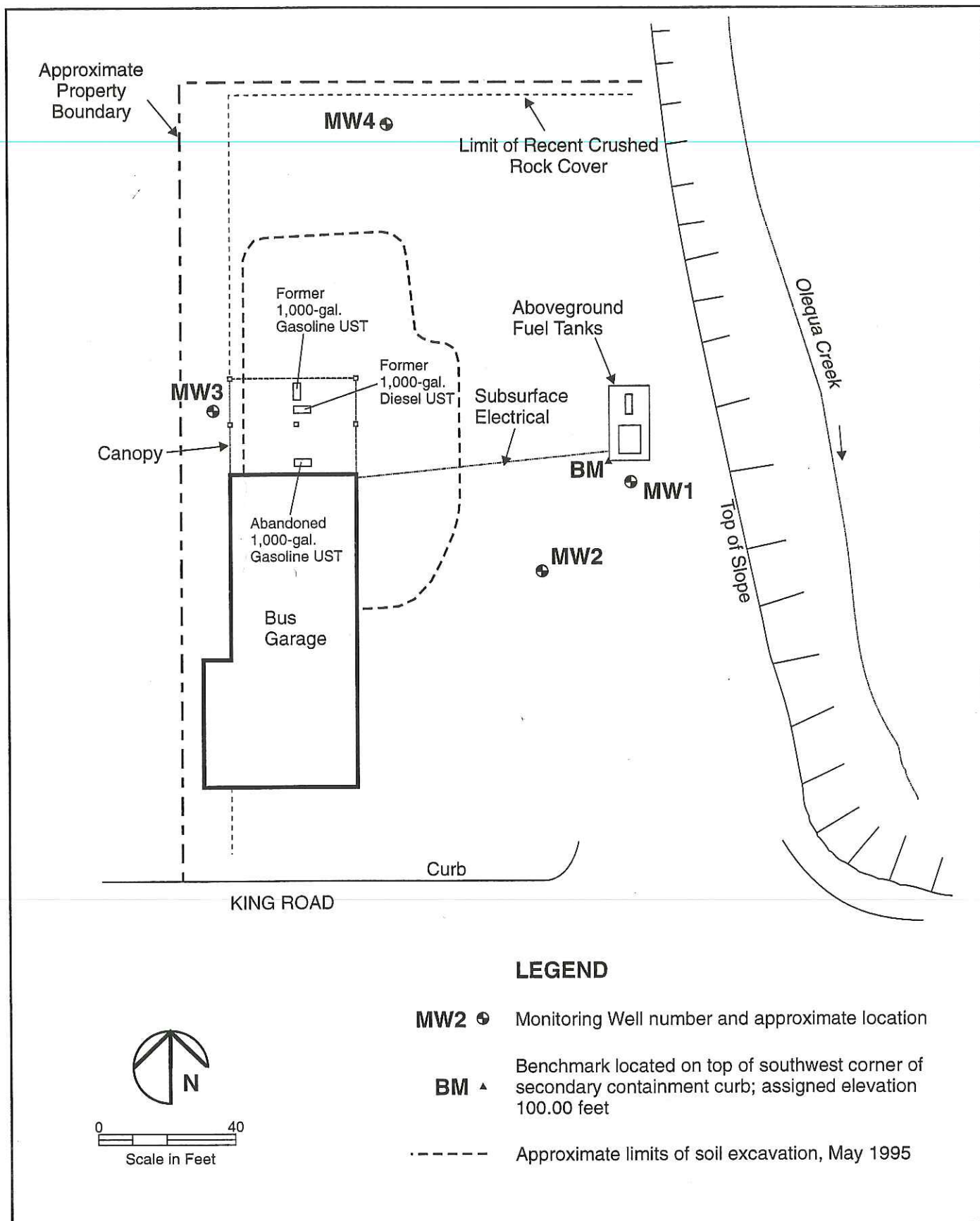
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17 Jul 95

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DATE



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TECHNOLOGIES

siteplan.cdr

PROJECT NO.
15,881.001

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DFF

DATE
10 Jul 95

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MSC

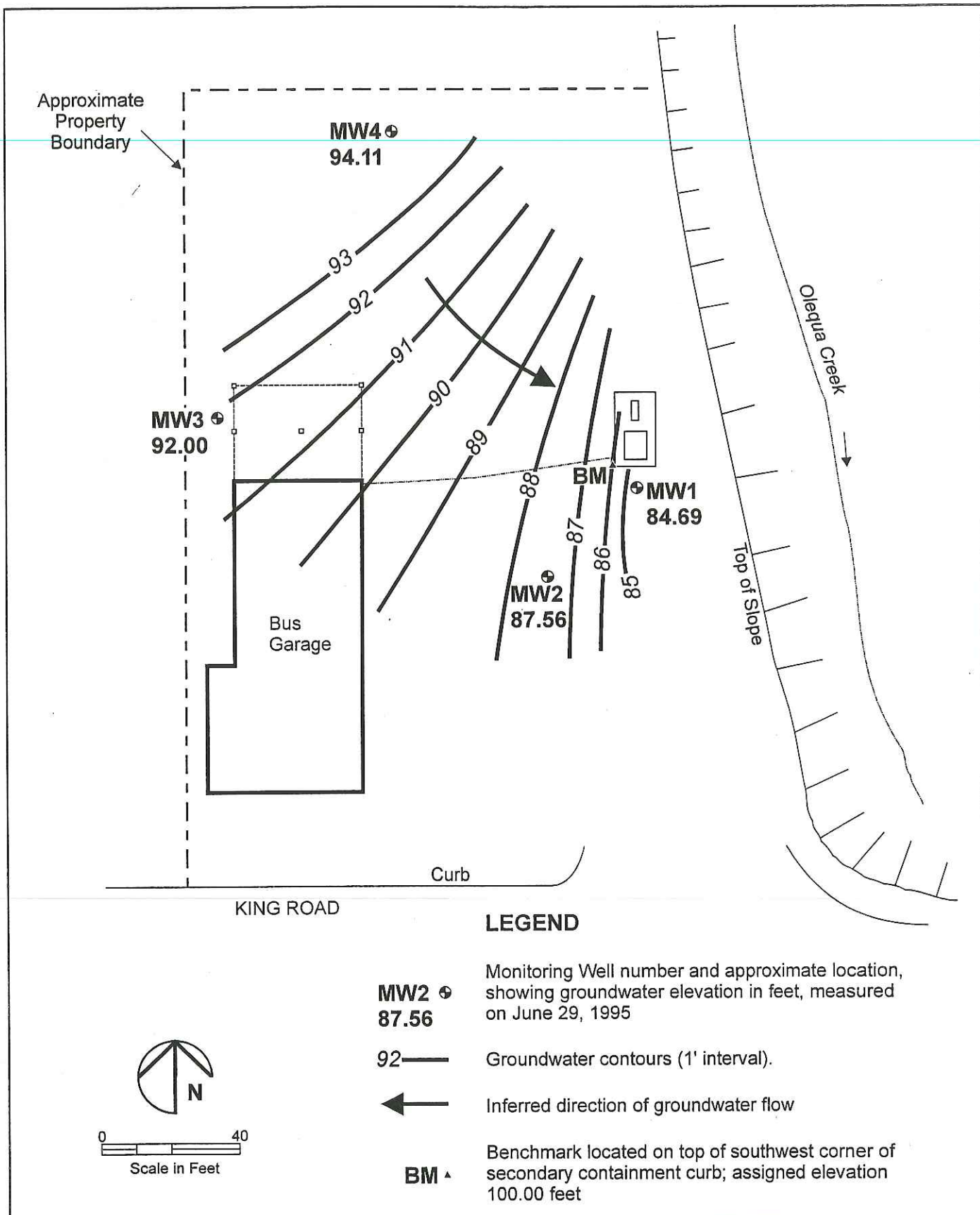
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FIGURE

2

DATE

Site Plan
Front Royal/Winlock School District
Winlock, Washington



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grdwater.cdr

Groundwater Elevation and Contour Diagram

Front Royal/Winlock School District
Winlock, Washington

PROJECT NO.
15,881.001

DRAWN
DFF

DATE
10 Jul 95

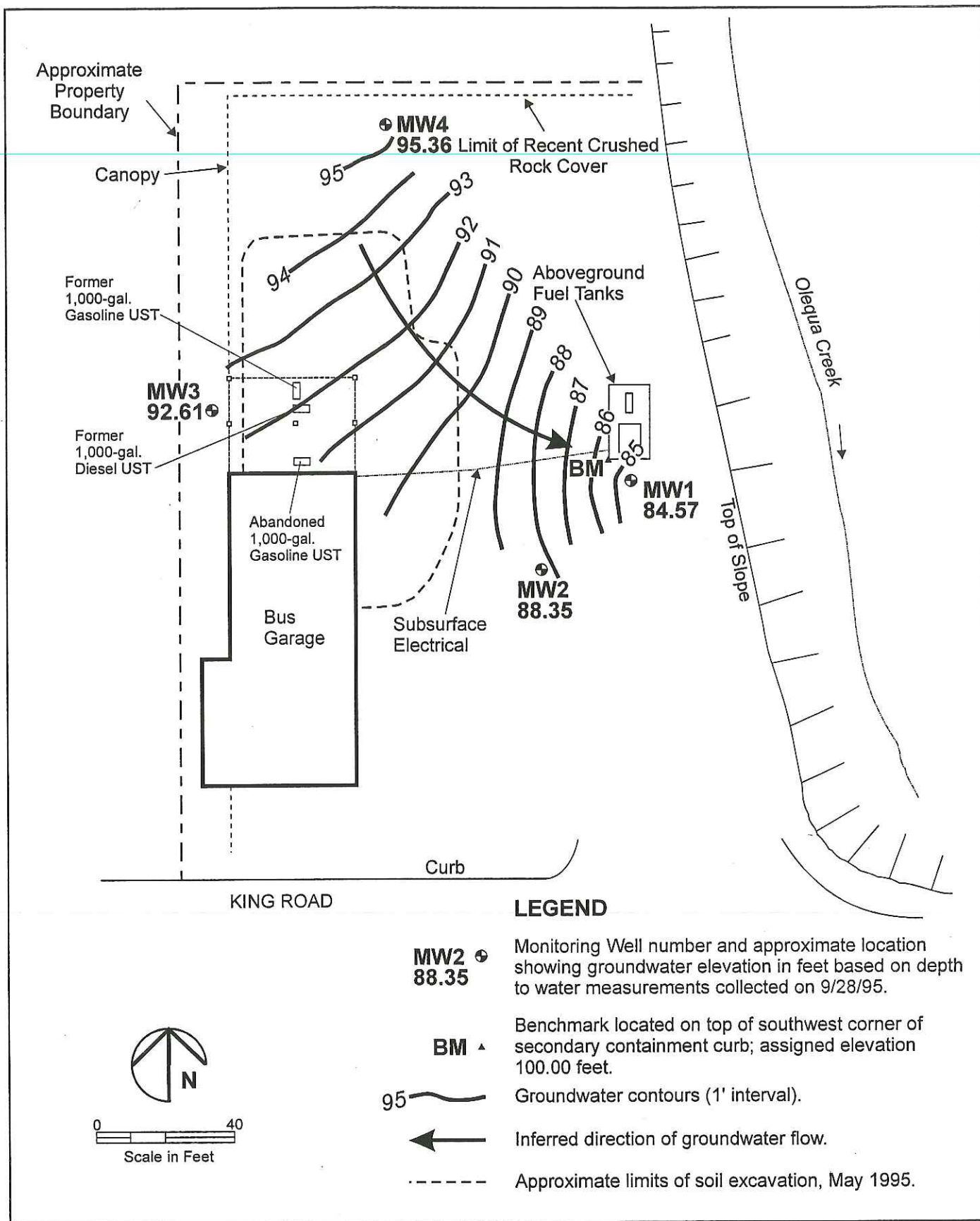
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FIGURE

3

DATE



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grndwatr.cdr

Groundwater Elevation and Contour Diagram

Front Royal/Winlock School District
Winlock, Washington

PROJECT NO.
15,881.001

DRAWN
DFF/ALW

DATE
10 Jul 95

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FIGURE

4

DATE

Approximate
Property
Boundary

Canopy

Former
1,000-gal.
Gasoline UST

Former
1,000-gal.
Diesel UST

MW3
93.86

Abandoned
1,000-gal.
Gasoline UST

Bus
Garage

MW4
96.19

Limit of Recent Crushed
Rock Cover

Aboveground
Fuel Tanks

BM

MW1
85.38

MW2
91.72

Subsurface
Electrical

Curb

KING ROAD

Olequa Creek

Top of Slope

LEGEND

MW2 ●
91.72

Monitoring Well number and approximate location showing groundwater elevation in feet based on depth to water measurements collected on 12/28/95.

BM ▲

Benchmark located on top of southwest corner of secondary containment curb; assigned elevation 100.00 feet.

96

Groundwater contours (1' interval).



Inferred direction of groundwater flow.



Approximate limits of soil excavation, May 1995.



0 40
Scale in Feet

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gw-dec28.cdr

Groundwater Elevation and Contour Diagram

Front Royal/Winlock School District
Winlock, Washington

FIGURE

5

PROJECT NO.
15,881.001

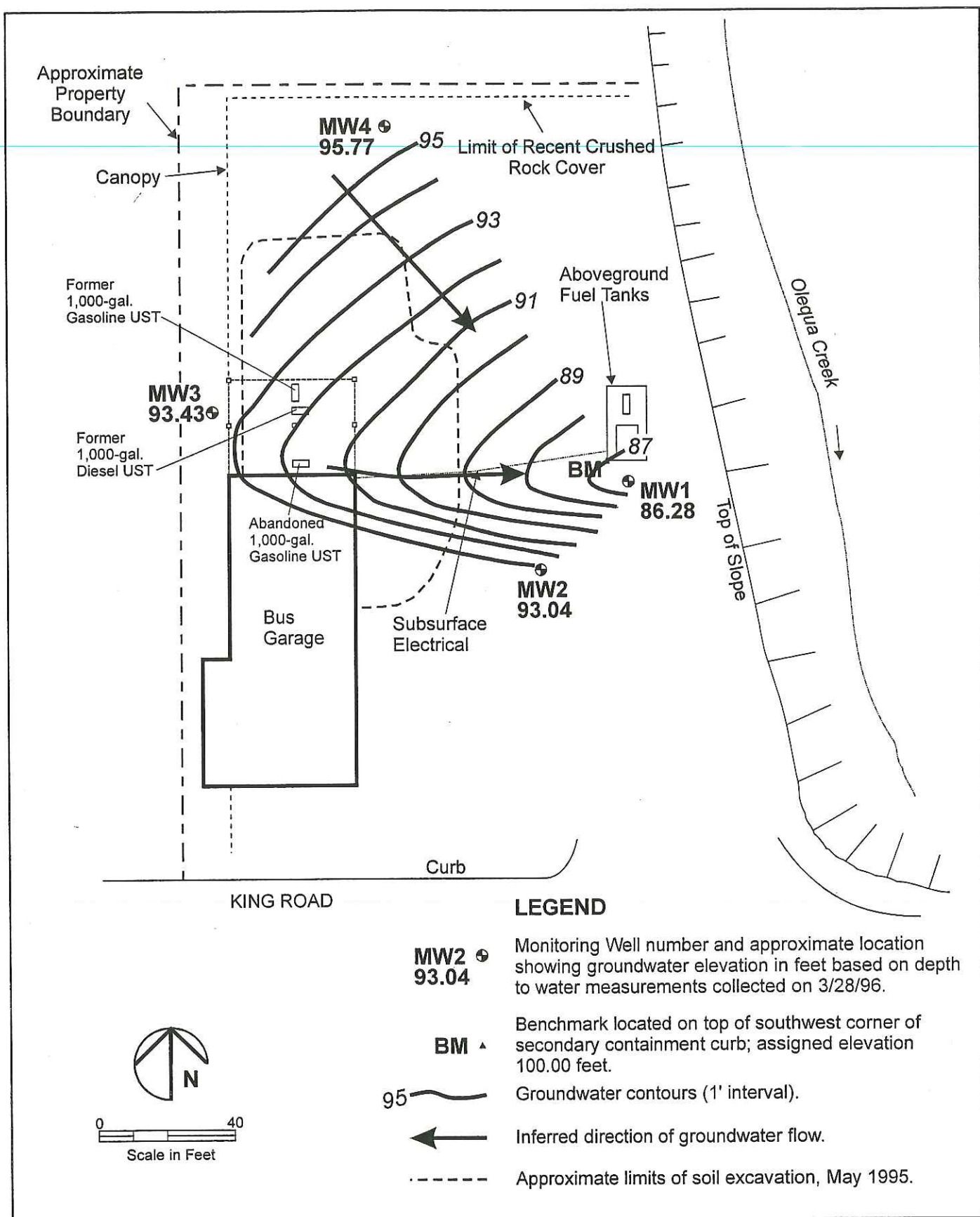
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10 Jul 95

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REVISED
ALW

DATE
15 Jan 96



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gw-mar28.cdr

Groundwater Elevation and Contour Diagram

Front Royal/Winlock School District
Winlock, Washington

PROJECT NO.
15,881.001

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DFF

DATE
10 Jul 95

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ALW

FIGURE

6

DATE
15 Jan 96

ATTACHMENTS

Geologic Logs and Well Construction Summaries
for MW1 Through MW4

Laboratory Reports

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS				TYPICAL NAMES
COARSE GRAINED SOILS More than half is larger than No. 200 Sieve	GRAVELS More than half coarse fraction is larger than No. 4 sieve size	Clean gravels with little or no fines	GW	Well graded gravels, gravel-sand mixtures
			GP	Poorly graded gravels, gravel-sand mixtures
		Gravels with over 12% fines	GM	Silty Gravels, poorly graded gravel-sand-silt mixtures
			GC	Clayey gravels, poorly graded gravel-sand-clay mixtures
	SANDS More than half coarse fraction is smaller than No. 4 sieve size	Clean sands with little or no fines	SW	Well graded sands, gravelly sands
			SP	Poorly graded sands, gravelly sands
		Sands with over 12% fines	SM	Silty sand, poorly graded sand-silt mixtures
			SC	Clayey sands, poorly graded sand-clay mixtures
FINE GRAINED SOILS More than half is smaller than No. 200 Sieve	SILTS AND CLAYS Liquid limit less than 50	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, or clayey silts with slight plasticity	
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
		OL	Organic clays and organic silty clays of low plasticity	
	SILTS AND CLAYS Liquid limit greater than 50	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	
		CH	Inorganic clays of high plasticity, fat clays	
		OH	Organic clays of medium to high plasticity, organic silts	
	HIGHLY ORGANIC SOILS		PT	Peat and other highly organic soils

SAMPLE

- "Undisturbed"
- ▨ Bulk/Grab
- Not Recovered
- ▩ Recovered, Not Retained

CONTACT BETWEEN UNITS

- Well Defined Change
- Gradational Change
- - - - - Obscure Change
- End of Exploration

PHYSICAL PROPERTY TESTS

- Consol - Consolidation
- LL - Liquid Limit
- PL - Plastic Limit
- Gs - Specific Gravity
- SA - Size Analysis
- TxS - Triaxial Shear
- TxP - Triaxial Permeability
- Perm - Permeability
- Po - Porosity
- MD - Moisture/Density
- DS - Direct Shear
- VS - Vane Shear
- Comp - Compaction
- UU - Unconsolidated, Undrained
- CU - Consolidated, Undrained
- CD - Consolidated, Drained

BLOWS PER FOOT

Hammer is 140 pounds with 30-inch drop, unless otherwise noted
 S - SPT Sampler (2.0-Inch O.D.)
 T - Thin Wall Sampler (2.8-Inch Sample)
 H - Split Barrel Sampler (2.4-Inch Sample)

MOISTURE DESCRIPTION

Dry - Considerably less than optimum for compaction
 Moist - Near optimum moisture content
 Wet - Over optimum moisture content
 Saturated - Below water table, in capillary zone, or in perched groundwater

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Soil Classification/Legend

Front Royal/Winlock School District
Winlock, Washington

PLATE

1

soilcls.cdr

PROJECT NO.
15,881.001

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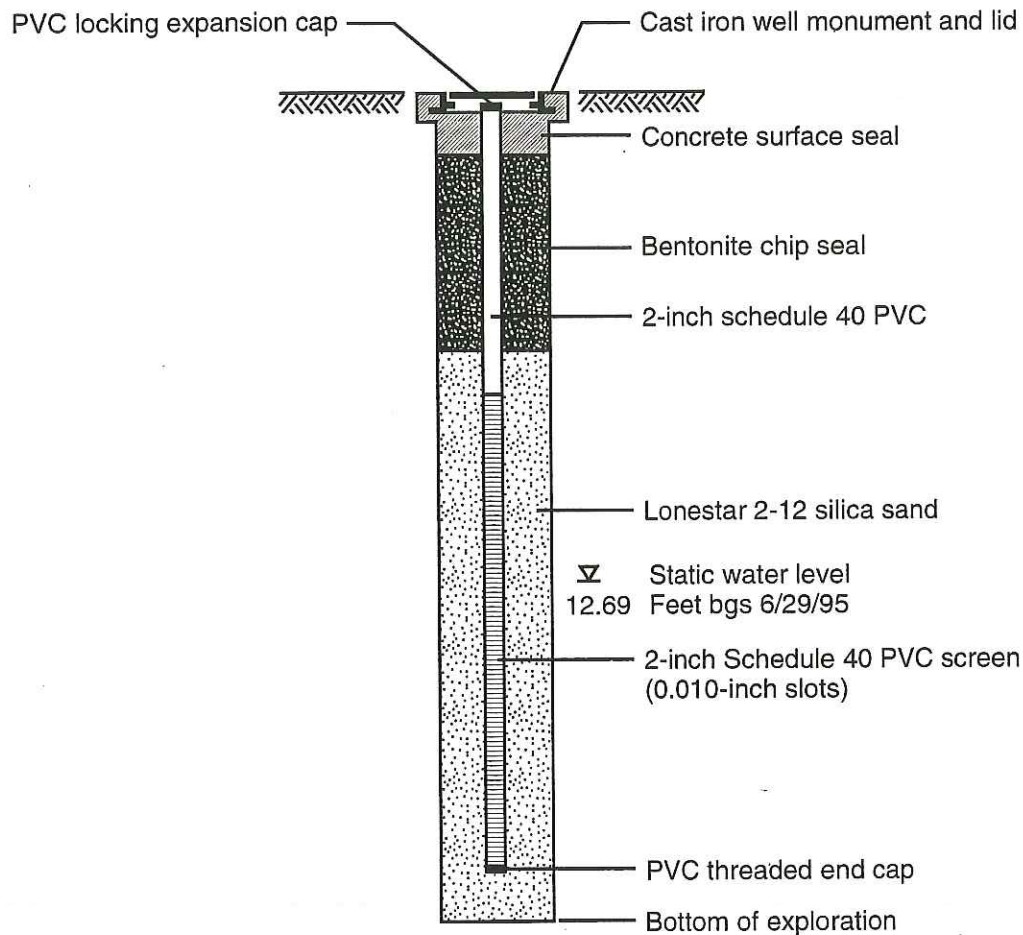
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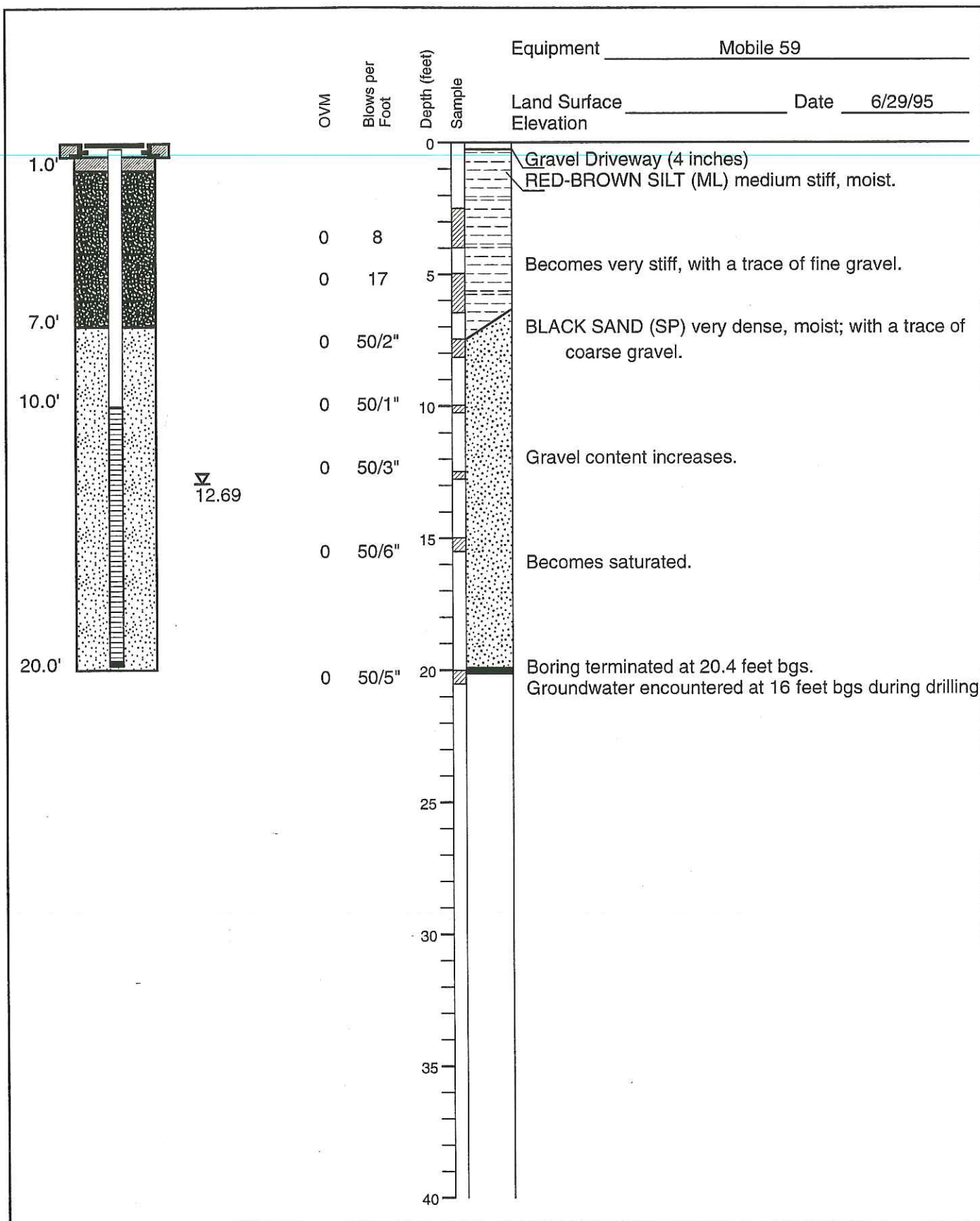
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TECHNOLOGIES

wellog.cdr

PROJECT NO.
15,881.001

DRAWN
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Log of Monitor Well MW1
Front Royal/Winlock School District
Winlock, Washington

DATE
10 Jul 95

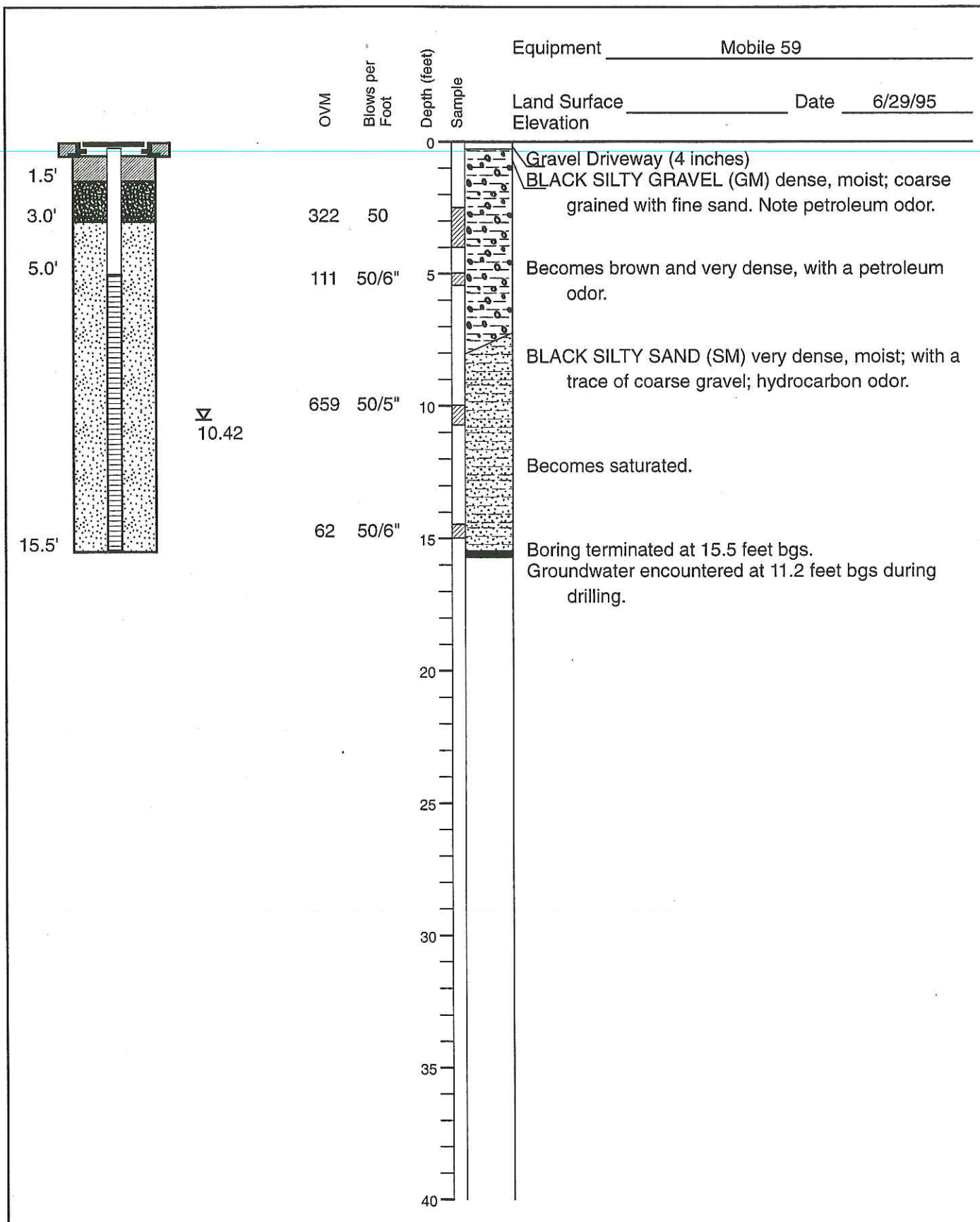
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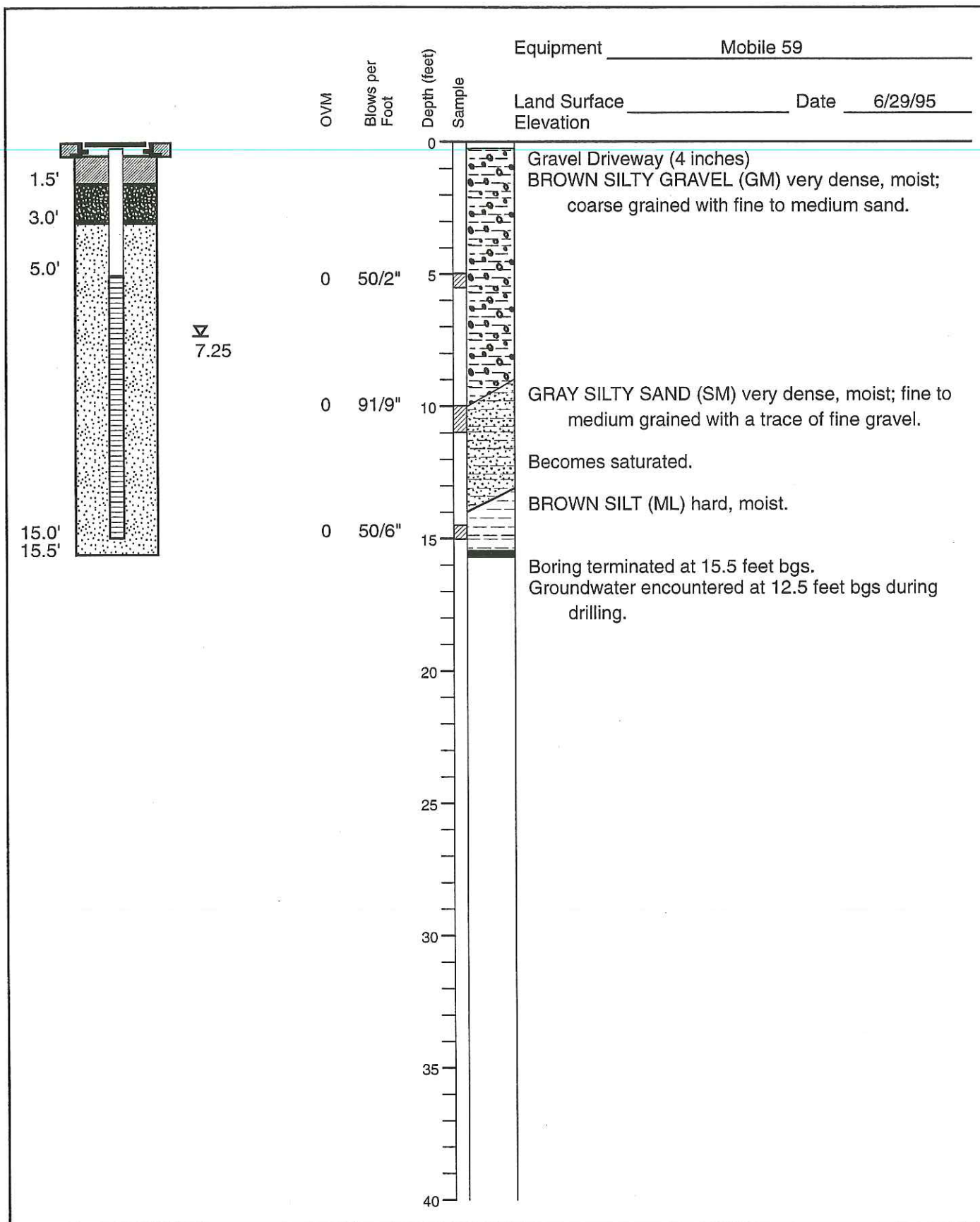
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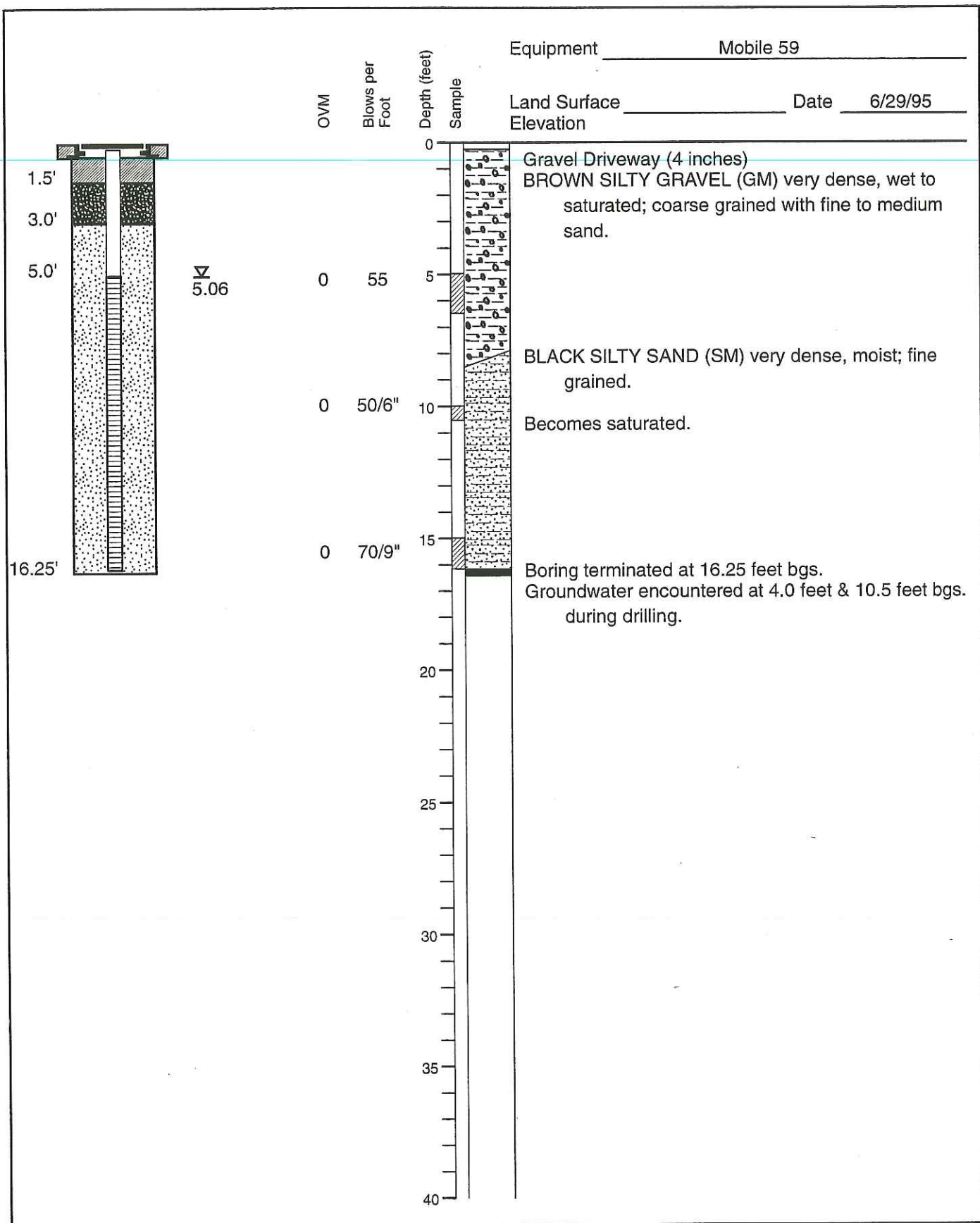
PLATE

3

DATE







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Log of Monitor Well MW4
Front Royal/Winlock School District
Winlock, Washington

PLATE

6

PROJECT NO.	DRAWN	DATE	APPROVED	REVISED	DATE
wellog.cdr	DFF	10 Jul 95	<i>MEC</i>		

15,881.001

10 Jul 95

APPROVED

REVISED

DATE



Analytical**Technologies**, Inc.

560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335

John M. Buerger, Laboratory Manager

ATI I.D. # 603096

April 11, 1996

RECEIVED

APR 16 1996

AGI Technologies

AGI Technologies
P.O. Box 3885
Bellevue WA 98009

Attention : Peter Barry

Project Number : 15881.001

Project Name : Front Royal/Winlock

Dear Mr. Barry:

On March 28, 1996, Analytical Technologies, Inc. (ATI), received four samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data are enclosed.

Sincerely,

Victoria L. Bayly
Project Manager

VLB/hal/mrj

Enclosure



ATI I.D. # 603096

SAMPLE CROSS REFERENCE SHEET

CLIENT : AGI TECHNOLOGIES
PROJECT # : 15881.001
PROJECT NAME : FRONT ROYAL/WINLOCK

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
603096-1	W-13	03/28/96	WATER
603096-2	W-14	03/28/96	WATER
603096-3	W-15	03/28/96	WATER
603096-4	W-16	03/28/96	WATER

----- TOTALS -----

MATRIX	# SAMPLES
WATER	4

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of the report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



ANALYTICAL SCHEDULE

CLIENT : AGI TECHNOLOGIES
PROJECT # : 15881.001
PROJECT NAME : FRONT ROYAL/WINLOCK

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX	GC/PID	EPA 8020	R
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-G	R

R = ATI - Renton
ANC = ATI - Anchorage
SUB = Subcontract



ATI I.D. # 603096

BETX - GASOLINE
DATA SUMMARY

CLIENT	: AGI TECHNOLOGIES	DATE SAMPLED	: N/A
PROJECT #	: 15881.001	DATE RECEIVED	: N/A
PROJECT NAME	: FRONT ROYAL/WINLOCK	DATE EXTRACTED	: N/A
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 03/29/96
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)	DILUTION FACTOR	: 1

COMPOUNDS

RESULTS

BENZENE	<0.50
ETHYLBENZENE	<0.50
TOLUENE	<0.50
TOTAL XYLENES	<0.50
FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	108	81 - 124
TRIFLUOROTOLUENE	97	50 - 150



ATI I.D. # 603096

BETX - GASOLINE
DATA SUMMARY

CLIENT : AGI TECHNOLOGIES	DATE SAMPLED : N/A
PROJECT # : 15881.001	DATE RECEIVED : N/A
PROJECT NAME : FRONT ROYAL/WINLOCK	DATE EXTRACTED : N/A
CLIENT I.D. : METHOD BLANK	DATE ANALYZED : 04/01/96
SAMPLE MATRIX : WATER	UNITS : ug/L
METHOD : WA DOE WTPH-G/8020 (BETX)	DILUTION FACTOR : 1

COMPOUNDS

RESULTS

BENZENE	<0.50
ETHYLBENZENE	<0.50
TOLUENE	<0.50
TOTAL XYLENES	<0.50
FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	100	81 - 124
TRIFLUOROTOLUENE	96	50 - 150



ATI I.D. # 603096-2

BETX - GASOLINE
DATA SUMMARY

CLIENT : AGI TECHNOLOGIES
PROJECT # : 15881.001
PROJECT NAME : FRONT ROYAL/WINLOCK
CLIENT I.D. : W-14
SAMPLE MATRIX : WATER
METHOD : WA DOE WTPH-G/8020 (BETX)

DATE SAMPLED : 03/28/96
DATE RECEIVED : 03/28/96
DATE EXTRACTED : N/A
DATE ANALYZED : 03/30/96
UNITS : ug/L
DILUTION FACTOR : 1

COMPOUNDSRESULTS

BENZENE 6.0
ETHYLBENZENE 16
TOLUENE 3.6
TOTAL XYLENES 27

FUEL HYDROCARBONS 2900
HYDROCARBON RANGE TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE 119 81 - 124
TRIFLUOROTOLUENE 91 50 - 150



ATI I.D. # 603096-3

BETX - GASOLINE
DATA SUMMARY

CLIENT	: AGI TECHNOLOGIES	DATE SAMPLED	: 03/28/96
PROJECT #	: 15881.001	DATE RECEIVED	: 03/28/96
PROJECT NAME	: FRONT ROYAL/WINLOCK	DATE EXTRACTED	: N/A
CLIENT I.D.	: W-15	DATE ANALYZED	: 03/30/96
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)	DILUTION FACTOR	: 1

COMPOUNDSRESULTS

BENZENE	<0.50
ETHYLBENZENE	<0.50
TOLUENE	<0.50
TOTAL XYLENES	<0.50
FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	90	81 - 124
TRIFLUOROTOLUENE	94	50 - 150



ATI I.D. # 603096-4

BETX - GASOLINE
DATA SUMMARY

CLIENT	: AGI TECHNOLOGIES	DATE SAMPLED	: 03/28/96
PROJECT #	: 15881.001	DATE RECEIVED	: 03/28/96
PROJECT NAME	: FRONT ROYAL/WINLOCK	DATE EXTRACTED	: N/A
CLIENT I.D.	: W-16	DATE ANALYZED	: 03/30/96
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)	DILUTION FACTOR	: 1

COMPOUNDSRESULTS

BENZENE	<0.50
ETHYLBENZENE	<0.50
TOLUENE	<0.50
TOTAL XYLENES	<0.50

FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	86	81 - 124
TRIFLUOROTOLUENE	92	50 - 150



ATT I.D. # 603096

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT	: AGI TECHNOLOGIES	SAMPLE I.D. #	: BLANK
PROJECT #	: 15881.001	DATE EXTRACTED	: N/A
PROJECT NAME	: FRONT ROYAL/WINLOCK	DATE ANALYZED	: 03/29/96
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)		

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.500	20.0	20.3	102	N/A	N/A	N/A
TOLUENE	<0.500	20.0	21.6	108	N/A	N/A	N/A
TOTAL XYLENES	<0.500	40.0	43.6	109	N/A	N/A	N/A
GASOLINE	<100	1000	997	100	N/A	N/A	N/A

CONTROL LIMITS	% REC.	RPD
BENZENE	89 - 110	10
TOLUENE	89 - 113	10
TOTAL XYLENES	89 - 111	10
GASOLINE	78 - 116	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	96	N/A	81 - 124
TRIFLUOROTOLUENE	99	N/A	50 - 150



ATI I.D. # 603096

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT : AGI TECHNOLOGIES
PROJECT # : 15881.001
PROJECT NAME : FRONT ROYAL/WINLOCK
SAMPLE MATRIX : WATER
METHOD : WA DOE WTPH-G/8020 (BETX)

SAMPLE I.D. # : BLANK
DATE EXTRACTED : N/A
DATE ANALYZED : 04/01/96
UNITS : ug/L

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.500	20.0	19.7	99	N/A	N/A	N/A
TOLUENE	<0.500	20.0	20.5	102	N/A	N/A	N/A
TOTAL XYLENES	<0.500	40.0	41.5	104	N/A	N/A	N/A
GASOLINE	<100	1000	968	97	N/A	N/A	N/A

CONTROL LIMITS	% REC.	RPD
BENZENE	84 - 106	20
TOLUENE	90 - 110	20
TOTAL XYLENES	90 - 113	20
GASOLINE	88 - 113	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	94	N/A	81 - 124
TRIFLUOROTOLUENE	96	N/A	50 - 150

ATI I.D. # 603096

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT : AGI TECHNOLOGIES	SAMPLE I.D. # : 603095-2
PROJECT # : 15881.001	DATE EXTRACTED : N/A
PROJECT NAME : FRONT ROYAL/WINLOCK	DATE ANALYZED : 04/01/96
SAMPLE MATRIX : WATER	UNITS : ug/L
METHOD : WA DOE WTPH-G/8020 (BETX)	

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
GASOLINE	<100	<100	NC	N/A	N/A	N/A	N/A	N/A	N/A
CONTROL LIMITS						% REC.			RPD
GASOLINE						N/A			20
SURROGATE RECOVERIES				SAMPLE		SAMPLE DUP.		LIMITS	
TRIFLUOROTOLUENE				92		80		50 - 150	

NC = Not calculable.

ATI I.D. # 603096

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT : AGI TECHNOLOGIES
PROJECT # : 15881.001
PROJECT NAME : FRONT ROYAL/WINLOCK
SAMPLE MATRIX : WATER
METHOD : WA DOE WTPH-G/8020 (BETX)

SAMPLE I.D. # : 603092-5
DATE EXTRACTED : N/A
DATE ANALYZED : 03/29/96
UNITS : ug/L

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
BENZENE	<0.500	N/A	N/A	20.0	20.5	102	20.2	101	1
TOLUENE	<0.500	N/A	N/A	20.0	21.3	107	21.0	105	1
TOTAL XYLENES	<0.500	N/A	N/A	40.0	42.6	107	42.3	106	1
GASOLINE	<100	<100	NC	1000	932	93	948	95	2

CONTROL LIMITS	% REC.	RPD
BENZENE	83 - 109	20
TOLUENE	90 - 110	20
TOTAL XYLENES	89 - 113	20
GASOLINE	85 - 113	20

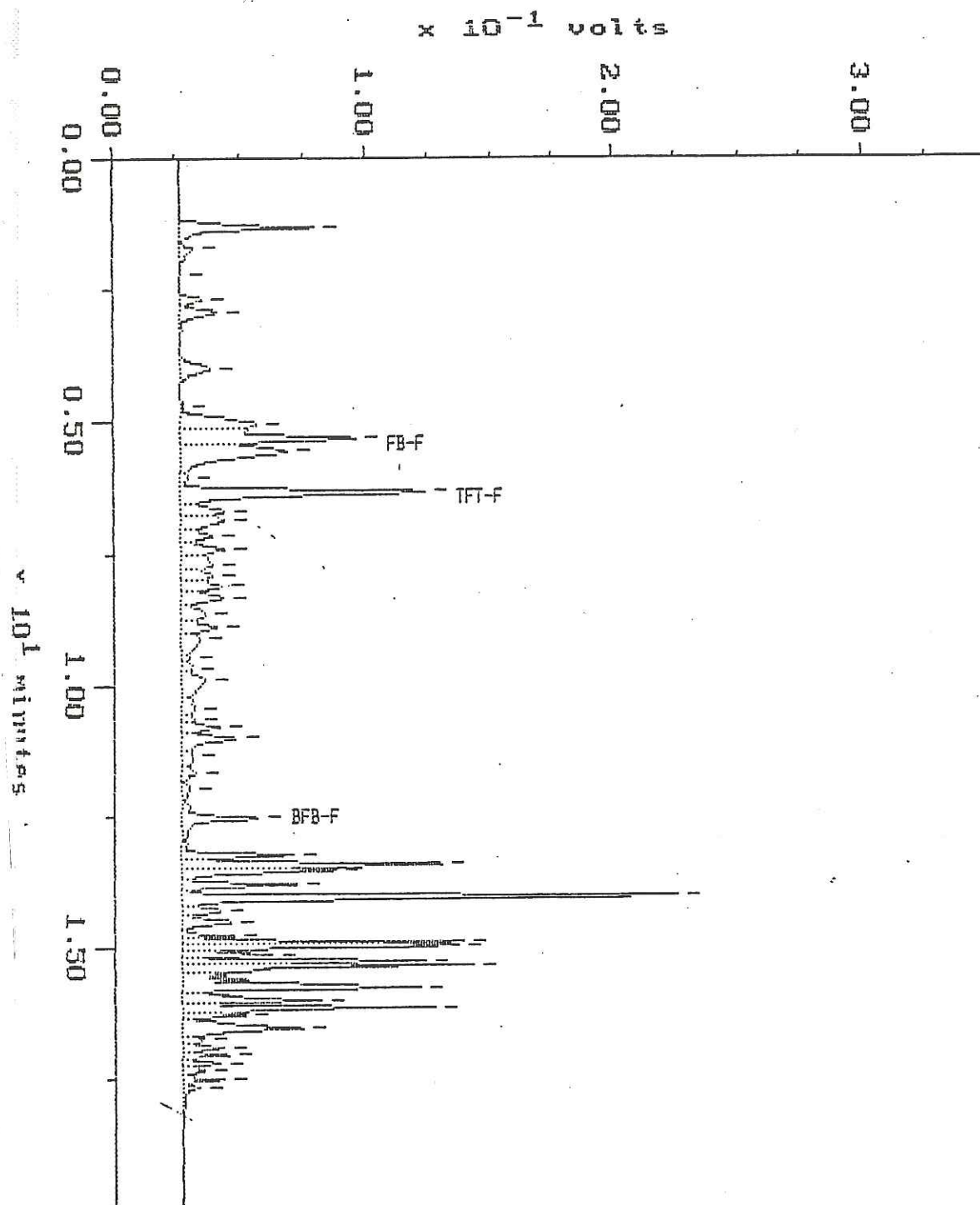
SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	97	97	81 - 124
TRIFLUOROTOLUENE	95	94	50 - 150

NC = Not calculable.

WA DOE WTPH-G

Sample: 603096-2 Channel: FID
Acquired: 30-MAR-96 1:00 Method: X:\MAXDATA\GLAD\032996GS
Comments: ATI : A COMMITMENT TO QUALITY

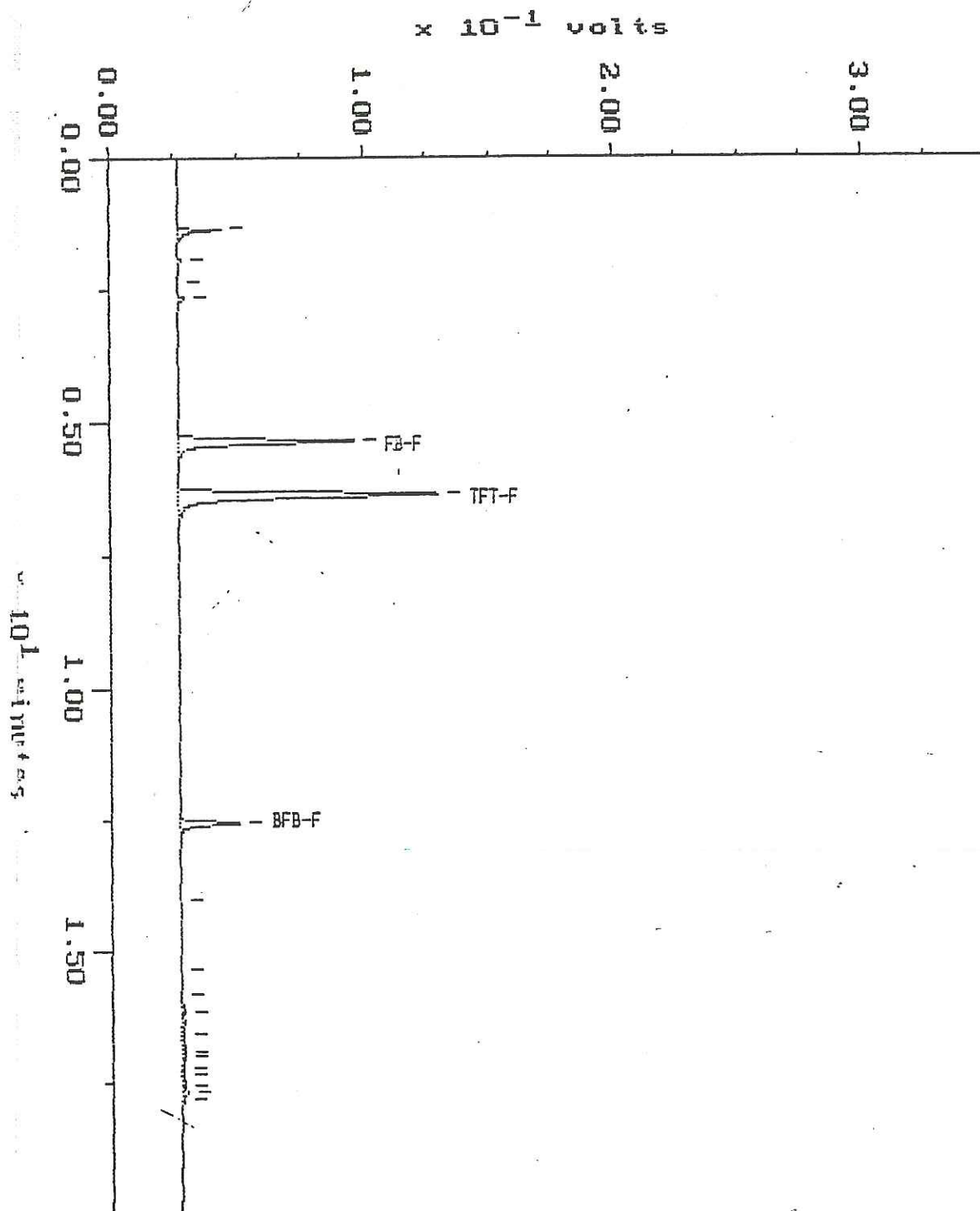
Filename: R3299G30
Operator: ATI



Blank

Sample: WRB 3-29 Channel: FID
Acquired: 29-MAR-96 9:45 Method: X:\MAXDATA\GLAD\032996GS
Comments: ATI : A COMMITMENT TO QUALITY

Filename: R3299601
Operator: ATI



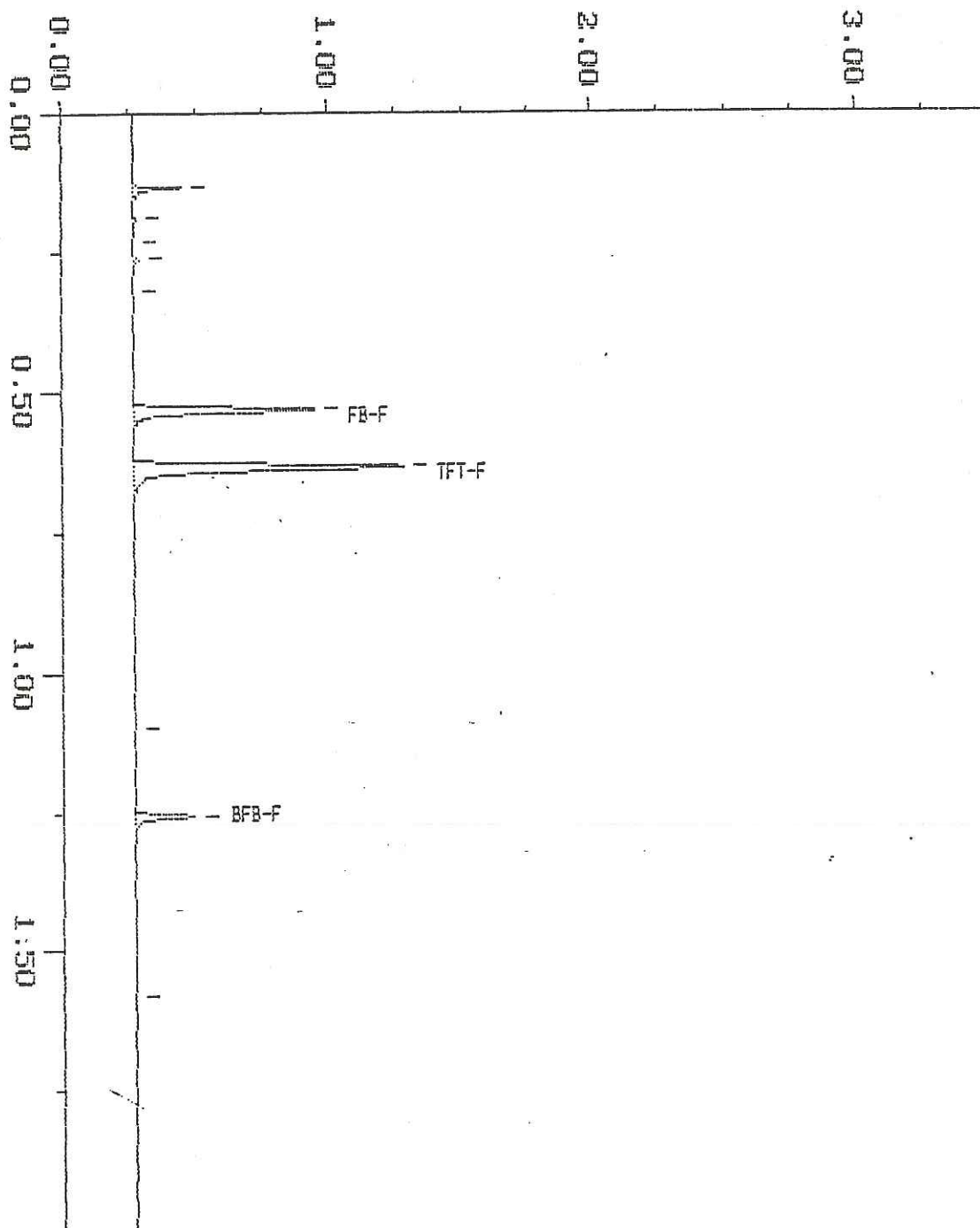
WA DOE WTPH-G

Blank

Sample: WRB 4-1 Channel: FID
Acquired: 01-APR-96 10:45 Method: X:\MAXDATA\GLAD\040196GS
Comments: ATI : A COMMITMENT TO QUALITY

Filename: R4019603
Operator: ATI

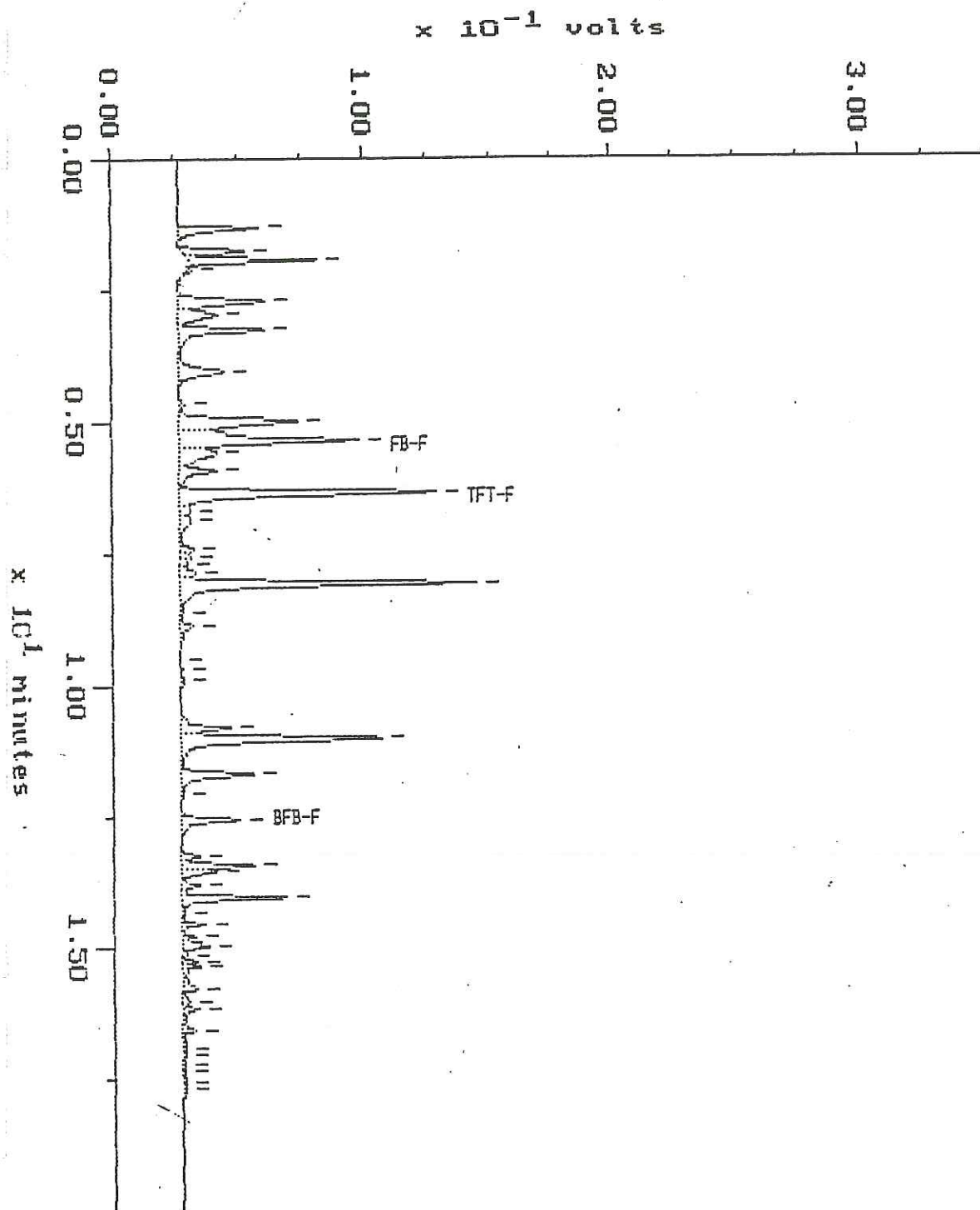
$\times 10^{-1}$ volts



CONTINUING CALIBRATION

Sample: STD-C 6 Channel: FID
Acquired: 29-MAR-96 6:58 Method: X:\MAXDATA\GLAD\032896GS
Comments: ATI : A COMMITMENT TO QUALITY

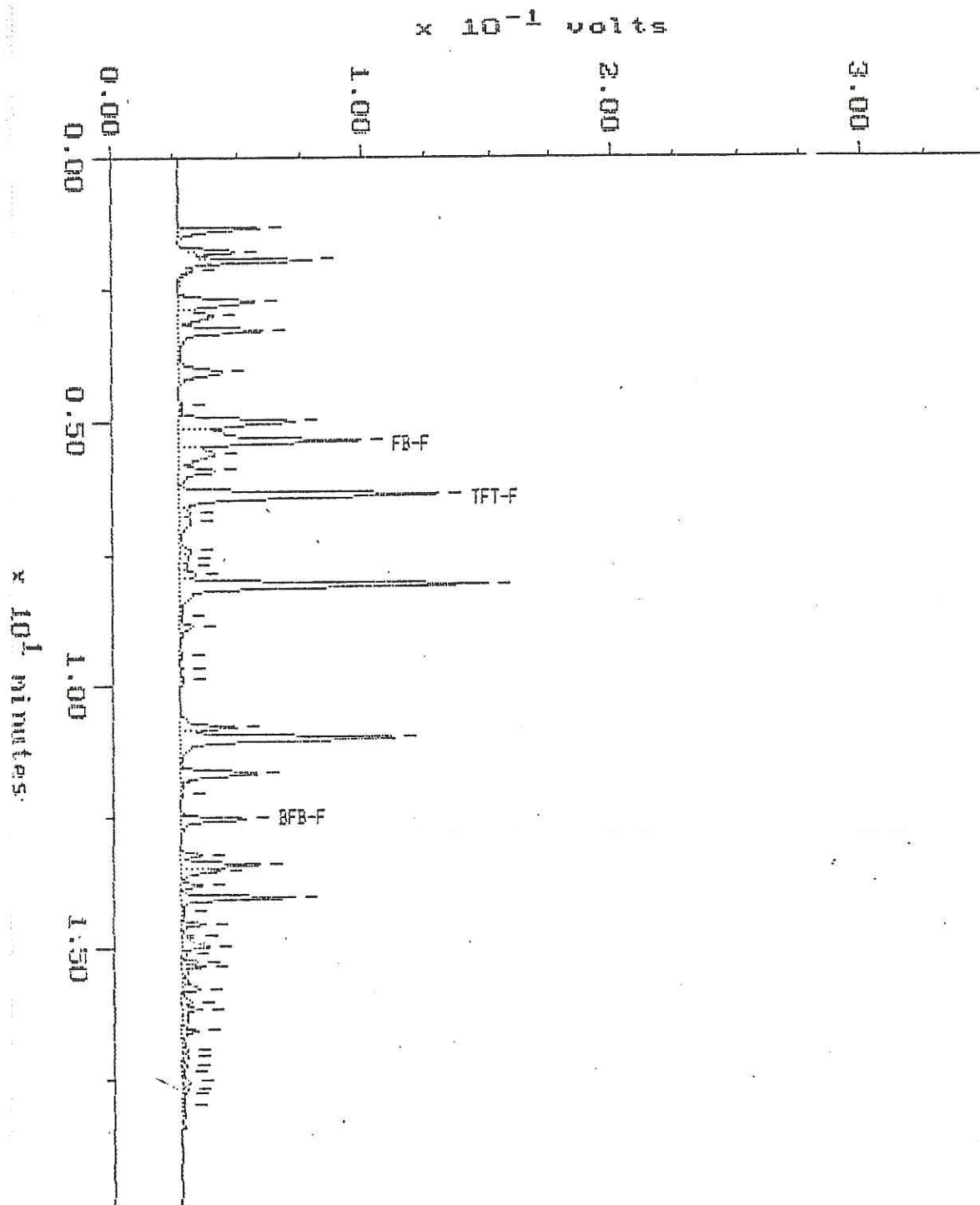
Filename: R3289643
Operator: ATI



CONTINUING CALIBRATION

Sample: STD-C G Channel: FID
Acquired: 01-APR-96 9:39 Method: X:\MAXDATA\GLAD\040196GS
Comments: ATI : A COMMITMENT TO QUALITY

Filename: R4019601
Operator: ATI



Laboratory Number: 603091

[illegible]

Special instructions:

DISTRIBUTION: White, Canary to Analytical Laboratory; Pink to AGI Project Files; Gold to AGI Disposal Files



Analytical**Technologies**, Inc.

560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335
John M. Buerger, Laboratory Manager

ATI I.D. # 509155

October 26, 1995

AGI Technologies
P.O. Box 3885
Bellevue WA 98009

RECEIVED

OCT 31 1995

AGI Technologies

Attention : Peter Barry

Project Number : 15881.001

Project Name : Front Royal/Winlock

Dear Mr. Barry:

On September 28, 1995, Analytical Technologies, Inc. (ATI), received four samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data were issued on October 11, 1995.

Enclosed is an amended report, reflecting addition of WA DOE WTPH-G/8020 (BETX) data inadvertently omitted from the report previously issued. Please replace the original report with this update. We apologize for any inconvenience this may have caused.

Sincerely,

Victoria L. Bayly
Project Manager

VLB/hal/mrj

Enclosure



SAMPLE CROSS REFERENCE SHEET

CLIENT : AGI TECHNOLOGIES
PROJECT # : 15881.001
PROJECT NAME : FRONT ROYAL/WINLOCK

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
509155-1	W-5	09/28/95	WATER
509155-2	W-6	09/28/95	WATER
509155-3	W-7	09/28/95	WATER
509155-4	W-8	09/28/95	WATER

----- TOTALS -----

MATRIX	# SAMPLES
WATER	4

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of the report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



ANALYTICAL SCHEDULE

CLIENT : AGI TECHNOLOGIES
PROJECT # : 15881.001
PROJECT NAME : FRONT ROYAL/WINLOCK

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX	GC/PID	EPA 8020	R
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-G	R

R = ATI - Renton
SD = ATI - San Diego
PHX = ATI - Phoenix
PTL = ATI - Portland
ANC = ATI - Anchorage
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract



ATI I.D. # 509155

BETX - GASOLINE
DATA SUMMARY

CLIENT	: AGI TECHNOLOGIES	DATE SAMPLED	: N/A
PROJECT #	: 15881.001	DATE RECEIVED	: N/A
PROJECT NAME	: FRONT ROYAL/WINLOCK	DATE EXTRACTED	: N/A
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 10/04/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)	DILUTION FACTOR	: 20

COMPOUNDSRESULTS

BENZENE	<0.5
ETHYLBENZENE	<0.5
TOLUENE	<0.5
TOTAL XYLENES	<0.5
FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	97	76 - 120
TRIFLUOROTOLUENE	99	50 - 150

ATI I.D. # 509155

BETX - GASOLINE
DATA SUMMARY

CLIENT	: AGI TECHNOLOGIES	DATE SAMPLED	: N/A
PROJECT #	: 15881.001	DATE RECEIVED	: N/A
PROJECT NAME	: FRONT ROYAL/WINLOCK	DATE EXTRACTED	: N/A
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 10/05/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)	DILUTION FACTOR	: 20

COMPOUNDSRESULTS

BENZENE	<0.5
ETHYLBENZENE	<0.5
TOLUENE	<0.5
TOTAL XYLENES	<0.5

FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	98	76 - 120
TRIFLUOROTOLUENE	101	50 - 150



ATI I.D. # 509155-1

BETX - GASOLINE
DATA SUMMARY

CLIENT : AGI TECHNOLOGIES
PROJECT # : 15881.001
PROJECT NAME : FRONT ROYAL/WINLOCK
CLIENT I.D. : W-5
SAMPLE MATRIX : WATER
METHOD : WA DOE WTPH-G/8020 (BETX)

DATE SAMPLED : 09/28/95
DATE RECEIVED : 09/28/95
DATE EXTRACTED : N/A
DATE ANALYZED : 10/04/95
UNITS : ug/L
DILUTION FACTOR : 1

COMPOUNDSRESULTS

BENZENE	92
ETHYLBENZENE	0.84
TOLUENE	<0.5
TOTAL XYLENES	0.52

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<100
TOLUENE TO DODECANE
GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	94	76 - 120
TRIFLUOROTOLUENE	97	50 - 150



ATI I.D. # 509155-2

BETX - GASOLINE
DATA SUMMARY

CLIENT	: AGI TECHNOLOGIES	DATE SAMPLED	: 09/28/95
PROJECT #	: 15881.001	DATE RECEIVED	: 09/28/95
PROJECT NAME	: FRONT ROYAL/WINLOCK	DATE EXTRACTED	: N/A
CLIENT I.D.	: W-6	DATE ANALYZED	: 10/05/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)	DILUTION FACTOR	: 1

COMPOUNDSRESULTS

BENZENE	280
ETHYLBENZENE	270
TOLUENE	390
TOTAL XYLENES	940

FUEL HYDROCARBONS

8800

HYDROCARBON RANGE

TOLUENE TO DODECANE

HYDROCARBON QUANTITATION USING

GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	100	76 - 120
TRIFLUOROTOLUENE	98	50 - 150

ATI I.D. # 509155-3

BETX - GASOLINE
DATA SUMMARY

CLIENT : AGI TECHNOLOGIES	DATE SAMPLED : 09/28/95
PROJECT # : 15881.001	DATE RECEIVED : 09/28/95
PROJECT NAME : FRONT ROYAL/WINLOCK	DATE EXTRACTED : N/A
CLIENT I.D. : W-7	DATE ANALYZED : 10/04/95
SAMPLE MATRIX : WATER	UNITS : ug/L
METHOD : WA DOE WTPH-G/8020 (BETX)	DILUTION FACTOR : 1

COMPOUNDS

RESULTS

BENZENE	3.5
ETHYLBENZENE	<0.5
TOLUENE	<0.5
TOTAL XYLENES	<0.5
FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	97	76 - 120
TRIFLUOROTOLUENE	97	50 - 150

ATI I.D. # 509155-4

BETX - GASOLINE
DATA SUMMARY

CLIENT	: AGI TECHNOLOGIES	DATE SAMPLED	: 09/28/95
PROJECT #	: 15881.001	DATE RECEIVED	: 09/28/95
PROJECT NAME	: FRONT ROYAL/WINLOCK	DATE EXTRACTED	: N/A
CLIENT I.D.	: W-8	DATE ANALYZED	: 10/05/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)	DILUTION FACTOR	: 1

COMPOUNDS

RESULTS

BENZENE	<0.5
ETHYLBENZENE	<0.5
TOLUENE	<0.5
TOTAL XYLENES	<0.5

FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	95	76 - 120
TRIFLUOROTOLUENE	93	50 - 150

ATI I.D. # 509155

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT : AGI TECHNOLOGIES
PROJECT # : 15881.001
PROJECT NAME : FRONT ROYAL/WINLOCK
SAMPLE MATRIX : WATER
METHOD : WA DOE WTPH-G/8020 (BETX)

SAMPLE I.D. # : BLANK
DATE EXTRACTED : N/A
DATE ANALYZED : 10/04/95
UNITS : ug/L

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.500	20.0	19.8	99	N/A	N/A	N/A
TOLUENE	<0.500	20.0	19.9	100	N/A	N/A	N/A
TOTAL XYLENES	<0.500	40.0	40.4	101	N/A	N/A	N/A
GASOLINE	<100	1000	987	99	N/A	N/A	N/A

CONTROL LIMITS	% REC.	RPD
BENZENE	89 - 110	10
TOLUENE	89 - 113	10
TOTAL XYLENES	89 - 111	10
GASOLINE	78 - 116	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	95	N/A	76 - 120
TRIFLUOROTOLUENE	102	N/A	50 - 150



ATI I.D. # 509155

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT : AGI TECHNOLOGIES
PROJECT # : 15881.001
PROJECT NAME : FRONT ROYAL/WINLOCK
SAMPLE MATRIX : WATER
METHOD : WA DOE WTPH-G/8020 (BETX)

SAMPLE I.D. # : BLANK
DATE EXTRACTED : N/A
DATE ANALYZED : 10/05/95
UNITS : ug/L

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.500	20.0	19.4	97	N/A	N/A	N/A
TOLUENE	<0.500	20.0	20.3	102	N/A	N/A	N/A
TOTAL XYLENES	<0.500	40.0	40.9	102	N/A	N/A	N/A
GASOLINE	<100	1000	1030	103	N/A	N/A	N/A

CONTROL LIMITS	% REC.	RPD
BENZENE	89 - 110	10
TOLUENE	89 - 113	10
TOTAL XYLENES	89 - 111	10
GASOLINE	78 - 116	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	96	N/A	76 - 120
TRIFLUOROTOLUENE	100	N/A	50 - 150

ATI I.D. # 509155

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT : AGI TECHNOLOGIES
PROJECT # : 15881.001
PROJECT NAME : FRONT ROYAL/WINLOCK
SAMPLE MATRIX : WATER
METHOD : WA DOE WTPH-G/8020 (BETX)

SAMPLE I.D. # : 509141-4
DATE EXTRACTED : N/A
DATE ANALYZED : 10/04/95
UNITS : ug/L

COMPOUND	SAMPLE RESULT	SAMPLE DUP.		SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED		DUP. % REC.	RPD
		RESULT	RPD				RESULT	%		
GASOLINE	<100	<100	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CONTROL LIMITS						% REC.				RPD
GASOLINE						N/A				20
SURROGATE RECOVERIES				SAMPLE			SAMPLE DUP.		LIMITS	
TRIFLUOROTOLUENE				94			101		50 - 150	

NC = Not calculable.

ATI I.D. # 509155

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT : AGI TECHNOLOGIES
PROJECT # : 15881.001
PROJECT NAME : FRONT ROYAL/WINLOCK
SAMPLE MATRIX : WATER
METHOD : WA DOE WTPH-G/8020 (BETX)

SAMPLE I.D. # : 509143-1
DATE EXTRACTED : N/A
DATE ANALYZED : 10/04/95
UNITS : ug/L

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
BENZENE	19.6	N/A	N/A	20.0	39.5	100	39.2	98	1
TOLUENE	15.6	N/A	N/A	20.0	35.5	100	35.2	98	1
TOTAL XYLENES	22.4	N/A	N/A	40.0	62.3	100	61.9	99	1
GASOLINE	201	193	3	1000	1130	93	1110	91	2

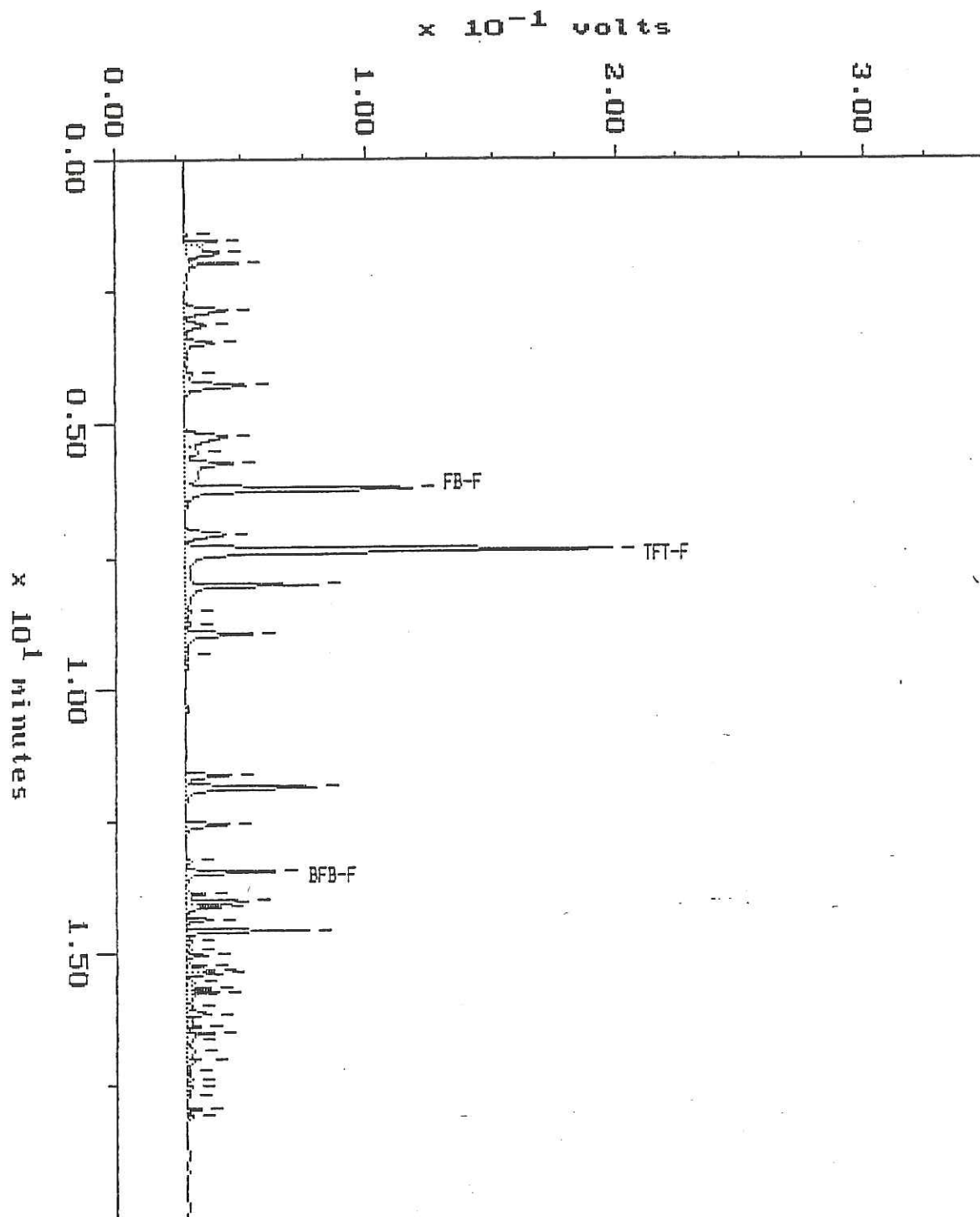
CONTROL LIMITS	% REC.	RPD
BENZENE	86 - 113	10
TOLUENE	87 - 114	10
TOTAL XYLENES	85 - 113	10
GASOLINE	80 - 113	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	96	96	76 - 120
TRIFLUOROTOLUENE	99	98	50 - 150

WA DOE WTPH-G

Sample: 509155-2 DIL Channel: FID
Acquired: 05-OCT-95 12:56 Method: X:\MAXDATA\PICARD\100595PC
Dilution: 1 : 20.000
Comments: ATI FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY.

Filename: RA059P09
Operator: ATI

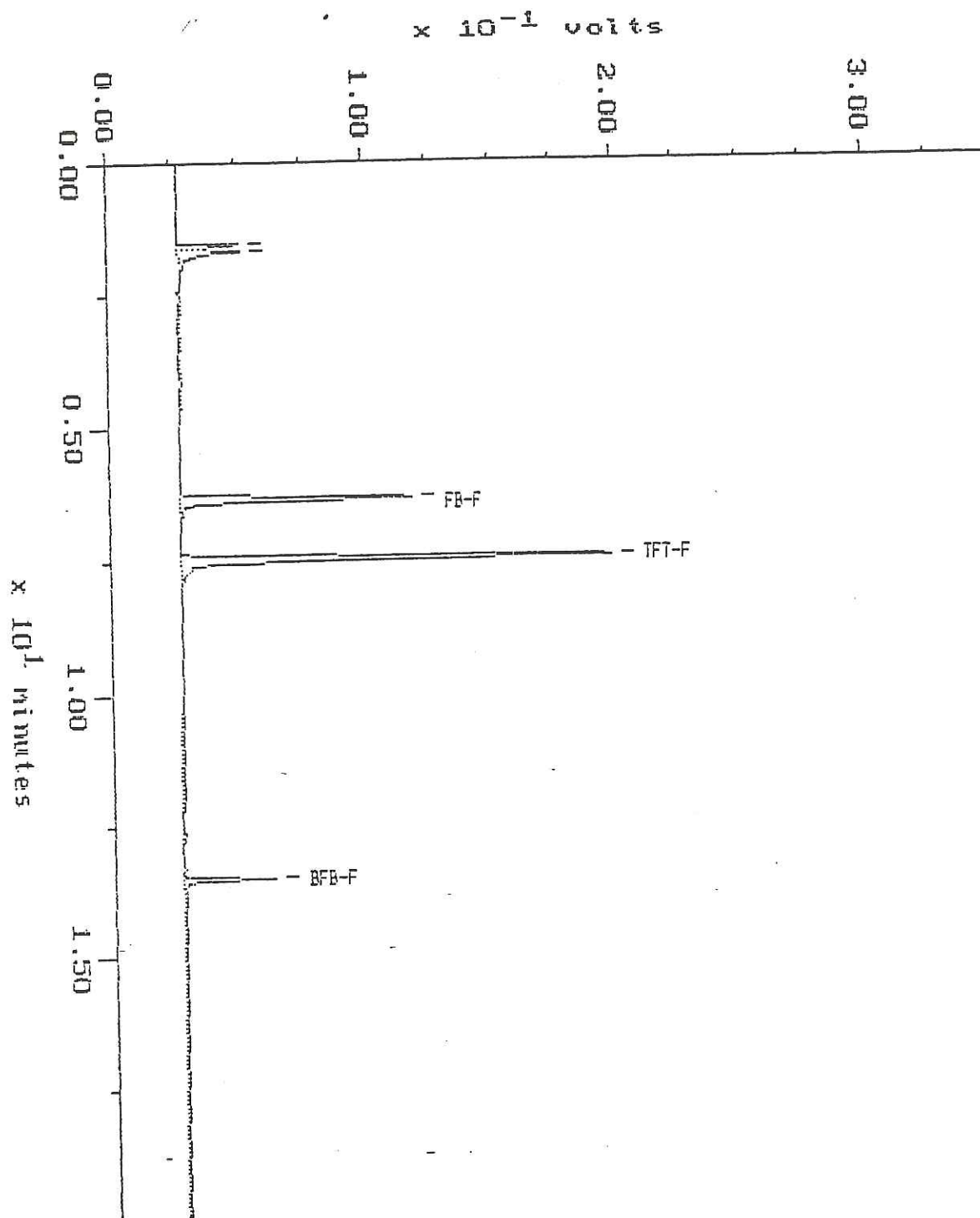


Blank

WA DOJ WTPH-G

Sample: WRB 10-4 Channel: FID
Acquired: 04-OCT-95 10:14 Method: X:\MAXDATA\PICARD\100495PC
Comments: ATI FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY.

Filename: RA049F03
Operator: ATI

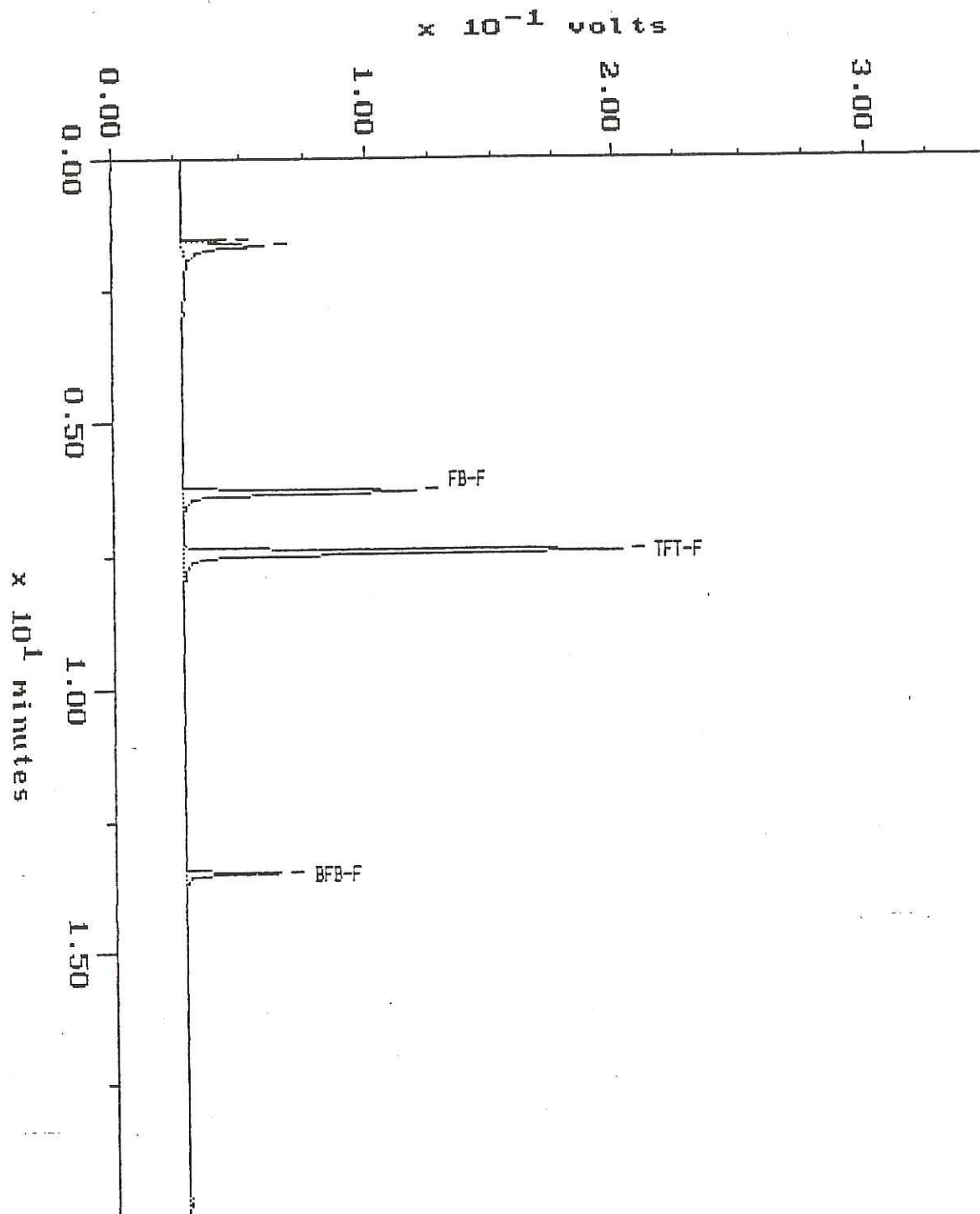


Blank

WA DOB WTPH-G

Sample: WRB 10-5 Channel: FID
Acquired: 05-OCT-95 8:48 Method: X:\MAXDATA\PICARD\100595PC
Comments: ATI FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY.

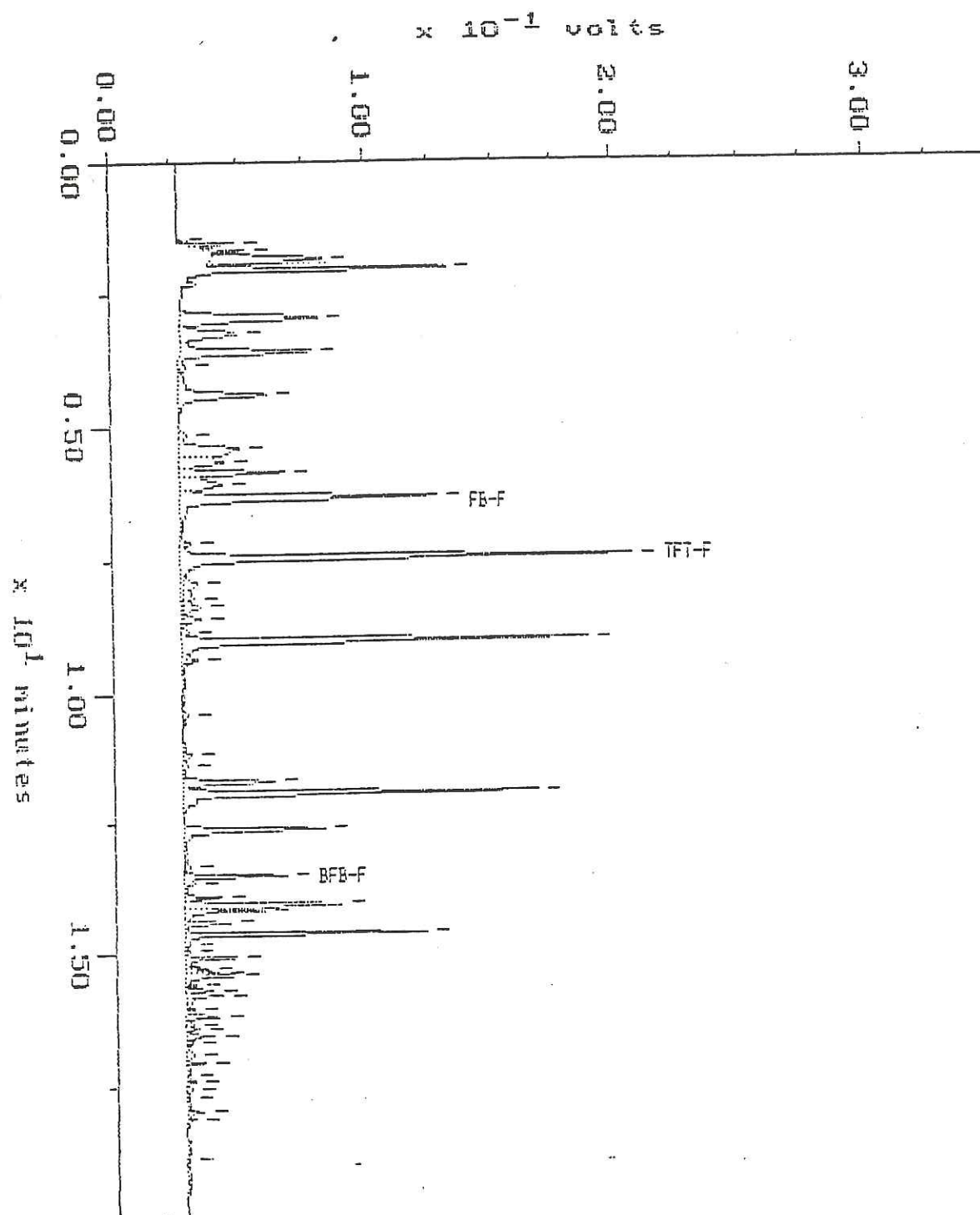
Filename: RA059P01
Operator: ATI



CONTINUING CALIBRATION

Sample: STD-C 6 Channel: FID
Acquired: 04-OCT-95 9:09 Method: X:\MAXDATA\PICARD\100495PC
Comments: ATI FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY.

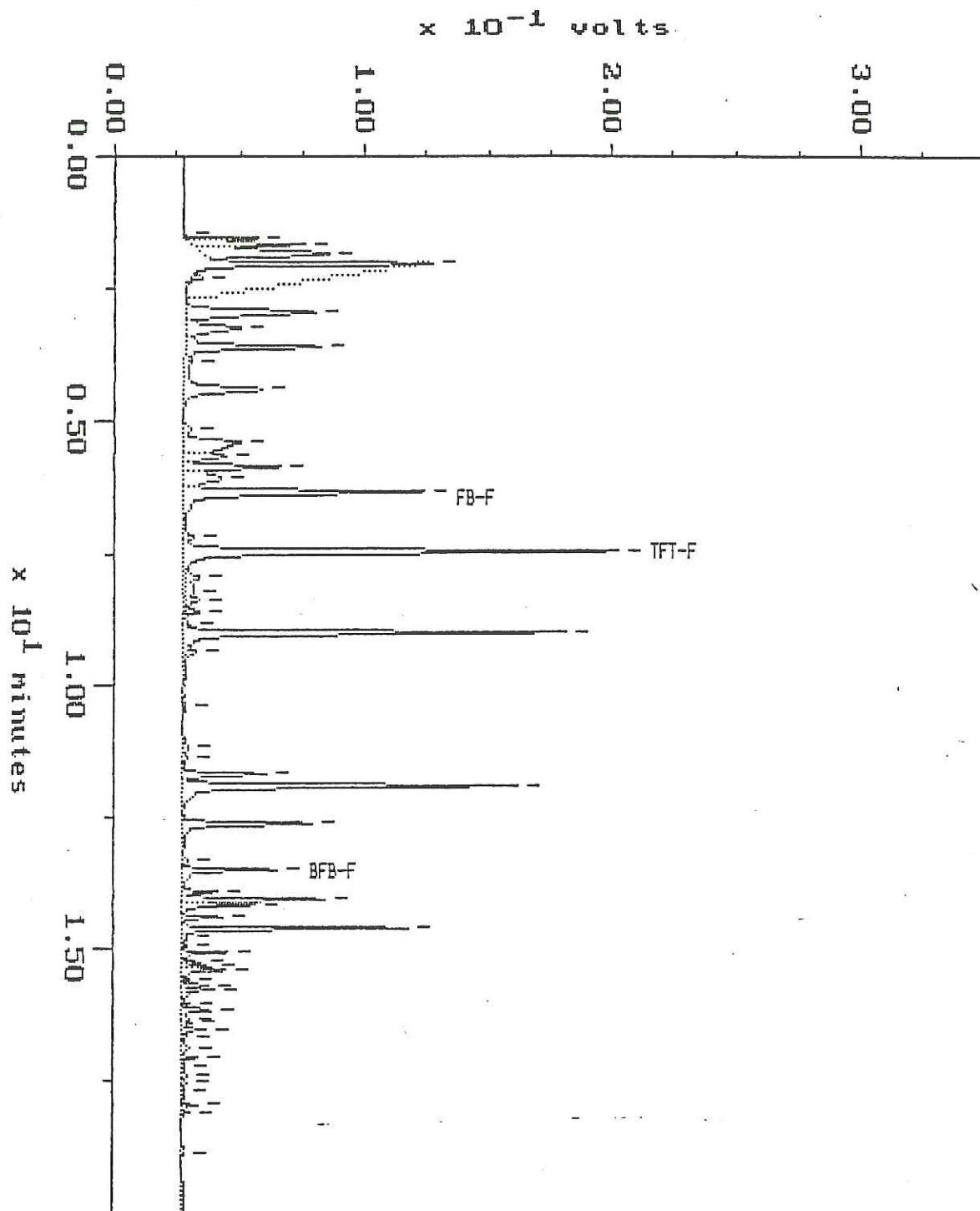
Filename: RA049P01
Operator: ATI



CONTINUING CALIBRATION

Sample: STD-C 6 Channel: FID
Acquired: 05-OCT-95 7:03 Method: X:\MAXDATA\PICARD\100495PC
Comments: ATI FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY.

Filename: RA049P43
Operator: ATI



ANALYSIS REQUEST

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH DATA

12 BOTTLES UNTIL NOTIFIED

Rev. 4/94



Analytical**Technologies**, Inc.

560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335

John M. Buerger, Laboratory Manager

ATI I.D. # 512137

January 10, 1996

AGI Technologies
P.O. Box 3885
Bellevue WA 98009

Attention : Peter Barry

Project Number : 15881.001

Project Name : Front Royal/Winlock

Dear Mr. Barry:

On December 28, 1995, Analytical Technologies, Inc. (ATI), received four samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data are enclosed.

Sincerely,

Elaine M. Walker

for Victoria L. Bayly
Project Manager

VLB/hal/elf

Enclosure



SAMPLE CROSS REFERENCE SHEET

CLIENT : AGI TECHNOLOGIES
PROJECT # : 15881.001
PROJECT NAME : FRONT ROYAL/WINLOCK

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
512137-1	W-9	12/28/95	WATER
512137-2	W-10	12/28/95	WATER
512137-3	W-11	12/28/95	WATER
512137-4	W-12	12/28/95	WATER

----- TOTALS -----

MATRIX	# SAMPLES
WATER	4

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of the report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



ANALYTICAL SCHEDULE

CLIENT : AGI TECHNOLOGIES
PROJECT # : 15881.001
PROJECT NAME : FRONT ROYAL/WINLOCK

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX	GC/PID	EPA 8020	R
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-G	R

R = ATI - Renton
SD = ATI - San Diego
PHX = ATI - Phoenix
PTL = ATI - Portland
ANC = ATI - Anchorage
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

ATI I.D. # 512137

BETX - GASOLINE
DATA SUMMARY

CLIENT	: AGI TECHNOLOGIES	DATE SAMPLED	: N/A
PROJECT #	: 15881.001	DATE RECEIVED	: N/A
PROJECT NAME	: FRONT ROYAL/WINLOCK	DATE EXTRACTED	: N/A
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 01/02/96
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)	DILUTION FACTOR	: 1

COMPOUNDSRESULTS

BENZENE	<0.50
ETHYLBENZENE	<0.50
TOLUENE	<0.50
TOTAL XYLENES	<0.50
FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	88	76 - 120
TRIFLUOROTOLUENE	102	50 - 150



ATI I.D. # 512137

BETX - GASOLINE
DATA SUMMARY

CLIENT	: AGI TECHNOLOGIES	DATE SAMPLED	: N/A
PROJECT #	: 15881.001	DATE RECEIVED	: N/A
PROJECT NAME	: FRONT ROYAL/WINLOCK	DATE EXTRACTED	: N/A
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 01/03/96
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)	DILUTION FACTOR	: 1

COMPOUNDSRESULTS

BENZENE	<0.50
ETHYLBENZENE	<0.50
TOLUENE	<0.50
TOTAL XYLENES	<0.50

FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	87	76 - 120
TRIFLUOROTOLUENE	98	50 - 150



ATI I.D. # 512137-1

BETX - GASOLINE
DATA SUMMARY

CLIENT : AGI TECHNOLOGIES
PROJECT # : 15881.001
PROJECT NAME : FRONT ROYAL/WINLOCK
CLIENT I.D. : W-9
SAMPLE MATRIX : WATER
METHOD : WA DOE WTPH-G/8020 (BETX)

DATE SAMPLED : 12/28/95
DATE RECEIVED : 12/28/95
DATE EXTRACTED : N/A
DATE ANALYZED : 01/03/96
UNITS : ug/L
DILUTION FACTOR : 1

COMPOUNDSRESULTS

BENZENE 30
ETHYLBENZENE 0.60
TOLUENE 0.59
TOTAL XYLENES 1.3

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<100
TOLUENE TO DODECANE
GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE
TRIFLUOROTOLUENE

87
97

76 - 120
50 - 150



ATI I.D. # 512137-2

BETX - GASOLINE
DATA SUMMARY

CLIENT	: AGI TECHNOLOGIES	DATE SAMPLED	: 12/28/95
PROJECT #	: 15881.001	DATE RECEIVED	: 12/28/95
PROJECT NAME	: FRONT ROYAL/WINLOCK	DATE EXTRACTED	: N/A
CLIENT I.D.	: W-10	DATE ANALYZED	: 01/03/96
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)	DILUTION FACTOR	: 1

COMPOUNDSRESULTS

BENZENE	6.5
ETHYLBENZENE	17
TOLUENE	2.3
TOTAL XYLENES	34
FUEL HYDROCARBONS	2600
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	108	76 - 120
TRIFLUOROTOLUENE	103	50 - 150

ATI I.D. # 512137-3

BETX - GASOLINE
DATA SUMMARY

CLIENT : AGI TECHNOLOGIES
PROJECT # : 15881.001
PROJECT NAME : FRONT ROYAL/WINLOCK
CLIENT I.D. : W-11
SAMPLE MATRIX : WATER
METHOD : WA DOE WTPH-G/8020 (BETX)

DATE SAMPLED : 12/28/95
DATE RECEIVED : 12/28/95
DATE EXTRACTED : N/A
DATE ANALYZED : 01/03/96
UNITS : ug/L
DILUTION FACTOR : 1

COMPOUNDSRESULTS

BENZENE 0.55
ETHYLBENZENE <0.50
TOLUENE <0.50
TOTAL XYLENES <0.50

FUEL HYDROCARBONS <100
HYDROCARBON RANGE TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	92	76 - 120
TRIFLUOROTOLUENE	97	50 - 150



ATI I.D. # 512137-4

BETX - GASOLINE
DATA SUMMARY

CLIENT : AGI TECHNOLOGIES
PROJECT # : 15881.001
PROJECT NAME : FRONT ROYAL/WINLOCK
CLIENT I.D. : W-12
SAMPLE MATRIX : WATER
METHOD : WA DOE WTPH-G/8020 (BETX)

DATE SAMPLED : 12/28/95
DATE RECEIVED : 12/28/95
DATE EXTRACTED : N/A
DATE ANALYZED : 01/03/96
UNITS : ug/L
DILUTION FACTOR : 1

COMPOUNDSRESULTS

BENZENE <0.50
ETHYLBENZENE <0.50
TOLUENE <0.50
TOTAL XYLENES <0.50

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<100
TOLUENE TO DODECANE
GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	86	76 - 120
TRIFLUOROTOLUENE	97	50 - 150

ATI I.D. # 512137

**BETX - GASOLINE
QUALITY CONTROL DATA**

CLIENT : AGI TECHNOLOGIES
 PROJECT # : 15881.001
 PROJECT NAME : FRONT ROYAL/WINLOCK
 SAMPLE MATRIX : WATER
 METHOD : WA DOE WTPH-G/8020 (BETX)

SAMPLE I.D. # : BLANK
 DATE EXTRACTED : N/A
 DATE ANALYZED : 01/02/96
 UNITS : ug/L

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.500	20.0	18.6	93	N/A	N/A	N/A
TOLUENE	<0.500	20.0	19.6	98	N/A	N/A	N/A
TOTAL XYLENES	<0.500	40.0	39.6	99	N/A	N/A	N/A
GASOLINE	<100	1000	1020	102	N/A	N/A	N/A

CONTROL LIMITS

	% REC.	RPD
BENZENE	89 - 110	10
TOLUENE	89 - 113	10
TOTAL XYLENES	89 - 111	10
GASOLINE	78 - 116	20

SURROGATE RECOVERIES

	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	90	N/A	76 - 120
TRIFLUOROTOLUENE	101	N/A	50 - 150

ATI I.D. # 512137

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT : AGI TECHNOLOGIES
PROJECT # : 15881.001
PROJECT NAME : FRONT ROYAL/WINLOCK
SAMPLE MATRIX : WATER
METHOD : WA DOE WTPH-G/8020 (BETX)

SAMPLE I.D. # : BLANK
DATE EXTRACTED : N/A
DATE ANALYZED : 01/03/96
UNITS : ug/L

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.500	20.0	19.6	98	N/A	N/A	N/A
TOLUENE	<0.500	20.0	20.5	102	N/A	N/A	N/A
TOTAL XYLENES	<0.500	40.0	40.8	102	N/A	N/A	N/A
GASOLINE	<100	1000	1050	105	N/A	N/A	N/A

CONTROL LIMITS	% REC.	RPD
BENZENE	89 - 110	10
TOLUENE	89 - 113	10
TOTAL XYLENES	89 - 111	10
GASOLINE	78 - 116	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	89	N/A	76 - 120
TRIFLUOROTOLUENE	101	N/A	50 - 150



ATI I.D. # 512137

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT	: AGI TECHNOLOGIES	SAMPLE I.D. #	: 512137-3
PROJECT #	: 15881.001	DATE EXTRACTED	: N/A
PROJECT NAME	: FRONT ROYAL/WINLOCK	DATE ANALYZED	: 01/03/96
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
GASOLINE	<100	<100	NC	N/A	N/A	N/A	N/A	N/A	N/A
CONTROL LIMITS						% REC.			RPD
GASOLINE						N/A			20
SURROGATE RECOVERIES				SAMPLE		SAMPLE DUP.		LIMITS	
TRIFLUOROTOLUENE				97		97		50 - 150	

NC = Not calculable.

ATI I.D. # 512137

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT : AGI TECHNOLOGIES
PROJECT # : 15881.001
PROJECT NAME : FRONT ROYAL/WINLOCK
SAMPLE MATRIX : WATER
METHOD : WA DOE WTPH-G/8020 (BETX)

SAMPLE I.D. # : 512136-4
DATE EXTRACTED : N/A
DATE ANALYZED : 01/03/96
UNITS : ug/L

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
BENZENE	<0.500	N/A	N/A	20.0	19.0	95	19.4	97	2
TOLUENE	<0.500	N/A	N/A	20.0	20.6	103	20.7	103	0
TOTAL XYLENES	<0.500	N/A	N/A	40.0	42.2	106	42.3	106	0
GASOLINE	<100	<100	NC	1000	1070	107	1000	100	7

CONTROL LIMITS

	% REC.	RPD
BENZENE	86 - 113	10
TOLUENE	87 - 114	10
TOTAL XYLENES	85 - 113	10
GASOLINE	80 - 113	20

SURROGATE RECOVERIES

	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	96	95	76 - 120
TRIFLUOROTOLUENE	102	99	50 - 150

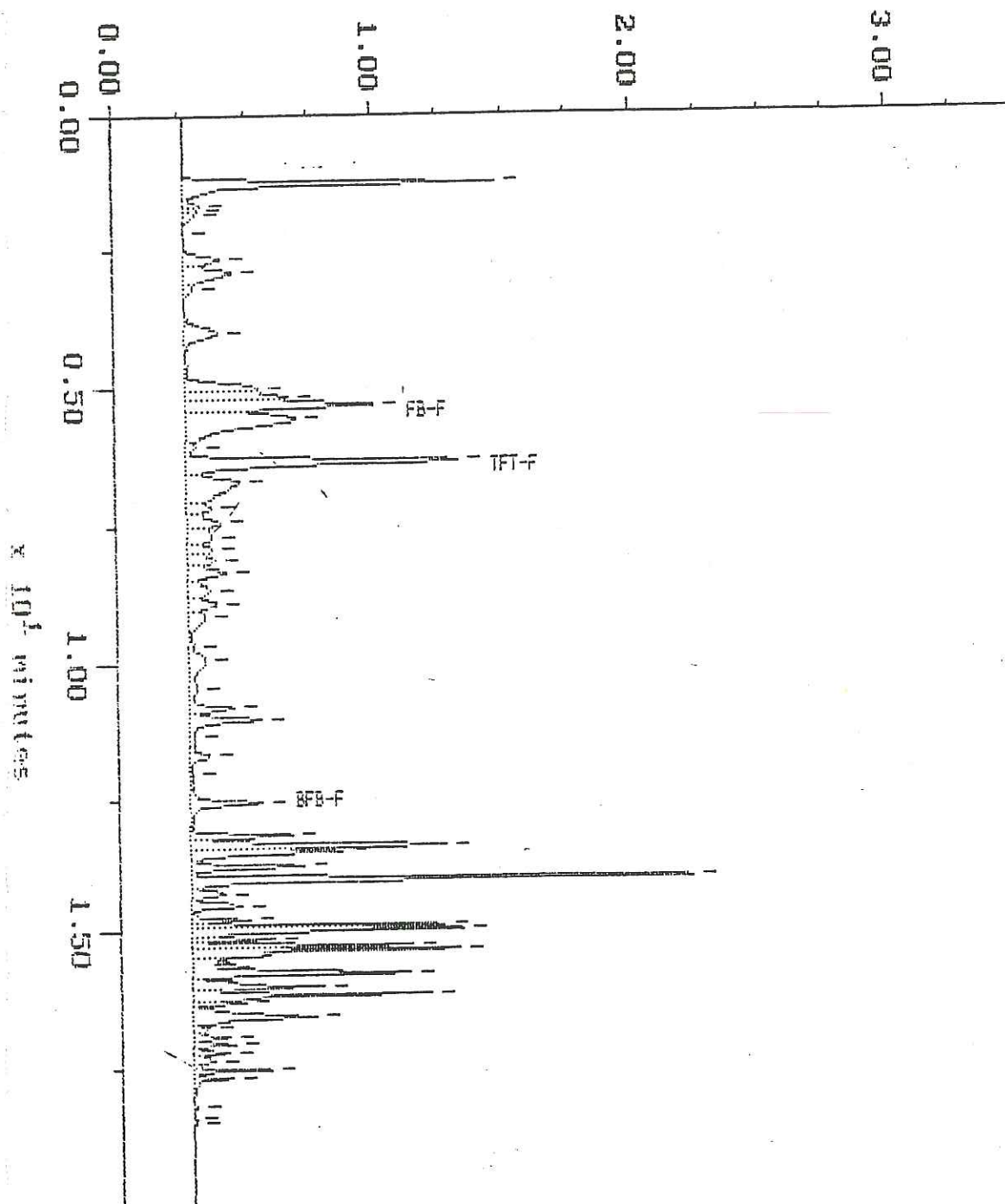
NC = Not calculable.

WA DOE WTPH-G

Sample: 512137-2 Channel: FID
Acquired: 03-JAN-96 3:48 Method: X:\MAXDATA\GLAD\01029666
Comments: ATI : A COMMITMENT TO QUALITY

Filename: R1029638
Operator: ATI

$\times 10^{-1}$ volts

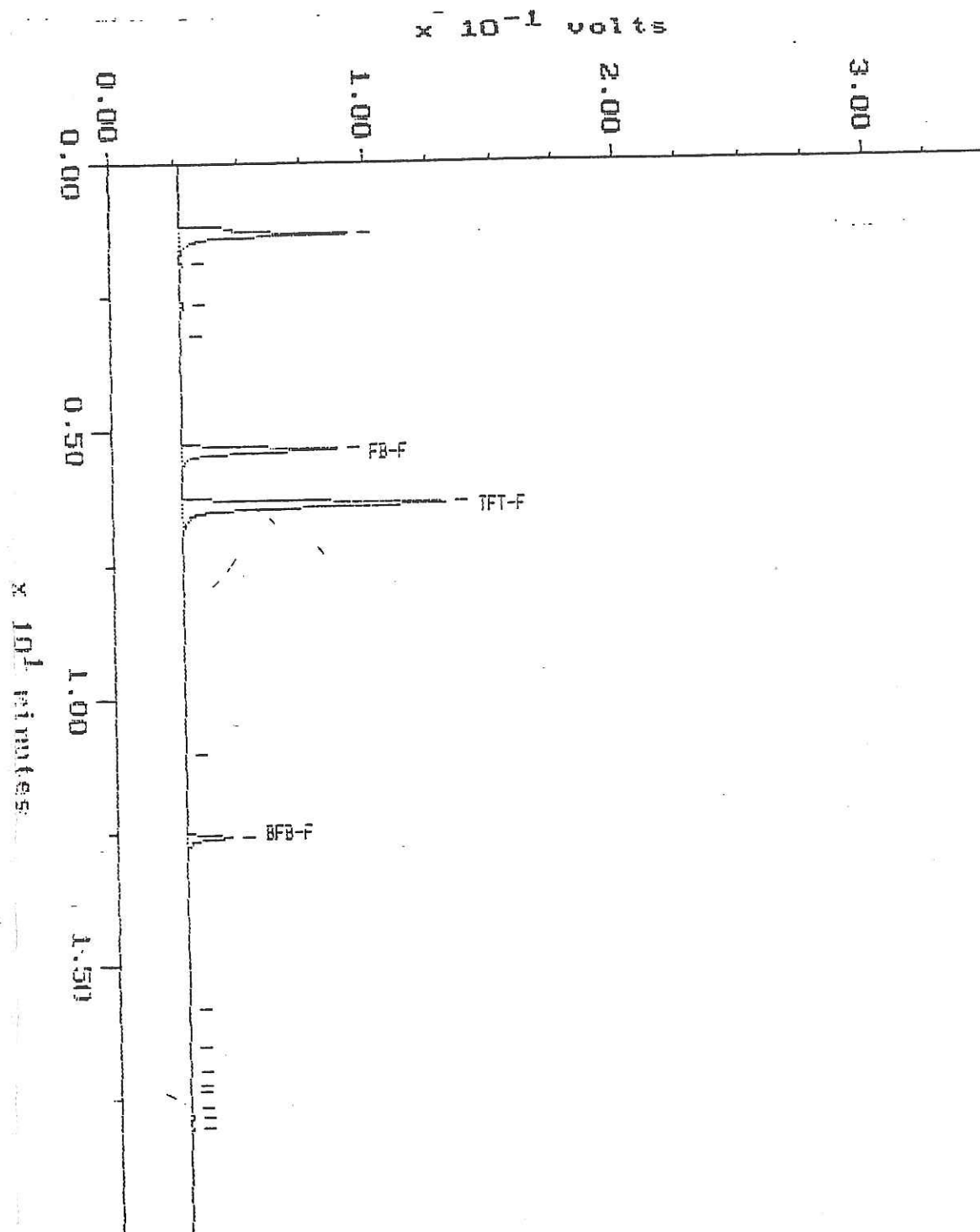


WA DOE WTPH-G

Blank

Sample: WRB 01-02 Channel: FID
Acquired: 02-JAN-96 10:11 Method: X:\MAXDATA\GLAD\010296GS
Comments: ATI : A COMMITMENT TO QUALITY

Filename: R1029603
Operator: ATI



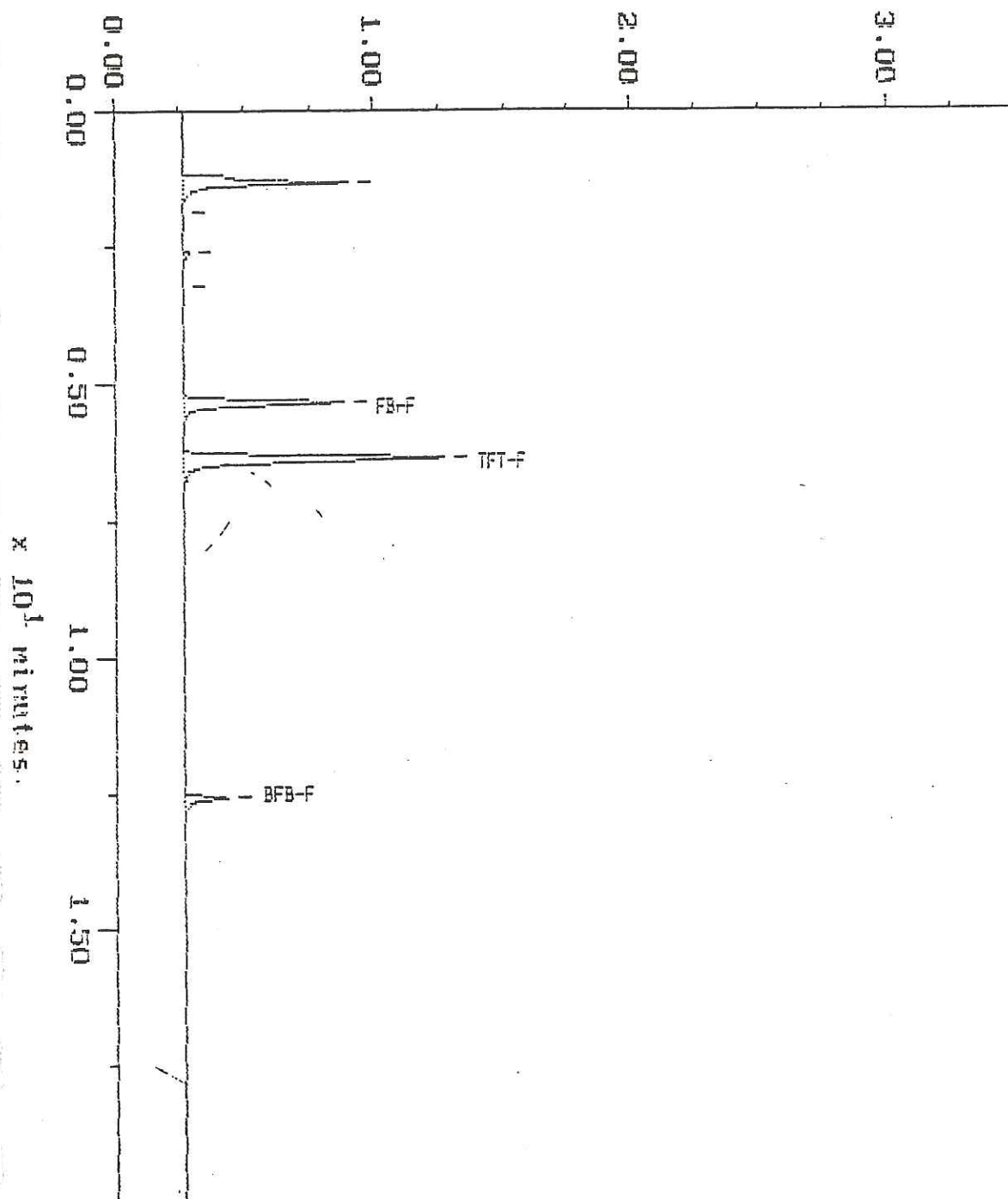
WA DOE WTPH-G

Blank

Sample: WRB 01-03 Channel: FID
Acquired: 03-JAN-96 9:11 Method: X:\MAXDATA\GLAD\010396GS
Comments: ATI : A COMMITMENT TO QUALITY

Filename: R1039601
Operator: ATI

$\times 10^{-1}$ volts

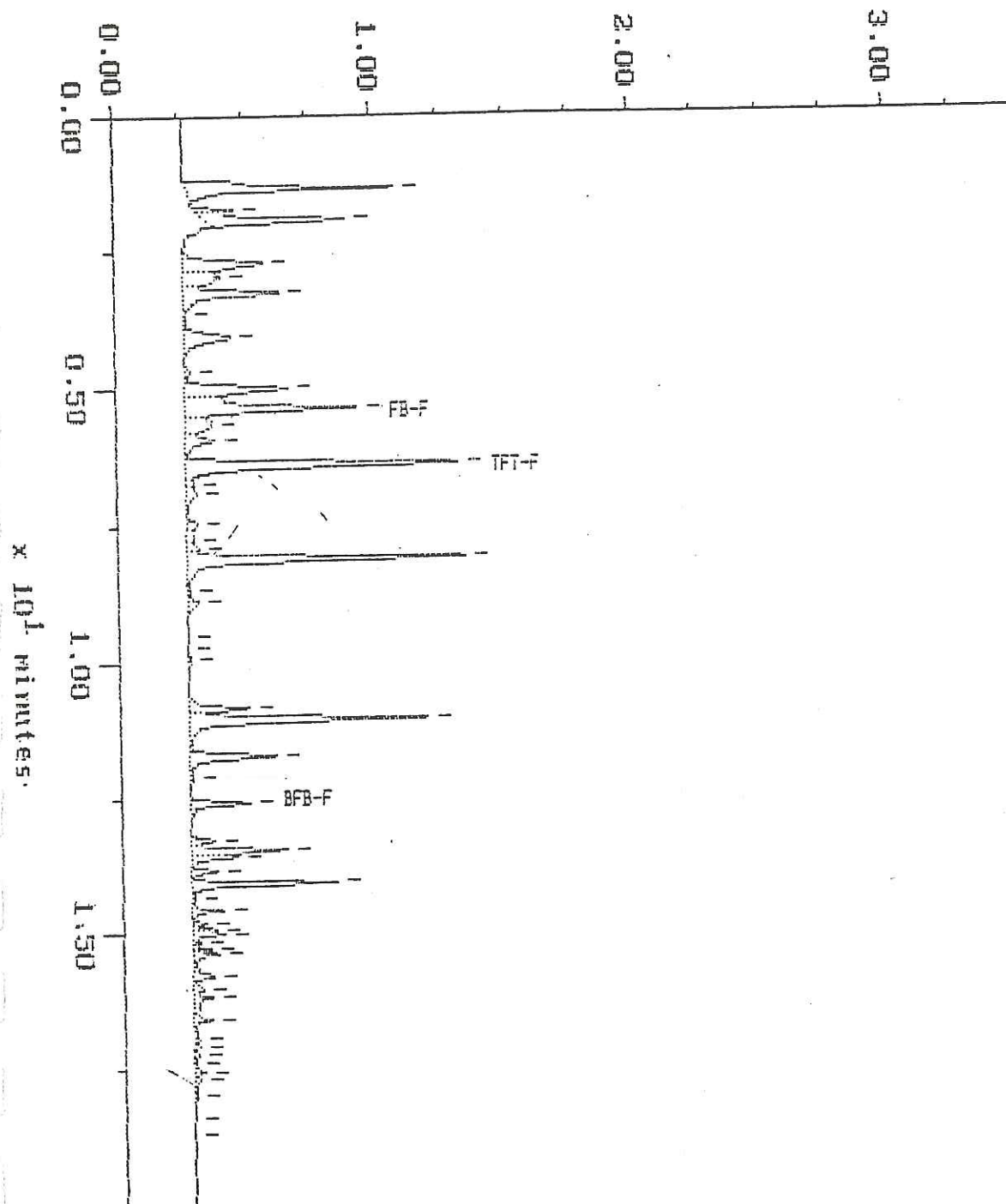


CONTINUING CALIBRATION

Sample: STD-C G Channel: FID
Acquired: 02-JAN-96 8:41 Method: X:\MAXDATA\GLAD\010296GS
Comments: ATI : A COMMITMENT TO QUALITY

Filename: R1029601
Operator: ATI

$\times 10^{-1}$ volts

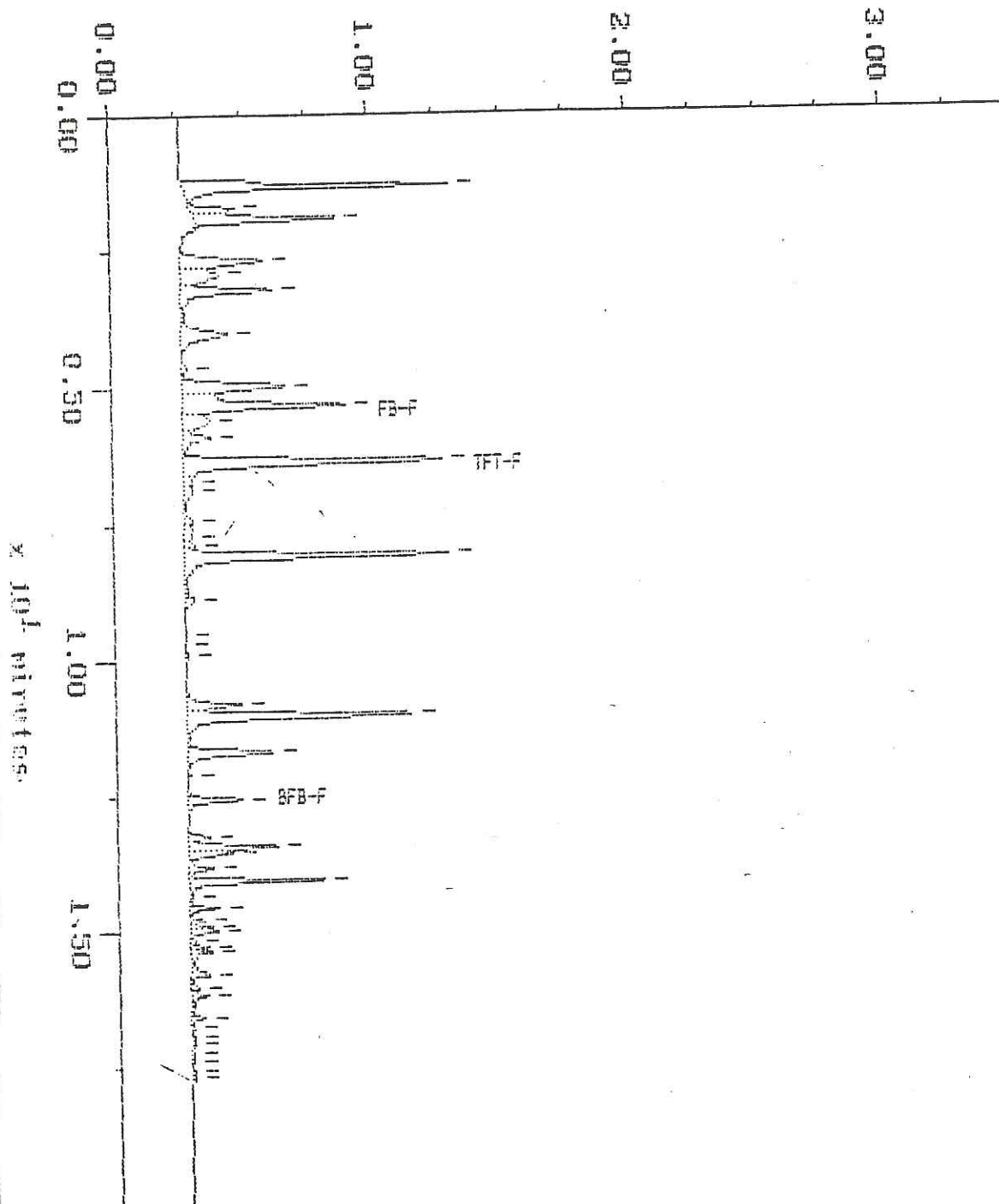


CONTINUING CALIBRATION

Sample: STD-C G Channel: FID
Acquired: 03-JAN-96 6:39 Method: X:\MAXDATA\GLAD\01029668
Comments: ATI : A COMMITMENT TO QUALITY

Filename: R1029644
Operator: ATI

$\times 10^{-1}$ Volts



PROJECT INFORMATION

Project Manager: PETER BARRY
 Project Name: FROST ROYAL/ WILLOCK
 Project Number: 15881.001
 Site Location: Willock, WA Sampled By: LGC

DISPOSAL INFORMATION

☒ Lab Disposal (return if not indicated)
 Disposal Method: _____
 Disposed by: _____ Disposal Date: _____

QC INFORMATION (check one)

☐ SW-846 ☐ CLP ☐ Screening ☒ AGI Std. ☐ Special

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
W-9	12-28-95	1315	HH20	1
W-10		1345		2
W-11		1200		3
W-12		1245		4

Laboratory Number: 512137

ANALYSIS REQUEST

PETROLEUM HYDROCARBONS		ORGANIC COMPOUNDS				PESTS/PCB's			METALS				LEACHING TESTS			OTHER		NUMBER OF CONTAINERS													
TFH-ID State:	TFH-G State:	TFH-D State:	TFH Special Instructions	418.1 State:	8015M	8010 Halogenated VOCs	8020 Aromatic VOCs	8020M - BETX only	8240 GCMS Volatiles	8270 GCMS Semivol.	8310 HPLC PAHs	8040 Phenols	DWS - Volatiles and Semivol.	8080 OC Pest/PCBs	8080M PCBs only	8140 OP Pesticides	8150 OC Herbicides		DWS - Herb/pest	Selected metals: list	Total Lead (Wa)	Organic Lead (Ca)	TCL Metals (23)	Priority Poll. Metals (13)	DWS - Metals	MFSP - Metals (Wa)	TCLP - Volatiles (ZHE)	TCLP - Semivolatiles	TCLP - Pesticides	TCLP - Metals	
	WA	XXXXX						XXXXX																							mmmm

LAB INFORMATION

SAMPLE RECEIPT

Lab Name: ATI Total Number of Containers: 12
 Lab Address: RENTON Chain of Custody Seals: Y/N/NA N
 Inact?: Y/N/NA N
 Via: LGC DELIVERY Received in Good Condition/Cold: Y
 Turn Around Time: ☒ Standard ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 1 wk.

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH DATA

Special Instructions:

RELINQUISHED BY: 1.

RELINQUISHED BY: 2.

RELINQUISHED BY: 3.

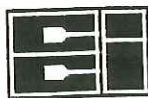
Signature: <u>[Signature]</u> Time: <u>12:28</u>	Signature: _____ Time: _____	Signature: _____ Time: _____
Printed Name: <u>Christie 12-28-95</u>	Printed Name: _____ Date: _____	Printed Name: _____ Date: _____
Company: <u>ATI</u>	Company: _____	Company: _____

RECEIVED BY: 1.

RECEIVED BY: 2.

RECEIVED BY: 3.

Signature: <u>[Signature]</u> Time: <u>12:28</u>	Signature: _____ Time: _____	Signature: _____ Time: _____
Printed Name: <u>Brian 12-28-95</u>	Printed Name: _____ Date: _____	Printed Name: _____ Date: _____
Company: <u>ATI</u>	Company: _____	Company: _____



Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLIENT: AGI TECHNOLOGIES
300 120TH AVE N.E.
BELLEVUE, WA 98005

DATE: 7/7/95
CCIL JOB #: 506073
CCIL SAMPLE #: 1
DATE RECEIVED: 6/30/95
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PETER BARRY/LIEF CHRISTENSON

CLIENT PROJECT ID: WINLOCK SCHOOL DISTRICT 15881.001
CLIENT SAMPLE ID: MW1-15.0 6/29/95 750

DATA RESULTS

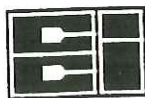
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-GASOLINE	WTPH-G	ND(<10)	MG/KG	100MG/KG	7/7/95	KLP
BENZENE	EPA-8020	ND(<0.2)	MG/KG	.5MG/KG	7/7/95	KLP
TOLUENE	EPA-8020	ND(<0.2)	MG/KG	40MG/KG	7/7/95	KLP
ETHYLBENZENE	EPA-8020	ND(<0.2)	MG/KG	20MG/KG	7/7/95	KLP
XYLENES	EPA-8020	ND(<0.6)	MG/KG	20MG/KG	7/7/95	KLP

* "ND" INDICATES ANALYTE NOT DETECTED AT CONCENTRATION ABOVE REPORTING LIMIT.
REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.
THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY
DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: ord



Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLIENT: AGI TECHNOLOGIES
300 120TH AVE N.E.
BELLEVUE, WA 98005

DATE: 7/7/95
CCIL JOB #: 506073
CCIL SAMPLE #: 2
DATE RECEIVED: 6/30/95
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PETER BARRY/LIEF CHRISTENSON

CLIENT PROJECT ID: WINLOCK SCHOOL DISTRICT 15881.001
CLIENT SAMPLE ID: MW2-10.0 6/29/95 925

DATA RESULTS

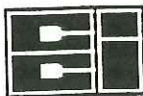
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION	ANALYSIS	ANALYSIS
				LEVEL***	DATE	BY
TPH-GASOLINE	WTPH-G	420	MG/KG	100MG/KG	7/6/95	KLP
BENZENE	EPA-8020	ND(<0.5)	MG/KG	.5MG/KG	7/6/95	KLP
TOLUENE	EPA-8020	1.6	MG/KG	40MG/KG	7/6/95	KLP
ETHYLBENZENE	EPA-8020	2.9	MG/KG	20MG/KG	7/6/95	KLP
XYLENES	EPA-8020	16	MG/KG	20MG/KG	7/6/95	KLP

* "ND" INDICATES ANALYTE NOT DETECTED AT CONCENTRATION ABOVE REPORTING LIMIT.
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CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.
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DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: 



Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLIENT: AGI TECHNOLOGIES
300 120TH AVE N.E.
BELLEVUE, WA 98005

DATE: 7/7/95
CCIL JOB #: 506073
CCIL SAMPLE #: 3
DATE RECEIVED: 6/30/95
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PETER BARRY/LIEF CHRISTENSON

CLIENT PROJECT ID: WINLOCK SCHOOL DISTRICT 15881.001
CLIENT SAMPLE ID: W-1 6/29/95 1845

DATA RESULTS

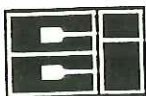
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION	ANALYSIS	ANALYSIS
				LEVEL ***	DATE	BY
TPH-GASOLINE	WTPH-G	150	UG/L	1000 UG/L	7/6/95	KLP
BENZENE	EPA-8020	8.5	UG/L	5 UG/L	7/6/95	KLP
TOLUENE	EPA-8020	1.6	UG/L	40 UG/L	7/6/95	KLP
ETHYLBENZENE	EPA-8020	1.4	UG/L	30 UG/L	7/6/95	KLP
XYLENES	EPA-8020	1.4	UG/L	20 UG/L	7/6/95	KLP

* "ND" INDICATES ANALYTE NOT DETECTED AT CONCENTRATION ABOVE REPORTING LIMIT.
REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.
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DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: CRP



Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLIENT: AGI TECHNOLOGIES
300 120TH AVE N.E.
BELLEVUE, WA 98005

DATE: 7/7/95
CCIL JOB #: 506073
CCIL SAMPLE #: 4
DATE RECEIVED: 6/30/95
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PETER BARRY/LIEF CHRISTENSON

CLIENT PROJECT ID: WINLOCK SCHOOL DISTRICT 15881.001
CLIENT SAMPLE ID: W-2 6/29/95 1905

DATA RESULTS

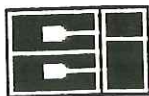
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION	ANALYSIS	ANALYSIS
				LEVEL***	DATE	BY
TPH-GASOLINE	WTPH-G	9700	UG/L	1000 UG/L	7/7/95	KLP
BENZENE	EPA-8020	390	UG/L	5 UG/L	7/7/95	KLP
TOLUENE	EPA-8020	400	UG/L	40 UG/L	7/7/95	KLP
ETHYLBENZENE	EPA-8020	240	UG/L	30 UG/L	7/7/95	KLP
XYLENES	EPA-8020	1100	UG/L	20 UG/L	7/7/95	KLP

* "ND" INDICATES ANALYTE NOT DETECTED AT CONCENTRATION ABOVE REPORTING LIMIT.
REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.
THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY
DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: CRH



Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLIENT: AGI TECHNOLOGIES
300 120TH AVE N.E.
BELLEVUE, WA 98005

DATE: 7/7/95
CCIL JOB #: 506073
CCIL SAMPLE #: 5
DATE RECEIVED: 6/30/95
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PETER BARRY/LIEF CHRISTENSON

CLIENT PROJECT ID: WINLOCK SCHOOL DISTRICT 15881.001
CLIENT SAMPLE ID: W-3 6/29/95 1745

DATA RESULTS

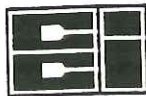
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-GASOLINE	WTPH-G	75	UG/L	1000 UG/L	7/6/95	KLP
BENZENE	EPA-8020	ND(<1)	UG/L	5 UG/L	7/6/95	KLP
TOLUENE	EPA-8020	ND(<1)	UG/L	40 UG/L	7/6/95	KLP
ETHYLBENZENE	EPA-8020	ND(<1)	UG/L	30 UG/L	7/6/95	KLP
XYLENES	EPA-8020	ND(<3)	UG/L	20 UG/L	7/6/95	KLP

* "ND" INDICATES ANALYTE NOT DETECTED AT CONCENTRATION ABOVE REPORTING LIMIT.
REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.
THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY
DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: C121



Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLIENT: AGI TECHNOLOGIES
300 120TH AVE N.E.
BELLEVUE, WA 98005

DATE: 7/7/95
CCIL JOB #: 506073
CCIL SAMPLE #: 6
DATE RECEIVED: 6/30/95
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PETER BARRY/LIEF CHRISTENSON

CLIENT PROJECT ID: WINLOCK SCHOOL DISTRICT 15881.001
CLIENT SAMPLE ID: W-4 6/29/95 1815

DATA RESULTS

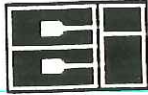
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-GASOLINE	WTPH-G	130	UG/L	1000 UG/L	7/6/95	KLP
BENZENE	EPA-8020	ND(<2)	UG/L	5 UG/L	7/6/95	KLP
TOLUENE	EPA-8020	ND(<2)	UG/L	40 UG/L	7/6/95	KLP
ETHYLBENZENE	EPA-8020	ND(<2)	UG/L	30 UG/L	7/6/95	KLP
XYLENES	EPA-8020	ND(<6)	UG/L	20 UG/L	7/6/95	KLP

* "ND" INDICATES ANALYTE NOT DETECTED AT CONCENTRATION ABOVE REPORTING LIMIT.
REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.
THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY
DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: C.R.L.



Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLIENT: AGI TECHNOLOGIES
300 120TH AVE N.E.
BELLEVUE, WA 98005

DATE: 7/7/95
CCIL JOB #: 506073
CCIL SAMPLE #: 1 DUP
DATE RECEIVED: 6/30/95
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PETER BARRY/LIEF CHRISTENSON

CLIENT PROJECT ID: WINLOCK SCHOOL DISTRICT 15881.001
CLIENT SAMPLE ID: DUPLICATE OF MW1-15.0 6/29/95 750

DATA RESULTS

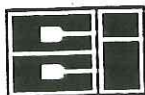
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-GASOLINE	WTPH-G	ND(<10)	MG/KG	100MG/KG	7/7/95	KLP
BENZENE	EPA-8020	ND(<0.2)	MG/KG	.5MG/KG	7/7/95	KLP
TOLUENE	EPA-8020	ND(<0.2)	MG/KG	40MG/KG	7/7/95	KLP
ETHYLBENZENE	EPA-8020	ND(<0.2)	MG/KG	20MG/KG	7/7/95	KLP
XYLENES	EPA-8020	ND(<0.6)	MG/KG	20MG/KG	7/7/95	KLP

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APPROVED BY:



Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLIENT: AGI TECHNOLOGIES
300 120TH AVE N.E.
BELLEVUE, WA 98005

DATE: 7/7/95
CCIL JOB #: 506073
CCIL SAMPLE #: 6 DUP
DATE RECEIVED: 6/30/95
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PETER BARRY/LIEF CHRISTENSON

CLIENT PROJECT ID: WINLOCK SCHOOL DISTRICT 15881.001
CLIENT SAMPLE ID: DUPLICATE OF W-4 6/29/95 1815

DATA RESULTS

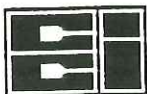
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-GASOLINE	WTPH-G	140	UG/L	1000 UG/L	7/6/95	KLP
BENZENE	EPA-8020	ND(<2)	UG/L	5 UG/L	7/6/95	KLP
TOLUENE	EPA-8020	ND(<2)	UG/L	40 UG/L	7/6/95	KLP
ETHYLBENZENE	EPA-8020	ND(<2)	UG/L	30 UG/L	7/6/95	KLP
XYLENES	EPA-8020	ND(<6)	UG/L	20 UG/L	7/6/95	KLP

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APPROVED BY: CRB



Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLIENT: AGI TECHNOLOGIES
300 120TH AVE N.E.
BELLEVUE, WA 98005

DATE: 7/7/95
CCIL JOB #: 506073
CCIL SAMPLE #: BLK
DATE RECEIVED: 6/30/95
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PETER BARRY/LIEF CHRISTENSON

CLIENT PROJECT ID: WINLOCK SCHOOL DISTRICT 15881.001
CLIENT SAMPLE ID: METHOD BLANK FOR SOIL

DATA RESULTS

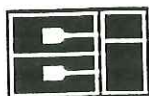
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-GASOLINE	WTPH-G	ND(<5)	MG/KG	100MG/KG	7/6/95	KLP
BENZENE	EPA-8020	ND(<0.1)	MG/KG	.5MG/KG	7/6/95	KLP
TOLUENE	EPA-8020	ND(<0.1)	MG/KG	40MG/KG	7/6/95	KLP
ETHYLBENZENE	EPA-8020	ND(<0.1)	MG/KG	20MG/KG	7/6/95	KLP
XYLENES	EPA-8020	ND(<0.3)	MG/KG	20MG/KG	7/6/95	KLP

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APPROVED BY: 



Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLIENT: AGI TECHNOLOGIES
300 120TH AVE N.E.
BELLEVUE, WA 98005

DATE: 7/7/95
CCIL JOB #: 506073
CCIL SAMPLE #: BLK
DATE RECEIVED: 6/30/95
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PETER BARRY/LIEF CHRISTENSON

CLIENT PROJECT ID: WINLOCK SCHOOL DISTRICT 15881.001
CLIENT SAMPLE ID: METHOD BLANK FOR WATER

DATA RESULTS

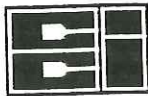
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION	ANALYSIS	ANALYSIS
				LEVEL ***	DATE	BY
TPH-GASOLINE	WTPH-G	ND(<50)	UG/L	1000 UG/L	7/6/95	KLP
BENZENE	EPA-8020	ND(<1)	UG/L	5 UG/L	7/6/95	KLP
TOLUENE	EPA-8020	ND(<1)	UG/L	40 UG/L	7/6/95	KLP
ETHYLBENZENE	EPA-8020	ND(<1)	UG/L	30 UG/L	7/6/95	KLP
XYLENES	EPA-8020	ND(<3)	UG/L	20 UG/L	7/6/95	KLP

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APPROVED BY: CRL



Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLIENT: AGI TECHNOLOGIES
300 120TH AVE N.E.
BELLEVUE, WA 98005

DATE: 7/7/95
CCIL JOB #: 506073

DATE RECEIVED: 6/30/95
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PETER BARRY/LIEF CHRISTENSON

CLIENT PROJECT ID: WINLOCK SCHOOL DISTRICT 15881.001

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
506073-01	WTPH-G	TFT	104
506073-01	EPA-8020	TFT	90
506073-02	WTPH-G	TFT	110
506073-02	EPA-8020	TFT	100
506073-03	WTPH-G	TFT	111
506073-03	EPA-8020	TFT	100
506073-04	WTPH-G	TFT	109
506073-04	EPA-8020	TFT	97
506073-05	WTPH-G	TFT	107
506073-05	EPA-8020	TFT	90
506073-06	WTPH-G	TFT	107
506073-06	EPA-8020	TFT	94

MATRIX SPIKE RESULTS

METHOD	SPIKE ID	%MS RECV
WTPH-G SOIL	GASOLINE	96
EPA-8020 SOIL	BENZENE	88
EPA-8020 SOIL	TOLUENE	94
EPA-8020 SOIL	ETHYLBENZENE	92
EPA-8020 SOIL	XYLENES	91
WTPH-G WATER	GASOLINE	112
EPA-8020 WATER	BENZENE	92
EPA-8020 WATER	TOLUENE	98
EPA-8020 WATER	ETHYLBENZENE	96
EPA-8020 WATER	XYLENES	94

APPROVED BY: 