

Draft

**Phase II Environmental Site Assessment
Former Boise Cascade Mill Site
Yakima, Washington**

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CITATION

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CERTIFICATION

The technical material and data contained in this document were prepared under the supervision and direction of the undersigned, whose seal, as a licensed hydrogeologist licensed to practice as such, is affixed below.

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ACRONYMS

ARI	Analytical Resources, Inc.
AST	aboveground storage tank
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CH ₄	methane
CLARC	Cleanup Levels and Risk Calculation
CO ₂	carbon dioxide
COC	contaminant of concern
CSM	conceptual site model
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
GPR	ground penetrating radar
municipal landfill site	former City of Yakima Municipal Landfill
MCL	Maximum Contaminant Level
MTCA	Model Toxic Control Act
O ₂	oxygen
Owner	Leelynn, Inc. and Wiley Mt., Inc.
PCB	polychlorinated biphenyl
ppm	parts per million
psi	pounds per square inch
QAPP	Quality Assurance Project Plan
SA	Site Assessment
SAP	Sampling and Analysis Plan
SIM	selective ion monitoring
Subject Property	former Boise Cascade Sawmill and Plywood Mill Facility
SVOCs	semivolatile organic compounds
TPH	total petroleum hydrocarbons
USCS	Unified Soil Classification System
VOCs	volatile organic compounds
WAC	Washington Administrative Code
YCHD	Yakima County Health District

1. INTRODUCTION

1.1 PURPOSE

This Phase II Environmental Site Assessment (ESA) was conducted to evaluate environmental conditions on the former Boise Cascade Sawmill and Plywood Mill Facility (the Subject Property) in Yakima, Washington. This Phase II ESA was executed in accordance with the “Sampling and Analysis Plan/Quality Assurance Project Plan (SAP/QAPP), Phase II Environmental Site Assessment” dated December 2007 (Parametrix 2007) and in conformance with ASTM Phase II Environmental Site Assessment Process (E1903-97 [Reapproved 2002]). A copy of the SAP/QAPP is included in Appendix A for reference.

1.2 SITE LOCATION AND DESCRIPTION

The Subject Property is located at 805 North 7th Street in Yakima, Washington (see Figure 1-1). Properties adjacent to the Subject Property include:

North: Commercial properties

South: Commercial properties

East: Interstate 82

West: Residential properties

The Subject Property occupies approximately 180 acres and is currently owned by Leelynn, Inc. and Wiley Mt., Inc. (Owner). The property has a generally flat topography, with a slight slope to the east and an elevation of 1,070 feet above the National Geodetic Vertical Datum.

Since the early 1900s, the Subject Property operated as a sawmill and later added a plywood mill. The mills closed in recent years, and parts of the Subject Property are currently leased for hay storage, firewood packing, and wood chipping.

A former City of Yakima municipal landfill (municipal landfill site) is located south and east of the Subject Property. For a period of time in the 1960s and 1970s, the City of Yakima used one of the former log ponds as a municipal landfill. This municipal landfill has been closed and covered, and has since been used as a log deck. The Owner currently leases the municipal landfill site from the previous owner. Parametrix is simultaneously conducting a separate Phase II ESA on the municipal landfill site, which includes groundwater monitoring, methane monitoring, and extent of refuse definition. Results of the groundwater and methane monitoring associated with the municipal landfill site are referenced as relevant technical information in this report. Parametrix has estimated that the municipal landfill is approximately 20 acres in size.

1.3 OBJECTIVES

The objectives of the investigation were:

- Conduct a geophysical survey using a magnetometer and ground penetrating radar (GPR) to clear test pit and drilling locations for buried utilities.
- Sample the six existing groundwater monitoring wells on the Subject Property (MW-1, 3, 4, 5, 6, and 10) and the three wells on the municipal landfill site (MW-7, MW-8, and MW-9A) for groundwater quality. Depth to water was also to be measured in these wells to assess the approximate direction of groundwater flow. The

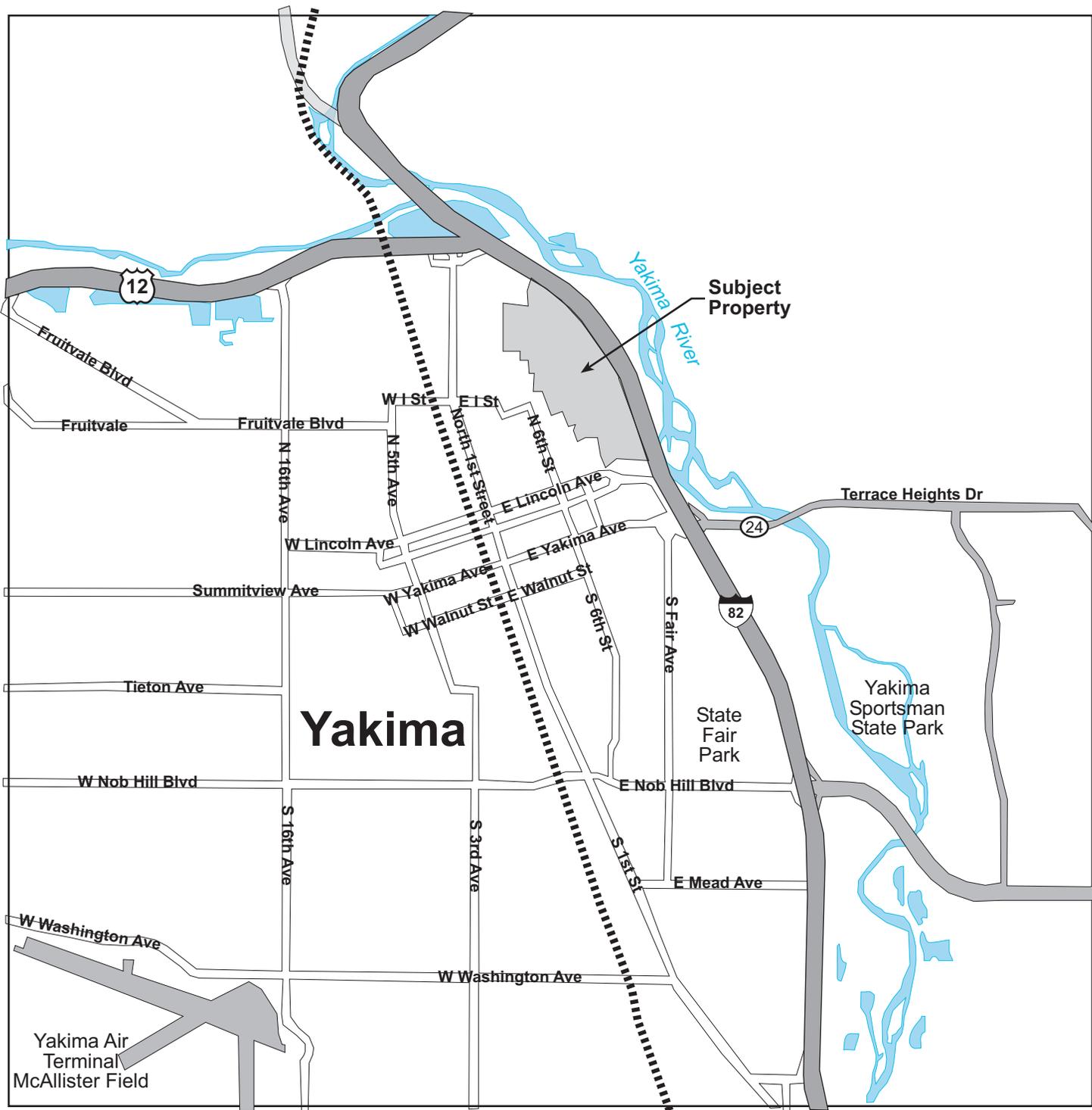
groundwater sampling and monitoring on the municipal landfill site was conducted concurrently with the sampling on the Subject Property.

- Conduct surface water sampling at the ponds on the Subject Property to assess surface water quality.
- Excavate test pits and collect soil samples in areas identified as potentially contaminated during the site visits and file reviews, to assess the presence or absence of contamination.
- Drill test borings and collect soil and groundwater samples in areas where test pits are not feasible, to assess the presence or absence of contamination. Based on the results of the groundwater sampling, convert selected borings to monitoring wells or gas probes.
- Conduct a methane survey at the Subject Property to assess the potential for risk related to methane generation and migration.
- Conduct a hazardous materials survey of the two boiler house structures on the Subject Property.
- Evaluate the need for Subject Property remediation and prepare an opinion of probable cost.

1.4 REPORT ORGANIZATION

This report is organized as described below:

- Section 1: Introduction – discusses purpose, site description, and objectives of the assessment
- Section 2: Background – provides a summary of historical operation at the Subject Property
- Section 3: Conceptual Site Model (CSM) – discusses geology and hydrogeology
- Section 4: Field Investigations Activities – describes the field activities conducted for the assessment
- Section 5: Summary of Results – presents the findings of the assessment
- Section 6: Conclusions
- Section 7: Opinion of Probable Cost and Recommendations for Further Action
- Section 8: References
- Section 9: Limitations and Exceptions of Assessment



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Figure 1-1
Site Location Map
Former Boise Cascade Mill Site
Yakima, Washington

2. BACKGROUND

Background information, including Subject Property history and areas of potential concern, was compiled from a review of documents provided by the Owner and a Washington State Department of Ecology (Ecology) file review. This information is summarized in the following sections. See Figure 2-1 for locations of buildings and areas identified in this section, as well as sampling locations.

2.1 SITE HISTORY

Historically a ranch, the Subject Property was developed in 1903 by the Cascade Lumber Company for use as a lumber mill commencing operations in 1904. The Cascade Lumber Company merged with Boise Payette Lumber Company between 1957 and 1958 to form Boise Cascade. The Subject Property was then sold to the Owner in 2004.

Historical documents show that of the buildings on the Subject Property that were built by Cascade Lumber Company, three remain: the warehouse/auto shop building (formerly a horse barn), the engine house, and the office. At least one other building, a fruit box factory, was on the Subject Property but is no longer present. Documentation (such as building permits) on the buildings built since then was not identifiable, and the available aerial photographs were limited.

A 1920 Sanborn Fire Insurance map showed the presence of three log ponds taking up approximately 60 percent of the Subject Property, railroad tracks running generally east-west (still present), a boiler house, and other additional buildings. More buildings and additions to existing buildings, concentrated on the western side of the Subject Property, were constructed from about 1920 through 1985. The small log sawmill was added in 1976.

Table 2-1 provides the chronological history of activities of concern at the Subject Property.

2.2 SUBJECT PROPERTY FEATURES AND POTENTIAL AREAS OF CONCERN

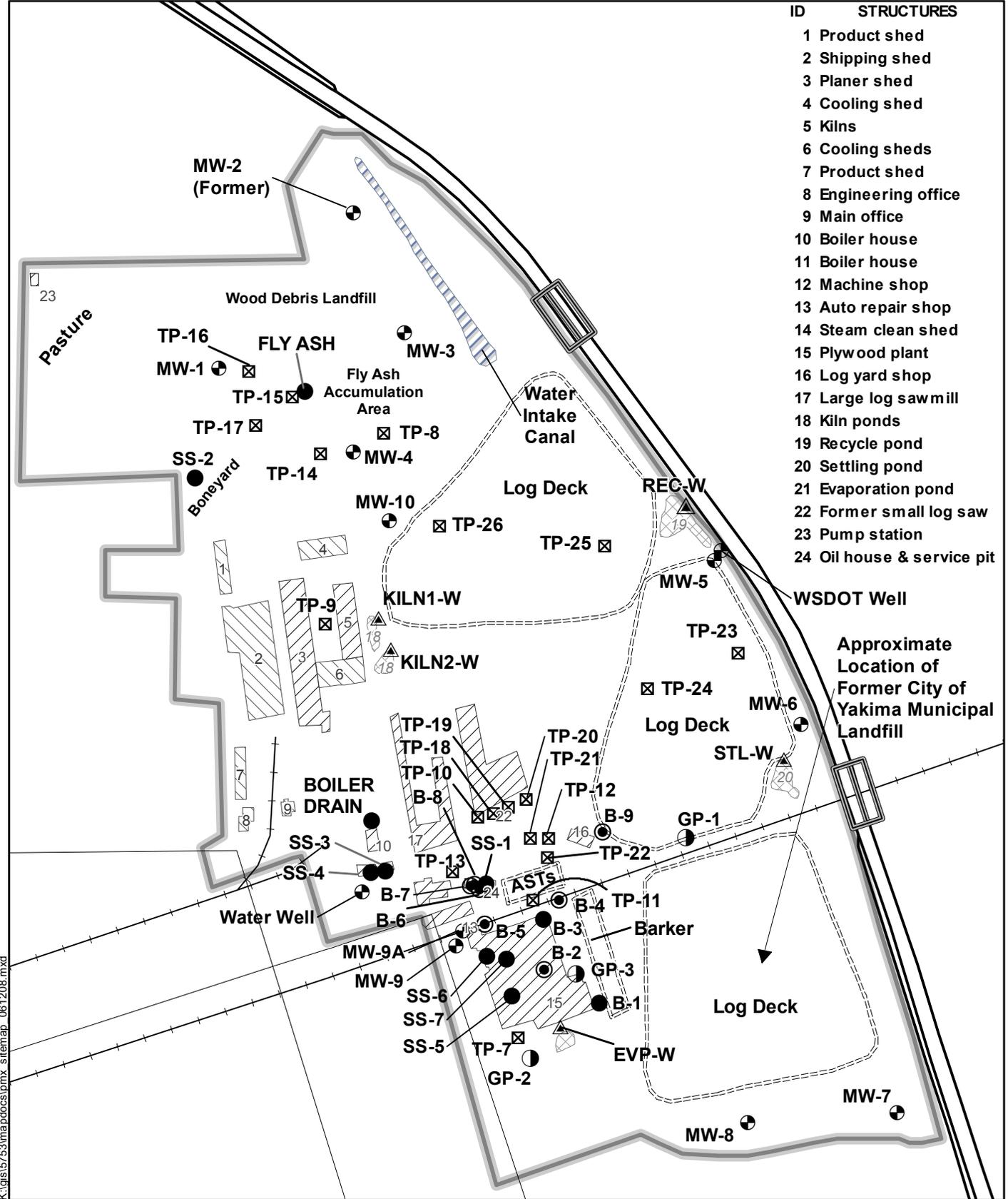
A number of areas of concern were identified on the Subject Property during the site visits and historical review. Primary concerns are related to the historical uses of the property and the wood debris landfill. An additional area of concern located south and east of the Subject Property is the municipal landfill that was discussed in Section 1.0 of this report. The site features and potential areas of concern on the Subject Property are described in detail below. Sampling locations are based on the results of these site visits and historical review.

2.2.1 Wood Debris Landfill

A wood debris landfill is located on 5.7 acres of the northern portion of the Subject Property (see Figure 2-1). The operating period of this landfill is uncertain because it was never permitted, and aerial photographs are limited for the likely period of use. A document submitted to Ecology by Boise Cascade states that the last year this landfill received material was in 1989. However, Ecology was aware that the landfill was continuing to operate in 1991 out of compliance with state law, and, as a result, the Yakima County Health District (YCHD) requested that Boise Cascade stop deposition of wood debris at the Subject Property and close it according to Washington Administrative Code (WAC) 173-304 (Steinmetz 1991).

A portion of this landfill was cleaned up and is no longer considered to be an environmental concern by Ecology (Silvestri 2005). According to the Phase I ESA, 2.6 acres were cleaned up, while a January 16, 1996, letter from the YCHD lists that 1.6 acres comprise the cleanup area (URS 2003). Though the Phase I SA reports that this landfill received material until 1991, it also states that wood debris was accumulated in an area northeast of the kilns, along with ash generated from the hog fuel boiler (URS 2003).

ID	STRUCTURES
1	Product shed
2	Shipping shed
3	Planer shed
4	Cooling shed
5	Kilns
6	Cooling sheds
7	Product shed
8	Engineering office
9	Main office
10	Boiler house
11	Boiler house
12	Machine shop
13	Auto repair shop
14	Steam clean shed
15	Plywood plant
16	Log yard shop
17	Large log saw mill
18	Kiln ponds
19	Recycle pond
20	Settling pond
21	Evaporation pond
22	Former small log saw
23	Pump station
24	Oil house & service pit



**Figure 2-1
Former Boise Cascade
Mill Site Map
Yakima Washington**

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Table 2-1. Chronological History of Activities of Concern at Former Boise Cascade Mill Site

Year	Event	Source
1903	Cascade Lumber Company purchases Subject Property(a previous ranch)	URS 2003
1904	Subject Property begins to function as lumber mill	URS 2003
Post-lumber mill operation	Wood debris landfill begins operation after lumber mill begins operation	Not Available
1957 or 1958	Cascade Lumber Company merges with Boise Payette Lumber Company to form Boise Cascade	URS 2003
c. 1963	Southern log pond drained; municipal landfill begins operation	Rice 1996
1969	North and central log ponds drained from 40 to 6 acres	URS 2003
c. 1970	Municipal landfill closed	Rice 1996
early 1970s	Plywood manufacturing begins at the Subject Property	Not Available
1976	Small log sawmill built	URS 2003
1981	Asbestos and sodium hydroxide dumping occurred	Ecology 1987
1988	All known PCB-containing transformers removed from the Subject Property	URS 2003
1989	Leaking UST; consequently, four USTs removed from Subject Property	Card 1990
c. 1991	Wood debris landfill stops receiving material	Barlow 1991
1993	Ethylene glycol (antifreeze) release	Kollock 1993
1993	One UST removed from Subject Property (assumed no more USTs present)	Ecology 2006
1994	Remaining 6-acre log pond drained and filled	URS 2003
1995	Municipal landfill "rediscovered" during road construction	Bassett 1996
2000	Sodium hydroxide release into City sewer	Boise Cascade 2000
2003	Part of the wood debris landfill cleaned up	Wasley 2003
2004	Boise Cascade sells Subject Property to Leelynn, Inc. and Wiley Mt., Inc. (Owner)	N/A

PCB = polychlorinated biphenyl
UST = underground storage tank

2.2.2 Subject Property Buildings and Other Structures

Currently, the largest buildings on the Subject Property are the plywood plant, the planer shed, the shipping shed, the kilns, and the boiler house structures. Hazardous building materials (i.e., asbestos) may still be present in the boiler house structures (see Appendix B). The large and small log sawmills have been demolished in recent years, with only the concrete pads remaining.

There are also numerous offices and sheds, as well as the auto shop. These buildings are concentrated on the western side of the Subject Property, primarily north of the railroad tracks. Documentation on when most of the buildings on the Subject Property were constructed is very limited. See Figure 2-1 for buildings currently present, as well as the two sawmills.

A cattle pasture is present in the northwest corner of the Subject Property and the wood debris landfill is present in the northeast corner. Log decks cover the majority of the remainder of the Subject Property. The sheds in the northern part of the Subject Property are

currently leased and used for storage of hay, while the remainder of the Subject Property is being used for wood chipping and firewood packing.

Several areas of potential concern were identified during site visits by Parametrix:

- Three pump islands are located north of the railroad tracks (see Figure 2-1 for locations), which could be sources of petroleum contamination.
- The boneyard (open storage of miscellaneous equipment components), the steam clean shed, the auto repair shop, the former oil house/service pit, and the aboveground storage tanks could also be sources of petroleum contamination due to storage, cleaning, and maintenance of vehicles.
- A dry well was located between the former sawmill buildings, which could be a conduit for contamination to groundwater.
- The fly ash accumulation area, located west of the former wood debris landfill, was used to store fly ash produced by the hog fuel boiler.
- A boiler drain discharged water produced from the hog fuel boiler to the kiln ponds. Hog fuel used in the boiler included plywood wood waste, wood debris, wooden pallets, and woody debris used to clean up incidental oil or plywood adhesive spills. Therefore, fly ash and sediment in the boiler drain may be contaminated.
- There are several potential areas of concern in the plywood plant, including the hydraulic and lathe pits, oil/drying room, and maintenance shop.
- Although there is no historical information relating to potential contamination of the northern and central log decks, soil samples were taken in these areas to assess the presence of contamination.

2.2.3 Surface Water Features and Wells

The Yakima River is located to the north and east of the Subject Property across Interstate 82 (Figure 1-1). Immediately adjacent to the north side of the Subject Property is a heavily vegetated, grassy area. To the south and east of the grassy area is a water intake canal. Running beneath the Subject Property in an east-west direction is an irrigation culvert, which appears to be 5 to 10 feet below ground surface (bgs).

The Subject Property formerly contained two log ponds. The two adjacent ponds in the north of the Subject Property were drained in 1969 from 40 acres to 6 acres. The remaining central log pond was drained and filled in 1994.

As late as 1985, four smaller ponds were visible that currently exist on the property: the recycle pond (centrally located on the eastern border of the property), the settling pond south of the recycle pond, the kiln pond adjacent to the kilns, and the evaporation pond south of the plywood plant (Figure 2-1).

A third former log pond in the southern part of the Subject Property was drained around 1963 and converted to a municipal landfill that was operated by the City of Yakima.

Two water supply wells are reportedly present near the hog fuel boiler and the recycle pond. The depths and uses of these wells are not certain. A recent search of Ecology's well database identified the well near the hog fuel boiler as a water well installed by the Cascade Lumber Company in 1927 to a depth of 2,425 feet.

Ten monitoring wells were installed throughout the Subject Property, installed as part of a Boise Cascade surface water discharge permit requirement (Landau Associates, Inc. 1998).

The monitoring wells are currently regularly monitored by Fulcrum Environmental Consulting, Inc. (Fulcrum) for iron, manganese, and total dissolved solids content, in addition to the field parameters pH, temperature, and conductivity. In addition to these quarterly sampling parameters, Fulcrum annually analyzes for calcium, potassium, magnesium, sodium, total alkalinity, chloride, nitrate-nitrogen, and sulfate content.

2.3 POTENTIAL FUTURE PROPERTY USE

Based on recent changes to the City's zoning regulations, the property has the potential for redevelopment as a mixed use site. The City of Yakima has adopted amendments to its Urban Area Comprehensive Plan which designates the property as Commercial Regional. New zoning regulations implementing the Comprehensive Plan (scheduled to be adopted by September of 2008) will allow development of the property for permitted industrial and commercial land uses as well as for a mixed use planned development. The new zoning regulations allow and encourage flexible development options for integrated uses including retail, commercial, professional, light industrial, and high density residential.

3. CONCEPTUAL SITE MODEL

3.1 REGIONAL HYDROGEOLOGIC SETTING

The City of Yakima and surrounding area are part of the Columbia River Basin, which has been largely shaped by volcanic activity and several glaciations. The Yakima region sequence is composed of alluvium at the surface, underlain by the Ellensburg Formation and cemented gravel, and Miocene basalt flows from the Columbia River Group Basalt (Landau Associates, Inc. 1998). Deposits encountered during the Parametrix investigation drilling included alluvial gravels, sand, and silt, as well as fill.

Shallow groundwater in this area appears to flow to the southeast and east, towards the Yakima River. Ten monitoring wells were constructed by Landau Associates on the Subject Property (MW-1 through MW-6, MW-10) and the municipal landfill site (MW-7 through MW-9) as part of the Hydrogeologic Study and Groundwater Monitoring Plan (Landau Associates, Inc. 1998). Only seven of these wells are still operational and MW-9 is dry. During the investigation, a replacement well (MW-9A) was constructed.

3.2 BENEFICIAL USE OF GROUNDWATER

A search of the Ecology website located 12 water wells that are potentially downgradient and within 0.5 mile of the Subject Property. Five of these (identified in Figure 3-1) are listed as water supply wells. One unnamed well was installed on the Subject Property by Cascade Lumber Company in 1927. This is likely the on-site water well located near the hog fuel boiler. Three wells are listed as irrigation wells installed by the Washington Highway Department (now Washington State Department of Transportation [WSDOT]). The irrigation well installed in 1985 is likely the WSDOT well located near MW-5 on the Subject Property. The water supply well installed in 1985 is labeled as a domestic well for the North Acres Mobile Home Park. This mobile home park is located northwest of the Subject Property, therefore the location may be incorrect.

Table 3-1. Downgradient Water Supply Wells within 0.5 Mile of Subject Property

Well Group	Well ID	Owner at Installation	Year Installed	Depth (ft)	Use
1	-	WA Highway Dept.	1965	30	Irrigation
2	-	WA Highway Dept.	1985	20	Irrigation
3	-	North Acres Mobile Home Park	1985	72	Domestic
4	-	Cascade Lumber Co.	1927	2425	Water
5	-	WA Highway Dept.	1965	34	Irrigation

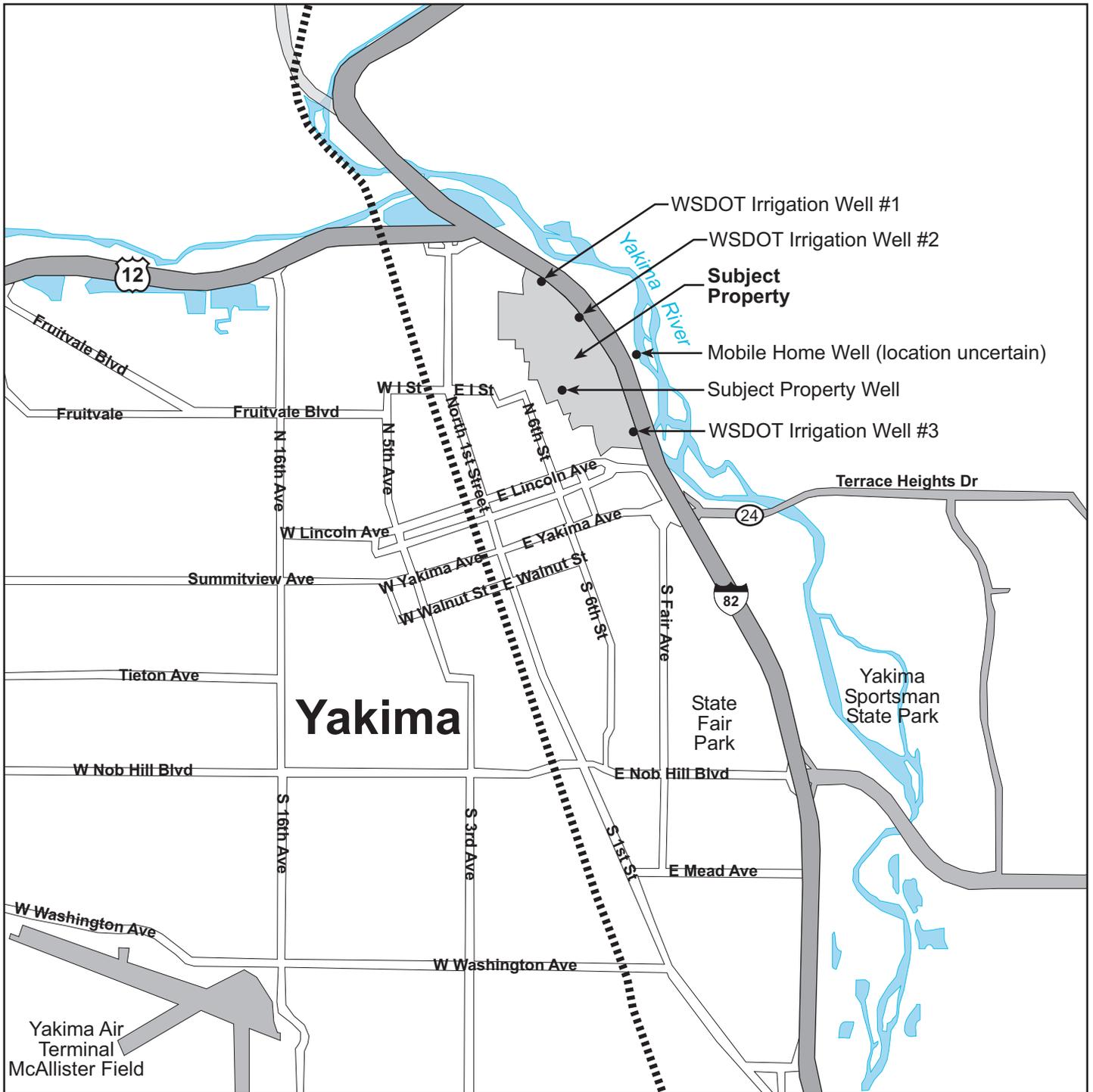
Well information from <http://apps.ecy.wa.gov/website/facsite/viewer.htm>

3.3 SUBJECT PROPERTY HYDROGEOLOGY

Three gas probes and one replacement monitoring well were constructed during this investigation. In addition to these subsurface explorations, 19 test pits were excavated and nine soil borings were drilled. Deposits encountered while excavating and drilling included fill material and alluvial gravel, sand, and silt. Fill materials consisted of silty to sandy gravel with cobbles and woody log yard debris (bark, sawdust, woodchips, whole logs). Anthropogenic debris material (wire, plastic, glass) was also encountered. Fill material, primarily wood debris and some cobbles, is found over much of the Subject Property, ranging

in depths from approximately 2 feet to greater than 16.5 feet. Native soil appears to be silty sandy gravels underlain by silts. For details of the geology, see Section 5.1.

Groundwater was encountered on the Subject Property from 8.5 to 20 feet below grade at the time of excavation and drilling. The hydrogeologic study conducted by Landau Associates, Inc., concluded that groundwater flow in this shallow zone was to the south-southeast (Landau Associates, Inc. 1998), towards the Yakima River. An evaluation of groundwater elevations from 2008 suggests that conditions are similar to those indicated by the 1998 measurements (see Appendix C). Seasonal groundwater fluctuations are present on the Subject Property due to proximity to the Yakima River and leakage from the irrigation canal. Groundwater levels are high in the summer and low in the winter.



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Figure 3-1
Downgradient Water Supply
Wells in Proximity to Site
Former Boise Cascade Mill Site
Yakima, Washington



4. FIELD INVESTIGATION ACTIVITIES

Field activities at the Subject Property included the following:

- Conducted a geophysical survey;
- Excavated test pits and drilling soil borings for soil classification and collect soil samples for laboratory analysis;
- Collected groundwater and surface water samples for laboratory analysis;
- Performed a methane survey, including installation of gas probes and measuring levels of combustible gas in existing monitoring wells; and
- Conducted a hazardous materials survey of the two boiler house structures.

4.1 GEOPHYSICAL SURVEY

A geophysical survey was conducted on February 12 and 13, 2008, to clear excavation and drilling locations for underground utilities and to check for USTs that might be located beneath the Subject Property. The survey was conducted by Geo Recon International using GPR. GPR used during this survey was a GSSI, SIR System 3000, which utilizes a 400 megahertz antenna transmitting a 2.5 nanosecond pulse at a rate of 16 times per second. When the GPR signal encounters a change in electrical properties (a change in electrical permittivity), the reflected signal is digitally processed and recorded in the instrument consol. The character of the reflection is used to interpret the source (underground utilities, underground storage tanks, etc.) of the reflection. No subsurface anomalies that could be USTs were identified during the survey.

4.2 TEST PITS, DRILLING, AND SOIL SAMPLING

Nineteen test pits were excavated on the Subject Property to depths of 8 to 20 feet below grade. Five test pits were excavated by Saybr Contractors on February 25 to 27, 2008, using a backhoe. Gas probes were installed in two of these test pits (GP-1, GP-2). Four additional test pits were excavated by Top Rail Construction to assess the extent of fly ash in the Fly Ash Accumulation Area in the northern part of the property on April 9, 2008. The remaining nine test pits were excavated on May 19, 2008, by Top Rail Construction, to assess the extent of contamination identified in the February and March 2008 sampling event and to identify contamination in the northern and central log decks.

Seven surface soil samples were collected with hand sampling equipment on February 25 to 27, 2008, and March 3 and 4, 2008 by Parametrix personnel. Samples were collected from the fly ash piles, boiler drain, boneyard, hog fuel boiler, and plywood plant. Most of these locations were inaccessible with the excavator or drill rig.

Eleven soil borings were drilled to depths of 14 to 30 feet below grade by Boart Longyear on March 3 and 4, 2008, using a sonic drilling rig. A gas probe (GP-3) was installed in one of these borings. The second boring was drilled in order to install a replacement monitoring well (MW-9A) for MW-9, which was dry.

Test pit and boring locations were checked for subsurface utilities prior to drilling by Applied Professional Services. Table 4-1 summarizes the rationale for placement of the test pits and borings. The borings were logged by a Parametrix geologist in accordance with the Unified Soil Classification System (USCS). The soil boring logs are attached in Appendix D. Test pits were backfilled with the material excavated from them, with attention to the original

stratification. After completion of drilling, borings were backfilled with bentonite and then topped with concrete.

Table 4-1. Rationale for Location of Soil Test Pits, Borings, and Surface Sample

Location Name	Location	Rationale for Location
B-1	Southeastern corner of Plywood Plant	Soil type
B-2	North of lathe pit, Plywood Plant	Lathe pit contamination
B-3	North of hydraulic pit, Plywood Plant	Hydraulic pit contamination
B-4	Near northern drain, NE Plywood Plant	Contamination through drain
B-5	East of Auto Repair Shop	Petroleum contamination
B-6	South of Central Pump Station	Petroleum contamination
B-7	South of Steam Clean Shed	Petroleum contamination
B-8	West of Western Pump Station	Petroleum contamination
B-9	Southeast of Log Yard Shop	Petroleum contamination
BOILER DRAIN	Southern end of boiler drain	Contamination from boiler
FLY ASH	Fly Ash Accumulation Area	Composition of boiler fly ash
GP-1	Southern side of Middle Log Deck	Methane survey just outside municipal landfill
GP-2	Southwestern corner of Plywood Plant	Methane survey just outside municipal landfill; evaluate stained pavement area
GP-3	Eastern side of Plywood Plant	Methane survey just outside municipal landfill
MW-9A	Northwest of Plywood Plant	Replacement for MW-9 (dry)
SS-1	Service Pit north of Oil House	Contamination from service pit
SS-2	Boneyard	Contamination by derelict equipment
SS-3	Near drain in Boiler House	Contamination through drain
SS-4	Under caustic AST in Boiler House	Caustic contamination
SS-5	Southwestern drain in Plywood Plant	Contamination through drain
SS-6	Northwestern drain in Plywood Plant	Contamination through drain
SS-7	Near caustic AST in Plywood Plant	Caustic contamination
TP-8	Wood Debris Landfill	Wood debris and fly ash area
TP-9	Between Planer Shed and Kilns	Former Oil Car Location
TP-10	East of Dry Well	Contamination due to dry well
TP-11	South of ASTs	Petroleum contamination from ASTs
TP-12	West of Eastern Pump Station	Petroleum contamination
TP-13	North of Machine Shop	Petroleum contamination
TP-14	Northern Wood Debris Landfill	Extent of Fly Ash
TP-15	Wood Debris Landfill	Extent of Fly Ash
TP-16	Fly Ash Accumulation Area	Extent of Fly Ash
TP-17	Eastern Fly Ash Accumulation Area	Extent of Fly Ash
TP-18	East of TP-10	Assess extent of TP-10 contamination
TP-19	East of TP-18	Assess extent of TP-10 contamination
TP-20	East of TP-19	Assess extent of TP-10 contamination

**Table 4-1. Rationale for Location of Soil Test Pits, Borings, and Surface Sample
(continued)**

Location Name	Location	Rationale for Location
TP-21	West of TP-12	Assess extent of TP-12 contamination
TP-22	South of TP-12	Assess extent of TP-12 contamination
TP-23	Eastern side of central log deck	Composition of log deck
TP-24	Western side of central log deck	Composition of log deck
TP-25	Eastern side of northern log deck	Composition of log deck
TP-26	Western side of northern log deck	Composition of log deck

AST = aboveground storage tank

4.3 LABORATORY ANALYSIS

Seven groundwater samples and one duplicate were selected for laboratory analysis. MW-1 was sampled on February 5, 2008; MW-7, MW-8, and MW-10 were sampled on February 6, 2008; MW-5 and MW-6 were sampled on February 7, 2008; and MW-9A was sampled on March 25, 2008. Six surface water samples and one duplicate were sampled on February 28, 2008. The samples were placed in appropriate containers and labeled with the well number (“MW-1” for monitoring well 1; “EVP-W” for evaporation pond sample). Duplicates are designated with a D (i.e., the duplicate for EVP-W is EVP-WD). These samples were delivered, under chain-of-custody documentation, to Analytical Resources, Inc. (ARI), a contract laboratory, for analysis. Groundwater samples were analyzed for the following:

- Total petroleum hydrocarbons (TPH) as gasoline by Washington State Method NWTPH-Gx
- TPH as diesel and motor oil by Washington State Method NWTPH-Dx
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by U.S. Environmental Protection Agency (EPA) Method 8021B modified
- Volatile organic compounds (VOCs) by EPA Method 8260B (vinyl chloride with 8260B selective ion monitoring [SIM] for lower detection limit)
- Semivolatile organic compounds (SVOCs) by EPA Method 8270D
- PCBs by EPA Method 8082
- Metals by EPA Method 6010B (mercury by 7470A); dissolved metals field filtered
- Conventional by various EPA methods (see Table 5-1 for details)

Additional samples from MW-7, MW-8, and MW-9A (as well as a field duplicate) were taken on August 13, 2008, and analyzed for vinyl chloride (using the 8260B SIM method).

Forty-one soil samples plus two duplicates were selected for laboratory analysis based upon headspace readings, lithology, and field observations (odor, staining, etc.). The samples were placed in appropriate containers and labeled with the test pit or boring number (“B-1” for soil boring 1, “TP-1” for test pit 1, “SS-1” for surface sample 1, “GP-1” for gas probe 1) and depth below grade (feet). Duplicates were designated with a D (i.e., the duplicate for TP-12-13 is TP-12D-13). These samples were delivered, under chain-of-custody documentation, to ARI, a contract laboratory, for analysis. Soil samples were analyzed for the following:

- TPH as gasoline by Washington State Method NWTPH-Gx
- TPH as diesel and motor oil by Washington State Method NWTPH-Dx
- BTEX by EPA Method 8021B modified
- VOCs by EPA Method 8260B
- SVOCs by EPA Method 8270D
- PCBs by EPA Method 8082
- Metals by EPA Method 6010B (mercury by 7471A)
- pH by EPA Method 9045
- Total solids by EPA Method 160.3
- Total organic carbon (TOC) by Plumb (1981)

4.4 PRELIMINARY CLEANUP LEVELS

The Model Toxics Control Act (MTCA) regulations (Chapter 173-340 Washington Administrative Code [WAC]) provide cleanup levels for various chemicals in the environment, based on potential impacts to human health and the environment. When evaluating chemical data for site investigations, these MTCA cleanup levels serve as the basis for selecting preliminary cleanup levels (PCLs) to screen the data. Final cleanup levels are then selected as part of the remedial alternatives analysis for application to the site cleanup, by considering Applicable or Relevant and Appropriate Requirements (ARARs) along with the PCLs.

The selection of soil and water PCLs was affected, in part, by the current and future land uses of the Subject Property. Although the Subject Property is currently industrial, future development of the Subject Property may include mixed residential, retail, and commercial uses (greater exposure potential than the industrial scenario). Therefore, MTCA, Method A (unrestricted and industrial), Method B, and Method C cleanup levels published by Ecology were selected for evaluation.

MTCA Method A cleanup levels are based upon default criteria that can be applied to sites with a limited number of hazardous substances present, to routine cleanups, and where Method A values exist for all contaminants of concern. Method A values are usually the most protective and generally take into account all possible pathways of exposure. MTCA Method A includes both unrestricted and industrial cleanup levels. Many contaminants of concern have the same unrestricted as industrial cleanup level. Both unrestricted and industrial cleanup levels, if different, are provided in the data tables provided in Appendix F.

Method B is known as the “universal method” and can be applied to all sites. Method B uses risk-based equations, based on conservative assumptions, to come up with cleanup levels for different exposure pathways. MTCA B is typically used at sites that are contaminated with substances not included in Method A. Groundwater samples were also compared to U.S. EPA Maximum Contaminant Levels (MCLs).

Current published Ecology cleanup levels were attained from the Cleanup Levels and Risk Calculations (CLARC) webpage in May 2008. These cleanup levels were used to establish PCLs for the Subject Property as described below:

- If MTCA Method A and MTCA Method B, and MCL values were available, the lowest of these values was selected as PCLs for comparison to the data.

- Metals data in soil were also compared to background metals concentrations in accordance with Natural Background Soil Metals Concentrations in Washington State (Ecology 1994) for the Yakima Basin area. If the Ecology cleanup level for a metal was below the natural background, the background was selected as a PCL for comparison to the data.

4.5 METHANE SURVEY

Three methane surveys were conducted on the monitoring wells on the Subject Property (MW-1, MW-5, MW-6, MW-10) and the municipal landfill site (MW-7, MW-8, MW-9, MW-9A), as well as on the newly installed gas probes (GP-1, GP-2, GP-3). The listed monitoring wells were appropriate for methane testing because part of each well screen was open above the water table, such that methane (if present) could migrate into the well casing.

The first survey was conducted between February 5 and February 7, 2008, on a subset of the monitoring wells. This survey was conducted prior to the placement of valves on the well casings. The second survey was conducted on March 5, 2008, following the installation of the gas probes and the replacement well MW-9A. All monitoring wells, with the exception of MW-1, and all gas probes were surveyed at this time. Valves were attached to the well casings prior to this round of measurements.

A third survey was conducted on March 25, 2008, of the three gas probes and MW-9A. A limited bar-hole survey was conducted at this time in the vicinity of GP-1. The methane surveys were conducted using a GEM 500. A record of the calibration details are provided in Appendix E. Results of the methane surveys are presented in Section 5.6.

4.6 LIMITED HAZARDOUS MATERIALS SURVEY

A hazardous materials survey was conducted of the two boiler house structures on April 8 and 9, 2008, by a certified Asbestos Hazard Emergency Response Act (AHERA) building inspector from Parametrix. This included sampling of suspected asbestos-containing materials and lead-based paint, as well as identification of any other potentially hazardous materials, such as PCBs. A review of historical documents related to asbestos investigations at the Subject Property found that four small abatements had occurred in the past. A separate report has been prepared to detail these findings and is provided in Appendix B.

4.7 DEVIATIONS FROM THE SAP/QAPP

The changes to the original plan outlined in the SAP/QAPP are listed below:

- Test pit and boring locations were modified based upon the results of the geophysical survey. Some boring locations were also moved or abandoned based on accessibility or overhead obstructions. Where possible, surface samples were taken in these locations.
- Soil samples were not collected in or adjacent to the oil/drying room in the northwest corner of the plywood plant due to overhead and subsurface obstructions. The nearest subsurface borings to this location were B-5 and MW-9A.
- MW-9 was dry and was not sampled. A replacement well (MW-9A) was installed and subsequently sampled.
- MW-3 and MW-4 were not located and appeared to have been covered by wood debris.
- Field measurements for pH were only taken for one well (MW-1), due to equipment problems. Determination of pH was measured by the analytical laboratory.

5. SUMMARY OF RESULTS

This section details the results of the subsurface investigation and environmental sampling that occurred primarily in the first few months of 2008. The environmental sampling included groundwater, surface water, surface soil, and subsurface soil sampling. The results of the analyses were compared to the PCLs and MCLs, as described in Section 4.4 of this report. Based on this evaluation of the data, the primary contaminants of concern (COCs) that would drive cleanup are diesel and motor oil in soil. The only cleanup level for these COCs is MTCA A.

5.1 SUBSURFACE STRATIGRAPHY AND GROUNDWATER

Deposits encountered while excavating and drilling included fill material and alluvial gravel, sand, and silt. Fill materials consisted of silty to sandy gravel with cobbles and woody log yard debris. Anthropogenic debris material (wire, plastic, glass) was observed in TP-10 and TP-18 near the former dry well. Field observations are described in Table 5-1. Boring and test pit logs are provided in Appendix D.

Table 5-1. Summary of Field Observations Results, Subject Property

Location ID	Depth (Feet)	Lithology	Comments
B-1	0 to 5	Gravelly silty sand to sandy silt	Fill material
B-1	10 to 15	Gravelly silty sand to sandy silt	Fill material; water at 13 ft
B-2	13	Silty to sandy gravel	Fill material; water at 13 ft
B-2	8.5	Silty sandy gravel	Fill material; odor/sheen (diesel?); water at 14 ft
B-3	14	Silty sandy gravel	Odor/sheen (diesel?)
B-4	13	Sandy silt	Fill material, wood debris in part
B-5	10.5	Silty sandy gravel	Possibly wet at 10 ft
B-6	14	Silty sandy gravel	No odors or water detected
B-7	14	Silty sandy gravel	No odors or water detected
B-8	14	Silty sandy gravel	No odors or water detected
B-9	12	Silty sandy gravel	Slight odor (wood decomposition?); water at 13 ft
GP-1	5	Silty sand with cobbles and wood debris	Wood debris, no municipal solid waste
GP-1	10	Silty sand with gravel and cobbles	Appears to be natural stratification, no municipal solid waste
GP-2	5	Gravelly sand	Fill soil, no municipal solid waste
GP-3	5	Silty to sandy gravel	No municipal solid waste
GP-3	12	Silty sand	No municipal solid waste
MW-9A	5	Silty to sandy gravel	Appears to be natural stratification, no municipal solid waste
MW-9A	18	Silty to sandy gravel	First encountered groundwater, no municipal solid waste
TP-10	8	Silty sandy gravel	Fill material; possible staining at 6 ft

Table 5-1. Summary of Field Observations Results, Subject Property (continued)

Location ID	Depth (Feet)	Lithology	Comments
TP-10	13	Sandy silt	Observed debris material (glass, wire, red brick)
TP-11	4	Silty sandy gravel to sandy silt	No odors; fill material
TP-11	14	Silt	Native soil; sawdust fill above
TP-12	0 to 12.5	Pea gravel fill	Backfill material; native soil and product at 12.5 ft.
TP-13	8	Sandy gravel	No odors or water detected
TP-14	0 to 17	Wood debris, silt	Native soil at 15 ft; water at 15.5 ft; organic odor
TP-15	0 to 15	Woody debris, silt	Native soil/water at 13.5 ft
TP-16	2	Woody debris	No odor
TP-16	2 to 15	Woody debris, silt	Native soil/water at 13.5 ft
TP-17	1.5 to 3.5	Wood debris/soil	Burned wood, chemical/petroleum odor
TP-17	3.5 to 14	Wood debris, silt	Native soil/water at 13 ft; organic odor
TP-18	5	Gravel and cobbles with sand	Slight odor
TP-18	7	Cobbles	Strong diesel odor
TP-19	3	Silt to gravel	Strong organic odor
TP-19	7	Gravel with sand	Oily sheen
TP-20	10	Gravelly sand with cobbles/boulders	Slight hydrocarbon odor
TP-21	13	Wood debris fill	Ash, large timbers observed
TP-22	13	Wood debris fill with cobbles/ash	Slight decomposition/sewage odor
TP-23	7	Sand with cobbles	Slight chemical odor
TP-23	11	Sand with cobbles	Water at 11 ft.
TP-24	4	Cobbles with gravel, wood debris	No odor
TP-24	11	Sand with gravel and cobbles	Water at 11 ft.
TP-25	5	Clayey silt	Decomposition odor
TP-25	12	Sandy silt	Decomposition odor; water at 12 ft
TP-26	7	Clay to sandy silt	No odor
TP-26	10	Sandy silt	No odor; water at 10 ft

Headspace readings measured with a field photoionization detector, which detects organic vapors, ranged from 0 parts per million (ppm) to 40 ppm. Field observations of potential contamination (staining, odor) were observed in the following locations:

- B-3 (odor/sheen, possibly diesel), adjacent to hydraulic pit in the plywood plant
- TP-10 (product/glass/wire/red brick), adjacent to the dry well
- TP-12 (product), adjacent to eastern pump island
- TP-17 (chemical/petroleum odor), fly ash accumulation area

- TP-18 (strong diesel odor/glass bottles/wood pilings/concrete), adjacent to dry well and TP-10
- TP-19 (oily sheen), adjacent to dry well and TP-10 and TP-18
- TP-22 (decomposition/sewage odor), adjacent to eastern pump island and TP-12
- TP-23 (slight chemical odor), middle log deck area

Test pits TP-18 to TP-20 were excavated to assess the contamination observed in TP-10. The former large log sawmill foundation is adjacent to the dry well on the western side. Therefore, the additional test pits were excavated east of TP-10. TP-18 was excavated approximately 10 feet east of TP-10. Significant staining and odor was noted from 4 to 10 feet bgs with very low PID readings (0.1 to 0.2 ppm). Floating oil was present, though not continuous, on water in the test pit. TP-19 was excavated 20 to 25 feet east of TP-18. A sheen and odor was noticeable on gravels in this test pit. There was a dark stained layer located at 3 feet bgs. TP-20 was excavated 20 to 25 feet east of TP-19. A faint petroleum odor was noted in this test pit. Motor oil was detected in this sample, but at a level below regulatory standards.

Test pits TP-21 through TP-22 were excavated to assess the extent of contamination observed in TP-12. Underground utilities to the north and east of the original test pit limited potential areas of excavation. TP-21 was excavated approximately 25 feet west of TP-12. TP-22 was excavated approximately 40 feet south of TP-12. No noticeable sheen, staining, or odor was observed in either of these test pits. A sample collected from TP-21 was analyzed for TPH as diesel, SVOCs, and PCBs and a sample collected from TP-22 was analyzed for TPH as diesel. None of the analytes detected exceeded regulatory standards.

Groundwater was encountered on the Subject Property from 8.5 to 18 feet below grade. The approximate direction of groundwater flow is to the southeast, similar to previous work conducted at the Subject Property (Landau Associates, Inc., 1998). Field observations of potential contamination (odor, sheen, discoloration) were not observed during groundwater sampling. A sheen of potential contamination was observed on groundwater during the excavation of TP-18. Groundwater was not encountered in adjacent test pits (TP-10, TP-19, and TP-20); however, a sheen was observed on silts and gravels in TP-10 and TP-19. Petroleum contamination appears to extend to the water table and at an approximate 60-foot radius from TP-10. Floating product, however, does not appear to be a concern at this location.

5.2 GROUNDWATER SAMPLING

Groundwater samples from six monitoring wells were collected and submitted for analytical laboratory analysis following sampling in February 2008. Additional samples were collected and submitted for analytical analysis following the installation and sampling of MW-9A in March 2008. Groundwater data that exceed cleanup levels are presented in Table 5-2. A summary of groundwater data is provided in Appendix F. The laboratory reports, chain-of-custody documentation, and Parametrix data validation are presented in Appendix G. The results are summarized below:

- Petroleum hydrocarbons as diesel and motor oil were not detected in any of the groundwater samples submitted for analysis.
- One or more VOCs were detected in MW-7, MW-7D, and MW-8 samples submitted for analysis in February 2008.

Table 5-2. Summary of Groundwater Data Exceedances*, Subject Property

Analyte	MCL	MTCA A	MTCA B carc.	MTCA B non-carc.	MTCA C carc.	MTCA C non-carc.	MW-1	MW-5	MW-6	MW-7	MW-7D*	MW-8	MW-9A	MW-10
Total Iron (mg/L)	0.3						1.92	7.33	26.2	33.6	35.1	11.5	96.8	8.84
Total Manganese (mg/L)	0.05			2.2		4.9	0.247	0.863	2.38	2.26	2.36	2.24	3.24	4.79
Dissolved Iron (mg/L)	0.3							7.03	27.5	37.5	37.7	12.2		8.34
Dissolved Manganese (mg/L)	0.05			2.2		4.9		0.861	2.52	2.52	2.53	2.34	0.872	4.89
Vinyl Chloride (µg/L)	2	0.2	0.0292	24	0.29	53				0.060	0.063	0.034		

Note: N/A = No field measurement

* = Groundwater exceedances are from the February and March 2008 sampling events. No exceedances exist for the limited August 2008 sampling event.

** = Field Duplicate (MW-7D is field duplicate of MW-7)

Blank spaces indicate that the sample was analyzed for the analyte but was below regulatory standards

- Vinyl chloride exceeded the MTCA Method B carcinogenic cleanup level of 0.0292 µg/L in MW-7 at 0.060 µg/L, its duplicate MW-7D at 0.063 µg/L, and MW-8 at 0.034 µg/L. In August 2008, vinyl chloride was not detected at the reporting limit of 0.020 µg/L in MW-7. It was detected, though below the MTCA Method B carcinogenic cleanup level, at 0.027 and 0.028 µg/L in MW-8 and its duplicate, respectively.
- Chloroform was the only VOC detected in MW-9A for both the March and August 2008 sampling events; however, it was detected below regulatory standards. In February 2008, MW-9A was analyzed for vinyl chloride at only the higher reporting limit. In August 2008, it was analyzed using the lower reporting limit of 0.020 µg/L. No vinyl chloride was detected at that level in MW-9A. No VOCs were detected in MW-1, MW-5, MW-6, or MW-10.
- No PCBs were detected during analysis.
- One SVOC was detected in one of the four groundwater samples, but the concentration did not exceed cleanup levels.
- All of the samples submitted for analysis of total iron exceeded the secondary MCL of 0.3 mg/L. Six of the samples submitted for analysis of total manganese exceeded the MTCA B non-carcinogenic cleanup level of 2.2 mg/L, while the other two exceeded the secondary MCL of 0.05 mg/L.
- Six of the eight samples submitted for analysis of dissolved iron exceeded the secondary MCL. Five of the eight samples submitted for analysis of dissolved manganese exceeded the MTCA B non-carcinogenic cleanup level, while two others exceeded the secondary MCL. Dissolved iron and manganese were not detected in MW-1.
- Groundwater samples from upgradient wells (MW-1, MW-9A) have relatively high iron and manganese concentrations (compared to MCLs), indicating that background groundwater quality is elevated with respect to these two metals.

5.3 SURFACE WATER RESULTS

Surface water samples from five ponds and one duplicate were submitted for analytical testing in February 2008. Surface water data was compared to both surface water standards and groundwater standards because surface water on the Subject Property appears to drain to groundwater. Surface data that exceed cleanup levels are presented in Table 5-3. A summary of surface water data is provided in Appendix F. The laboratory reports, chain-of-custody documentation, and Parametrix data validation are presented in Appendix G. The only analyte that exceeded surface water regulatory standards was bis(2-Ethylhexyl)phthalate in KILN2-W (MTCA Method B carcinogenic cleanup level for surface water is 3.6 µg/L), which also exceeded the groundwater regulatory standards. The results compared to groundwater regulatory standards are summarized below:

- Petroleum hydrocarbons as diesel and motor oil were detected in five of the six surface water samples submitted for analysis. EVP-W, EVP-WD, KILN1-W, REC-W, and STL-W all exceeded the MTCA Method A cleanup level for diesel-range hydrocarbons of 0.5 mg/L, with the exception of KILN1-W for diesel.
- Two VOCs were detected in both surface water samples submitted for analysis of VOCs. None exceeded regulatory standards

Table 5-3. Summary of Surface Water Data Exceedances, Subject Property

Analyte	MCL	MTCA A	MTCA B carc.	MTCA B non-carc.	MTCA C carc.	MTCA C non-carc.	EVP-W	EVP-WD	KILN1-W	KILN2-W	REC-W	STL-W
Diesel (mg/L)		0.5					1.3	1.3			1.4	2.6
Motor Oil (mg/L)		0.5					2.1	1.8	0.98		1.1	2.3
Total Iron (mg/L)	0.3						0.39	0.45	4.29	0.90	9.15	7.95
Total Manganese (mg/L)	0.05			2.2		4.9			0.445	0.114	1.08	0.631
Dissolved Iron (mg/L)	0.3										0.50	2.93
Dissolved Manganese (mg/L)	0.05			2.2		4.9			0.098		0.807	0.581
bis(2-Ethylhexyl) phthalate (µg/L)	6		6.3	320	63	700				35*	N/A	N/A

Note: N/A = Not analyzed

Blank spaces indicate that the sample was analyzed for the analyte but was below regulatory standards

* = Regulatory standards are for groundwater; only analyte that exceeded surface water standards is bis(2-Ethylhexyl)phthalate for KILN2-W (MTCA B carcinogenic = 3.6 µg/L)

- No PCBs were detected during analysis.
- One or more SVOCs were detected in two of the four surface water samples submitted for analysis of SVOCs. Bis(2-Ethylhexyl)phthalate exceeded the MTCA Method B carcinogenic cleanup level of 6.3 µg/L in KILN2-W.
- All of the samples submitted for analysis of total iron exceeded the secondary MCL of 0.3 µg/L. Two of the six samples submitted for analysis of dissolved iron exceeded the secondary MCL.
- Four of the six samples submitted for analysis of total manganese exceeded the secondary MCL of 0.05 µg/L. Three of the six samples submitted for analysis of dissolved manganese exceeded the secondary MCL.

5.4 SURFACE SOIL RESULTS

Nine surface soil samples were submitted for analytical testing in March 2008. Surface soil data that exceed cleanup levels are presented in Table 5-4. A summary of surface soil data is provided in Appendix F. The laboratory reports, chain-of-custody documentation, and Parametrix data validation are presented in Appendix G. The results are summarized below:

- Petroleum hydrocarbons as diesel and motor oil were detected in all of the soil samples submitted for analysis. One of these samples, SS-1-2, exceeded the MTCA Method A cleanup level for diesel- and motor oil-range hydrocarbons of 2,000 mg/kg.
- VOCs were detected in both of the soil samples submitted for VOC analysis. No VOCs detected were above MTCA cleanup levels, except for benzene in the FLY ASH sample, which contained 160 µg/kg compared to the MTCA A cleanup level of 30 µg/kg.
- No PCBs were detected during analysis.
- SVOCs were detected in five of the eight soil samples submitted for SVOC analysis. Three of the samples (FLY ASH, SS-3-2, and SS-4-1.5) had SVOCs above MTCA Method A or B carcinogenic cleanup levels.
- Cadmium exceeded MTCA Method A cleanup levels in the FLY ASH sample. Chromium exceeded MTCA Method A cleanup levels in the BOILER DRAIN, SS-1-2, SS-3-2, SS-4-1.5, and SS-5-2 samples, however it is within the range of background concentrations for the Yakima Basin (Ecology 1994).

Table 5-4. Summary of Surface Soil Data Exceedances, Subject Property

Analyte	MTCA A	MTCA B carc.	MTCA B non-carc.	MTCA C carc.	MTCA C non-carc.	Back- ground	Boiler Drain	Fly Ash	SS-1-2	SS-3-2	SS-4-1.5	SS-5-2
Diesel (mg/kg)	2,000								2,800			
Motor Oil (mg/kg)	2,000								19,000			
Benzene (µg/kg)	30	18,200	320,000	2,400,000	14,000,000			160				
Cadmium (mg/kg)	2		80		3,500	0.155-1.32		2.6				
Chromium (mg/kg)	19		240		11,000	2.55-110.3	28		20	26	29.8	20.1
Naphthalene (µg/kg)	5,000		1,600,000		70,000,000			8,700				
Benzo(a)anthracene (µg/kg)		140								290		
Chrysene (µg/kg)		140								350		
Benzo(b)fluoranthene (µg/kg)		140								350	220	
Benzo(k)fluoranthene (µg/kg)		140								470	280	
Benzo(a)pyrene (µg/kg)	100	140		18,000						530	180	
Indeno(1,2,3-cd)pyrene (µg/kg)		140								280	260	

Note: N/A = Not analyzed

Blank spaces indicate that the sample was analyzed for the analyte but was below regulatory standards

5.5 SUBSURFACE SOIL RESULTS

Thirty-two subsurface soil samples and two duplicates were submitted for analytical testing in February, March, April, and May 2008. Subsurface soil data that exceed cleanup levels are presented in Table 5-5. A summary of subsurface data is provided in Appendix F. The laboratory reports, chain-of-custody documentation, and Parametrix data validation are presented in Appendix G. The results are summarized below:

- Petroleum hydrocarbons as diesel and motor oil were detected in 26 of the 32 soil samples submitted for analysis. Eight of these samples exceeded the MTCA Method A cleanup level for diesel- or motor oil-range hydrocarbons of 2,000 mg/kg.
- One or more VOCs were detected in all eight of the soil samples submitted for VOC analysis. No VOCs detected were above MTCA cleanup levels, except for benzene in sample B-4D-13, which contained 46 µg/kg compared to the MTCA A cleanup level of 30 µg/kg. B-4-13 was non-detect at a reporting limit of 45 µg/kg. It is not unusual for the analytical results of field duplicates, particularly of soil samples that are not homogeneous, to vary from the results of the original sample. The concentration of benzene in the B-4-13 original and duplicate sample is close to the detection limit of 45 µg/kg, causing this discrepancy between detect and non-detect. However, based on the detection of benzene in B-4D-13, the sample is likely over the MTCA A cleanup level, which is less than the detection limit.
- No PCBs were detected during analysis.
- SVOCs were detected in nine of the 21 soil samples submitted for SVOC analysis. No SVOCs detected were above MTCA cleanup levels.
- All 18 samples analyzed for metals were below MTCA cleanup levels.

5.6 METHANE RESULTS

During the methane surveys, methane, carbon dioxide, and oxygen concentrations were measured, as well as pressure in the first and last surveys. The flammable range of methane is 5 percent (lower explosive limit) to 15 percent (upper explosive limit) by volume in air. Landfill regulatory standards relating to methane apply to migration off the property, concentrations within on-site buildings, and surface-level concentrations. No monitoring wells or gas probes are located within buildings; however, the proximity of GP-3 to the plywood plant suggests that methane levels may be a concern in that building. Surface-level concentrations (measured by the bar-hole method) were not identified on the Subject Property.

Results of the February 5 through 7, 2008, methane surveys are presented in Table 5-6. Measurements were taken when the parameters had stabilized. Methane was not detected in any of the wells included in the survey.

Table 5-5. Summary of Subsurface Soil Data Exceedances, Subject Property

Analyte	MTCA A	MTCA B carc.	MTCA B non-carc.	MTCA C carc.	MTCA C non-carc.	Back- ground	B-3-8.5	B-4D-13	B-9-12	TP-8-2	TP-10-8	TP-10-13	TP-12-13	TP-12D-13	TP-16-2	TP-17-2.5	TP-17-3.5
Diesel (mg/kg)	2,000										6,300 J	2,400 J	7,200 J	3,600 J	2,900		2,000
Motor Oil (mg/kg)	2,000						15,000				57,000 J	19,000 J			9,300	3,600	4,200
Gasoline (mg/kg)	100												260	320	N/A	N/A	N/A
Benzene (µg/kg)	30	18200	320000	320,000	2,400,000			46							N/A	N/A	N/A
)																	

Note: N/A = Not analyzed

Blank spaces indicate that the sample was analyzed for the analyte but was below regulatory standards

Table 5-6. Summary of February 5-7, 2008, Methane Survey Results

Well ID	Pressure	CH ₄ (%)	CO ₂ (%)	O ₂ (%)
MW-1	1.2	0	0.2	18.3
MW-5	1.0	0	0.3	17.1
MW-6	1.0	0	4.7	12.4
MW-7	1.0	0	1.8	12.4
MW-8	1.3	0	2.6	11.6
MW-9	1.4	0	0.5	16.8
MW-10	0.2	0	1.9	15.2

CH₄ = Methane

CO₂ = Carbon Dioxide

O₂ = Oxygen

Pressure measured in inches of water column (27.71 inches of water = 1 pound per square inch)

Note: Concentrations are in percent by volume.

Results of the March 5, 2008, methane survey are presented in Table 5-7. Measurements were generally taken at 1, 2, 3, 5, and 10 minutes. Methane was detected in two of the gas probes (GP-1 and GP-3).

Table 5-7. Summary of March 5, 2008, Methane Survey Results

Well ID	Minutes	CH ₄ (%)	CO ₂ (%)	O ₂ (%)
GP-1	0.5	12.6	11.7	9.7
	1	13.8	13.6	5.8
	1.5	16.9	17.5	3.1
	2	21.4	22.5	0.2
	3	22.1	22.9	0.0
	5	22.2	23.0	0.0
GP-2	10	23.9	23.7	0.0
	1	0.0	2.9	15.3
	2	0.0	4.1	12.6
	4	0.0	4.2	12.3
	5	0.0	4.2	12.3
GP-3	10	0.0	4.1	12.1
	1	4.7	0.0	14.1
	2	14.8	3.9	2.5
	3	16.0	6.6	1.3
	5	16.5	7.1	0.9
MW-5	10	17.2	7.9	0.6
	1	0.0	1.8	13.8
	2	0.0	2.0	13.0
	3	0.0	2.3	12.1
	5	0.0	2.7	10.1
MW-6	10	0.0	4.0	3.7
	1	0.0	5.5	11.1
	2	0.0	5.7	10.6
	3	0.0	5.8	10.5
	5	0.0	6.0	10.1
MW-7	10	0.0	6.8	6.9
	1	0.0	1.7	17.4
	2	0.0	1.7	17.4
	3	0.0	1.7	17.4
	5	0.0	1.7	17.5
MW-7	10	0.0	1.8	17.4

Table 5-7. Summary of March 5, 2008, Methane Survey Results (continued)

Well ID	Minutes	CH ₄ (%)	CO ₂ (%)	O ₂ (%)
MW-8	1	0.0	4.2	9.8
	2	0.0	4.1	9.7
	3	0.0	4.1	9.7
	5	0.0	4.1	9.7
	10	0.0	4.2	9.3
MW-9	1	0.0	0.3	20.9
	2	0.0	0.3	20.9
	3	0.0	0.3	20.9
	5	0.0	0.4	20.9
	10	0.0	0.4	20.9
MW-9A	1	0.0	0.0	21.2
	2	0.0	0.0	21.2
	3	0.0	0.0	21.3
	5	0.0	0.0	21.3
	10	0.0	0.0	21.4
MW-10	1	0.0	2.8	15.4
	2	0.0	3.4	14.3
	3	0.0	3.5	14.2
	5	0.0	3.6	14.0
	10	0.0	3.9	13.3

CH₄ = Methane
 CO₂ = Carbon Dioxide
 O₂ = Oxygen
 Note: Concentrations are in percent by volume.

Results of the March 25, 2008, methane and bar-hole survey are presented in Table 5-8. Measurements were taken when the parameters had stabilized. Methane was detected in two of the gas probes (GP-1 and GP-3). The bar-hole locations (BH-1, BH-2, and BH-3) were located approximately 3.8 feet east, 150 feet north, and 75 feet west of GP-1. The bar-hole measurements were taken around 2 feet below ground surface (bgs).

Table 5-8. Summary of March 25, 2008, Methane and Bar-Hole Survey Results

Well ID	Pressure	CH ₄ (%)	CO ₂ (%)	O ₂ (%)
GP-1	0	14.5	16.6	5.6
GP-2	0	0	5	12
GP-3	0	25.6	10.9	0
MW-9A	0	0	0	21
BH-1	0	0	1.9	18
BH-2	0	0	0.3	20.4
BH-3	0	0	0.1	20.5

BH = Bar-Hole
 CH₄ = Methane
 CO₂ = Carbon Dioxide
 O₂ = Oxygen
 Pressure measured in inches of water column (27.71 inches of water = 1 pound per square inch)
 Note: Concentrations are in percent by volume.

5.7 LIMITED HAZARDOUS MATERIALS SURVEY RESULTS

A hazardous materials survey was conducted of the two boiler house structures on April 8 and 9, 2008, by a Parametrix certified Asbestos Hazard Emergency Response Act (AHERA) building inspector. At the time of this hazardous materials survey, asbestos and lead-based paint were identified in the Hog Fuel Boiler House but not in the Natural Gas Boiler House. PCBs and other potentially hazardous materials were identified in both buildings. A separate report has been prepared to detail these findings and is provided in Appendix B.

6. CONCLUSIONS

This section presents the conclusions drawn from this Phase II Environment Site Assessment of the Subject Property.

6.1 GROUNDWATER

Groundwater was sampled upgradient (MW-1, MW-9A) and downgradient (MW-5, MW-6, MW-7, MW-8) of the Subject Property, as well as at more central locations on the property (MW-5, MW-10). The only parameters that exceeded regulatory standards (MCLs, MTCA) were iron, manganese, and vinyl chloride. TPH-Dx, TPH-Gx, SVOCs, PCBs, and other metals were either not detected or were below regulatory standards. Oil sheen was observed on the water table in TP-18, but was not visible in adjacent test pits TP-19, TP-20, and TP-21. Hydrocarbons were not detected in groundwater samples collected from downgradient wells MW-7 and MW-8. A discussion of the groundwater results is presented below.

6.1.1 Iron and Manganese

The MCLs for iron and manganese (0.3 mg/L, 0.05 mg/L) are secondary criteria based on non-health based factors such as taste and color. The secondary MCLs for both of these parameters were exceeded in the upgradient (MW-1, MW-9A) and downgradient wells (MW-5, MW-6, MW-7, MW-8, MW-10). The MTCA B value of 2.2 mg/L for manganese is health based and was exceeded in all wells except MW-1 and MW-5.

It appears there are naturally high concentrations of iron and manganese in groundwater, since they are both relatively high in the upgradient well. The upgradient well does not appear to be influenced by the municipal landfill as evidenced by the lack of landfill gas in the well and no detection of vinyl chloride in the groundwater.

6.1.2 Vinyl Chloride

Vinyl chloride was originally planned to be analyzed using the lower method 8260B SIM to achieve a detection limit (0.020 µg/L) below the MTCA B carcinogenic cleanup level. Original sampling of MW-1, MW-5, MW-6, MW-7, MW-8, and MW-10 occurred in February 2008 using this analysis. MW-9A, which was installed following the February 2008 sampling event, was not analyzed using the SIM method when it was sampled in March 2008. A subsequent sampling event in August 2008 was conducted to remedy this discrepancy in reporting limits. MW-7, MW-8 (and its field duplicate), and MW-9A were sampled and analyzed for vinyl chloride at the lower reporting limit. During this event, vinyl chloride was not detected in MW-7 and MW-9A. It was detected in MW-8 and its duplicate at 0.027 and 0.028 µg/L, respectively. These values are below the MTCA B carcinogenic cleanup value of 0.0292 µg/L.

Vinyl chloride is a chlorinated solvent that is used in the chemical manufacturing industry. It is also a common chemical found in subsurface gas and groundwater associated with landfills. Vinyl chloride is typically formed as a breakdown product from chlorinated ethenes (PCE, TCE, DCE) and ethanes (TCA). Based on this information and the fact that vinyl chloride was only detected in the wells downgradient of the former municipal landfill, the vinyl chloride detected in MW-7 and MW-8 above the MTCA B value of 0.0292 µg/L, was likely due to influence from the municipal landfill.

6.1.3 Hydrocarbons

Oil sheen was observed on the water table in TP-18, but was not detected in adjacent test pits, indicating that it is likely limited in extent. Floating oil and dissolved hydrocarbons were not detected in groundwater monitoring wells, including downgradient wells MW-5, MW-6, MW-7, and MW-8.

6.2 SURFACE WATER

Diesel and motor oil were detected in all surface water samples at concentrations exceeding MTCA Method A cleanup levels, except the sample collected from the northern kiln pond. These concentrations appear to be either related to contaminated stormwater runoff entering the ponds or related to contaminated sediments in the ponds. The source of the petroleum contamination in the ponds requires further investigation. It appears that the petroleum contamination in the surface water ponds is not affecting groundwater based upon the lack of detection of diesel and motor oil in groundwater samples. However, for redevelopment purposes, the surface water in the ponds would need to be drained and approximately 300 cubic yards of pond sediment would be removed and disposed of.

6.3 SURFACE AND SUBSURFACE SOIL

Petroleum-contaminated soil above MTCA cleanup levels was identified at the following locations:

- Subsurface soil collected from test pits (TP-16, TP-17) in the north-central portion of the wood debris landfill. These soil samples were collected between 2 and 3.5 feet bgs. TP-16 was primarily composed of bark debris fill. No odor or staining was observed at the depth of the sample. TP-17 was also primarily composed of bark and wood debris fill. At the depth of the sample, burned wood and a chemical odor were observed. Nearby test pits (TP-14, TP-15) were not analyzed; however, no staining or odor was observed.
- Subsurface soil collected from TP-10 located near dry well. Concentrations of diesel and motor oil exceeding MTCA Method A cleanup levels were detected in samples collected from 8 and 13 feet bgs. Additional test pits (TP-18 to TP-20) excavated in this vicinity suggest that petroleum contamination extends to the water table at a depth of 20 feet and an approximate radius around TP-10 of 60 feet.
- Subsurface soil collected from TP-12 near the eastern pump island. Concentrations of diesel, motor oil, and gasoline exceeding MTCA Method A cleanup levels were detected in a sample collected at 13 feet bgs. Additional test pits (TP-21 and TP-22) excavated in this vicinity suggest that petroleum contamination is limited in extent (likely less than a 25-foot radius from TP-12).
- Soil collected from borings B-3, located in the northeast corner of the plywood plant, and B-4, outside the northeast corner of the plywood plant. Concentrations of motor oil exceeding MTCA Method A cleanup levels were detected in a sample from B-3 collected at 8.5 feet bgs. Concentrations of benzene exceeding MTCA Method A cleanup levels were detected in a sample from B-4 collected at 13 bgs.
- Surface soil collected from SS-1 located adjacent to the service pit just north of the oil house. Diesel and motor oil concentrations exceeded MTCA Method A cleanup levels. The vertical extent of the petroleum contamination at this location is unknown; however, it is likely limited. Diesel and motor oil were not detected in borings B-6 and B-7, southwest of SS-1.

- Surface soil samples collected adjacent to the boiler houses. These samples contained concentrations of cPAHs exceeding MTCA Method B cleanup levels. The vertical extent of contamination is unknown.
- Chromium detected at various locations at concentrations slightly exceeding the MTCA Method A cleanup level. The chromium appears to be related to background and not the results of site operations since the concentration in soil samples are fairly consistent site-wide. In addition, the chromium concentrations are below the Ecology-determined background levels for the Yakima Basin (Ecology 1994).
- The surface sample collected from the fly ash piles. The sample contained concentrations of benzene, naphthalene, and cadmium in excess of MTCA Method A cleanup levels. Estimated volume of fly ash piles is 200 cubic yards.
- Potential contamination underneath and around Plywood Plant. Due to overhead obstructions and other difficulties with the drill rig, proper characterization of soil and potential contamination beneath the Plywood Plant could not be completed. There is a possibility that there is contamination in this portion of the Subject Property. Cleanup would likely require the abandonment of wells MW-9 and MW-9A.

Contaminated soil would need to be removed and disposed of at an appropriate, licensed disposal facility. It is estimated that approximately 17,100 cubic yards of backfill will be required for redevelopment purposes.

6.4 METHANE EXTENT AND SOURCE

Methane was detected at two locations; GP-1 located on the north edge of the southern log deck, and GP-3 located on the west side of the former municipal landfill adjacent to the former plywood plant. This methane is likely due to degradation of the municipal landfill contents and the wood debris by bacterial action. Other monitoring points, including the groundwater monitoring wells, an additional gas probe, and the limited bar-hole survey, did not identify methane. The detection of methane at 17.2% by volume near the plywood plant is a potential exceedance of the WAC 173-304 landfill regulations, which restrict methane concentrations in on-site structures at 25% of the lower explosive limit (which is equal to 1.25% by volume). Additional methane measurements in on-site structures would be required to assess if the regulatory concentration limit is consistently exceeded.

6.5 LIMITED HAZARDOUS MATERIAL SURVEY

The following are the results of the limited hazardous materials survey conducted at the site:

- Most asbestos-containing material (ACM) is in fair to poor condition in the Hog Fuel Boiler House except for the vinyl tile located in the bathroom, which is in good condition.
- The Asbestos Management Plan (reference) lacks all of the maintenance records, making it difficult to gather accurate information on exterior and underground piping runs.
- Both the Hog Fuel Boiler House and the Natural Gas House contain hazardous materials.
- The document review performed on the Boiler 4 drawings secured at the site indicates ACM that was not discovered during the historic or the recent survey. These materials may have been concealed at the time of both surveys.

- Underground transite (asbestos-cement) sewer pipes are known to exist on the site (reference). Underground water pipes running through the site may also be composed of transite.
- Some of the building components sampled for total lead analysis were found to contain high concentrations of lead.
- A great amount of building materials may be suitable for salvage or recycling, including metal, concrete, PCB and non-PCB containing ballasts, and fluorescent light tubes.
- An utilador suspected of containing possible ACM appears to be running from the Hog Fuel Boiler House. The exact location of this utilador is unknown.

7. OPINION OF PROBABLE COST AND RECOMMENDATIONS FOR FURTHER ACTION

The following sections provide recommendations for addressing the site environmental issues identified in Section 6.0. An opinion of probable cost with assumptions is presented in Appendix H.

The opinion of probable cost presented in Appendix H has been prepared for guidance in project evaluation and implementation from the information available at the time the opinion was prepared. Sources of information included, but were not limited to:

- Communications with vendors and contractors
- RS Means 2008, Heavy Construction Cost Data, 22nd Annual Edition.
- Recent cost estimates and bid tabulations related to similar projects
- Professional knowledge.

The final costs of the project will depend on actual labor and material costs, competitive market conditions, actual site conditions, final project scope, implementation schedule, continuity of personnel and engineering, and other variable factors. As a result, the final project costs will vary from the opinion of probable cost presented in this document. Because of these factors, project feasibility, benefit/cost ratios, risks, and capital needs should be carefully reviewed prior to making specific financial decisions or establishing project budgets to help ensure proper project evaluation.

This budget-level opinion of probable cost has a confidence range of from +50% to -30%, which is based on current EPA guidance for preparing estimates of costs for remedial action alternatives during the feasibility study process. Estimating at final design will be closer to +15% to -10%, and construction contingency funds can be reduced.

7.1 GROUNDWATER

In February 2008, vinyl chloride was measured above the MTCA B cleanup level in the wells downgradient of the municipal landfill. The levels in these wells were slightly below the cleanup level when additional sampling was conducted in August 2008. It is suggested that continued monitoring of these wells (MW-7, MW-8) be conducted in order to protect human health and the environment (including the downgradient water supply wells identified in Section 3.1).

Floating oil was detected on the water table in TP-18, but appeared to be limited in extent. It is suggested that 3 monitoring wells be installed downgradient of this area to monitor for hydrocarbons. If oil is present, it could be removed with skimmers.

7.2 SURFACE WATER

The source of petroleum contamination detected in surface water is unknown, but could potentially be associated with sediment in the ponds. It is suggested that the surface water and sediment be removed from the ponds as part of Subject Property cleanup.

7.3 SOIL

Remedial action is recommended for petroleum and other contaminants in soil that exceed MTCA screening levels in the following areas:

- At wood debris landfill in the area of TP-16 and TP-17.
- Near the sawmills in the area of TP-10 and TP-12.

- In and adjacent to the northeast corner of the plywood plant in the area of B-3 and B-4.
- Adjacent to the service pit at SS-1 location. In the fly ash piles.
- In the boiler houses at the location of SS-3 and SS-4.

Remedial action could include excavation and disposal of contaminated soil, capping the material in-place, or a combination of both. Based on the results of groundwater sampling, it appears that little to no contamination has migrated from soil to groundwater.

7.4 METHANE

Methane levels between the lower and upper explosive limits were detected in the subsurface of the Subject Property two sampling locations (GP-1, GP-3) during the methane surveys. Methane is a potential explosive hazard inside buildings on the Subject Property. A mitigation program is recommended and should be instituted during construction and/or as part of final site redevelopment in areas on or adjacent to the former municipal landfill. This could include, but not limited to, methane monitoring during excavation and other intrusive activities, placement of vapor barriers, and venting of methane through porous subgrade placed beneath the vapor barriers.

The source of the methane is unknown; however, it could be from the former municipal landfill and/or the wood debris on the Subject Property and municipal landfill site. One remedial alternative would be to remove the wood debris down to the native soil level. This alternative is included in the opinion of probable cost provided in Appendix H. The potential for methane production from wood debris is based on Parametrix's familiarity with similar sites without municipal landfills contributing to gas production. Parametrix performed Phase I, II, and III site assessment investigations at the Simpson Tacoma Kraft Company Site in Tacoma, Washington, between 1994 and 1997. The site began operations as a lumber mill around the turn of the last century. The site contained log ponds, saw mills, drying kilns, and support structures. The ponds were eventually drained and filled in with wood debris. Sawmill operations stopped in the 1980s, and the site was converted to a wood chipping operation. Methane was present at the site in excess of 5% by volume, and this was determined to be a byproduct of decomposing wood debris (Parametrix 1994).

7.5 HAZARDOUS MATERIALS

Based on the result of the hazardous materials survey conducted at the site, the following recommendations for further action should be considered. The needs for completing these tasks will be dependant on future site use, especially if demolition of structures is required.

- At a minimum, a supplemental sampling event should be performed to accomplish the following:
 - verify the findings of the Walkenhauer & Associates survey
 - verify the materials identified on the Boiler 4 drawings
 - confirm results of the more recent survey
 - include the electrical room in the asbestos survey
 - accurately estimate abatement costs
- Because of the lack of verifiable data in the Walkenhauer & Associates survey, surveying all currently standing buildings, structures, sheds and exterior piping runs prior to demolition is recommended.

- Perform a geophysical survey around the perimeter of the Hog Fuel Boiler House to locate the suspected utilidor.
- A consultation should be made with the local water and sewer authority to evaluate the location, extent, and construction of underground utilities on the site.
- Locate asbestos management plan maintenance records.
- Task asbestos abatement contractor with both abatement of ACM and clean up of existing presumed asbestos containing debris described in Section 4.2 of Appendix B.
- Remove all identified hazardous materials is required prior to demolition, except for LBP. Abatement of LBP is not required by federal, state, or local regulatory agencies, however, this report should be provided to contractors working at the site to satisfy WAC 296-62-07721 Communication of Hazard to Employees.
- Perform Toxicity Characteristic Leaching Procedure (TCLP) sampling for waste characterization to determine whether demolition debris may be disposed of as general waste or hazardous waste. One sample is required for each building demolished. The sample should be composed of materials specifically going to a landfill and should not include materials for salvage or recycling.
- Secure a demolition contractor that will employ salvage or recycling practices to save cost for disposal.
- Require the demolition or abatement contractor to inspect all fluorescent light ballasts prior to disposal. The presence of more than 16 PCB-containing ballasts requires containerization, disposal, and hazardous waste manifest documentation in accordance with EPA requirements.

8. REFERENCES

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- URS. 2003. Phase I Environmental Site Assessment—Boise Building Solutions Sawmill and Plywood Mill, Yakima, Washington. Prepared for Boise Corp., November 3.

9. LIMITATIONS AND EXCEPTIONS OF ASSESSMENT

The potential for environmental liability associated with the release or threatened release of hazardous substances, and compliance with federal and state environmental laws, has become a major concern with many public agencies and private companies considering property transactions. Federal and state regulations do not specify the amount of effort necessary to determine the environmental status of real property. However, if brought to litigation, the court will consider the specialized knowledge or experience of the defendant, the relationship of the purchase price to the value of the property, and the ability to detect such contamination by appropriate inspection.

Parametrix, Inc. performed this Phase II SA in accordance with the generally accepted standards of care that exist in the State of Washington at the time of the study. Judgments leading to conclusions and recommendations are made generally, with an incomplete knowledge of the subsurface and former conditions applicable to the Subject Property and adjacent properties.

More extensive studies may reduce the uncertainties associated with this assessment. The investigation was conducted to identify areas of environmental concern that may inhibit redevelopment of the property, and was designed based on the professional judgment of the Parametrix project team. Because Subject Property activities and regulations beyond our control could change at any time after the completion of our field investigation, our observations, findings, and opinions can be considered valid only as of the date the field work was completed for this report.

The data and samples from any given test location indicate conditions that apply only at that particular location, and such conditions may not necessarily apply to the general Subject Property as a whole. Therefore, Parametrix cannot and will not provide guarantees, certifications or warranties that the property is free of environment impairment. The extent of testing and data collection directly affects the statistical confidence level of the work performed. As a practical matter, to reach or even approach a 100 percent statistical confidence level would be prohibitively expensive.

APPENDIX A

Summary of SAP/QAPP Activities

1. FIELD INVESTIGATION

1.1 GEOPHYSICAL STUDY

A geophysical survey will be completed using a magnetometer and ground penetrating radar (GPR). The objective of this survey will be to identify and map the location of existing subsurface features, USTs, product lines, and utilities. The results of the geophysical survey will be used to determine locations of subsurface obstructions and clear areas for test pits and drilling.

1.2 FIELD SAMPLING

Field sampling will include groundwater and surface water monitoring, soil sampling, and a methane survey. The proposed locations of these samples and the purpose of each are presented in Figures 3 through 6. The rationale for sample locations is listed in Table 2-1.

1.2.1 Groundwater and Surface Water Monitoring and Methods

The purpose of the monitoring of groundwater and surface water on the Site is to evaluate potential contamination from activities related to the Site's history and to determine if measured concentrations exceed Washington State's Model Toxics Control Act (MTCA) cleanup levels. Groundwater monitoring will be conducted at the nine present monitoring wells on the Site (MW-1 and MW-3 through MW-10). In addition to sampling these nine monitoring wells, surface water samples will be taken from five of the ponds currently present on the Site, as well as two samples along a drainage ditch from the boiler house to the kiln ponds.

The parameters for testing ground- and surface water are listed below:

- Total petroleum hydrocarbons (gasoline and diesel range),
- Volatile organic compounds (VOCs),
- Semi-volatile organic compounds (SVOCs),
- Dissolved metals,
- Total metals,
- Alkalinity,
- Chloride,
- Sulfate,
- Ammonia,
- Nitrate,
- Total organic carbon,
- Total dissolved solids,
- PCBs, and
- Extra volume for additional testing.

One groundwater sample will be collected from each location as described below:

- Groundwater samples from monitoring wells will be collected using a submersible pump in accordance with the Parametrix Standard Operating Procedure (SOP) for Low-Flow Groundwater Sampling and Purging (Appendix A).
- Existing wells will be monitored for combustible gas, carbon monoxide, nitrogen, oxygen, and pressure.
- Initial water levels will be measured from the reference point to the nearest 0.01 foot. These measurements will be reconfirmed and recorded on Groundwater Sampling Field Data Sheets.
- The sampler will perform the following functions: (1) start pumping the well at 200 to 500 milliliters per minute (ml/min) using a submersible pump; (2) adjust the flow rate so that the water level stabilizes (drawdown of 0.3 foot or less); and (3) monitor the water level at intervals of 3 to 5 minutes and record the measurements on the Groundwater Sampling Field Data Sheet.
- Water quality field parameters including pH, temperature, dissolved oxygen, turbidity, oxidation/reduction potential (ORP), and conductivity will be monitored periodically during the purging process.
- When at least three successive readings for these parameters stabilize, purging will be considered complete.
- Samples will be collected using a dedicated discharge hose directly into pre-labeled sample containers at a flow rate between 100 and 250 ml/min and so that drawdown of the water level within the well does not exceed the maximum allowable drawdown of 0.3 foot. All sample containers will be filled with minimal turbulence by allowing the groundwater to flow from the tubing gently down the inside of the container. VOC samples will be collected first, and to ensure there is no headspace, the container will be inverted and tapped. Field-filter samples will be tested for dissolved metals through a 0.45-micron membrane filter immediately before filling the sample containers.

One surface water sample will be collected from each location as described below:

- Surface water samples will be collected according to the Parametrix SOP for Surface Water Sampling (see Appendix A).
- Samples will be collected away from the edge of the pond or drainage ditch, at a minimum of 6 inches below the water surface.
- Field parameters collected during surface water sampling will include temperature, pH, turbidity, ORP, conductivity, and dissolved oxygen.

1.2.2 Soil Sampling

The purpose of the soil sampling on the Site is to evaluate potential contamination from activities related to the Site's history and to determine if measured concentrations exceed MTCA cleanup levels. Soil sampling will be conducted using both test pits and sonic drilling to 15 feet bgs. The selection of sample locations was based upon Site history and locations identified during the two Site visits. SOPs for test pits and soil borings are included in Appendix A. The parameters for testing the soil will include one or more of the following:

- Total petroleum hydrocarbons (gasoline and diesel range),
- VOCs,
- SVOCs,

- Polynuclear aromatic hydrocarbons (PAHs),
- PCBs,
- pH,
- Metals,
- Ethylene dibromide (EDB),
- 1,2-Dichloroethane (EDC),
- Napthalenes,
- Lead, and
- Extra volume for additional testing.

The analyses to be performed on samples from each location are provided in Appendix B.

1.2.2.1 Test Pit Soil Sampling Methods

Up to two soil samples will be collected from each test pit as described below:

- Soil samples will be collected from the base and sidewalls of the excavated test pits. Specific sampling depth will be selected by the Parametrix field geologist based on field conditions. A decontaminated stainless-steel spoon or trowel will be used to collect soil from the excavator bucket derived from a 0.5-foot radius of the designated sampling point.
- Soil samples will be logged by a qualified geologist using the Unified Soil Classification System (USCS). Sampling locations will be measured to the nearest 0.1 foot with reference to a known point and plotted on the site map.

1.2.2.2 Boring Soil Sampling Methods

Up to two soil samples will be collected from each borehole as described below:

- A sonic rig will be used to collect subsurface soil samples. This technique uses sonic technology to drive a 6-inch-diameter barrel to pre-selected depths for collection of soil samples.
- Soil samples will be collected from the 4-inch diameter continuous cores. Soil samples will be logged by a qualified geologist using the USCS.
- Soil samples will be collected using a stainless-steel sampler. During this procedure, the sampler remains sealed by a piston tip at the end of the sample tube while it is pushed or driven to the desired depth. A piston stop-pin at the opposite end of the sampler is removed by means of extension rods inserted into the probe rods, and the sampler is driven to depth. This enables the piston to retract into the sample tube while the sample is collected.
- Samples will be collected in disposable acetate sleeves. After sample collection, the probe rods will be retracted from the hole and the sample will be extruded from the sampler while it remained inside the acetate sleeve. The sleeves and end caps preserve bedding characteristics and soil moisture and can be cut into sections to produce samples from discrete intervals, or cut length-wise to produce composite samples. The soil sample material will be placed directly into labeled sampling containers provided by the analytical laboratory. Additional soil will be placed in a self-sealing bag for in-field headspace analysis.

- If a problem with overhead space for the drill rig occurs in one of the interior boring locations, surface samples will be taken. Soil samples will be collected from shallow depths (less than 1 foot) using hand tools such as a post-hole digger or shovel. Soil samples to be collected for chemical analysis will be collected using a stainless steel trowel and placed directly into labeled sampling containers provided by the analytical laboratory. Additional soil will be placed in a self-sealing bag for in-field headspace analysis.
- If it is determined that the nine existing monitoring wells will not be sufficient to determine groundwater flow direction or characterize potential contamination, up to three of these borings may be converted to additional groundwater monitoring wells.
- Some of the soil borings may also be converted to gas probes, depending on the results of the methane survey described below. The installation of gas probes would only occur after receiving concurrence from Ownership.

1.2.3 Methane Survey

A methane survey will be conducted to determine the migration of methane from the former municipal landfill, and to evaluate the potential presence of methane in the vicinity of the wood waste landfill. In addition to surveying within buildings and existing groundwater wells, soil gas levels will be also measured using either manual or power-driven mechanical methods, whichever is more feasible in the field. A 3/8-inch-diameter hole will be driven into the ground using manual (i.e., slam bar) or power-driven mechanical methods.

If manual methods are considered feasible, the following will occur:

- Soil gas can be measured at specific depths by controlled penetration or the use of a longer bar or bar attachments.
- A 1/4-inch outer-diameter stainless-steel probe is inserted into the hole, which is then sealed around the top of the probe using clean modeling clay.
- The gas contained in the interstitial spaces of the soil is pulled through the probe using an air pump.
- The gas is measured with a four-gas multimeter.

If a power-driven mechanical device (such as a power hammer) is the more feasible way to ascertain the methane levels on the Site, the following will occur:

- With the use of a drill rig, a 1/4-inch outer-diameter stainless-steel probe is inserted into the hole, which is then sealed around the top of the probe using clean modeling clay.
- The gas contained in the interstitial spaces of the soil is pulled through the probe using an air pump.
- The gas is measured with a four-gas multimeter.

1.2.4 Decontamination Procedures for Groundwater, Surface Water, and Soil Sampling Equipment

All instruments and reusable tools used to collect groundwater, surface water, and soil samples will be decontaminated prior to sampling and between each sample in order to minimize cross contamination between samples. The decontamination procedure is outlined below:

- Scrub with non-phosphate detergent.

- Rinse with deionized water.
- Rinse with 0.1N HNO₃ or HCL.
- Rinse with deionized water.
- Rinse with n-propyl alcohol.
- Rinse thoroughly with deionized water before each use.

The decontamination rinse water will be collected and stored on Site in sealed containers.

1.3 SAMPLE MANAGEMENT AND TESTING

Samples will be stored in coolers at 4°C and delivered via Parametrix personnel or commercial carrier under chain-of-custody procedures to the analytical laboratory. Sample chain-of-custody will begin when the sample is collected and will be maintained until final disposal of the sample. Chain-of-custody procedures will be used to maintain and document sample possession. The principal documents are:

- Sample labels
- Field sampling records
- Chain-of-custody forms

Each sample container will be identified with printed labels and a unique and appropriate sample number. Sample labels will include the following information:

- Project identification
- Sample identification
- Analysis request
- Date and time of collection
- Initials of collector

All sampling locations will be recorded in the field notebook. Indelible ink will be used to prepare labels, chain-of-custody forms, and field notes.

1.4 DATA REPORTING

Verbal recommendations regarding the analytical results will be provided within 1 working day of the receipt of sample results from the analytical laboratory. A data report will be provided within 30 days of the receipt of final sample results from the laboratory.

2. QUALITY ASSURANCE PROJECT PLAN

This QAPP establishes the quality assurance (QA) objectives for the Site assessment and characterization investigation. It also establishes the QA organization and procedures to meet the project objectives. This QAPP also presents the procedures for sample handling, sample chain-of-custody, instrument/equipment performance criteria, analytical methods for sample analysis, internal quality control, audits, corrective actions, and data assessment.

The QA procedures described in this section are developed to ensure the project-specified Data Quality Objectives (DQOs) are met and that data generated are representative of the actual conditions found at the Site. The goal of the QA plan is to ensure a reasonable degree of confidence in data generated. QA plans do this through the establishment of a rigorous system of quality and performance checks on data collection, analysis, and reporting activities. In addition, QA plans strengthen the quality of data by requiring appropriate and timely corrective action to document and ensure compliance with established performance and quality criteria.

2.1 PROJECT OBJECTIVES

The following are the objectives of the sampling program as outlined in Section 2:

- Conduct an assessment of Site characteristics and evaluate potential contamination of the Site.
- Conduct a round of groundwater monitoring at the nine monitoring wells (MW-1, MW-3 through MW-10) present throughout the Site.
- Excavate test pits and collect soil samples in areas identified by the Site visits and file reviews as potentially contaminated.
- Drill borings and collect soil samples in areas where test pits are not feasible. Based on the results of the groundwater monitoring and methane survey, some borings may be converted to additional monitoring wells or gas probes.
- Conduct a methane survey.
- Summarize the sampling results in a Site assessment report and provide recommendations for remediation, as appropriate.

2.2 PROGRAM QUALITY ASSURANCE ORGANIZATION AND RESPONSIBILITY

Specific program QA responsibilities are described in Table 3-1.

Table 3-1. Quality Assurance Responsibilities

Personnel	Responsibilities
Kurt Easthouse Project Manager Parametrix	Oversee technical team performance to ensure successful accomplishment of the technical and QA project objectives; review QA needs and approve QA corrective action when necessary.
Lara Linde Project Field Coordinator Parametrix	Ensure that all field sampling and handling procedures are followed and documented and field QA objectives are met; will coordinate and participate in the field sampling activities.
Lara Linde Project QA Officer Parametrix	Direct implementation of QAPP. Provide technical QA assistance, evaluate laboratory data, and perform QA/QC.
Laboratory QA Officer	Ensure that all laboratory QA objectives are met and data deliverables from the laboratory are correctly documented and reported.

2.2.1 Precision

Precision measures the mutual agreement among individual measurements of the same property, usually under prescribed similar conditions. Quality assurance/quality control (QA/QC) sample types that measure precision include field duplicates, matrix spike duplicates (MSDs), and matrix duplicates. The estimate of precision of duplicate measurements is expressed as a relative percent difference (RPD), which is calculated as:

$$RPD = \frac{D_1 - D_2}{(D_1 + D_2) \div 2} \times 100$$

Where: D_1 = First sample value
 D_2 = Second sample value

The RPDs will be routinely calculated and compared with DQOs. All RPDs should be within the limits defined in the United States Environmental Protection Agency (EPA) SW-8260B, SOM01.1, NWTPH-Dx, NWTPH-Gx, or 5035 Methods.

2.2.2 Accuracy

Accuracy is assessed using the results of standard reference material, linear check samples, and matrix spike (MS) analyses. It is normally expressed as a percent recovery, which is calculated as:

$$\text{Percent Recovery} = \frac{(\text{Total Analyte Found} - \text{Analyte Originally Present}) \times 100}{\text{Analyte Added}}$$

The percent recovery will be routinely calculated and checked against DQOs. Percent recoveries should be within the limits defined in the EPA SW-8260B, SOM01.1, NWTPH-Dx, NWTPH-Gx, or 5035 Methods.

2.2.3 Bias

Bias is the systematic or persistent distortion of a measurement process that causes errors in one direction. Bias will be assessed with field and/or laboratory matrix spike samples, similar to the method described for accuracy. Bias measurements are usually carried out with a minimum frequency of 1 in 20, or one per batch of samples analyzed, under the same sampling episode.

2.2.4 Sensitivity

Sensitivity expresses the capability of a method or instrument for meeting prescribed measurement reporting limits. Sensitivity will be assessed by comparing data reporting limits with current regulatory criteria for VOCs and total petroleum hydrocarbons (TPH) in groundwater.

2.2.5 Representativeness

Sample locations and sampling procedures will be chosen to maximize representativeness. A qualitative assessment (based on professional experience and judgment) will be made of sample data representativeness based on a review of sampling records and a QA audit of field activities.

2.2.6 Completeness

The amount of valid data produced will be compared with the total analyses performed to assess the percent of completeness. Completeness will be routinely calculated and compared with the DQOs. The completeness goal for this project is 95 percent.

2.2.7 Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. Sample data will be comparable with other measurement data for similar samples and sample conditions. Comparability of the data will be maintained by using consistent methods and units. The specific analysis parameters, reporting units, applicable methods for analysis, and method detection limits are listed in this QAPP. Actual reporting limits will depend on the sample matrix (necessary dilutions, etc.) and will be reported as defined for the specific samples.

2.3 SAMPLING PROCEDURES AND HANDLING

2.3.1 Sample Collection and Analyses

Soil, groundwater, and surface water samples will be collected at the Site. Selection of sampling locations and objectives is discussed in Sections 1 and 2. Procedures for field sample location, collection of samples, and types of laboratory analyses to be performed are presented in Section 2. A summary of QC samples is shown in Table 3-2. A summary of specifications for containers, holding times, preservation, and handling for soil samples is shown in Table 3-3 and for aqueous samples is shown in Table 3-4.

Table 3-2. Guidelines for Minimum QA/QC Samples for Field Sampling and Laboratory Analysis^a

	Blind Field Duplicate	Field Rinsate Blank	Method Blank	LCS ^b	Matrix Spike
Solid	1 in 20 ^c	1 in 20	1 in 20	1 in 20	1 in 20
Aqueous	1 in 20 ^c	1 in 20	1 in 20	1 in 20	1 in 20

a = EPA 1988

b = LCS = Laboratory Control Sample

c = All frequencies of 1 in 20 indicate 1 per batch, when the batch is less than 20.

Table 3-3. Soil Sample Containers, Preparation, Preservatives, and Holding Times

Analyses	Method	Sample Container	Preservation and Handling	Holding Times
Gasoline Range Organics with BTEX	NWTPH-Gx	2-4 oz cwm	Cool 4°C	14 days
Diesel and Heavier Range Organics	NWTPH-Dx	2-8 oz cwm	Cool 4°C	14 days
Volatile Organic Compounds	8260B	4 oz cwm	Cool 4°C	14 days
Semi-volatile Organic Compounds	8270B	8 oz cwm	Cool 4°C	14 days; ext 40 days
PAHs	8270	2-4 oz cwm	Cool 4°C	14 days; ext 40 days
pH	9040B	4 oz cwm	Cool 4°C	ASAP
PCBs	8082	2-4 oz cwm	Cool 4°C	14 days; ext 40 days
RCRA 8 Metals	6020/7471A	2-4 oz cwm	Cool 4°C	6 months
EDB	8260	2-4 oz cwm	Cool 4°C	14 days
EDC	8260	2-4 oz cwm	Cool 4°C	14 days
MTBE	8260	2-4 oz cwm	Cool 4°C	14 days
Naphthalene	8270	2-4 oz cwm	Cool 4°C	14 days
Lead	6010	2-4 oz cwm	Cool 4°C	6 months

cwm = clear wide mouth jar

BTEX = benzenes, toluene, ethylbenzene, and xylenes

ext = extract

ASAP = as soon as possible

RCRA = Resource Conservation and Recovery Act

Table 3-4. Ground and Surface Water Sample Containers, Preparation, Preservatives, and Holding Times

Analyses	Method	Sample Container	Preservation and Handling	Holding Times
Gasoline Range Organics with BTEX	NWTPH-Gx	3-40 mL vials	Cool 4 °C; HCL to pH < 2	14 days
Diesel and Heavier Range Organics	NWTPH-Dx	3-40 mL vials	Cool 4 °C	14 days
Volatile Organic Compounds	8260B	40 mL vial	Cool 4 °C	14 days if preserved; 7 days if unpreserved
Semi-volatile Organic Compounds	8270B	2-500 mL amber	Cool 4 °C	14 days; ext 40 days
Dissolved Metals	6010	2-500 mL glass	HNO ₃ to pH <2	6 months
Total Metals	6010	2-500 mL glass	HNO ₃ to pH <2	6 months
Alkalinity	2320	500 mL HDPE	Cool 4 °C	14 days
Chloride	325.2	500 mL HDPE	Cool 4 °C	28 days
Sulfate	375.2	500 mL HDPE	Cool 4 °C	28 days
Ammonia	350.1M	500 mL HDPE	Cool 4 °C	28 days
Nitrate	300.0	1 L HDPE	Cool 4 °C	48 hours
Total Organic Carbon	415.1	250 mL amber	Cool 4 °C	28 days
Total Dissolved Solids	160.1	250 mL HDPE	Cool 4 °C	7 days
PCBs	8082	1 L amber	Cool 4 °C; Na ₂ S ₂ O ₃	7 days; ext 40 days

ext = extract

HDPE = High Density Polyethylene

ASAP = as soon as possible

2.3.2 Documentation

Sample documents will be carefully prepared so that sample identification and chain-of-custody can be maintained and sample disposition controlled. Sample identification documents are summarized in Table 3-5 and will include:

- Field notebook
- Sample labels
- Chain-of-custody records

Table 3-5. Sampling and Sample Handling Records

Records	Use	Responsibility/Requirements
Field Notebook	Records significant events, observations, and appropriate measurements.	Maintained by field sampler/geologist; all entries must be factual, detailed, objective; entries must be signed and dated.
Sample Label	Accompanies sample; contains specific sample identification information	Completed and attached to sample container by sampler.
Chain-of-Custody Record	Documents chain-of-custody (responsibility/accountability) for sample handling	Documented by sample number. Original accompanies sample. A copy is retained by Quality Assurance Officer (QAO).

Project sampling and sample handling will be documented through the use of a field notebook. A field notebook must be maintained to provide daily records of significant events, observations, and appropriate measurements collected during field investigations. All entries are to be made in waterproof ink, signed, and dated. Corrections will be made according to the procedures given at the end of this section.

Field notebooks are intended to provide sufficient data and observations to enable participants to reconstruct events that occurred during projects and to refresh the memory of the field personnel if called upon to give testimony during legal proceedings. The field notebook entries should be factual, detailed, and objective. All field notes will be retained by the program field coordinator and secured in a safe place.

As with any data logbooks, no pages are to be removed, destroyed, or thrown away. If a correction is to be made, these will be made by drawing a single line through the original entry (so that the original entry can still be read) and writing the corrected entry alongside. The correction will be initialed and dated. Most corrected errors will require a footnote explaining the correction.

If an error is made on a document assigned to one person, that individual may make corrections simply by crossing out the error and entering the correct information. The erroneous information should not be obliterated. Any error discovered in a document should be corrected by the person who made the entry.

2.4 SAMPLE CUSTODY

2.4.1 Custody Procedures

This section describes sample custody and chain-of-custody procedures to be used for this project. These procedures ensure the quality and integrity of the samples are maintained during their collection, transportation, storage, and analysis.

2.4.1.1 Chain-of-Custody Procedures

The chain-of-custody procedures used for this program provide an accurate written or computerized record that can be used to trace the possession of each sample from the time each is collected until completion of all required analyses. A sample is in custody if it is in any of the following places:

- Someone's physical possession
- Someone's view
- A secured container
- A designated secure area

2.4.1.2 Field Custody Procedures

The following field custody procedures will be followed:

- As few people as possible will handle the samples.
- The sample collector will be responsible for the care and custody of the samples collected until the samples are transferred or dispatched properly.
- The sample collector will record sample data on the sample collection form.
- The field coordinator will determine whether proper custody procedures were followed during the field work and will decide if additional samples are required.

2.4.1.3 Laboratory Custody Procedures

A designated sample custodian will accept custody of the shipped samples and verify that the information on the sample labels matches the chain-of-custody records. Pertinent information on shipment, pickup, courier, and condition of the samples is entered in the "Remarks" section of the chain-of-custody form. The custodian then enters the sample identification number data into a bound logbook of the chain-of-custody forms, which is arranged by project code and station number.

The laboratory custodian uses the sample identification number or assigns a unique laboratory number to each sample, transfers the samples to the proper analyst, or stores them in the appropriate secure area. Sample control and custody at the laboratory through sample disposal will be conducted in accordance with standard laboratory procedures that maintain the sample integrity and security.

2.4.2 Transfer of Custody and Shipment

When samples are transferred, the person relinquishing the samples will sign the chain-of-custody record and record the data and time of transfer. The sample collector will sign the form in the first signature space.

Program documentation of sample custody will be verified by the QAO during regular review of the data package.

The following transfer of custody and shipment procedures will be followed:

- The coolers in which samples are packed must be accompanied by a chain-of-custody record. When transferring samples, the individuals relinquishing and receiving them must sign, date, and note the time on the chain-of-custody record to document the sample custody transfer.
- Shipping containers will be sealed with custody seals for shipment to the laboratory. The method of shipment, name of courier, and other pertinent information will be entered in the “Remarks” section of the chain-of-custody record and traffic report.
- All shipments will be accompanied by the chain-of-custody record identifying their contents. The original record will accompany the shipment. The other copies will be distributed as appropriate to the QAO and program manager.

2.4.3 Sample Identification

Each sample will be labeled and sealed immediately after collection. The labels will be filled out using waterproof ink and will be firmly affixed to the sample containers and protected with clear, water-resistant tape.

The following information will be indicated on each sample label:

- Name of sampler
- Date, time, and location of collection
- Sample number
- Analysis required
- Preservative, if any

2.4.4 Sample Packaging and Shipping

The samples will be transported and handled in a manner that not only protects the integrity of the sample, but also prevents any detrimental effects due to the possible hazardous nature of the samples. Regulations for packaging, marking, labeling, and shipping hazardous materials are issued and enforced by the Washington State Department of Transportation (WSDOT) in the 49 Code of Federal Regulations (CFR) 172 through 177. Samples will be packed in plastic bubble wrap, placed on ice in a sealed cooler, and shipped via a commercial carrier to the analytical laboratory.

2.5 CALIBRATION PROCEDURES AND FREQUENCY

2.5.1 Laboratory Instruments

All instruments and equipment used during analysis will be operated, calibrated, and maintained according to manufacturer’s guidelines and recommendations, and in accordance with procedures in the EPA method cited. Properly trained personnel will operate, calibrate, and maintain laboratory instruments. Calibration blanks and check standards will be analyzed daily for each parameter to verify instrument performance and calibration before beginning sample analysis.

All calibration procedures will meet or exceed EPA SW-846 protocols as described in the SW-846 regulations for all metals analyses. Any variations from these procedures must be approved by the QAO before beginning sample analysis.

After the instruments are calibrated and standardized within acceptable limits, precision and accuracy will be evaluated by analyzing a QC check sample for each analysis performed that day. Acceptable performance of the QC check sample verifies the instrument performance on a daily basis. Analysis of a QC check standard demonstrates good laboratory practices. QC check samples containing all analytes of interest will be either purchased commercially or prepared from pure standard materials independently from calibration standards. The QC check samples will be analyzed and evaluated according to the EPA method criteria.

Instrument performance check standards and calibration blank results will be recorded in a laboratory instrument log book, which will also contain evaluation parameters, benchmark criteria, and maintenance information. If the instrument log book does not provide maintenance information, a separate maintenance log book must be maintained for the instrument.

2.5.2 Field Instruments

Field instruments to be used during the performance of sampling activities will be calibrated in accordance with the manufacturer's guidelines.

2.6 ANALYTICAL PROCEDURES

QC checks and decision criteria for determining if an analysis is within quality control requirements will follow the QC procedures and guidelines listed in SW-846.

Analytical methods and method reporting limits (MRLs) for the planned analyses are summarized in Tables 3-6 and 3-7. The MRL is higher than the practical quantitation limit (PQL) defined by Ecology (1995) as the concentration that can be reliably measured within specified limits during routine laboratory operating conditions using Ecology-approved methods. On Tables 3-6 and 3-7, general MRLs for groundwater and soil are compared with the MTCA regulatory standards (Ecology 2001a and b). Those regulatory standards that are less than the MRL or PQL are indicated. Alternative methods to obtain lower PQLs will be solicited during the laboratory section process, and project documents will be updated accordingly.

Where appropriate, based on anticipated data uses and with recognition of validation requirements, these procedures may be modified to incorporate techniques familiar to the project laboratory. The laboratory will notify the project QAO of any proposed procedural changes and document these changes in the cover letter with the data reports.

Because of the potential sample heterogeneity, matrix interferences may make achievement of the desired detection limits and associated quality control criteria impossible. In such instances, the laboratory must report to the QAO the reason for noncompliance with QC criteria or elevated detection limits.

2.7 DATA REDUCTION, VALIDATION, AND REPORTING

All analyses performed for this project must reference QC results to enable reviewers to validate (or determine the quality of) the data. Sample analysis data, when reported by the laboratory, will include QC results but not the backup documentation. The project QAO is responsible for conducting checks for internal consistency, transmittal errors, laboratory protocols, and for complete adherence to the QC elements specified in the QAPP.

A verification level validation will be performed on all field documentation and analytical data reports. The data validation process will be used to verify the data quality. The SAP will be used as the primary document guiding the data validation effort. When this is not possible, method-specific QA requirements (typically listed in the SOP for the analytical methods) and professional judgment will be used to guide the data validation effort.

The following QC elements will be reviewed, as appropriate:

- Analytical holding times
- Preparation of blank contamination
- Standard precision
- Analytical accuracy (blank and matrix spike recoveries and laboratory control sample recoveries)
- Analytical precision (comparison of replicate sample results, expressed as relative percent differences)

Each data package will be assessed to determine whether the required documentation is of known and verifiable quality. This includes the following items:

- Field chain-of-custody record (to ensure that it is present, complete, and signed)
- Certified analytical report
- QA/QC sample results

2.8 INTERNAL QUALITY CONTROL

QC checks will consist of measurements performed in the field and laboratory. The analytical methods referenced in Section 3.7 specify routine methods required to evaluate data precision and accuracy, and whether the data are within the QC limits. Field and intra-laboratory methods are described below.

The following QC samples will be evaluated to verify accuracy and precision of laboratory results for this project. The frequency of QC sample evaluation is also indicated by sample type, but may be adjusted when the final sampling schedule is determined. The frequencies of QC sample evaluation described here should be considered a minimum and will be adjusted accordingly.

2.8.1 Field Rinsate Blank

One field rinsate blank will be analyzed.

Field rinsate blanks will consist of deionized water poured over and/or through the sampling equipment after decontamination. Surfaces and materials exposed during actual sampling will be rinsed to evaluate the effectiveness of the sampling equipment decontamination procedures and the potential for field cross-contamination.

2.8.2 Blind Field Duplicate

One blind field duplicate sample will be analyzed to verify the precision of laboratory and/or sampling methodology. The blind field duplicate will consist of split samples from a larger, homogenized sample. The samples will be coded so the laboratory cannot discern which samples are field duplicates.

2.8.3 Laboratory Method Blank

A minimum of one laboratory method blank will be analyzed per 20 samples or one per sampling event (whichever is greater) to assess possible laboratory contamination. Laboratory method blanks will contain all reagents and undergo all procedural steps used for analysis.

2.8.4 Laboratory Control Sample

A minimum of one laboratory control sample (LCS) will be analyzed per 20 samples or one per sampling event (whichever is greater) to verify the precision of laboratory equipment. The LCS will be a concentration within the calibration range. LCS analysis will follow EPA LCS guidelines established in SW-846.

2.8.5 Laboratory Matrix Spike

A minimum of one laboratory MS will be analyzed per 20 samples or one per sampling event (whichever is greater) to monitor recoveries and ensure that extraction and concentration levels are at acceptable levels. The laboratory MS will follow the MS guidelines specified in SW-846.

2.8.6 Laboratory Matrix Duplicate

A minimum of one laboratory matrix duplicate will be analyzed per 20 samples or one per sampling event (whichever is greater) to provide information on the precision of chemical analysis. The laboratory duplicate will follow EPA duplicate guidelines specified in SW-846.

2.9 PREVENTATIVE MAINTENANCE

2.9.1 Field Instruments

Field instruments and maintenance procedures will be in accordance with the manufacturer's guidelines.

2.9.2 Laboratory Instruments

The analytical laboratory manager is ultimately responsible for the care of the laboratory instruments. The manager may delegate the responsibility to the senior supervising chemist or technician qualified to perform routine maintenance after demonstrating that personnel are trained in maintenance procedures for the laboratory section (wet chemistry, metals, and organics). Training of laboratory personnel on the routine care of laboratory equipment should be provided, at a minimum, during the initial installation of the equipment and, for new analysts, before initial use of the equipment.

Maintenance and other appropriate details should be documented in daily maintenance log books. The individual performing the maintenance procedures will date and sign each entry. At a minimum, the preventative maintenance schedules contained in the EPA methods and in the equipment manufacturer's instructions will be followed.

2.10 SPECIFIC ROUTINE PROCEDURES USED TO ASSESS DATA

Analytical data will be reviewed to ensure that the QA/QC objectives for precision, accuracy, and completeness are met. These reviews will identify the occurrence of deficiencies in time to take corrective action. This section describes routine procedures for assessing project data.

2.10.1 Assessment of Data Precision

Precision measures the mutual agreement among individual measurements of the same property, usually under prescribed similar conditions. Field duplicate samples will be used to measure precision. The estimate of precision of duplicate measurements is expressed as an RPD, which is calculated as follows:

$$RPD = \frac{D_1 - D_2}{(D_1 + D_2) \div 2} \times 100$$

Where: D1 = First sample value
D2 = Second sample value

The RPDs between the primary sample and the duplicate sample will be calculated and compared with QA objectives.

2.10.2 Assessment of Accuracy

Accuracy is assessed using the results of standard reference material, continuing calibration, and matrix spike analyses. It is routinely expressed as a percent recovery. The percent recovery will be routinely calculated and checked against QA objectives.

2.10.3 Assessment of Completeness

The amount of valid data produced will be compared with the total analyses performed to assess the percent of completeness. Completeness will be calculated and compared with the DQOs.

2.10.4 Assessment of Representativeness

Sample locations and sampling procedures will have been chosen to maximize representativeness. A qualitative assessment (based on professional experience and judgment) will be made of sample data representativeness based on a review of sampling records and QA audit of field activities.

2.11 CORRECTIVE ACTIONS

Corrections actions may be needed for two categories of nonconformance:

- Deviations from the methods or QA requirements established in the SAP/QAPP
- Equipment or analytical malfunctions

During field operations and sampling procedures, the project field coordinator will be responsible for taking and reporting required corrective action. A description of any such action taken will be entered in the field notebook. If field conditions are such that conformance with the SAP/QAPP is not possible, the QAO will be consulted immediately. Any corrective action or field condition resulting in a major revision of the SAP/QAPP will be communicated to the project manager for review and concurrence. This communication will be made before changes in the field activities whenever possible.

During laboratory analysis, the laboratory QAO will be responsible for taking required corrective actions in response to equipment malfunctions. If an analysis does not meet data quality goals outlined in the QAPP, corrective action will follow the guidelines in SW-846. This includes, at a minimum, the following considerations:

- Calibration check compounds must be within the performance criteria specified in SW-846 or corrective action must be taken before sample analysis begins.
- Before processing any samples, the analyst should demonstrate by analysis of a reagent blank that interferences from the analytical system, glassware, and reagents are within acceptable limits. Each time a set of samples is extracted or there is a change in reagents, a reagent water blank should be processed as a safeguard against chronic laboratory contamination. The blank samples should be carried through all stages of the sample preparation and measurement steps.
- Spike analysis must be within the contract required recovery limits or corrective action must be taken and documented.

If analytical conditions do not conform with this QAPP, the QAO will be notified as soon as possible so that any additional corrective actions can be taken.

Corrective Action Reports will be provided by the analytical laboratory to document response to any reported nonconformance. These reports may be generated from internal or external audits or from informal reviews of project activities. Corrective Action Reports will be reviewed for appropriateness of recommendations and actions by the QAO for QA matters, and the project manager for matters of technical approach.

2.12 QUALITY ASSURANCE REPORTS TO MANAGEMENT

A QC summary report from the analytical laboratory will accompany all data files. This QC report will summarize all relevant data quality information. The QAO will be responsible for data quality assessments and associated QA reports.

APPENDIX B

Limited Hazardous Materials Survey

Hazardous Materials Survey Report Former Boise Cascade Mill Site Hog Fuel Boiler House and Natural Gas Boiler House

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CERTIFICATION

The technical material and data contained in this document were prepared under the supervision and direction of the undersigned.



Prepared by Lara Linde, AHERA Building Inspector



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Approved by Kurt Easthouse, Project Manager

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- C Natural Gas Boiler House
- D Photographs
- E Forms

KEY TERMS

ACM	Asbestos Containing Materials
AHERA	Asbestos Hazard Emergency Response Act
CTED	Washington State Department of Community, Trade, and Economic Development
FAA	Flame Atomic Absorption
HID	High Intensity Discharge
HUD	United States Department of Housing & Urban Development
NLLAP	National Lead Laboratory Accreditation Program
NODR	Notice of Demolition and Renovation
NVLAP	National Voluntary Laboratory Accreditation Program
PCB	Polychlorinated Biphenyl
TCLP	Toxicity Characteristic Leaching Procedure
TSI	Thermal System Insulation
UPS	United Parcel Service
YRCAA	Yakima Regional Clean Air Authority

1. INTRODUCTION

Parametrix was retained by Leelynn, Inc. and Wiley Mt., Inc. (Ownership) to conduct an Asbestos Hazard Emergency Response Act (AHERA) survey at the Hog Fuel Boiler House and the Natural Gas Boiler House located at the Former Boise Cascade Mill at 807 North 8th Street in Yakima, Washington (Figure 1). The scope of the survey was to identify the following hazardous materials prior to proposed building demolition:

- Asbestos
- Lead-Based Paint (LBP)
- Polychlorinated Biphenyls (PCBs)

This survey was performed in accordance with all federal, state, and local regulatory requirements by the certified inspectors listed in Table 1-1, on April 8 and 9, 2008. Inspector's accreditations are provided in Appendix A.

Table 1-1. Staff Certifications

Inspector	Certification	Certificate Number	Expiration Date
Lara Linde	AHERA Building Inspector	ARGUS # 1026700	July 10, 2008
	Lead Inspector/Risk Assessor	State of Washington # 0420	June 10, 2008
Mark Willoughby	AHERA Building Inspector	RGA # 07-1911	June 5, 2008
	Lead Inspector	State of Washington # 0655	December 13, 2010

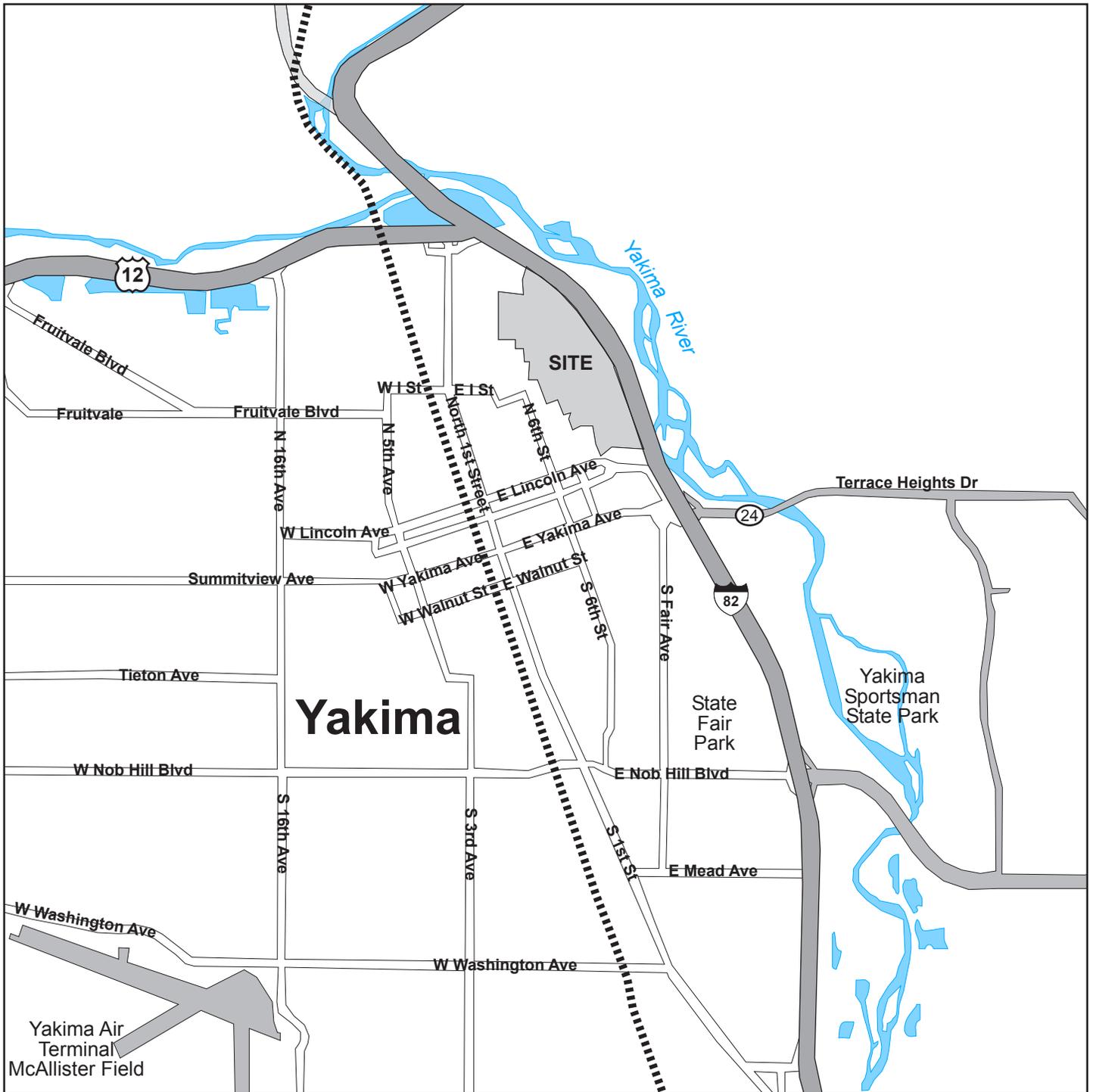
AHERA = Asbestos Hazard Emergency Response Act

This report describes asbestos containing materials (ACM) and other hazardous materials encountered during the survey process.

The following sections describe the historical document review and work completed by others.

1.1 HISTORIC DOCUMENTATION REVIEW

Parametrix performed a review of historical documents which were provided by the client after completion of the field effort. Documents included in the review are presented in Table 1-2.



Parametrix Yakima Resources 555-5753-001/02(024) 5/08 (B)

Figure 1-1
Site Location Map
Former Boise Cascade Mill Site
Yakima, Washington



Table 1-2. Historical Document Review and Chronology of Events

Date	Author	Title	Relevance
October 1988	Walkenhauer & Associates	Chain-of-Custody for Hazardous Waste	Documents first recordable asbestos abatement of 3 linear feet.
1988/1989	Walkenhauer & Associates	Asbestos Inspection	Presents previous sampling locations, descriptions, and quantities.
1988	-	-	Walkenhauer Certifications.
November 1988	Environmental Engineering	Asbestos Disposal Form for Terrace Hills Dump	Asbestos disposal documentation .
June 1989	Washington State Department of Labor and Industries	Informational Meeting Concerning Emergency Asbestos Adoption	Correspondence regarding amendments to existing asbestos regulations. Also details changes to WAC 296-62 and 296-65.
July 1989	Walkenhauer & Associates	Air Sample Data Sheet	Documents asbestos abatement on the exterior.
August 1996	Russell Crane Service	Fax Cover Sheet	Documents notification of Re-Manufacturing Building demolition.
August 1996	Yakima Regional Clean Air Authority	Notice of Demolition and Renovation	Documents form submittal.
August 1997	Boise Cascade	Transite Pipe Disposal – Yakima Wood Products Complex	Presents transite pipe sewer line discovery and proposal for removal and disposal of the pipe, including related notice for abatement and disposal invoice.
February 1998	Boise Cascade	Asbestos Disposal	Documents removal and disposal of remnant cylinder rod packing containing asbestos.
June 1998	Fulcrum Environmental Consulting, Inc.	Analytical Results for Stack Insulating Material	Presents results of limited sampling on an unidentified exhaust stack.

(Table Continues)

(Continued)

Date	Author	Title	Relevance
January 2000	Fulcrum Environmental Consulting, Inc.	Professional Services for Boise Cascade in Yakima, Washington	Proposal to update existing asbestos management plan and develop a working database.
February 2000	Fulcrum Environmental Consulting, Inc.	Professional Services for Boise Cascade in Yakima, Washington	Scope for ongoing asbestos management.
February 2000	Argus Pacific	Building Inspector Certificate	Documents certification of Fulcrum's asbestos inspector.
March 2000	Fulcrum Environmental Consulting, Inc.	Limited Asbestos Abatement Confirmation	Documents confirmation of abatement at selected locations.
September 2001	Fulcrum Environmental Consulting, Inc.	Analytical Results of Ceiling Tile and Associated Adhesive Samples	Documents sampling and results of ceiling tile and adhesive in the Engineering/Training Building.
December 2001	Fulcrum Environmental Consulting, Inc.	Analytical Results of Suspect Thermal System Pipe Insulation at the Small Sawmill	Documents sampling and results of pipe insulation contained inside a 20-gallon metal drum.
October 2002	NVL Laboratories	Bulk Asbestos Fiber Analysis	Presents results of pipe insulation. Location or reason for sampling is unknown.

WAC = Washington Administrative Code

During the field effort, Parametrix also obtained a set of drawings, stored on site in the Hog Fuel Boiler House office, containing the drawings listed in Table 1-3.

Table 1-3. Boise Cascade Drawing Inventory

Drawing Name	Drawing Number	Company	Date
Instrument Plot Plan – Boiler 4	1915-15	Bumstead Woolford	1984
Sectional Front View – Boiler 4	BTS 1718	Union Iron Works	1963
General Arrangement – Boiler 4	BTS 1714	Union Iron Works	1963
Sectional Plan Views – Boiler 4	BTS 1720	Union Iron Works	1963
Sectional Side View – Boiler 4	BTS 1719	Union Iron Works	1963

1.2 PREVIOUS SURVEY AND MANAGEMENT PLAN EVALUATION

An asbestos survey was conducted by Walkenhauer & Associates followed by an asbestos management plan. A handwritten date of February 1988 is located on the cover of the report, however, samples submitted for analysis for this investigation are dated March and April 1989. There is some confusion on the completion date of this report.

After reviewing the survey and management plan the following observations were made:

- The survey appears to encompass most of the buildings at the facility; however, some have been demolished since the late 1980s. From the information provided the following buildings were included in the survey:
 - Plywood Plant
 - Small Log Mill
 - Large Log Mill
 - Boilers
 - Re-Manufacturing Building
 - Main Office/Administration Building
 - Planer 1 & 2
 - Planer 3 Shed
 - Shipping Shed
 - Five Sheds located throughout the site
 - Drying Shed
 - Log Yard Shop
 - Office & Warehouse
- The survey does not provide all of the expected information generated from the sample collection. In fact, only two laboratory reports were located totaling 26 samples, but the sample location map provided shows a total of 65 sample locations. Additionally, some of the samples recorded on the laboratory reports are not located on the sample location map. By cross referencing laboratory reports, the sample location map, and the asbestos management plan, it appears the author only reported on samples that contained asbestos.
- The author does not present evidence to support the following buildings did not contain asbestos, even though all of the buildings are listed as “No ACM Found” on the sample location drawing:
 - Re-Manufacturing Building
 - Planer 1 & 2
 - Planer 3 Shed
 - Five Sheds located throughout the site
- Proper AHERA protocols were not followed for sampling suspect asbestos containing materials. Thermal system insulation requires a minimum of three samples

from any one homogeneous area. Most homogeneous areas identified as asbestos containing pipe insulation were based upon a single, or sometimes two samples.

- Most ACM identified in the survey from 1988/1989 was in fair to poor condition.
- Laboratory reports from this survey are still valid if materials sampled can positively be identified.

1.3 ASBESTOS RELATED WORK BY OTHERS

From historical documents provided, Fulcrum Environmental Consulting was retained by Boise Cascade around 1998. Small field efforts were conducted by Fulcrum on an “as needed” basis. Fulcrum did provide Boise Cascade with a proposal to update their Asbestos Management Plan and develop a working asbestos database in February 2000. The latest documented information obtained was a laboratory report dated 2002 from NVL Laboratories without a narrative description of the purpose of the sampling.

Historical documents also indicate a number of abatement, construction, and demolition events. Details of the document review were purposely arranged chronologically in Table 1-2 to coincide with these events. A total of four small asbestos abatement operations were noted during the document review.

2. FIELD METHODS

The following sections describe the field methods that were used to collect bulk samples for this project.

2.1 COLLECTION METHODS

Suspect ACM was grouped into homogeneous areas, categorized, and sampled as described by 40 CFR 763:

- Thermal System Insulation (TSI): at least three samples per homogeneous area collected in a randomly distributed pattern.
- Surfacing Material: at least three samples per homogeneous area collected in a randomly distributed pattern for 1,000 square feet or less, at least five samples for materials greater than 1,000 and less than 5,000 square feet, and at least seven samples for materials greater than 5,000 square feet.
- Miscellaneous: at least one sample per homogenous area collected in a manner sufficient to determine whether or not the materials are ACM.

Suspect ACM and LBP samples were collected using destructive measures, however, some areas were repaired at the time of sampling. Collection involved removing small pieces of material with a razor blade, chisel, or other sharp instruments. Samples were collected by manually cutting or chipping the material from the substrate. The samples were collected using wet sampling methods with clean extraction tools. Samples were placed in individual Ziploc bags and labeled with a unique sample number. The sampling equipment was decontaminated prior to collecting each sample.

2.2 LABORATORY ANALYSIS

Suspect ACM and LBP samples were sent via the United Parcel Service (UPS) to NVL Laboratories in Seattle, Washington for analysis. NVL participates in the National Voluntary Laboratory Accreditation Program (NVLAP) and National Lead Laboratory Accreditation Program (NLLAP) for quality control procedures.

Suspect ACM samples were analyzed by Polarized Light Microscopy Standard Environmental Protection Agency (EPA) Method 600/R-93/116. Suspect LBP samples were analyzed for total lead concentration by Flame Atomic Absorption (FAA) EPA Method 7000B.

2.3 BLIND DUPLICATE SAMPLES

Duplicate samples were collected at the rate of one for every twenty samples for the project. A total of six blind duplicate samples were collected for asbestos analysis. A single duplicate sample was collected for total lead analysis. Results of the duplicate analyses are presented in Tables 2-1 and 2-2.

Table 2-2. Duplicate Samples for Asbestos Analysis

Sample Number	Original/Duplicate	Result	Present/Absent
HFHA-WG1-02	Original	<1% Chrysotile	Present*
HFHA-WG1-03	Duplicate	ND	
HFHA-BP3-01	Original	ND	Absent
HFHA-BP3-02	Duplicate	ND	
HFHA-PI3-02	Original	20% Amosite	Present
HFHA-PI3-03	Duplicate	21% Amosite	
HFHA-BII1-01	Original	ND	Absent
HFHA-BII1-04	Duplicate	ND	
HFHA-FB3-03	Original	ND	Absent
HFHA-FB3-04	Duplicate	ND	
NGHA-PI2-01	Original	ND	Absent
HGHA-PI2-02	Duplicate	ND	

*Although the duplicate sample did not detect asbestos, it may still be present and bound in the matrix.

Because asbestos identification is a qualitative method (estimate), standard quality assurance/quality control methods cannot be applied. A duplicate sample is used to verify or negate the presence and type of asbestos of the parent sample.

Table 2-2. Duplicate Sample for Total Lead Analysis

	Original	Duplicate
Sample Number	HFHL-08	HFHL-09
Result	<160	<170

mg/kg = milligrams per kilogram

Blind duplicate samples collected for asbestos and lead analysis fall into acceptable quality assurance and quality control parameters.

3. SUMMARY OF HAZARDOUS MATERIALS

This section summarizes results from the field investigation. Tables B-1 through B-3 and C-1 through C-2 located in Appendices B and C, respectively, describe detailed ACM types and estimated quantities encountered by building. Representative photographs of hazardous materials are included in Appendix D.

Table 3-1. Hazardous Materials Encountered by Building

Building	Asbestos	Lead-Based Paint	PCBs	Other
Hog Fuel Boiler House	X	X	X	X
Natural Gas Boiler House			X	X

Although not part of the scope of work, Parametrix identified the materials listed in Table 3-2 that should also be removed prior to demolition:

Table 3-2. Additional Hazardous Materials

Hazardous Material	Hog Fuel Boiler House	Natural Gas Boiler House
Fluorescent Light Tubes	X	X
Mercury Vapor Lamp	X	
Chemical Storage (multiple sources)	X	
Drum of Petroleum Produce	X	
Drum of Unknown	X	
Caustic Material, Associated Vat, and piping	X	

3.1 SALVAGE AND RECYCLING

The following materials observed during the investigation may be suitable for salvage or recycling:

- Metal
- Concrete
- PCB and non-PCB containing ballasts
- Fluorescent light tubes

4. CONCLUSIONS

As a result of the field investigation and document review the following conclusions were made:

- An asbestos survey was performed by Walkenhauser & Associates and a follow up Asbestos Management Plan was developed for Boise Cascade.
- The handwritten date of 1988 appearing on the asbestos survey cover page most likely is not accurate. A review of the laboratory reports with the sample identification numbers indicates the analysis was performed in 1989.
- The historic asbestos survey provides somewhat useful results and quantities; however, there are significant discrepancies in identifying areas that contain asbestos and quantities present.
- The historic asbestos survey identifies several areas of piping penetrating underground.
- Most ACM is in fair to poor condition in the Hog Fuel Boiler House except for the vinyl tile located in the bathroom, which is in good condition.
- The Asbestos Management Plan lacks all of the maintenance records, making it difficult to gather accurate information on exterior and underground piping runs.
- Both the Hog Fuel Boiler House and the Natural Gas Boiler House contain hazardous materials as described in Section 3.0
- The document review performed on the Boiler 4 drawings secured at the site indicates ACM that was not discovered during the historic or the recent survey. These materials may have been concealed at the time of both surveys.
- Underground transite sewer pipes are known to exist on the site. Underground water pipes running through the site may also be composed of transite. Transite produced prior to the 1980s was partially composed of asbestos.
- Some of the paint chips submitted for total lead analysis contained high concentrations of lead.
- A great amount of building materials may be suitable for salvage or recycling, including metal, concrete, PCB and non-PCB containing ballasts, and fluorescent light tubes.

5. RECOMMENDATIONS

As a result of the recent hazardous materials survey, the following recommendations should be considered:

- At a minimum, a supplemental sampling event should be performed to accomplish the following:
 - verify the findings of the Walkenhauer & Associates survey
 - verify the materials identified on the Boiler 4 drawings
 - confirm results of the more recent survey
 - include the Electrical Room in the asbestos survey
 - accurately estimate abatement costs
- Because of the lack of verifiable data in the Walkenhauer & Associates survey, consider surveying all currently standing buildings, structures, sheds, and exterior piping runs prior to demolition.
- At a minimum, a geophysical survey should be performed around the perimeter of the Hog Fuel Boiler House to locate the suspected utilidor.
- A consultation should be made with the local water and sewer authority to evaluate the location, extent, and construction of underground utilities on the site.
- Locate asbestos management plan maintenance records.
- Task asbestos abatement contractor with both abatement of ACM and clean up of existing presumed asbestos containing debris described in Section 4.2 of Appendix B.
- Removal of all identified hazardous materials is required prior to demolition, except for LBP. Abatement of LBP is not required by federal, state, or local regulatory agencies, however, this report should be provided to contractors working at the site to satisfy WAC 296-62-07721 Communication of Hazard to Employees.
- File a Notice of Demolition and Renovation (NODR) Form with YRCAA prior to asbestos abatement. The Ownership may wish to require the asbestos abatement contractor or the demolition contractor to file the form. A sample of the NODR Form is provided in Appendix E.
- Perform Toxicity Characteristic Leaching Procedure (TCLP) sampling for waste characterization to determine whether demolition debris may be disposed of as general waste or hazardous waste. One sample is required for each building demolished. The sample should be composed of materials specifically going to a landfill and should not include materials for salvage or recycling.
- Secure a demolition contractor that will employ salvage or recycling practices to save cost for disposal.
- Require demolition or abatement contractor to inspect all fluorescent light ballasts prior to disposal. The presence of more than 16 PCB containing ballasts requires containerization, disposal, and hazardous waste manifest documentation in accordance with EPA requirements.

6. COST ESTIMATES

Table 6-1 was prepared with only the minimum recommendations followed, which include:

- Geophysical Survey around the perimeter of the Hog Fuel Boiler House prior to abatement.
- Supplemental sampling effort prior to abatement, to more accurately estimate the abatement cost for the Hog Fuel Boiler House.
- Consultation with local water authority to locate sewer and water lines on site, prior to abatement. If as-built drawings of these utility lines are not available, a records review may be performed at the local water authority.

Table 6-1. Estimate for Minimum Requirements Prior to Abatement

Task	Field Time to Complete	Estimate*
Geophysical survey to locate suspected utilidor around Hog Fuel Boiler House perimeter	1 day	\$2,650
Supplemental sampling effort, reporting, cost estimate revision for Hog Fuel Boiler House	1 day	\$2,600
Consultation and records review to locate water and sewer lines	1 day	\$1,075
Total		\$6,325

*Estimate assumes that all tasks can be completed during the same field effort to minimize cost.

Table 6-2 has been prepared as a preliminary cost estimate for abatement of the hazardous materials identified in the scope of work including light fixtures.

Table 6-2. Hazardous Materials Preliminary Abatement Cost Estimate

Building	Material	Quantity	Estimate
Hog Fuel Boiler House	TSI mag piping 3"-15"	540 lf	\$13,500
	TSI mag piping 10% contingency	54 lf	\$1,350
	TSI mag fitting 3"-15"	87 ea	\$3,045
	TSI mag fitting 10% contingency	8 ea	\$280
	Vinyl Tile ¹	98 sf	\$343
	Window Glazing ²	14 ea	\$2,100
	Boiler 1 Water Tank Insulation ³	1,200 sf	\$30,000

(Table Continues)

(Continued)

Building	Material	Quantity	Estimate
	Fluorescent Light Fixtures	23 ea	\$575
	Fluorescent Light Ballasts (PCB and Non-PCB)	23 ea	\$575
	Mercury Vapor Lamp	1 ea	\$25
Natural Gas Boiler House	Fluorescent Light Fixtures	1 ea	\$25
	Fluorescent Light Ballasts (PCB and Non-PCB)	1 ea	\$25
		Total	\$51,843

¹ Mastic non-asbestos containing

² Entire window demolition

³ Recommend further sampling to definitively verify

lf = linear feet

sf = square feet

ea = each

7. REGULATORY REQUIREMENTS

The following agencies and applicable regulatory requirements should be followed during the abatement and/or demolition of the Hog Fuel and Natural Gas Boiler Houses.

- Yakima Regional Clean Air Authority (YRCAA).
- Washington State Dangerous Waste Regulations (WAC 173-303).
- Washington State General Occupational Health Standards (WAC 296-62), including asbestos (WAC 296-62-077) and lead (WAC 296-62-07521).
- Washington State Asbestos Removal and Encapsulation Standards (WAC 296-65).
- Washington State Safety Standard for Lead in Construction (WAC 296-155-176).
- Washington State Respirator Standard (WAC 296-842).
- Washington State Hazardous Employer Chemical Hazard Communication (WAC 296-800-170).

7.1 REGULATORY PERMITS AND OTHER REQUIREMENTS

The following forms/permits may be required prior to an asbestos abatement or demolition project. Forms are provided in Appendix E.

- Yakima Regional Clean Air Authority Notice of Demolition and Renovation.
- Department of Labor and Industries Notice of Asbestos Abatement Project.

8. REPORT LIMITATIONS

The information contained within this report was prepared for the use of the Ownership, and their representatives. The field methods described in this report were consistent with generally accepted professional consulting principals and practices and in accordance with AHERA protocols described in 40 CFR 763.

Materials concealed behind wall systems, under concrete/wood floors or ground surface, above hard ceilings, out of safe and accessible reach, or on the roof were not accessible for inspection and were not included in this survey. In areas such as these where an asbestos containing material may be present, Parametrix has made an attempt to include an estimated quantity.

9. REFERENCES

- Argus Pacific. 2000. Building Inspector Certification for Chris Hansen. February.
- Boise Cascade Corporation. 1997. Transite Pipe Disposal – Yakima Wood Products Complex Letter to Fred Kubrock of TEKTONICS, Corp. August.
- Boise Cascade Corporation. 1998. Asbestos Disposal Fascimile Cover Sheet to Will Lowman at the Washington State Department of Labor and Industries from Victor Kollock. February.
- Environmental Engineering. 1988. Asbestos Disposal Form for Terrace Hills Dump prepared for Boise Cascade Corporation by Environmental Engineering. November.
- Environmental Sciences, Inc. 1988. Building Inspector and Management Planner Certificate for Joseph Walkenhauer. February.
- Fulcrum Environmental Consulting, Inc. 1998. Memorandum – Analytical Results for Stack Insulating Material. June.
- Fulcrum Environmental Consulting, Inc. 2000a. Professional Services for Boise Cascade in Yakima, Washington letter proposal to Dick Godfrey from Peggy Williamson. January.
- Fulcrum Environmental Consulting, Inc. 2000b. Professional Services for Boise Cascade in Yakima, Washington letter proposal to Les Filgrove from Peggy Williamson. February.
- Fulcrum Environmental Consulting, Inc. 2000c. Memorandum – Limited Asbestos Abatement Confirmation. March.
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- New Mexico Environment Department. Fact Sheet on Fluorescent Light Bulbs and Ballasts.
[http://www.nmenv.state.nm.us/HWB/data/Fact_Sheets/FACT SHEET FOR FLUORESCENT BULBS AND BALLASTS.doc](http://www.nmenv.state.nm.us/HWB/data/Fact_Sheets/FACT_SHEET_FOR_FLUORESCENT_BULBS_AND_BALLASTS.doc)
- NVL Laboratories. 2002. Bulk Asbestos Fiber Analysis. October.
- Russell Crane Service. 1996. Facsimile cover sheet. August.
- United States Environmental Protection Agency Code of Federal Regulations 40 CFR 763 – Asbestos Hazard Emergency Response Act.
- Walkenhauer & Associates. 1988. Chain of Custody Record for Hazardous Waste prepared for Boise Cascade Corporation by J. Walkenhauer. October.

Walkenhauer & Associates. 1988-89. Asbestos Inspection and Management Plan for Boise Cascade Corporation.

Walkenhauer & Associate. 1989. Air Sample Data Sheet. July.

Washington Administrative Code 173-303. Dangerous Waste Regulations.

Washington Administrative Code 296-62. General Occupational Health Standards for asbestos WAC 296-62-077.

Washington Administrative Code 296-62. General Occupation Health Standards for lead WAC 296-62-07521.

Washington Administrative Code WAC 296-65. Asbestos Removal and Encapsulation Standards.

Washington Administrative Code WAC 296-155-176. Safety Standard for Lead in Construction.

Washington Administrative Code WAC 296-842. Respirator Standard.

Washington Administrative Code WAC 296-800-170. Employer Hazardous Chemical Hazard Communication.

Washington State Department of Community, Trade, and Economic Development WAC 365-230 – Accrediation of Lead-Based Paint Training Programs and the Certification of Firms and Individuals Conducting Lead-Based Paint Activities.

Washington State Department of Labor and Industries. 1989. Informational Meeting Concerning Emergency Asbestos Adoption. June.

Washington State Department of Labor and Industries. 1988-89. Asbestos certifications for Joseph Walkenhauer.

Yakima Regional Clean Air Authority. Asbestos Regulations.

Yakima Regional Clean Air Authority. 1996. Notice of Demolition and Renovation Form. August prepared for Boise Cascade Corporation by Russell Crane Service. August.

APPENDIX A
Certifications

Certificate of Completion

This is to certify that

Lara M. Linde

has satisfactorily completed
4 hours of refresher training as an
Asbestos Building Inspector

to comply with the training requirements of
TSCA Title III / 40 CFR 763 (AHERA)

Certificate Number: 10267000


Instructor

EPA Provider Cert. Number: 1085



Jul 11, 2007

Date(s) of Training

Exam Score: NA

Expiration Date: Jul 10, 2008

Argus Pacific, Inc. • 1900 W. Nickerson, Suite 315 • Seattle, Washington • 98119 • (206) 285.3373 • fax (206) 285.3927

STATE OF WASHINGTON

Department of Community, Trade and Economic Development
Lead-Based Paint Program

Lara M Linde

Has fulfilled the certification requirements of Washington Administrative code (WAC) 365-230 and has been certified to conduct lead-based paint activities pursuant to WAC 365-230-200 as a:

Inspector

<u>Certification #</u>	<u>Issuance Date</u>	<u>Expiration Date</u>
0420	6/10/2005	6/10/2008

STATE OF WASHINGTON

Department of Community, Trade and Economic Development
Lead-Based Paint Program

Lara M Linde

Has fulfilled the certification requirements of Washington Administrative code (WAC) 365-230 and has been certified to conduct lead-based paint activities pursuant to WAC 365-230-200 as a:

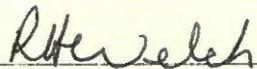
Risk Assessor

<u>Certification #</u>	<u>Issuance Date</u>	<u>Expiration Date</u>
0420	6/10/2005	6/10/2008

Certificate of Completion

This is to certify that
Mark Willoughby
has satisfactorily completed
24 hours of training as an
AHERA Building Inspector
in compliance with TSCA Title II AHERA 40 CFR Part 763
U.S. EPA Region 10 Accredited

June 6, 2007



Instructor: Bob Welch

Exp. Date: June 5, 2008



1730 Minor Avenue Suite 900 • Seattle, Washington 98101 • (206) 281-8858



Cert. # 07-1911

Conducted at:
RGA Environmental Inc., Seattle, WA

STATE OF WASHINGTON

Department of Community, Trade and Economic Development
Lead-Based Paint Program

Mark A. Willoughby

Has fulfilled the certification requirements of Washington Administrative code (WAC) 365-230 and has been certified to conduct lead-based paint activities pursuant to WAC 365-230-200 as a:

Inspector

<u>Certification #</u>	<u>Issuance Date</u>	<u>Expiration Date</u>
0655	12/13/2007	12/13/2010

APPENDIX B

Hog Fuel Boiler House Building

1. HISTORICAL CONSTRUCTION AND PHYSICAL DESCRIPTION

The Hog Fuel Boiler Building, (Parametrix Building 11) is located to the north of Gate H at the Employee Entrance of the facility. Based on the age of the mechanical equipment, the estimated date of construction is between 1955 and 1966. The hog fuel boiler building was built in at least two separate construction events described below.

A small brick building at the south end of the building appears to be the first evidence of a boiler room. The brick building measures approximately 2,266 square feet. A small door on the north side of the brick building was observed on the outside which was presumably used to load coal, wood, or another fuel source to a boiler, which has since been removed. During the survey, inspectors observed bare metal piping throughout the brick structure. It is assumed that insulated piping associated with this boiler system in the brick structure was removed at the same time as the boiler. No other information has been obtained related to the construction or abatement of the brick building.

The brick building was also observed to have fire damage in the eastern half of the building, in the Spare Parts Room, Compressor Room, and Air Drying Room. No information was obtained on the date or nature of the fire.

A second large building located to the north of the brick building was built sometime between 1955 and 1966, according to the mechanical equipment contained inside. The building footprint is approximately 4,200 square feet and is framed in wood and metal, with a single layer of corrugated metal siding and roofing. A separate room was constructed between the brick building and the metal building to joint the two and to house the Air Drying System, which is accessed through the brick building. Metal pipes were observed to be bare on the interior of the Air Drying Room.

Four hog fuel boilers and an extensive steam piping system were observed within the metal building. Piping is suspected to run underground in a utilidor as well as overhead as observed outside. The building condition itself appears to be in moderate repair with suspect ACM in fair to poor condition.

In total, the Hog Fuel Boiler Building contains three levels, including the ground level, a second level, and a mezzanine floor on the second level to access the high pressure steam line system and the upper boiler compartments. A series of ladders and catwalks is also present to access the roof. The total footprint of the building is approximately 6,466 square feet.

Attachment B-1 contains field notes and sample location drawings taken during the investigation. Analytical results and chain of custody forms for samples submitted for laboratory analysis are located in Attachment B-2

2. PREVIOUS INVESTIGATIONS

Parametrix obtained limited information concerning previous investigations. Historic documents reviewed are presented in Table 1-2. The most complete information was obtained from the Walkenhauer & Associates Asbestos Inspection and Management Plan completed between 1988 and 1989. Numerous other small documented abatement events occurred at the facility; however, during the recent survey it was evident one large abatement operation occurred in the brick building that was not recorded.

3. SUSPECT ASBESTOS CONTAINING MATERIALS IDENTIFICATION

A total of one hundred four samples (including duplicates) of suspect ACM were collected during the investigation conducted on April 8-9, 2008. Field notes and sample location drawings are presented in Attachment B-1. Table B-1 shows the analytical results. Laboratory analytical reports are contained in Attachment B-2.

Table B-1. Suspect Asbestos Containing Materials

Homogenous Area	Sample Number(s)	Description	Percent	Type
B3B	HFHA-B3B-01 thru 03	Brick Boiler Lining in Boiler 3	ND	-
BD2	HFHA-BD2-01 thru 03	Boiler 3 Door Insulation	ND	-
BG1	HFHA-BG1-01	Black Boiler Gasket on Boiler 1	ND	-
BG2	HFHA-BG2-01	Black Boiler Gasket on Boiler 2	ND	-
BG3	HFHA-BG3-01	Black Boiler Gasket on Boiler 3	ND	-
BIE1	HFHA-BIE1-01 thru 03	Yellow Water Tank Insulation, Boiler 1, Exterior	10¹	Chrysotile
BIE2	HFHA-BIE2-01 thru 03	Yellow Water Tank Insulation, Boiler 2, Exterior	ND	-
BIE2R	HFHA-BIE2R-01 thru 03	Red Water Tank Insulation, Boiler 2, Exterior	ND	-
BIE3R	HFHA-BIE3R-01 thru 03	Red Water Tank Insulation, Boiler 3, Exterior	ND	-
BII1 ²	HFHA-BII1-01 thru 04	Yellow Water Tank Insulation, Boiler 1, Interior	ND	-
BII1C	HFHA-BII1C-01 thru 03	Coarse Interior Boiler Insulation, Boiler 1	ND	-
BII2	HFHA-BII2-01 thru 03	Yellow Water Tank Insulation, Boiler 2, Interior	ND	-
BII3	HFHA-BII3-01	Yellow Water Tank Insulation, Boiler 3, Interior	ND	-
BII3C	HFHA-BII3C-01 thru 03	Coarse Interior Boiler Insulation, Boiler 3	ND	-
BII3U	HFHA-BII3U-01 thru 03	Boiler 3, Upper Central Compartment, Interior	ND	-
BP3 ²	HFHA-BP3-01 thru 02	Gray Boiler Paint, Boiler 3	ND	-

(Table Continues)

(Continued)

Homogenous Area	Sample Number(s)	Description	Percent	Type
C1	HFHA-C1-01	Black/Gray Compressor Paint	ND	-
C2	HFHA-C2-01	Black/Gray/Silver Compressor Paint	ND	-
CB1	HFHA-CB1-01	Tan/White Mastic Associated with Brown Cove Base	ND	-
ET1	HFHA-ET1-01 thru 03	Exterior Water Tank Insulation, Boiler 4	ND	-
FB3 ²	HFHA-FB3-01 thru 03	Fire/Fuel Box Insulation, Boiler 3	ND	-
FB4	HFHA-FB4-01 thru 03	Fire/Fuel Box Insulation, Boiler 4	ND	-
FR1	HFHA-FR1-01	Black Fire Retardant	ND	-
JC1	HFHA-JC1-01 thru 05	Joint Compound	ND	-
MA1	HFHA-MA1-01	Tan Formica Mastic	ND	-
PI1	HFHA-PI1-01 thru 03	Silver Paper with Fiberglass Insulation	ND	-
PI2²	HFHA-PI2-01 thru 03	3" Tank Pipe Insulation	30-60 12-14	Chrysotile Amosite
PI2F	HFHA-PI2F-01 thru 03	3" Tank Pipe Fitting/Elbow	44 5	Chrysotile Amosite
PI3²	HFHA-PI3-01 thru 07	High Pressure Steam Line Insulation	2 20	Chrysotile Amosite
PI3F	HFHA-PI3F-01 thru 03	High Pressure Steam Line Fitting/Elbow	1-66 14-16	Chrysotile Amosite
PI4	HFHA-PI4-01 thru 03	3" Pipe Insulation	ND	-
PI4F	HFHA-PI4F-01 thru 03	3" Pipe Fitting/Elbow	ND	-
TII2U	HFHA-TII2U-01 thru 03	Boiler 2, Tank Insulation, Upper Level	ND	-
TII3U	HFHA-TII3U-01 thru 03	Boiler 3, Tank Insulation, Upper Level	ND	-
VT1	HFHA-VT1-01	12" x 12" Tan Vinyl Tile with Tank Mastic	4	Chrysotile
VT2	HFHA-VT2-01 thru 02	12" x 12" Gray Vinyl Tile with Tan Mastic	ND	-
VT3	HFHA-VT3-01 thru 02	12" x 12" White Vinyl Tile with Tank Mastic	ND	-
WB1	HFHA-WB1-01 thru 09	Wallboard with Joint Compound Skim Coat	ND	-
WG1²	HFHA-WG1-01 thru 04	White/Gray Window Glazing, Interior	<1-3¹	Chrysotile

(Table Continues)

(Continued)

Homogenous Area	Sample Number(s)	Description	Percent	Type
WG2	HFHA-WG2-01	White Window Glazing, Interior	ND	-
WG3	HFHFA-WG3-01	White Window Glazing, Exterior	ND	-

ND = None Detected

Bold = Asbestos Containing Material

¹ Consider re-evaluating sample locations

² Blind field duplicate collected for this material

Materials testing greater than, or equal to 1 percent are considered regulated asbestos containing materials, and must be removed by a Washington State certified asbestos abatement contractor.

4. ASBESTOS CONTAINING MATERIAL SUMMARY

Table B-2 describes the ACM inventory. Due to the difficulty in determining which reaches of pipe were ACM versus non-ACM and the missing maintenance records, all pipe insulation unless fiberglass in its entirety is presumed to contain asbestos until proven otherwise.

The abatement/demolition contractor should verify all quantities given for accuracy.

Table B-2. Asbestos Containing Material Summary

Material Description	Location(s)	Substrate	Condition	Friable/Non-Friable	Estimated Quantity
All High Pressure Steam Line Insulation, Varies in Size	Throughout Interior and Exterior of Building	Metal	Fair to Poor	Friable	600 lf
12" x 12" Tan Vinyl Tile	Bathroom	Wood	Good	Non-Friable	98 sf
White/Gray Window Glazing	Windows in Boiler Room	Metal	Fair	Non-Friable	14 windows (8,352 lf)
Yellow Water Tank Insulation Exterior	Lower Water Tank on Boiler 1	Metal	Fair	Non-Friable	1,200 sf

4.1 SUSPECTED UTILADOR

During the field investigation inspectors observed piping penetrating the ground surface on two occasions. This piping was observed on the southwest entrance to the Caustic Room, and inside the Air Drying Room on the south side of the room. Although drawings could not be located detailing the extent of the underground piping system, it is presumed that an asbestos containing piping system (utilador) exists beneath the site.

4.2 PIPE INSULATION DEBRIS

Due to its damaged and poorly maintained nature, pipe insulation was observed in the following locations:

- Scattered on the ground inside the Boiler Room.
- On the interior siding, piping, and upper surfaces on the second level of the Boiler Room.
- On the roof of the building on Boiler 4.
- On the South side exterior of the Boiler Room in the fuel box.

Damaged pipe insulation (unless fiberglass in its entirety) should be presumed asbestos containing until proven otherwise.

5. PAINTED BUILDING COMPONENTS

A total of fifteen paint chip samples were collected (including one duplicate) from various locations throughout the building. Table B-3 lists analytical results for paint chips collected. Analytical reports are provided in Attachment B-2. Sample locations are shown in Attachment B-1.

Table B-3. Total Metals Content

Sample Number	Color	Substrate	Location	Result (mg/kg)
HFHL-01	Black/Gray	Metal	1955 Compressor	4,000
HFHL-02	Gray	Concrete	Pedestal and Walls	360
HFHL-03	Yellow	Metal	Caustic Vat and Interior/Exterior Railing	290
HFHL-04	Brown/Gray/Green	Metal	Beam and Railing	1,100
HFHL-05	Dark Gray	Metal	Boiler	<73
HFHL-06	White	Wallboard	Caustic Restroom	<93
HFHL-07	White	Wood, Brick	Lunch Room Walls	93,000
HFHL-08	White	Wood	Pipe Fitter's Office	<160
HFHL-09*	White	Wood	Pipe Fitter's Office	<170
HFHL-10	Gray	Brick	Compressor Room	570
HFHL-11	Gray/Sliver	Metal	1966 Compressor	96
HFHL-12	White	Brick, Wood	Multi-Purpose Room	830
HFHL-13	Tan	Metal	Building Exterior	<94
HFHL-14	White	Wood	Building Exterior	<94
HFHL-15	Green	Metal, Wood	Building Interior and Exterior	<90

* Blind Duplicate of HFHL-08
mg/kg = milligrams per kilogram

6. OTHER HAZARDOUS MATERIALS

Parametrix performed a brief assessment of polychlorinated biphenyl (PCB) containing fluorescent light ballasts. A single ballast was within reach and inspected, and was determined to be PCB containing since it did not contain the “No PCBs” labeling. The building contains approximately 23 ballasts, all of which are presumed to contain PCBs unless otherwise noted on the ballasts themselves. All ballasts should be checked prior to building demolition.

Although Parametrix was only tasked with identifying asbestos, lead paint, and PCB containing ballasts, other potentially hazardous materials were noted, below.

6.1 FLUORESCENT LIGHT TUBES

The building is illuminated using a combination of fluorescent lights and large high intensity discharge (HID) lighting. Fluorescent light tubes may contain small amounts of mercury. Approximately 46 individual tubes were observed in the building, including both the brick and metal portions of the building. One mercury vapor lamp was observed on the exterior roof. Tubes and lamps should be removed from the building prior to demolition.

6.2 CHEMICAL STORAGE

The majority of chemicals stored within the building were located in the Water Test Room in the brick portion of the building. It is unclear what the purpose of the water testing was, but is presumed to be for purification and clarification prior to entering the boiler system. Nevertheless, several chemicals were stockpiled including:

- Phenolphthalein Indicator
- Gallic Acid (for conductivity test)
- Hardness Buffer/Indicator (for softness test)
- Glycol
- Hardness Titrating Solution
- Potassium Solution with Nitric Acid

6.3 MISCELLANEOUS MATERIALS

Other materials encountered within the metal portion of the building included:

- One 55 gallon drum of suspected petroleum product on the second level above Boiler 4
- One 55 gallon drum of unknown and unmarked solution in the Caustic Room
- Crystalline caustic material on the inside and bottom of the vat in the Caustic Room
- Three large above-ground storage tanks with an unknown amount of chemicals including:
 - CORTROL IS3000
 - OPTISPERSE CL6124

➤ STEAMATE NA0640

- Fly ash generation area at the north end of Boiler 4.

7. INACCESSIBLE AREAS

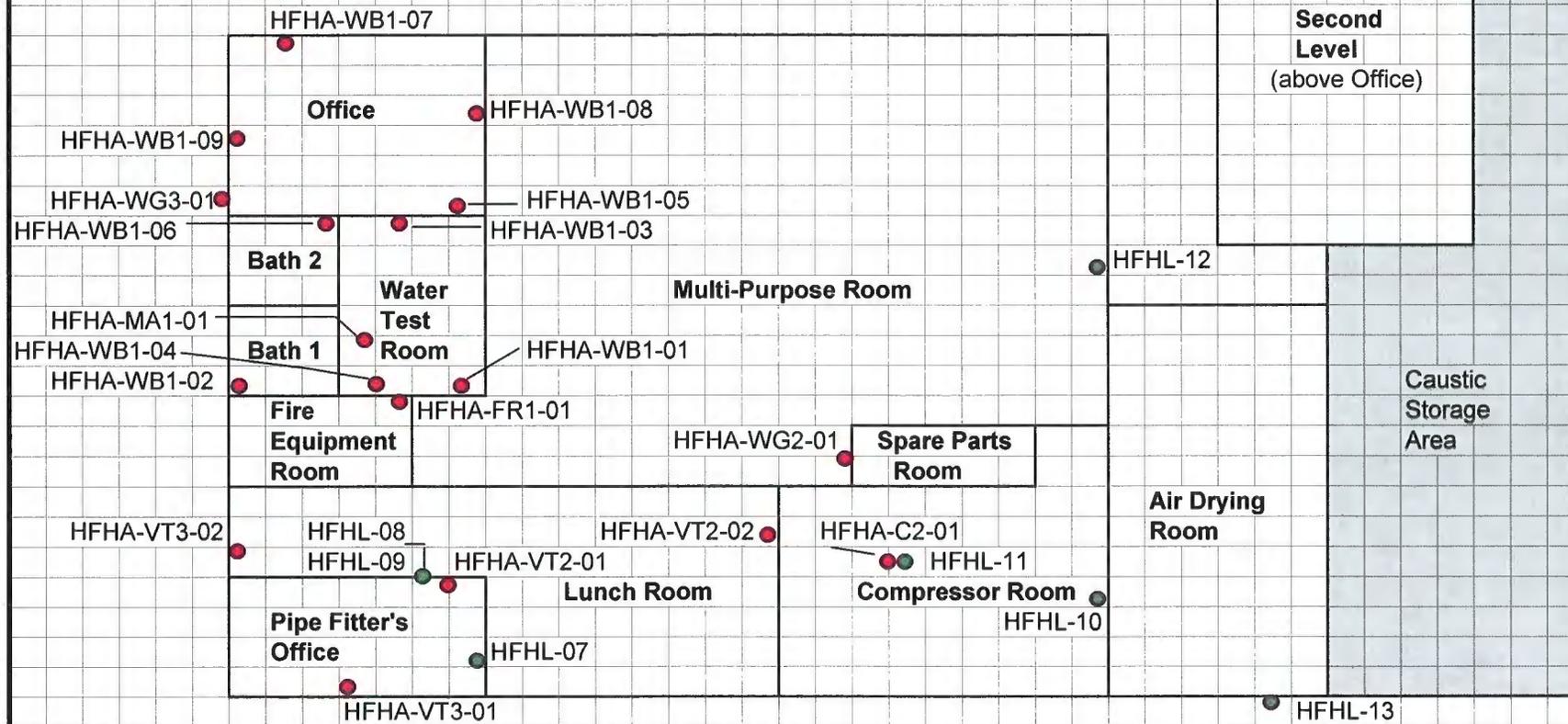
The following areas were not sampled as part of this investigation. Materials identified in this section should be considered asbestos containing until proven otherwise.

- Inspectors did not inspect buildings (i.e. Water Supply Building), areas, or materials outside of the Hog Fuel Boiler House Building. Significant amounts of piping were suspended on other structures and were observed connected to the building. Overhead and connected materials outside of the vicinity of the building were not included in the survey or the quantification estimate; however, materials existing on the roof or sides of the building were included.
- Penetrations on the roof were not sampled because all of the penetrations were located out of reach of the inspectors and could only be accessed with proper fall protection gear. Roof penetrations should be considered asbestos containing until proven otherwise.
- Inspectors observed piping penetrating the ground surface in two locations; however, inspectors were unable to locate the entrance to the utilidor system in the building vicinity. Materials present in the utilidor should be considered asbestos containing until proven otherwise.
- The Electrical Room on the northwestern side of the brick building appears to be recently constructed in the last three to four years. At the time of the survey inspectors could not access the room so it was not included in the survey.
- Fibrous gaskets were either missing or inaccessible on the boilers and associated water tanks. Most of the water tanks on the floor level could not be accessed.
- Asbestos containing padding may exist under the boilers; however, it could not be observed at the time of the inspection.

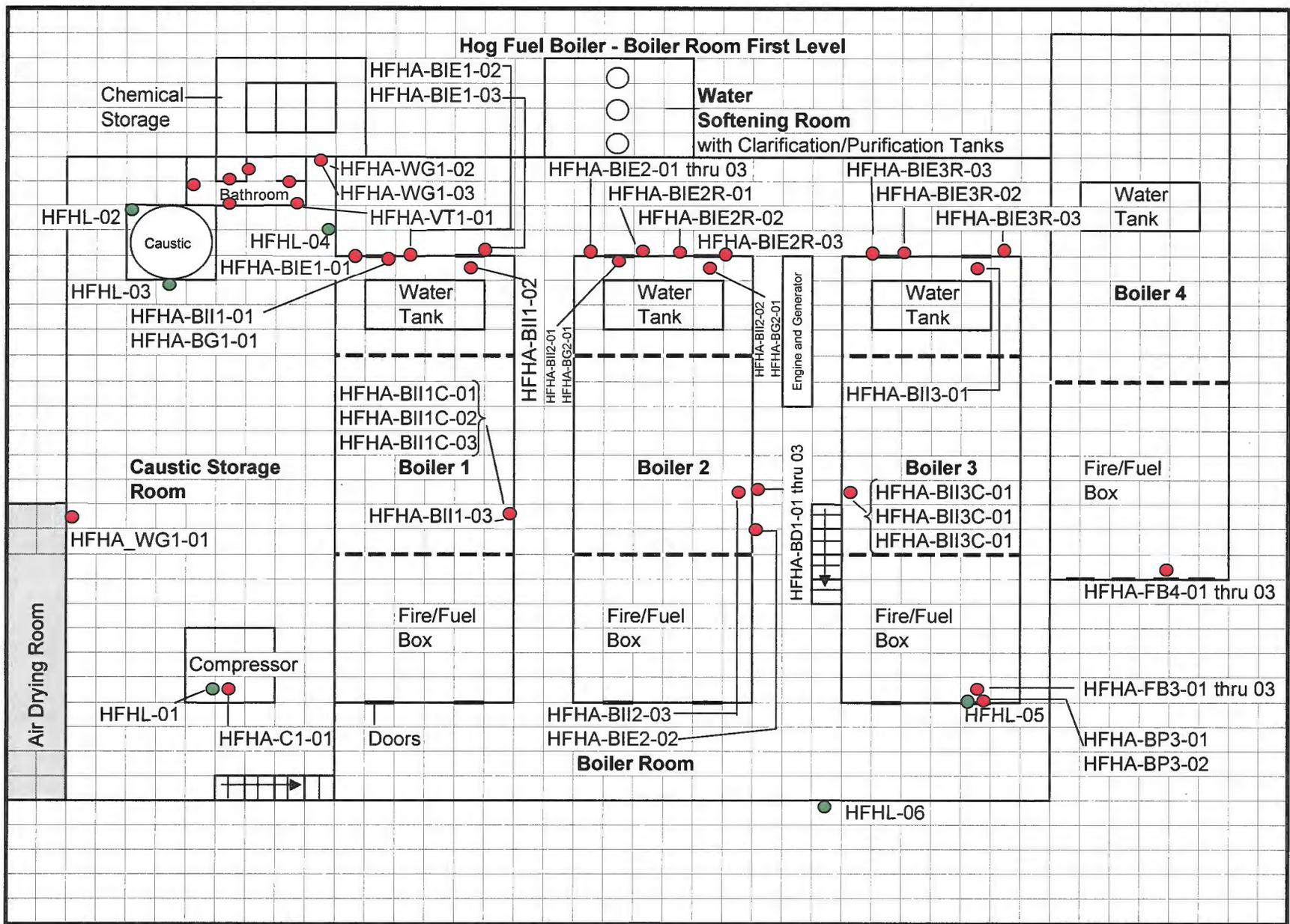
The inspectors made every attempt to access all areas of the building, but cannot make a statement about other suspect materials that may exist within the building that were concealed at the time of the inspection. Should the demolition contractor encounter suspect ACM during building demolition, samples should be collected and analyzed for asbestos content.

ATTACHMENT B-1
Sample Location Drawings
with Field Notes

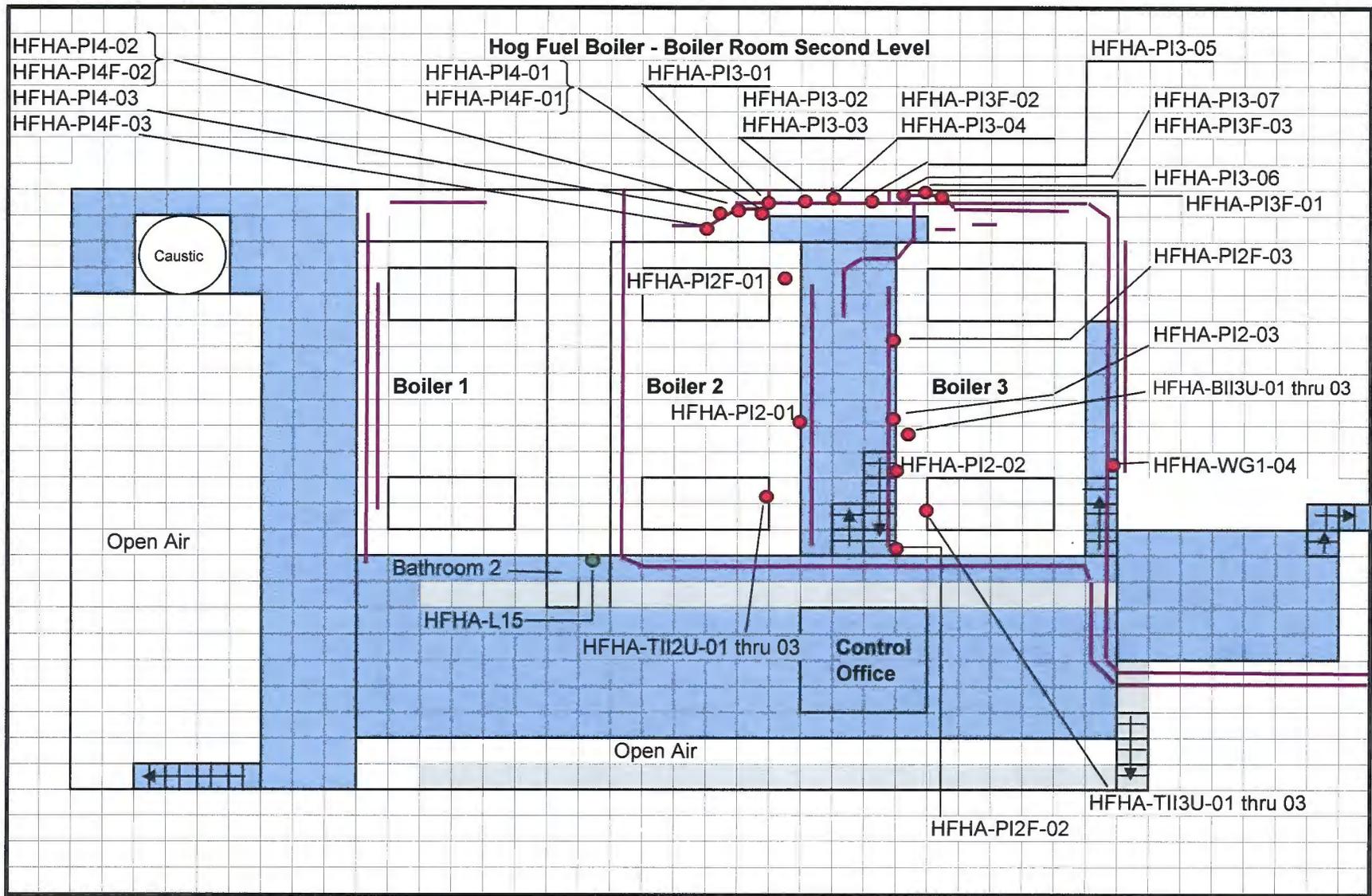
Hog Fuel Boiler House - Brick Building



Project Name	Yakima Resources	Legend	● Suspect ACM Sample Location	Included on adjacent map	N ↑
Project Number	555-5753-001		● Total Lead Sample Location		
Location	Brick Building	HFHA-WG1-01	Suspect ACM Sample Number		
Drawing Not to Scale		HGHL-01	Total Lead Sample Number		



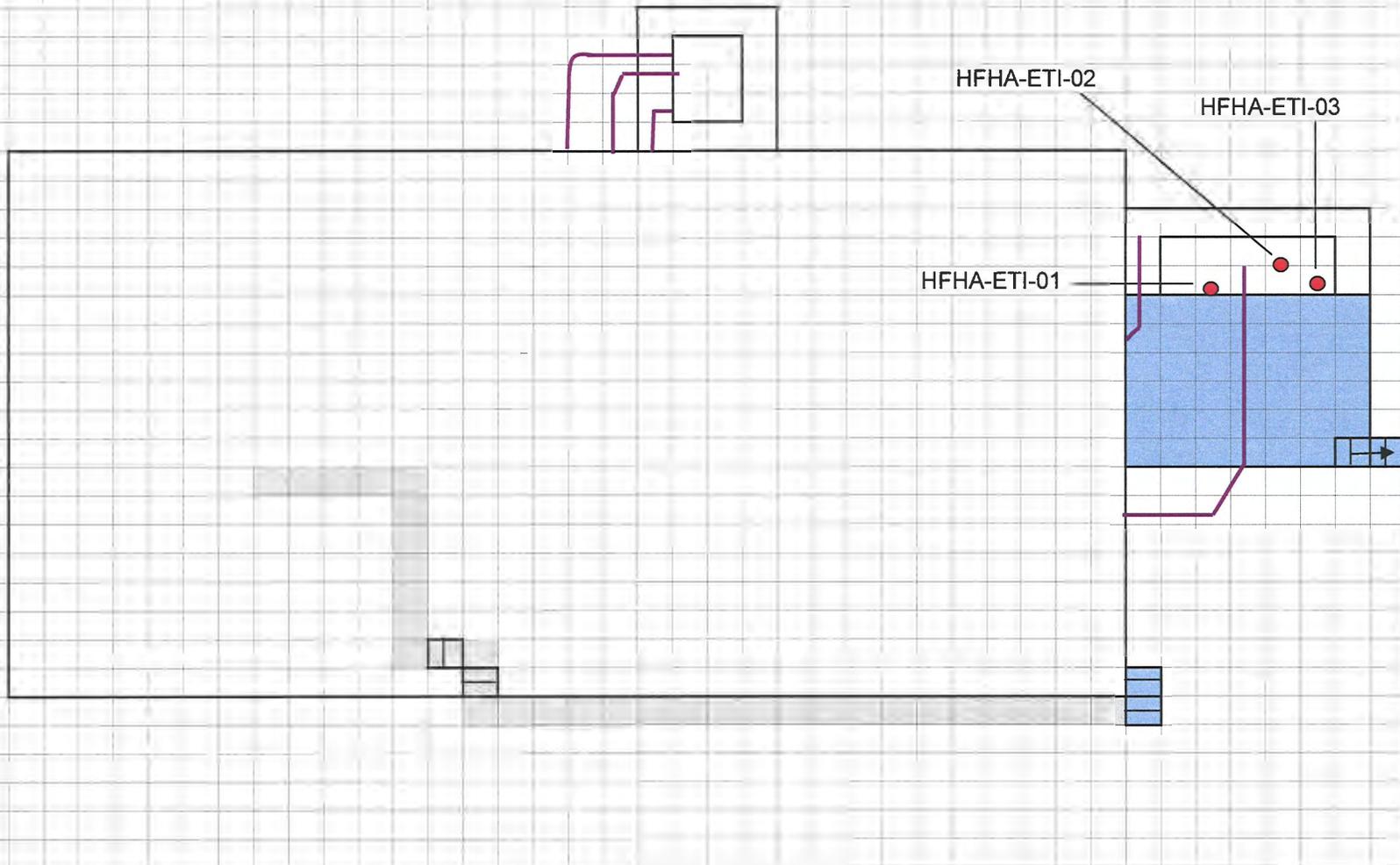
Project Name	Yakima Resources	Legend	● Suspect ACM Sample Location	Area on adjacent map	N
Project Number	555-5753-001		● Total Lead Sample Location	Contact	↑
Location	Boiler Room First Level	HFHA-WG1-01	Suspect ACM Sample Number	unknown	
Drawing Not to Scale		HFHL-01	Total Lead Sample Number		



*Note: Lines representing ACM piping are not intended to represent all piping observed during the survey and do not reflect vertical pipe runs or roof penetrations. For the purpose of this report, all piping (runs, fittings, and elbows) should be considered asbestos containing regardless of diameter or placarding unless obviously fiberglass.

Project Name	Yakima Resources	Legend	● Suspect ACM Sample Location	■ Walking Access	N ↑
Project Number	555-5753-001		● Total Lead Sample Location	■ Cat Walk	
Location	Boiler Room Second Level	HFHA-WG1-01	● Suspect ACM Sample Number	■ ACM Piping	
Drawing Not to Scale		HFHL-01	● Total Lead Sample Number		

Hog Fuel Boiler - Roof Level

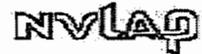


*Note: Lines representing ACM piping are not intended to represent all piping observed during the survey and do not reflect vertical pipe runs or roof penetrations. For the purpose of this report, all piping (runs, fittings, and elbows) should be considered asbestos containing regardless of diameter or placarding unless obviously fiberglass.

Project Name	Yakima Resources	Legend	● Suspect ACM Sample Location	■ Walking Access	N
Project Number	555-5753-001	HFHA-ETI-0*	Suspect ACM Sample Location	■ Catwalk	↑
Location	Boiler Room Roof Level			— ACM Piping	
Drawing Not to Scale					

ATTACHMENT B-2
Analytical Results and
Chain of Custody Forms

NVL Laboratories, Inc.



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Tel: 206.547.0100, Fax: 206.634.1936
www.nvllabs.com

For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
Address: 411 108th Ave. NE Ste 1800
Bellevue, WA 98004

Batch #: 2804620.00
Client Project #: 555-5730-001
Date Received: 04/11/2008
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Lab ID: 28027304 Client Sample #: HFHA-BP3-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Dark Gray brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	Cellulose 2%	None Detected ND

Lab ID: 28027305 Client Sample #: HFHA-BP3-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Dark Gray brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	Cellulose 2%	None Detected ND

Lab ID: 28027306 Client Sample #: HFHA-BG3-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Dark Gray sandy material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Mineral grains, Quartz, Binder/Filler	Cellulose <1%	None Detected ND

Lab ID: 28027307 Client Sample #: HFHA-JC1-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Off-white compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Calcareous particles, Paint/binder	Cellulose <1%	None Detected ND

Lab ID: 28027308 Client Sample #: HFHA-JC1-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Off-white compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Calcareous particles, Paint/binder	Cellulose <1%	None Detected ND

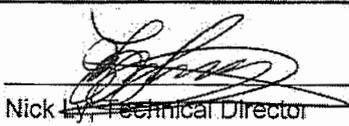
Sampled by: Client

Analyzed by: Sandra Baker

Reviewed by: Nick Ly

Date: 04/16/2008

Date: 04/16/2008


Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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www.nvllabs.com

For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
Address: 411 108th Ave. NE Ste 1800
Bellevue, WA 98004

Batch #: 2804620.00

Client Project #: 555-5730-001
Date Received: 04/11/2008
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Lab ID: 28027309 Client Sample #: HFHA-JC1-03

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Off-white compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Calcereous particles, Paint/binder	Cellulose <1%	None Detected ND

Lab ID: 28027310 Client Sample #: HFHA-JC1-04

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Off-white compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Calcereous particles, Paint/binder	None Detected ND	None Detected ND

Lab ID: 28027311 Client Sample #: HFHA-JC1-05

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Off-white compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Calcereous particles, Paint/binder	Cellulose <1%	None Detected ND

Lab ID: 28027312 Client Sample #: HFHA-B3B-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Gray sandy material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Mineral grains, Quartz, Binder/Filler	None Detected ND	None Detected ND

Lab ID: 28027313 Client Sample #: HFHA-B3B-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Gray sandy material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Mineral grains, Quartz, Binder/Filler	Cellulose <1%	None Detected ND

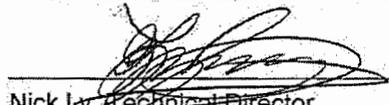
Sampled by: Client

Analyzed by: Sandra Baker

Reviewed by: Nick Ly

Date: 04/16/2008

Date: 04/16/2008


Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
Address: 411 108th Ave. NE Ste 1800
Bellevue, WA 98004

Batch #: 2804620.00

Client Project #: 555-5730-001
Date Received: 04/11/2008
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Lab ID: 28027314 Client Sample #: HFHA-B3B-03

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Gray sandy material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Mineral grains, Quartz, Binder/Filler	Cellulose <1%	None Detected ND

Lab ID: 28027315 Client Sample #: HFHA-BIE3R-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Red sandy material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Mineral grains, Quartz, Binder/Filler	Cellulose <1%	None Detected ND

Lab ID: 28027316 Client Sample #: HFHA-BIE3R-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Red sandy material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Mineral grains, Quartz, Binder/Filler	Cellulose <1%	None Detected ND

Lab ID: 28027317 Client Sample #: HFHA-BIE3R-03

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Red sandy material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Mineral grains, Quartz, Binder/Filler	Cellulose <1%	None Detected ND

Lab ID: 28027318 Client Sample #: HFHA-BII3-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Gray sandy material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Mineral grains, Quartz, Binder/Filler	Cellulose <1%	None Detected ND

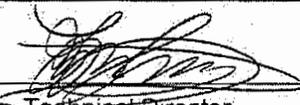
Sampled by: Client

Analyzed by: Sandra Baker

Reviewed by: Nick Ly

Date: 04/16/2008

Date: 04/16/2008


Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix

Address: 411 108th Ave. NE Ste 1800
 Bellevue, WA 98004

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Batch #: 2804620.00

Client Project #: 555-5730-001

Date Received: 04/11/2008

Samples Received: 30

Samples Analyzed: 30

Method: EPA/600R-93/116

Lab ID: 28027319 Client Sample #: HFHA-PI1-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2 Description: Tan paper with foil

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	Cellulose 65%	None Detected ND
	Glass fibers 25%	

Layer 2 of 2 Description: Yellow fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	Cellulose <1%	None Detected ND
	Glass fibers 98%	

Lab ID: 28027320 Client Sample #: HFHA-PI1-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2 Description: Tan paper with foil

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	Cellulose 65%	None Detected ND
	Glass fibers 25%	

Layer 2 of 2 Description: Yellow fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	Glass fibers 99%	None Detected ND

Lab ID: 28027321 Client Sample #: HFHA-PI1-03

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2 Description: Tan paper with foil

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	Cellulose 65%	None Detected ND
	Glass fibers 25%	

Sampled by: Client

Analyzed by: Sandra Baker

Reviewed by: Nick Ly

Date: 04/16/2008

Date: 04/16/2008

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix

Address: 411 108th Ave. NE Ste 1800
Bellevue, WA 98004

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Batch #: 2804620.00

Client Project #: 555-5730-001

Date Received: 04/11/2008

Samples Received: 30

Samples Analyzed: 30

Method: EPA/600R-93/116

Layer 2 of 2	Description: Yellow fibrous material	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Binder/Filler	Glass fibers 98%	None Detected ND

Lab ID: 28027322 Client Sample #: HFHA-CI-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1	Description: Black/Gray brittle paint material	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Paint/binder	Cellulose <1%	None Detected ND

Lab ID: 28027323 Client Sample #: HFHA-CB1-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2	Description: Brown rubbery material	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Rubber/binder	None Detected ND	None Detected ND

Layer 2 of 2	Description: Cream soft mastic	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Mastic/binder	Cellulose 3%	None Detected ND

Lab ID: 28027324 Client Sample #: HFHA-VT1-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2	Description: Beige with Tan streaks floor tile	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Mineral grains, Vinyl/binder	None Detected ND	Chrysotile 4%

Layer 2 of 2	Description: Yellow soft mastic	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Mastic/binder	Cellulose 3%	None Detected ND

Lab ID: 28027325 Client Sample #: HFHA-WG1-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

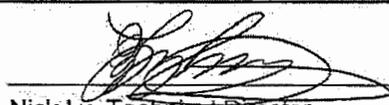
Sampled by: Client

Analyzed by: Sandra Baker

Reviewed by: Nick Ly

Date: 04/16/2008

Date: 04/16/2008


Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
 Address: 411 108th Ave. NE Ste 1800
 Bellevue, WA 98004

Batch #: 2804620.00
 Client Project #: 555-5730-001
 Date Received: 04/11/2008
 Samples Received: 30
 Samples Analyzed: 30
 Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Light Gray brittle material
 Non-Fibrous Materials: Putty Compound, Binder/Filler
 Other Fibrous Materials: % None Detected ND
Asbestos Type: %
Chrysotile 3%

Lab ID: 28027326 Client Sample #: HFHA-WG1-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Gray brittle material
 Non-Fibrous Materials: Putty Compound, Binder/Filler
 Other Fibrous Materials: % Cellulose <1%
Asbestos Type: %
Chrysotile <1%

Lab ID: 28027327 Client Sample #: HFHA-WG1-03

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Gray brittle material
 Non-Fibrous Materials: Putty Compound, Binder/Filler
 Other Fibrous Materials: % Cellulose <1%
Asbestos Type: %
None Detected ND

Lab ID: 28027328 Client Sample #: HFHA-WG1-04

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Gray brittle material
 Non-Fibrous Materials: Putty Compound, Binder/Filler
 Other Fibrous Materials: % Cellulose <1%
Asbestos Type: %
Chrysotile 2%

Lab ID: 28027329 Client Sample #: HFHA-WG2-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Light Gray brittle material
 Non-Fibrous Materials: Putty Compound, Binder/Filler
 Other Fibrous Materials: % Cellulose <1%
Asbestos Type: %
None Detected ND

Lab ID: 28027330 Client Sample #: HFHA-WG3-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Sampled by: Client
Analyzed by: Sandra Baker
Reviewed by: Nick Ly
Date: 04/16/2008
Date: 04/16/2008
 Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
 Address: 411 108th Ave. NE Ste 1800
 Bellevue, WA 98004

Batch #: 2804620.00
 Client Project #: 555-5730-001
 Date Received: 04/11/2008
 Samples Received: 30
 Samples Analyzed: 30
 Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse
 Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1	Description: Light Gray brittle material	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Putty Compound, Binder/Filler	Cellulose <1%	None Detected ND

Lab ID: 28027331 Client Sample #: HFHA-MA-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2	Description: Brown flat hard compressed fibrous material with surface	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Binder/Filler	Cellulose 75%	None Detected ND

Layer 2 of 2	Description: Yellow soft mastic	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Mastic/binder	Cellulose 10%	None Detected ND

Lab ID: 28027332 Client Sample #: HFHA-C2-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1	Description: Multi-color flaky paint	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Paint/binder	Cellulose 3%	None Detected ND

Lab ID: 28027333 Client Sample #: HFHA-FR1-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1	Description: Black/Red flaky material	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Asphalt, Binder/Filler	Cellulose <1%	None Detected ND

Sampled by: Client
Analyzed by: Sandra Baker **Date:** 04/16/2008
Reviewed by: Nick Ly **Date:** 04/16/2008 
 Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103

Tel: 206.547.0100 Emerg. Pager: 206.344.1878

Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

Client Parametrix
Street 411 106th Ave NE Ste 1800
Bellevue, WA 98004

NVL Batch Number
Client Job Number 555-5720-001
Total Samples 15

Project Manager Kurt Easthouse
Project Location Yakima Resources - Ho Fuel
Boiler Bldg

Turn Around Time
1-Hr 24-Hrs 4 Days
2-Hrs 2 Days 5 Days
4-Hrs 3 Days 6 to 10 Days

Email address mwilloughby@parametrix.com
Please call for TAT less than 24 Hrs

Phone: (425) 458-6200 Fax: (425) 458-6363

Asbestos Air, PCM (NIOSH 7400), TEM (NIOSH 7402), TEM (AHERA), TEM (EPA Level II), Other
Asbestos Bulk, PLM (EPA/600/R-93/116), PLM (EPA Point Count), PLM (EPA Gravimetry), TEM Bulk
Mold/Fungus, Mold Air, Mold Bulk, Rotometer Calibration
METALS: Total Metals, TCLP, Inst./Det Limit, Matrix, RCRA Metals, Other Metals
Other Types of Analysis: Fiberglass, Nuisance Dust, Other (Specify), Silica, Respirable Dust

Condition of Package: Good, Damaged (no spillage), Severe damage (spillage)

Table with 5 columns: Seq. #, Lab ID, Client Sample Number, Comments (e.g Sample area, Sample Volume, etc), A/R. Contains 15 rows of sample data.

Table with 5 columns: Print Below, Sign Below, Company, Date, Time. Contains signature and date information for various stages: Sampled by, Relinquished by, Received by, Analyzed by, Results Called by, Results Faxed by.

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg. Pager: 206.344.1878
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**

BATCH ID
2804620.00

Client Parametrix
 Street 411 106th Ave NE Ste 1800
Bellevue, WA 98004
 Project Manager Kurt Easthouse
 Project Location Yakima Resources - Hog Fuel
Boyer Bldg

NVL Batch Number _____
 Client Job Number 555-5730-001
 Total Samples 15
 Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Phone: (425) 458-10200 Fax: (425) 458-6363

Please call for TAT less than 24 Hrs
 Email address mwilton@nvlparametrix.com

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other _____
<input type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM Bulk	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Inst./Det Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Selenium (Se)	<input type="checkbox"/> Copper (Cu)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Silver (Ag)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Soil	<input type="checkbox"/> Chromium (Cr)		<input type="checkbox"/> Zinc (Zn)
		<input type="checkbox"/> Paint Chips in %	<input type="checkbox"/> Lead (Pb)		
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Other (Specify) _____		
	<input type="checkbox"/> Silica	<input type="checkbox"/> Respirable Dust			

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		HFHA-PEI-01	Silver paper w/ fg insulation	
2		HFHA-PEI-02		
3		HFHA-PEI-03	↓	
4		HFHA-C1-01	Black/Gray Compressor paint	
5		HFHA-CB1-01	Tan/White mastic assoc w/ brn CB	
6		HFHA-VT1-01	12'x12' tan VT w/ tan mastic	
7		HFHA-WG1-01	White window area, caustic rm	
8		HFHA-WG1-02	gray WG, caustic rm	
9		HFHA-WG1-03	gray WG, multi purpose rm caustic rm	
10		HFHA-WG1-04	gray WG, boiler rm	
11		HFHA-WG2-01	White WG, multi purpose rm	
12		HFHA-WG3-01	White WG, exterior brick wall	
13		HFHA-MA-01	Formica mastic	
14		HFHA-C2-01	Black/Gray/Silver Compressor paint	
15		HFHA-FR1-01	Fire Retardant - black	

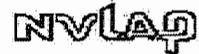
	Print Below	Sign Below	Company	Date	Time
Sampled by	<u>Ara Lindo</u>	<u>Ara Lindo</u>	<u>PMX</u>	<u>7/8-4/10/08</u>	
Relinquished by	<u>Ara Lindo</u>	<u>Ara Lindo</u>	<u>PMX</u>	<u>7/10/08</u>	
Received by	<u>Shaista Khan</u>	<u>Shaista Khan</u>	<u>NVA</u>	<u>7/11/08</u>	<u>10:30 AM</u>
Analyzed by	<u>Sandra Baker</u>	<u>Sandra Baker</u>	<u>ML</u>	<u>7-16-08</u>	<u>8:45 AM</u>
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

pg 2 of 2

NVL Laboratories, Inc.

4708 Aurora Ave. N., Seattle, WA 98103
Tel: 206.547.0100, Fax: 206.634.1936
www.nvllabs.com



For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By: Polarized Light Microscopy

Client: Parametrix
Address: 411 108th Ave. NE Ste 1800
Bellevue, WA 98004

Batch #: 2804621.00
Client Project #: 555-5730-001
Date Received: 04/11/2008
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Lab ID: 28027334 Client Sample #: HFHA-VT2-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer	Description	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Layer 1 of 2	Gray with white streaks floor tile	Mineral grains, Vinyl/binder	None Detected ND	None Detected ND
Layer 2 of 2	Yellow soft mastic	Mastic/binder	Cellulose 6%	None Detected ND

Lab ID: 28027335 Client Sample #: HFHA-VT2-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer	Description	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Layer 1 of 2	Gray with white streaks floor tile	Mineral grains, Vinyl/binder	None Detected ND	None Detected ND
Layer 2 of 2	Yellow soft mastic	Mastic/binder	Cellulose 8%	None Detected ND

Lab ID: 28027336 Client Sample #: HFHA-VT3-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer	Description	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Layer 1 of 2	Light Gray floor tile	Mineral grains, Vinyl/binder	None Detected ND	None Detected ND
Layer 2 of 2	Yellow soft mastic	Mastic/binder	Cellulose 4%	None Detected ND

Lab ID: 28027337 Client Sample #: HFHA-VT3-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

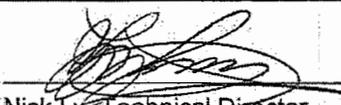
Sampled by: Client

Analyzed by: Sandra Baker

Reviewed by: Nick Ly

Date: 04/16/2008

Date: 04/16/2008


Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
 Address: 411 108th Ave. NE Ste 1800
 Bellevue, WA 98004

Batch #: 2804621.00
 Client Project #: 555-5730-001
 Date Received: 04/11/2008
 Samples Received: 15
 Samples Analyzed: 15
 Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2	Description: Light Gray floor tile	Non-Fibrous Materials: Mineral grains, Vinyl/binder	Other Fibrous Materials:% None Detected ND	Asbestos Type: % None Detected ND
Layer 2 of 2	Description: Yellow soft mastic	Non-Fibrous Materials: Mastic/binder	Other Fibrous Materials:% Cellulose 3%	Asbestos Type: % None Detected ND

Lab ID: 28027338 Client Sample #: HFHA-WB1-01

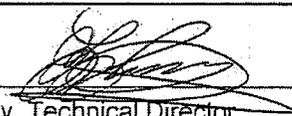
Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 3	Description: White compacted powdery material with paint	Non-Fibrous Materials: Calcareous particles, Paint/binder	Other Fibrous Materials:% Cellulose 2%	Asbestos Type: % None Detected ND
Layer 2 of 3	Description: White compacted powdery material with paper	Non-Fibrous Materials: Calcareous particles, Binder/Filler	Other Fibrous Materials:% Cellulose 10%	Asbestos Type: % None Detected ND
Layer 3 of 3	Description: White chalky material with paper	Non-Fibrous Materials: Fine particles, Gypsum/binder	Other Fibrous Materials:% Cellulose 30% Glass fibers 8%	Asbestos Type: % None Detected ND

Lab ID: 28027339 Client Sample #: HFHA-WB1-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2	Description: White compacted powdery material with paint	Non-Fibrous Materials: Calcareous particles, Paint/binder	Other Fibrous Materials:% Cellulose 2%	Asbestos Type: % None Detected ND
Layer 2 of 2	Description: White chalky material with paper	Non-Fibrous Materials: Fine particles, Gypsum/binder	Other Fibrous Materials:% Cellulose 35% Glass fibers 7%	Asbestos Type: % None Detected ND

<p>Sampled by: Client</p> <p>Analyzed by: Sandra Baker</p> <p>Reviewed by: Nick Ly</p>	<p>Date: 04/16/2008</p> <p>Date: 04/16/2008</p>	 <p>Nick Ly, Technical Director</p>
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Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
 Address: 411 108th Ave. NE Ste 1800
 Bellevue, WA 98004

Batch #: 2804621.00
 Client Project #: 555-5730-001
 Date Received: 04/11/2008
 Samples Received: 15
 Samples Analyzed: 15
 Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse
 Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Lab ID: 28027340 Client Sample #: HFHA-WB1-03

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2	Description: White compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Calcareous particles, Paint/binder	Cellulose 2%		None Detected ND
Layer 2 of 2	Description: White chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Fine particles, Gypsum/binder	Cellulose 33%		None Detected ND
		Glass fibers 8%		

Lab ID: 28027341 Client Sample #: HFHA-WB1-04

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1	Description: White chalky material with paper and paint			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Fine particles, Gypsum/binder, Paint	Cellulose 35%		None Detected ND
		Glass fibers 7%		

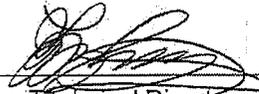
Lab ID: 28027342 Client Sample #: HFHA-WB1-05

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2	Description: White compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Calcareous particles, Paint/binder	Cellulose 2%		None Detected ND
Layer 2 of 2	Description: White chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Fine particles, Gypsum/binder	Cellulose 35%		None Detected ND
		Glass fibers 7%		

Lab ID: 28027343 Client Sample #: HFHA-WB1-06

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Sampled by: Client		
Analyzed by: Sandra Baker	Date: 04/16/2008	
Reviewed by: Nick Ly	Date: 04/16/2008	

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
 Address: 411 108th Ave. NE Ste 1800
 Bellevue, WA 98004

Batch #: 2804621.00
 Client Project #: 555-5730-001
 Date Received: 04/11/2008
 Samples Received: 15
 Samples Analyzed: 15
 Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: White chalky material with paper and paint

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Fine particles, Gypsum/binder, Paint	Cellulose 34%	None Detected ND
	Glass fibers 5%	

Lab ID: 28027344 Client Sample #: **HFHA-WB1-07**
 Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2 Description: White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Calcareous particles, Paint/binder	Cellulose 2%	None Detected ND

Layer 2 of 2 Description: White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Fine particles, Gypsum/binder	Cellulose 35%	None Detected ND
	Glass fibers 8%	

Lab ID: 28027345 Client Sample #: **HFHA-WB1-08**
 Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2 Description: White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Calcareous particles, Paint/binder	Cellulose <1%	None Detected ND

Layer 2 of 2 Description: White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Fine particles, Gypsum/binder	Cellulose 35%	None Detected ND
	Glass fibers 7%	

Lab ID: 28027346 Client Sample #: **HFHA-WB1-09**
 Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2 Description: White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Calcareous particles, Paint/binder	Cellulose <1%	None Detected ND

Sampled by: Client	
Analyzed by: Sandra Baker	Date: 04/16/2008
Reviewed by: Nick Ly	Date: 04/16/2008


 Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
Address: 411 108th Ave. NE Ste 1800
Bellevue, WA 98004

Batch #: 2804621.00
Client Project #: 555-5730-001
Date Received: 04/11/2008
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse
Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 2 of 2	Description: White chalky material with paper		
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
	Fine particles, Gypsum/binder	Cellulose 35%	None Detected ND
		Glass fibers 7%	

Lab ID: 28027347 Client Sample #: HFHA-BG1-01
Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1	Description: Black solid gasket material		
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
	Binder/Filler	Cellulose <1%	None Detected ND

Lab ID: 28027348 Client Sample #: HFHA-BG2-02
Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1	Description: Black solid gasket material		
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
	Binder/Filler	Cellulose <1%	None Detected ND

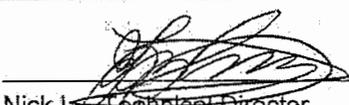
Sampled by: Client

Analyzed by: Sandra Baker

Reviewed by: Nick Ly

Date: 04/16/2008

Date: 04/16/2008


Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg. Pager: 206.344.1878
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**

BATCH ID
2804621.00

Client Parametrix
 Street 411 108th Ave NE Ste 1800
Bellevue, WA 98004

NVL Batch Number _____

Client Job Number 565-5730-001

Total Samples 15

Project Manager Kurt Easthouse

Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Project Location Yakima Resources - Hot Fuel
Boiler Bldg

Please call for TAT less than 24 Hrs
 Email address mwilloughby@parametrix.com

Phone: (425) 458-1020 Fax: (425) 458-6363

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other _____
<input type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM Bulk	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Inst./Det Limit	Matrix	RCRA Metals	<input type="checkbox"/> All R	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Selenium (Se)	<input type="checkbox"/> Copper (Cu)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Silver (Ag)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Soil	<input type="checkbox"/> Chromium (Cr)		<input type="checkbox"/> Zinc (Zn)
		<input type="checkbox"/> Paint Chips in %	<input type="checkbox"/> Lead (Pb)		
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Other (Specify) _____		
	<input type="checkbox"/> Silica	<input type="checkbox"/> Respirable Dust			

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		HFHA-VT2-01	12"x12" Gray VT w/ tan mastic	
2		HFHA-VT2-02	↓	
3		HFHA-VT3-01	12"x12" White VT w/ tan mastic	
4		HFHA-VT3-02	↓	
5		HFHA-WB1-01	WB w/ JC skim coat	
6		HFHA-WB1-02		
7		HFHA-WB1-03		
8		HFHA-WB1-04		
9		HFHA-WB1-05		
10		HFHA-WB1-06		
11		HFHA-WB1-07		
12		HFHA-WB1-08		
13		HFHA-WB1-09	↓	
14		HFHA-BG1-01	Black boiler gasket, Boiler 1	
15		HFHA-BG2-02	Black boiler gasket, Boiler 2	

	Print Below	Sign Below	Company	Date	Time
Sampled by	Lara Lindell	Lara Lindell	PMX	4/8/08	
Relinquished by	Lara Lindell	Lara Lindell	PMX	4/10/08	
Received by	SARITA KATAW	Sarita Kataw	NIL	4/11/08	1030 AM
Analyzed by	SARITA KATAW	Sarita Kataw	NIL	4/16/08	11:50 AM
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

NVL Laboratories, Inc.

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 Tel: 206.547.0100 Emerg. Pager: 206.344.1878
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**



Client Parametrix
 Street 411 105th Ave NE Ste 1800
Bellevue, WA 98004
 Project Manager Kurt Easthouse
 Project Location Yakima Resources - NE Bldg

NVL Batch Number _____
 Client Job Number 555-5730-001
 Total Samples 2
 Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Phone: (425) 458-6200 Fax: (425) 458-6363

Please call for TAT less than 24 Hrs
 Email address mwilloughby@parametrix.com

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other _____
<input type="checkbox"/> Asbestos Bulk	<input type="checkbox"/> LM (EPA/600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (EPA Gravimetry) <input type="checkbox"/> TEM Bulk				
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Inst./Det Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input checked="" type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Selenium (Se)	<input type="checkbox"/> Copper (Cu)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Silver (Ag)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Soil	<input type="checkbox"/> Chromium (Cr)		<input type="checkbox"/> Zinc (Zn)
		<input type="checkbox"/> Paint Chips in %	<input type="checkbox"/> Lead (Pb)		
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Other (Specify) _____		
	<input type="checkbox"/> Silica	<input type="checkbox"/> Respirable Dust			

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		NGHL-01	Blue door paint	
2		NGHL-02	White wall paint	
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	<u>Lara Lind</u>	<u>[Signature]</u>	<u>PMX</u>	<u>4/10/08</u>	
Relinquished by	<u>Lara Lind</u>	<u>[Signature]</u>	<u>PMX</u>	<u>4/10/08</u>	
Received by					
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
Remove from substrate where necessary.

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103

Tel: 206.547.0100 Emerg. Pager: 206.344.1878

Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
SAMPLE LOG**



Client Parametrix
Street 411 108th Ave NE Ste 1800
Bellevue, WA 98004

NVL Batch Number _____

Client Job Number 655-5730-001

Total Samples 15

Project Manager Kurt Easthouse

Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Project Location Yakima Resources - Ho Fuel

Boiler Bldg

Please call for TAT less than 24 Hrs
Email address mwiloughby@parametrix.com

Phone: (425) 458-6200 Fax: (425) 458-6363

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other _____
<input type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM Bulk	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Inst./Det Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Selenium (Se)	<input type="checkbox"/> Copper (Cu)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Silver (Ag)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Soil	<input type="checkbox"/> Chromium (Cr)		<input type="checkbox"/> Zinc (Zn)
		<input type="checkbox"/> Paint Chips in %	<input type="checkbox"/> Lead (Pb)		
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Other (Specify) _____		
	<input type="checkbox"/> Silica	<input type="checkbox"/> Respirable Dust			

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		HFHA-BP3-01	Gray Boiler Paint, Boiler 3	
2		HFHA-BP3-02	↓	
3		HFHA-BG3-01	Black Boiler Gasket, Boiler 3	
4		HFHA-JC1-01	Joint compound, Bathroom	
5		HFHA-JC1-02		
6		HFHA-JC1-03		
7		HFHA-JC1-04		
8		HFHA-JC1-05	↓	
9		HFHA-B3B-01	Brick boiler liner, Boiler 3	
10		HFHA-B3B-02	↓	
11		HFHA-B3B-03	↓	
12		HFHA-BIE3R-01	Red water tank room insulation, Boiler 3 ext	
13		HFHA-BIE3R-02	↓	
14		HFHA-BIE3R-03	↓	
15		HFHA-BIE3-01	Yellow water tank room insulation, Boiler 3 int.	

	Print Below	Sign Below	Company	Date	Time
Sampled by	Lara Lindley	Lara Lindley	PMX	4/4/08	
Relinquished by	Lara Lindley	Lara Lindley	PMX	4/10/08	
Received by					
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

NVL Laboratories, Inc.

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 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**



Client Parametrix
 Street 411 108th Ave NE Ste 1800
Bellevue, WA 98004

NVL Batch Number _____
 Client Job Number 555-5730-001
 Total Samples 15

Project Manager Kurt Easthouse
 Project Location Yakima Resources - Hog Fuel
Border Bldg

Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Please call for TAT less than 24 Hrs
 Email address mwilloughby@parametrix.com

Phone: (425) 458-6200 Fax: (425) 458-6363

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other _____
<input type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM Bulk	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Inst./Det Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Selenium (Se)	<input type="checkbox"/> Copper (Cu)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Silver (Ag)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Soil	<input type="checkbox"/> Chromium (Cr)		<input type="checkbox"/> Zinc (Zn)
		<input type="checkbox"/> Paint Chips in %	<input type="checkbox"/> Lead (Pb)		
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Other (Specify) _____		
	<input type="checkbox"/> Silica	<input type="checkbox"/> Respirable Dust			

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		HFHA-PI1-01	Silver paper w/ fg insulation	
2		HFHA-PI1-02		
3		HFHA-PI1-03		
4		HFHA-C1-01	Black/Gray compressor paint	
5		HFHA-CB1-01	Tan/White Mastic Assoc w/ brn CB	
6		HFHA-VT1-01	12'x12" tan VT w/ tan mastic	
7		HFHA-WG1-01	White window glazing, caustic rm	
8		HFHA-WG1-02	gray wg, caustic rm	
9		HFHA-WG1-03	gray wg, multi purpose rm caustic rm	
10		HFHA-WG1-04	gray wg, boiler rm	
11		HFHA-WG2-01	White WG, multi purpose rm	
12		HFHA-WG3-01	White WG, exterior brick wall	
13		HFHA-MA-01	Formica mastic	
14		HFHA-C2-01	Black/Gray/Silver compressor paint	
15		HFHA-FR1-01	Fire Retardant - black	

	Print Below	Sign Below	Company	Date	Time
Sampled by	<u>Lara Lind</u>	<u>Lara Lind</u>	<u>PMX</u>	<u>4/8-4/10/09</u>	
Relinquished by	<u>Lara Lind</u>	<u>Lara Lind</u>	<u>PMX</u>	<u>4/12/09</u>	
Received by					
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

NVL Laboratories, Inc.

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 Tel: 206.547.0100 Emerg. Pager: 206.344.1878
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**



Client Parametrix
 Street 411 108th Ave NE Ste 1800
Bellevue, WA 98004

NVL Batch Number _____
 Client Job Number 555-5730-001
 Total Samples 15

Project Manager Kurt Easthouse
 Project Location Yakima Resources - Hoop Fuel
Boiler Bldg

Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Please call for TAT less than 24 Hrs
 Email address mwilloughby@parametrix.com

Phone: (425) 458-6200 Fax: (425) 458-6363

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other _____
<input type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM Bulk	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Inst./Det Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Selenium (Se)	<input type="checkbox"/> Copper (Cu)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Silver (Ag)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Soil	<input type="checkbox"/> Chromium (Cr)		<input type="checkbox"/> Zinc (Zn)
		<input type="checkbox"/> Paint Chips in %	<input type="checkbox"/> Lead (Pb)		
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Other (Specify) _____		
	<input type="checkbox"/> Silica	<input type="checkbox"/> Respirable Dust			

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		HFHA-VT2-01	12"x12" Gray VT w/ tan mastic	
2		HFHA-VT2-02	↓	
3		HFHA-VT3-01	12"x12" White VT w/ tan mastic	
4		HFHA-VT3-02	↓	
5		HFHA-WB1-01	WB w/ JC skim coat	
6		HFHA-WB1-02		
7		HFHA-WB1-03		
8		HFHA-WB1-04		
9		HFHA-WB1-05		
10		HFHA-WB1-06		
11		HFHA-WB1-07		
12		HFHA-WB1-08		
13		HFHA-WB1-09	↓	
14		HFHA-BG1-01	Black boiler gasket, Boiler 1	
15		HFHA-BG2-02	Black boiler gasket, Boiler 2	

	Print Below	Sign Below	Company	Date	Time
Sampled by	Lara Linde	Lara Linde	PMX	7/8-4/9/08	
Relinquished by	Lara Linde	Lara Linde	PMX	4/10/08	
Received by					
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg. Pager: 206.344.1878
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**



Client Parametrix
 Street 411 105th Ave NE Ste 1800
Bellevue, WA 98004

NVL Batch Number _____
 Client Job Number 555-5730-001
 Total Samples 10

Project Manager Kurt Easthouse
 Project Location Yukima Resources - NG Boiler Bldg

Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Email address mwilloughby@parametrix.com
 Please call for TAT less than 24 Hrs

Phone: (425) 458-6200 Fax: (425) 458-6363

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other _____
<input type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (EPA Gravimetry) <input type="checkbox"/> TEM Bulk				
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air <input type="checkbox"/> Mold Bulk <input type="checkbox"/> Rotometer Calibration				
METALS	Inst./Det Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Selenium (Se)	<input type="checkbox"/> Copper (Cu)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Silver (Ag)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Soil	<input type="checkbox"/> Chromium (Cr)		<input type="checkbox"/> Zinc (Zn)
		<input type="checkbox"/> Paint Chips in %	<input type="checkbox"/> Lead (Pb)		
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass <input type="checkbox"/> Nuisance Dust <input type="checkbox"/> Other (Specify) _____ <input type="checkbox"/> Silica <input type="checkbox"/> Respirable Dust				

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		NGHA-PI1-01	Boiler Feed Insulation	
2		NGHA-PI1-02	↓	
3		NGHA-PI1-03	↓	
4		NGHA-PI2-01	High Press Steam Insulation	
5		NGHA-PI2-02	↓	
6		NGHA-PI2-03	↓	
7		NGHA-PI2-04	↓	
8		NGHA-BG1-01	Boiler Gasket	
9		NGHA-CB1-01	White mastic assoc w/ brn CB	
10		NGHA-BP1-01	Blue boiler paint	
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	Lara Lindley	Lara Lindley	PRX	4/10/08	
Relinquished by	Lara Lindley	Lara Lindley	PRX	4/10/08	
Received by					
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

NVL Laboratories, Inc.

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 Tel: 206.547.0100 Emerg. Pager: 206.344.1878
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**



Client Parametrix
 Street 411 108th Ave NE Ste 1800
Bellevue, WA 98004

NVL Batch Number _____
 Client Job Number 565-5730-001

Total Samples 15

Project Manager Kurt Easthouse
 Project Location Yakima Resources - Fuel

Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Email address mmwilloughby@parametrix.com
 Please call for TAT less than 24 Hrs

Phone: (425) 458-6200 Fax: (425) 458-6363

Asbestos Air PCM (NIOSH 7400) TEM (NIOSH 7402) TEM (AHERA) TEM (EPA Level II) Other _____

Asbestos Bulk PLM (EPA/600/R-93/116) PLM (EPA Point Count) PLM (EPA Gravimetry) TEM Bulk

Mold/Fungus Mold Air Mold Bulk Rotometer Calibration

METALS	Inst./Det Limit	Matrix	RCRA Metals	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Copper (Cu)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Soil	<input type="checkbox"/> Chromium (Cr)	<input type="checkbox"/> Zinc (Zn)
		<input type="checkbox"/> Paint Chips in %	<input type="checkbox"/> Lead (Pb)	

Other Types of Analysis Fiberglass Nuisance Dust Other (Specify) _____
 Silica Respirable Dust

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		HFHA-TI3U-01	Boiler 3, tank insulation, upper level	
2		HFHA-TI3U-02	↓	
3		HFHA-TI3U-03	↓	
4		HFHA-ETI-01	Exterior tank insulation, Boiler 4	
5		HFHA-ETI-02	↓	
6		HFHA-ETI-03	↓	
7		HFHA-FB4-01	Fuel Box 4 int. insulation, Boiler 4	
8		HFHA-FB4-02	↓	
9		HFHA-FB4-03	↓	
10		HFHA-BIIC-01	Course interior insulation, Boiler 1	
11		HFHA-BIIC-02	↓	
12		HFHA-BIIC-03	↓	
13		HFHA-BI3U-01	Boiler 3, upper compartment, int. insulation	
14		HFHA-BI3U-02	↓	
15		HFHA-BI3U-03	↓	

	Print Below	Sign Below	Company	Date	Time
Sampled by	<u>Lara Lindle</u>	<u>Lara Lindle</u>	<u>PMX</u>	<u>7/18-4/08</u>	
Relinquished by	<u>Lara Lindle</u>	<u>Lara Lindle</u>	<u>PMX</u>	<u>7/10/08</u>	
Received by					
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg. Pager: 206.344.1878
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**



Client Parametrix
 Street 411 108th Ave NE Ste 1800
Bellevue, WA 98004

NVL Batch Number _____
 Client Job Number 555-5730-001

Project Manager Kurt Easthouse
 Project Location Yakima Resources - High Fuel
Baker Bldg

Total Samples _____
 Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Phone: (425) 458-6200 Fax: (425) 458-6363

Please call for TAT less than 24 Hrs
 Email address mwilloughby@parametrix.com

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other _____
<input type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM Bulk	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Inst./Det Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Selenium (Se)	<input type="checkbox"/> Copper (Cu)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Silver (Ag)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Soil	<input type="checkbox"/> Chromium (Cr)		<input type="checkbox"/> Zinc (Zn)
		<input type="checkbox"/> Paint Chips in %	<input type="checkbox"/> Lead (Pb)		
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Other (Specify) _____		
	<input type="checkbox"/> Silica	<input type="checkbox"/> Respirable Dust			

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		HFHA-TIE2U-01	Baker 2, tank insulation, upper level	
2		HFHA-TIE2U-02	↓	
3		HFHA-TIE2U-03	↓	
4		HFHA-BIE2-01	Yellow boiler insulation, ^{cont} HFHA: water tank, Baker 2	
5		HFHA-BIE2-02	↓	
6		HFHA-BIE2-03	↓	
7				
8				
9				
10				
11				
12				
13				
14				
15				

Print Below	Sign Below	Company	Date	Time
Sampled by <u>Lara Lindor</u>	<u>Lara Lindor</u>	<u>PMX</u>	<u>11/10/08</u>	
Relinquished by <u>Lara Lindor</u>	<u>Lara Lindor</u>	<u>PMX</u>	<u>11/10/08</u>	
Received by				
Analyzed by				
Results Called by				
Results Faxed by				

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg. Pager: 206.344.1878
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**



Client Parametrix
 Street 411 105th Ave NE Ste 1800
Bellevue, WA 98004

NVL Batch Number _____
 Client Job Number 555-5730-001
 Total Samples 13

Project Manager Kurt Easthouse
 Project Location Yakima Resources - High Fuel Boiler Bldg

Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Please call for TAT less than 24 Hrs
 Email address mwilloughby@parametrix.com

Phone: (425) 458-1020 Fax: (425) 458-1036

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other _____
<input type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM Bulk	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Inst./Det Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Selenium (Se)	<input type="checkbox"/> Copper (Cu)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Silver (Ag)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Soil	<input type="checkbox"/> Chromium (Cr)		<input type="checkbox"/> Zinc (Zn)
		<input type="checkbox"/> Paint Chips in %	<input type="checkbox"/> Lead (Pb)		
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Other (Specify) _____		
	<input type="checkbox"/> Silica	<input type="checkbox"/> Respirable Dust			

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		HFHA-PI3-01	High pressure steam line insulation	
2		HFHA-PI3-02		
3		HFHA-PI3-03		
4		HFHA-PI3-04		
5		HFHA-PI3-05		
6		HFHA-PI3-06		
7		HFHA-PI3-07	↓	
8		HFHA-FB3-01	Boiler 3 Fuel Box insulation	
9		HFHA-FB3-02	↓	
10		HFHA-FB3-03	↓	
11		HFHA-BD2-01	Boiler 2 Door Insulation	
12		HFHA-BD2-02	↓	
13		HFHA-BD2-03	↓	
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	<u>Lara Linder</u>	<u>Lara Linder</u>	<u>PMX</u>	<u>7/8/08</u>	<u>4:10/08</u>
Relinquished by	<u>Lara Linder</u>	<u>Lara Linder</u>	<u>PMX</u>	<u>7/10/08</u>	
Received by					
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
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 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**



Client Parametrix
 Street 411 106th Ave NE Ste 1800
Bellevue, WA 98004

NVL Batch Number _____
 Client Job Number 555-5730-001
 Total Samples 15

Project Manager Kurt Easthouse
 Project Location Yakima Resources - Hot Fuel
Boiler Bldg

Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Please call for TAT less than 24 Hrs
 Email address mwilloughby@parametrix.com

Phone: (425) 458-0200 Fax: (425) 458-0363

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other _____
<input type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM Bulk	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Inst./Det Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Selenium (Se)	<input type="checkbox"/> Copper (Cu)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Silver (Ag)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Soil	<input type="checkbox"/> Chromium (Cr)		<input type="checkbox"/> Zinc (Zn)
		<input type="checkbox"/> Paint Chips in %	<input type="checkbox"/> Lead (Pb)		
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Other (Specify) _____		
	<input type="checkbox"/> Silica	<input type="checkbox"/> Respirable Dust			

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		BEI HFHA-BI2-C1	Boiler 2, water tank int. insulation	
2		HFHA-BI2-D2	↓	
3		HFHA-BI2-D3	↓	
4		HFHA-BIE2R-D1	Red Boiler 2 water tank ext. insulation	
5		HFHA-BIE2R-D2	↓	
6		HFHA-BIE2R-D3	↓	
7		HFHA-BI3C-D1	Coarse interior insulation, Boiler 3	
8		HFHA-BI3C-D2	↓	
9		HFHA-BI3C-D3	↓	
10		HFHA-BIE1-D1	Yellow boiler insulation, exterior water tank, Boiler 1	
11		HFHA-BIE1-D2	↓	
12		HFHA-BIE1-D3	↓	
13		HFHA-BI1-D1	Yellow boiler insulation, int. water tank, Boiler 1	
14		HFHA-BI1-D2	↓	
15		HFHA-BI1-D3	↓	

Print Below	Sign Below	Company	Date	Time
Sampled by <u>Lara Lindle</u>	<u>Lara Lindle</u>	<u>PMX</u>	<u>4/8-4/2/08</u>	
Relinquished by <u>Lara Lindle</u>	<u>Lara Lindle</u>	<u>PMX</u>	<u>4/2/08</u>	
Received by				
Analyzed by				
Results Called by				
Results Faxed by				

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg. Pager: 206.344.1878
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**



Client Parametrix
 Street 411 108th Ave NE Ste 1800
Bellevue, WA 98004

NVL Batch Number _____
 Client Job Number 555-5730-001
 Total Samples 14 15

Project Manager Rina Easthouse
 Project Location Yakima Resources - Hwy Fuel
Bellevue Bldg

Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Please call for TAT less than 24 Hrs
 Email address mwilloughby@parametrix.com

Phone: (425) 458-6200 Fax: (425) 458-6363

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other _____
<input type="checkbox"/> Asbestos Bulk	<input type="checkbox"/> LM (EPA/600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (EPA Gravimetry) <input type="checkbox"/> TEM Bulk				
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air <input type="checkbox"/> Mold Bulk <input type="checkbox"/> Rotometer Calibration				
METALS	Inst./Det Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input checked="" type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Paint Chips in cm	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Mercury (Hg)
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Selenium (Se)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Other	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Silver (Ag)
		<input type="checkbox"/> Soil		<input type="checkbox"/> Chromium (Cr)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Paint Chips in %		<input type="checkbox"/> Lead (Pb)	<input type="checkbox"/> Zinc (Zn)
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass <input type="checkbox"/> Nuisance Dust <input type="checkbox"/> Other (Specify) _____				
	<input type="checkbox"/> Silica <input type="checkbox"/> Respirable Dust				

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		HFHL-01	Black/Grey compressor paint	
2		HFHL-02	Grey interior paint	
3		HFHL-03	Yellow paint	
4		HFHL-04	Brown/Grey/Grey paint	
5		HFHL-05	Dark grey roller paint	
6		HFHL-06	White interior paint, canister restroom	
7		HFHL-07	White wall paint - lunch room	
8		HFHL-08	White trim paint - pipe fit office	
9		HFHL-09	White paint	
10		HFHL-10	Grey wall paint	
11		HFHL-11	Grey/Silver compressor paint	
12		HFHL-12	White wall paint - multipurpose rm	
13		HFHL-13	Tan exterior paint	
14		HFHL-14	White exterior paint	
15		HFHL-15	Grey ext. paint	

	Print Below	Sign Below	Company	Date	Time
Sampled by	<u>Lara Lind</u>	<u>Lara Lind</u>	<u>PMX</u>	<u>4/8-11/08</u>	
Relinquished by	<u>Lara Lind</u>	<u>Lara Lind</u>	<u>PMX</u>	<u>4/10/08</u>	
Received by					
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
Remove from substrate where necessary.

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg. Pager: 206.344.1878
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**



Client Parametrix
 Street 411 108th Ave NE Ste 1800
Bellevue, WA 98004

NVL Batch Number _____
 Client Job Number 565-5730-001
 Total Samples 15

Project Manager Kurt Easthouse
 Project Location Yakima Resources - Hog Fuel
Bonker Bldg

Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Please call for TAT less than 24 Hrs
 Email address mwilloughby@parametrix.com

Phone: (425) 458-1020 Fax: (425) 458-6363

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other _____
<input type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM Bulk	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Inst./Det Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Selenium (Se)	<input type="checkbox"/> Copper (Cu)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Silver (Ag)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Soil	<input type="checkbox"/> Chromium (Cr)		<input type="checkbox"/> Zinc (Zn)
		<input type="checkbox"/> Paint Chips in %	<input type="checkbox"/> Lead (Pb)		
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Other (Specify) _____		
	<input type="checkbox"/> Silica	<input type="checkbox"/> Respirable Dust			

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		HFHA-PI4-01	3" pipe insulation	
2		HFHA-PI4-02	↓	
3		HFHA-PI4-03	↓	
4		HFHA-PI4F-01	3" pipe fitting/elbow	
5		HFHA-PI4F-02	↓	
6		HFHA-PI4F-03	↓	
7		HFHA-PI2-01	3" pipe insulation, water tanks	
8		HFHA-PI2-02	↓	
9		HFHA-PI2-03	↓	
10		HFHA-PI2F-01	3" pipe fitting/elbow, water tanks	
11		HFHA-PI2F-02	↓	
12		HFHA-PI2F-03	↓	
13		HFHA-PI3F-01	High pressure steam line fitting/elbow	
14		HFHA-PI3F-02	↓	
15		HFHA-PI3F-03	↓	

	Print Below	Sign Below	Company	Date	Time
Sampled by	Lara Lindle	Lara Lindle	PMX	7/8-11/2008	
Relinquished by	Lara Lindle	Lara Lindle	PMX	7/10/08	
Received by					
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
 Address: 411 108th Ave. NE Ste 1800
 Bellevue, WA 98004

Batch #: 2804626.00
 Client Project #: 555-5730-001
 Date Received: 04/11/2008
 Samples Received: 21
 Samples Analyzed: 21
 Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse
 Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Lab ID: 28027391 Client Sample #: HFHA-TII3U-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Tan compressed fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Glass beads, Perlite	Cellulose 8%	None Detected ND
	Mineral wool 45%	
	Wollastonite 10%	

Lab ID: 28027392 Client Sample #: HFHA-TII3U-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Tan compressed fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Glass beads, Perlite	Cellulose 10%	None Detected ND
	Mineral wool 42%	
	Wollastonite 6%	

Lab ID: 28027393 Client Sample #: HFHA-TII3U-03

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Tan compressed fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Glass beads, Perlite	Cellulose 7%	None Detected ND
	Mineral wool 44%	
	Wollastonite 8%	

Lab ID: 28027394 Client Sample #: HFHA-ETI-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2 Description: Tan compressed fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Glass beads	Cellulose 4%	None Detected ND

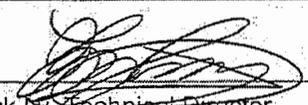
Sampled by: Client

Analyzed by: Lyudmila Veh

Reviewed by: Nick Ly

Date: 04/15/2008

Date: 04/15/2008


 Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
 Address: 411 108th Ave. NE Ste 1800
 Bellevue, WA 98004

Batch #: 2804626.00
 Client Project #: 555-5730-001
 Date Received: 04/11/2008
 Samples Received: 21
 Samples Analyzed: 21
 Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Mineral wool 55%

Layer 2 of 2 Description: Light gray compressed fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Glass beads, Perlite	Cellulose 3%	None Detected ND
	Mineral wool 46%	
	Wollastonite 7%	

Lab ID: 28027395 Client Sample #: HFHA-ETI-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2 Description: Off-white compressed fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Glass beads	Cellulose 1%	None Detected ND
	Mineral wool 30%	

Layer 2 of 2 Description: Light gray compressed fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Glass beads, Perlite	Cellulose 4%	None Detected ND
	Mineral wool 44%	
	Wollastonite 9%	

Lab ID: 28027396 Client Sample #: HFHA-ETI-03

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2 Description: Off-white and tan compressed fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Glass beads, Diatoms	Mineral wool 40%	None Detected ND
	Wollastonite 3%	

Layer 2 of 2 Description: Light gray compressed fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Glass beads, Perlite	Mineral wool 50%	None Detected ND

Sampled by: Client

Analyzed by: Lyudmila Veh

Reviewed by: Nick Ly

Date: 04/15/2008

Date: 04/15/2008


 Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
 Address: 411 108th Ave. NE Ste 1800
 Bellevue, WA 98004

Batch #: 2804626.00
 Client Project #: 555-5730-001
 Date Received: 04/11/2008
 Samples Received: 21
 Samples Analyzed: 21
 Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Wollastonite 6%

Lab ID: 28027397 Client Sample #: HFHA-FB4-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Tan brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Mineral grains	None Detected ND	None Detected ND

Lab ID: 28027398 Client Sample #: HFHA-FB4-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Tan brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Mineral grains	None Detected ND	None Detected ND

Lab ID: 28027399 Client Sample #: HFHA-FB4-03

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Tan brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Mineral grains	None Detected ND	None Detected ND

Lab ID: 28027400 Client Sample #: HFHA-BII1C-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Tan brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Mineral grains	Wollastonite 2%	None Detected ND

Lab ID: 28027401 Client Sample #: HFHA-BII1C-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Tan brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Mineral grains	Wollastonite 2%	None Detected ND

Sampled by: Client

Analyzed by: Lyudmila Veh

Reviewed by: Nick Ly

Date: 04/15/2008

Date: 04/15/2008

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
 Address: 411 108th Ave. NE Ste 1800
 Bellevue, WA 98004

Batch #: 2804626.00
 Client Project #: 555-5730-001
 Date Received: 04/11/2008
 Samples Received: 21
 Samples Analyzed: 21
 Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Lab ID: 28027402 Client Sample #: HFHA-BII1C-03

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Tan brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Mineral grains	Wollastonite 2%	None Detected ND

Lab ID: 28027403 Client Sample #: HFHA-BII3U-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Gray brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Mineral grains	None Detected ND	None Detected ND

Lab ID: 28027404 Client Sample #: HFHA-BII3U-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Gray brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Mineral grains	None Detected ND	None Detected ND

Lab ID: 28027405 Client Sample #: HFHA-BII3U-03

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Gray brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Mineral grains	None Detected ND	None Detected ND

Lab ID: 28027406 Client Sample #: HFHA-TII2U-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Tan compressed fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Glass beads, Perlite	Cellulose 3%	None Detected ND
	Mineral wool 43%	

Sampled by: Client

Analyzed by: Lyudmila Veh

Reviewed by: Nick Ly

Date: 04/15/2008

Date: 04/15/2008


 Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix

Address: 411 108th Ave. NE Ste 1800
 Bellevue, WA 98004

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Batch #: 2804626.00

Client Project #: 555-5730-001

Date Received: 04/11/2008

Samples Received: 21

Samples Analyzed: 21

Method: EPA/600R-93/116

Wollastonite 6%

Lab ID: 28027407 Client Sample #: HFHA-TII2U-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Tan compressed fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Glass beads, Perlite	Cellulose 2%	None Detected ND
	Mineral wool 46%	
	Wollastonite 7%	

Lab ID: 28027408 Client Sample #: HFHA-TII2U-03

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Tan compressed fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Glass beads, Perlite	Cellulose 2%	None Detected ND
	Mineral wool 45%	
	Wollastonite 8%	

Lab ID: 28027409 Client Sample #: HFHA-BIE2-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Tan brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Mineral grains	None Detected ND	None Detected ND

Lab ID: 28027410 Client Sample #: HFHA-BIE2-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Tan brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Mineral grains	None Detected ND	None Detected ND

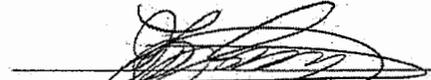
Sampled by: Client

Analyzed by: Lyudmila Veh

Reviewed by: Nick Ly

Date: 04/15/2008

Date: 04/15/2008


 Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix

Address: 411 108th Ave. NE Ste 1800
Bellevue, WA 98004

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Batch #: 2804626.00

Client Project #: 555-5730-001

Date Received: 04/11/2008

Samples Received: 21

Samples Analyzed: 21

Method: EPA/600R-93/116

Lab ID: 28027411

Client Sample #: HFHA-BIE2-03

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Tan brittle material

Non-Fibrous Materials:
Binder/Filler, Mineral grains

Other Fibrous Materials:%
None Detected ND

Asbestos Type: %
None Detected ND

Sampled by: Client

Analyzed by: Lyudmila Veh

Reviewed by: Nick Ly

Date: 04/15/2008

Date: 04/15/2008

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

NVL Laboratories, Inc.
 4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg. Pager: 206.344.1878
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**

BATCH ID
2804626.00

LABS
 HAZARDOUS MATERIAL SERVICES

Client Parametrix
 Street 411 105th Ave NE Ste 1800
Bellevue, WA 98004
 Project Manager Kurt Easthouse
 Project Location Yakima Resources - Hot Fuel
Boiler Bldg

NVL Batch Number _____
 Client Job Number 555-5730-001
 Total Samples 15
 Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Phone: (425) 458-10200 Fax: (425) 458-10303

Please call for TAT less than 24 Hrs
 Email address mwilloughby@parametrix.com

Asbestos Air PCM (NIOSH 7400) TEM (NIOSH 7402) TEM (AHERA) TEM (EPA Level II) Other _____

Asbestos Bulk PLM (EPA/600/R-93/116) PLM (EPA Point Count) PLM (EPA Gravimetry) TEM Bulk

Mold/Fungus Mold Air Mold Bulk Rotometer Calibration

METALS	Inst./Det Limit	Matrix	RCRA Metals	All 8	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Selenium (Se)	<input type="checkbox"/> Copper (Cu)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Silver (Ag)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Soil	<input type="checkbox"/> Chromium (Cr)		<input type="checkbox"/> Zinc (Zn)
		<input type="checkbox"/> Paint Chips in %	<input type="checkbox"/> Lead (Pb)		

Other Types of Analysis Fiberglass Nuisance Dust Other (Specify) _____
 Silica Respirable Dust

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	AR
1		HFHA-TI3U-01	Boiler 3, tank insulation, upper level	
2		HFHA-TI3U-02	↓	
3		HFHA-TI3U-03	↓	
4		HFHA-ETI-01	Exterior tank insulation Boiler 4	
5		HFHA-ETI-02	↓	
6		HFHA-ETI-03	↓	
7		HFHA-FB4-01	Fuel Box 4 int. insulation, Boiler 4	
8		HFHA-FB4-02	↓	
9		HFHA-FB4-03	↓	
10		HFHA-BI1C-01	Coarse interior insulation, Boiler 1	
11		HFHA-BI1C-02	↓	
12		HFHA-BI1C-03	↓	
13		HFHA-BI3U-01	Boiler 3, upper compartment, int. insulation	
14		HFHA-BI3U-02	↓	
15		HFHA-BI3U-03	↓	

	Print Below	Sign Below	Company	Date	Time
Sampled by	<u>Lark Lunde</u>	<u>Lark Lunde</u>	<u>PMX</u>	<u>4/8-4/10/08</u>	
Relinquished by	<u>Lark Lunde</u>	<u>Lark Lunde</u>	<u>PMX</u>	<u>4/10/08</u>	
Received by	<u>Mindy Nguyen</u>	<u>Mindy Nguyen</u>	<u>NVL</u>	<u>4/11/08</u>	<u>10:30 WPS</u>
Analyzed by	<u>L. Veb</u>	<u>C. Stralaver</u>	<u>NVL</u>	<u>04.15.08</u>	<u>11:27</u>
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

NVL Laboratories, Inc.
 4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg. Pager: 206.344.1878
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**

BATCH ID
2804626.00

HAZARDOUS MATERIAL SERVICES

Client Parametrix
 Street 411 108th Ave NE Ste 1800
Bellevue, WA 98004

NVL Batch Number _____

Client Job Number 565-5730-001

Total Samples _____

Project Manager Kurt Easthouse

Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Project Location Yakima Resources - High Fuel
Boiler Bldg

Please call for TAT less than 24 Hrs
 Email address mwilloughby@parametrix.com

Phone: (425) 458-6200 Fax: (425) 458-6363

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other _____
<input type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM Bulk	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Inst./Det Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Selenium (Se)	<input type="checkbox"/> Copper (Cu)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Silver (Ag)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Soil	<input type="checkbox"/> Chromium (Cr)		<input type="checkbox"/> Zinc (Zn)
		<input type="checkbox"/> Paint Chips in %	<input type="checkbox"/> Lead (Pb)		
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Other (Specify) _____		
	<input type="checkbox"/> Silica	<input type="checkbox"/> Respirable Dust			

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		HFHA-TIE2U-01	Boiler 2, Tank insulation, upper level	
2		HFHA-TIE2U-02	↓	
3		HFHA-TIE2U-03	↓	
4		HFHA-BIE2-01	Yellow boiler insulation, #1 water tank, Boiler 2	
5		HFHA-BIE2-02	↓	
6		HFHA-BIE2-03	↓	
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	Lara Lind	Lara Lind	PMX	4/10/08	
Relinquished by	Lara Lind	Lara Lind	PMX	4/10/08	
Received by	Mindy Nguyen		NVL	4/11/08	10:30 AM
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
 Address: 411 108th Ave. NE Ste 1800
 Bellevue, WA 98004

Batch #: 2804628.00
 Client Project #: 555-5730-001
 Date Received: 04/11/2008
 Samples Received: 29
 Samples Analyzed: 29
 Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Lab ID: 28027427 Client Sample #: HFHA-PI4-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2	Description: Gray thin rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %	
	Rubber/binder	Polyethylene fibers 2%	None Detected	ND
Layer 2 of 2	Description: Off-white compressed powdery material			
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %	
	Binder/Filler	Synthetic fibers 7%	None Detected	ND

Lab ID: 28027428 Client Sample #: HFHA-PI4-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2	Description: Gray thin rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %	
	Rubber/binder	Polyethylene fibers 2%	None Detected	ND
Layer 2 of 2	Description: Off-white compressed powdery material			
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %	
	Binder/Filler	Synthetic fibers 6%	None Detected	ND

Lab ID: 28027429 Client Sample #: HFHA-PI4-03

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1	Description: Off-white compressed powdery material			
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %	
	Binder/Filler	Synthetic fibers 8%	None Detected	ND

Lab ID: 28027430 Client Sample #: HFHA-PI4F-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2	Description: Black thin crumbly material			
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %	
	Binder/Filler	Mineral wool 15%	None Detected	ND

Sampled by: Client

Analyzed by: Lyudmila Veh

Reviewed by: Nick Ly

Date: 04/16/2008

Date: 04/16/2008

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
Address: 411 108th Ave. NE Ste 1800
Bellevue, WA 98004

Batch #: 2804628.00
Client Project #: 555-5730-001
Date Received: 04/11/2008
Samples Received: 29
Samples Analyzed: 29
Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 2 of 2	Description: Off-white compressed powdery material			
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %	
	Binder/Filler	Cellulose 3%	None Detected	ND
		Mineral wool 17%		
		Wollastonite 2%		

Lab ID: 28027431 Client Sample #: HFHA-PI4F-02
Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2	Description: Black thin crumbly material			
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %	
	Binder/Filler	Mineral wool 13%	None Detected	ND
Layer 2 of 2	Description: Off-white compressed powdery material			
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %	
	Binder/Filler	Cellulose 2%	None Detected	ND
		Mineral wool 15%		
		Wollastonite 3%		

Lab ID: 28027432 Client Sample #: HFHA-PI4F-03
Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2	Description: Black thin crumbly material			
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %	
	Binder/Filler	Mineral wool 13%	None Detected	ND
Layer 2 of 2	Description: Off-white compressed powdery material			
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %	
	Binder/Filler	Cellulose 2%	None Detected	ND
		Mineral wool 16%		
		Wollastonite 2%		

Sampled by: Client

Analyzed by: Lyudmila Veh

Reviewed by: Nick Ly

Date: 04/16/2008

Date: 04/16/2008

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
 Address: 411 108th Ave. NE Ste 1800
 Bellevue, WA 98004

Batch #: 2804628.00
 Client Project #: 555-5730-001
 Date Received: 04/11/2008
 Samples Received: 29
 Samples Analyzed: 29
 Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse
 Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Lab ID: 28027433 Client Sample #: HFHA-PI2-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2	Description: White fibrous woven material with paint	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Fine particles, Paint	Cellulose 15%	Chrysotile 60%
Layer 2 of 2	Description: Beige compressed powdery material	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Binder/Filler	None Detected ND	Amosite 13%

Lab ID: 28027434 Client Sample #: HFHA-PI2-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

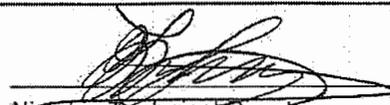
Layer 1 of 3	Description: White fibrous woven material with paint	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Fine particles, Paint	Cellulose 20%	Chrysotile 30%
			Mineral wool 20%	
Layer 2 of 3	Description: Off-white fibrous woven material	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Fine particles	Cellulose 96%	None Detected ND
Layer 3 of 3	Description: Beige compressed powdery material	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Binder/Filler	None Detected ND	Amosite 12%

Lab ID: 28027435 Client Sample #: HFHA-PI2-03

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2	Description: White fibrous woven material	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Fine particles	Cellulose 95%	None Detected ND

Sampled by: Client
Analyzed by: Lyudmila Veh Date: 04/16/2008
Reviewed by: Nick Ly Date: 04/16/2008


 Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
 Address: 411 108th Ave. NE Ste 1800
 Bellevue, WA 98004

Batch #: 2804628.00
 Client Project #: 555-5730-001
 Date Received: 04/11/2008
 Samples Received: 29
 Samples Analyzed: 29
 Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 2 of 2 Description: Beige compressed powdery material
 Non-Fibrous Materials: Other Fibrous Materials:% Asbestos Type: %
 Binder/Filler None Detected ND Amosite 14%

Lab ID: 28027436 Client Sample #: HFHA-PI2F-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2 Description: White fibrous woven material with paint
 Non-Fibrous Materials: Other Fibrous Materials:% Asbestos Type: %
 Fine particles Mineral wool 75% None Detected ND

Layer 2 of 2 Description: Beige brittle material
 Non-Fibrous Materials: Other Fibrous Materials:% Asbestos Type: %
 Binder/Filler, Glass beads Mineral wool 14% None Detected ND

Lab ID: 28027437 Client Sample #: HFHA-PI2F-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2 Description: White fibrous woven material with paint
 Non-Fibrous Materials: Other Fibrous Materials:% Asbestos Type: %
 Fine particles, Paint Cellulose 19% Chrysotile 42%
 Mineral wool 21%

Layer 2 of 2 Description: Beige compressed powdery fibrous material
 Non-Fibrous Materials: Other Fibrous Materials:% Asbestos Type: %
 Binder/Filler, Glass beads Cellulose 2% Chrysotile 33%
 Amosite 5%

Lab ID: 28027438 Client Sample #: HFHA-PI2F-03

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2 Description: Black asphaltic fibrous woven material with paint
 Non-Fibrous Materials: Other Fibrous Materials:% Asbestos Type: %
 Asphalt/binder, Paint Mineral wool 40% None Detected ND
 Wollastonite 20%

Sampled by: Client

Analyzed by: Lyudmila Veh

Reviewed by: Nick Ly

Date: 04/16/2008

Date: 04/16/2008

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
 Address: 411 108th Ave. NE Ste 1800
 Bellevue, WA 98004

Batch #: 2804628.00
 Client Project #: 555-5730-001
 Date Received: 04/11/2008
 Samples Received: 29
 Samples Analyzed: 29
 Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 2 of 2 Description: Beige compressed powdery fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Glass beads	Cellulose 3%	Chrysotile 30%
		Amosite 5%

Lab ID: 28027439 Client Sample #: **HFHA-PI3F-01**
 Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2 Description: Tan compressed fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	None Detected ND	Chrysotile 66%

Layer 2 of 2 Description: White compressed powdery material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	None Detected ND	Chrysotile 1%
		Amosite 16%

Lab ID: 28027440 Client Sample #: **HFHA-PI3F-02**
 Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2 Description: Black asphaltic fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Asphalt/binder	Mineral wool 32%	None Detected ND
	Wollastonite 5%	

Layer 2 of 2 Description: White compressed powdery material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	None Detected ND	Chrysotile 1%
		Amosite 14%

Lab ID: 28027441 Client Sample #: **HFHA-PI3F-03**
 Location: Yakima Resources- Hog Fuel Boiler Bldg.

Sampled by: Client		
Analyzed by: Lyudmila Veh	Date: 04/16/2008	
Reviewed by: Nick Ly	Date: 04/16/2008	Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
 Address: 411 108th Ave. NE Ste 1800
 Bellevue, WA 98004

Batch #: 2804628.00
 Client Project #: 555-5730-001
 Date Received: 04/11/2008
 Samples Received: 29
 Samples Analyzed: 29
 Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2 Description: Black asphaltic fibrous material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Asphalt/binder	Mineral wool 34%	None Detected ND
	Wollastonite 6%	

Layer 2 of 2 Description: White compressed powdery material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	None Detected ND	Chrysotile 1%
		Amosite 16%

Lab ID: 28027442 Client Sample #: HFHA-PI3-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Off-white compressed powdery material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	None Detected ND	Chrysotile 2%
		Amosite 8%

Lab ID: 28027443 Client Sample #: HFHA-PI3-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Off-white compressed powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Paint	None Detected ND	Amosite 20%

Lab ID: 28027444 Client Sample #: HFHA-PI3-03

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Off-white compressed powdery material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	None Detected ND	Amosite 21%

Lab ID: 28027445 Client Sample #: HFHA-PI3-04

Location: Yakima Resources- Hog Fuel Boiler Bldg.

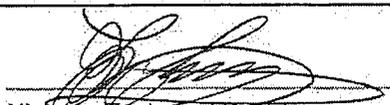
Sampled by: Client

Analyzed by: Lyudmila Veh

Reviewed by: Nick Ly

Date: 04/16/2008

Date: 04/16/2008


 Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
 Address: 411 108th Ave. NE Ste 1800
 Bellevue, WA 98004

Batch #: 2804628.00
 Client Project #: 555-5730-001
 Date Received: 04/11/2008
 Samples Received: 29
 Samples Analyzed: 29
 Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse
 Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Tan compressed powdery material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	Cellulose 2%	Amosite 2%

Lab ID: 28027446 Client Sample #: HFHA-PI3-05

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Off-white compressed powdery material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Fine particles, Binder/Filler	Synthetic fibers 13%	None Detected ND

Lab ID: 28027447 Client Sample #: HFHA-PI3-06

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Off-white compressed powdery material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Fine particles, Binder/Filler	Synthetic fibers 12%	None Detected ND

Lab ID: 28027448 Client Sample #: HFHA-PI3-07

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 2 Description: Off-white compressed powdery material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Fine particles, Binder/Filler	Synthetic fibers 1%	Amosite 2%
	Cellulose 1%	

Layer 2 of 2 Description: Gray brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Mineral grains	None Detected ND	None Detected ND

Lab ID: 28027449 Client Sample #: HFHA-FB3-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Off-white brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Mineral grains	Wollastonite 2%	None Detected ND

Sampled by: Client

Analyzed by: Lyudmila Veh

Reviewed by: Nick Ly

Date: 04/16/2008

Date: 04/16/2008

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
 Address: 411 108th Ave. NE Ste 1800
 Bellevue, WA 98004

Batch #: 2804628.00
 Client Project #: 555-5730-001
 Date Received: 04/11/2008
 Samples Received: 29
 Samples Analyzed: 29
 Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Lab ID: 28027450 Client Sample #: HFHA-FB3-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Off-white brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Mineral grains	Wollastonite 2%	None Detected ND

Lab ID: 28027451 Client Sample #: HFHA-FB3-03

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Gray brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Mineral grains	Wollastonite 1%	None Detected ND

Lab ID: 28027452 Client Sample #: HFHA-FB3-04

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Off-white brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Mineral grains	Wollastonite 2%	None Detected ND

Lab ID: 28027453 Client Sample #: HFHA-BD2-01

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Tan brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Mineral grains	Wollastonite <1%	None Detected ND

Lab ID: 28027454 Client Sample #: HFHA-BD2-02

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Gray brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Mineral grains	Wollastonite <1%	None Detected ND

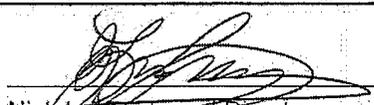
Sampled by: Client

Analyzed by: Lyudmila Veh

Reviewed by: Nick Ly

Date: 04/16/2008

Date: 04/16/2008


 Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix

Address: 411 108th Ave. NE Ste 1800
Bellevue, WA 98004

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Batch #: 2804628.00

Client Project #: 555-5730-001

Date Received: 04/11/2008

Samples Received: 29

Samples Analyzed: 29

Method: EPA/600R-93/116

Lab ID: 28027526 Client Sample #: HFHA-BD2-03

Location: Yakima Resources- Hog Fuel Boiler Bldg.

Layer 1 of 1 Description: Brown brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler, Mineral grains, Perlite	None Detected ND	None Detected ND

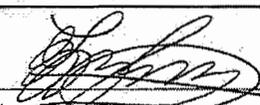
Sampled by: Client

Analyzed by: Lyudmila Veh

Reviewed by: Nick Ly

Date: 04/16/2008

Date: 04/16/2008


Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg. Pager: 206.344.1878
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**

BATCH ID
2804628.00

Client Parametrix
 Street 411 108th Ave NE Ste 1800
Bellevue, WA 98004

NVL Batch Number _____
 Client Job Number 555-5730-001
 Total Samples 15

Project Manager Kurt Easthouse
 Project Location Yakima Resources - High Fuel
Boelter Bldg

Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Phone: (425) 458-6200 Fax: (425) 458-6363

Please call for TAT less than 24 Hrs
 Email address mwilloughby@parametrix.com

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other
<input type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM Bulk	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Inst./Det Limit	Matrix	RCRA Metals	<input type="checkbox"/> All R	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Selenium (Se)	<input type="checkbox"/> Copper (Cu)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Silver (Ag)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Soil	<input type="checkbox"/> Chromium (Cr)		<input type="checkbox"/> Zinc (Zn)
		<input type="checkbox"/> Paint Chips in %	<input type="checkbox"/> Lead (Pb)		
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Other (Specify) _____		
	<input type="checkbox"/> Silica	<input type="checkbox"/> Respirable Dust			

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		HFHA-PI4-01	3" pipe insulation	
2		HFHA-PI4-02	↓	
3		HFHA-PI4-03	↓	
4		HFHA-PI4F-01	3" pipe fitting/elbow	
5		HFHA-PI4F-02	↓	
6		HFHA-PI4F-03	↓	
7		HFHA-PI2-01	3" pipe insulation, water tanks	
8		HFHA-PI2-02	↓	
9		HFHA-PI2-03	↓	
10		HFHA-PI2F-01	3" pipe fitting/elbow, water tanks	
11		HFHA-PI2F-02	↓	
12		HFHA-PI2F-03	↓	
13		HFHA-PI3F-01	High pressure steam line fitting/elbow	
14		HFHA-PI3F-02	↓	
15		HFHA-PI3F-03	↓	

	Print Below	Sign Below	Company	Date	Time
Sampled by	Lara Lind	Lara Lind	PMX	4/8-4/9/08	
Relinquished by	Lara Lind	Lara Lind	PMX	4/10/08	
Received by	Mindy Nguyen	Mindy Nguyen	NVL	4/11/08	10:30 UPS
Analyzed by	L. Voh	[Signature]	NVL	04.16.08	06:24
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg. Pager: 206.344.1878
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**

BATCH ID
2804628.00

Client Parametrix
 Street 411 105th Ave NE STE 1800
Bellevue, WA 98004

NVL Batch Number _____
 Client Job Number 555-5730-001
 Total Samples 13

Project Manager Kurt Easthouse
 Project Location Yakima Resources - High Fuel
Boiler Bldg

Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Please call for TAT less than 24 Hrs
 Email address mwilloughby@parametrix.com

Phone: (425) 458-1020 Fax: (425) 458-1030

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other _____
<input type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM Bulk	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Inst./Det Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Selenium (Se)	<input type="checkbox"/> Copper (Cu)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Silver (Ag)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Soil	<input type="checkbox"/> Chromium (Cr)		<input type="checkbox"/> Zinc (Zn)
		<input type="checkbox"/> Paint Chips in %	<input type="checkbox"/> Lead (Pb)		
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Other (Specify) _____		
	<input type="checkbox"/> Silica	<input type="checkbox"/> Respirable Dust			

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		HFHA-PI3-01	High pressure steam line insulation	
2		HFHA-PI3-02		
3		HFHA-PI3-03		
4		HFHA-PI3-04		
5		HFHA-PI3-05		
6		HFHA-PI3-06		
7		HFHA-PI3-07		
8		HFHA-FB3-01	Boiler 3 Fuel Box insulation	
9		HFHA-FB3-02		
10		HFHA-FB3-03		
11		HFHA-BD2-01	Boiler 2 Door Insulation	
12		HFHA-BD2-02		
13		HFHA-BD2-03		
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	<u>Lara Lindle</u>	<u>Lara Lindle</u>	<u>PMX</u>	<u>4/8/08</u>	<u>4:10/08</u>
Relinquished by	<u>Lara Lindle</u>	<u>Lara Lindle</u>	<u>PMX</u>	<u>4/10/08</u>	
Received by	<u>Mindy Nguyen</u>	<u>Mindy Nguyen</u>	<u>NVL</u>	<u>4/11/08</u>	<u>10:30 UPS</u>
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

NVL Laboratories, Inc.

4708 Aurora Ave. N., Seattle, WA 98103
Tel: 206.547.0100, Fax: 206.634.1936
www.nvllabs.com



Analysis Report

AIHA - IH # 101861
WA - DOE # C1765

Total Lead (Pb)

Client: Parametrix
Address: 411 108th Ave. NE Ste 1800
Bellevue, WA 98004

Batch #: 2804627.00

Matrix: Paint Chips

Method: EPA 7000B

Client Project #: 555-5730-001

Date Received: 04/11/2008

Samples Received: 15

Samples Analyzed: 15

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- Hog Fuel Boiler Bldg.

Lab ID	Client Sample #	Sample Weight	RL in mg/Kg	Results in mg/Kg	Results in percent
28027412	HFHL-01	0.0983	92.0	4000.0	0.4000
28027413	HFHL-02	0.1217	74.0	360.0	0.0360
28027414	HFHL-03	0.0910	99.0	290.0	0.0290
28027415	HFHL-04	0.0967	93.0	1100.0	0.1100
28027416	HFHL-05	0.1231	73.0	< 73.0	< 0.0073
28027417	HFHL-06	0.0967	93.0	< 93.0	< 0.0093
28027418	HFHL-07	0.0918	98.0	93000.0	9.3000
28027419	HFHL-08	0.0568	160.0	< 160.0	< 0.0160
28027420	HFHL-09	0.0534	170.0	< 170.0	< 0.0170
28027421	HFHL-10	0.0988	91.0	570.0	0.0570
28027422	HFHL-11	0.0939	96.0	96.0	0.0096
28027423	HFHL-12	0.1013	89.0	830.0	0.0830
28027424	HFHL-13	0.0959	94.0	< 94.0	< 0.0094
28027425	HFHL-14	0.0960	94.0	< 94.0	< 0.0094
28027426	HFHL-15	0.1001	90.0	< 90.0	< 0.0090

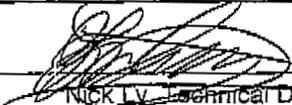
Sampled by: Client

Analyzed by: Tarveer Khan

Reviewed by: Nick Ly

Date Analyzed: 04/17/2008

Date Issued: 04/17/2008


Nick Ly, Technical Director

mg/ Kg = Milligrams per kilogram

Percent = Milligrams per kilogram / 10000

Note: Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

RL = Reporting Limit

'<' = Below the reporting Limit

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg. Pager: 206.344.1878
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**

BATCH ID
2804627.00

Client Parametrix
 Street 411 105th Ave NE Ste 1800
Bellevue, WA 98004

NVL Batch Number _____
 Client Job Number 555-5730-001
 Total Samples 14 15

Project Manager Ruff Eastman
 Project Location Yakima Resources - Hwy Fuel
Baker Bldg

Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Please call for TAT less than 24 Hrs

Email address mwilloughby@parametrix.com

Phone: (425)458-6200 Fax: (425)458-6203

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other _____
<input type="checkbox"/> Asbestos Bulk	<input type="checkbox"/> LM (EPA/600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (EPA Gravimetry) <input type="checkbox"/> TEM Bulk				
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Inst./Det Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input checked="" type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Paint Chips in cm	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Copper (Cu)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Other	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Soil		<input type="checkbox"/> Chromium (Cr)	<input type="checkbox"/> Zinc (Zn)
		<input type="checkbox"/> Paint Chips in %		<input type="checkbox"/> Lead (Pb)	
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Other (Specify) _____		
	<input type="checkbox"/> Silica	<input type="checkbox"/> Respirable Dust			

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		HEHL-01	Black/Gram Compressor paint	
2		HEHL-02	Green interior paint	
3		HEHL-03	Yellow paint	
4		HEHL-04	Bm/Gram/Gra Paint	
5		HEHL-05	DK green boiler paint	
6		HEHL-06	White interior paint	
7		HEHL-07	White wall paint - lunch room	
8		HEHL-08	White trim paint - pipe fit office	
9		HEHL-09	White paint	
10		HEHL-10	Green wall paint	
11		HEHL-11	Green/Silver compressor paint	
12		HEHL-12	White wall paint - multipurpose rm	
13		HEHL-13	Tan exterior paint	
14		HEHL-14	White exterior paint	
15		HEHL-15	Grn ext. paint	

	Print Below	Sign Below	Company	Date	Time
Sampled by	<u>Lara Lind</u>	<u>Tanveer Khan</u>	<u>PMX</u>	<u>4/17/08</u>	
Relinquished by	<u>Lara Lind</u>	<u>Tanveer Khan</u>	<u>PMX</u>	<u>4/17/08</u>	
Received by	<u>Mindy Nauth</u>	<u>Tanveer Khan</u>	<u>NVL</u>	<u>4/17/08</u>	<u>10:30 HRS</u>
Analyzed by	<u>TANVEER KHAN</u>	<u>Tanveer Khan</u>	<u>NVL</u>	<u>4-17-08</u>	<u>11:20 AM</u>
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

Remove from substrate where necessary.

APPENDIX C

Natural Gas Boiler House Building

1. PHYSICAL DESCRIPTION

The Natural Gas Boiler House is a single story structure located to the west of the Hog Fuel Boiler Building. The date of construction is unknown, although it is assumed to be sometime during or after 1997, as the four boilers indicate a 1997 construction date on the manufacturer's information plate. Total size of the building is approximately 1,455 square feet. The building appears to be in good repair.

The building is constructed of a metal beam frame on a concrete slab foundation. The building roof and siding are composed of corrugated metal with a fiberglass insulation underlay that is visible from the inside of the building. The bottom 8 feet of the interior of the building is lined with wood to protect the fragile plastic fiberglass liner.

Attachment C-1 contains field notes and sample location drawings taken during the investigation. Analytical results and associated chain of custody forms for samples submitted for laboratory analysis are presented in Attachment C-2.

2. PREVIOUS INVESTIGATIONS

Limited evidence of past sampling activities in the building was observed, but indicated a full asbestos survey had not previously been conducted in this building. From previous sampling evidence observed during the recent survey, the stand alone laboratory report from NVL Laboratories dated October 2002 could be the result of this past sampling.

3. SUSPECT ASBESTOS CONTAINING MATERIALS IDENTIFICATION

A total of ten samples (including one duplicate) of suspect asbestos containing material were collected during the investigation conducted on April 9, 2008. Field notes and sample location drawings are presented in Attachment C-1. Table C-1 shows the analytical results. Laboratory analytical reports are contained in Attachment C-2.

Table C-1. Suspect Asbestos Containing Materials

Homogenous Area	Sample Number(s)	Description	Percent	Type
PI1	NGHA-PI1-01 thru 03	Boiler Feed Insulation	ND	-
PI2	NGHA-PI2-01 thru 04	High Pressure Steam Line Insulation	ND	-
BG1	NGHA-BG1-01	Boiler Gasket	ND	-
CB1	NGHA-CB1-01	White Mastic Associated with Brown Cove Base	ND	-
BP1	NGHA-BP1-01	Blue Boiler Paint	ND	-

ND = None Detected

4. ASBESTOS CONTAINING MATERIAL SUMMARY

No asbestos containing materials were located in the Natural Gas Boiler House.

5. PAINTED BUILDING COMPONENTS

A total of fifteen paint chip samples were collected (including one duplicate) from various locations throughout the building. Table C-2 lists analytical results for paint chips collected. Analytical reports are provided in Attachment C-2. Sample locations are shown in Attachment C-1.

Table C-2. Total Metals Content

Sample Number	Color	Substrate	Location	Result (mg/kg)
NGHL-01	Blue	Metal	1997 Boilers ¹	<87
NGHL-02	White	Wood	Walls	<150

mg/kg = milligrams per kilogram

¹Blind field duplicate collected from this location

6. OTHER HAZARDOUS MATERIALS

Parametrix performed a brief assessment of polychlorinated biphenyl (PCB) containing fluorescent light ballasts but could not reach the fluorescent light fixture. The building contains a single ballast, which is presumed to contain PCBs unless otherwise noted on the ballast itself. The ballast should be checked prior to building demolition.

Although Parametrix was only tasked with identifying asbestos, lead paint, and PCB containing ballasts, other potentially hazardous materials were noted as listed below.

6.1 FLUORESCENT LIGHT TUBES

The building is illuminated using a combination of fluorescent lights, natural lighting, and high intensity discharge (HID) lighting on the exterior. Fluorescent light tubes may contain small amounts of mercury. A single fluorescent light fixture, containing 2 tubes, was identified in the building. Tubes should be removed from the building prior to demolition.

6.2 CHEMICAL STORAGE

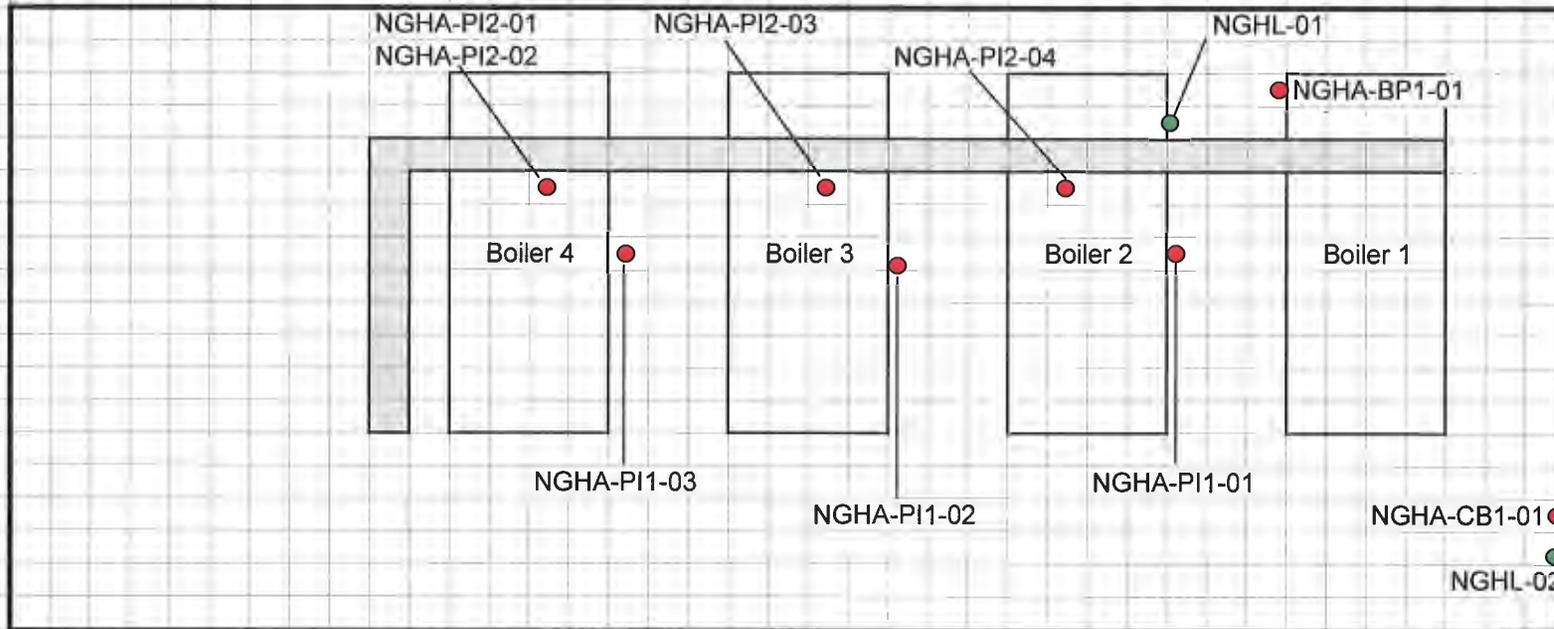
One plastic 55 gallon drum was noted stored in the entrance of the building. It is unclear what the drum contained.

7. INACCESSIBLE AREAS

The inspectors made every attempt to access all areas of the building, but cannot make a statement about other suspect materials that may exist within the building that were concealed at the time of the inspection. Should the demolition contractor encounter suspect ACM during building demolition samples should be collected and analyzed for asbestos content.

ATTACHMENT C-1
Sample Location Drawings
with Field Notes

Natural Gas Boiler House



Project Name Yakima Resources
Project Number 555-5753-001
Location Natural Gas Boiler House
 Drawing Not to Scale

Legend
 ● Suspect ACM Sample Location
 ● Total Lead Sample Location
 NGHA-BG-01 Suspect ACM Sample Number
 NGHL-01 Total Lead Sample Number

Stairs and
 Catwalk



ATTACHMENT C-2
Analytical Results and
Chain of Custody Forms

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
 Address: 411 108th Ave. NE Ste 1800
 Bellevue, WA 98004

Batch #: 2804623.00
 Client Project #: 555-5730-001
 Date Received: 04/11/2008
 Samples Received: 10
 Samples Analyzed: 10
 Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse
 Project Location: Yakima Resources- NG Boiler Bldg.

Lab ID: 28027351 Client Sample #: NGHA-PI1-01

Location: Yakima Resources- NG Boiler Bldg.

Layer 1 of 1 Description: Tan compressed powdery material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	Cellulose 8%	None Detected ND

Lab ID: 28027352 Client Sample #: NGHA-PI1-02

Location: Yakima Resources- NG Boiler Bldg.

Layer 1 of 1 Description: Tan compressed powdery material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	Cellulose 7%	None Detected ND

Lab ID: 28027353 Client Sample #: NGHA-PI1-03

Location: Yakima Resources- NG Boiler Bldg.

Layer 1 of 1 Description: Tan compressed powdery material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	Cellulose 9%	None Detected ND

Lab ID: 28027354 Client Sample #: NGHA-PI2-01

Location: Yakima Resources- NG Boiler Bldg.

Layer 1 of 1 Description: Tan compressed powdery material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	Mineral wool 2%	None Detected ND

Lab ID: 28027355 Client Sample #: NGHA-PI2-02

Location: Yakima Resources- NG Boiler Bldg.

Layer 1 of 1 Description: Pink compressed powdery material

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Binder/Filler	Mineral wool 1%	None Detected ND
	Synthetic fibers 3%	

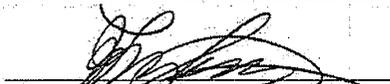
Sampled by: Client

Analyzed by: Lyudmila Veh

Reviewed by: Nick Ly

Date: 04/15/2008

Date: 04/15/2008


 Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

NVL Laboratories, Inc.



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Tel: 206.547.0100, Fax: 206.634.1936
www.nvllabs.com

For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix

Address: 411 108th Ave. NE Ste 1800
Bellevue, WA 98004

Batch #: 2804623.00

Client Project #: 555-5730-001

Date Received: 04/11/2008

Samples Received: 10

Samples Analyzed: 10

Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- NG Boiler Bldg.

Lab ID: 28027356 Client Sample #: NGHA-PI2-03

Location: Yakima Resources- NG Boiler Bldg.

Layer 1 of 1 Description: Tan compressed powdery material

Non-Fibrous Materials:

Other Fibrous Materials: %

Asbestos Type: %

Binder/Filler

Mineral wool 2%

None Detected ND

Cellulose 2%

Lab ID: 28027357 Client Sample #: NGHA-PI2-04

Location: Yakima Resources- NG Boiler Bldg.

Layer 1 of 1 Description: Pink compressed powdery material

Non-Fibrous Materials:

Other Fibrous Materials: %

Asbestos Type: %

Binder/Filler

Mineral wool 2%

None Detected ND

Lab ID: 28027358 Client Sample #: NGHA-BG1-01

Location: Yakima Resources- NG Boiler Bldg.

Layer 1 of 2 Description: Trace gold brittle mastic

Non-Fibrous Materials:

Other Fibrous Materials: %

Asbestos Type: %

Mastic/binder

None Detected ND

None Detected ND

Layer 2 of 2 Description: White fibrous material

Non-Fibrous Materials:

Other Fibrous Materials: %

Asbestos Type: %

Fine particles

Mineral wool 90%

None Detected ND

Lab ID: 28027359 Client Sample #: NGHA-CB1-01

Location: Yakima Resources- NG Boiler Bldg.

Layer 1 of 2 Description: Black rubbery material

Non-Fibrous Materials:

Other Fibrous Materials: %

Asbestos Type: %

Rubber/binder

None Detected ND

None Detected ND

Layer 2 of 2 Description: Off-white soft mastic with paint

Non-Fibrous Materials:

Other Fibrous Materials: %

Asbestos Type: %

Mastic/binder, Paint

None Detected ND

None Detected ND

Sampled by: Client

Analyzed by: Lyudmila Veh

Date: 04/15/2008

Reviewed by: Nick Ly

Date: 04/15/2008

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Parametrix
Address: 411 108th Ave. NE Ste 1800
Bellevue, WA 98004

Batch #: 2804623.00
Client Project #: 555-5730-001
Date Received: 04/11/2008
Samples Received: 10
Samples Analyzed: 10
Method: EPA/600R-93/116

Attention: Mr. Kurt Easthouse
Project Location: Yakima Resources- NG Boiler Bldg.

Lab ID: 28027360 Client Sample #: NGHA-BP1-01

Location: Yakima Resources- NG Boiler Bldg.

Layer 1 of 2 Description: Green paint

Non-Fibrous Materials:
Paint

Other Fibrous Materials: %
None Detected ND

Asbestos Type: %
None Detected ND

Layer 2 of 2 Description: Black crumbly material

Non-Fibrous Materials:
Binder/Filler

Other Fibrous Materials: %
Cellulose 1%

Asbestos Type: %
None Detected ND

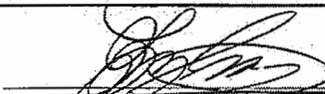
Sampled by: Client

Analyzed by: Lyudmila Veh

Reviewed by: Nick Ly

Date: 04/15/2008

Date: 04/15/2008


Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
 Tel: 206.547.0100 Emerg. Pager: 206.344.1878
 Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

**CHAIN of CUSTODY
 SAMPLE LOG**

BATCH ID
2804623.00

Client Parametrix
 Street 411 106th AVE NE STE 1800
Bellevue, WA 98004

NVL Batch Number _____
 Client Job Number 555-5720-001
 Total Samples 10

Project Manager Kurt Easthouse
 Project Location Yakima Resources - NG Boiler Bldg

Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Please call for TAT less than 24 Hrs
 Email address mwilloughby@parametrix.com

Phone: (425) 458-1020 Fax: (425) 458-6363

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other _____
<input type="checkbox"/> Asbestos Bulk	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM Bulk	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Inst./Det Limit	Matrix	RCRA Metals	<input type="checkbox"/> All 8	Other Metals
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Selenium (Se)	<input type="checkbox"/> Copper (Cu)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Silver (Ag)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Soil	<input type="checkbox"/> Chromium (Cr)		<input type="checkbox"/> Zinc (Zn)
		<input type="checkbox"/> Paint Chips in %	<input type="checkbox"/> Lead (Pb)		
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Other (Specify) _____		
	<input type="checkbox"/> Silica	<input type="checkbox"/> Respirable Dust			

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		NGHA-PI1-01	Boiler Feed Insulation	
2		NGHA-PI1-02	↓	
3		NGHA-PI1-03	↓	
4		NGHA-PI2-01	High Press Steam Insulation	
5		NGHA-PI2-02	↓	
6		NGHA-PI2-03	↓	
7		NGHA-PI2-04	↓	
8		NGHA-BG1-01	Boiler Gaskets	
9		NGHA-CB1-01	White mastic assoc w/bm CB	
10		NGHA-BP1-01	Blue boiler paint	
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	Lara Lunde	Lara Lunde	PMX	4/10/08	
Relinquished by	Lara Lunde	Lara Lunde	PMX	4/10/08	
Received by	Mindy Nguyen	Mindy Nguyen	NVL	4/11/08	10:30
Analyzed by	L. Vek	L. Vek	NVL	04.15.08	06:58
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

NVL Laboratories, Inc.

4708 Aurora Ave. N., Seattle, WA 98103
Tel: 206.547.0100, Fax: 206.634.1936
www.nvlabs.com



Analysis Report

AIHA - IH # 101861
WA - DOE # C1765

Total Lead (Pb)

Client: Parametrix
Address: 411 108th Ave. NE Ste 1800
Bellevue, WA 98004

Batch #: 2804622.00

Matrix: Paint Chips

Method: EPA 7000B

Client Project #: 555-5730-001

Date Received: 04/11/2008

Samples Received: 2

Samples Analyzed: 2

Attention: Mr. Kurt Easthouse

Project Location: Yakima Resources- NG Boiler Bldg.

Lab ID	Client Sample #	Sample Weight	RL in mg/Kg	Results in mg/Kg	Results in percent
28027349	NGHL-01	0.1037	87.0	< 87.0	< 0.0087
28027350	NGHL-02	0.0586	150.0	< 150.0	< 0.0150

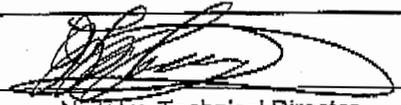
Sampled by: Client

Analyzed by: Tarveer Khan

Reviewed by: Nick Ly

Date Analyzed: 04/17/2008

Date Issued: 04/17/2008


Nick Ly, Technical Director

mg/ Kg =Milligrams per kilogram

Percent = Milligrams per kilogram / 10000

Note : Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

RL = Reporting Limit

'<' = Below the reporting Limit

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103

Tel: 206.547.0100 Emerg. Pager: 206.344.1878

Fax: 206.634.1936 1.866.NVL.LABS (685.5227)

**CHAIN of CUSTODY
SAMPLE LOG**

BATCH ID

2804622.00

Client Parametrix
Street 411 106th Ave NE Ste 1800
Bellevue, WA 98004

NVL Batch Number _____
Client Job Number 555-5730-001
Total Samples 2

Project Manager Kurt Easthouse
Project Location Yakima Resources - NE Corner Bldg

Turn Around Time 1-Hr 24-Hrs 4 Days
 2-Hrs 2 Days 5 Days
 4-Hrs 3 Days 6 to 10 Days

Phone: (425) 458-6200 Fax: (425) 458-6363

Email address mwilloughby@parametrix.com
Please call for TAT less than 24 Hrs

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other _____
<input type="checkbox"/> Asbestos Bulk	LM (EPA/600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (EPA Gravimetry) <input type="checkbox"/> TEM Bulk				
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
METALS	Inst./Det Limit	Matrix		RCRA Metals	<input type="checkbox"/> AILB
<input checked="" type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Paint Chips in cm	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Mercury (Hg)
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Selenium (Se)
	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Other	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Silver (Ag)
		<input type="checkbox"/> Soil		<input type="checkbox"/> Chromium (Cr)	<input type="checkbox"/> Nickel (Ni)
		<input type="checkbox"/> Paint Chips in %		<input type="checkbox"/> Lead (Pb)	<input type="checkbox"/> Zinc (Zn)
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Other (Specify) _____		
	<input type="checkbox"/> Silica	<input type="checkbox"/> Respirable Dust			

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		NEHL-01	Blue boiler paint	
2		NEHL-02	White wall paint	
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	LARA LINDSEY	Lara Lindsey	PMX	4/17/08	
Relinquished by	LARA LINDSEY	Lara Lindsey	PMX	4/17/08	
Received by	Mindy Nansen	Mindy Nansen	NVL	4/17/08	10:30 URS
Analyzed by	TANVEER KHAN	Tanveer Khan	NVL	4-17-08	11:20 AM
Results Called by	TANVEER KHAN	Tanveer Khan	NVL	4-18-08	10:29 AM
Results Faxed by	TANVEER KHAN	Tanveer Khan	NVL	4-18-08	10:21 AM

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

Remove from substrate where necessary.

APPENDIX D

Photographs

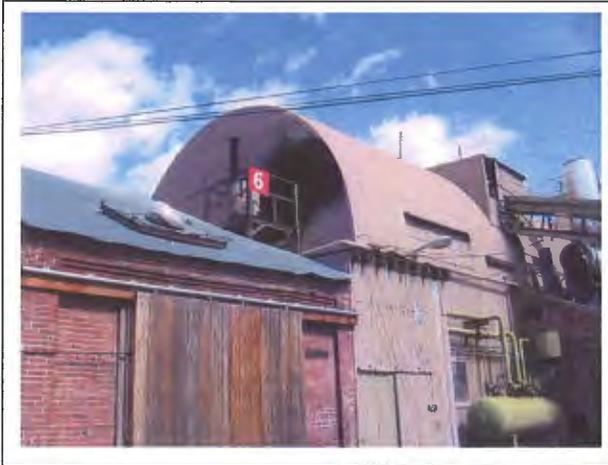


Photo 1. The Hog Fuel Boiler House Building includes both the former brick boiler house and the metal corrugated hog fuel boiler house.



Photo 2. Looking east down the length of the Hog Fuel Boiler House.



Photo 3. North side of the Hog Fuel Boiler House looking southeast.



Photo 4. View between the Hog Fuel Boiler House and the Natural Gas Boiler house on the left looking east.



Photo 5. Natural Gas Boiler House Building located directly north of the Hog Fuel Boiler House.



Photo 6. Caustic vat located inside the Caustic Storage Room of the Hog Fuel Boiler House. The contents of the caustic material are unclear.



Photo 7. Interior view of the caustic vat.



Photo 8. Chemical storage area on the counter in the Water Test Room in the brick boiler house.



Photo 9. Chemical storage cabinet in the Water Test Room.

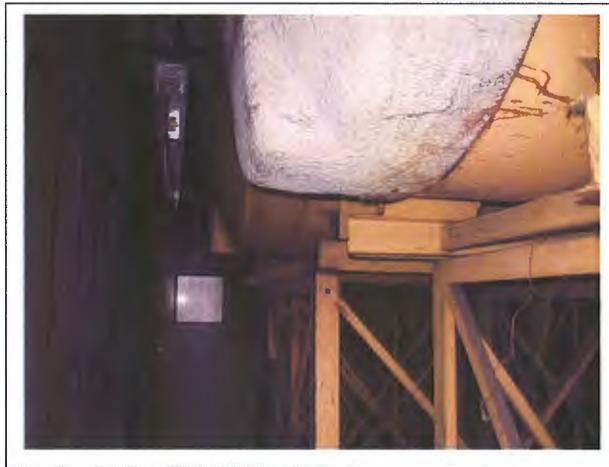


Photo 10. Chemical Storage House adjacent to the Hog Fuel Boiler House.



Photo 11. Chemical storage tank labels detailing contents.



Photo 12. PCB containing fluorescent light ballast.



Photo 13. Water purification tanks located inside the Water Softening Room adjacent to the Hog Fuel Boiler House.



Photo 14. Fire damage in the Spare Parts Room of the former brick boiler house.



Photo 15. Asbestos containing vinyl tile in the bathroom of the Hog Fuel Boiler House.



Photo 16. Asbestos containing window glazing, typical of the Hog Fuel Boiler House.



Photo 17. Asbestos containing piping (painted tan) adjacent to the green above ground storage tank can be seen penetrating the ground on the right.



Photo 18. Generator system in the Hog Fuel Boiler House attached to asbestos containing high pressure steam piping system.



Photo 19. Asbestos containing pipe insulation and associated dust and debris underneath.



Photo 20. Damaged asbestos containing piping.



Photo 21. Asbestos containing piping in poor condition penetrating the siding of the Boiler Room of the Hog Fuel Boiler House.



Photo 22. Asbestos containing debris from above damaged piping resting on siding.



Photo 23. Asbestos containing piping on the exterior of the building. Damage to top two pipes has resulted in pieces falling off to the ground below as seen in Photo 24.



Photo 24. Note the white asbestos containing pipe insulation in the left central portion of the photo in the wood fuel storage area to the south of Boiler 4.



Photo 25. Asbestos containing piping in poor condition on the roof of Boiler 4. Water tank insulation under piping was non-detect for asbestos.



Photo 26. Piping running from the Hog Fuel Boiler House to other locations on the site.



Photo 27. Piping running from the Hog Fuel Boiler House to the Water Storage Facility

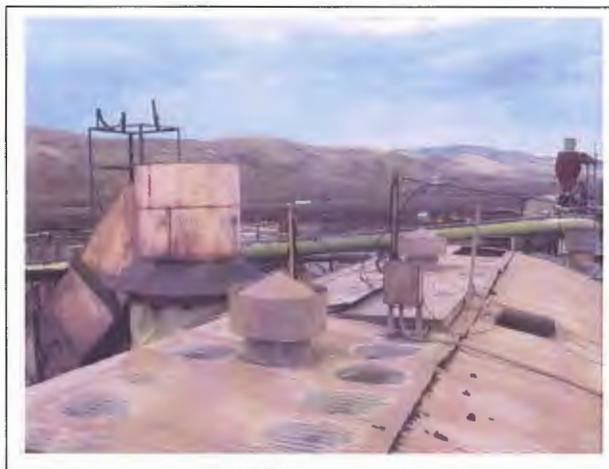


Photo 28. View to the east from the catwalk on the roof of the Hog Fuel Boiler House.

APPENDIX E

Forms



Six So., Second St., Suite 1016, Yakima, WA 98901

Phone: (509) 834-2050, Fax: (509) 834-2060

http://www.co.yakima.wa.us/cleanair

NOTIFICATION OF DEMOLITION AND RENOVATION

FEE RECEIVED	POSTMARK	DATE RECEIVED	NOTIFICATION #
--------------	----------	---------------	----------------

I. TYPE OF NOTIFICATION (**O**-Original, **R**-Revised, **C**-Cancelled): _____

II. OWNER NAME: _____
 Mailing Address: _____ City: _____ State: _____ Zip: _____
 Contact: _____ Telephone: _____ Cell Phone: _____

REMOVAL CONTRACTOR: _____
 Mailing Address: _____ City: _____ State: _____ Zip: _____
 Contact: _____ Telephone: _____ Cell Phone: _____

OTHER OPERATOR: _____
 Mailing Address: _____ City: _____ State: _____ Zip: _____
 Contact: _____ Telephone: _____ Cell Phone: _____

III. TYPE OF OPERATION (**D**-Demo **O**-Ordered Demo **R**-Renovation **E**-Emergency Reno. **H**-House Move): _____

IV. IS ASBESTOS PRESENT? (Yes/No) _____

V. FACILITY DESCRIPTION (Include building name, number & floor/room number)
 Building Name: _____
 Address: _____ City: _____ State: _____ County: _____
 Site Location of Asbestos (basement piping, main floor ceiling, exterior siding, etc.): _____
 Building Size: _____ # of Floors: _____ Age in Years: _____
 Present Use: _____ Prior Use: _____

VI. ASBESTOS SURVEY CONDUCTED? (Yes/No) _____ BY WHOM? _____ PHONE _____
 DATE CONDUCTED _____ LOCATION OF SURVEY REPORT _____

VII. Quantity of Friable ACM to Be Removed	Description of Friable ACM to Be Removed	Quantity of Nonfriable ACM to Be Removed	Description of Nonfriable ACM to Be Removed
Pipes		Category I	
Surface Area		Category II	
Off Component		Other	

VIII. SCHEDULED DATES ASBESTOS REMOVAL (Mo/Da/Yr) Start: _____ Complete: _____
 SCHEDULED WORK WEEK _____ SCHEDULED WORK HOURS _____

IX. SCHEDULED DATES DEMOLITION OR RENOVATION (Mo/Da/Yr) Start: _____ Complete: _____

- a) Is this project covered by a Master or Project Dust Plan? (Yes/No) _____; (If no, one is required from YRCAA.)
 b) If yes, was Notification made to YRCAA? (Yes/No) _____ (Enter Dust Control Plan Number at X., below.)

X. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK & METHODS TO BE USED:
(Demolition Contractors - Notice - A Master Dust Control Plan or a Site Specific Dust Control Plan is required)
Master or Project Dust Plan # _____

XI. DESCRIPTION OF WORK PRACTICES & ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION OR RENOVATION SITE: (Use additional paper if needed) _____

XII. WASTE TRANSPORTER _____
 Address: _____ City: _____ State: _____ Zip: _____
 Contact: _____ Telephone: _____

XIII. WASTE DISPOSAL SITE:
 Name: _____
 Location: _____
 City: _____ State: _____ Zip: _____ Telephone: _____

XIV. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, PLEASE IDENTIFY THE AGENCY BELOW:
 Name: _____ Title: _____
 Authority: _____
 Date of Order (Mo/Da/Yr): _____ Date Ordered to Begin (Mo/Da/Yr): _____

XV. FOR EMERGENCY RENOVATION: Date & Hour of the Emergency (Mo/Da/Yr): _____
 Description of the Sudden, Unexpected Event: _____

Explanation of how the event caused unsafe conditions or would cause equipment damage or an unreasonable financial burden:

XVI. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLLED, PULVERIZED, OR REDUCED TO POWDER: _____

XVII. I CERTIFY THAT WORKERS AND SUPERVISORS CONDUCTING ASBESTOS WORK ARE TRAINED IN ACCORDANCE WITH THE PROVISIONS OF 40 CFR, PART 61, SUBPART M, AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED WILL BE AVAILABLE ON SITE FOR INSPECTION DURING NORMAL WORKING HOURS.

 (Signature - Owner/Operator) _____ Date

XVIII. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT.

 (Signature - Owner/Operator) _____ Date

NOTIFICATION FEE SCHEDULE

AMOUNT OF ASBESTOS TO BE REMOVED	FEE	TYPE
Over 10,000 L.F. OR Over 50,000 S.F.	\$645	Demolition Or Renovation
1,001-10,000 L.F. OR 5,001-50,000 S.F.	\$323	Demolition Or Renovation
261 - 1,000 L.F. OR 161 - 5,000 S.F.	\$125	Demolition Or Renovation
11 - 260 L.F. OR 49 - 160 S.F.	\$66	Demolition Or Renovation
0 - 10 L.F. OR 0 - 48 S.F.	\$33	Demolition Only
Any Amount	\$59	Renovation Conducted By Owner At An Owner Occupied Single Family Residence
Any Amount	\$129	Removal - Commercial Flat Built-up Roofs
Up to 260 L.F. OR 160 S.F.	\$258	Annual Notice
OTHER CHARGES - ADD TO QUANTITY BASED FEE		

Any Amount	\$66	Emergency Demolition or Renovation
Any Amount	\$29	Revision of Existing Notification



ASBESTOS ABATEMENT PROJECT NOTICE OF INTENT L&I DOSH ASBESTOS PROGRAM

This notice must be received no later than 10 calendar days prior to the start date.

Complete all applicable boxes—incomplete or illegible notices will not be accepted. Circle changes on amended notices.

Mail to the address above or fax to (360) 902-4409.

Submit this form online or get more information at <http://www.lni.wa.gov/TradesLicensing/LicensingReq/Asbestos/>

Notice date: / /	Initial <input type="checkbox"/> Amended <input type="checkbox"/>	Site Work Hours	Su	Mo	Tu	We	Th	Fr	Sa
Start date: / /	On Hold <input type="checkbox"/> Off Hold <input type="checkbox"/>	am am							
Completion: / /	Emergency <input type="checkbox"/>	to	Project Dates and Work Hours must be Exact						
		pm pm							

CONTRACTOR		PROPERTY OWNER	
Company Name		Name	
Contractor Certification Number		Owner's Agent	
Signature		Company	
Printed Name		Address	
Phone Number		City	State ZIP+4
Job Site C.A.S.		Phone number	
JOB SITE		FACILITY	
Address		Type	
Building Name	Room	Age	Size
City WA		<input type="checkbox"/> Remodel	<input type="checkbox"/> Demolition
ZIP + 4	County	<input type="checkbox"/> Repair	<input type="checkbox"/> Maintenance

QUANTITY OF ASBESTOS TO BE: **REMOVED** **ENCAPSULATED**

Quantity _____ square feet		<input type="checkbox"/> Indoors <input type="checkbox"/> Outdoors	
<input type="checkbox"/> Fireproofing	<input type="checkbox"/> Boiler insulation	CONTROL MEASURES	
<input type="checkbox"/> Popcorn ceiling	<input type="checkbox"/> Duct paper	<input type="checkbox"/> Neg. pres. enclosure	<input type="checkbox"/> Wrap & cut
<input type="checkbox"/> CAB	<input type="checkbox"/> VAT	<input type="checkbox"/> Glove bag	<input type="checkbox"/> Wet methods
<input type="checkbox"/> Sheet vinyl	<input type="checkbox"/> Roofing	<input type="checkbox"/> Mini enclosure	<input type="checkbox"/> HEPA vacuum
<input type="checkbox"/> Asbestos paper	<input type="checkbox"/> Other _____	<input type="checkbox"/> Critical barriers	<input type="checkbox"/> Manual methods
Quantity _____ linear feet		<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____
<input type="checkbox"/> Mag. pipe insulation	<input type="checkbox"/> Cement asbestos pipe	RESPIRATORY PROTECTION	
<input type="checkbox"/> Air cell pipe insulation	<input type="checkbox"/> Mudded pipe ins.	<input type="checkbox"/> ½ mask APR	<input type="checkbox"/> Type C continuous flow
<input type="checkbox"/> Ducting/duct insulation	<input type="checkbox"/> Duct tape	<input type="checkbox"/> Full face APR	<input type="checkbox"/> Type C pressure demand
<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____	<input type="checkbox"/> PAPR	<input type="checkbox"/> Other _____

APPENDIX C

Historical Water Level Data

Historical Water Level Data

Well ID	Date Measured	Casing Elevation (feet MSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet MSL)
MW-1	10/16/98	1065.95	4.20	1061.75
	2/5/08		5.20	1060.75
MW-3	10/16/98	1068.70	11.88	1056.82
	N/A		N/A	N/A
MW-4	10/16/98	1069.77	11.23	1058.54
	N/A		N/A	N/A
MW-5	10/16/98	1054.18	8.64	1045.54
	2/7/08		9.25	1044.93
MW-6	10/16/98	1056.25	13.34	1042.91
	2/7/08		15.47	1040.78
MW-7	10/16/98	1045.67	8.45	1037.22
	2/6/08		10.89	1034.78
MW-8	10/16/98	1048.15	6.19	1041.96
	2/6/08		10.70	1037.45
MW-9	10/16/98	1064.03	11.46	1052.57
	2/6/08		17.03	1047
MW-9A	N/A	N/A	N/A	N/A
	3/25/08		16.85	N/A
MW-10	10/16/98	1066.63	11.21	1055.42
	2/6/08		12.29	1054.34

APPENDIX D

Exploratory Boring and Test Pit Logs

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** B-1
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** March 3, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 15.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽ 13.0
DRILLING METHOD Sonic **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Deutsch/Saul
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
					5	SM		ASPHALT GRAVELLY SILTY SAND (SM), dark gray, fine- to coarse-grained sand, fine to coarse subrounded gravel, moist, medium dense, trace of red brick	5	
						ML		SANDY SILT (ML), dark gray, 40% fine-grained sand, trace of fine subrounded gravels, moist, stiff		
						SM		GRAVELLY SILTY SAND (SM), dark gray, fine- to coarse-grained sand, fine to coarse subrounded gravel, moist, medium dense, trace of red brick		
								@ 6 to 10 feet: No recovery		
					10	SM		GRAVELLY SILTY SAND (SM), dark gray, fine- to coarse-grained sand, fine to coarse subrounded gravel, moist, medium dense, trace of red brick	10	
						ML		SANDY SILT (ML), dark gray, 20% fine-grained sand, wet, stiff, trace of organic, thin lens of medium-grained sand, trace of subangular gravel		
					15	SM		GRAVELLY SILTY SAND (SM), dark gray, fine- to coarse-grained sand, fine to coarse subrounded gravel, wet to damp, medium dense, trace of red brick Bottom of Boring @ 15 feet	15	
					20				20	
					25				25	
					30				30	
					35				35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** B-2
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** March 3, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 15.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽ 13.0
DRILLING METHOD Sonic **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Deutsch/Saul
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
								CONCRETE		
						GW		3/4 MINUS PEA GRAVEL		
						GP		SILTY SANDY GRAVEL (GP), grayish brown, subrounded fine to medium gravels, fine- to coarse-grained sand, damp, medium dense @ 3 feet: Becomes sandy silty	5	
					10	GM		POORLY GRADED GRAVEL (GM), gray, fine to coarse angular gravels, 30% fines, loose	10	
			GRAB B-2-13	G	15	GP		SILTY SANDY GRAVEL (GP), grayish brown, subrounded fine to medium gravels, fine- to coarse-grained sand, damp, medium dense	15	
					15			Bottom of Boring @ 15 feet	15	
					20				20	
					25				25	
					30				30	
					35				35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** B-4
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** March 4, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 15.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽
DRILLING METHOD Sonic **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Deutsch/Saul
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
							X	ASPHALT WOOD DEBRIS fill		
					5		X	SILTY SANDY GRAVEL (GP) fill, grayish brown, fine- to coarse-grained sand, subrounded gravels, damp, medium dense	5	
					10		X	@ 10 to 11 feet: Saturated SANDY SILT (ML) fill, dark gray, high plasticity, fine- to medium-grained sand, moist to wet, stiff, trace of organics/bark	10	
			GRAB B-4-13 B-4D-13	G	15		X	SILT AND WOOD DEBRIS MIX fill WOOD CHUNK fill	15	
							X	Bottom of Boring @ 15 feet	15	
					20		X		20	
					25		X		25	
					30		X		30	
					35		X		35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** B-5
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** March 4, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 15.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽
DRILLING METHOD Sonic **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Deutsch/Saul
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
								CONCRETE		
								SILTY SANDY GRAVEL (GP) fill, grayish brown, subrounded fine to coarse gravels, fine- to coarse-grained sand, damp, medium dense		
						ML		BRICK fill		
								SANDY SILT (ML), brown, 80% silt, 20% fine-grained sand, moist to wet, very soft		
					5	GP		SILTY SANDY GRAVEL (GP), grayish brown, subrounded fine to coarse gravels, fine- to coarse-grained sand, damp, medium dense	5	
					10			@ 10 feet: Wet (possibly capillary fringe)	10	
			GRAB B-5-10.5							
					15			Bottom of Boring @ 15 feet	15	
					20				20	
					25				25	
					30				30	
					35				35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER	555-5753-001	BORING/WELL NUMBER	B-6
PROJECT NAME	Former Boise Cascade Mill Site	DATE COMPLETED	March 4, 2008
LOCATION	Yakima, WA	TOTAL DEPTH OF BORING	15.0
COORDINATES		INITIAL WATER LEVEL	▽
DRILLING METHOD	Sonic	STATIC WATER LEVEL	▽
SAMPLING METHOD		LOGGED BY	Deutsch/Saul
GROUND ELEVATION		TOP OF CASING ELEVATION	

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
					0	GP		ASPHALT	0	
					5	GP		SILTY SANDY GRAVEL (GP), gray brown, 3/4 minus pea gravel with subangular large gravel, fine- to coarse-grained sand, dry, dense	5	
					8	ML		SANDY GRAVELLY SILT (ML), brown, fine- to coarse-grained sand, subrounded fine to medium gravel, moist, medium stiff	8	
					10	GP		SILTY SANDY GRAVEL (GP), grayish brown, fine- to coarse-grained sand, subrounded fine to medium gravels, damp, medium dense	10	
			GRAB B-6-14		15			Bottom of Boring @ 15 feet	15	
					20				20	
					25				25	
					30				30	
					35				35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** B-7
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** March 4, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 15.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽
DRILLING METHOD Sonic **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Deutsch/Saul
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
						ML		CONCRETE		
						GP		SANDY SILT (ML), dark grayish brown, 60% silt, 40% fine-grained micaceous sand, moist, very stiff		
								SILTY SANDY GRAVEL (GP), dark gray, fine- to medium-grained sand with trace of coarse, fine to coarse subrounded gravel with cobbles, damp, dense		
			GRAB B-7-14	G	15			Bottom of Boring @ 15 feet	15	
					5				5	
					10				10	
					20				20	
					25				25	
					30				30	
					35				35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** B-8
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** March 4, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 15.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽
DRILLING METHOD Sonic **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Deutsch/Saul
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
						SW GW		ASPHALT SILTY GRAVELLY SAND (SW), black, fine- to coarse-grained sand, damp, medium dense SILTY SANDY GRAVEL (GW), dark gray, fine to coarse subrounded gravel with cobbles, fine- to medium-grained sand with trace of coarse, damp, dense	5 10 15 20 25 30 35	
			GRAB B-8-14	G	15			Bottom of Boring @ 15 feet		

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** B-9
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** March 4, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 15.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽ 13.0
DRILLING METHOD Sonic **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Deutsch/Saul
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
			GRAB B-9-7	G	5			WOOD DEBRIS fill SILTY GRAVELLY SAND (SP) fill, dark gray, 40% fine- to medium-grained sand, 20% fine to coarse subrounded gravel, damp, medium dense @ 1.25 feet: Becomes black, moist, trace of wood debris and organics, sweet odor (due to decomposition of wood)	5	
			GRAB B-9-12	G	10	GP		3/4 MINUS PEA GRAVEL fill SILTY SANDY GRAVEL (GP), very dark gray, fine- to medium-grained sand with trace of coarse, fine to coarse subrounded gravel with cobbles, moist to wet, dense, slight odor (possibly due to decomposition of wood debris) ▽	10	
					15			Bottom of Boring @ 15 feet	15	
					20				20	
					25				25	
					30				30	
					35				35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** GP-1
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** February 25, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 15.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽
DRILLING METHOD Backhoe **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Deutsch/Saul
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
								WOOD DEBRIS fill, grayish brown, bark with silt, dry, loose		
					5			SILTY SAND (SM) with cobbles and wood debris fill, dark gray, fine- to medium-grained sand, moist (capillary saturation), medium dense	5	
								SANDY SILT (ML) fill, dark gray, medium plasticity, fine-grained micaceous sand, wet, medium stiff		
								WOOD DEBRIS fill, red, possible pond settle out, pinches out to the north		
					10	GP		SILTY SAND COBBLES (GP), dark gray, fine- to medium-grained sand, trace fine subrounded gravel, moist, dense	10	
					15			Bottom of boring @ 15 feet Boring converted to 3/4" gas probe	15	
					20					
					25					
					30					
					35					

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** GP-2
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** February 26, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 9.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽ 9.0
DRILLING METHOD Backhoe **STATIC WATER LEVEL** ▽ 8.5
SAMPLING METHOD _____ **LOGGED BY** Deutsch/Saul
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
					0			SILTY GRAVELLY SAND (SW) fill, very dark gray, fine- to coarse-grained sand, damp, medium dense	0	
					5			GRAVELLY SAND (SW) fill, very dark gray, fine- to coarse-grained sand, fine to coarse subrounded gravel to subrounded cobbles, moist, medium dense @ 3 feet: Hit Cable Line @ 4.5 feet: Concrete debris and brick	5	
					10			@ 8.5 feet: Wet Bottom of boring @ 9 feet Boring converted to 3/4" gas probe	10	
					15				15	
					20				20	
					25				25	
					30				30	
					35				35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** GP-3
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** March 3, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 15.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽ 12.0
DRILLING METHOD Sonic **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Deutsch/Saul
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
								ASPHALT		
						GW		SILTY SANDY GRAVEL (GW), dark gray, 40% fine to coarse gravel, 35% fine- to coarse-grained sand, 25% silt, damp, dense		
					5	SM		SILTY SAND (SM), dark gray, fine- to coarse-grained sand, moist, dense	5	
			GRAB GP-3-12	G						
								Bottom of boring @ 15 feet Boring converted to 3/4" gas probe	15	
					20				20	
					25				25	
					30				30	
					35				35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER	555-5753-001	BORING/WELL NUMBER	MW-9A
PROJECT NAME	Former Boise Cascade Mill Site	DATE COMPLETED	March 4, 2008
LOCATION	Yakima, WA	TOTAL DEPTH OF BORING	30.0
COORDINATES		INITIAL WATER LEVEL	▽ 18.0
DRILLING METHOD	Sonic	STATIC WATER LEVEL	▼
SAMPLING METHOD		LOGGED BY	Deutsch/Saul
GROUND ELEVATION		TOP OF CASING ELEVATION	

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
					0	GP		<p>ASPHALT</p> <p>SILTY SANDY GRAVEL (GP), grayish brown, subrounded fine to coarse gravels fine- to coarse-grained sand, damp, medium dense</p> <p>@ 13 feet: Becomes moist</p> <p>@ 17 feet: Becomes saturated</p> <p>@ 28 feet: Becomes wet</p> <p>Bottom of Boring @ 30 feet Converted into 1" monitoring well</p>	0	
					5				5	
					10				10	
					15				15	
					20				20	
					25				25	
					30				30	
					35				35	

BWC YAKIMA RESOURCES LOGS.GPJ 6/10/08

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** TP-11
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** February 27, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 14.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽
DRILLING METHOD Backhoe **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Deutsch/Saul
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
								WOOD DEBRIS fill, dark reddish brown, dry, loose		
0.9			GRAB TP-11-4	⊙	5			SILTY SANDY GRAVEL (GP) fill, gray, subrounded gravels, fine- to coarse-grained sand, damp, medium dense @ 4 feet: Saturated zone SANDY SILT (ML) fill, dark gray, fine- to medium-grained sand, moist, stiff WOOD DEBRIS fill	5	
					10			SAWDUST fill	10	
0.5			GRAB TP-11-14	⊙	15	ML		SILT (ML), dark gray, moist, medium stiff		
					15			Bottom of Test Pit @ 14 feet	15	
					20				20	
					25				25	
					30				30	
					35				35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** TP-12
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** February 27, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 13.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽
DRILLING METHOD Backhoe **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Deutsch/Saul
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
					5			WOOD DEBRIS fill, dark reddish brown (5YR 3/2), dry, loose @ 1 foot: Filter fabric 3/4 MINUS PEA GRAVEL fill	5	
40			GRAB TP-12-13 TP-12D-13		15	ML		SANDY SILT (ML), dark gray, fine- to medium-grained sand, with gravel, moist, medium stiff @ 12.5 feet: Product visible on sandy silt Bottom of Test Pit @ 13 feet	15	
					20				20	
					25				25	
					30				30	
					35				35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** TP-13
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** February 27, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 8.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽
DRILLING METHOD Backhoe **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Deutsch/Saul
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
0			GRAB TP-13-8					SANDY SILT (ML) fill, black, fine-grained sand, moist, soft @ 0.5 foot: Becomes brown, medium stiff		
					5	GW		SANDY GRAVEL (GW), very dark grayish brown, fine to coarse subrounded gravel and subrounded cobbles, fine-to coarse-grained sand, moist, dense	5	
					10			Bottom of Test Pit @ 8 feet	10	
					15				15	
					20				20	
					25				25	
					30				30	
					35				35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** TP-14
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** April 9, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 17.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽ 15.5
DRILLING METHOD Backhoe **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Linde
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
							GRAPHIC LOG			
					5			BARK DEBRIS fill	5	
					10			WOOD DEBRIS fill, bark mixed with few cobbles	10	
					15	ML		@ 14.5 feet: Red waxy coating on bark, moist SILT (ML), gray, non-plastic, moist to wet, organic odor, wood and leaf debris	15	
					20			Bottom of Test Pit @ 17 feet	20	
					25				25	
					30				30	
					35				35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** TP-15
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** April 9, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 15.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽ 13.5
DRILLING METHOD Backhoe **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Linde
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
					0			TOPSOIL with bark debris fill	0	
					5			SILT MATRIX (GM) with gravels fill, small to medium gravel nearly cemented, moist, no odor BARK DEBRIS fill	5	
					10				10	
					12			@ 12 feet: 18" diameter x 12" wide log round intact		
					13			@ 13 feet: Redy, waxy coating on bark, bark moist	▽	
					15	ML		SILT (ML), gray, plastic, wet, organic odor, wood and root debris	15	
					15			Bottom of test pit @ 15 feet		
					20				20	
					25				25	
					30				30	
					35				35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** TP-16
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** April 9, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 15.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽ 13.5
DRILLING METHOD Backhoe **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Linde
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
			GRAB TP-16-2		0			TOPSOIL with bark debris fill		
					5			BARK DEBRIS fill, gray, no odor @ 3 feet: Becomes darker gray	5	
					10				10	
					13			@ 13 feet: Red, waxy coating on bark, bark moist	13	
					15	ML		SILT (ML), gray, non-plastic to slightly plastic, occasional sand lenses, organic odor, root and wood debris	15	
					15			Bottom of test pit @ 15 feet	15	
					20				20	
					25				25	
					30				30	
					35				35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** TP-17
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** April 9, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 14.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽ 13.0
DRILLING METHOD Backhoe **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Linde
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
			GRAB TP-17-1 GRAB TP-17-2 GRAB TP-17-3	G G G G	0 5 10 15 20 25 30 35			<p>TOPSOIL with bark debris fill</p> <p>WOOD DEBRIS fill mixed with soil, gray to dark gray, burned wood appearance and chemical odor</p> <p>@ 2.5 feet: No more burned wood or odor</p> <p>@ 2.83 feet: Burned wood and burned odor</p> <p>@ 3.33 feet: Gray silt lens with mild to medium petroleum odor</p> <p>@ 3.5 feet: Wood debris with no burned wood or odor</p> <p>BARK DEBRIS fill, red-orange</p> <p>@ 12.5 feet: Red, waxy coating on bark, bark moist</p> <p>SILT (ML), gray, slightly plastic to plastic, moist to wet, occasional sand lenses, wood, bark, and root debris, organic odor</p> <p>Bottom of test pit @ 14 feet</p>	<p>5</p> <p>10</p> <p>15</p> <p>20</p> <p>25</p> <p>30</p> <p>35</p>	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** TP-18
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** May 19, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 20.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽ 20.0
DRILLING METHOD Backhoe **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Romey
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
								WOOD DEBRIS FILL		
						GW		GRAVEL, brown, damp		
						GW		GRAVEL with sand, brown, damp		
0			GRAB TP-18-5	G	5	GW		COBBLES with gravelly sand, large cobbles, gray, damp @ 5 feet: Slight odor	5	
0.2			GRAB TP-18-7B	G				LARGE COBBLES, gray @ 7 feet: Strong diesel odor; wood pilings with wood crossbeam and large piece of concrete (northeast corner of test pit)		
								@ 13 feet: Strong decomposition odor		
0						GM		COBBLES with clayey silt, gray, moist		
								▽	20	
									25	
									30	
									35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** TP-19
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** May 19, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 8.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽
DRILLING METHOD Backhoe **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Romey
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
TP-19-3			GRAB 0	G	5	ML		SAND AND GRAVEL FILL	5	
								SILT, dark, damp organic, strong odor		
						GW		GRAVEL with sand, brown, damp @ 7 feet: Becomes gray with oily sheen		
					10				10	
					15				15	
					20				20	
					25				25	
					30				30	
					35				35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** TP-20
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** May 19, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 13.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽
DRILLING METHOD Backhoe **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Romey
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
0						GW		SAND AND GRAVEL FILL with concrete		
								@ 1 feet: Layer of textile		
					5	GW		GRAVELLY SANDY COBBLES, brown, damp	5	
0			GRAB TP-20-10		10			GRAVELLY SANDY COBBLES with boulders, gray, damp slight hydrocarbon odor	10	
					15				15	
					20				20	
					25				25	
					30				30	
					35				35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** TP-21
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** May 19, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 13.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽
DRILLING METHOD Backhoe **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Romey
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
0			GRAB G TP-21-13					DEBRIS fill with gravel GRAVEL fill, brown, damp PEA GRAVEL fill, gray, damp WOOD DEBRIS fill with gravel, ash, sand, large timbers, gray, damp		

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** TP-22
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** May 19, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 13.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽
DRILLING METHOD Backhoe **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Romey
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
0			GRAB G TP-22-13		0		X	WOOD DEBRIS fill with cobbles, brown, damp	0	
					5		X	COBBLES with gravel, gray, damp	5	
					5		X	WOOD DEBRIS fill with cobbles and ash, gray, damp, slight decomposition/sewage odor	5	
					10		X		10	
					15		X		15	
					20		X		20	
					25		X		25	
					30		X		30	
					35		X		35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** TP-23
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** May 19, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 11.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽ 11.0
DRILLING METHOD Backhoe **STATIC WATER LEVEL** ▼
SAMPLING METHOD _____ **LOGGED BY** Romey
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
					5			WOOD DEBRIS fill	5	
0			GRAB TP-23-7	G	7	SW		SAND with cobbles, gray, moist @ 7 feet: Slight PCP odor	7	
0			GRAB TP-23-11	G	11				11	
					15				15	
					20				20	
					25				25	
					30				30	
					35				35	

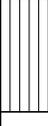
BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** TP-24
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** May 19, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 11.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽ 11.0
DRILLING METHOD Backhoe **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Romey
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
0			GRAB TP-24-4	G	5			WOOD DEBRIS fill		
					5			@ 4 feet: Textile, slight odor COBBLES with gravel, angular cobbles, gray, angular, damp	5	
								SAND with gravel and cobbles, gray, moist		
					10				10	
					15				15	
					20				20	
					25				25	
					30				30	
					35				35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** TP-26
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** May 19, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 10.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽ 10.0
DRILLING METHOD Backhoe **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Romey
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
0			GRAB TP-26-7	G				WOOD DEBRIS fill		
					5	CL		CLAY, gray, damp, low plasticity	5	
					10	ML		SANDY SILT, gray, moist	10	
					15					
					20					
					25					
					30					
					35					

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** TP-8
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** February 27, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 13.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽ 13.0
DRILLING METHOD Backhoe **STATIC WATER LEVEL** ▽ 12.5
SAMPLING METHOD _____ **LOGGED BY** Deutsch/Saul
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
0			GRAB TP-8-2	G	0			WOOD DEBRIS fill, dark reddish brown, dry, loose		
					5			SILTY SAND (SM) fill, dark gray, fine- to coarse-grained sand, damp, very dense WOOD DEBRIS fill, red and yellow logs, sawdust, bark	5	
					10	ML		SILT (ML), dark gray, trace fine-grained sand, wet to saturated, very soft	10	
0			GRAB TP-8-12/5	G	13			Bottom of Test Pit @ 13 feet	13	
					15				15	
					20				20	
					25				25	
					30				30	
					35				35	

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-5753-001 **BORING/WELL NUMBER** TP-9
PROJECT NAME Former Boise Cascade Mill Site **DATE COMPLETED** February 27, 2008
LOCATION Yakima, WA **TOTAL DEPTH OF BORING** 13.0
COORDINATES _____ **INITIAL WATER LEVEL** ▽
DRILLING METHOD Backhoe **STATIC WATER LEVEL** ▽
SAMPLING METHOD _____ **LOGGED BY** Deutsch/Saul
GROUND ELEVATION _____ **TOP OF CASING ELEVATION** _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
0			GRAB TP-9-1.5	G	0	ML		SANDY SILT (ML) trace gravel, dark brown, fine-grained sand, fine to coarse gravels, damp, medium stiff		
					5			SANDY COBBLES, dark brown, subrounded cobbles, fine- to coarse-grained sand, damp, medium dense	5	
					10			@ 9 to 9.5 feet: 0.5 feet of coarse, rounded gravels with no fines	10	
0			GRAB TP-9-13	G	13			Bottom of Test Pit @ 13 feet	15	
					20				20	
					25				25	
					30				30	
					35				35	

APPENDIX E

Methane Calibration Record

APPENDIX F

Summary of Groundwater, Surface Water, and Soil Data

Table F-1. Former Boise Cascade Mill Site 2008 Groundwater and Surface Water Data

PARAMETERS	Units	Analytical Method	Groundwater Regulatory Standards				MW-1	MW-5	MW-6	MW-7	MW-7D	MW-8	MW-9A	MW-10	EVP-W	EVP-WD	KILN1-W	KILN2-W	REC-W	STL-W	TRIP BLANK	TRIP BLANK	TRIP BLANK		
			MCL	MTCA A	MTCA B carcin.	non-carc.	02/05/08	02/07/08	02/07/08	02/06/08	02/06/08	02/06/08	03/25/08	02/06/08	02/28/08	02/28/08	02/28/08	02/28/08	02/28/08	02/28/08	02/05/08	02/28/08	03/25/08		
FIELD DATA																									
Conductivity	µmhos/cm		700	**		225	394	413	561	--	681	319	543	--	--	--	--	--	--	--	--	--			
pH (units)	std units		6.5-8.5	**		6.44	NA	NA	NA	--	NA	6.79	NA	--	--	--	--	--	--	--	--	--			
Temperature (C)	Celsius					12.29	12.56	12.30	15.77	--	15.23	14.70	14.99	--	--	--	--	--	--	--	--	--			
Dissolved Oxygen (mg/L)	mg/L					2.78	1.72	1.35	0.9	--	3.61	3.12	0.82	--	--	--	--	--	--	--	--	--			
TOTAL PETROLEUM HYDROCARBONS																									
Diesel Range Hydrocarbons	mg/L	NWTPH-Dx		0.5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		
Motor Oil	mg/L	NWTPH-Dx		0.5		0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U		
Gasoline Range Hydrocarbons	mg/L	NWTPH-Gx		1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		
Benzene	µg/L	SW8021BMod	5	5	0.795	32	1.0	U	1.0	U	1.0	U													
Toluene	µg/L	SW8021BMod	1000	1000		640	1.0	U	1.0	U	1.0	U													
Ethylbenzene	µg/L	SW8021BMod	700	700		800	1.0	U	1.0	U	1.0	U													
m,p-Xylene	µg/L	SW8021BMod	10000	*XY	1000	*XY	1600	1.0	U	1.0	U	1.0	U												
o-Xylene	µg/L	SW8021BMod	10000	*XY	1000	*XY	1600	1.0	U	1.0	U	1.0	U												
CONVENTIONALS																									
pH	std units	EPA 150.1	6.5-8.5	**		6.72	6.99	6.64	6.49	6.50	6.76	6.77	6.81	7.41	7.37	8.00	8.89	--	--	--	--	--	--		
Alkalinity	mg/L CaCO3	SM 2320				99.5	196	194	274	274	306	127	283	--	--	--	--	--	--	--	--	--	--		
Carbonate	mg/L CaCO3	SM 2320				1.0	U	1.0	U	1.0	U	1.0	U	--	--	--	--	--	--	--	--	--	--		
Bicarbonate	mg/L CaCO3	SM 2320				99.5	196	194	274	274	306	--	283	--	--	--	--	--	--	--	--	--	--		
Total Dissolved Solids	mg/L	EPA 160.1	500	**		161	278	253	336	318	333	210	361	--	--	--	--	--	--	--	--	--	--		
Hydroxide	mg/L CaCO3	SM 2320				1.0	U	1.0	U	1.0	U	1.0	U	--	--	--	--	--	--	--	--	--	--		
Chloride	mg/L	EPA 325.2	250	**		8.9	13.1	14.2	19.4	19.0	32.8	15.6	14.8	--	--	--	--	--	--	--	--	--	--		
N-Ammonia	mg-N/L	EPA 350.1M				0.044	0.951	0.720	6.35	6.18	21.2	0.038	0.965	--	--	--	--	--	--	--	--	--	--		
N-Nitrate	mg-N/L	Calculated	10			1.25	0.050	U	0.077	0.050	U	0.050	U	0.196	1.41	0.050	U	--	--	--	--	--	--		
N-Nitrite	mg-N/L	EPA 353.2	1			0.010	U	0.050	U	0.050	U	0.050	U	0.019	0.223	0.050	U	--	--	--	--	--	--		
Nitrate + Nitrite	mg-N/L	EPA 353.2				1.25	0.050	U	0.077	0.050	U	0.050	U	0.215	1.63	0.050	U	--	--	--	--	--	--		
Sulfate	mg/L	EPA 375.2	250	**		10.2	13.5	5.1	5.5	5.5	5.6	17.9	8.9	--	--	--	--	--	--	--	--	--	--		
Total Organic Carbon	mg/L	EPA 415.1				1.50	U	8.25	7.22	6.51	6.47	8.77	1.50	U	9.17	--	--	--	--	--	--	--	--		
TOTAL METALS																									
Arsenic	mg/L	SW6010B-Total	0.01	0.005	0.000058	0.0048	0.05	U	0.05	U	0.05	U													
Barium	mg/L	SW6010B-Total	2			3.2	0.018	0.062	0.045	0.062	0.064	0.068	0.404	0.029	0.007	0.007	0.139	0.052	0.099	0.034	--	--	--		
Cadmium	mg/L	SW6010B-Total	0.005	0.005		0.008	0.002	U	0.002	U	0.002	U													
Calcium	mg/L	SW6010B-Total					24.6	41.0	36.0	43.3	45.5	37.2	51.5	8.62	8.48	32.5	16.3	47.9	14.9	--	--	--	--		
Chromium	mg/L	SW6010B-Total	0.1	***	0.05	0.048	0.005	U	0.005	U	0.005	U													
Iron	mg/L	SW6010B-Total	0.3	**			1.92	7.33	26.2	33.6	35.1	11.5	96.8	8.84	0.39	0.45	4.29	0.90	9.15	7.95	--	--	--		
Lead	mg/L	SW6010B-Total	0.015	0.015			0.02	U	0.02	U	0.02	U													
Manganese	mg/L	SW6010B-Total	0.05	**		2.2	0.247	0.863	2.38	2.26	2.36	2.24	3.24	4.79	0.048	0.049	0.445	0.114	1.08	0.631	--	--	--		
Mercury	mg/L	SW7470A-Total	0.002		0.002	0.0048	0.0001	U	0.0001	U	0.0001	U													
Potassium	mg/L	SW6010B-Total					2.8	24.6	9.8	10.3	10.7	29.0	10.3	11.1	3.8	3.7	20.0	5.5	47.1	22.3	--	--	--		
Selenium	mg/L	SW6010B-Total	0.05			0.08	0.05	U	0.05	U	0.05	U													
Silver	mg/L	SW6010B-Total				0.08	0.003	U	0.003	U	0.003	U													
Sodium	mg/L	SW6010B-Total					12.2	18.4	15.6	20.5	21.2	32.5	21.1	26.1	36.3	36.4	8.2	9.5	34.1	28.6	--	--	--		
DISSOLVED METALS																									
Arsenic	mg/L	SW6010B-Diss	0.01	0.005	0.000058	0.0048	0.05	U	0.05	U	0.05	U													
Barium	mg/L	SW6010B-Diss	2			3.2	0.008	0.063	0.047	0.069	0.071	0.072	0.013	0.029	0.008	0.008	0.055	0.014	0.031	0.024	--	--	--		
Cadmium	mg/L	SW6010B-Diss	0.005	0.005		0.008	0.002	U	0.002	U	0.002	U													
Calcium	mg/L	SW6010B-Diss					24.9	41.6	37.9	48.1	48.5	39.1	29.4	8.79	8.84	27.5	14.6	43.5	14.8	--	--	--	--		
Chromium	mg/L	SW6010B-Diss	0.1	***	0.05	0.048	0.005	U	0.005	U	0.005	U													
Iron	mg/L	SW6010B-Diss	0.3	**			0.05	U	7.03	27.5	37.5	37.7	12.2	0.27	8.34	0.21	0.05	U	0.05	U	0.05	U	0.05	U	
Lead	mg/L	SW6010B-Diss	0.015	0.015			0.02	U	0.02	U	0.02	U													
Manganese	mg/L	SW6010B-Diss	0.05	**		2.2	0.001	U	0.861	2.52	2.52	2.53	2.34	0.872	4.89	0.045	0.046	0.098	0.001	U	0.807	0.581	--	--	
Mercury	mg/L	SW7470A-Diss	0.002		0.002	0.0048	0.0001	U	0.0001	U	0.0001	U													
Potassium	mg/L	SW6010B-Diss					2.8	25.5	10.2	11.4	11.3	29.9	4.4	11.5	3.8	3.8	19.9	5.3	46.4	22.2	--	--	--		
Selenium	mg/L	SW6010B-Diss	0.05			0.08	0.05	U	0.05	U	0.05	U													
Silver	mg/L	SW6010B-Diss				0.08	0.003	U	0.003	U	0.003	U													
Sodium	mg/L	SW6010B-Diss					12.7	19.0	16.5	22.9	22.9	33.8	15.7	26.5	37.4	38.1	8.2	10.3	33.5	29.6	--	--	--		
VOLATILE ORGANICS																									
Chloromethane	µg/L	SW8260			3.37		1.0	U	--	--	--	--	1.0	U	1.0	U									
Bromomethane	µg/L	SW8260				11.2	1.0	U	--	--	--	--	1.0	U	1.0	U									
Vinyl Chloride	µg/L	SW8260	2	0.2	0.0292	24	1.0	U	--	--	--	--	1.0	U	1.0	U									
Chloroethane	µg/L	SW8260					1.0	U	--	--	--	--	1.0	U	1.0	U									

Table F-1. Former Boise Cascade Mill Site 2008 Groundwater and Surface Water Data

PARAMETERS	Units	Analytical Method	Groundwater Regulatory Standards				MW-1 02/05/08	MW-5 02/07/08	MW-6 02/07/08	MW-7 02/06/08	MW-7D 02/06/08	MW-8 02/06/08	MW-9A 03/25/08	MW-10 02/06/08	EVP-W 02/28/08	EVP-WD 02/28/08	KILN1-W 02/28/08	KILN2-W 02/28/08	REC-W 02/28/08	STL-W 02/28/08	TRIP BLANK 02/05/08	TRIP BLANK 02/28/08	TRIP BLANK 03/25/08
			MCL	MTCA A	MTCA B carcin.	non-carc.																	
1,2-Dichloropropane	µg/L	SW8260			0.643		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
cis-1,3-Dichloropropene	µg/L	SW8260			0.24	240	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Trichloroethene	µg/L	SW8260	5	5	0.11	2.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Dibromochloromethane	µg/L	SW8260			0.521	160	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
1,1,2-Trichloroethane	µg/L	SW8260	5		0.768	32	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Benzene	µg/L	SW8260	5	5	0.795	32	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
trans-1,3-Dichloropropene	µg/L	SW8260			0.24	240	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
2-Chloroethylvinylether	µg/L	SW8260			--	--	--	--	--	--	--	5.0 U	--	--	--	--	--	--	--	--	--	5.0 U	
Bromoform	µg/L	SW8260	100	*TH	5.54	160	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
4-Methyl-2-Pentanone (MIBK)	µg/L	SW8260					5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U					
2-Hexanone	µg/L	SW8260					5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U					
Tetrachloroethene	µg/L	SW8260	5	5	0.081	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
1,1,2,2-Tetrachloroethane	µg/L	SW8260			0.219		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Toluene	µg/L	SW8260	1000	1000		640	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Chlorobenzene	µg/L	SW8260				160	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Ethylbenzene	µg/L	SW8260	700	700		800	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Styrene	µg/L	SW8260	100		1.46	1600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Trichlorofluoromethane	µg/L	SW8260				2400	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
m,p-Xylene	µg/L	SW8260	10000	*XY	1000	*XY	1600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
o-Xylene	µg/L	SW8260	10000	*XY	1000	*XY	1600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichlorobenzene	µg/L	SW8260				720	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
1,4-Dichlorobenzene	µg/L	SW8260			1.8		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Methyl Iodide	µg/L	SW8260					1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Acrylonitrile	µg/L	SW8260			0.081	8	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U					
Dibromomethane	µg/L	SW8260					1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
1,1,1,2-Tetrachloroethane	µg/L	SW8260			1.7	240	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
1,2-Dibromo-3-chloropropane	µg/L	SW8260			0.031		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U					
1,2,3-Trichloropropane	µg/L	SW8260			0.0063	48	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U					
trans-1,4-Dichloro-2-butene	µg/L	SW8260					5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U					
Ethylene Dibromide	µg/L	SW8260	0.05	0.01	0.000515		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Bromochloromethane	µg/L	SW8260					1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Vinyl Chloride	µg/L	SW8260 SIM	2	0.2	0.0292	24	0.020 U	0.020 U	0.020 U	0.060 U	0.063 U	0.034 U	--	0.020 U	--	--	--	--	--	--	--	--	
POLYCHLORINATED BIPHENYLS																							
Aroclor 1016	µg/L	SW8082	0.5	0.1	0.044		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Aroclor 1242	µg/L	SW8082	0.5	0.1	0.044		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Aroclor 1248	µg/L	SW8082	0.5	0.1	0.044		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Aroclor 1254	µg/L	SW8082	0.5	0.1	0.044		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Aroclor 1260	µg/L	SW8082	0.5	0.1	0.044		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Aroclor 1221	µg/L	SW8082	0.5	0.1	0.044		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Aroclor 1232	µg/L	SW8082	0.5	0.1	0.044		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
SEMIVOLATILE ORGANICS																							
Phenol	µg/L	SW8270D				4800	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Bis-(2-Chloroethyl) Ether	µg/L	SW8270D			0.04		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
2-Chlorophenol	µg/L	SW8270D				40	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
1,3-Dichlorobenzene	µg/L	SW8270D					1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
1,4-Dichlorobenzene	µg/L	SW8270D	75		1.8		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Benzyl Alcohol	µg/L	SW8270D				2400	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U					
1,2-Dichlorobenzene	µg/L	SW8270D	600			720	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
2-Methylphenol	µg/L	SW8270D					1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
2,2'-Oxybis(1-Chloropropane)	µg/L	SW8270D					1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
4-Methylphenol	µg/L	SW8270D					1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
N-Nitroso-Di-N-Propylamine	µg/L	SW8270D					5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U					
Hexachloroethane	µg/L	SW8270D			3.1	8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Nitrobenzene	µg/L	SW8270D				4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Isophorone	µg/L	SW8270D			46	1600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
2-Nitrophenol	µg/L	SW8270D					5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U					
2,4-Dimethylphenol	µg/L	SW8270D				160	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Benzoic Acid	µg/L	SW8270D				64000	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U					
bis(2-Chloroethoxy) Methane	µg/L	SW8270D					1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
2,4-Dichlorophenol	µg/L	SW8270D				24	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U					
1,2,4-Trichlorobenzene	µg/L	SW8270D				80	1.0 U	1.0 U	1.0														

Table F-1. Former Boise Cascade Mill Site 2008 Groundwater and Surface Water Data

PARAMETERS	Units	Analytical Method	Groundwater Regulatory Standards				MW-1	MW-5	MW-6	MW-7	MW-7D	MW-8	MW-9A	MW-10	EVP-W	EVP-WD	KILN1-W	KILN2-W	REC-W	STL-W	TRIP BLANK	TRIP BLANK	TRIP BLANK
			MCL	MTCA A	MTCA B carcin.	non-carc.	02/05/08	02/07/08	02/07/08	02/06/08	02/06/08	02/06/08	03/25/08	02/06/08	02/28/08	02/28/08	02/28/08	02/28/08	02/28/08	02/28/08	02/05/08	02/28/08	03/25/08
2,4-Dinitrophenol	µg/L	SW8270D				32	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	--	--
4-Nitrophenol	µg/L	SW8270D					5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	--	--	--
Dibenzofuran	µg/L	SW8270D				32	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
2,6-Dinitrotoluene	µg/L	SW8270D				16	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	--	--	--
2,4-Dinitrotoluene	µg/L	SW8270D				32	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	--	--	--
Diethylphthalate	µg/L	SW8270D				13000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
4-Chlorophenyl-phenylether	µg/L	SW8270D					1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
Fluorene	µg/L	SW8270D				640	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
4-Nitroaniline	µg/L	SW8270D					5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	--	--	--
4,6-Dinitro-2-Methylphenol	µg/L	SW8270D					10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	--	--
N-Nitrosodiphenylamine	µg/L	SW8270D			29000		1.0 U	1.0 U	1.0 U	1.6	1.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
4-Bromophenyl-phenylether	µg/L	SW8270D					1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
Hexachlorobenzene	µg/L	SW8270D	1		0.055	13	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
Pentachlorophenol	µg/L	SW8270D	1		0.73	480	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	--	--	--
Phenanthrene	µg/L	SW8270D					1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
Carbazole	µg/L	SW8270D			4.4		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
Anthracene	µg/L	SW8270D				4800	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
Di-n-Butylphthalate	µg/L	SW8270D					1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
Fluoranthene	µg/L	SW8270D				640	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
Pyrene	µg/L	SW8270D				480	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
Butylbenzylphthalate	µg/L	SW8270D				3200	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
3,3'-Dichlorobenzidine	µg/L	SW8270D			0.19		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	--	--	--
Benzo(a)anthracene	µg/L	SW8270D			0.012		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
bis(2-Ethylhexyl)phthalate	µg/L	SW8270D	6		6.3	320	1.0 U	1.0	1.0 U	1.0 U	1.0 U	1.5	1.0 U	35	--	--	--						
Chrysene	µg/L	SW8270D			0.012		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
Di-n-Octyl phthalate	µg/L	SW8270D				320	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
Benzo(b)fluoranthene	µg/L	SW8270D			0.012		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
Benzo(k)fluoranthene	µg/L	SW8270D			0.012		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
Benzo(a)pyrene	µg/L	SW8270D	0.2	0.1	0.012		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	SW8270D			0.012		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
Dibenz(a,h)anthracene	µg/L	SW8270D				32	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
Benzo(g,h,i)perylene	µg/L	SW8270D					1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--
1-Methylnaphthalene	µg/L	SW8270D					1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--

NOTES: J = Approximate Value
 ** = Secondary MCL
 *** = Chromium Standards based on Chromium VI
 *TH = Primary MCL for the sum of all trihalomethanes
 *XY = Primary MCL for the sum of all xylenes
Bold = For volatiles and semivolatiles only, marks a detection
 = Exceeds one or more MTCA and/or MCL standards

Table F-2. Former Boise Cascade Mill Site 2008 Soil Data

PARAMETERS	Units	Analytical Method	MTCA A	MTCA B carcin.	non-carc.	Background Range	B-2-13 03/03/08	B-3-8.5 03/03/08	B-3-14 03/03/08	B-4-13 03/04/08	B-4D-13 03/04/08	B-5-10.5 03/04/08	B-6-14 03/04/08	B-7-14 03/04/08	B-8-14 03/04/08	B-9-7 03/04/08	B-9-12 03/04/08	BOILER DRAIN 03/04/08	FLY ASH 03/03/08	GP-3-12 03/03/08	SS-1-2 03/03/08	SS-2-1.5 03/03/08
SEMIVOLATILE ORGANICS:																						
Phenol	µg/kg	SW8270D			48000000		66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	530	63 U	110	130	65 U	260 U	66 U
Bis-(2-Chloroethyl) Ether	µg/kg	SW8270D		910			66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
2-Chlorophenol	µg/kg	SW8270D			400000		66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
1,3-Dichlorobenzene	µg/kg	SW8270D					66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
1,4-Dichlorobenzene	µg/kg	SW8270D		42000			66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
Benzyl Alcohol	µg/kg	SW8270D			24000000		330 U	4,400 U	320 U	320 U	330 U	320 U	--	330 U	--	330 U	320 U	320 U	330 U	320 U	1,300 U	330 U
1,2-Dichlorobenzene	µg/kg	SW8270D			7200000		66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
2-Methylphenol	µg/kg	SW8270D					66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
2,2'-Oxybis(1-Chloropropane)	µg/kg	SW8270D					66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
4-Methylphenol	µg/kg	SW8270D					66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	3,000	70	65 U	66 U	65 U	260 U	66 U
N-Nitroso-Di-N-Propylamine	µg/kg	SW8270D		140			330 U	4,400 U	320 U	320 U	330 U	320 U	--	330 U	--	330 U	320 U	320 U	330 U	320 U	1,300 U	330 U
Hexachloroethane	µg/kg	SW8270D		71000	80000		66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
Nitrobenzene	µg/kg	SW8270D			40000		66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
Isophorone	µg/kg	SW8270D		1100000	16000000		66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
2-Nitrophenol	µg/kg	SW8270D					330 U	4,400 U	320 U	320 U	330 U	320 U	--	330 U	--	330 U	320 U	320 U	330 U	320 U	1,300 U	330 U
2,4-Dimethylphenol	µg/kg	SW8270D			1600000		66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
Benzoic Acid	µg/kg	SW8270D			320000000		660 U	8,700 U	630 U	650 U	650 U	640 U	--	660 U	--	660 U	630 U	650 U	660 U	650 U	2,600 U	660 U
bis(2-Chloroethoxy) Methane	µg/kg	SW8270D					66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
2,4-Dichlorophenol	µg/kg	SW8270D			240000		330 U	4,400 U	320 U	320 U	330 U	320 U	--	330 U	--	330 U	320 U	320 U	330 U	320 U	1,300 U	330 U
1,2,4-Trichlorobenzene	µg/kg	SW8270D			800000		66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
Naphthalene	µg/kg	SW8270D	5000		1600000		180	870 U	63 U	550 J	140 J	64 U	--	66 U	--	66 U	63 U	410 J	8,700	65 U	260 U	66 U
4-Chloroaniline	µg/kg	SW8270D			320000		330 U	4,400 U	320 U	320 U	330 U	320 U	--	330 U	--	330 U	320 U	320 U	330 U	320 U	1,300 U	330 U
Hexachlorobutadiene	µg/kg	SW8270D		13000	16000		66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
4-Chloro-3-methylphenol	µg/kg	SW8270D					330 U	4,400 U	320 U	320 U	330 U	320 U	--	330 U	--	330 U	320 U	320 U	330 U	320 U	1,300 U	330 U
2-Methylnaphthalene	µg/kg	SW8270D					66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	280	65 U	260 U	66 U
Hexachlorocyclopentadiene	µg/kg	SW8270D			480000		330 U	4,400 U	320 U	320 U	330 U	320 U	--	330 U	--	330 U	320 U	320 U	330 U	320 U	1,300 U	330 U
2,4,6-Trichlorophenol	µg/kg	SW8270D			91000		330 U	4,400 U	320 U	320 U	330 U	320 U	--	330 U	--	330 U	320 U	320 U	330 U	320 U	1,300 U	330 U
2,4,5-Trichlorophenol	µg/kg	SW8270D			8000000		330 U	4,400 U	320 U	320 U	330 U	320 U	--	330 U	--	330 U	320 U	320 U	330 U	320 U	1,300 U	330 U
2-Chloronaphthalene	µg/kg	SW8270D					66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
2-Nitroaniline	µg/kg	SW8270D					330 U	4,400 U	320 U	320 U	330 U	320 U	--	330 U	--	330 U	320 U	320 U	330 U	320 U	1,300 U	330 U
Dimethylphthalate	µg/kg	SW8270D			80000000		66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
Acenaphthylene	µg/kg	SW8270D					71	870 U	63 U	72	65 U	64 U	--	66 U	--	66 U	63 U	92	2,200	65 U	260 U	66 U
3-Nitroaniline	µg/kg	SW8270D					330 U	4,400 U	320 U	320 U	330 U	320 U	--	330 U	--	330 U	320 U	320 U	330 U	320 U	1,300 U	330 U
Acenaphthene	µg/kg	SW8270D			4800000		66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	78	65 U	260 U	66 U
2,4-Dinitrophenol	µg/kg	SW8270D			160000		660 U	8,700 U	630 U	650 U	650 U	640 U	--	660 U	--	660 U	630 U	650 U	660 U	650 U	2,600 U	660 U
4-Nitrophenol	µg/kg	SW8270D					330 U	4,400 U	320 U	320 U	330 U	320 U	--	330 U	--	330 U	320 U	320 U	330 U	320 U	1,300 U	330 U
Dibenzofuran	µg/kg	SW8270D			160000		66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	200	65 U	260 U	66 U
2,6-Dinitrotoluene	µg/kg	SW8270D			80000		330 U	4,400 U	320 U	320 U	330 U	320 U	--	330 U	--	330 U	320 U	320 U	330 U	320 U	1,300 U	330 U
2,4-Dinitrotoluene	µg/kg	SW8270D			160000		330 U	4,400 U	320 U	320 U	330 U	320 U	--	330 U	--	330 U	320 U	320 U	330 U	320 U	1,300 U	330 U
Diethylphthalate	µg/kg	SW8270D			64000000		66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
4-Chlorophenyl-phenylether	µg/kg	SW8270D					66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
Fluorene	µg/kg	SW8270D			3200000		66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
4-Nitroaniline	µg/kg	SW8270D					330 U	4,400 U	320 U	320 U	330 U	320 U	--	330 U	--	330 U	320 U	320 U	330 U	320 U	1,300 U	330 U
4,6-Dinitro-2-Methylphenol	µg/kg	SW8270D					660 U	8,700 U	630 U	650 U	650 U	640 U	--	660 U	--	660 U	630 U	650 U	660 U	650 U	2,600 U	660 U
N-Nitrosodiphenylamine	µg/kg	SW8270D			6.7		66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
4-Bromophenyl-phenylether	µg/kg	SW8270D					66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
Hexachlorobenzene	µg/kg	SW8270D		630	64000		66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
Pentachlorophenol	µg/kg	SW8270D		8300	2400000		330 U	4,400 U	320 U	320 U	330 U	320 U	--	330 U	--	330 U	320 U	320 U	330 U	320 U	1,300 U	330 U
Phenanthrene	µg/kg	SW8270D					160	870 U	63 U	160 J	66 J	64 U	--	66 U	--	66 U	63 U	130 J	430	65 U	260 U	66 U
Carbazole	µg/kg	SW8270D		50000			66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
Anthracene	µg/kg	SW8270D			24000000		66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
Di-n-Butylphthalate	µg/kg	SW8270D					66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
Fluoranthene	µg/kg	SW8270D			3200000		170	870 U	63 U	120	65 U	64 U	--	66 U	--	66 U	63 U	120	150	65 U	260 U	66 U
Pyrene	µg/kg	SW8270D			2400000		160	870 U	63 U	74	65 U	64 U	--	66 U	--	66 U	63 U	92	110	65 U	260 U	66 U
Butylbenzylphthalate	µg/kg	SW8270D			16000000		66 U	870 U	63 U	65 U	65 U	64 U	--	66 U	--	66 U	63 U	65 U	66 U	65 U	260 U	66 U
3,3'-Dichlorobenzidine	µg/kg	SW8270D		2200			330 U	4,400 U	320 U	320 U												

Table F-2. Former Boise Cascade Mill Site 2008 Soil Data

PARAMETERS	Units	Analytical Method	MTCA A	MTCA B carcin.	non-carc.	Background Range	SS-3-2	SS-4-1.5	SS-5-2	SS-6-1.5	SS-7-1.5	TP-8-2	TP-8-12.5	TP-9-1.5	TP-9-13	TP-10-8	TP-10-13	TP-11-4	TP-11-14	TP-12-13	TP-12D-13	TP-13-8
							03/05/08	03/05/08	03/06/08	03/06/08	03/06/08	02/27/08	02/27/08	02/27/08	02/27/08	02/27/08	02/27/08	02/27/08	02/27/08	02/27/08	02/27/08	02/27/08
TOTAL PETROLEUM HYDROCARBONS:																						
Diesel	mg/kg	NWTPH-Dx	2000				12	5.8	19	9.4	110	110 J	6.9 U	62 J	5.4 U	6,300 J	2,400 J	19 J	25 J	7,200 J	3,600 J	5.4 U
Motor Oil	mg/kg	NWTPH-Dx	2000				63	29	120	62	540	430 J	14 U	560 J	14 J	57,000 J	19,000 J	64 J	130 J	730 J	690 J	11 U
Gasoline	mg/kg	NWTPH-Gx	100				6.6 U	4.8 U	5.2 U	6.2	--	17	8.7 U	5.4 U	6.1 U	16	16	9.4 U	12 U	260	320	17
Benzene	µg/kg	SW8021BMod	30	18200	320000		17 U	12 U	13 U	12 U	--	32 U	27	14 U	15 U	26 U	15 U	29	29 U	23 U	21 U	14 U
Toluene	µg/kg	SW8021BMod	7000		6400000		17 U	12 U	190	12 U	--	190 J	22 U	14 U	15 U	430 J	66 J	230 J	29 J	64 J	21 U	14 U
Ethylbenzene	µg/kg	SW8021BMod	6000		8000000		17 U	12 U	13 U	12 U	--	32 U	22 U	14 U	15 U	26 U	15 U	24 U	29 U	23 U	67 J	14 U
m,p-Xylene	µg/kg	SW8021BMod	9000	*XY	16000000		33 U	24 U	26 U	25 U	--	63 U	44 U	27 U	30 U	51 U	30 U	47 U	59 U	47 U	43 U	28 U
o-Xylene	µg/kg	SW8021BMod	9000	*XY	16000000		17 U	12 U	13 U	12 U	--	32 U	22 U	14 U	15 U	26 U	15 U	24 U	29 U	23 U	60 J	14 U
METALS:																						
Arsenic	mg/kg	SW6010B-Total	20	0.67	24	0.89 - 28.6	10 U	6 U	6 U	--	--	7 U	20 U	10 U	10 U	7 U	10 U	--	--	--	--	10 U
Barium	mg/kg	SW6010B-Total			16000		163	102	87.6	--	--	147	142	167	71.0	64.3	81.3	--	--	--	--	53.9
Cadmium	mg/kg	SW6010B-Total	2		80	0.155 - 1.32	0.6 U	0.2 U	0.2 U	--	--	0.3 U	0.6 U	0.6 U	0.5 U	0.3 U	0.5 U	--	--	--	--	0.5 U
Chromium	mg/kg	SW6010B-Total	19		240	2.55 - 110.3	26	29.8	20.1	--	--	16.8	19	18	15	17.4	13	--	--	--	--	19
Lead	mg/kg	SW6010B-Total	250			2.17 - 17.1	21	5	15	--	--	32	6 U	12	5 U	12	16	13	4	25	22	5
Mercury	mg/kg	SW7471A-Total	2		24	0.00725 - 0.1165	0.05	0.05 U	0.06	--	--	0.15	0.07	0.07	0.05	0.06 U	0.04 U	--	--	--	--	0.05 U
Selenium	mg/kg	SW6010B-Total			400		10 U	6 U	6 U	--	--	7 U	20 U	10 U	10 U	7 U	10 U	--	--	--	--	10 U
Silver	mg/kg	SW6010B-Total			400		0.9 U	0.3 U	0.3 U	--	--	0.4 U	0.9 U	0.8 U	0.8 U	0.4 U	0.7 U	--	--	--	--	0.8 U
CONVENTIONALS:																						
pH	std. units	SW9045					7.60	9.89	7.51	--	8.12	6.72	6.80	--	--	6.53	6.35	--	--	--	--	--
Total Solids	percent	EPA 160.3					--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	percent	Plumb,1981					--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOLATILE ORGANICS:																						
Chloromethane	µg/kg	SW8260B		76900			--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
Bromomethane	µg/kg	SW8260B			110000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
Vinyl Chloride	µg/kg	SW8260B		667	240000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
Chloroethane	µg/kg	SW8260B					--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
Methylene Chloride	µg/kg	SW8260B	20	133000	4800000		--	--	5.2	--	--	--	--	1.9 U	2.4 U	170 B	2.2 U	--	--	--	--	2.0 U
Acetone	µg/kg	SW8260B			8000000		--	--	130	--	--	--	--	150	17	400 U	220	--	--	--	--	32
Carbon Disulfide	µg/kg	SW8260B			8000000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	3.4	--	--	--	--	1.0 U
1,1-Dichloroethene	µg/kg	SW8260B		1670	4000000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
1,1-Dichloroethane	µg/kg	SW8260B			8000000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
trans-1,2-Dichloroethene	µg/kg	SW8260B			1600000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
cis-1,2-Dichloroethene	µg/kg	SW8260B			800000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
Chloroform	µg/kg	SW8260B		160000			--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
1,2-Dichloroethane	µg/kg	SW8260B		11000	800000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
2-Butanone	µg/kg	SW8260B					--	--	4.7 U	--	--	--	--	15	6.1 U	400 U	20	--	--	--	--	4.9 U
1,1,1-Trichloroethane	µg/kg	SW8260B			72000000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
Carbon Tetrachloride	µg/kg	SW8260B		7690	56000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
Vinyl Acetate	µg/kg	SW8260B			8000000		--	--	4.7 U	--	--	--	--	4.8 U	6.1 U	400 U	5.5 U	--	--	--	--	4.9 U
Bromodichloromethane	µg/kg	SW8260B		16100	1600000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
1,2-Dichloropropane	µg/kg	SW8260B		14700	1600000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
cis-1,3-Dichloropropene	µg/kg	SW8260B		5560	2400000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
Trichloroethene	µg/kg	SW8260B	30	2500	24000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
Dibromochloromethane	µg/kg	SW8260B		11900	1600000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
1,1,2-Trichloroethane	µg/kg	SW8260B		17500	320000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
Benzene	µg/kg	SW8260B	30	18200	320000		--	--	0.9 U	--	--	--	--	4.2	1.2 U	80 U	2.6	--	--	--	--	1.0 U
trans-1,3-Dichloropropene	µg/kg	SW8260B		5560	2400000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
Bromoform	µg/kg	SW8260B		127000	16000000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
4-Methyl-2-Pentanone (MIBK)	µg/kg	SW8260B					--	--	4.7 U	--	--	--	--	4.8 U	6.1 U	400 U	5.5 U	--	--	--	--	4.9 U
2-Hexanone	µg/kg	SW8260B					--	--	4.7 U	--	--	--	--	4.8 U	6.1 U	400 U	5.5 U	--	--	--	--	4.9 U
Tetrachloroethene	µg/kg	SW8260B	50	1900	800000		--	--	9.6	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
1,1,2,2-Tetrachloroethane	µg/kg	SW8260B		5000			--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
Toluene	µg/kg	SW8260B	7000		6400000		--	--	11	--	--	--	--	2.4	1.2 U	500	2.9	--	--	--	--	1.0 U
Chlorobenzene	µg/kg	SW8260B			1600000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
Ethylbenzene	µg/kg	SW8260B	6000		8000000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	2.7	--	--	--	--	1.0 U
Styrene	µg/kg	SW8260B		33300	16000000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
Trichlorofluoromethane	µg/kg	SW8260B			24000000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
m,p-Xylene	µg/kg	SW8260B	9000	*XY	16000000		--	--	0.9 U	--	--	--	--	1.8	1.2 U	80 U	2.7	--	--	--	--	1.0 U
o-Xylene	µg/kg	SW8260B	9000	*XY	16000000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	2.5	--	--	--	--	1.0 U
1,2-Dichlorobenzene	µg/kg	SW8260B			7200000		--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
1,4-Dichlorobenzene	µg/kg	SW8260B		41700			--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	14	--	--	--	--	1.0 U
Methyl Iodide	µg/kg	SW8260B					--	--	0.9 U	--	--	--	--	1.0 U	1.2 U	80 U	1.1 U	--	--	--	--	1.0 U
Acrylonitrile	µg/kg	SW8260B		1900	80000		--	--	4.7 U	--	--	--	--	4.8 U	6.1 U	400 U	5.5 U	--	--	--	--	4.9 U
Dibromomethane	µg/kg	SW8260B					--	--	0.9 U													

Table F-2. Former Boise Cascade Mill Site 2008 Soil Data

PARAMETERS	Units	Analytical Method	MTCA A	MTCA B carcin.	non-carc.	Background Range	SS-3-2 03/05/08	SS-4-1.5 03/05/08	SS-5-2 03/06/08	SS-6-1.5 03/06/08	SS-7-1.5 03/06/08	TP-8-2 02/27/08	TP-8-12.5 02/27/08	TP-9-1.5 02/27/08	TP-9-13 02/27/08	TP-10-8 02/27/08	TP-10-13 02/27/08	TP-11-4 02/27/08	TP-11-14 02/27/08	TP-12-13 02/27/08	TP-12D-13 02/27/08	TP-13-8 02/27/08
SEMIVOLATILE ORGANICS:																						
Phenol	µg/kg	SW8270D			48000000		67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
Bis-(2-Chloroethyl) Ether	µg/kg	SW8270D		910			67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
2-Chlorophenol	µg/kg	SW8270D			400000		67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
1,3-Dichlorobenzene	µg/kg	SW8270D					67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
1,4-Dichlorobenzene	µg/kg	SW8270D		42000			67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
Benzyl Alcohol	µg/kg	SW8270D			24000000		330 U	320 U	330 U	320 U	--	330 U	330 U	950 U	320 U	10,000 U	1,400 U	990 U	970 U	5,400 U	1,700 U	950 U
1,2-Dichlorobenzene	µg/kg	SW8270D			7200000		67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
2-Methylphenol	µg/kg	SW8270D					67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
2,2'-Oxybis(1-Chloropropane)	µg/kg	SW8270D					67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
4-Methylphenol	µg/kg	SW8270D					67 U	64 U	66 U	64 U	--	120	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
N-Nitroso-Di-N-Propylamine	µg/kg	SW8270D		140			330 U	320 U	330 U	320 U	--	330 U	330 U	950 U	320 U	10,000 U	1,400 U	990 U	970 U	5,400 U	1,700 U	950 U
Hexachloroethane	µg/kg	SW8270D		71000	80000		67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
Nitrobenzene	µg/kg	SW8270D			40000		67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
Isophorone	µg/kg	SW8270D		1100000	16000000		67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
2-Nitrophenol	µg/kg	SW8270D					330 U	320 U	330 U	320 U	--	330 U	330 U	950 U	320 U	10,000 U	1,400 U	990 U	970 U	5,400 U	1,700 U	950 U
2,4-Dimethylphenol	µg/kg	SW8270D			1600000		67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
Benzoic Acid	µg/kg	SW8270D			320000000		670 U	640 U	660 U	640 U	--	660 U	660 U	1,900 U	630 U	20,000 U	2,800 U	2,000 U	1,900 U	11,000 U	3,500 U	1,900 U
bis(2-Chloroethoxy) Methane	µg/kg	SW8270D					67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
2,4-Dichlorophenol	µg/kg	SW8270D			240000		330 U	320 U	330 U	320 U	--	330 U	330 U	950 U	320 U	10,000 U	1,400 U	990 U	970 U	5,400 U	1,700 U	950 U
1,2,4-Trichlorobenzene	µg/kg	SW8270D			800000		67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
Naphthalene	µg/kg	SW8270D	5000		1600000		67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
4-Chloroaniline	µg/kg	SW8270D			320000		330 U	320 U	330 U	320 U	--	330 U	330 U	950 U	320 U	10,000 U	1,400 U	990 U	970 U	5,400 U	1,700 U	950 U
Hexachlorobutadiene	µg/kg	SW8270D		13000	16000		67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
4-Chloro-3-methylphenol	µg/kg	SW8270D					330 U	320 U	330 U	320 U	--	330 U	330 U	950 U	320 U	10,000 U	1,400 U	990 U	970 U	5,400 U	1,700 U	950 U
2-Methylnaphthalene	µg/kg	SW8270D					67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350	190 U
Hexachlorocyclopentadiene	µg/kg	SW8270D			480000		330 U	320 U	330 U	320 U	--	330 U	330 U	950 U	320 U	10,000 U	1,400 U	990 U	970 U	5,400 U	1,700 U	950 U
2,4,6-Trichlorophenol	µg/kg	SW8270D			91000		330 U	320 U	330 U	320 U	--	330 U	330 U	950 U	320 U	10,000 U	1,400 U	990 U	970 U	5,400 U	1,700 U	950 U
2,4,5-Trichlorophenol	µg/kg	SW8270D			8000000		330 U	320 U	330 U	320 U	--	330 U	330 U	950 U	320 U	10,000 U	1,400 U	990 U	970 U	5,400 U	1,700 U	950 U
2-Chloronaphthalene	µg/kg	SW8270D					67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
2-Nitroaniline	µg/kg	SW8270D					330 U	320 U	330 U	320 U	--	330 U	330 U	950 U	320 U	10,000 U	1,400 U	990 U	970 U	5,400 U	1,700 U	950 U
Dimethylphthalate	µg/kg	SW8270D			80000000		67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
Acenaphthylene	µg/kg	SW8270D					87	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
3-Nitroaniline	µg/kg	SW8270D					330 U	320 U	330 U	320 U	--	330 U	330 U	950 U	320 U	10,000 U	1,400 U	990 U	970 U	5,400 U	1,700 U	950 U
Acenaphthene	µg/kg	SW8270D			4800000		67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
2,4-Dinitrophenol	µg/kg	SW8270D			160000		670 U	640 U	660 U	640 U	--	660 U	660 U	1,900 U	630 U	20,000 U	2,800 U	2,000 U	1,900 U	11,000 U	3,500 U	1,900 U
4-Nitrophenol	µg/kg	SW8270D					330 U	320 U	330 U	320 U	--	330 U	330 U	950 U	320 U	10,000 U	1,400 U	990 U	970 U	5,400 U	1,700 U	950 U
Dibenzofuran	µg/kg	SW8270D			160000		67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
2,6-Dinitrotoluene	µg/kg	SW8270D			80000		330 U	320 U	330 U	320 U	--	330 U	330 U	950 U	320 U	10,000 U	1,400 U	990 U	970 U	5,400 U	1,700 U	950 U
2,4-Dinitrotoluene	µg/kg	SW8270D			160000		330 U	320 U	330 U	320 U	--	330 U	330 U	950 U	320 U	10,000 U	1,400 U	990 U	970 U	5,400 U	1,700 U	950 U
Diethylphthalate	µg/kg	SW8270D			64000000		67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
4-Chlorophenyl-phenylether	µg/kg	SW8270D					67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
Fluorene	µg/kg	SW8270D			3200000		67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,200 U	350 U	190 U
4-Nitroaniline	µg/kg	SW8270D					330 U	320 U	330 U	320 U	--	330 U	330 U	950 U	320 U	10,000 U	1,400 U	990 U	970 U	5,400 U	1,700 U	950 U
4,6-Dinitro-2-Methylphenol	µg/kg	SW8270D					670 U	640 U	660 U	640 U	--	660 U	660 U	1,900 U	630 U	20,000 U	2,800 U	2,000 U	1,900 U	11,000 U	3,500 U	1,900 U
N-Nitrosodiphenylamine	µg/kg	SW8270D		6.7			67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	2,300 Y	710 Y	190 U
4-Bromophenyl-phenylether	µg/kg	SW8270D					67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
Hexachlorobenzene	µg/kg	SW8270D		630	64000		67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
Pentachlorophenol	µg/kg	SW8270D		8300	2400000		330 U	320 U	330 U	320 U	--	330 U	330 U	950 U	320 U	10,000 U	1,400 U	990 U	970 U	5,400 U	1,700 U	950 U
Phenanthrene	µg/kg	SW8270D					67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	2,800 J	680 J	190 U
Carbazole	µg/kg	SW8270D		50000			67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
Anthracene	µg/kg	SW8270D			24000000		67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
Di-n-Butylphthalate	µg/kg	SW8270D					67 U	64 U	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U	200 U	190 U	1,100 U	350 U	190 U
Fluoranthene	µg/kg	SW8270D			3200000		240	100	66 U	64 U	--	66 U	66 U	190 U	63 U	2,000 U	280 U					

Table F-2. Former Boise Cascade Mill Site 2008 Soil Data

PARAMETERS	Units	Analytical Method	MTCA A	MTCA B carcin.	non-carc.	Background Range	TP-16-2 04/09/08	TP-17-1.5 04/09/08	TP-17-2.5 04/09/08	TP-17-3.5 04/09/08	TP-20-10 05/19/08	TP-21-13 05/19/08	TP-22-13 05/19/08	TP-23-7 05/19/08	TP-24-4 05/19/08	TP-25-12 05/19/08	TP-26-7 05/19/08	TRIP BLANK 03/03/08	TRIP BLANK 03/04/08	TRIP BLANK 03/05/08
SEMIVOLATILE ORGANICS:																				
Phenol	µg/kg	SW8270D			48000000		--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Bis-(2-Chloroethyl) Ether	µg/kg	SW8270D		910			--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
2-Chlorophenol	µg/kg	SW8270D			400000		--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/kg	SW8270D					--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/kg	SW8270D		42000			--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Benzyl Alcohol	µg/kg	SW8270D			24000000		--	--	--	--	--	320 U	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/kg	SW8270D			7200000		--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
2-Methylphenol	µg/kg	SW8270D					--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
2,2'-Oxybis(1-Chloropropane)	µg/kg	SW8270D					--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
4-Methylphenol	µg/kg	SW8270D					--	--	--	--	--	78	--	--	--	--	--	--	--	--
N-Nitroso-Di-N-Propylamine	µg/kg	SW8270D		140			--	--	--	--	--	320 U	--	--	--	--	--	--	--	--
Hexachloroethane	µg/kg	SW8270D		71000	80000		--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Nitrobenzene	µg/kg	SW8270D			40000		--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Isophorone	µg/kg	SW8270D		1100000	16000000		--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
2-Nitrophenol	µg/kg	SW8270D					--	--	--	--	--	320 U	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	µg/kg	SW8270D			1600000		--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Benzoic Acid	µg/kg	SW8270D			320000000		--	--	--	--	--	640 U	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy) Methane	µg/kg	SW8270D					--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	µg/kg	SW8270D			240000		--	--	--	--	--	320 U	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/kg	SW8270D			800000		--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Naphthalene	µg/kg	SW8270D	5000		1600000		--	--	--	--	--	150	--	--	--	--	--	--	--	--
4-Chloroaniline	µg/kg	SW8270D			320000		--	--	--	--	--	320 U	--	--	--	--	--	--	--	--
Hexachlorobutadiene	µg/kg	SW8270D		13000	16000		--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	µg/kg	SW8270D					--	--	--	--	--	320 U	--	--	--	--	--	--	--	--
2-Methylnaphthalene	µg/kg	SW8270D					--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	µg/kg	SW8270D			480000		--	--	--	--	--	320 U	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	µg/kg	SW8270D		91000			--	--	--	--	--	320 U	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	µg/kg	SW8270D			8000000		--	--	--	--	--	320 U	--	--	--	--	--	--	--	--
2-Chloronaphthalene	µg/kg	SW8270D					--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
2-Nitroaniline	µg/kg	SW8270D					--	--	--	--	--	320 U	--	--	--	--	--	--	--	--
Dimethylphthalate	µg/kg	SW8270D			80000000		--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Acenaphthylene	µg/kg	SW8270D					--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
3-Nitroaniline	µg/kg	SW8270D					--	--	--	--	--	320 U	--	--	--	--	--	--	--	--
Acenaphthene	µg/kg	SW8270D			4800000		--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	µg/kg	SW8270D			160000		--	--	--	--	--	640 U	--	--	--	--	--	--	--	--
4-Nitrophenol	µg/kg	SW8270D					--	--	--	--	--	320 U	--	--	--	--	--	--	--	--
Dibenzofuran	µg/kg	SW8270D			160000		--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	µg/kg	SW8270D			80000		--	--	--	--	--	320 U	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	µg/kg	SW8270D			160000		--	--	--	--	--	320 U	--	--	--	--	--	--	--	--
Diethylphthalate	µg/kg	SW8270D			64000000		--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
4-Chlorophenyl-phenylether	µg/kg	SW8270D					--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Fluorene	µg/kg	SW8270D			3200000		--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
4-Nitroaniline	µg/kg	SW8270D					--	--	--	--	--	320 U	--	--	--	--	--	--	--	--
4,6-Dinitro-2-Methylphenol	µg/kg	SW8270D					--	--	--	--	--	640 U	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	µg/kg	SW8270D		6.7			--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
4-Bromophenyl-phenylether	µg/kg	SW8270D					--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Hexachlorobenzene	µg/kg	SW8270D		630	64000		--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Pentachlorophenol	µg/kg	SW8270D		8300	2400000		--	--	--	--	--	320 U	--	--	--	--	--	--	--	--
Phenanthrene	µg/kg	SW8270D					--	--	--	--	--	82	--	--	--	--	--	--	--	--
Carbazole	µg/kg	SW8270D		50000			--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Anthracene	µg/kg	SW8270D			24000000		--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Di-n-Butylphthalate	µg/kg	SW8270D					--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Fluoranthene	µg/kg	SW8270D			3200000		--	--	--	--	--	97	--	--	--	--	--	--	--	--
Pyrene	µg/kg	SW8270D			2400000		--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Butylbenzylphthalate	µg/kg	SW8270D			16000000		--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	µg/kg	SW8270D		2200			--	--	--	--	--	320 U	--	--	--	--	--	--	--	--
Benzo(a)anthracene	µg/kg	SW8270D		140			--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	µg/kg	SW8270D		71000	1600000		--	--	--	--	--	76	--	--	--	--	--	--	--	--
Chrysene	µg/kg	SW8270D		140			--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Di-n-Octyl phthalate	µg/kg	SW8270D			1600000		--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	µg/kg	SW8270D		140			--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	µg/kg	SW8270D		140			--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Benzo(a)pyrene	µg/kg	SW8270D	100	140			--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/kg	SW8270D		140			--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/kg	SW8270D		140			--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	µg/kg	SW8270D					--	--	--	--	--	64 U	--	--	--	--	--	--	--	--
1-Methylnaphthalene	µg/kg	SW8270D					--	--	--	--	--	64 U	--	--	--	--	--	--	--	--

NOTES: J = Approximate Value
Y = Analyte may be present at or below reporting limit listed
** = Secondary MCL
*** = Chromium Standards based on Chromium VI
*TH = Primary MCL for the sum of all trihalomethanes
*XY = Primary MCL for the sum of all xylenes
Bold = For volatiles and semivolatiles only, marks a detection
= Exceeds one or more MTCA standards
= Exceeds background range for Yakima Basin
Background Ranges from Ecology's Publication #94-115 of Yakima Basin (October 1994)

APPENDIX G

Laboratory Data and Chain-of-Custody



Analytical Resources, Incorporated

Analytical Chemists and Consultants

21 February 2008

Annika Deutsch
Parametrix, Inc.
411 108th Avenue NE
Suite 1800
Bellevue, WA 98004-5571

**RE: Project: Yakima Resources (YR)
ARI Job No. MI25**

Dear Annika:

Please find enclosed the original Chain of Custody (COC) record and the final results for the samples from the project referenced above. Analytical Resources, Inc. received seven water samples and one trip blank on February 8, 2008. The samples were received intact and there were no discrepancies in the paperwork. The samples were analyzed for VOAs, SIM-vinyl chloride (per Kurt Easthouse), BETX/NWTPH-G, SVOAs, PCBs, NWTPH-Dx, total and dissolved metals and conventional parameters as requested. The results for total and dissolved iron and manganese were added per Kurt Easthouse.

The percent recoveries for select compounds were low following the SVOA analysis of the LCSD associated with these samples. It was suspected that this was due to the failure to add base booster to the LCSD. Since the percent recoveries for all compounds were acceptable for the LCS and the corresponding MS/MSD, no corrective actions were taken.

There were no further analytical complications noted.

As always, a copy of these reports and all raw data will remain on file at ARI. If you have questions, or require further information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
206-695-6210
<markh@arilabs.com>

Enclosures

cc: File MI25

MDH/mdh

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: MT25
 Turn-around Requested: standard
 ARI Client Company: Paramatrix (425)458-6200
 Phone:
 Client Contact: Annika Deutche
 Client Project Name: Yakima Resources (YR)
 Client Project #: R. Simmons

Page: 1 of 1
 Date: 2/8/08
 Ice Present? Y
 Cooler Temps: 1.2-2.9
 No. of Coolers: 5

Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)



Sample ID	Date	Time	Matrix	No. Containers
MW-1	2/5/08	1515	water	17
MW-8	2/6/08	0925		
MW-7	↓	1210		
MW-10	↓	1540		
MW-6	2/7/08	0905		
MW-5	↓	1030		
trip blanks	2/5/08	1515		5

Analysis Requested	TPH-G/BTEX	SVOCs (ABN)	PCBs	TPH-DX	PH	Cl ⁻ , SO ₄ ²⁻ , NO ₃ ⁻	Aik	Ammonia	TOC	TDS	RCA methods	RCA methods	RCA methods	Notes/Comments
	3	2	2	2	1	1	1	1	1	1	1	1	1	potassium + calcium
	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	dissolved metals
	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	field filtered
	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	w/ 0.45 um cantister filter
	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	Extra vol. collected at MW-10 for MS/MSD

Comments/Special Instructions

Relinquished by: Rose A. Simmons
 (Signature) NOID. Carl
 Printed Name: MAX D. ADAMS
 Company: Paramatrix
 Date & Time: 2/8/08 0935

Received by:
 (Signature)
 Printed Name:
 Company:
 Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

ARI Data Reporting Qualifiers

Effective 11/22/04

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- NR Spiked compound recovery is not reported due to chromatographic interference
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the limit
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260

Sample ID: MB-021208

Page 1 of 2

METHOD BLANK

Lab Sample ID: MB-021208

QC Report No: MI25-Parametrix, Inc.

LIMS ID: 08-2488

Project: Yakima Resources (YR)

Matrix: Water

Data Release Authorized:

Date Sampled: NA

Reported: 02/14/08

Date Received: NA

Instrument/Analyst: NT3/AAR

Sample Amount: 5.00 mL

Date Analyzed: 02/12/08 10:30

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 2 of 2

Sample ID: MB-021208
METHOD BLANK

Lab Sample ID: MB-021208

QC Report No: MI25-Parametrix, Inc.

LIMS ID: 08-2488

Project: Yakima Resources (YR)

Matrix: Water

Date Analyzed: 02/12/08 10:30

CAS Number	Analyte	RL	Result	Q
------------	---------	----	--------	---

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	101%
Bromofluorobenzene	98.4%
d4-1,2-Dichlorobenzene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 1 of 2Sample ID: MW-1
SAMPLE

Lab Sample ID: MI25A

QC Report No: MI25-Parametrix, Inc.

LIMS ID: 08-2485

Project: Yakima Resources (YR)

Matrix: Water

Data Release Authorized: 

Date Sampled: 02/05/08

Reported: 02/14/08

Date Received: 02/08/08

Instrument/Analyst: NT3/AAR

Sample Amount: 5.00 mL

Date Analyzed: 02/12/08 13:24

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 2 of 2

Sample ID: MW-1
SAMPLE

Lab Sample ID: MI25A
LIMS ID: 08-2485
Matrix: Water
Date Analyzed: 02/12/08 13:24

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)

CAS Number	Analyte	RL	Result	Q
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Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	101%
Bromofluorobenzene	99.1%
d4-1,2-Dichlorobenzene	99.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 2 of 2

Sample ID: MW-10
SAMPLE

Lab Sample ID: MI25E

QC Report No: MI25-Parametrix, Inc.

LIMS ID: 08-2489

Project: Yakima Resources (YR)

Matrix: Water

Date Analyzed: 02/12/08 14:59

CAS Number	Analyte	RL	Result	Q
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Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	100%
Bromofluorobenzene	98.2%
d4-1,2-Dichlorobenzene	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 1 of 2

Sample ID: MW-10
MATRIX SPIKE

Lab Sample ID: MI25E

QC Report No: MI25-Parametrix, Inc.

LIMS ID: 08-2489

Project: Yakima Resources (YR)

Matrix: Water

Data Release Authorized:

Date Sampled: 02/06/08

Reported: 02/14/08 

Date Received: 02/08/08

Instrument/Analyst: NT3/AAR

Sample Amount: 5.00 mL

Date Analyzed: 02/12/08 18:38

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	---	
74-83-9	Bromomethane	1.0	---	
75-01-4	Vinyl Chloride	1.0	---	
75-00-3	Chloroethane	1.0	---	
75-09-2	Methylene Chloride	2.0	---	
67-64-1	Acetone	5.0	---	
75-15-0	Carbon Disulfide	1.0	---	
75-35-4	1,1-Dichloroethene	1.0	---	
75-34-3	1,1-Dichloroethane	1.0	---	
156-60-5	trans-1,2-Dichloroethene	1.0	---	
156-59-2	cis-1,2-Dichloroethene	1.0	---	
67-66-3	Chloroform	1.0	---	
107-06-2	1,2-Dichloroethane	1.0	---	
78-93-3	2-Butanone	5.0	---	
71-55-6	1,1,1-Trichloroethane	1.0	---	
56-23-5	Carbon Tetrachloride	1.0	---	
108-05-4	Vinyl Acetate	5.0	---	
75-27-4	Bromodichloromethane	1.0	---	
78-87-5	1,2-Dichloropropane	1.0	---	
10061-01-5	cis-1,3-Dichloropropene	1.0	---	
79-01-6	Trichloroethene	1.0	---	
124-48-1	Dibromochloromethane	1.0	---	
79-00-5	1,1,2-Trichloroethane	1.0	---	
71-43-2	Benzene	1.0	---	
10061-02-6	trans-1,3-Dichloropropene	1.0	---	
75-25-2	Bromoform	1.0	---	
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	---	
591-78-6	2-Hexanone	5.0	---	
127-18-4	Tetrachloroethene	1.0	---	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	---	
108-88-3	Toluene	1.0	---	
108-90-7	Chlorobenzene	1.0	---	
100-41-4	Ethylbenzene	1.0	---	
100-42-5	Styrene	1.0	---	
75-69-4	Trichlorofluoromethane	1.0	---	
108-38-3	m,p-Xylene	1.0	---	
95-47-6	o-Xylene	1.0	---	
95-50-1	1,2-Dichlorobenzene	1.0	---	
106-46-7	1,4-Dichlorobenzene	1.0	---	
74-88-4	Methyl Iodide	1.0	---	
107-13-1	Acrylonitrile	5.0	---	
74-95-3	Dibromomethane	1.0	---	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	---	
96-12-8	1,2-Dibromo-3-chloropropane	5.0	---	
96-18-4	1,2,3-Trichloropropane	2.0	---	
110-57-6	trans-1,4-Dichloro-2-butene	5.0	---	
106-93-4	Ethylene Dibromide	1.0	---	
74-97-5	Bromochloromethane	1.0	---	

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 2 of 2

Sample ID: MW-10
MATRIX SPIKE

Lab Sample ID: MI25E
LIMS ID: 08-2489
Matrix: Water
Date Analyzed: 02/12/08 18:38

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)

CAS Number	Analyte	RL	Result	Q
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Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	101%
Bromofluorobenzene	99.5%
d4-1,2-Dichlorobenzene	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 1 of 2

Sample ID: MW-10
MATRIX SPIKE DUP

Lab Sample ID: MI25E

QC Report No: MI25-Parametrix, Inc.

LIMS ID: 08-2489

Project: Yakima Resources (YR)

Matrix: Water

Data Release Authorized: 

Date Sampled: 02/06/08

Reported: 02/14/08

Date Received: 02/08/08

Instrument/Analyst: NT3/AAR

Sample Amount: 5.00 mL

Date Analyzed: 02/12/08 19:03

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	---	
74-83-9	Bromomethane	1.0	---	
75-01-4	Vinyl Chloride	1.0	---	
75-00-3	Chloroethane	1.0	---	
75-09-2	Methylene Chloride	2.0	---	
67-64-1	Acetone	5.0	---	
75-15-0	Carbon Disulfide	1.0	---	
75-35-4	1,1-Dichloroethene	1.0	---	
75-34-3	1,1-Dichloroethane	1.0	---	
156-60-5	trans-1,2-Dichloroethene	1.0	---	
156-59-2	cis-1,2-Dichloroethene	1.0	---	
67-66-3	Chloroform	1.0	---	
107-06-2	1,2-Dichloroethane	1.0	---	
78-93-3	2-Butanone	5.0	---	
71-55-6	1,1,1-Trichloroethane	1.0	---	
56-23-5	Carbon Tetrachloride	1.0	---	
108-05-4	Vinyl Acetate	5.0	---	
75-27-4	Bromodichloromethane	1.0	---	
78-87-5	1,2-Dichloropropane	1.0	---	
10061-01-5	cis-1,3-Dichloropropene	1.0	---	
79-01-6	Trichloroethene	1.0	---	
124-48-1	Dibromochloromethane	1.0	---	
79-00-5	1,1,2-Trichloroethane	1.0	---	
71-43-2	Benzene	1.0	---	
10061-02-6	trans-1,3-Dichloropropene	1.0	---	
75-25-2	Bromoform	1.0	---	
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	---	
591-78-6	2-Hexanone	5.0	---	
127-18-4	Tetrachloroethene	1.0	---	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	---	
108-88-3	Toluene	1.0	---	
108-90-7	Chlorobenzene	1.0	---	
100-41-4	Ethylbenzene	1.0	---	
100-42-5	Styrene	1.0	---	
75-69-4	Trichlorofluoromethane	1.0	---	
108-38-3	m,p-Xylene	1.0	---	
95-47-6	o-Xylene	1.0	---	
95-50-1	1,2-Dichlorobenzene	1.0	---	
106-46-7	1,4-Dichlorobenzene	1.0	---	
74-88-4	Methyl Iodide	1.0	---	
107-13-1	Acrylonitrile	5.0	---	
74-95-3	Dibromomethane	1.0	---	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	---	
96-12-8	1,2-Dibromo-3-chloropropane	5.0	---	
96-18-4	1,2,3-Trichloropropane	2.0	---	
110-57-6	trans-1,4-Dichloro-2-butene	5.0	---	
106-93-4	Ethylene Dibromide	1.0	---	
74-97-5	Bromochloromethane	1.0	---	

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 2 of 2

Sample ID: MW-10
MATRIX SPIKE DUP

Lab Sample ID: MI25E

QC Report No: MI25-Parametrix, Inc.

LIMS ID: 08-2489

Project: Yakima Resources (YR)

Matrix: Water

Date Analyzed: 02/12/08 19:03

CAS Number	Analyte	RL	Result	Q
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Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	102%
Bromofluorobenzene	101%
d4-1,2-Dichlorobenzene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260

Sample ID: MW-10

Page 1 of 2

MATRIX SPIKE

Lab Sample ID: MI25E

QC Report No: MI25-Parametrix, Inc.

LIMS ID: 08-2489

Project: Yakima Resources (YR)

Matrix: Water

Data Release Authorized:

Date Sampled: 02/06/08

Reported: 02/14/08

Date Received: 02/08/08

Instrument/Analyst MS: NT3/AAR

Sample Amount MS: 5.00 mL

MSD: NT3/AAR

MSD: 5.00 mL

Date Analyzed MS: 02/12/08 18:38

Purge Volume MS: 5.0 mL

MSD: 02/12/08 19:03

MSD: 5.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Chloromethane	< 1.0 U	41.6	50.0	83.2%	35.6	50.0	71.2%	15.5%
Bromomethane	< 1.0 U	41.5	50.0	83.0%	36.9	50.0	73.8%	11.7%
Vinyl Chloride	< 1.0 U	47.3	50.0	94.6%	39.6	50.0	79.2%	17.7%
Chloroethane	< 1.0 U	47.9	50.0	95.8%	37.1	50.0	74.2%	25.4%
Methylene Chloride	< 2.0 U	45.6	50.0	91.2%	42.5	50.0	85.0%	7.0%
Acetone	< 5.0 U	265	250	106%	272	250	109%	2.6%
Carbon Disulfide	< 1.0 U	47.5	50.0	95.0%	39.1	50.0	78.2%	19.4%
1,1-Dichloroethene	< 1.0 U	44.5	50.0	89.0%	37.7	50.0	75.4%	16.5%
1,1-Dichloroethane	< 1.0 U	46.7	50.0	93.4%	42.0	50.0	84.0%	10.6%
trans-1,2-Dichloroethene	< 1.0 U	45.5	50.0	91.0%	39.7	50.0	79.4%	13.6%
cis-1,2-Dichloroethene	< 1.0 U	47.0	50.0	94.0%	42.4	50.0	84.8%	10.3%
Chloroform	< 1.0 U	45.3	50.0	90.6%	41.6	50.0	83.2%	8.5%
1,2-Dichloroethane	< 1.0 U	46.8	50.0	93.6%	45.1	50.0	90.2%	3.7%
2-Butanone	< 5.0 U	276	250	110%	279	250	112%	1.1%
1,1,1-Trichloroethane	< 1.0 U	45.0	50.0	90.0%	39.3	50.0	78.6%	13.5%
Carbon Tetrachloride	< 1.0 U	41.4	50.0	82.8%	35.2	50.0	70.4%	16.2%
Vinyl Acetate	< 5.0 U	47.1	50.0	94.2%	47.0	50.0	94.0%	0.2%
Bromodichloromethane	< 1.0 U	45.0	50.0	90.0%	41.8	50.0	83.6%	7.4%
1,2-Dichloropropane	< 1.0 U	47.1	50.0	94.2%	44.4	50.0	88.8%	5.9%
cis-1,3-Dichloropropene	< 1.0 U	45.9	50.0	91.8%	43.7	50.0	87.4%	4.9%
Trichloroethene	< 1.0 U	45.4	50.0	90.8%	39.9	50.0	79.8%	12.9%
Dibromochloromethane	< 1.0 U	45.5	50.0	91.0%	43.2	50.0	86.4%	5.2%
1,1,2-Trichloroethane	< 1.0 U	47.1	50.0	94.2%	45.5	50.0	91.0%	3.5%
Benzene	< 1.0 U	46.4	50.0	92.8%	41.6	50.0	83.2%	10.9%
trans-1,3-Dichloropropene	< 1.0 U	46.8	50.0	93.6%	45.0	50.0	90.0%	3.9%
Bromoform	< 1.0 U	44.2	50.0	88.4%	42.0	50.0	84.0%	5.1%
4-Methyl-2-Pentanone (MIBK)	< 5.0 U	276	250	110%	284	250	114%	2.9%
2-Hexanone	< 5.0 U	272	250	109%	286	250	114%	5.0%
Tetrachloroethene	< 1.0 U	42.4	50.0	84.8%	37.2	50.0	74.4%	13.1%
1,1,2,2-Tetrachloroethane	< 1.0 U	49.2	50.0	98.4%	49.2	50.0	98.4%	0.0%
Toluene	< 1.0 U	45.3	50.0	90.6%	40.9	50.0	81.8%	10.2%
Chlorobenzene	< 1.0 U	45.2	50.0	90.4%	41.3	50.0	82.6%	9.0%
Ethylbenzene	< 1.0 U	46.3	50.0	92.6%	41.9	50.0	83.8%	10.0%
Styrene	< 1.0 U	47.9	50.0	95.8%	45.0	50.0	90.0%	6.2%
Trichlorofluoromethane	< 1.0 U	38.5	50.0	77.0%	25.2	50.0	50.4%	41.8%
m,p-Xylene	< 1.0 U	93.0	100	93.0%	83.5	100	83.5%	10.8%
o-Xylene	< 1.0 U	47.6	50.0	95.2%	43.6	50.0	87.2%	8.8%
1,2-Dichlorobenzene	< 1.0 U	44.6	50.0	89.2%	42.4	50.0	84.8%	5.1%
1,4-Dichlorobenzene	< 1.0 U	44.2	50.0	88.4%	41.4	50.0	82.8%	6.5%
Methyl Iodide	< 1.0 U	36.2	50.0	72.4%	34.3	50.0	68.6%	5.4%
Acrylonitrile	< 5.0 U	57.2	50.0	114%	58.4	50.0	117%	2.1%
Dibromomethane	< 1.0 U	46.3	50.0	92.6%	44.5	50.0	89.0%	4.0%
1,1,1,2-Tetrachloroethane	< 1.0 U	45.0	50.0	90.0%	41.6	50.0	83.2%	7.9%
1,2-Dibromo-3-chloropropane	< 5.0 U	54.1	50.0	108%	54.3	50.0	109%	0.4%
1,2,3-Trichloropropane	< 2.0 U	48.9	50.0	97.8%	49.0	50.0	98.0%	0.2%
trans-1,4-Dichloro-2-butene	< 5.0 U	48.6	50.0	97.2%	49.3	50.0	98.6%	1.4%
Ethylene Dibromide	< 1.0 U	47.6	50.0	95.2%	46.8	50.0	93.6%	1.7%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 2 of 2

Sample ID: MW-10
MATRIX SPIKE

Lab Sample ID: MI25E
LIMS ID: 08-2489
Matrix: Water

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Bromochloromethane	< 1.0 U	47.7	50.0	95.4%	44.6	50.0	89.2%	6.7%

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 1 of 2

Sample ID: MW-6
SAMPLE

Lab Sample ID: MI25F

QC Report No: MI25-Parametrix, Inc.

LIMS ID: 08-2490

Project: Yakima Resources (YR)

Matrix: Water

Data Release Authorized: 

Date Sampled: 02/07/08

Reported: 02/14/08

Date Received: 02/08/08

Instrument/Analyst: NT3/AAR

Sample Amount: 5.00 mL

Date Analyzed: 02/12/08 15:24

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 2 of 2

Sample ID: MW-6
SAMPLE

Lab Sample ID: MI25F
LIMS ID: 08-2490
Matrix: Water
Date Analyzed: 02/12/08 15:24

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)

CAS Number	Analyte	RL	Result	Q
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Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	101%
Bromofluorobenzene	98.8%
d4-1,2-Dichlorobenzene	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 1 of 2

Sample ID: MW-5
SAMPLE

Lab Sample ID: MI25G

QC Report No: MI25-Parametrix, Inc.

LIMS ID: 08-2491

Project: Yakima Resources (YR)

Matrix: Water

Data Release Authorized: 

Date Sampled: 02/07/08

Reported: 02/14/08

Date Received: 02/08/08

Instrument/Analyst: NT3/AAR

Sample Amount: 5.00 mL

Date Analyzed: 02/12/08 15:48

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 2 of 2

Sample ID: MW-5
SAMPLE

Lab Sample ID: MI25G
LIMS ID: 08-2491
Matrix: Water
Date Analyzed: 02/12/08 15:48

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)

CAS Number	Analyte	RL	Result	Q
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Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	100%
Bromofluorobenzene	97.9%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 1 of 2Sample ID: TRIP BLANK
SAMPLE

Lab Sample ID: MI25H

LIMS ID: 08-2492

Matrix: Water

Data Release Authorized: 

Reported: 02/14/08

QC Report No: MI25-Parametrix, Inc.

Project: Yakima Resources (YR)

Date Sampled: 02/05/08

Date Received: 02/08/08

Instrument/Analyst: NT3/AAR

Date Analyzed: 02/12/08 10:55

Sample Amount: 5.00 mL

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 2 of 2

Sample ID: TRIP BLANK
SAMPLE

Lab Sample ID: MI25H

QC Report No: MI25-Parametrix, Inc.

LIMS ID: 08-2492

Project: Yakima Resources (YR)

Matrix: Water

Date Analyzed: 02/12/08 10:55

CAS Number	Analyte	RL	Result	Q
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Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	100%
Bromofluorobenzene	99.0%
d4-1,2-Dichlorobenzene	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260

Sample ID: LCS-021208

Page 1 of 2

LAB CONTROL SAMPLE

Lab Sample ID: LCS-021208

QC Report No: MI25-Parametrix, Inc.

LIMS ID: 08-2488

Project: Yakima Resources (YR)

Matrix: Water

Data Release Authorized:

Date Sampled: NA

Reported: 02/14/08

Date Received: NA

Instrument/Analyst LCS: NT3/AAR

Sample Amount LCS: 5.00 mL

LCSD: NT3/AAR

LCSD: 5.00 mL

Date Analyzed LCS: 02/12/08 09:11

Purge Volume LCS: 5.0 mL

LCSD: 02/12/08 09:36

LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	43.8	50.0	87.6%	43.9	50.0	87.8%	0.2%
Bromomethane	46.2	50.0	92.4%	50.0	50.0	100%	7.9%
Vinyl Chloride	51.7	50.0	103%	52.6	50.0	105%	1.7%
Chloroethane	50.8	50.0	102%	50.8	50.0	102%	0.0%
Methylene Chloride	51.2	50.0	102%	53.5	50.0	107%	4.4%
Acetone	268	250	107%	275	250	110%	2.6%
Carbon Disulfide	52.0	50.0	104%	54.2	50.0	108%	4.1%
1,1-Dichloroethene	50.5	50.0	101%	52.5	50.0	105%	3.9%
1,1-Dichloroethane	53.4	50.0	107%	55.9	50.0	112%	4.6%
trans-1,2-Dichloroethene	51.4	50.0	103%	53.7	50.0	107%	4.4%
cis-1,2-Dichloroethene	52.3	50.0	105%	55.2	50.0	110%	5.4%
Chloroform	50.8	50.0	102%	53.7	50.0	107%	5.6%
1,2-Dichloroethane	51.1	50.0	102%	53.3	50.0	107%	4.2%
2-Butanone	285	250	114%	295	250	118%	3.4%
1,1,1-Trichloroethane	52.1	50.0	104%	55.1	50.0	110%	5.6%
Carbon Tetrachloride	46.9	50.0	93.8%	49.6	50.0	99.2%	5.6%
Vinyl Acetate	56.9	50.0	114%	60.2	50.0	120%	5.6%
Bromodichloromethane	49.4	50.0	98.8%	52.1	50.0	104%	5.3%
1,2-Dichloropropane	52.8	50.0	106%	56.1	50.0	112%	6.1%
cis-1,3-Dichloropropene	54.8	50.0	110%	58.2	50.0	116%	6.0%
Trichloroethene	51.2	50.0	102%	53.4	50.0	107%	4.2%
Dibromochloromethane	49.4	50.0	98.8%	51.9	50.0	104%	4.9%
1,1,2-Trichloroethane	50.0	50.0	100%	52.2	50.0	104%	4.3%
Benzene	51.7	50.0	103%	54.2	50.0	108%	4.7%
trans-1,3-Dichloropropene	53.4	50.0	107%	57.8	50.0	116%	7.9%
Bromoform	46.7	50.0	93.4%	48.8	50.0	97.6%	4.4%
4-Methyl-2-Pentanone (MIBK)	288	250	115%	300	250	120%	4.1%
2-Hexanone	283	250	113%	298	250	119%	5.2%
Tetrachloroethene	48.2	50.0	96.4%	50.3	50.0	101%	4.3%
1,1,2,2-Tetrachloroethane	52.3	50.0	105%	55.1	50.0	110%	5.2%
Toluene	50.2	50.0	100%	53.0	50.0	106%	5.4%
Chlorobenzene	50.0	50.0	100%	52.4	50.0	105%	4.7%
Ethylbenzene	52.2	50.0	104%	55.0	50.0	110%	5.2%
Styrene	54.0	50.0	108%	57.3	50.0	115%	5.9%
Trichlorofluoromethane	34.5	50.0	69.0%	36.6	50.0	73.2%	5.9%
m,p-Xylene	104	100	104%	110	100	110%	5.6%
o-Xylene	52.8	50.0	106%	55.8	50.0	112%	5.5%
1,2-Dichlorobenzene	49.8	50.0	99.6%	52.7	50.0	105%	5.7%
1,4-Dichlorobenzene	49.8	50.0	99.6%	52.3	50.0	105%	4.9%
Methyl Iodide	44.2	50.0	88.4%	48.4	50.0	96.8%	9.1%
Acrylonitrile	59.8	50.0	120%	62.6	50.0	125%	4.6%
Dibromomethane	49.6	50.0	99.2%	52.5	50.0	105%	5.7%
1,1,1,2-Tetrachloroethane	49.6	50.0	99.2%	52.1	50.0	104%	4.9%
1,2-Dibromo-3-chloropropane	57.6	50.0	115%	59.3	50.0	119%	2.9%
1,2,3-Trichloropropane	51.5	50.0	103%	54.0	50.0	108%	4.7%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 2 of 2

Sample ID: LCS-021208
LAB CONTROL SAMPLE

Lab Sample ID: LCS-021208
LIMS ID: 08-2488
Matrix: Water

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
trans-1,4-Dichloro-2-butene	54.6	50.0	109%	57.4	50.0	115%	5.0%
Ethylene Dibromide	51.3	50.0	103%	53.6	50.0	107%	4.4%
Bromochloromethane	51.5	50.0	103%	54.4	50.0	109%	5.5%

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	105%	105%
d8-Toluene	101%	101%
Bromofluorobenzene	101%	101%
d4-1,2-Dichlorobenzene	102%	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260 SIM Sample ID: MB-021908
Page 1 of 1 METHOD BLANK

Lab Sample ID: MB-021908
LIMS ID: 08-2486
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 02/19/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT7/JZ
Date Analyzed: 02/19/08 13:30

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	Vinyl Chloride	0.020	< 0.020	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 97.5%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260 SIM Sample ID: MW-1
Page 1 of 1 SAMPLE

Lab Sample ID: MI25A

QC Report No: MI25-Parametrix, Inc.

LIMS ID: 08-2485

Project: Yakima Resources (YR)

Matrix: Water

Data Release Authorized: 

Date Sampled: 02/05/08

Reported: 02/19/08

Date Received: 02/08/08

Instrument/Analyst: NT7/JZ

Sample Amount: 10.0 mL

Date Analyzed: 02/19/08 13:55

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	Vinyl Chloride	0.020	< 0.020	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 104%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260 SIM Sample ID: MW-10
Page 1 of 1 SAMPLE

Lab Sample ID: MI25E

QC Report No: MI25-Parametrix, Inc.

LIMS ID: 08-2489

Project: Yakima Resources (YR)

Matrix: Water

Data Release Authorized:

Date Sampled: 02/06/08

Reported: 02/19/08

Date Received: 02/08/08

Instrument/Analyst: NT7/JZ

Sample Amount: 10.0 mL

Date Analyzed: 02/19/08 15:35

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	Vinyl Chloride	0.020	< 0.020	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260 SIM Sample ID: MW-6
Page 1 of 1 SAMPLE

Lab Sample ID: MI25F QC Report No: MI25-Parametrix, Inc.
LIMS ID: 08-2490 Project: Yakima Resources (YR)
Matrix: Water
Data Release Authorized: *AB* Date Sampled: 02/07/08
Reported: 02/19/08 Date Received: 02/08/08
Instrument/Analyst: NT7/JZ Sample Amount: 10.0 mL
Date Analyzed: 02/19/08 16:00 Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	Vinyl Chloride	0.020	< 0.020	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane 103%



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260 SIM Sample ID: MW-5
Page 1 of 1 SAMPLE

Lab Sample ID: MI25G QC Report No: MI25-Parametrix, Inc.
LIMS ID: 08-2491 Project: Yakima Resources (YR)
Matrix: Water
Data Release Authorized: *[Signature]* Date Sampled: 02/07/08
Reported: 02/19/08 Date Received: 02/08/08

Instrument/Analyst: NT7/JZ Sample Amount: 10.0 mL
Date Analyzed: 02/19/08 16:25 Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
75-01-4	Vinyl Chloride	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%
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ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MB-021208
 METHOD BLANK

Lab Sample ID: MB-021208
 LIMS ID: 08-2485
 Matrix: Water
 Data Release Authorized:
 Reported: 02/13/08

QC Report No: MI25-Parametrix, Inc.
 Project: Yakima Resources (YR)
 Event: NA
 Date Sampled: NA
 Date Received: NA

Date Analyzed: 02/12/08 11:48
 Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons 0.25 < 0.25 U GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	92.7%
Bromobenzene	98.1%

Gasoline Surrogate Recovery

Trifluorotoluene	95.2%
Bromobenzene	95.8%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-1
 SAMPLE

Lab Sample ID: MI25A
 LIMS ID: 08-2485
 Matrix: Water
 Data Release Authorized:
 Reported: 02/13/08

QC Report No: MI25-Parametrix, Inc.
 Project: Yakima Resources (YR)
 Event: NA
 Date Sampled: 02/05/08
 Date Received: 02/08/08

Date Analyzed: 02/12/08 14:57
 Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons 0.25 < 0.25 U GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	92.8%
Bromobenzene	95.4%

Gasoline Surrogate Recovery

Trifluorotoluene	95.1%
Bromobenzene	96.2%

BETX values reported in $\mu\text{g/L}$ (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-10
 SAMPLE

Lab Sample ID: MI25E
 LIMS ID: 08-2489
 Matrix: Water
 Data Release Authorized: 
 Reported: 02/13/08

QC Report No: MI25-Parametrix, Inc.
 Project: Yakima Resources (YR)
 Event: NA
 Date Sampled: 02/06/08
 Date Received: 02/08/08

Date Analyzed: 02/12/08 18:21
 Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons 0.25 < 0.25 U GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	93.9%
Bromobenzene	95.7%

Gasoline Surrogate Recovery

Trifluorotoluene	96.5%
Bromobenzene	97.2%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: MW-10
MATRIX SPIKE

Lab Sample ID: MI25E
LIMS ID: 08-2489
Matrix: Water
Data Release Authorized: *AS*
Reported: 02/13/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
Event: NA
Date Sampled: 02/06/08
Date Received: 02/08/08

Date Analyzed MS: 02/12/08 18:50
MSD: 02/12/08 19:19
Instrument/Analyst MS: PID2/PKC
MSD: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor MS: 1.0
MSD: 1.0

Analyte	Sample	Spike		MS		Spike		MSD		RPD
		MS	Added-MS	Recovery	MSD	Added-MSD	Recovery			
Gasoline Range Hydrocarbons < 0.25 U		1.02	1.00	102%	0.98	1.00	98.0%		4.0%	

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	MS	MSD
Trifluorotoluene	94.0%	94.9%
Bromobenzene	95.5%	96.2%

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 Page 1 of 1

Sample ID: MW-10
 MATRIX SPIKE

Lab Sample ID: MI25E
 LIMS ID: 08-2489
 Matrix: Water
 Data Release Authorized: 
 Reported: 02/13/08

QC Report No: MI25-Parametrix, Inc.
 Project: Yakima Resources (YR)
 Event: NA
 Date Sampled: 02/06/08
 Date Received: 02/08/08

Date Analyzed MS: 02/12/08 18:50
 MSD: 02/12/08 19:19
 Instrument/Analyst MS: PID2/PKC
 MSD: PID2/PKC

Purge Volume: 5.0 mL
 Dilution Factor MS: 1.0
 MSD: 1.0

Analyte	Sample	Spike		MS		Spike		MSD		RPD
		MS	Added-MS	Recovery	MSD	Added-MSD	Recovery			
Benzene	< 1.00 U	6.99	7.00	99.9%	6.89	7.00	98.4%	1.4%		
Toluene	< 1.00 U	69.2	62.0	112%	69.0	62.0	111%	0.3%		
Ethylbenzene	< 1.00 U	10.1	11.9	84.9%	9.90	11.9	83.2%	2.0%		
m,p-Xylene	< 1.00 U	43.7	44.6	98.0%	43.2	44.6	96.9%	1.2%		
o-Xylene	< 1.00 U	15.5	15.8	98.1%	15.3	15.8	96.8%	1.3%		

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	MS	MSD
Trifluorotoluene	91.6%	93.2%
Bromobenzene	95.7%	96.0%

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-6
 SAMPLE

Lab Sample ID: MI25F
 LIMS ID: 08-2490
 Matrix: Water
 Data Release Authorized: 
 Reported: 02/13/08

QC Report No: MI25-Parametrix, Inc.
 Project: Yakima Resources (YR)
 Event: NA
 Date Sampled: 02/07/08
 Date Received: 02/08/08

Date Analyzed: 02/12/08 19:48
 Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons 0.25 < 0.25 U GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	91.8%
Bromobenzene	94.5%

Gasoline Surrogate Recovery

Trifluorotoluene	96.1%
Bromobenzene	97.8%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW-5

SAMPLE

Lab Sample ID: MI25G

LIMS ID: 08-2491

Matrix: Water

Data Release Authorized: 

Reported: 02/13/08

QC Report No: MI25-Parametrix, Inc.

Project: Yakima Resources (YR)

Event: NA

Date Sampled: 02/07/08

Date Received: 02/08/08

Date Analyzed: 02/12/08 20:17

Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	93.3%
Bromobenzene	94.5%

Gasoline Surrogate Recovery

Trifluorotoluene	96.3%
Bromobenzene	97.3%

BETX values reported in $\mu\text{g/L}$ (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: TRIP BLANK
 SAMPLE

Lab Sample ID: MI25H
 LIMS ID: 08-2492
 Matrix: Water
 Data Release Authorized: 
 Reported: 02/13/08

QC Report No: MI25-Parametrix, Inc.
 Project: Yakima Resources (YR)
 Event: NA
 Date Sampled: 02/05/08
 Date Received: 02/08/08

Date Analyzed: 02/12/08 13:01
 Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	100%
Bromobenzene	98.6%

Gasoline Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	96.2%

BETX values reported in $\mu\text{g/L}$ (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: LCS-021208
LAB CONTROL SAMPLE

Lab Sample ID: LCS-021208
LIMS ID: 08-2485
Matrix: Water
Data Release Authorized: 
Reported: 02/13/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
Event: NA
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 02/12/08 10:50
LCSD: 02/12/08 11:19
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC
Purge Volume: 5.0 mL
Dilution Factor LCS: 1.0
LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	1.08	1.00	108%	1.00	1.00	100%	7.7%

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	100%	98.4%
Bromobenzene	99.1%	98.2%

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 Page 1 of 1

Sample ID: LCS-021208
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-021208
 LIMS ID: 08-2485
 Matrix: Water
 Data Release Authorized: 
 Reported: 02/13/08

QC Report No: MI25-Parametrix, Inc.
 Project: Yakima Resources (YR)
 Event: NA
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 02/12/08 10:50
 LCSD: 02/12/08 11:19
 Instrument/Analyst LCS: PID2/PKC
 LCSD: PID2/PKC

Purge Volume: 5.0 mL
 Dilution Factor LCS: 1.0
 LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	6.66	7.00	95.1%	6.45	7.00	92.1%	3.2%
Toluene	68.3	62.0	110%	65.2	62.0	105%	4.6%
Ethylbenzene	10.3	11.9	86.6%	9.69	11.9	81.4%	6.1%
m,p-Xylene	43.3	44.6	97.1%	41.3	44.6	92.6%	4.7%
o-Xylene	15.3	15.8	96.8%	14.7	15.8	93.0%	4.0%

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	98.8%	97.4%
Bromobenzene	104%	101%

VC
2/12/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/0212-1.b/0212a006.d
Data file 2: /chem3/pid2.i/0212-2.b/0212a006.d
Method: /chem3/pid2.i/0212-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JAN-2008
BETX Ical Date: 28-JAN-2008

ARI ID: MB021208S1
Client ID:
Injection Date: 12-FEB-2008 11:48
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
9.196	-0.001	3908	62599	95.2	TFT(Surr)
16.492	-0.002	3160	27423	95.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	953	0.002
8015B (2MP-TMB)	920	0.001
AKGas (nC6-nC10)	919	0.001
NWGas (Tol-Nap)	953	0.001

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
9.217	-0.001	12294	92.7	TFT(Surr)
16.503	-0.004	26748	98.1	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

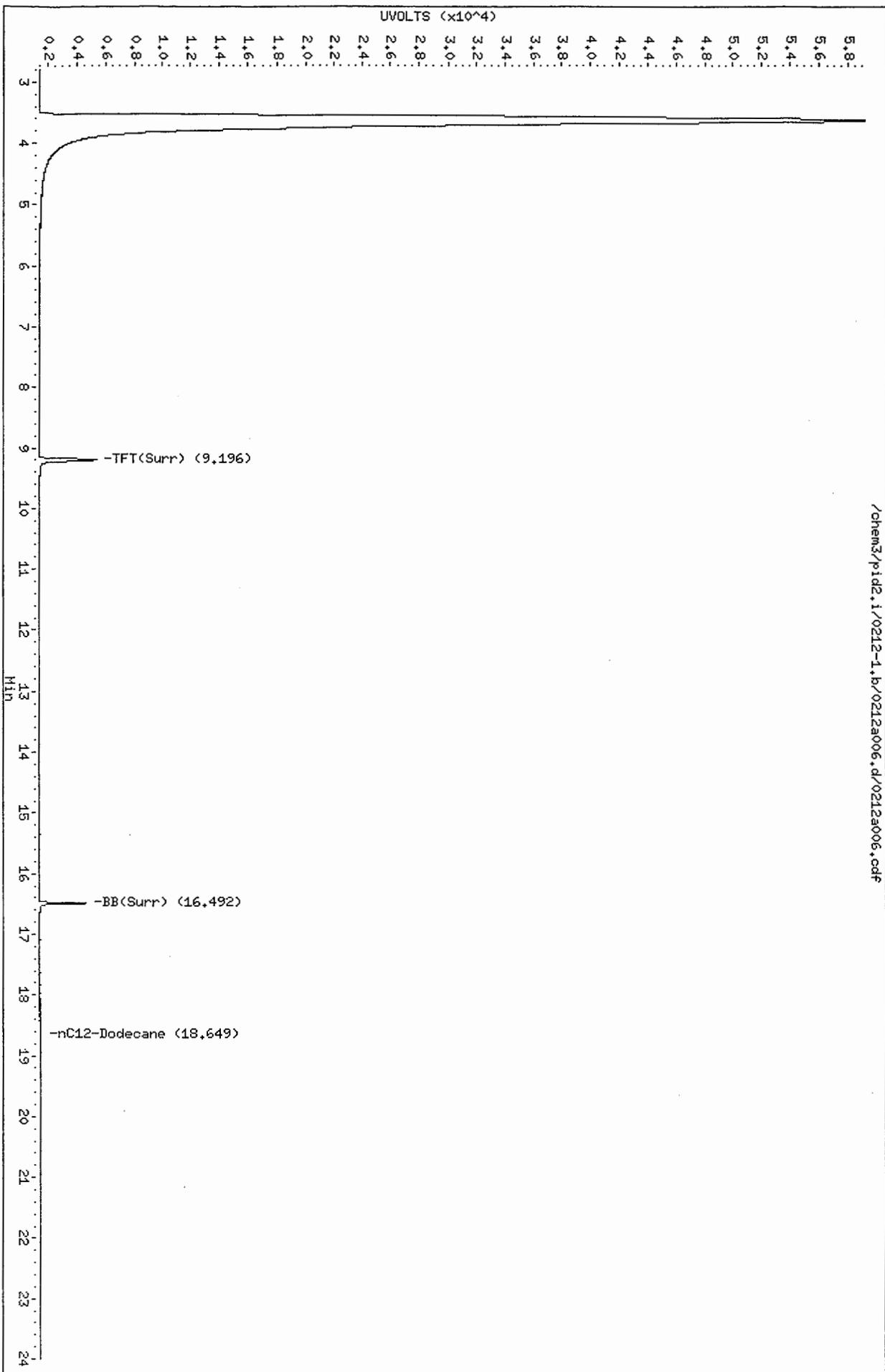
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.1/0212-1.b/0212a006.d
Date: 12-FEB-2008 11:48
Client ID:
Sample Info: MB021208S1

Column phase: RTX 502-2 FID

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Instrument: pid2.i
Operator: PC
Column diameter: 0.18



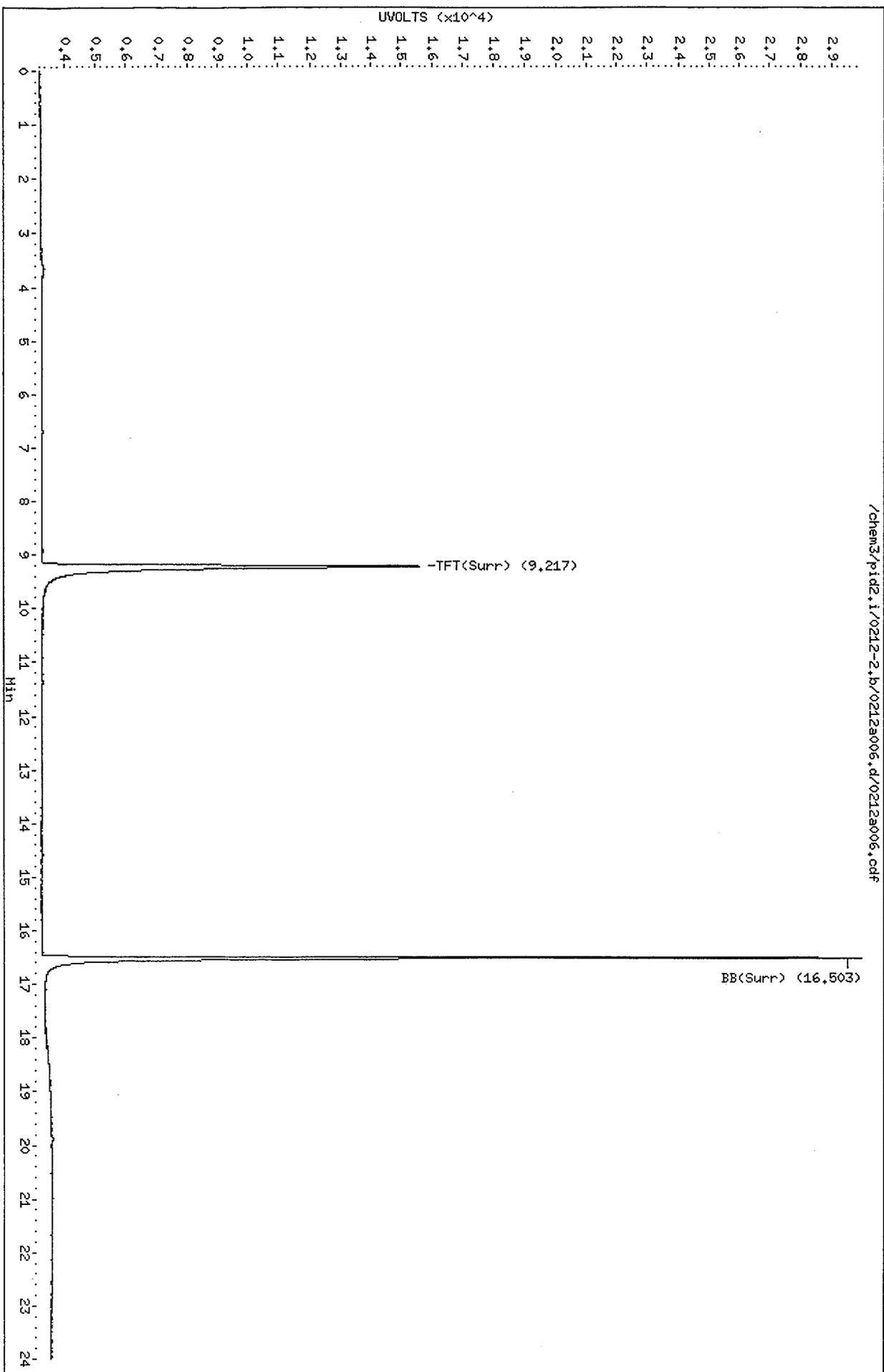
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Date: 12-FEB-2008 11:48
Client ID:
Sample Info: HB021208S1

Instrument: pid2.i

Page 1

Column phaset RTx 502-2 PID

Operator: PC
Column diameter: 0.18



PK
2/12/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/0212-1.b/0212a004.d
Data file 2: /chem3/pid2.i/0212-2.b/0212a004.d
Method: /chem3/pid2.i/0212-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JAN-2008
BETX Ical Date: 28-JAN-2008

ARI ID: LCS021208S1
Client ID:
Injection Date: 12-FEB-2008 10:50
Matrix: WATER
Dilution Factor: 1.000

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
9.200	0.002	4127	63759	100.5	TFT(Surr)
16.493	0.000	3267	27157	99.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	670558	1.071
8015B (2MP-TMB)	1454070	1.065
AKGas (nC6-nC10)	1025562	1.086
NWGas (Tol-Nap)	708486	1.079

* Surrogate areas are subtracted from Total Area
=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
9.220	0.002	13103	98.8	TFT(Surr)
16.505	-0.002	28241	103.5	BB(Surr)

AROMATICICS (PID)

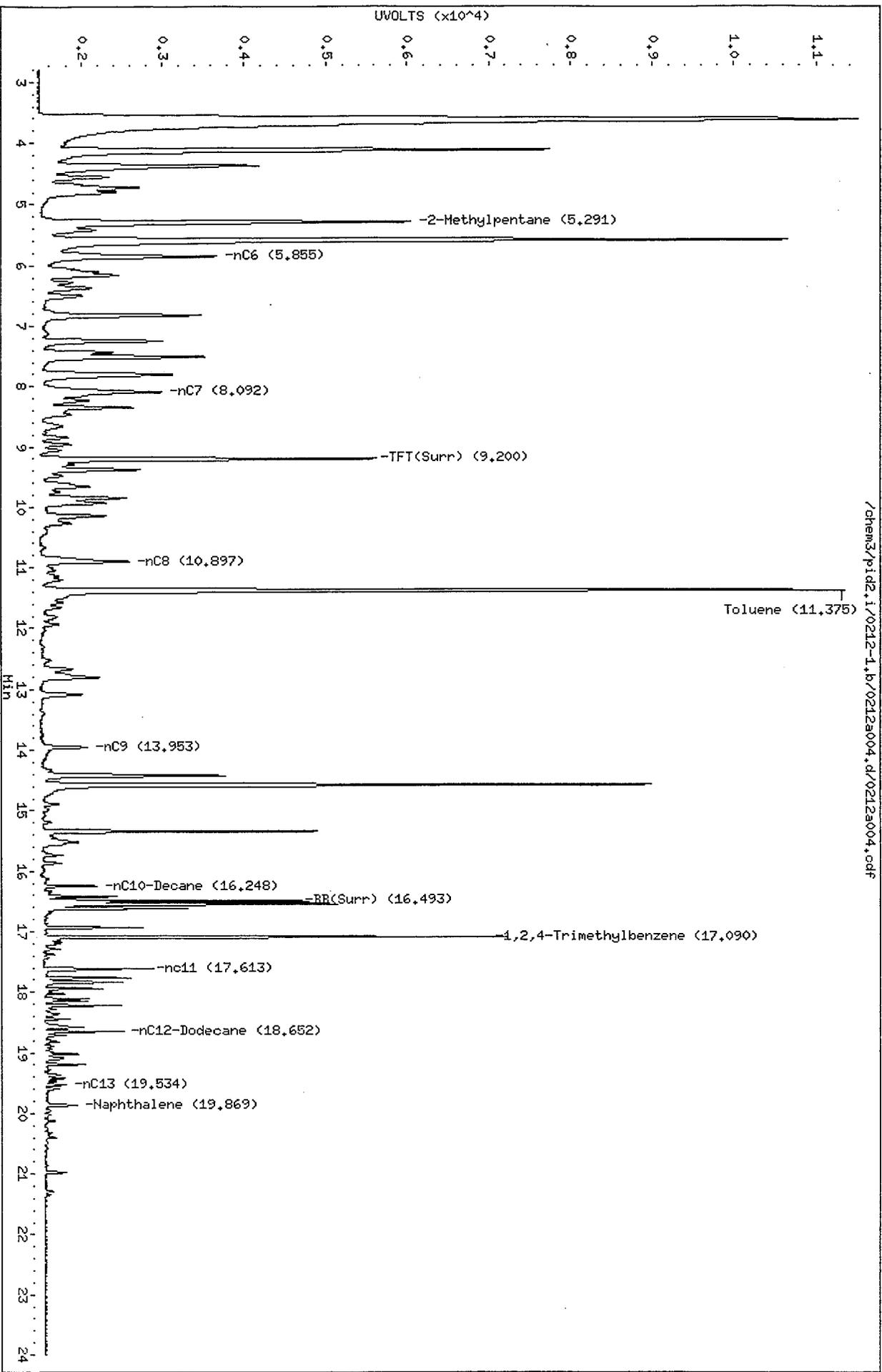
RT	Shift	Response	Amount	Compound
8.366	0.002	5834	6.66	Benzene
11.394	0.003	42850	68.32	Toluene
14.434	0.000	6881	10.26	Ethylbenzene
14.588	0.002	28038	43.34	M/P-Xylene
15.351	-0.001	9738	15.31	O-Xylene
5.608	0.004	28451	103.25	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.1/0212-1.b/0212a004.d
Date: 12-FEB-2008 10:50
Client ID:
Sample Info: LCS021208S1

Column phase: RTX 502-2 FID

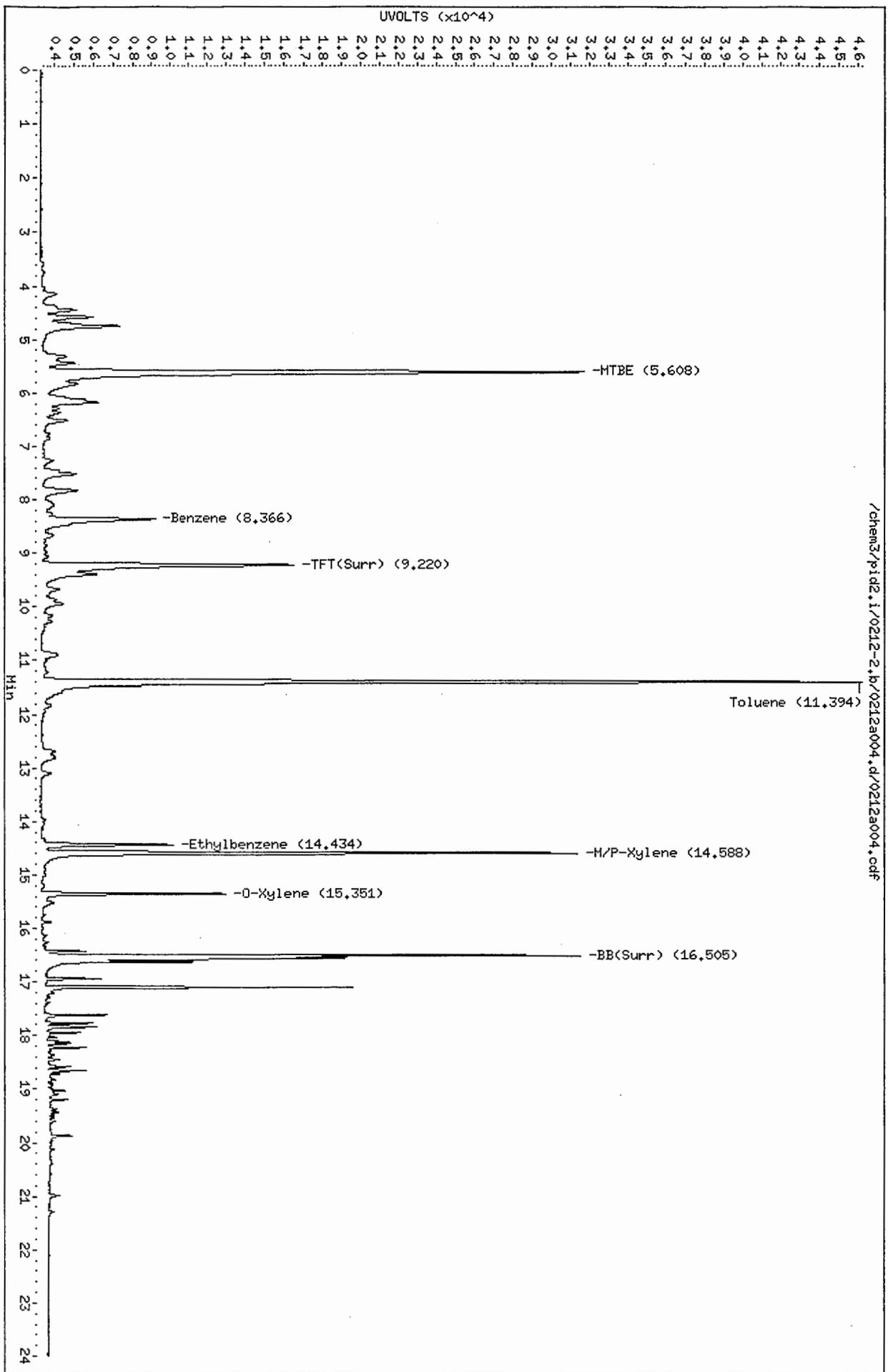
Instrument: pid2.1
Operator: PC
Column diameter: 0.18



Data File: /chem3/pid2.1/0212-2.b/0212a004.d
Date: 12-FEB-2008 10:50
Client ID:
Sample Info: LCS021208S1

Column phase: RTX 502-2 PID

Instrument: pid2.i
Operator: PC
Column diameter: 0.18



PC
2/12/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/0212-1.b/0212a005.d
Data file 2: /chem3/pid2.i/0212-2.b/0212a005.d
Method: /chem3/pid2.i/0212-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JAN-2008
BETX Ical Date: 28-JAN-2008

ARI ID: LCSD021208S1
Client ID:
Injection Date: 12-FEB-2008 11:19
Matrix: WATER
Dilution Factor: 1.000

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
9.200	0.002	4041	62901	98.4	TFT(Surr)
16.493	0.000	3238	27140	98.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	623164	0.995
8015B (2MP-TMB)	1363676	0.998
AKGas (nC6-nC10)	956414	1.013
NWGas (Tol-Nap)	656902	1.000

* Surrogate areas are subtracted from Total Area
=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
9.221	0.003	12916	97.4	TFT(Surr)
16.505	-0.002	27445	100.6	BB(Surr)

AROMATICICS (PID)

RT	Shift	Response	Amount	Compound
8.365	0.001	5642	6.45	Benzene
11.394	0.004	40889	65.19	Toluene
14.435	0.000	6501	9.69	Ethylbenzene
14.588	0.002	26738	41.33	M/P-Xylene
15.352	0.000	9321	14.66	O-Xylene
5.608	0.004	27624	100.25	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/0212-1.b/0212a005.d

Date: 12-FEB-2008 11:19

Client ID:

Sample Info: LCSD021208S1

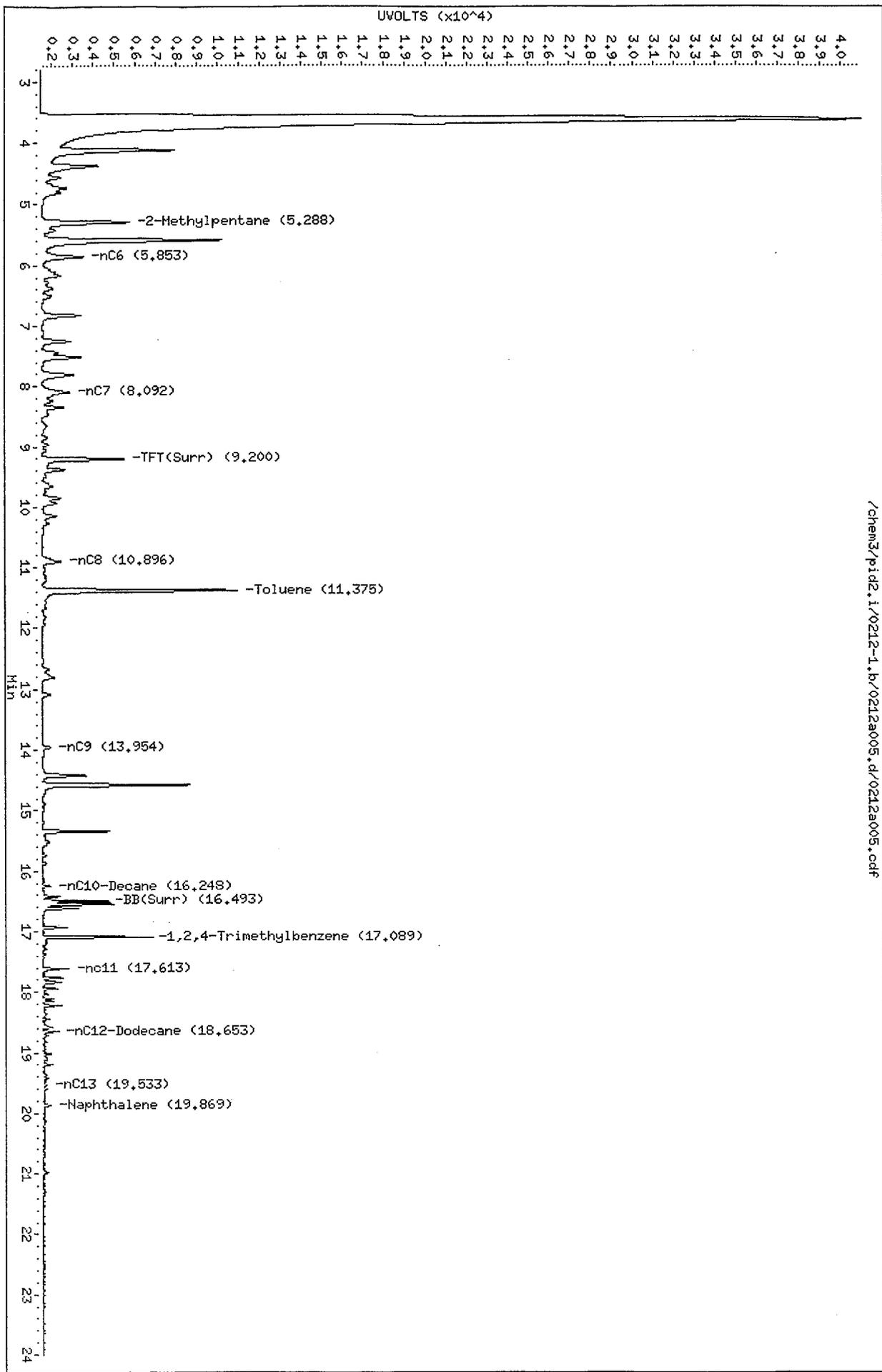
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: PC

Column diameter: 0.18

/chem3/pid2.i/0212-1.b/0212a005.d/0212a005.cdf



Data File: /chem3/pid2.i/0212-2.b/0212a005.d

Date : 12-FEB-2008 11:19

Client ID:

Sample Info: LCSD021208S1

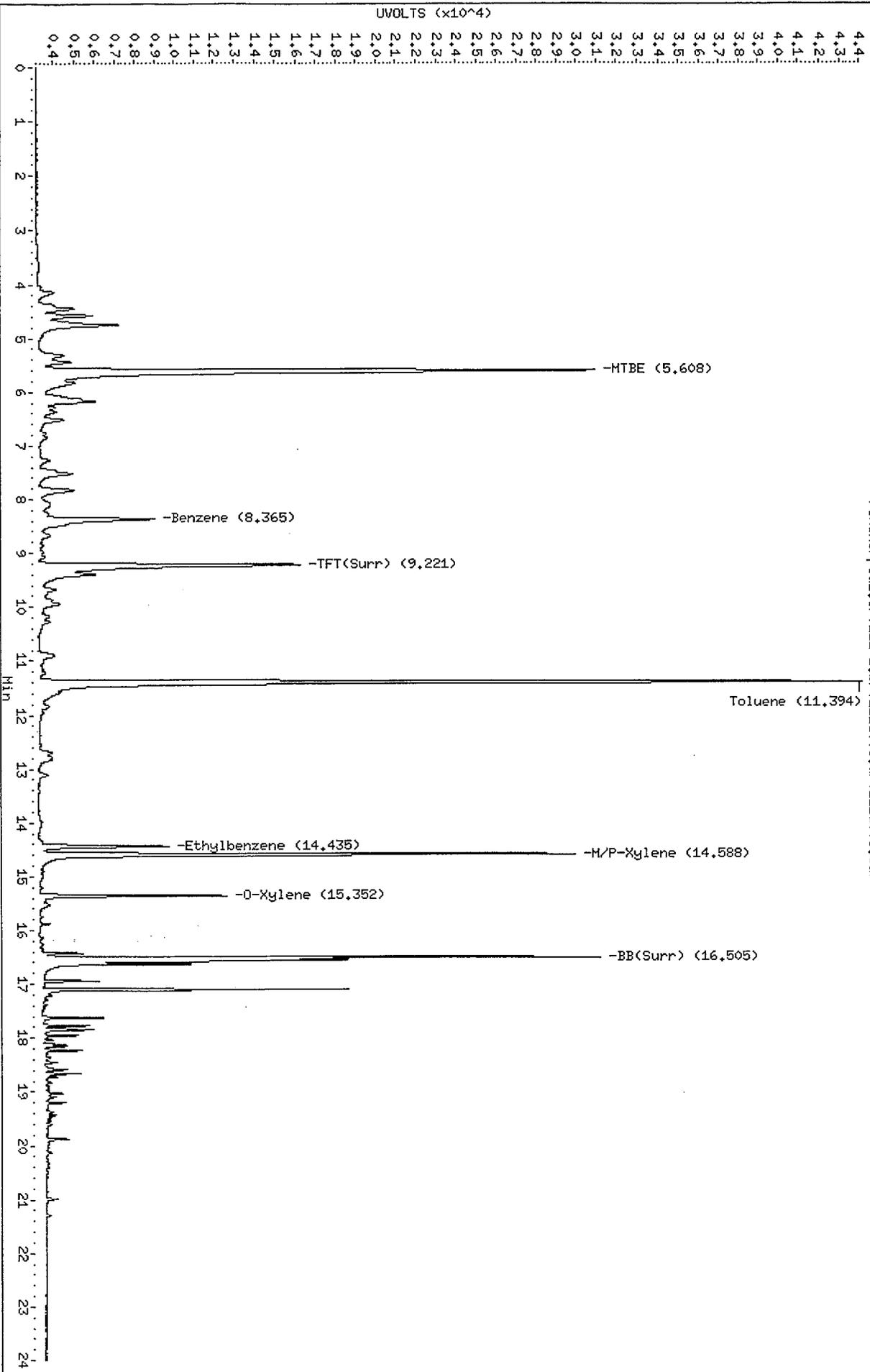
Instrument: pid2.i

Operator: PC

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid2.i/0212-2.b/0212a005.d/0212a005.cdf



pc
2/13/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/0212-1.b/0212a011.d
Data file 2: /chem3/pid2.i/0212-2.b/0212a011.d
Method: /chem3/pid2.i/0212-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JAN-2008
BETX Ical Date: 28-JAN-2008

ARI ID: MI25A
Client ID: MW-1
Injection Date: 12-FEB-2008 14:57
Matrix: WATER
Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
9.198	0.000	3904	62066	95.1	TFT (Surr)
16.493	-0.001	3172	27516	96.2	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	315	0.001
8015B (2MP-TMB)	164	0.000
AKGas (nC6-nC10)	164	0.000
NWGas (Tol-Nap)	315	0.000

* Surrogate areas are subtracted from Total Area

=====

RT	Shift	PID Surrogates Response	%Rec	Compound
9.218	0.000	12314	92.8	TFT (Surr)
16.504	-0.003	26017	95.4	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
15.404	0.052	118	0.19	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/0212-1.b/0212a011.d

Date: 12-FEB-2008 14:57

Client ID: MW-1

Sample Info: M125A

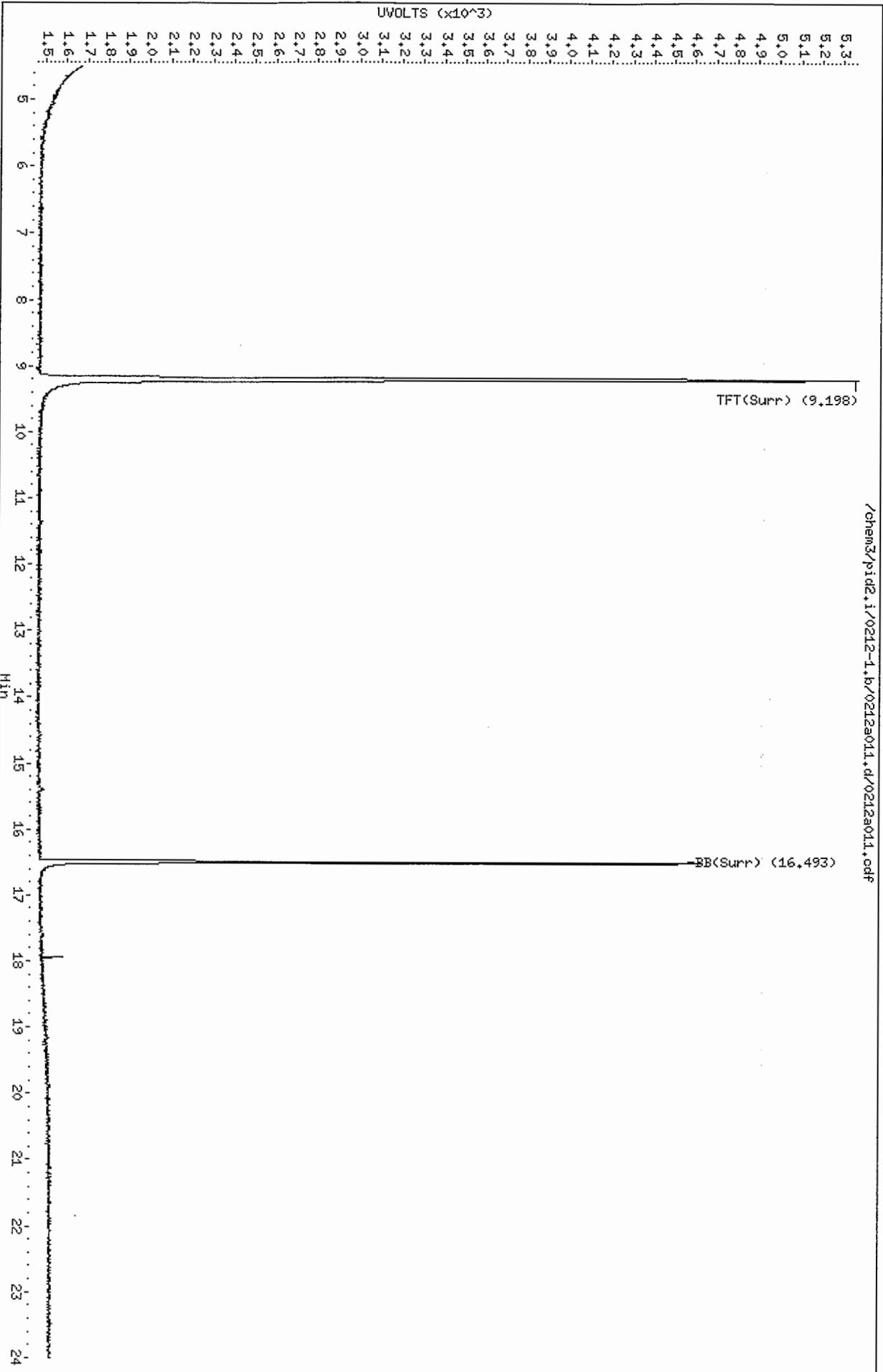
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: PC

Column diameter: 0.18

Page 1

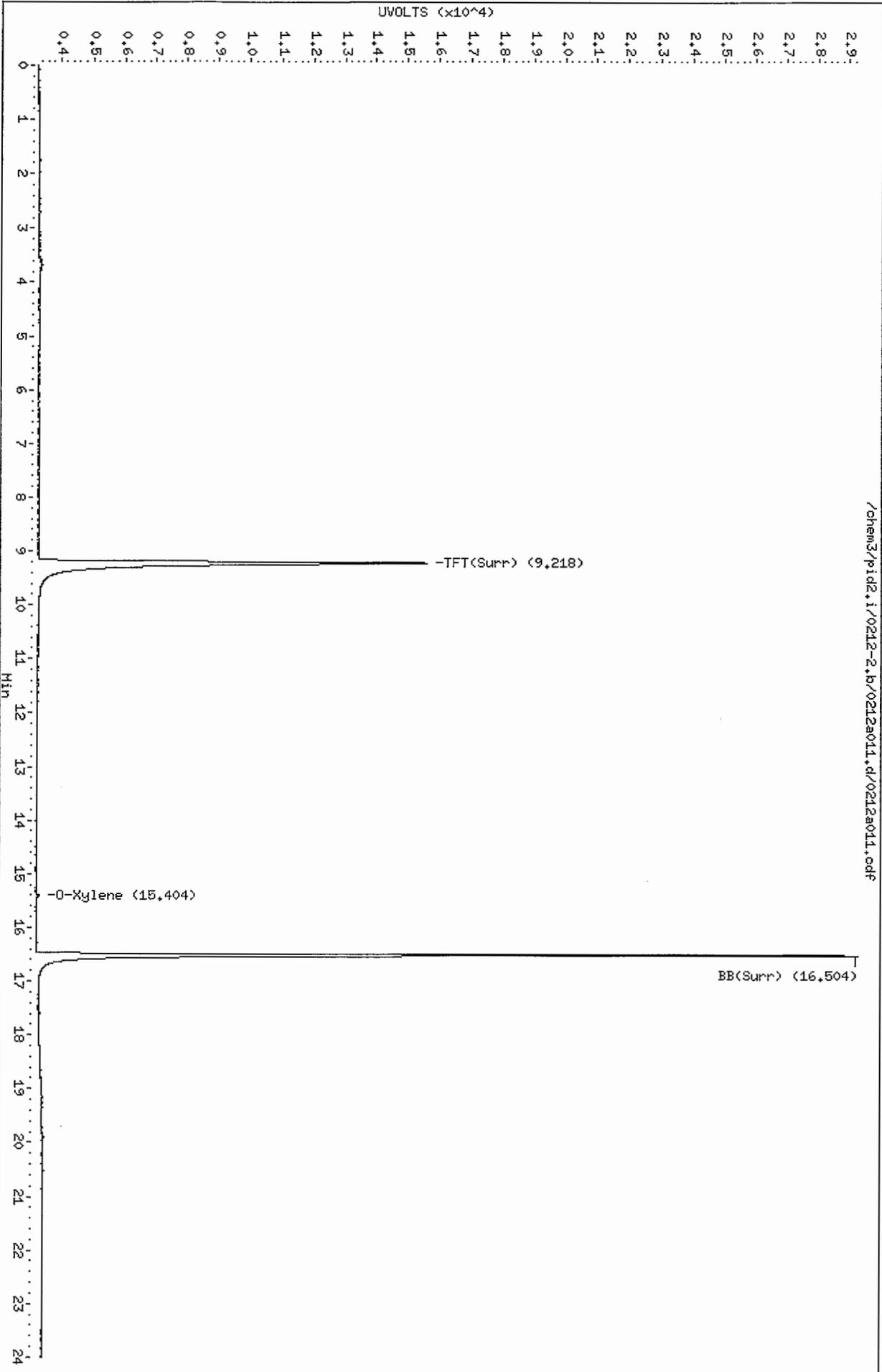


Data File: /chem3/pid2.i/0212-2.b/0212a011.d
Date: 12-FEB-2008 14:57
Client ID: MW-1
Sample Info: H125A

Instrument: pid2.i

Column phase: RTX 502-2 PID

Operator: PC
Column diameter: 0.18



PC
2/13/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/0212-1.b/0212a018.d
Data file 2: /chem3/pid2.i/0212-2.b/0212a018.d
Method: /chem3/pid2.i/0212-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JAN-2008
BETX Ical Date: 28-JAN-2008

ARI ID: MI25E
Client ID: MW-10
Injection Date: 12-FEB-2008 18:21
Matrix: WATER
Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
9.193	-0.005	3963	62996	96.5	TFT (Surr)
16.489	-0.005	3205	27674	97.2	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	144	0.000
8015B (2MP-TMB)	743	0.001
AKGas (nC6-nC10)	599	0.001
NWGas (Tol-Nap)	144	0.000

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
9.213	-0.005	12456	93.9	TFT (Surr)
16.500	-0.007	26098	95.7	BB (Surr)

AROMATICS (PID)

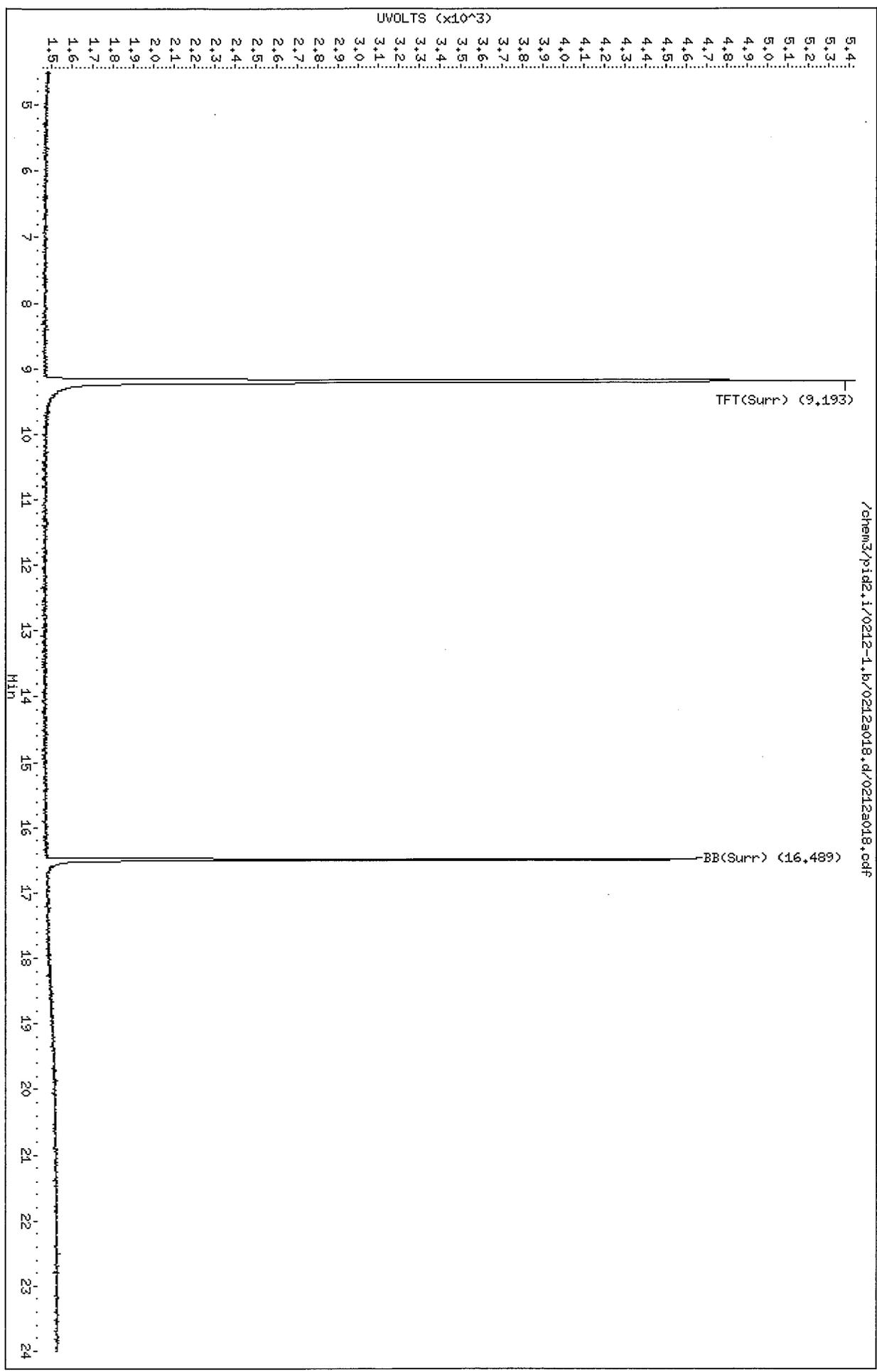
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.1/0212-1.b/0212a018.d
Date: 12-FEB-2008 18:21
Client ID: MM-10
Sample Info: M125E

Column phase: RTX 502-2 FID

Instrument: pid2.1
Operator: PC
Column diameter: 0.18



Data File: /chem3/pid2.i/0212-2.b/0212a018.d

Date: 12-FEB-2008 18:21

Client ID: MW-10

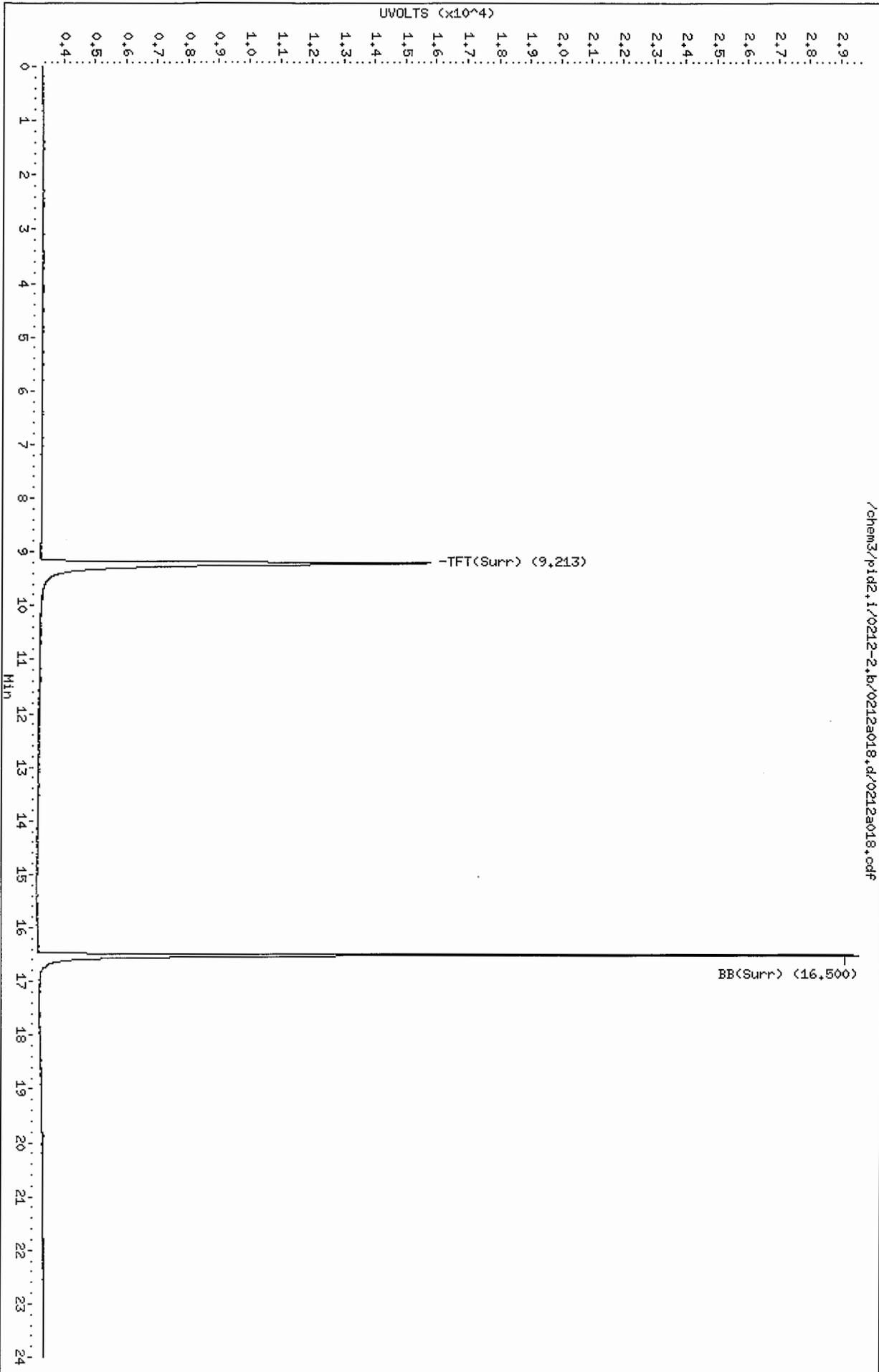
Sample Info: H125E

Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: PC

Column diameter: 0.18



PL
2/13/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/0212-1.b/0212a021.d
Data file 2: /chem3/pid2.i/0212-2.b/0212a021.d
Method: /chem3/pid2.i/0212-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JAN-2008
BETX Ical Date: 28-JAN-2008

ARI ID: MI25F
Client ID: MW-6
Injection Date: 12-FEB-2008 19:48
Matrix: WATER
Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
9.195	-0.003	3945	62999	96.1	TFT(Surr)
16.489	-0.005	3225	27870	97.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	178	0.000
8015B (2MP-TMB)	178	0.000
AKGas (nC6-nC10)	177	0.000
NWGas (Tol-Nap)	178	0.000

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
9.215	-0.003	12182	91.8	TFT(Surr)
16.500	-0.007	25785	94.5	BB(Surr)

AROMATICS (PID)

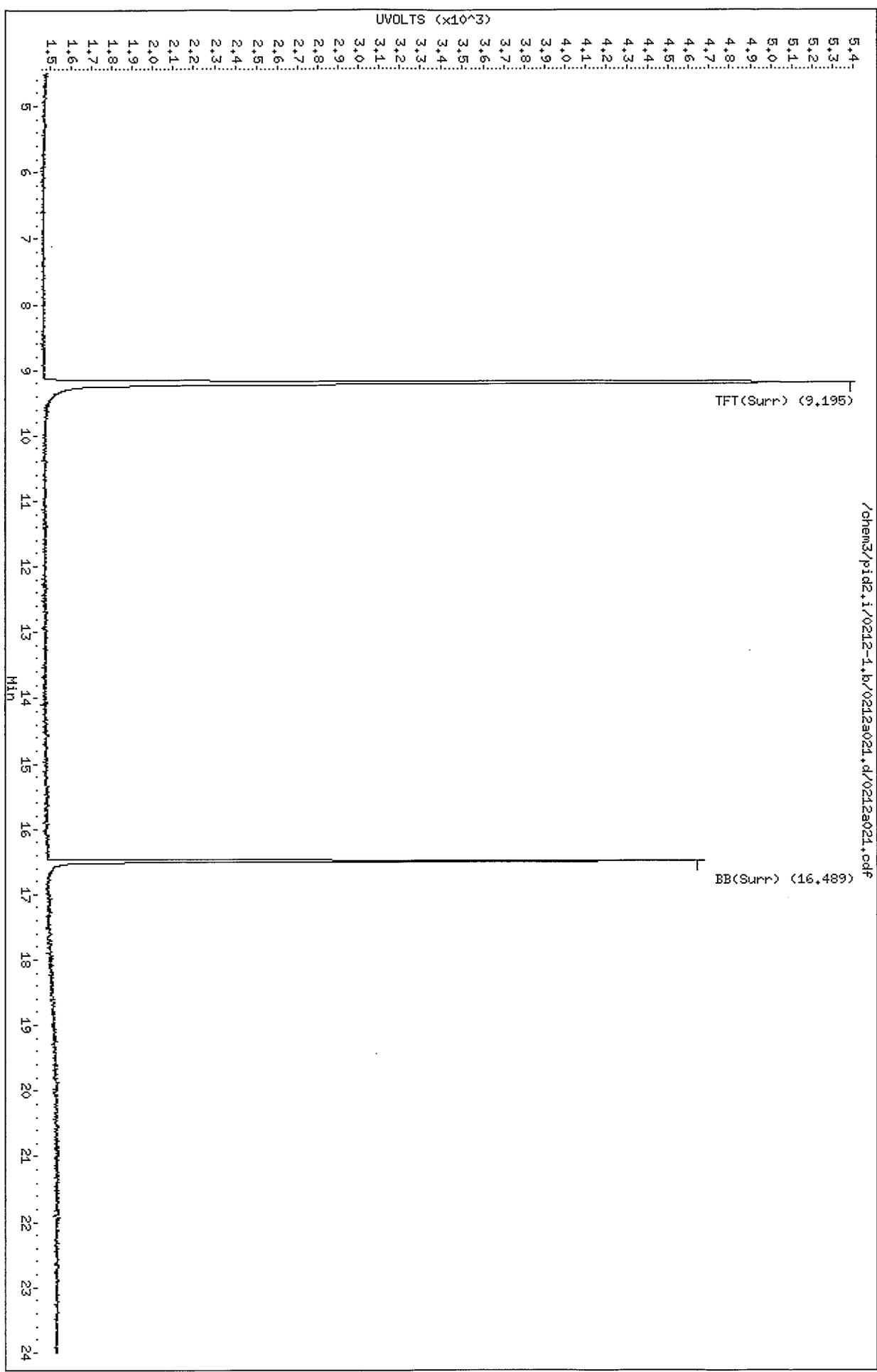
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.1/0212-4.1b/0212a021.d
Date: 12-FEB-2008 19:48
Client ID: MM-6
Sample Info: M125F

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: PC
Column diameter: 0.18



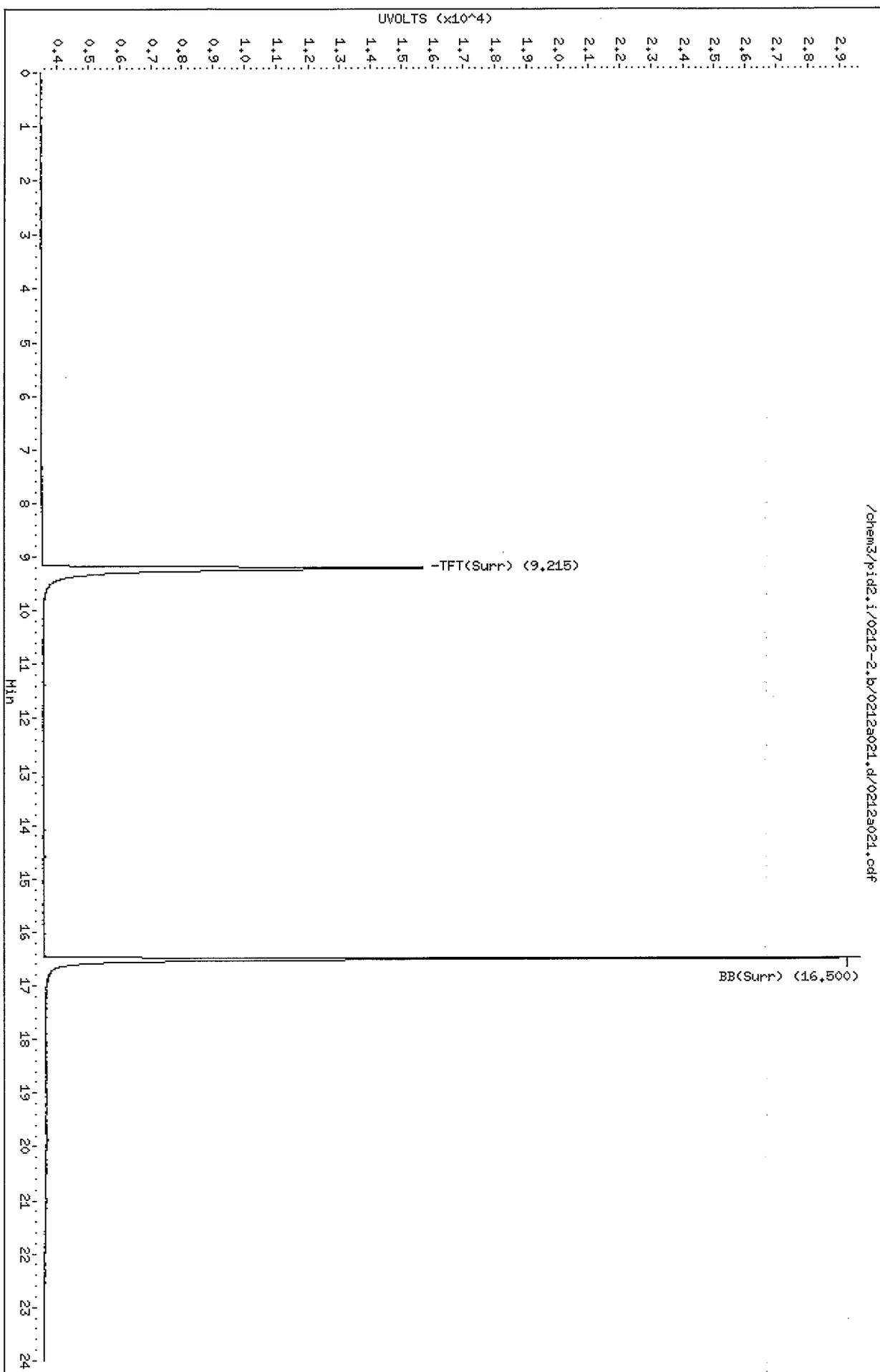
Data File: /chem3/pid2.i/0212-2.b/0212a021.d
Date: 12-FEB-2008 19:48
Client ID: MM-6
Sample Info: M125F

Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: PC

Column diameter: 0.18



PC
2/13/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/0212-1.b/0212a022.d
Data file 2: /chem3/pid2.i/0212-2.b/0212a022.d
Method: /chem3/pid2.i/0212-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JAN-2008
BETX Ical Date: 28-JAN-2008

ARI ID: MI25G
Client ID: MW-5
Injection Date: 12-FEB-2008 20:17
Matrix: WATER
Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
9.190	-0.007	3956	62638	96.3	TFT (Surr)
16.488	-0.006	3208	27608	97.3	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	1	0.000
8015B (2MP-TMB)	737	0.001
AKGas (nC6-nC10)	737	0.001
NWGas (Tol-Nap)	1	0.000

* Surrogate areas are subtracted from Total Area

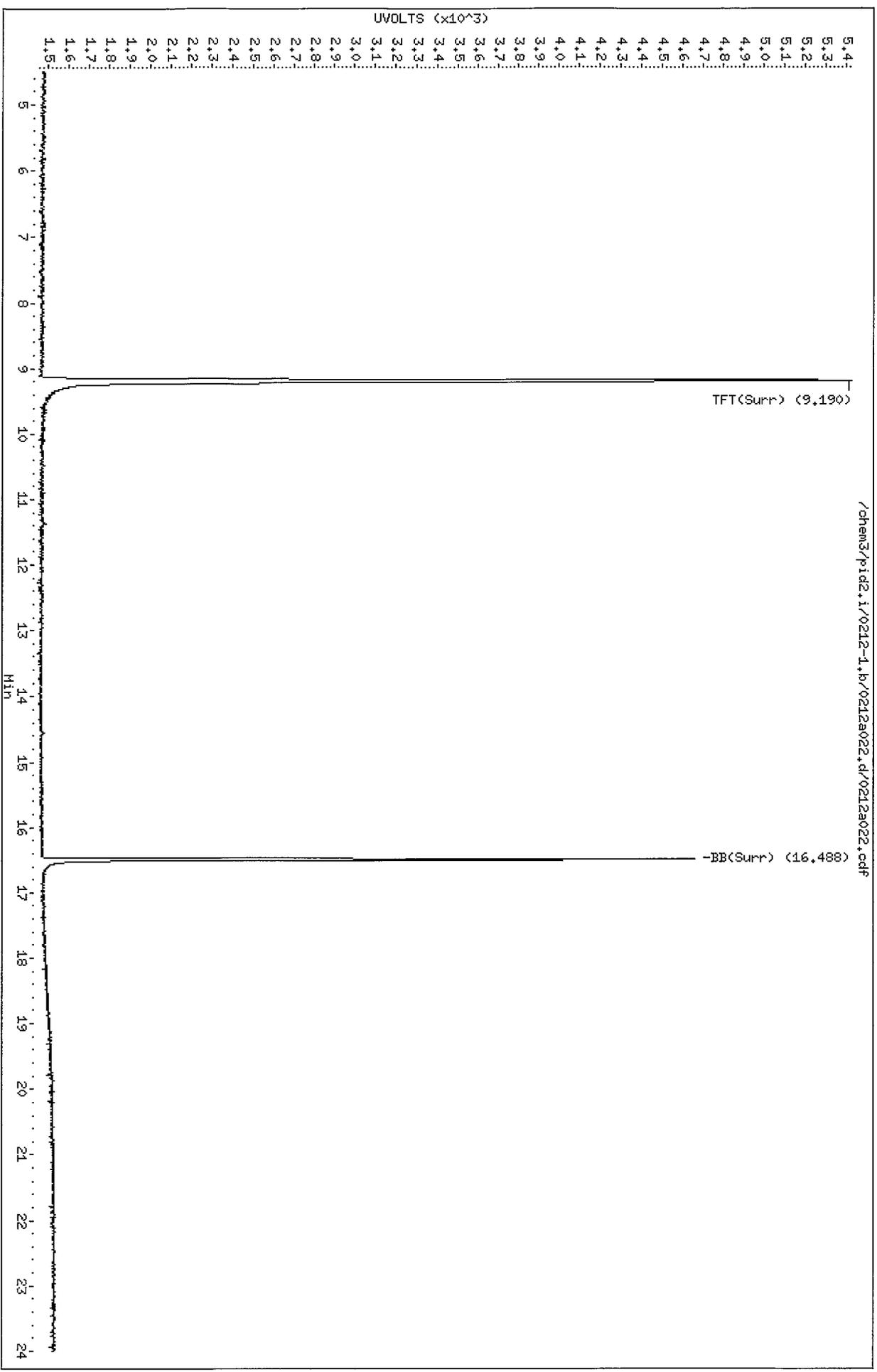
=====

RT	Shift	PID Surrogates Response	%Rec	Compound
9.210	-0.008	12380	93.3	TFT (Surr)
16.499	-0.008	25762	94.5	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated



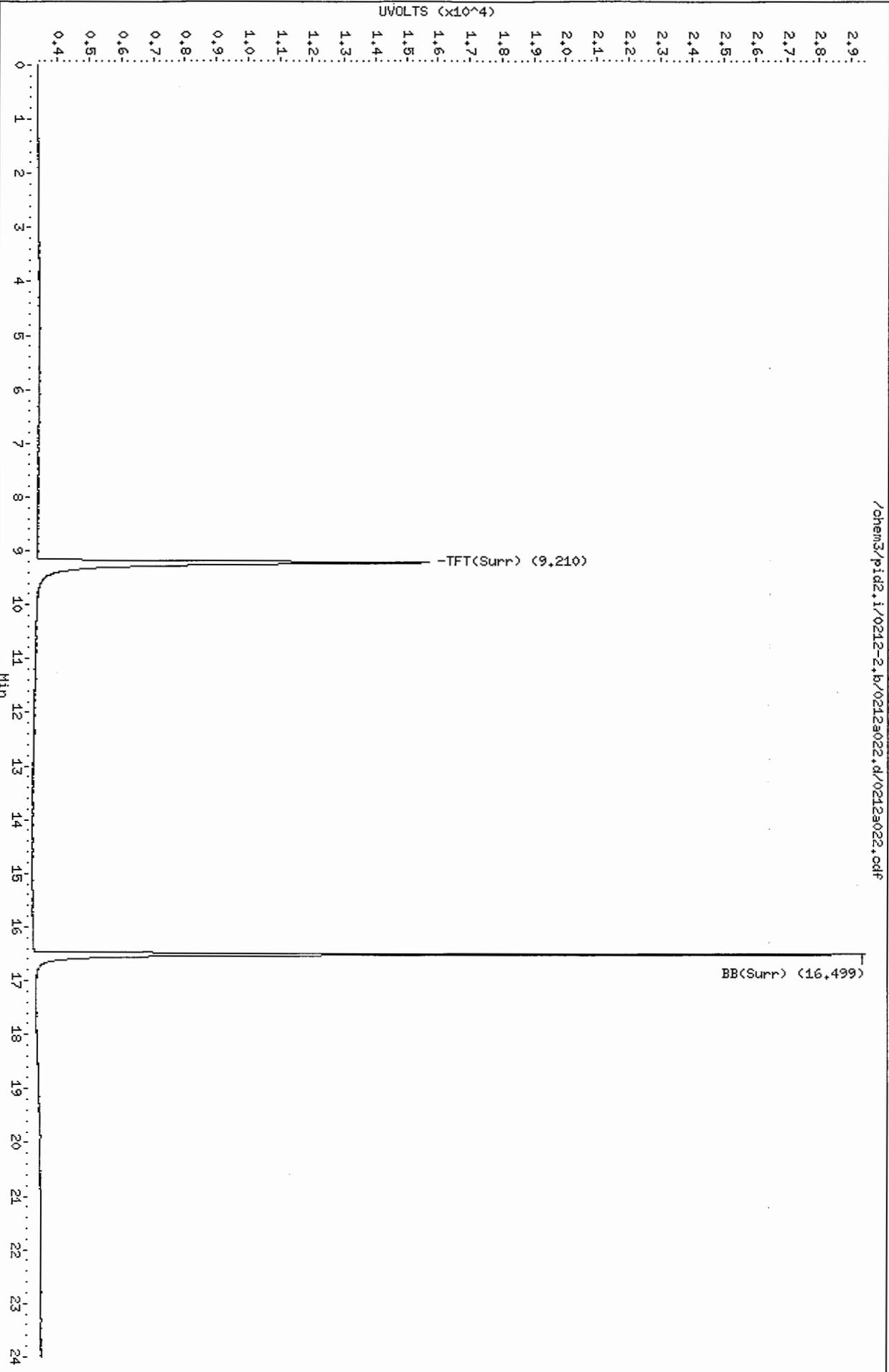
Data File: /chem3/pid2.i/0212-2.b/0212a022.d
Date: 12-FEB-2008 20:17
Client ID: MW-5
Sample Info: M125G

Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: PC

Column diameter: 0.18



Analytical Resources Inc.
 BETX/Gas Quantitation Report

PL
 2/13/08

Data file 1: /chem3/pid2.i/0212-1.b/0212a007.d
 Data file 2: /chem3/pid2.i/0212-2.b/0212a007.d
 Method: /chem3/pid2.i/0212-2.b/PIDB.m
 Instrument: pid2.i
 Gas Ical Date: 28-JAN-2008
 BETX Ical Date: 28-JAN-2008

ARI ID: MI25H
 Client ID: TRIP BLANK
 Injection Date: 12-FEB-2008 13:01
 Matrix: WATER
 Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
9.200	0.002	4168	62358	101.5	TFT (Surr)
16.496	0.003	3172	28046	96.2	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	1677	0.003
8015B (2MP-TMB)	1073	0.001
AKGas (nC6-nC10)	1073	0.001
NWGas (Tol-Nap)	1911	0.003

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
9.221	0.003	13280	100.1	TFT (Surr)
16.508	0.001	26880	98.6	BB (Surr)

AROMATICS (PID)

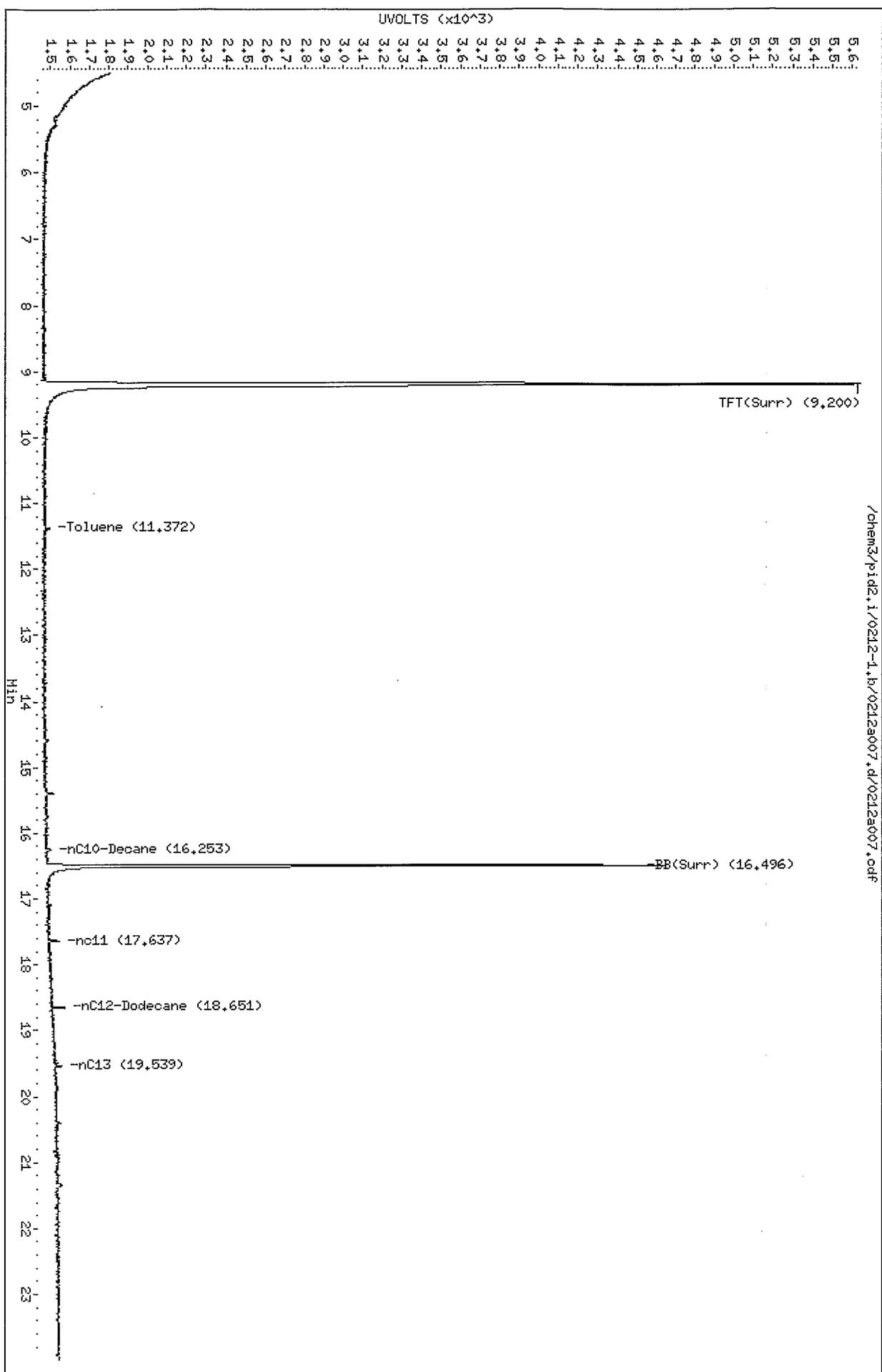
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
15.405	0.052	119	0.19	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak peak was manually integrated

Data File: /chem3/pid2.1/0212-1.b/0212a007.d
Date: 12-FEB-2008 13:01
Client ID: TRIP BLANK
Sample Info: H125H

Column phase: RTX 502-2 FID

Instrument: pid2.1
Operator: PC
Column diameter: 0.18



Data File: /chem3/pid2.i/0212-2.b/0212a007.d

Date: 12-FEB-2008 13:04

Client ID: TRIP BLANK

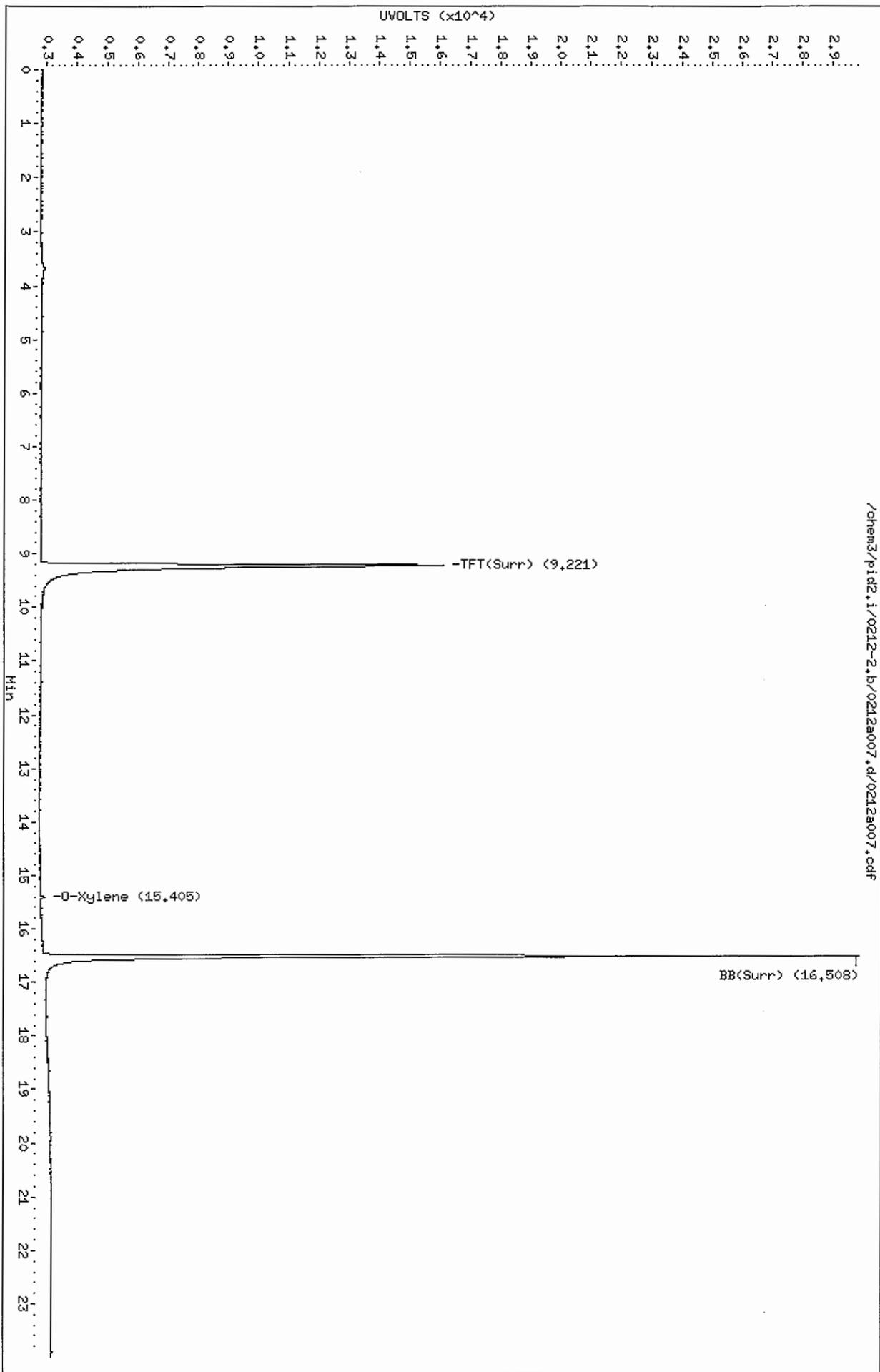
Sample Info: HI25H

Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: PC

Column diameter: 0.18



PC
2/13/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/0212-1.b/0212a019.d
Data file 2: /chem3/pid2.i/0212-2.b/0212a019.d
Method: /chem3/pid2.i/0212-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JAN-2008
BETX Ical Date: 28-JAN-2008

ARI ID: MI25EMS
Client ID: MW-10 MS
Injection Date: 12-FEB-2008 18:50
Matrix: WATER
Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
9.193	-0.005	3862	59599	94.0	TFT(Surr)
16.489	-0.005	3148	26544	95.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	639772	1.021
8015B (2MP-TMB)	1351868	0.990
AKGas (nC6-nC10)	939446	0.995
NWGas (Tol-Nap)	671503	1.023

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
9.213	-0.005	12157	91.6	TFT(Surr)
16.500	-0.007	26116	95.7	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
8.358	-0.006	6116	6.99	Benzene
11.385	-0.005	43375	69.16	Toluene
14.426	-0.009	6798	10.14	Ethylbenzene
14.579	-0.007	28291	43.73	M/P-Xylene
15.345	-0.007	9879	15.54	O-Xylene
5.604	0.000	29784	108.09	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/0212-1.b/0212a019.d

Date: 12-FEB-2008 18:50

Client ID: MM-10 HS

Sample Info: M12SEHS

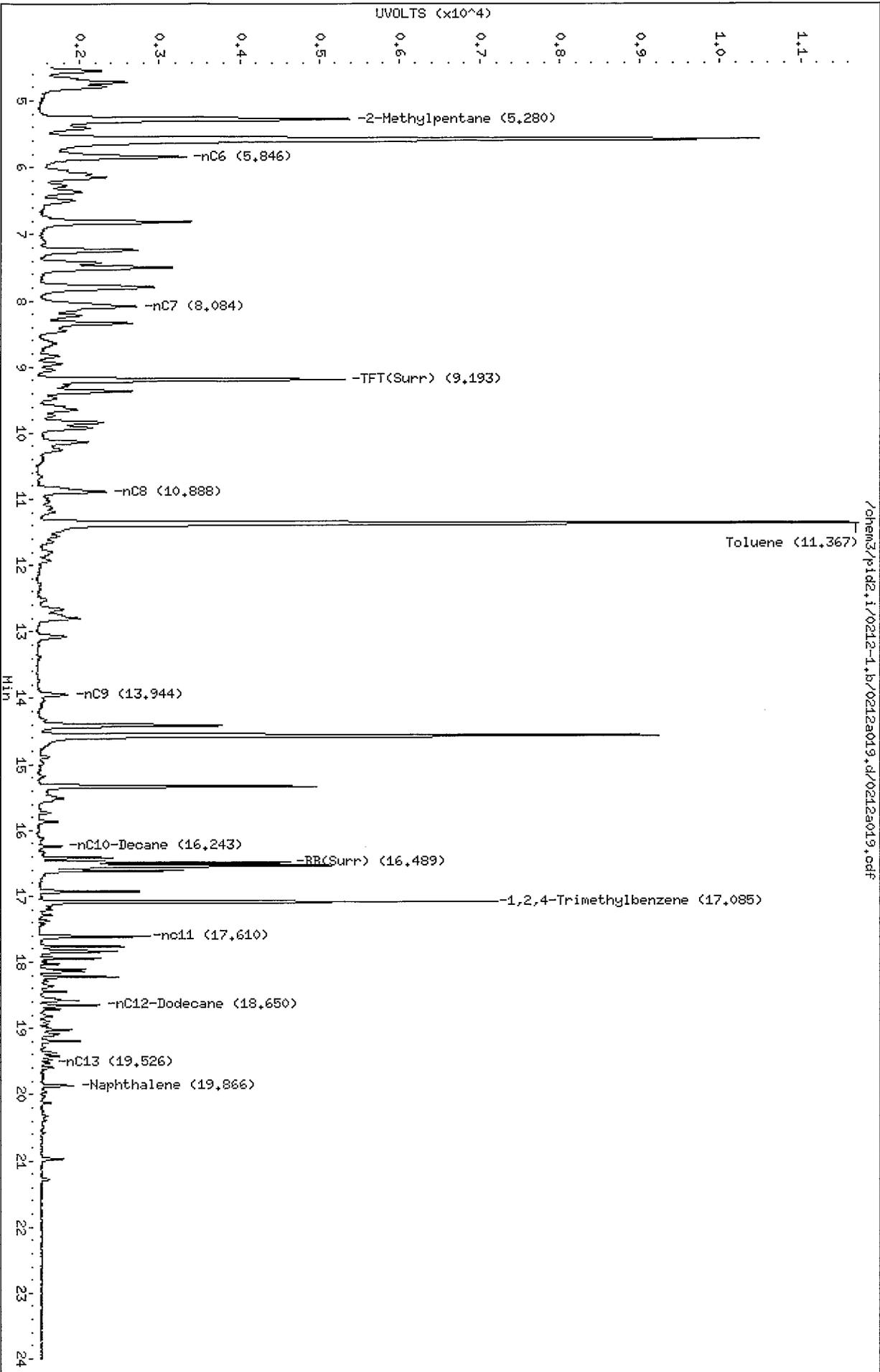
Instrument: pid2.i

Operator: PC

Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid2.i/0212-1.b/0212a019.d/0212a019.pdf



Data File: /chem3/pid2.i/0212-2.b/0212a019.d

Date: 12-FEB-2008 18:50

Client ID: MW-10 HS

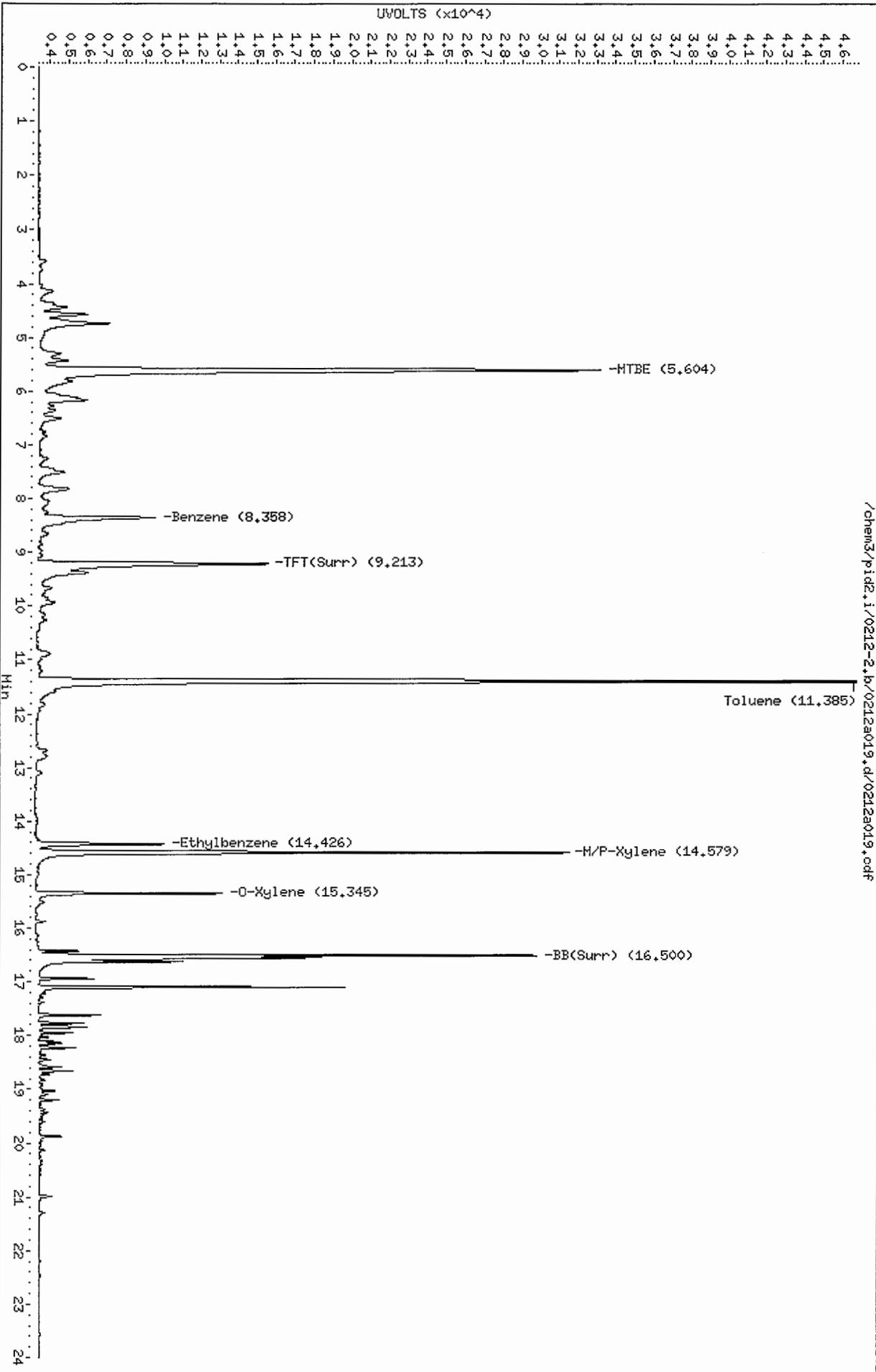
Sample Info: HI2SEHS

Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: PC

Column diameter: 0.18



PK
2/13/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/0212-1.b/0212a020.d
Data file 2: /chem3/pid2.i/0212-2.b/0212a020.d
Method: /chem3/pid2.i/0212-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JAN-2008
BETX Ical Date: 28-JAN-2008

ARI ID: MI25EMSD
Client ID: MW-10 MSD
Injection Date: 12-FEB-2008 19:19
Matrix: WATER
Dilution Factor: 1.000

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
9.190	-0.008	3897	58157	94.9	TFT(Surr)
16.488	-0.005	3171	25977	96.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	610268	0.974
8015B (2MP-TMB)	1275290	0.934
AKGas (nC6-nC10)	877497	0.929
NWGas (Tol-Nap)	641196	0.976

* Surrogate areas are subtracted from Total Area
=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
9.210	-0.008	12362	93.2	TFT(Surr)
16.499	-0.008	26174	96.0	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
8.357	-0.007	6030	6.89	Benzene
11.383	-0.007	43293	69.03	Toluene
14.424	-0.010	6641	9.90	Ethylbenzene
14.578	-0.008	27972	43.24	M/P-Xylene
15.343	-0.009	9747	15.33	O-Xylene
5.605	0.001	29610	107.45	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/0212-1.b/0212a020.d

Date: 12-FEB-2008 19:19

Client ID: MW-10 HSD

Sample Info: H125EHSD

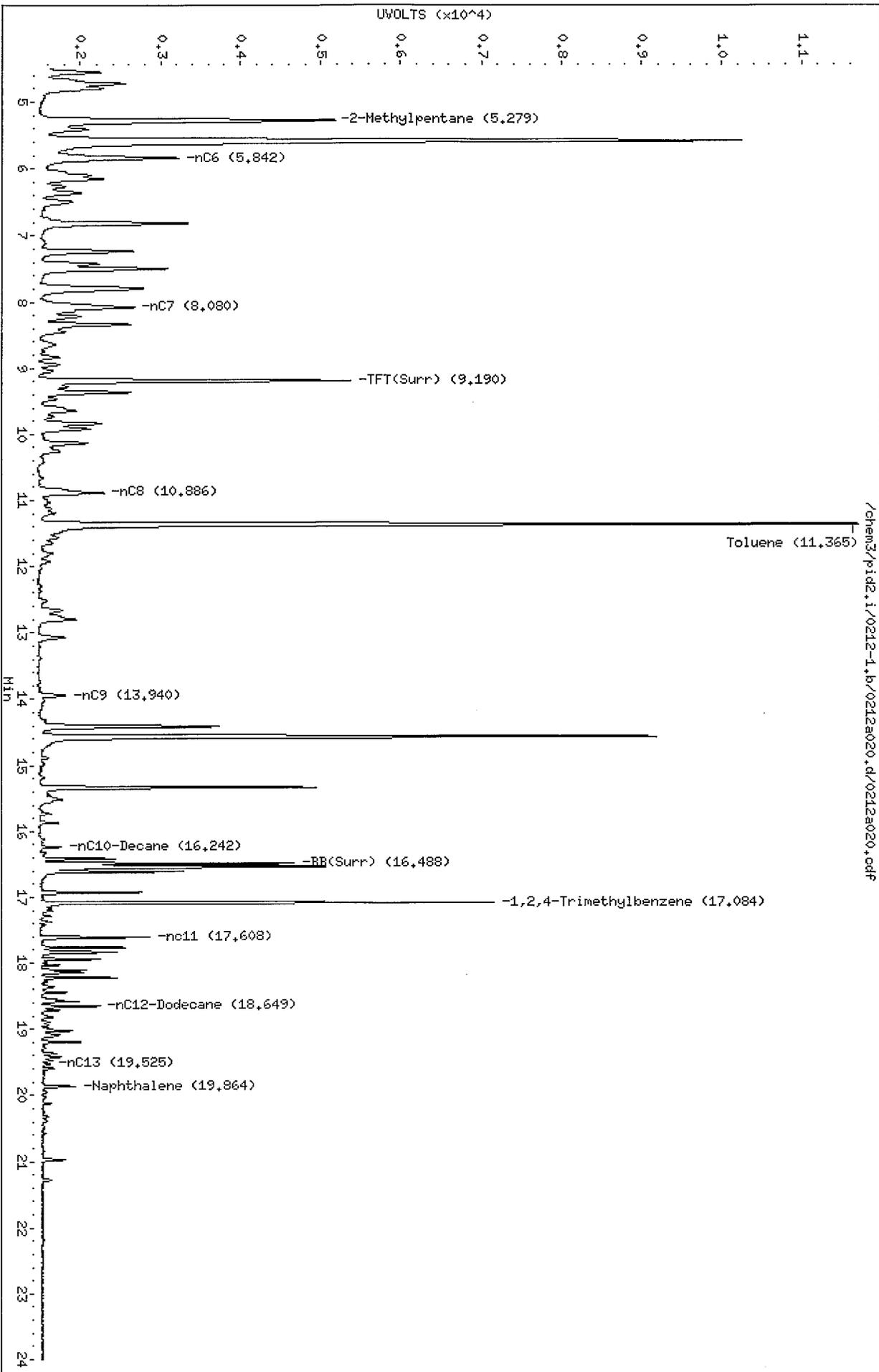
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: PC

Column diameter: 0.18

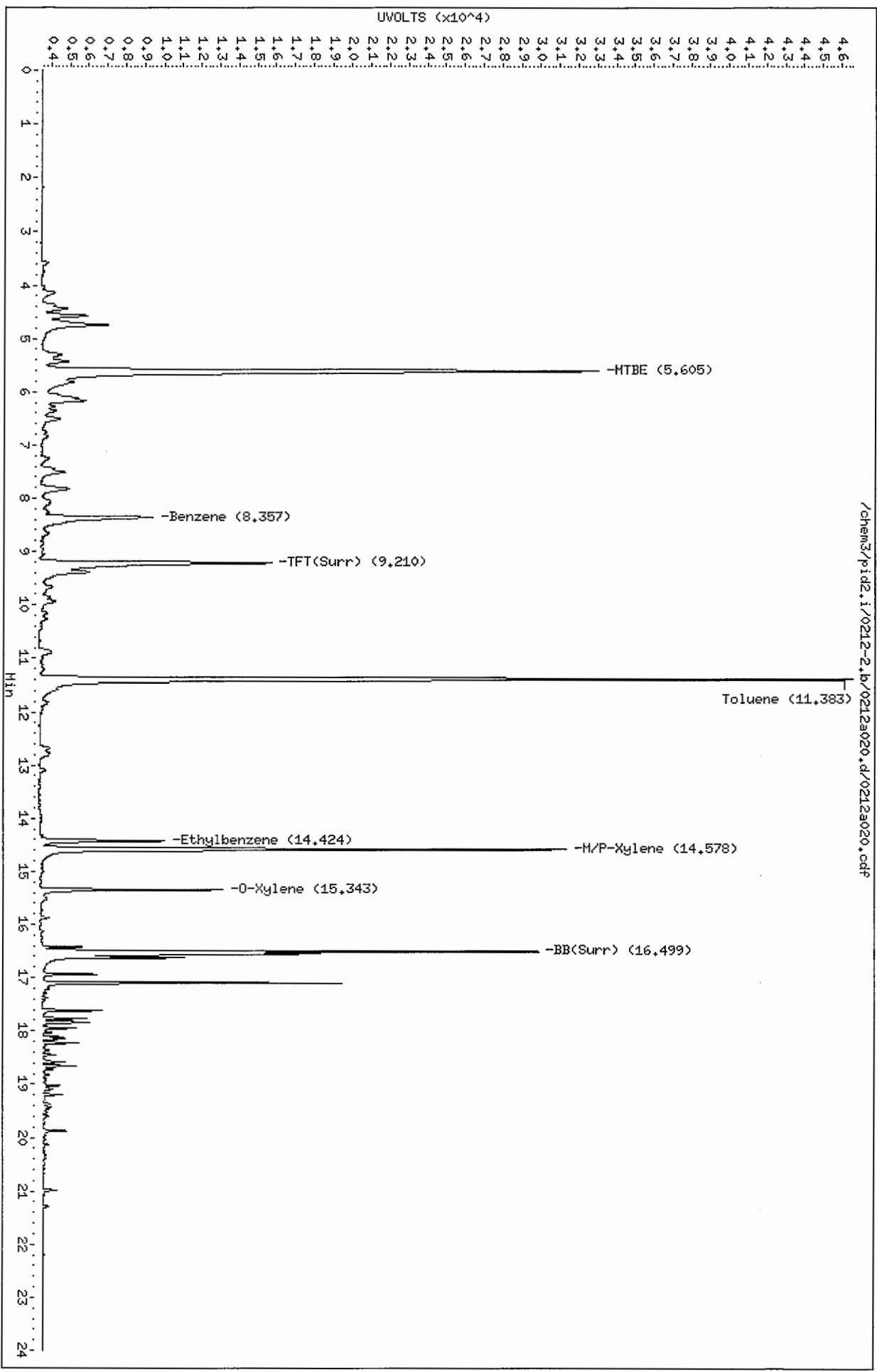
Page 1



Data File: /chem3/pid2.i/0212-2.b/0212a020.d
Date: 12-FEB-2008 19:19
Client ID: MW-10 HSD
Sample Info: MISEHSD

Column phase: RTX 502-2 PID

Instrument: pid2.i
Operator: PC
Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: MB-021108
METHOD BLANK

Lab Sample ID: MB-021108
LIMS ID: 08-2485
Matrix: Water
Data Release Authorized: 
Reported: 02/15/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
NA
Date Sampled: NA
Date Received: NA

Date Extracted: 02/11/08
Date Analyzed: 02/13/08 10:15
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

Sample ID: MB-021108
 METHOD BLANK

Lab Sample ID: MB-021108
 LIMS ID: 08-2485
 Matrix: Water
 Date Analyzed: 02/13/08 10:15

QC Report No: MI25-Parametrix, Inc.
 Project: Yakima Resources (YR)
 NA

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo (a) anthracene	1.0	< 1.0 U
117-81-7	bis (2-Ethylhexyl) phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo (b) fluoranthene	1.0	< 1.0 U
207-08-9	Benzo (k) fluoranthene	1.0	< 1.0 U
50-32-8	Benzo (a) pyrene	1.0	< 1.0 U
193-39-5	Indeno (1,2,3-cd) pyrene	1.0	< 1.0 U
53-70-3	Dibenz (a,h) anthracene	1.0	< 1.0 U
191-24-2	Benzo (g,h,i) perylene	1.0	< 1.0 U
90-12-0	1-Methylnaphthalene	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	81.6%	2-Fluorobiphenyl	80.4%
d14-p-Terphenyl	92.0%	d4-1,2-Dichlorobenzene	70.8%
d5-Phenol	81.9%	2-Fluorophenol	77.6%
2,4,6-Tribromophenol	78.4%	d4-2-Chlorophenol	84.0%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2Sample ID: MW-1
SAMPLE

Lab Sample ID: MI25A

LIMS ID: 08-2485

Matrix: Water

Data Release Authorized: *M*

Reported: 02/15/08

QC Report No: MI25-Parametrix, Inc.

Project: Yakima Resources (YR)

NA

Date Sampled: 02/05/08

Date Received: 02/08/08

Date Extracted: 02/11/08

Date Analyzed: 02/13/08 14:21

Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL

Final Extract Volume: 0.50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

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Semivolatiles by SW8270D GC/MS
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Sample ID: MW-1
SAMPLE

Lab Sample ID: MI25A
LIMS ID: 08-2485
Matrix: Water
Date Analyzed: 02/13/08 14:21

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
NA

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-12-0	1-Methylnaphthalene	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	70.8%	2-Fluorobiphenyl	73.2%
d14-p-Terphenyl	78.4%	d4-1,2-Dichlorobenzene	70.4%
d5-Phenol	71.5%	2-Fluorophenol	67.7%
2,4,6-Tribromophenol	75.2%	d4-2-Chlorophenol	73.9%

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Semivolatiles by SW8270D GC/MS
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Sample ID: MW-10
SAMPLE

Lab Sample ID: MI25E
LIMS ID: 08-2489
Matrix: Water
Data Release Authorized:
Reported: 02/15/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
NA
Date Sampled: 02/06/08
Date Received: 02/08/08

Date Extracted: 02/11/08
Date Analyzed: 02/13/08 16:40
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: MW-10
SAMPLE

Lab Sample ID: MI25E
LIMS ID: 08-2489
Matrix: Water
Date Analyzed: 02/13/08 16:40

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
NA

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo (a) anthracene	1.0	< 1.0 U
117-81-7	bis (2-Ethylhexyl) phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo (b) fluoranthene	1.0	< 1.0 U
207-08-9	Benzo (k) fluoranthene	1.0	< 1.0 U
50-32-8	Benzo (a) pyrene	1.0	< 1.0 U
193-39-5	Indeno (1,2,3-cd) pyrene	1.0	< 1.0 U
53-70-3	Dibenz (a,h) anthracene	1.0	< 1.0 U
191-24-2	Benzo (g,h,i) perylene	1.0	< 1.0 U
90-12-0	1-Methylnaphthalene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	77.2%	2-Fluorobiphenyl	77.6%
d14-p-Terphenyl	79.2%	d4-1,2-Dichlorobenzene	74.0%
d5-Phenol	77.6%	2-Fluorophenol	75.7%
2,4,6-Tribromophenol	81.1%	d4-2-Chlorophenol	81.6%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: MW-10
MATRIX SPIKE

Lab Sample ID: MI25E
LIMS ID: 08-2489
Matrix: Water
Data Release Authorized:
Reported: 02/15/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
NA
Date Sampled: 02/06/08
Date Received: 02/08/08

Date Extracted: 02/11/08
Date Analyzed: 02/13/08 17:15
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	---
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	---
95-57-8	2-Chlorophenol	1.0	---
541-73-1	1,3-Dichlorobenzene	1.0	---
106-46-7	1,4-Dichlorobenzene	1.0	---
100-51-6	Benzyl Alcohol	5.0	---
95-50-1	1,2-Dichlorobenzene	1.0	---
95-48-7	2-Methylphenol	1.0	---
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	---
106-44-5	4-Methylphenol	1.0	---
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	---
67-72-1	Hexachloroethane	1.0	---
98-95-3	Nitrobenzene	1.0	---
78-59-1	Isophorone	1.0	---
88-75-5	2-Nitrophenol	5.0	---
105-67-9	2,4-Dimethylphenol	1.0	---
65-85-0	Benzoic Acid	10	---
111-91-1	bis(2-Chloroethoxy) Methane	1.0	---
120-83-2	2,4-Dichlorophenol	5.0	---
120-82-1	1,2,4-Trichlorobenzene	1.0	---
91-20-3	Naphthalene	1.0	---
106-47-8	4-Chloroaniline	5.0	---
87-68-3	Hexachlorobutadiene	1.0	---
59-50-7	4-Chloro-3-methylphenol	5.0	---
91-57-6	2-Methylnaphthalene	1.0	---
77-47-4	Hexachlorocyclopentadiene	5.0	---
88-06-2	2,4,6-Trichlorophenol	5.0	---
95-95-4	2,4,5-Trichlorophenol	5.0	---
91-58-7	2-Chloronaphthalene	1.0	---
88-74-4	2-Nitroaniline	5.0	---
131-11-3	Dimethylphthalate	1.0	---
208-96-8	Acenaphthylene	1.0	---
99-09-2	3-Nitroaniline	5.0	---
83-32-9	Acenaphthene	1.0	---
51-28-5	2,4-Dinitrophenol	10	---
100-02-7	4-Nitrophenol	5.0	---
132-64-9	Dibenzofuran	1.0	---
606-20-2	2,6-Dinitrotoluene	5.0	---
121-14-2	2,4-Dinitrotoluene	5.0	---
84-66-2	Diethylphthalate	1.0	---

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Semivolatiles by SW8270D GC/MS
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Sample ID: MW-10
MATRIX SPIKE

Lab Sample ID: MI25E
LIMS ID: 08-2489
Matrix: Water
Date Analyzed: 02/13/08 17:15

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
NA

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	---
86-73-7	Fluorene	1.0	---
100-01-6	4-Nitroaniline	5.0	---
534-52-1	4,6-Dinitro-2-Methylphenol	10	---
86-30-6	N-Nitrosodiphenylamine	1.0	---
101-55-3	4-Bromophenyl-phenylether	1.0	---
118-74-1	Hexachlorobenzene	1.0	---
87-86-5	Pentachlorophenol	5.0	---
85-01-8	Phenanthrene	1.0	---
86-74-8	Carbazole	1.0	---
120-12-7	Anthracene	1.0	---
84-74-2	Di-n-Butylphthalate	1.0	---
206-44-0	Fluoranthene	1.0	---
129-00-0	Pyrene	1.0	---
85-68-7	Butylbenzylphthalate	1.0	---
91-94-1	3,3'-Dichlorobenzidine	5.0	---
56-55-3	Benzo (a) anthracene	1.0	---
117-81-7	bis (2-Ethylhexyl) phthalate	1.0	---
218-01-9	Chrysene	1.0	---
117-84-0	Di-n-Octyl phthalate	1.0	---
205-99-2	Benzo (b) fluoranthene	1.0	---
207-08-9	Benzo (k) fluoranthene	1.0	---
50-32-8	Benzo (a) pyrene	1.0	---
193-39-5	Indeno (1,2,3-cd) pyrene	1.0	---
53-70-3	Dibenz (a,h) anthracene	1.0	---
191-24-2	Benzo (g,h,i) perylene	1.0	---
90-12-0	1-Methylnaphthalene	1.0	---

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	78.4%	2-Fluorobiphenyl	79.6%
d14-p-Terphenyl	68.8%	d4-1,2-Dichlorobenzene	73.6%
d5-Phenol	77.9%	2-Fluorophenol	76.3%
2,4,6-Tribromophenol	87.2%	d4-2-Chlorophenol	81.3%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2Sample ID: MW-10
MATRIX SPIKE DUP

Lab Sample ID: MI25E

QC Report No: MI25-Parametrix, Inc.

LIMS ID: 08-2489

Project: Yakima Resources (YR)

Matrix: Water

NA

Data Release Authorized:

Date Sampled: 02/06/08

Reported: 02/15/08

Date Received: 02/08/08

Date Extracted: 02/11/08

Sample Amount: 500 mL

Date Analyzed: 02/13/08 17:50

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/LJR

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	---
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	---
95-57-8	2-Chlorophenol	1.0	---
541-73-1	1,3-Dichlorobenzene	1.0	---
106-46-7	1,4-Dichlorobenzene	1.0	---
100-51-6	Benzyl Alcohol	5.0	---
95-50-1	1,2-Dichlorobenzene	1.0	---
95-48-7	2-Methylphenol	1.0	---
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	---
106-44-5	4-Methylphenol	1.0	---
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	---
67-72-1	Hexachloroethane	1.0	---
98-95-3	Nitrobenzene	1.0	---
78-59-1	Isophorone	1.0	---
88-75-5	2-Nitrophenol	5.0	---
105-67-9	2,4-Dimethylphenol	1.0	---
65-85-0	Benzoic Acid	10	---
111-91-1	bis(2-Chloroethoxy) Methane	1.0	---
120-83-2	2,4-Dichlorophenol	5.0	---
120-82-1	1,2,4-Trichlorobenzene	1.0	---
91-20-3	Naphthalene	1.0	---
106-47-8	4-Chloroaniline	5.0	---
87-68-3	Hexachlorobutadiene	1.0	---
59-50-7	4-Chloro-3-methylphenol	5.0	---
91-57-6	2-Methylnaphthalene	1.0	---
77-47-4	Hexachlorocyclopentadiene	5.0	---
88-06-2	2,4,6-Trichlorophenol	5.0	---
95-95-4	2,4,5-Trichlorophenol	5.0	---
91-58-7	2-Chloronaphthalene	1.0	---
88-74-4	2-Nitroaniline	5.0	---
131-11-3	Dimethylphthalate	1.0	---
208-96-8	Acenaphthylene	1.0	---
99-09-2	3-Nitroaniline	5.0	---
83-32-9	Acenaphthene	1.0	---
51-28-5	2,4-Dinitrophenol	10	---
100-02-7	4-Nitrophenol	5.0	---
132-64-9	Dibenzofuran	1.0	---
606-20-2	2,6-Dinitrotoluene	5.0	---
121-14-2	2,4-Dinitrotoluene	5.0	---
84-66-2	Diethylphthalate	1.0	---

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Semivolatiles by SW8270D GC/MS
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Sample ID: MW-10
MATRIX SPIKE DUP

Lab Sample ID: MI25E
LIMS ID: 08-2489
Matrix: Water
Date Analyzed: 02/13/08 17:50

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
NA

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	---
86-73-7	Fluorene	1.0	---
100-01-6	4-Nitroaniline	5.0	---
534-52-1	4,6-Dinitro-2-Methylphenol	10	---
86-30-6	N-Nitrosodiphenylamine	1.0	---
101-55-3	4-Bromophenyl-phenylether	1.0	---
118-74-1	Hexachlorobenzene	1.0	---
87-86-5	Pentachlorophenol	5.0	---
85-01-8	Phenanthrene	1.0	---
86-74-8	Carbazole	1.0	---
120-12-7	Anthracene	1.0	---
84-74-2	Di-n-Butylphthalate	1.0	---
206-44-0	Fluoranthene	1.0	---
129-00-0	Pyrene	1.0	---
85-68-7	Butylbenzylphthalate	1.0	---
91-94-1	3,3'-Dichlorobenzidine	5.0	---
56-55-3	Benzo (a) anthracene	1.0	---
117-81-7	bis (2-Ethylhexyl) phthalate	1.0	---
218-01-9	Chrysene	1.0	---
117-84-0	Di-n-Octyl phthalate	1.0	---
205-99-2	Benzo (b) fluoranthene	1.0	---
207-08-9	Benzo (k) fluoranthene	1.0	---
50-32-8	Benzo (a) pyrene	1.0	---
193-39-5	Indeno (1,2,3-cd) pyrene	1.0	---
53-70-3	Dibenz (a,h) anthracene	1.0	---
191-24-2	Benzo (g,h,i) perylene	1.0	---
90-12-0	1-Methylnaphthalene	1.0	---

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	77.2%	2-Fluorobiphenyl	76.4%
d14-p-Terphenyl	71.2%	d4-1,2-Dichlorobenzene	70.4%
d5-Phenol	74.7%	2-Fluorophenol	73.3%
2,4,6-Tribromophenol	84.3%	d4-2-Chlorophenol	78.4%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: MW-10
MS/MSD

Lab Sample ID: MI25E
LIMS ID: 08-2489
Matrix: Water
Data Release Authorized:
Reported: 02/15/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
Date Sampled: 02/06/08
Date Received: 02/08/08

Date Extracted MS/MSD: 02/11/08
Date Analyzed MS: 02/13/08 17:15
MSD: 02/13/08 17:50
Instrument/Analyst MS: NT6/LJR
MSD: NT6/LJR
GPC Cleanup: NO

Sample Amount MS: 500 mL
MSD: 500 mL
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	< 1.0 U	17.4	25.0	69.6%	17.0	25.0	68.0%	2.3%
Bis-(2-Chloroethyl) Ether	< 1.0 U	19.1	25.0	76.4%	18.3	25.0	73.2%	4.3%
2-Chlorophenol	< 1.0 U	20.0	25.0	80.0%	19.0	25.0	76.0%	5.1%
1,3-Dichlorobenzene	< 1.0 U	15.6	25.0	62.4%	15.3	25.0	61.2%	1.9%
1,4-Dichlorobenzene	< 1.0 U	15.9	25.0	63.6%	15.1	25.0	60.4%	5.2%
Benzyl Alcohol	< 5.0 U	34.6	50.0	69.2%	33.4	50.0	66.8%	3.5%
1,2-Dichlorobenzene	< 1.0 U	16.2	25.0	64.8%	15.6	25.0	62.4%	3.8%
2-Methylphenol	< 1.0 U	19.6	25.0	78.4%	19.0	25.0	76.0%	3.1%
2,2'-Oxybis(1-Chloropropane)	< 1.0 U	18.2	25.0	72.8%	17.4	25.0	69.6%	4.5%
4-Methylphenol	< 1.0 U	39.2	50.0	78.4%	37.6	50.0	75.2%	4.2%
N-Nitroso-Di-N-Propylamine	< 5.0 U	19.2	25.0	76.8%	18.5	25.0	74.0%	3.7%
Hexachloroethane	< 1.0 U	14.2	25.0	56.8%	13.9	25.0	55.6%	2.1%
Nitrobenzene	< 1.0 U	18.9	25.0	75.6%	18.5	25.0	74.0%	2.1%
Isophorone	< 1.0 U	21.8	25.0	87.2%	21.4	25.0	85.6%	1.9%
2-Nitrophenol	< 5.0 U	19.7	25.0	78.8%	19.1	25.0	76.4%	3.1%
2,4-Dimethylphenol	< 1.0 U	15.5	25.0	62.0%	16.3	25.0	65.2%	5.0%
Benzoic Acid	< 10.0 U	55.4	75.0	73.9%	56.8	75.0	75.0%	2.5%
bis(2-Chloroethoxy) Methane	< 1.0 U	19.5	25.0	78.0%	19.4	25.0	77.6%	0.5%
2,4-Dichlorophenol	< 5.0 U	19.5	25.0	78.0%	19.0	25.0	76.0%	2.6%
1,2,4-Trichlorobenzene	< 1.0 U	16.7	25.0	66.8%	16.4	25.0	65.6%	1.8%
Naphthalene	< 1.0 U	18.3	25.0	73.2%	18.0	25.0	72.0%	1.7%
4-Chloroaniline	< 5.0 U	33.9	60.0	56.5%	39.8	60.0	66.3%	16.0%
Hexachlorobutadiene	< 1.0 U	15.8	25.0	63.2%	14.9	25.0	59.6%	5.9%
4-Chloro-3-methylphenol	< 5.0 U	21.1	25.0	84.4%	20.8	25.0	83.2%	1.4%
2-Methylnaphthalene	< 1.0 U	19.7	25.0	78.8%	19.0	25.0	76.0%	3.6%
Hexachlorocyclopentadiene	< 5.0 U	38.4	75.0	51.2%	36.6	75.0	48.8%	4.8%
2,4,6-Trichlorophenol	< 5.0 U	21.6	25.0	86.4%	20.9	25.0	83.6%	3.3%
2,4,5-Trichlorophenol	< 5.0 U	20.8	25.0	83.2%	19.8	25.0	79.2%	4.9%
2-Chloronaphthalene	< 1.0 U	19.4	25.0	77.6%	18.4	25.0	73.6%	5.3%
2-Nitroaniline	< 5.0 U	20.6	25.0	82.4%	19.8	25.0	79.2%	4.0%
Dimethylphthalate	< 1.0 U	21.8	25.0	87.2%	21.0	25.0	84.0%	3.7%
Acenaphthylene	< 1.0 U	20.7	25.0	82.8%	19.7	25.0	78.8%	5.0%
3-Nitroaniline	< 5.0 U	50.2	64.0	78.4%	49.2	64.0	76.9%	2.0%
Acenaphthene	< 1.0 U	20.1	25.0	80.4%	19.2	25.0	76.8%	4.6%
2,4-Dinitrophenol	< 10.0 U	66.9	75.0	89.2%	64.8	75.0	86.4%	3.2%
4-Nitrophenol	< 5.0 U	25.7	25.0	103%	23.8	25.0	95.2%	7.7%
Dibenzofuran	< 1.0 U	20.6	25.0	82.4%	19.8	25.0	79.2%	4.0%
2,6-Dinitrotoluene	< 5.0 U	21.8	25.0	87.2%	21.2	25.0	84.8%	2.8%
2,4-Dinitrotoluene	< 5.0 U	22.6	25.0	90.4%	21.7	25.0	86.8%	4.1%
Diethylphthalate	< 1.0 U	23.2	25.0	92.8%	22.3	25.0	89.2%	4.0%
4-Chlorophenyl-phenylether	< 1.0 U	21.6	25.0	86.4%	20.8	25.0	83.2%	3.8%
Fluorene	< 1.0 U	21.6	25.0	86.4%	20.5	25.0	82.0%	5.2%
4-Nitroaniline	< 5.0 U	21.2	25.0	84.8%	20.8	25.0	83.2%	1.9%
4,6-Dinitro-2-Methylphenol	< 10.0 U	62.0	75.0	82.7%	60.1	75.0	80.1%	3.1%
N-Nitrosodiphenylamine	< 1.0 U	22.3	25.0	89.2%	20.8	25.0	83.2%	7.0%

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Semivolatiles by SW8270D GC/MS
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Sample ID: MW-10
MS/MSD

Lab Sample ID: MI25E
LIMS ID: 08-2489
Matrix: Water
Date Analyzed: 02/13/08 17:15

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
4-Bromophenyl-phenylether	< 1.0 U	19.7	25.0	78.8%	19.4	25.0	77.6%	1.5%
Hexachlorobenzene	< 1.0 U	19.3	25.0	77.2%	18.8	25.0	75.2%	2.6%
Pentachlorophenol	< 5.0 U	21.9	25.0	87.6%	21.2	25.0	84.8%	3.2%
Phenanthrene	< 1.0 U	20.2	25.0	80.8%	19.4	25.0	77.6%	4.0%
Carbazole	< 1.0 U	22.0	25.0	88.0%	21.3	25.0	85.2%	3.2%
Anthracene	< 1.0 U	19.8	25.0	79.2%	18.7	25.0	74.8%	5.7%
Di-n-Butylphthalate	< 1.0 U	23.4	25.0	93.6%	22.7	25.0	90.8%	3.0%
Fluoranthene	< 1.0 U	22.5	25.0	90.0%	21.9	25.0	87.6%	2.7%
Pyrene	< 1.0 U	20.6	25.0	82.4%	19.6	25.0	78.4%	5.0%
Butylbenzylphthalate	< 1.0 U	21.9	25.0	87.6%	20.9	25.0	83.6%	4.7%
3,3'-Dichlorobenzidine	< 5.0 U	< 5.0 U	64.0	NA	< 5.0 U	64.0	NA	NA
Benzo(a)anthracene	< 1.0 U	20.6	25.0	82.4%	19.7	25.0	78.8%	4.5%
bis(2-Ethylhexyl)phthalate	< 1.0 U	23.1	25.0	92.4%	22.2	25.0	88.8%	4.0%
Chrysene	< 1.0 U	20.2	25.0	80.8%	19.3	25.0	77.2%	4.6%
Di-n-Octyl phthalate	< 1.0 U	20.7	25.0	82.8%	19.7	25.0	78.8%	5.0%
Benzo(b)fluoranthene	< 1.0 U	22.1	25.0	88.4%	21.9	25.0	87.6%	0.9%
Benzo(k)fluoranthene	< 1.0 U	20.1	25.0	80.4%	18.7	25.0	74.8%	7.2%
Benzo(a)pyrene	< 1.0 U	21.8	25.0	87.2%	20.7	25.0	82.8%	5.2%
Indeno(1,2,3-cd)pyrene	< 1.0 U	19.3	25.0	77.2%	18.4	25.0	73.6%	4.8%
Dibenz(a,h)anthracene	< 1.0 U	20.1	25.0	80.4%	19.2	25.0	76.8%	4.6%
Benzo(g,h,i)perylene	< 1.0 U	18.4	25.0	73.6%	17.3	25.0	69.2%	6.2%
1-Methylnaphthalene	< 1.0 U	20.3	25.0	81.2%	19.6	25.0	78.4%	3.5%

Results reported in µg/L

NA-No recovery due to high concentration of analyte in original sample and/or calculated negative recovery.

RPD calculated using sample concentrations per SW846.

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Sample ID: MW-6
SAMPLE



Lab Sample ID: MI25F
LIMS ID: 08-2490
Matrix: Water
Data Release Authorized:
Reported: 02/15/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
NA
Date Sampled: 02/07/08
Date Received: 02/08/08

Date Extracted: 02/11/08
Date Analyzed: 02/13/08 18:24
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U



Lab Sample ID: MI25F
 LIMS ID: 08-2490
 Matrix: Water
 Date Analyzed: 02/13/08 18:24

QC Report No: MI25-Parametrix, Inc.
 Project: Yakima Resources (YR)
 NA

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo (a) anthracene	1.0	< 1.0 U
117-81-7	bis (2-Ethylhexyl) phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo (b) fluoranthene	1.0	< 1.0 U
207-08-9	Benzo (k) fluoranthene	1.0	< 1.0 U
50-32-8	Benzo (a) pyrene	1.0	< 1.0 U
193-39-5	Indeno (1,2,3-cd) pyrene	1.0	< 1.0 U
53-70-3	Dibenz (a,h) anthracene	1.0	< 1.0 U
191-24-2	Benzo (g,h,i) perylene	1.0	< 1.0 U
90-12-0	1-Methylnaphthalene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	70.4%	2-Fluorobiphenyl	71.6%
d14-p-Terphenyl	75.6%	d4-1,2-Dichlorobenzene	68.8%
d5-Phenol	70.9%	2-Fluorophenol	69.1%
2,4,6-Tribromophenol	78.1%	d4-2-Chlorophenol	73.9%

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Semivolatiles by SW8270D GC/MS
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Sample ID: MW-5
SAMPLE



Lab Sample ID: MI25G

QC Report No: MI25-Parametrix, Inc.

LIMS ID: 08-2491

Project: Yakima Resources (YR)

Matrix: Water

NA

Data Release Authorized:

Date Sampled: 02/07/08

Reported: 02/15/08

Date Received: 02/08/08

Date Extracted: 02/11/08

Sample Amount: 500 mL

Date Analyzed: 02/13/08 18:59

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/LJR

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

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Semivolatiles by SW8270D GC/MS
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Sample ID: MW-5
SAMPLE

Lab Sample ID: MI25G
LIMS ID: 08-2491
Matrix: Water
Date Analyzed: 02/13/08 18:59

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
NA

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo (a) anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	1.0
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo (b) fluoranthene	1.0	< 1.0 U
207-08-9	Benzo (k) fluoranthene	1.0	< 1.0 U
50-32-8	Benzo (a) pyrene	1.0	< 1.0 U
193-39-5	Indeno (1,2,3-cd) pyrene	1.0	< 1.0 U
53-70-3	Dibenz (a,h) anthracene	1.0	< 1.0 U
191-24-2	Benzo (g,h,i) perylene	1.0	< 1.0 U
90-12-0	1-Methylnaphthalene	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	69.2%	2-Fluorobiphenyl	69.6%
d14-p-Terphenyl	72.0%	d4-1,2-Dichlorobenzene	66.8%
d5-Phenol	68.3%	2-Fluorophenol	66.9%
2,4,6-Tribromophenol	74.7%	d4-2-Chlorophenol	71.7%

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Semivolatiles by SW8270D GC/MS
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Sample ID: LCS-021108
LCS/LCSD

Lab Sample ID: LCS-021108
LIMS ID: 08-2485
Matrix: Water
Data Release Authorized:
Reported: 02/15/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
Date Sampled: 02/05/08
Date Received: 02/08/08

Date Extracted LCS/LCSD: 02/11/08

Sample Amount LCS: 500 mL
LCSD: 500 mL

Date Analyzed LCS: 02/13/08 10:50
LCSD: 02/13/08 11:25

Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL

Instrument/Analyst LCS: NT6/LJR
LCSD: NT6/LJR

Dilution Factor LCS: 1.00
LCSD: 1.00

GPC Cleanup: NO

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	17.9	25.0	71.6%	19.0	25.0	76.0%	6.0%
Bis-(2-Chloroethyl) Ether	19.4	25.0	77.6%	21.2	25.0	84.8%	8.9%
2-Chlorophenol	19.7	25.0	78.8%	21.6	25.0	86.4%	9.2%
1,3-Dichlorobenzene	14.2	25.0	56.8%	14.6	25.0	58.4%	2.8%
1,4-Dichlorobenzene	14.2	25.0	56.8%	14.9	25.0	59.6%	4.8%
Benzyl Alcohol	34.2	50.0	68.4%	36.9	50.0	73.8%	7.6%
1,2-Dichlorobenzene	14.8	25.0	59.2%	15.5	25.0	62.0%	4.6%
2-Methylphenol	19.1	25.0	76.4%	21.0	25.0	84.0%	9.5%
2,2'-Oxybis(1-Chloropropane)	18.1	25.0	72.4%	19.9	25.0	79.6%	9.5%
4-Methylphenol	38.5	50.0	77.0%	41.9	50.0	83.8%	8.5%
N-Nitroso-Di-N-Propylamine	18.9	25.0	75.6%	20.8	25.0	83.2%	9.6%
Hexachloroethane	13.2	25.0	52.8%	13.3	25.0	53.2%	0.8%
Nitrobenzene	18.7	25.0	74.8%	20.7	25.0	82.8%	10.2%
Isophorone	21.4	25.0	85.6%	23.5	25.0	94.0%	9.4%
2-Nitrophenol	19.3	25.0	77.2%	21.2	25.0	84.8%	9.4%
2,4-Dimethylphenol	11.0	25.0	44.0%	13.7	25.0	54.8%	21.9%
Benzoic Acid	52.2	75.0	69.6%	56.5	75.0	75.3%	7.9%
bis(2-Chloroethoxy) Methane	19.6	25.0	78.4%	21.2	25.0	84.8%	7.8%
2,4-Dichlorophenol	18.9	25.0	75.6%	21.2	25.0	84.8%	11.5%
1,2,4-Trichlorobenzene	14.8	25.0	59.2%	15.8	25.0	63.2%	6.5%
Naphthalene	17.1	25.0	68.4%	18.8	25.0	75.2%	9.5%
4-Chloroaniline	44.9	60.0	74.8%	< 5.0	60.0	NA%	NA
Hexachlorobutadiene	13.2	25.0	52.8%	13.8	25.0	55.2%	4.4%
4-Chloro-3-methylphenol	20.4	25.0	81.6%	22.2	25.0	88.8%	8.5%
2-Methylnaphthalene	18.1	25.0	72.4%	19.7	25.0	78.8%	8.5%
Hexachlorocyclopentadiene	26.4	75.0	35.2%	32.0	75.0	42.7%	19.2%
2,4,6-Trichlorophenol	21.0	25.0	84.0%	22.9	25.0	91.6%	8.7%
2,4,5-Trichlorophenol	20.2	25.0	80.8%	21.8	25.0	87.2%	7.6%
2-Chloronaphthalene	18.2	25.0	72.8%	19.6	25.0	78.4%	7.4%
2-Nitroaniline	20.3	25.0	81.2%	21.4	25.0	85.6%	5.3%
Dimethylphthalate	21.2	25.0	84.8%	22.6	25.0	90.4%	6.4%
Acenaphthylene	20.2	25.0	80.8%	21.6	25.0	86.4%	6.7%
3-Nitroaniline	57.0	64.0	89.1%	21.9	64.0	34.2%	89.0%
Acenaphthene	19.4	25.0	77.6%	20.9	25.0	83.6%	7.4%
2,4-Dinitrophenol	62.9	75.0	83.9%	66.8	75.0	89.1%	6.0%
4-Nitrophenol	22.8	25.0	91.2%	23.6	25.0	94.4%	3.4%
Dibenzofuran	20.0	25.0	80.0%	21.5	25.0	86.0%	7.2%
2,6-Dinitrotoluene	21.0	25.0	84.0%	22.2	25.0	88.8%	5.6%
2,4-Dinitrotoluene	21.6	25.0	86.4%	22.8	25.0	91.2%	5.4%
Diethylphthalate	22.3	25.0	89.2%	23.6	25.0	94.4%	5.7%
4-Chlorophenyl-phenylether	20.7	25.0	82.8%	22.2	25.0	88.8%	7.0%
Fluorene	20.9	25.0	83.6%	22.0	25.0	88.0%	5.1%
4-Nitroaniline	21.5	25.0	86.0%	16.2	25.0	64.8%	28.1%
4,6-Dinitro-2-Methylphenol	58.2	75.0	77.6%	65.1	75.0	86.8%	11.2%
N-Nitrosodiphenylamine	23.9	25.0	95.6%	25.3	25.0	101%	5.7%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: LCS-021108
LCS/LCSD

Lab Sample ID: LCS-021108
LIMS ID: 08-2485
Matrix: Water
Date Analyzed: 02/13/08 10:50

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
4-Bromophenyl-phenylether	19.4	25.0	77.6%	21.4	25.0	85.6%	9.8%
Hexachlorobenzene	18.8	25.0	75.2%	20.8	25.0	83.2%	10.1%
Pentachlorophenol	20.1	25.0	80.4%	22.2	25.0	88.8%	9.9%
Phenanthrene	19.4	25.0	77.6%	21.4	25.0	85.6%	9.8%
Carbazole	20.9	25.0	83.6%	22.8	25.0	91.2%	8.7%
Anthracene	19.3	25.0	77.2%	21.5	25.0	86.0%	10.8%
Di-n-Butylphthalate	22.6	25.0	90.4%	24.4	25.0	97.6%	7.7%
Fluoranthene	21.2	25.0	84.8%	23.0	25.0	92.0%	8.1%
Pyrene	20.6	25.0	82.4%	21.8	25.0	87.2%	5.7%
Butylbenzylphthalate	21.8	25.0	87.2%	22.9	25.0	91.6%	4.9%
3,3'-Dichlorobenzidine	45.0	64.0	70.3%	6.1	64.0	9.5%	152%
Benzo(a)anthracene	19.4	25.0	77.6%	21.4	25.0	85.6%	9.8%
bis(2-Ethylhexyl)phthalate	22.5	25.0	90.0%	23.8	25.0	95.2%	5.6%
Chrysene	20.1	25.0	80.4%	21.4	25.0	85.6%	6.3%
Di-n-Octyl phthalate	20.2	25.0	80.8%	22.1	25.0	88.4%	9.0%
Benzo(b)fluoranthene	21.3	25.0	85.2%	22.9	25.0	91.6%	7.2%
Benzo(k)fluoranthene	19.4	25.0	77.6%	21.6	25.0	86.4%	10.7%
Benzo(a)pyrene	20.4	25.0	81.6%	22.3	25.0	89.2%	8.9%
Indeno(1,2,3-cd)pyrene	17.7	25.0	70.8%	19.1	25.0	76.4%	7.6%
Dibenz(a,h)anthracene	17.9	25.0	71.6%	19.5	25.0	78.0%	8.6%
Benzo(g,h,i)perylene	16.9	25.0	67.6%	18.1	25.0	72.4%	6.9%
1-Methylnaphthalene	18.6	25.0	74.4%	20.3	25.0	81.2%	8.7%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	78.0%	84.8%
2-Fluorobiphenyl	78.8%	82.8%
d14-p-Terphenyl	85.2%	88.4%
d4-1,2-Dichlorobenzene	70.4%	76.0%
d5-Phenol	80.0%	85.1%
2-Fluorophenol	76.8%	83.5%
2,4,6-Tribromophenol	84.3%	86.7%
d4-2-Chlorophenol	81.9%	87.2%

Results reported in $\mu\text{g/L}$
RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MB-021108
METHOD BLANK

Lab Sample ID: MB-021108
LIMS ID: 08-2489
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 02/18/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
Date Sampled: NA
Date Received: NA

Date Extracted: 02/11/08
Date Analyzed: 02/14/08 13:45
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	85.5%
Tetrachlorometaxylene	88.0%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-1
SAMPLE

Lab Sample ID: MI25A
LIMS ID: 08-2485
Matrix: Water
Data Release Authorized: 
Reported: 02/18/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)

Date Sampled: 02/05/08
Date Received: 02/08/08

Date Extracted: 02/11/08
Date Analyzed: 02/14/08 14:19
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	80.2%
Tetrachlorometaxylene	86.5%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-10
SAMPLE

Lab Sample ID: MI25E
LIMS ID: 08-2489
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 02/18/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
Date Sampled: 02/06/08
Date Received: 02/08/08

Date Extracted: 02/11/08
Date Analyzed: 02/14/08 15:28
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	80.8%
Tetrachlorometaxylene	67.8%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-10
MATRIX SPIKE

Lab Sample ID: MI25E
LIMS ID: 08-2489
Matrix: Water
Data Release Authorized: 
Reported: 02/18/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
Date Sampled: 02/06/08
Date Received: 02/08/08

Date Extracted: 02/11/08
Date Analyzed: 02/14/08 15:45
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	---
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	---
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	87.8%
Tetrachlorometaxylene	73.0%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-10
MATRIX SPIKE DUP

Lab Sample ID: MI25E
LIMS ID: 08-2489
Matrix: Water
Data Release Authorized: 
Reported: 02/18/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)

Date Sampled: 02/06/08
Date Received: 02/08/08

Date Extracted: 02/11/08
Date Analyzed: 02/14/08 16:02
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	---
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	---
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	90.5%
Tetrachlorometaxylene	75.2%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-10
MS/MSD

Lab Sample ID: MI25E
LIMS ID: 08-2489
Matrix: Water

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)

Data Release Authorized: 
Reported: 02/18/08

Date Sampled: 02/06/08
Date Received: 02/08/08

Date Extracted MS/MSD: 02/11/08

Sample Amount MS: 500 mL
MSD: 500 mL

Date Analyzed MS: 02/14/08 15:45
MSD: 02/14/08 16:02

Final Extract Volume MS: 5.0 mL
MSD: 5.0 mL

Instrument/Analyst MS: ECD5/PK
MSD: ECD5/PK

Dilution Factor MS: 1.00
MSD: 1.00

GPC Cleanup: No
Sulfur Cleanup: No

Silica Gel: No
Acid Cleanup: No

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 1.00	4.02	5.00	80.4%	4.11	5.00	82.2%	2.2%
Aroclor 1260	< 1.00	4.72	5.00	94.4%	4.90	5.00	98.0%	3.7%

Results reported in $\mu\text{g/L}$
RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-6
SAMPLE

Lab Sample ID: MI25F
LIMS ID: 08-2490
Matrix: Water
Data Release Authorized: *RB*
Reported: 02/18/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)

Date Sampled: 02/07/08
Date Received: 02/08/08

Date Extracted: 02/11/08
Date Analyzed: 02/14/08 16:20
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	89.0%
Tetrachlorometaxylene	73.0%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-5
SAMPLE

Lab Sample ID: MI25G
LIMS ID: 08-2491
Matrix: Water
Data Release Authorized: 
Reported: 02/18/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
Date Sampled: 02/07/08
Date Received: 02/08/08

Date Extracted: 02/11/08
Date Analyzed: 02/14/08 16:37
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	87.0%
Tetrachlorometaxylene	70.8%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LCS-021108
LAB CONTROL

Lab Sample ID: LCS-021108
LIMS ID: 08-2489
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 02/18/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
Date Sampled: NA
Date Received: NA

Date Extracted: 02/11/08
Date Analyzed: 02/14/08 14:02
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	4.38	5.00	87.6%
Aroclor 1260	4.93	5.00	98.6%

PCB Surrogate Recovery

Decachlorobiphenyl	88.0%
Tetrachlorometaxylene	94.5%

Results reported in $\mu\text{g/L}$

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Water

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)

Date Received: 02/08/08

Data Release Authorized:
Reported: 02/14/08 *AS*

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MI25A 08-2485	MW-1 HC ID: ---	02/11/08	02/12/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	< 0.25 U < 0.50 U 89.3%
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
MB-021108 08-2489	Method Blank HC ID: ---	02/11/08	02/12/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	< 0.25 U < 0.50 U 85.8%
MI25E 08-2489	MW-10 HC ID: ---	02/11/08	02/12/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	< 0.25 U < 0.50 U 92.7%
MI25F 08-2490	MW-6 HC ID: ---	02/11/08	02/12/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	< 0.25 U < 0.50 U 94.0%
MI25G 08-2491	MW-5 HC ID: ---	02/11/08	02/12/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	< 0.25 U < 0.50 U 94.7%

Reported in mg/L (ppm).

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.



ORGANICS ANALYSIS DATA SHEET
 NWTPHD by GC/FID
 Page 1 of 1

Sample ID: MW-10
 MS/MSD

Lab Sample ID: MI25E
 LIMS ID: 08-2489
 Matrix: Water
 Data Release Authorized:
 Reported: 02/14/08

QC Report No: MI25-Parametrix, Inc.
 Project: Yakima Resources (YR)
 Date Sampled: 02/06/08
 Date Received: 02/08/08

Date Extracted MS/MSD: 02/11/08
 Date Analyzed MS: 02/12/08 14:20
 MSD: 02/12/08 14:35
 Instrument/Analyst MS: FID3A/MS
 MSD: FID3A/MS

Sample Amount MS: 500 mL
 MSD: 500 mL
 Final Extract Volume MS: 1.0 mL
 MSD: 1.0 mL
 Dilution Factor MS: 1.00
 MSD: 1.00

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	< 0.25 U	2.65	3.00	88.3%	2.71	3.00	90.3%	2.2%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	90.2%	86.4%

Results reported in mg/L
 RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID

Page 1 of 1

Sample ID: LCS-021108

LAB CONTROL

Lab Sample ID: LCS-021108

LIMS ID: 08-2489

Matrix: Water

Data Release Authorized: 

Reported: 02/14/08

QC Report No: MI25-Parametrix, Inc.

Project: Yakima Resources (YR)

Date Sampled: NA

Date Received: NA

Date Extracted: 02/11/08

Date Analyzed: 02/12/08 12:00

Instrument/Analyst: FID3A/MS

Sample Amount: 500 mL

Final Extract Volume: 1.0 mL

Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	2.73	3.00	91.0%

TPHD Surrogate Recovery

o-Terphenyl	93.1%
-------------	-------

Results reported in mg/L

METHOD BLANK RESULTS-CONVENTIONAL
MI25-Parametrix, Inc.



Matrix: Water
Data Release Authorized: 
Reported: 02/21/08

Project: Yakima Resources (YR)
Event: NA
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank
Total Dissolved Solids	EPA 160.1	02/11/08	mg/L	< 5.0 U
Chloride	EPA 325.2	02/12/08	mg/L	< 1.0 U
N-Ammonia	EPA 350.1M	02/15/08	mg-N/L	< 0.010 U
N-Nitrite	EPA 353.2	02/08/08	mg-N/L	< 0.010 U
Nitrate + Nitrite	EPA 353.2	02/08/08	mg-N/L	< 0.010 U
Sulfate	EPA 375.2	02/20/08	mg/L	< 2.0 U
Total Organic Carbon	EPA 415.1	02/11/08	mg/L	< 1.50 U

SAMPLE RESULTS-CONVENTIONALS
MI25-Parametrix, Inc.



Matrix: Water
Data Release Authorized: 
Reported: 02/21/08

Project: Yakima Resources (YR)
Event: NA
Date Sampled: 02/05/08
Date Received: 02/08/08

Client ID: MW-1
ARI ID: 08-2485 MI25A

Analyte	Date Batch	Method	Units	RL	Sample
pH	02/08/08 020808#1	EPA 150.1	std units	0.01	6.72
Alkalinity	02/12/08 021208#2	SM 2320	mg/L CaCO3	1.0	99.5
Carbonate	02/12/08	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Bicarbonate	02/12/08	SM 2320	mg/L CaCO3	1.0	99.5
Hydroxide	02/12/08	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Total Dissolved Solids	02/11/08 021108#1	EPA 160.1	mg/L	5.0	161
Chloride	02/12/08 021208#2	EPA 325.2	mg/L	1.0	8.9
N-Ammonia	02/15/08 021508#1	EPA 350.1M	mg-N/L	0.010	0.044
N-Nitrate	02/08/08	Calculated	mg-N/L	0.050	1.25
N-Nitrite	02/08/08 020808#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite	02/08/08 020808#1	EPA 353.2	mg-N/L	0.050	1.25
Sulfate	02/20/08 022008#1	EPA 375.2	mg/L	2.0	10.2
Total Organic Carbon	02/11/08 021108#1	EPA 415.1	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
MI25-Parametrix, Inc.



Matrix: Water
Data Release Authorized: 
Reported: 02/21/08

Project: Yakima Resources (YR)
Event: NA
Date Sampled: 02/06/08
Date Received: 02/08/08

Client ID: MW-10
ARI ID: 08-2489 MI25E

Analyte	Date Batch	Method	Units	RL	Sample
pH	02/08/08 020808#1	EPA 150.1	std units	0.01	6.81
Alkalinity	02/12/08 021208#2	SM 2320	mg/L CaCO3	1.0	283
Carbonate	02/12/08	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Bicarbonate	02/12/08	SM 2320	mg/L CaCO3	1.0	283
Hydroxide	02/12/08	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Total Dissolved Solids	02/11/08 021108#1	EPA 160.1	mg/L	10.0	361
Chloride	02/12/08 021208#2	EPA 325.2	mg/L	2.0	14.8
N-Ammonia	02/15/08 021508#1	EPA 350.1M	mg-N/L	0.010	0.965
N-Nitrate	02/08/08	Calculated	mg-N/L	0.050	< 0.050 U
N-Nitrite	02/08/08 020808#1	EPA 353.2	mg-N/L	0.050	< 0.050 U
Nitrate + Nitrite	02/08/08 020808#1	EPA 353.2	mg-N/L	0.050	< 0.050 U
Sulfate	02/20/08 022008#1	EPA 375.2	mg/L	2.0	8.9
Total Organic Carbon	02/11/08 021108#1	EPA 415.1	mg/L	1.50	9.17

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
 MI25-Parametrix, Inc.



Matrix: Water
 Data Release Authorized: *[Signature]*
 Reported: 02/21/08

Project: Yakima Resources (YR)
 Event: NA
 Date Sampled: 02/07/08
 Date Received: 02/08/08

Client ID: MW-6
 ARI ID: 08-2490 MI25F

Analyte	Date Batch	Method	Units	RL	Sample
pH	02/08/08 020808#1	EPA 150.1	std units	0.01	6.64
Alkalinity	02/12/08 021208#2	SM 2320	mg/L CaCO3	1.0	194
Carbonate	02/12/08	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Bicarbonate	02/12/08	SM 2320	mg/L CaCO3	1.0	194
Hydroxide	02/12/08	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Total Dissolved Solids	02/11/08 021108#1	EPA 160.1	mg/L	5.0	253
Chloride	02/12/08 021208#2	EPA 325.2	mg/L	5.0	14.2
N-Ammonia	02/15/08 021508#1	EPA 350.1M	mg-N/L	0.010	0.720
N-Nitrate	02/08/08	Calculated	mg-N/L	0.050	0.077
N-Nitrite	02/08/08 020808#1	EPA 353.2	mg-N/L	0.050	< 0.050 U
Nitrate + Nitrite	02/08/08 020808#1	EPA 353.2	mg-N/L	0.050	0.077
Sulfate	02/20/08 022008#1	EPA 375.2	mg/L	2.0	5.1
Total Organic Carbon	02/11/08 021108#1	EPA 415.1	mg/L	1.50	7.22

RL Analytical reporting limit
 U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
MI25-Parametrix, Inc.



Matrix: Water
Data Release Authorized
Reported: 02/21/08

A handwritten signature in black ink, appearing to be 'CJ', is written over the 'Data Release Authorized' text.

Project: Yakima Resources (YR)
Event: NA
Date Sampled: 02/07/08
Date Received: 02/08/08

Client ID: MW-5
ARI ID: 08-2491 MI25G

Analyte	Date Batch	Method	Units	RL	Sample
pH	02/08/08 020808#1	EPA 150.1	std units	0.01	6.99
Alkalinity	02/12/08 021208#2	SM 2320	mg/L CaCO3	1.0	196
Carbonate	02/12/08	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Bicarbonate	02/12/08	SM 2320	mg/L CaCO3	1.0	196
Hydroxide	02/12/08	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Total Dissolved Solids	02/11/08 021108#1	EPA 160.1	mg/L	5.0	278
Chloride	02/12/08 021208#2	EPA 325.2	mg/L	2.0	13.1
N-Ammonia	02/15/08 021508#1	EPA 350.1M	mg-N/L	0.010	0.951
N-Nitrate	02/08/08	Calculated	mg-N/L	0.050	< 0.050 U
N-Nitrite	02/08/08 020808#1	EPA 353.2	mg-N/L	0.050	< 0.050 U
Nitrate + Nitrite	02/08/08 020808#1	EPA 353.2	mg-N/L	0.050	< 0.050 U
Sulfate	02/20/08 022008#1	EPA 375.2	mg/L	2.0	13.5
Total Organic Carbon	02/11/08 021108#1	EPA 415.1	mg/L	1.50	8.25

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
 MI25-Parametrix, Inc.



Matrix: Water
 Data Release Authorized *[Signature]*
 Reported: 02/21/08

Project: Yakima Resources (YR)
 Event: NA
 Date Sampled: 02/05/08
 Date Received: 02/08/08

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: MI25A Client ID: MW-1						
pH	EPA 150.1	02/08/08	std units	6.72	6.73	0.01
Chloride	EPA 325.2	02/12/08	mg/L	8.9	8.9	0.0%
N-Nitrite	EPA 353.2	02/08/08	mg-N/L	< 0.010	0.010	NA
Nitrate + Nitrite	EPA 353.2	02/08/08	mg-N/L	1.25	1.25	0.0%
Sulfate	EPA 375.2	02/20/08	mg/L	10.2	10.4	1.9%

[Redacted Section]

ARI ID: MI25E Client ID: MW-10						
Alkalinity	SM 2320	02/12/08	mg/L CaCO3	283	283	0.0%
Carbonate	SM 2320	02/12/08	mg/L CaCO3	< 1.0	< 1.0	NA
Bicarbonate	SM 2320	02/12/08	mg/L CaCO3	283	283	0.0%
Hydroxide	SM 2320	02/12/08	mg/L CaCO3	< 1.0	< 1.0	NA
N-Ammonia	EPA 350.1M	02/15/08	mg-N/L	0.965	0.992	2.8%
Total Organic Carbon	EPA 415.1	02/11/08	mg/L	9.17	9.32	1.6%

pH is evaluated as the Absolute Difference between the values rather than Relative Percent Difference

MS/MSD RESULTS-CONVENTIONALS
MI25-Parametrix, Inc.



Matrix: Water
Data Release Authorized
Reported: 02/21/08

A handwritten signature in black ink, appearing to be 'R. J. ...', written over the 'Data Release Authorized' text.

Project: Yakima Resources (YR)
Event: NA
Date Sampled: 02/05/08
Date Received: 02/08/08

Analyte	Method	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: MI25A Client ID: MW-1							
Chloride	EPA 325.2	02/12/08	mg/L	8.9	34.1	25.0	100.8%
N-Nitrite	EPA 353.2	02/08/08	mg-N/L <	0.010	0.519	0.500	103.8%
Nitrate + Nitrite	EPA 353.2	02/08/08	mg-N/L	1.25	6.32	5.00	101.4%
Sulfate	EPA 375.2	02/20/08	mg/L	10.2	34.1	20.0	119.5%
ARI ID: MI25E Client ID: MW-10							
N-Ammonia	EPA 350.1M	02/15/08	mg-N/L	0.965	3.79	2.50	113.0%
Total Organic Carbon	EPA 415.1	02/11/08	mg/L	9.17	29.1	20.0	99.6%

LAB CONTROL RESULTS-CONVENTIONALS
MI25-Parametrix, Inc.



Matrix: Water
Data Release Authorized: 
Reported: 02/21/08

Project: Yakima Resources (YR)
Event: NA
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	LCS	Spike Added	Recovery
pH	EPA 150.1	02/08/08	std units	7.01	7.00	0.01
Total Dissolved Solids	EPA 160.1	02/11/08	mg/L	521	500	104.2%

pH is evaluated as the Absolute Difference between the values rather than Percent Recovery.

STANDARD REFERENCE RESULTS-CONVENTIONALS
MI25-Parametrix, Inc.



Matrix: Water
Data Release Authorized: 
Reported: 02/21/08

Project: Yakima Resources (YR)
Event: NA
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Alkalinity ERA #P114506	SM 2320	02/12/08	mg/L CaCO3	40.7	42.3	96.2%
Chloride ERA #38084	EPA 325.2	02/12/08	mg/L	4.9	5.0	98.0%
N-Ammonia ERA #15125	EPA 350.1M	02/15/08	mg-N/L	0.459	0.500	91.8%
N-Nitrite ERA #23034	EPA 353.2	02/08/08	mg-N/L	0.498	0.500	99.6%
Nitrate + Nitrite ERA #20034	EPA 353.2	02/08/08	mg-N/L	0.506	0.500	101.2%
Sulfate ERA #37065	EPA 375.2	02/20/08	mg/L	27.2	25.0	108.8%
Total Organic Carbon SPEX #1-8JGB	EPA 415.1	02/11/08	mg/L	19.9	20.0	99.5%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: MI25MB

LIMS ID: 08-2490

Matrix: Water

Data Release Authorized: 

Reported: 02/20/08

QC Report No: MI25-Parametrix, Inc.

Project: Yakima Resources (YR)

Date Sampled: NA

Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	02/14/08	6010B	02/18/08	7440-38-2	Arsenic	0.05	0.05	U
3010A	02/14/08	6010B	02/18/08	7440-39-3	Barium	0.003	0.003	U
3010A	02/14/08	6010B	02/18/08	7440-43-9	Cadmium	0.002	0.002	U
3010A	02/14/08	6010B	02/18/08	7440-70-2	Calcium	0.05	0.05	U
3010A	02/14/08	6010B	02/18/08	7440-47-3	Chromium	0.005	0.005	U
3010A	02/14/08	6010B	02/18/08	7439-89-6	Iron	0.05	0.05	U
3010A	02/14/08	6010B	02/18/08	7439-92-1	Lead	0.02	0.02	U
3010A	02/14/08	6010B	02/18/08	7439-96-5	Manganese	0.001	0.001	U
7470A	02/14/08	7470A	02/15/08	7439-97-6	Mercury	0.0001	0.0001	U
3010A	02/14/08	6010B	02/18/08	7440-09-7	Potassium	0.5	0.5	U
3010A	02/14/08	6010B	02/18/08	7782-49-2	Selenium	0.05	0.05	U
3010A	02/14/08	6010B	02/18/08	7440-22-4	Silver	0.003	0.003	U
3010A	02/14/08	6010B	02/18/08	7440-23-5	Sodium	0.5	0.5	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MW-1
SAMPLE

Lab Sample ID: MI25A

LIMS ID: 08-2485

Matrix: Water

Data Release Authorized: 

Reported: 02/20/08

QC Report No: MI25-Parametrix, Inc.

Project: Yakima Resources (YR)

Date Sampled: 02/05/08

Date Received: 02/08/08

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	02/14/08	6010B	02/18/08	7440-38-2	Arsenic	0.05	0.05	U
3010A	02/14/08	6010B	02/18/08	7440-39-3	Barium	0.003	0.018	
3010A	02/14/08	6010B	02/18/08	7440-43-9	Cadmium	0.002	0.002	U
3010A	02/14/08	6010B	02/18/08	7440-70-2	Calcium	0.05	24.6	
3010A	02/14/08	6010B	02/18/08	7440-47-3	Chromium	0.005	0.005	U
3010A	02/14/08	6010B	02/18/08	7439-89-6	Iron	0.05	1.92	
3010A	02/14/08	6010B	02/18/08	7439-92-1	Lead	0.02	0.02	U
3010A	02/14/08	6010B	02/18/08	7439-96-5	Manganese	0.001	0.247	
7470A	02/14/08	7470A	02/15/08	7439-97-6	Mercury	0.0001	0.0001	U
3010A	02/14/08	6010B	02/18/08	7440-09-7	Potassium	0.5	2.8	
3010A	02/14/08	6010B	02/18/08	7782-49-2	Selenium	0.05	0.05	U
3010A	02/14/08	6010B	02/18/08	7440-22-4	Silver	0.003	0.003	U
3010A	02/14/08	6010B	02/18/08	7440-23-5	Sodium	0.5	12.2	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MW-10

SAMPLE

Lab Sample ID: MI25E

LIMS ID: 08-2489

Matrix: Water

Data Release Authorized: 

Reported: 02/20/08

QC Report No: MI25-Parametrix, Inc.

Project: Yakima Resources (YR)

Date Sampled: 02/06/08

Date Received: 02/08/08

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	02/14/08	6010B	02/18/08	7440-38-2	Arsenic	0.05	0.05	U
3010A	02/14/08	6010B	02/18/08	7440-39-3	Barium	0.003	0.029	
3010A	02/14/08	6010B	02/18/08	7440-43-9	Cadmium	0.002	0.002	U
3010A	02/14/08	6010B	02/18/08	7440-70-2	Calcium	0.05	57.0	
3010A	02/14/08	6010B	02/18/08	7440-47-3	Chromium	0.005	0.005	U
3010A	02/14/08	6010B	02/18/08	7439-89-6	Iron	0.05	8.84	
3010A	02/14/08	6010B	02/18/08	7439-92-1	Lead	0.02	0.02	U
3010A	02/14/08	6010B	02/18/08	7439-96-5	Manganese	0.001	4.79	
7470A	02/14/08	7470A	02/15/08	7439-97-6	Mercury	0.0001	0.0001	U
3010A	02/14/08	6010B	02/18/08	7440-09-7	Potassium	0.5	11.1	
3010A	02/14/08	6010B	02/18/08	7782-49-2	Selenium	0.05	0.05	U
3010A	02/14/08	6010B	02/18/08	7440-22-4	Silver	0.003	0.003	U
3010A	02/14/08	6010B	02/18/08	7440-23-5	Sodium	0.5	26.1	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MW-10

DUPLICATE

Lab Sample ID: MI25E

LIMS ID: 08-2489

Matrix: Water

Data Release Authorized: 

Reported: 02/20/08

QC Report No: MI25-Parametrix, Inc.

Project: Yakima Resources (YR)

Date Sampled: 02/06/08

Date Received: 02/08/08

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	0.05 U	0.05 U	0.0%	+/- 0.05	L
Barium	6010B	0.029	0.027	7.1%	+/- 20%	
Cadmium	6010B	0.002 U	0.002 U	0.0%	+/- 0.002	L
Calcium	6010B	57.0	52.4	8.4%	+/- 20%	
Chromium	6010B	0.005 U	0.005 U	0.0%	+/- 0.005	L
Iron	6010B	8.84	8.19	7.6%	+/- 20%	
Lead	6010B	0.02 U	0.02 U	0.0%	+/- 0.02	L
Manganese	6010B	4.79	4.42	8.0%	+/- 20%	
Mercury	7470A	0.0001 U	0.0001 U	0.0%	+/- 0.0001	L
Potassium	6010B	11.1	10.4	6.5%	+/- 20%	
Selenium	6010B	0.05 U	0.05 U	0.0%	+/- 0.05	L
Silver	6010B	0.003 U	0.003 U	0.0%	+/- 0.003	L
Sodium	6010B	26.1	24.2	7.6%	+/- 20%	

Reported in mg/L

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: MW-10
MATRIX SPIKE

Lab Sample ID: MI25E
LIMS ID: 08-2489
Matrix: Water
Data Release Authorized: 
Reported: 02/20/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)

Date Sampled: 02/06/08
Date Received: 02/08/08

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	0.05 U	1.98	2.00	99.0%	
Barium	6010B	0.029	1.91	2.00	94.0%	
Cadmium	6010B	0.002 U	0.487	0.500	97.4%	
Calcium	6010B	57.0	66.1	10.0	91.0%	H
Chromium	6010B	0.005 U	0.470	0.500	94.0%	
Iron	6010B	8.84	10.8	2.00	98.0%	H
Lead	6010B	0.02 U	1.89	2.00	94.5%	
Manganese	6010B	4.79	5.16	0.500	74.0%	H
Mercury	7470A	0.0001 U	0.0011	0.0010	110%	
Potassium	6010B	11.1	21.5	10.0	104%	
Selenium	6010B	0.05 U	2.01	2.00	100%	
Silver	6010B	0.003 U	0.502	0.500	100%	
Sodium	6010B	26.1	35.6	10.0	95.0%	

Reported in mg/L

N-Control Limit Not Met

H-% Recovery Not Applicable, Sample Concentration Too High

NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MW-6

SAMPLE

Lab Sample ID: MI25F

LIMS ID: 08-2490

Matrix: Water

Data Release Authorized: 

Reported: 02/20/08

QC Report No: MI25-Parametrix, Inc.

Project: Yakima Resources (YR)

Date Sampled: 02/07/08

Date Received: 02/08/08

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	02/14/08	6010B	02/18/08	7440-38-2	Arsenic	0.05	0.05	U
3010A	02/14/08	6010B	02/18/08	7440-39-3	Barium	0.003	0.045	
3010A	02/14/08	6010B	02/18/08	7440-43-9	Cadmium	0.002	0.002	U
3010A	02/14/08	6010B	02/18/08	7440-70-2	Calcium	0.05	36.0	
3010A	02/14/08	6010B	02/18/08	7440-47-3	Chromium	0.005	0.005	U
3010A	02/14/08	6010B	02/18/08	7439-89-6	Iron	0.05	26.2	
3010A	02/14/08	6010B	02/18/08	7439-92-1	Lead	0.02	0.02	U
3010A	02/14/08	6010B	02/18/08	7439-96-5	Manganese	0.001	2.38	
7470A	02/14/08	7470A	02/15/08	7439-97-6	Mercury	0.0001	0.0001	U
3010A	02/14/08	6010B	02/18/08	7440-09-7	Potassium	0.5	9.8	
3010A	02/14/08	6010B	02/18/08	7782-49-2	Selenium	0.05	0.05	U
3010A	02/14/08	6010B	02/18/08	7440-22-4	Silver	0.003	0.003	U
3010A	02/14/08	6010B	02/18/08	7440-23-5	Sodium	0.5	15.6	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MW-5

SAMPLE

Lab Sample ID: MI25G

LIMS ID: 08-2491

Matrix: Water

Data Release Authorized. 

Reported: 02/20/08

QC Report No: MI25-Parametrix, Inc.

Project: Yakima Resources (YR)

Date Sampled: 02/07/08

Date Received: 02/08/08

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	02/14/08	6010B	02/18/08	7440-38-2	Arsenic	0.05	0.05	U
3010A	02/14/08	6010B	02/18/08	7440-39-3	Barium	0.003	0.062	
3010A	02/14/08	6010B	02/18/08	7440-43-9	Cadmium	0.002	0.002	U
3010A	02/14/08	6010B	02/18/08	7440-70-2	Calcium	0.05	41.0	
3010A	02/14/08	6010B	02/18/08	7440-47-3	Chromium	0.005	0.005	U
3010A	02/14/08	6010B	02/18/08	7439-89-6	Iron	0.05	7.33	
3010A	02/14/08	6010B	02/18/08	7439-92-1	Lead	0.02	0.02	U
3010A	02/14/08	6010B	02/18/08	7439-96-5	Manganese	0.001	0.863	
7470A	02/14/08	7470A	02/15/08	7439-97-6	Mercury	0.0001	0.0001	U
3010A	02/14/08	6010B	02/18/08	7440-09-7	Potassium	0.5	24.6	
3010A	02/14/08	6010B	02/18/08	7782-49-2	Selenium	0.05	0.05	U
3010A	02/14/08	6010B	02/18/08	7440-22-4	Silver	0.003	0.003	U
3010A	02/14/08	6010B	02/18/08	7440-23-5	Sodium	0.5	18.4	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: MI25LCS
LIMS ID: 08-2490
Matrix: Water
Data Release Authorized: 
Reported: 02/20/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)

Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	1.89	2.00	94.5%	
Barium	6010B	1.85	2.00	92.5%	
Cadmium	6010B	0.479	0.500	95.8%	
Calcium	6010B	9.93	10.0	99.3%	
Chromium	6010B	0.466	0.500	93.2%	
Iron	6010B	2.01	2.00	100%	
Lead	6010B	1.94	2.00	97.0%	
Manganese	6010B	0.463	0.500	92.6%	
Mercury	7470A	0.0020	0.0020	100%	
Potassium	6010B	10.3	10.0	103%	
Selenium	6010B	1.96	2.00	98.0%	
Silver	6010B	0.492	0.500	98.4%	
Sodium	6010B	9.8	10.0	98.0%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: MI25MB
LIMS ID: 08-2498
Matrix: Water
Data Release Authorized: 
Reported: 02/20/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)

Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	02/14/08	6010B	02/18/08	7440-38-2	Arsenic	0.05	0.05	U
6010B	02/14/08	6010B	02/18/08	7440-39-3	Barium	0.003	0.003	U
6010B	02/14/08	6010B	02/18/08	7440-43-9	Cadmium	0.002	0.002	U
6010B	02/14/08	6010B	02/18/08	7440-70-2	Calcium	0.05	0.05	U
6010B	02/14/08	6010B	02/18/08	7440-47-3	Chromium	0.005	0.005	U
6010B	02/14/08	6010B	02/18/08	7439-89-6	Iron	0.05	0.05	U
6010B	02/14/08	6010B	02/18/08	7439-92-1	Lead	0.02	0.02	U
6010B	02/14/08	6010B	02/18/08	7439-96-5	Manganese	0.001	0.001	U
7470A	02/14/08	7470A	02/15/08	7439-97-6	Mercury	0.0001	0.0001	U
6010B	02/14/08	6010B	02/18/08	7440-09-7	Potassium	0.5	0.5	U
6010B	02/14/08	6010B	02/18/08	7782-49-2	Selenium	0.05	0.05	U
6010B	02/14/08	6010B	02/18/08	7440-22-4	Silver	0.003	0.003	U
6010B	02/14/08	6010B	02/18/08	7440-23-5	Sodium	0.5	0.5	U

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-1
SAMPLE

Lab Sample ID: MI25I
LIMS ID: 08-2493
Matrix: Water
Data Release Authorized: 
Reported: 02/20/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)
Date Sampled: 02/05/08
Date Received: 02/08/08

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	02/14/08	6010B	02/18/08	7440-38-2	Arsenic	0.05	0.05	U
6010B	02/14/08	6010B	02/18/08	7440-39-3	Barium	0.003	0.008	
6010B	02/14/08	6010B	02/18/08	7440-43-9	Cadmium	0.002	0.002	U
6010B	02/14/08	6010B	02/18/08	7440-70-2	Calcium	0.05	24.9	
6010B	02/14/08	6010B	02/18/08	7440-47-3	Chromium	0.005	0.005	U
6010B	02/14/08	6010B	02/18/08	7439-89-6	Iron	0.05	0.05	U
6010B	02/14/08	6010B	02/18/08	7439-92-1	Lead	0.02	0.02	U
6010B	02/14/08	6010B	02/18/08	7439-96-5	Manganese	0.001	0.001	U
7470A	02/14/08	7470A	02/15/08	7439-97-6	Mercury	0.0001	0.0001	U
6010B	02/14/08	6010B	02/18/08	7440-09-7	Potassium	0.5	2.8	
6010B	02/14/08	6010B	02/18/08	7782-49-2	Selenium	0.05	0.05	U
6010B	02/14/08	6010B	02/18/08	7440-22-4	Silver	0.003	0.003	U
6010B	02/14/08	6010B	02/18/08	7440-23-5	Sodium	0.5	12.7	

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1

Sample ID: MW-10
SAMPLE

Lab Sample ID: MI25M

LIMS ID: 08-2497

Matrix: Water

Data Release Authorized: 

Reported: 02/20/08

QC Report No: MI25-Parametrix, Inc.

Project: Yakima Resources (YR)

Date Sampled: 02/06/08

Date Received: 02/08/08

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	02/14/08	6010B	02/18/08	7440-38-2	Arsenic	0.05	0.05	U
6010B	02/14/08	6010B	02/18/08	7440-39-3	Barium	0.003	0.029	
6010B	02/14/08	6010B	02/18/08	7440-43-9	Cadmium	0.002	0.002	U
6010B	02/14/08	6010B	02/18/08	7440-70-2	Calcium	0.05	57.4	
6010B	02/14/08	6010B	02/18/08	7440-47-3	Chromium	0.005	0.005	U
6010B	02/14/08	6010B	02/18/08	7439-89-6	Iron	0.05	8.34	
6010B	02/14/08	6010B	02/18/08	7439-92-1	Lead	0.02	0.02	U
6010B	02/14/08	6010B	02/18/08	7439-96-5	Manganese	0.001	4.89	
7470A	02/14/08	7470A	02/15/08	7439-97-6	Mercury	0.0001	0.0001	U
6010B	02/14/08	6010B	02/18/08	7440-09-7	Potassium	0.5	11.5	
6010B	02/14/08	6010B	02/18/08	7782-49-2	Selenium	0.05	0.05	U
6010B	02/14/08	6010B	02/18/08	7440-22-4	Silver	0.003	0.003	U
6010B	02/14/08	6010B	02/18/08	7440-23-5	Sodium	0.5	26.5	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-10
DUPLICATE

Lab Sample ID: MI25M
LIMS ID: 08-2497
Matrix: Water
Data Release Authorized
Reported: 02/20/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)

Date Sampled: 02/06/08
Date Received: 02/08/08



MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	0.05 U	0.05 U	0.0%	+/- 0.05	L
Barium	6010B	0.029	0.029	0.0%	+/- 20%	
Cadmium	6010B	0.002 U	0.002 U	0.0%	+/- 0.002	L
Calcium	6010B	57.4	57.7	0.5%	+/- 20%	
Chromium	6010B	0.005 U	0.005 U	0.0%	+/- 0.005	L
Iron	6010B	8.34	8.57	2.7%	+/- 20%	
Lead	6010B	0.02 U	0.02 U	0.0%	+/- 0.02	L
Manganese	6010B	4.89	4.87	0.4%	+/- 20%	
Mercury	7470A	0.0001 U	0.0001 U	0.0%	+/- 0.0001	L
Potassium	6010B	11.5	11.3	1.8%	+/- 20%	
Selenium	6010B	0.05 U	0.05 U	0.0%	+/- 0.05	L
Silver	6010B	0.003 U	0.003 U	0.0%	+/- 0.003	L
Sodium	6010B	26.5	26.5	0.0%	+/- 20%	

Reported in mg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-10
MATRIX SPIKE

Lab Sample ID: MI25M
LIMS ID: 08-2497
Matrix: Water
Data Release Authorized: 
Reported: 02/20/08

QC Report No: MI25-Parametrix, Inc.
Project: Yakima Resources (YR)

Date Sampled: 02/06/08
Date Received: 02/08/08

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	0.05 U	2.15	2.00	108%	
Barium	6010B	0.029	2.06	2.00	102%	
Cadmium	6010B	0.002 U	0.538	0.500	108%	
Calcium	6010B	57.4	67.3	10.0	99.0%	H
Chromium	6010B	0.005 U	0.507	0.500	101%	
Iron	6010B	8.34	10.6	2.00	113%	H
Lead	6010B	0.02 U	2.04	2.00	102%	
Manganese	6010B	4.89	5.26	0.500	74.0%	H
Mercury	7470A	0.0001 U	0.0012	0.001	120%	
Potassium	6010B	11.5	22.5	10.0	110%	
Selenium	6010B	0.05 U	2.39	2.00	120%	
Silver	6010B	0.003 U	0.440	0.500	88.0%	
Sodium	6010B	26.5	36.6	10.0	101%	

Reported in mg/L

N-Control Limit Not Met

H-% Recovery Not Applicable, Sample Concentration Too High

NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%



Analytical Resources, Incorporated
Analytical Chemists and Consultants

18 March 2008

Annika Deutsch
Parametrix, Inc.
411 108th Avenue NE
Suite 1800
Bellevue, WA 98004-5571

RE: Project: Yakima
ARI Job No. MK72

Dear Annika:

Please find enclosed a copy of the original Chain of Custody (COC) record and the final results for the samples from the project referenced above. Analytical Resources, Inc. received eleven soil samples, six water samples and one trip blank on February 28, 2008. The samples were received intact and there were no discrepancies in the paperwork. The samples were analyzed for VOAs, BETX/NWTPH-G, SVOAs, PCBs, NWTPH-Dx, total and dissolved metals and pH as requested. This report contains the data for the water samples only. The data for the soil samples were mailed under separate cover.

Small amounts of barium and calcium were detected in the method blank associated with the total metals analyses of these samples. All samples were re-prepared and re-analyzed. The re-analyses proceeded without incident of note. The results for the re-analyses only have been submitted for all samples.

There were no further analytical complications noted.

As always, a copy of these reports and all raw data will remain on file at ARI. If you have questions, or require further information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
206-695-6210
<markh@arilabs.com>

Enclosures

cc: File MK72

MDH/mdh

ARI Data Reporting Qualifiers

Effective 11/22/04

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- NR Spiked compound recovery is not reported due to chromatographic interference
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the limit
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 1 of 2

Sample ID: MB-022908
METHOD BLANK

Lab Sample ID: MB-022908
LIMS ID: 08-3889
Matrix: Water
Data Release Authorized:
Reported: 03/04/08 

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001

Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT3/AAR
Date Analyzed: 02/29/08 14:45

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 2 of 2

Sample ID: MB-022908
METHOD BLANK

Lab Sample ID: MB-022908

QC Report No: MK72-Parametrix, Inc.

LIMS ID: 08-3889

Project: Yakima

Matrix: Water

555-5753-001

Date Analyzed: 02/29/08 14:45

CAS Number	Analyte	RL	Result	Q
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Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	113%
d8-Toluene	101%
Bromofluorobenzene	100%
d4-1,2-Dichlorobenzene	101%



ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 1 of 2

Sample ID: EVP-W
SAMPLE

Lab Sample ID: MK72A
LIMS ID: 08-3889
Matrix: Water
Data Release Authorized:
Reported: 03/04/08

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/28/08
Date Received: 02/28/08

Instrument/Analyst: NT3/AAR
Date Analyzed: 02/29/08 15:58

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	6.9	
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	4.9	
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 2 of 2

Sample ID: EVP-W
SAMPLE

Lab Sample ID: MK72A

QC Report No: MK72-Parametrix, Inc.

LIMS ID: 08-3889

Project: Yakima

Matrix: Water

555-5753-001

Date Analyzed: 02/29/08 15:58

CAS Number	Analyte	RL	Result	Q
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Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	113%
d8-Toluene	101%
Bromofluorobenzene	99.7%
d4-1,2-Dichlorobenzene	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 1 of 2Sample ID: EVP-WD
SAMPLE

Lab Sample ID: MK72B

QC Report No: MK72-Parametrix, Inc.

LIMS ID: 08-3890

Project: Yakima

Matrix: Water

555-5753-001

Data Release Authorized:

Date Sampled: 02/28/08

Reported: 03/04/08

Date Received: 02/28/08

Instrument/Analyst: NT3/AAR

Sample Amount: 5.00 mL

Date Analyzed: 02/29/08 16:23

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	6.4	
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	4.8	
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 2 of 2

Sample ID: EVP-WD
SAMPLE

Lab Sample ID: MK72B
LIMS ID: 08-3890
Matrix: Water
Date Analyzed: 02/29/08 16:23

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result	Q
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Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	113%
d8-Toluene	101%
Bromofluorobenzene	99.2%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 1 of 2Sample ID: TRIP BLANKS
SAMPLE

Lab Sample ID: MK72G

LIMS ID: 08-3895

Matrix: Water

Data Release Authorized: 

Reported: 03/04/08

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/28/08

Date Received: 02/28/08

Instrument/Analyst: NT3/AAR

Date Analyzed: 02/29/08 15:10

Sample Amount: 5.00 mL

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 2 of 2

Sample ID: TRIP BLANKS
SAMPLE

Lab Sample ID: MK72G
LIMS ID: 08-3895
Matrix: Water
Date Analyzed: 02/29/08 15:10

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result	Q
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Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	113%
d8-Toluene	101%
Bromofluorobenzene	99.3%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260

Sample ID: LCS-022908

Page 1 of 2

LAB CONTROL SAMPLE

Lab Sample ID: LCS-022908

QC Report No: MK72-Parametrix, Inc.

LIMS ID: 08-3889

Project: Yakima

Matrix: Water

555-5753-001

Data Release Authorized:

Date Sampled: NA

Reported: 03/04/08

Date Received: NA

Instrument/Analyst LCS: NT3/AAR

Sample Amount LCS: 5.00 mL

LCSD: NT3/AAR

LCSD: 5.00 mL

Date Analyzed LCS: 02/29/08 13:57

Purge Volume LCS: 5.0 mL

LCSD: 02/29/08 14:21

LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	51.9	50.0	104%	52.1	50.0	104%	0.4%
Bromomethane	40.8	50.0	81.6%	42.6	50.0	85.2%	4.3%
Vinyl Chloride	51.3	50.0	103%	52.4	50.0	105%	2.1%
Chloroethane	46.6	50.0	93.2%	45.8	50.0	91.6%	1.7%
Methylene Chloride	49.1	50.0	98.2%	50.6	50.0	101%	3.0%
Acetone	304	250	122%	320	250	128%	5.1%
Carbon Disulfide	49.6	50.0	99.2%	50.0	50.0	100%	0.8%
1,1-Dichloroethene	49.8	50.0	99.6%	50.7	50.0	101%	1.8%
1,1-Dichloroethane	51.2	50.0	102%	52.8	50.0	106%	3.1%
trans-1,2-Dichloroethene	49.2	50.0	98.4%	50.5	50.0	101%	2.6%
cis-1,2-Dichloroethene	50.0	50.0	100%	51.7	50.0	103%	3.3%
Chloroform	50.8	50.0	102%	52.2	50.0	104%	2.7%
1,2-Dichloroethane	50.4	50.0	101%	51.2	50.0	102%	1.6%
2-Butanone	293	250	117%	307	250	123%	4.7%
1,1,1-Trichloroethane	50.1	50.0	100%	51.4	50.0	103%	2.6%
Carbon Tetrachloride	46.2	50.0	92.4%	46.9	50.0	93.8%	1.5%
Vinyl Acetate	53.7	50.0	107%	55.9	50.0	112%	4.0%
Bromodichloromethane	48.1	50.0	96.2%	49.1	50.0	98.2%	2.1%
1,2-Dichloropropane	48.4	50.0	96.8%	50.3	50.0	101%	3.9%
cis-1,3-Dichloropropene	49.0	50.0	98.0%	50.4	50.0	101%	2.8%
Trichloroethene	46.9	50.0	93.8%	48.1	50.0	96.2%	2.5%
Dibromochloromethane	47.2	50.0	94.4%	47.2	50.0	94.4%	0.0%
1,1,2-Trichloroethane	47.6	50.0	95.2%	49.0	50.0	98.0%	2.9%
Benzene	48.3	50.0	96.6%	49.6	50.0	99.2%	2.7%
trans-1,3-Dichloropropene	50.2	50.0	100%	50.6	50.0	101%	0.8%
Bromoform	45.5	50.0	91.0%	45.4	50.0	90.8%	0.2%
4-Methyl-2-Pentanone (MIBK)	270	250	108%	284	250	114%	5.1%
2-Hexanone	280	250	112%	296	250	118%	5.6%
Tetrachloroethene	44.5	50.0	89.0%	45.3	50.0	90.6%	1.8%
1,1,2,2-Tetrachloroethane	51.0	50.0	102%	53.3	50.0	107%	4.4%
Toluene	47.2	50.0	94.4%	48.4	50.0	96.8%	2.5%
Chlorobenzene	47.0	50.0	94.0%	47.9	50.0	95.8%	1.9%
Ethylbenzene	48.4	50.0	96.8%	50.6	50.0	101%	4.4%
Styrene	49.6	50.0	99.2%	50.8	50.0	102%	2.4%
Trichlorofluoromethane	45.9	50.0	91.8%	36.8	50.0	73.6%	22.0%
m,p-Xylene	95.8	100	95.8%	98.2	100	98.2%	2.5%
o-Xylene	48.1	50.0	96.2%	49.1	50.0	98.2%	2.1%
1,2-Dichlorobenzene	46.6	50.0	93.2%	47.7	50.0	95.4%	2.3%
1,4-Dichlorobenzene	46.6	50.0	93.2%	47.7	50.0	95.4%	2.3%
Methyl Iodide	40.5	50.0	81.0%	42.6	50.0	85.2%	5.1%
Acrylonitrile	57.6	50.0	115%	60.5	50.0	121%	4.9%
Dibromomethane	48.0	50.0	96.0%	49.5	50.0	99.0%	3.1%
1,1,1,2-Tetrachloroethane	46.2	50.0	92.4%	47.0	50.0	94.0%	1.7%
1,2-Dibromo-3-chloropropane	54.4	50.0	109%	57.0	50.0	114%	4.7%
1,2,3-Trichloropropane	50.8	50.0	102%	52.0	50.0	104%	2.3%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260
Page 2 of 2

Sample ID: LCS-022908
LAB CONTROL SAMPLE

Lab Sample ID: LCS-022908
LIMS ID: 08-3889
Matrix: Water

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
trans-1,4-Dichloro-2-butene	53.9	50.0	108%	54.7	50.0	109%	1.5%
Ethylene Dibromide	48.5	50.0	97.0%	49.8	50.0	99.6%	2.6%
Bromochloromethane	48.8	50.0	97.6%	50.0	50.0	100%	2.4%

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	113%	113%
d8-Toluene	102%	102%
Bromofluorobenzene	102%	102%
d4-1,2-Dichlorobenzene	100%	100%

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MB-022908
 METHOD BLANK

Lab Sample ID: MB-022908
 LIMS ID: 08-3889
 Matrix: Water
 Data Release Authorized: *[Signature]*
 Reported: 03/05/08

QC Report No: MK72-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001
 Date Sampled: NA
 Date Received: NA

Date Analyzed: 02/29/08 09:58
 Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons 0.25 < 0.25 U GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	96.7%
Bromobenzene	101%

Gasoline Surrogate Recovery

Trifluorotoluene	98.1%
Bromobenzene	104%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MB-030308

METHOD BLANK

Lab Sample ID: MB-030308

LIMS ID: 08-3894

Matrix: Water

Data Release Authorized: 

Reported: 03/05/08

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001

Date Sampled: NA

Date Received: NA

Date Analyzed: 03/03/08 13:04

Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	95.3%
Bromobenzene	99.1%

Gasoline Surrogate Recovery

Trifluorotoluene	96.6%
Bromobenzene	101%

BETX values reported in $\mu\text{g/L}$ (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: EVP-W
SAMPLE

Lab Sample ID: MK72A

LIMS ID: 08-3889

Matrix: Water

Data Release Authorized:

Reported: 03/05/08 

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001

Date Sampled: 02/28/08

Date Received: 02/28/08

Date Analyzed: 02/29/08 14:37

Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	97.6%
Bromobenzene	99.0%

Gasoline Surrogate Recovery

Trifluorotoluene	101%
Bromobenzene	104%

BETX values reported in $\mu\text{g/L}$ (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: EVP-WD
 SAMPLE

Lab Sample ID: MK72B
 LIMS ID: 08-3890
 Matrix: Water
 Data Release Authorized: *[Signature]*
 Reported: 03/05/08

QC Report No: MK72-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001
 Date Sampled: 02/28/08
 Date Received: 02/28/08

Date Analyzed: 02/29/08 15:02
 Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	96.0%
Bromobenzene	99.3%

Gasoline Surrogate Recovery

Trifluorotoluene	99.7%
Bromobenzene	104%

BETX values reported in $\mu\text{g/L}$ (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: STL-W
 SAMPLE

Lab Sample ID: MK72C
 LIMS ID: 08-3891
 Matrix: Water
 Data Release Authorized:
 Reported: 03/05/08 *[Signature]*

QC Report No: MK72-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001
 Date Sampled: 02/28/08
 Date Received: 02/28/08

Date Analyzed: 02/29/08 15:26
 Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	7.3
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons 0.25 < 0.25 U GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	99.0%
Bromobenzene	103%

Gasoline Surrogate Recovery

Trifluorotoluene	101%
Bromobenzene	106%

BETX values reported in $\mu\text{g/L}$ (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: REC-W
 SAMPLE

Lab Sample ID: MK72D
 LIMS ID: 08-3892
 Matrix: Water
 Data Release Authorized:
 Reported: 03/05/08

QC Report No: MK72-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001
 Date Sampled: 02/28/08
 Date Received: 02/28/08

Date Analyzed: 02/29/08 15:51
 Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	97.3%
Bromobenzene	99.2%

Gasoline Surrogate Recovery

Trifluorotoluene	99.3%
Bromobenzene	103%

BETX values reported in $\mu\text{g/L}$ (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.



ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KILN2-W
 SAMPLE

Lab Sample ID: MK72E
 LIMS ID: 08-3893
 Matrix: Water
 Data Release Authorized:
 Reported: 03/05/08

QC Report No: MK72-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001
 Date Sampled: 02/28/08
 Date Received: 02/28/08

Date Analyzed: 02/29/08 17:30
 Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons 0.25 < 0.25 U GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	90.0%
Bromobenzene	86.4%

Gasoline Surrogate Recovery

Trifluorotoluene	95.9%
Bromobenzene	92.2%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: KILN1-W
 SAMPLE

Lab Sample ID: MK72F
 LIMS ID: 08-3894
 Matrix: Water
 Data Release Authorized:
 Reported: 03/05/08

QC Report No: MK72-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001
 Date Sampled: 02/28/08
 Date Received: 02/28/08

Date Analyzed: 03/03/08 13:45
 Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	100%
Bromobenzene	102%

Gasoline Surrogate Recovery

Trifluorotoluene	101%
Bromobenzene	103%

BETX values reported in $\mu\text{g/L}$ (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: TRIP BLANKS
SAMPLE

Lab Sample ID: MK72G

LIMS ID: 08-3895

Matrix: Water

Data Release Authorized:

Reported: 03/05/08 *MB*

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001

Date Sampled: 02/28/08

Date Received: 02/28/08

Date Analyzed: 02/29/08 13:48

Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	100%
Bromobenzene	99.6%

Gasoline Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	103%

BETX values reported in $\mu\text{g/L}$ (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: LCS-022908
LAB CONTROL SAMPLE

Lab Sample ID: LCS-022908
LIMS ID: 08-3889
Matrix: Water
Data Release Authorized:
Reported: 03/05/08

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
Event: 555-5753-001
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 02/29/08 09:09
LCSD: 02/29/08 09:33
Instrument/Analyst LCS: PID3/PKC
LCSD: PID3/PKC

Purge Volume: 5.0 mL
Dilution Factor LCS: 1.0
LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	1.10	1.00	110%	1.07	1.00	107%	2.8%

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	90.5%	98.1%
Bromobenzene	94.4%	102%

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 Page 1 of 1

Sample ID: LCS-022908
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-022908
 LIMS ID: 08-3889
 Matrix: Water
 Data Release Authorized:
 Reported: 03/05/08

QC Report No: MK72-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 02/29/08 09:09
 LCSD: 02/29/08 09:33
 Instrument/Analyst LCS: PID3/PKC
 LCSD: PID3/PKC

Purge Volume: 5.0 mL
 Dilution Factor LCS: 1.0
 LCSD: 1.0

Analyte	LCS	Spike	LCS	LCSD	Spike	LCS	RPD
		Added-LCS	Recovery		Added-LCSD	Recovery	
Benzene	6.64	7.00	94.9%	6.55	7.00	93.6%	1.4%
Toluene	59.3	62.0	95.6%	58.4	62.0	94.2%	1.5%
Ethylbenzene	11.3	11.9	95.0%	11.2	11.9	94.1%	0.9%
m,p-Xylene	42.4	44.6	95.1%	41.9	44.6	93.9%	1.2%
o-Xylene	15.4	15.8	97.5%	15.2	15.8	96.2%	1.3%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	88.3%	96.0%
Bromobenzene	91.4%	98.8%

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: LCS-030308
LAB CONTROL SAMPLE

Lab Sample ID: LCS-030308
LIMS ID: 08-3894
Matrix: Water
Data Release Authorized:
Reported: 03/05/08

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
Event: 555-5753-001
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 03/03/08 12:15
LCSD: 03/03/08 12:39
Instrument/Analyst LCS: PID3/PKC
LCSD: PID3/PKC

Purge Volume: 5.0 mL
Dilution Factor LCS: 1.0
LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	1.06	1.00	106%	0.97	1.00	97.0%	8.9%

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	98.6%	95.4%
Bromobenzene	104%	100%

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

Page 1 of 1

Sample ID: LCS-030308

LAB CONTROL SAMPLE

Lab Sample ID: LCS-030308

LIMS ID: 08-3894

Matrix: Water

Data Release Authorized: *RB*

Reported: 03/05/08

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 03/03/08 12:15

LCSD: 03/03/08 12:39

Instrument/Analyst LCS: PID3/PKC

LCSD: PID3/PKC

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0

LCSD: 1.0

Analyte	LCS	Spike	LCS	LCSD	Spike	LCS	RPD
		Added-LCS	Recovery		Added-LCSD	Recovery	
Benzene	6.66	7.00	95.1%	6.19	7.00	88.4%	7.3%
Toluene	58.1	62.0	93.7%	53.7	62.0	86.6%	7.9%
Ethylbenzene	10.9	11.9	91.6%	10.2	11.9	85.7%	6.6%
m,p-Xylene	41.0	44.6	91.9%	38.2	44.6	85.7%	7.1%
o-Xylene	14.8	15.8	93.7%	13.6	15.8	86.1%	8.5%

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	98.4%	95.3%
Bromobenzene	101%	98.7%

PC
3/5/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080229-2.b/0229a006.d ARI ID: MB0229S1
Data file 2: /chem3/pid3.i/20080229-1.b/0229a006.d Client ID:
Method: /chem3/pid3.i/20080229-1.b/PIDB.m Injection Date: 29-FEB-2008 09:58
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.944	0.000	6885	91315	98.1	TFT (Surr)
13.635	-0.003	3516	40865	104.0	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	5952	0.007
8015B (2MP-TMB)	4511	0.003
AKGas (nC6-nC10)	3416	0.003
NWGas (Tol-Nap)	6984	0.008

* Surrogate areas are subtracted from Total Area

=====

RT	Shift	PID Surrogates Response	%Rec	Compound
6.942	0.000	26995	96.7	TFT (Surr)
13.633	-0.003	47984	100.9	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080229-2.b/0229a006.d

Date: 29-FEB-2008 09:58

Client ID:

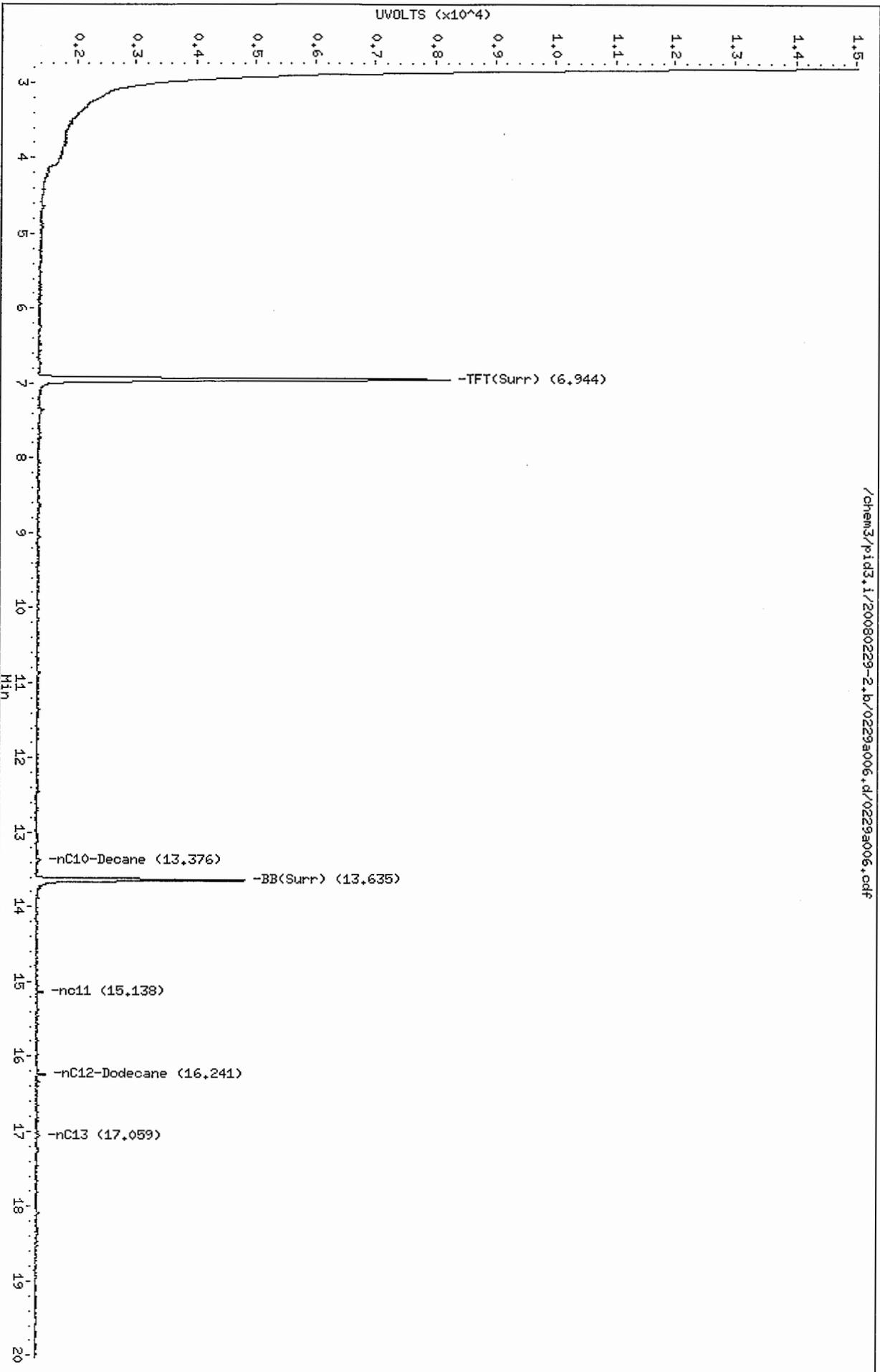
Sample Info: HB0229S1

Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: PC

Column diameter: 0.18



/chem3/pid3.i/20080229-2.b/0229a006.d/0229a006.cdf

Data File: /chem3/pid3.i/20080229-1.b/0229a006.d
Date: 29-FEB-2008 09:58
Client ID:
Sample Info: HB0229S1

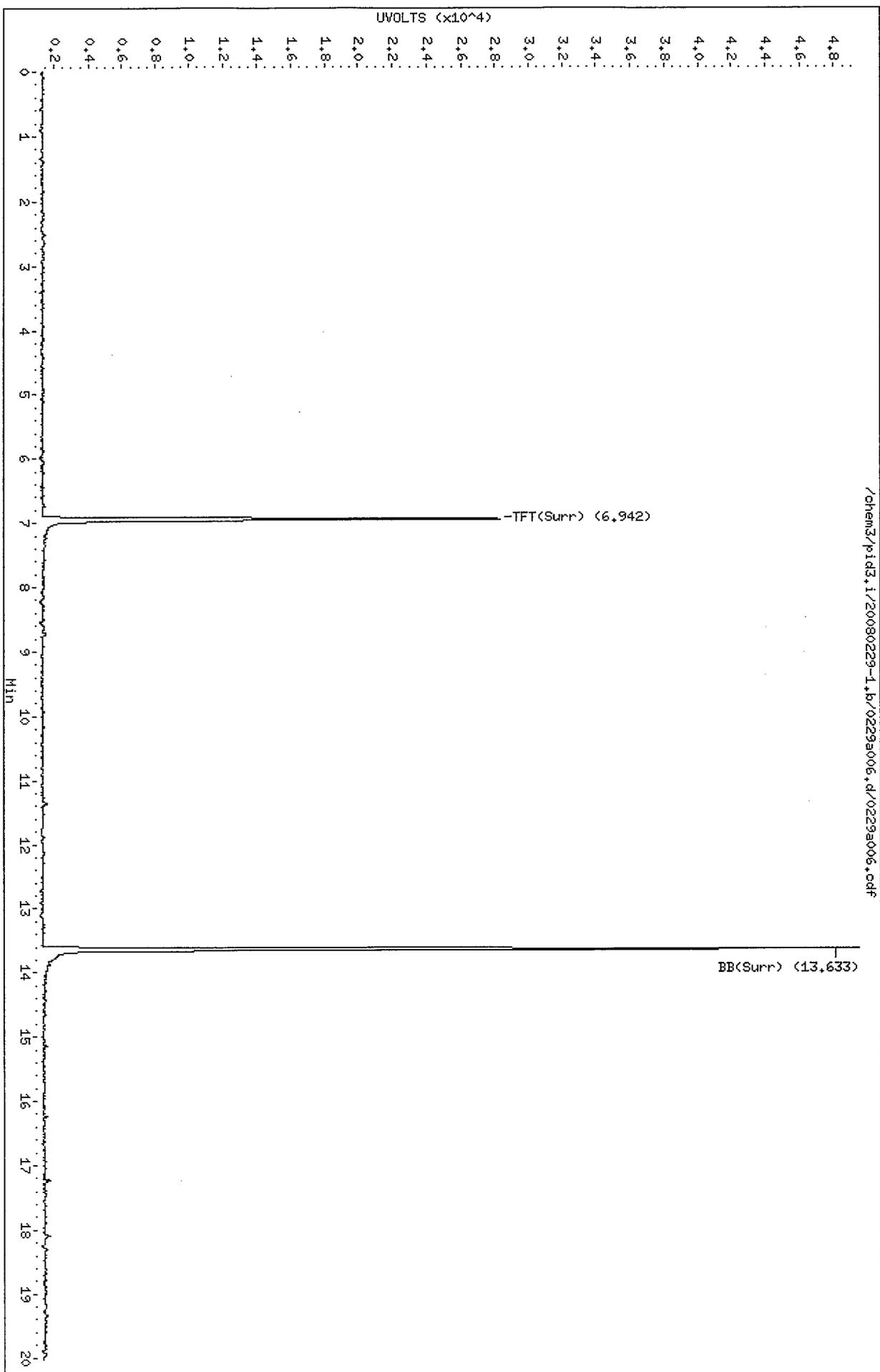
Column phase: RTX 502-2 PID

/chem3/pid3.i/20080229-1.b/0229a006.d/0229a006.cdf

Instrument: pid3.i

Operator: PC

Column diameter: 0.18



PC
3/5/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080229-2.b/0229a004.d ARI ID: LCS0229S1
Data file 2: /chem3/pid3.i/20080229-1.b/0229a004.d Client ID:
Method: /chem3/pid3.i/20080229-1.b/PIDB.m Injection Date: 29-FEB-2008 09:09
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.944	0.000	6351	89941	90.5	TFT(Surr)
13.636	-0.002	3190	37505	94.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	911974	1.092
8015B (2MP-TMB)	1896854	1.081
AKGas (nC6-nC10)	1332482	1.087
NWGas (Tol-Nap)	957913	1.097

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.941	-0.001	24652	88.3	TFT(Surr)
13.633	-0.003	43442	91.4	BB(Surr)

AROMATICS (PID)

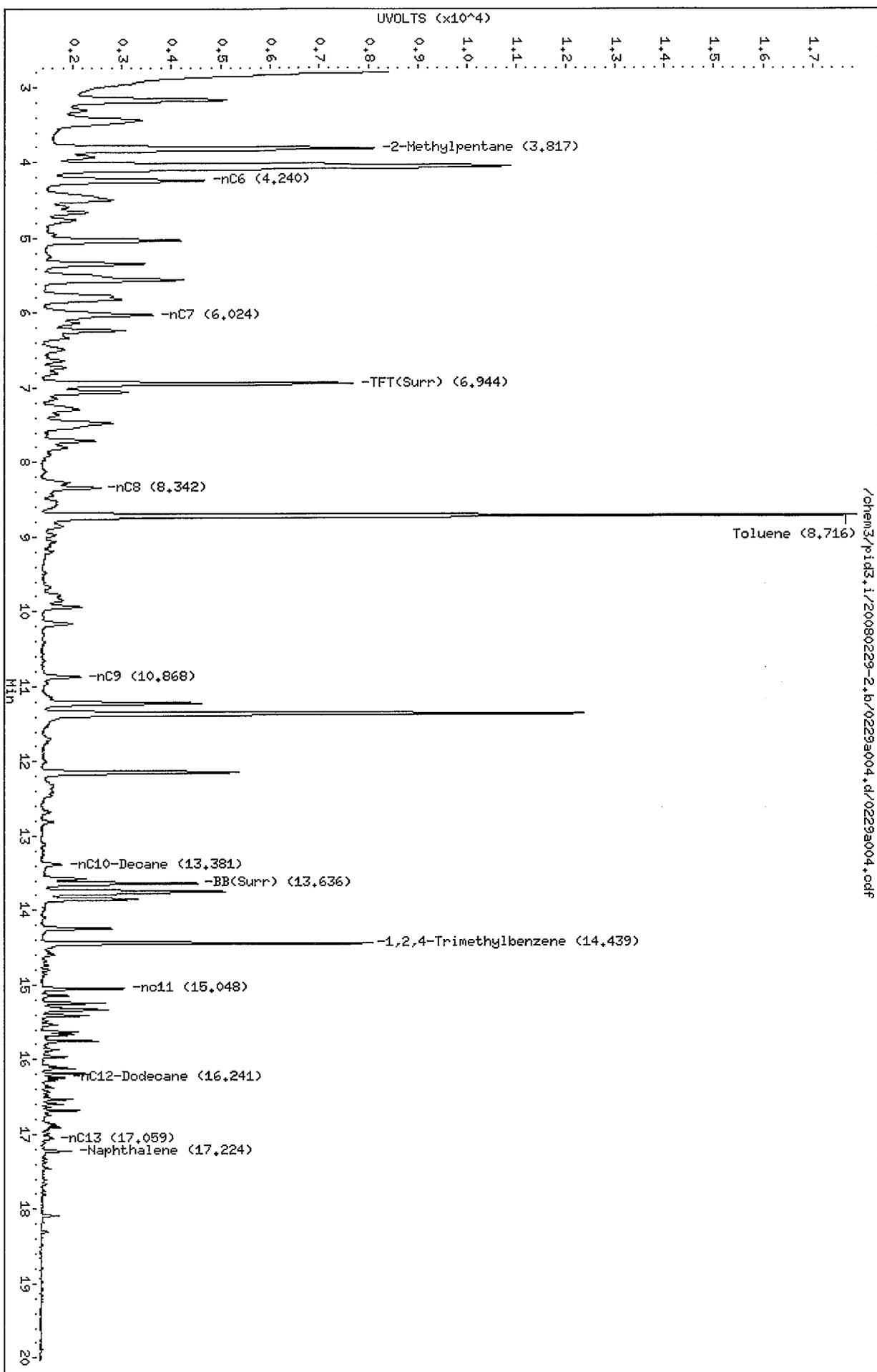
RT	Shift	Response	Amount	Compound
6.230	0.000	11471	6.64	Benzene
8.714	-0.001	105985	59.27	Toluene
11.215	-0.002	18293	11.30	Ethylbenzene
11.353	0.000	74642	42.40	M/P-Xylene
12.141	-0.002	23025	15.42	O-Xylene
4.059	0.005	38911	81.42	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080229-2.b/0229a004.d
Date: 29-FEB-2008 09:09
Client ID:
Sample Info: LCS0229S1

Column phase: RTX 502-2 FID

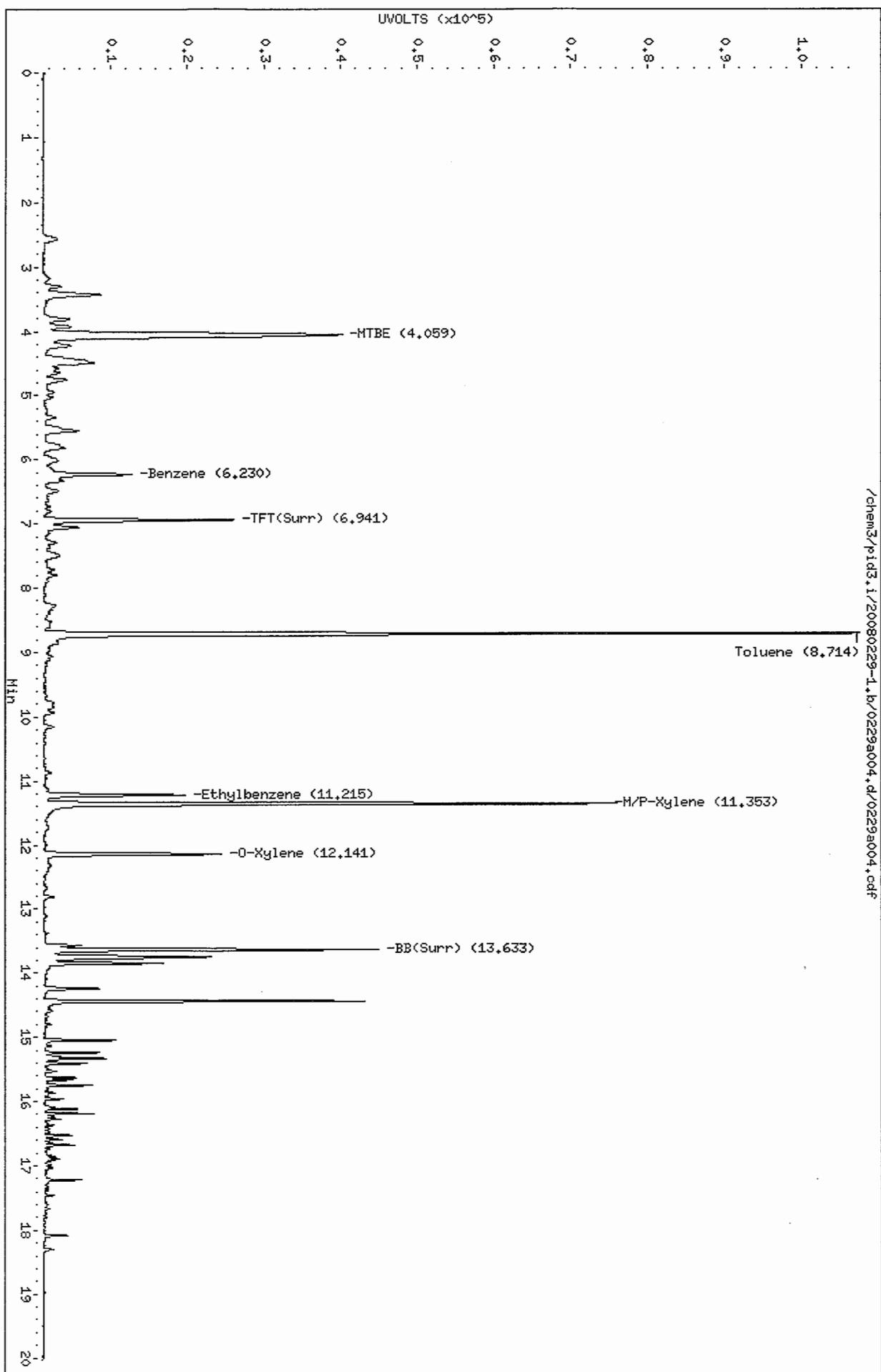
Instrument: pid3.i
Operator: PC
Column diameter: 0.18



Data File: /chem3/pid3.i/20080229-1.b/0229a004.d
Date: 29-FEB-2008 09:09
Client ID:
Sample Info: LCS0229S1

Column phase: RTX 502-2 P1D

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



PL
3/5/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080229-2.b/0229a005.d ARI ID: LCSD0229S1
Data file 2: /chem3/pid3.i/20080229-1.b/0229a005.d Client ID:
Method: /chem3/pid3.i/20080229-1.b/PIDB.m Injection Date: 29-FEB-2008 09:33
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.943	-0.001	6886	95868	98.1	TFT(Surr)
13.634	-0.003	3447	40447	102.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	890648	1.067
8015B (2MP-TMB)	1846785	1.053
AKGas (nC6-nC10)	1288931	1.052
NWGas (Tol-Nap)	935891	1.072

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.942	-0.001	26799	96.0	TFT(Surr)
13.633	-0.003	46975	98.8	BB(Surr)

AROMATICS (PID)

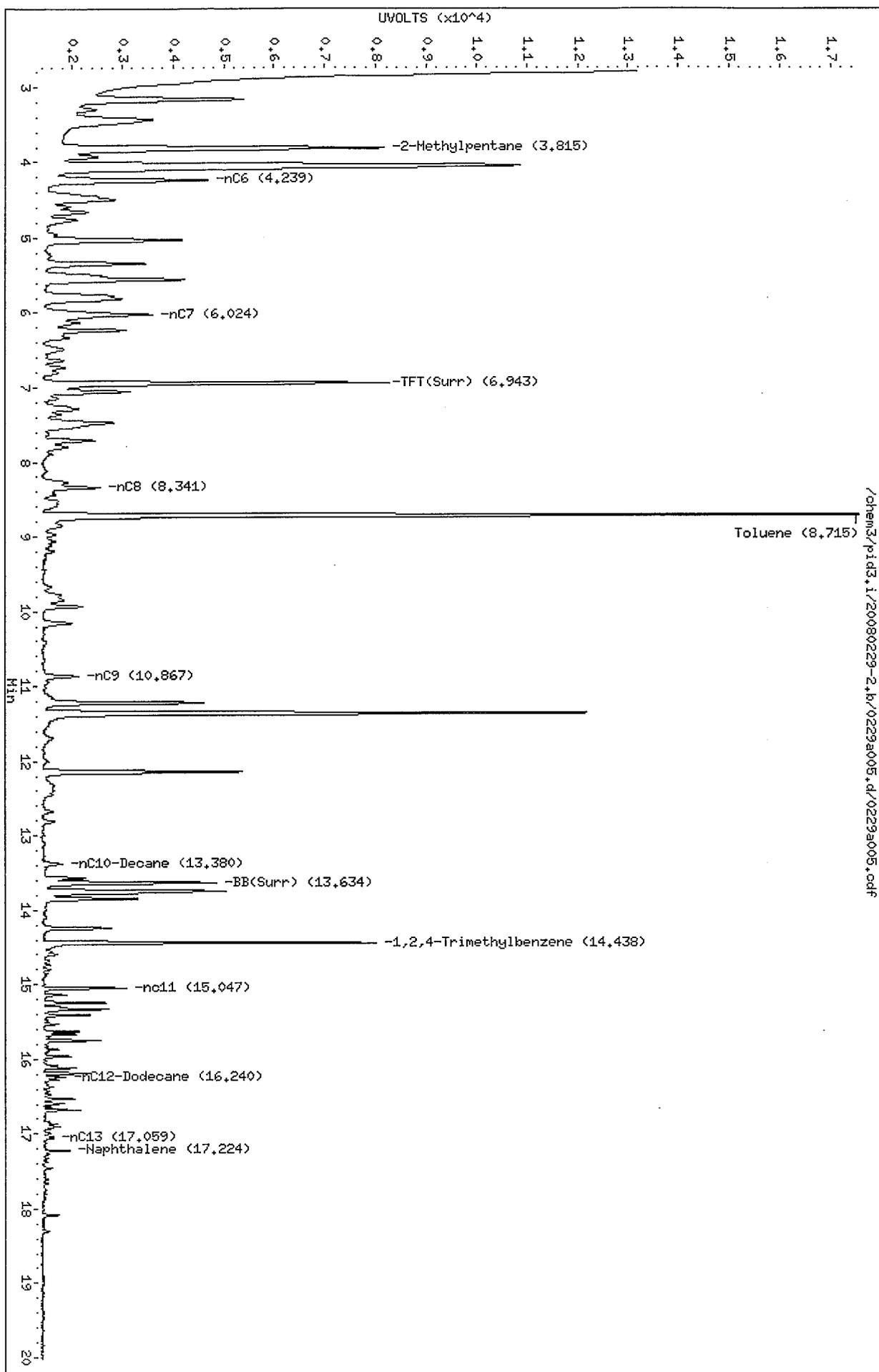
RT	Shift	Response	Amount	Compound
6.230	0.000	11325	6.55	Benzene
8.714	-0.001	104430	58.40	Toluene
11.215	-0.002	18187	11.23	Ethylbenzene
11.353	0.000	73725	41.88	M/P-Xylene
12.141	-0.002	22727	15.22	O-Xylene
4.059	0.005	38666	80.90	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080229-2.k/0229a005.d
Date: 29-FEB-2008 09:33
Client ID:
Sample Info: LCSID0229S1

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18

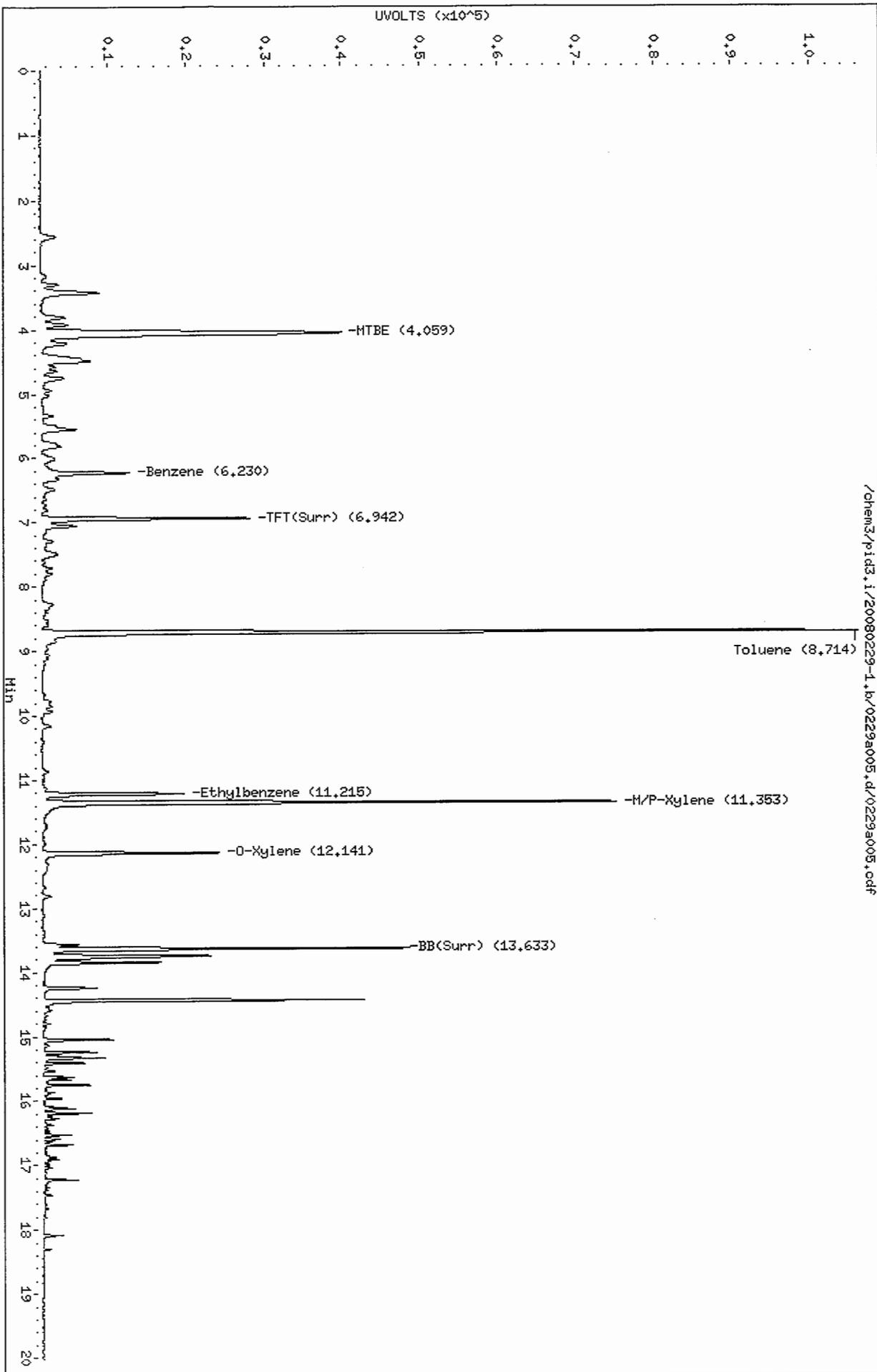


Data File: /chem3/pid3.i/20080229-1.b/0229a005.d
Date: 29-FEB-2008 09:33
Client ID:
Sample Info: LCSID022991

Column phase: RTX 502-2 PID

/chem3/pid3.i/20080229-1.b/0229a005.d/0229a005.odf

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



PC
3/5/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080229-2.b/0229a009.d ARI ID: MK72A
Data file 2: /chem3/pid3.i/20080229-1.b/0229a009.d Client ID: EVP-W
Method: /chem3/pid3.i/20080229-1.b/PIDB.m Injection Date: 29-FEB-2008 14:37
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.944	0.000	7117	92297	101.4	TFT(Surr)
13.637	-0.001	3514	40495	104.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	2640	0.003
8015B (2MP-TMB)	2641	0.002
AKGas (nC6-nC10)	2640	0.002
NWGas (Tol-Nap)	3738	0.004

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.943	0.000	27248	97.6	TFT(Surr)
13.635	0.000	47093	99.0	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
8.715	0.000	1217	0.68	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080229-2.b/0229a009.d

Date: 29-FEB-2008 14:37

Client ID: EWP-M

Sample Info: MK72A

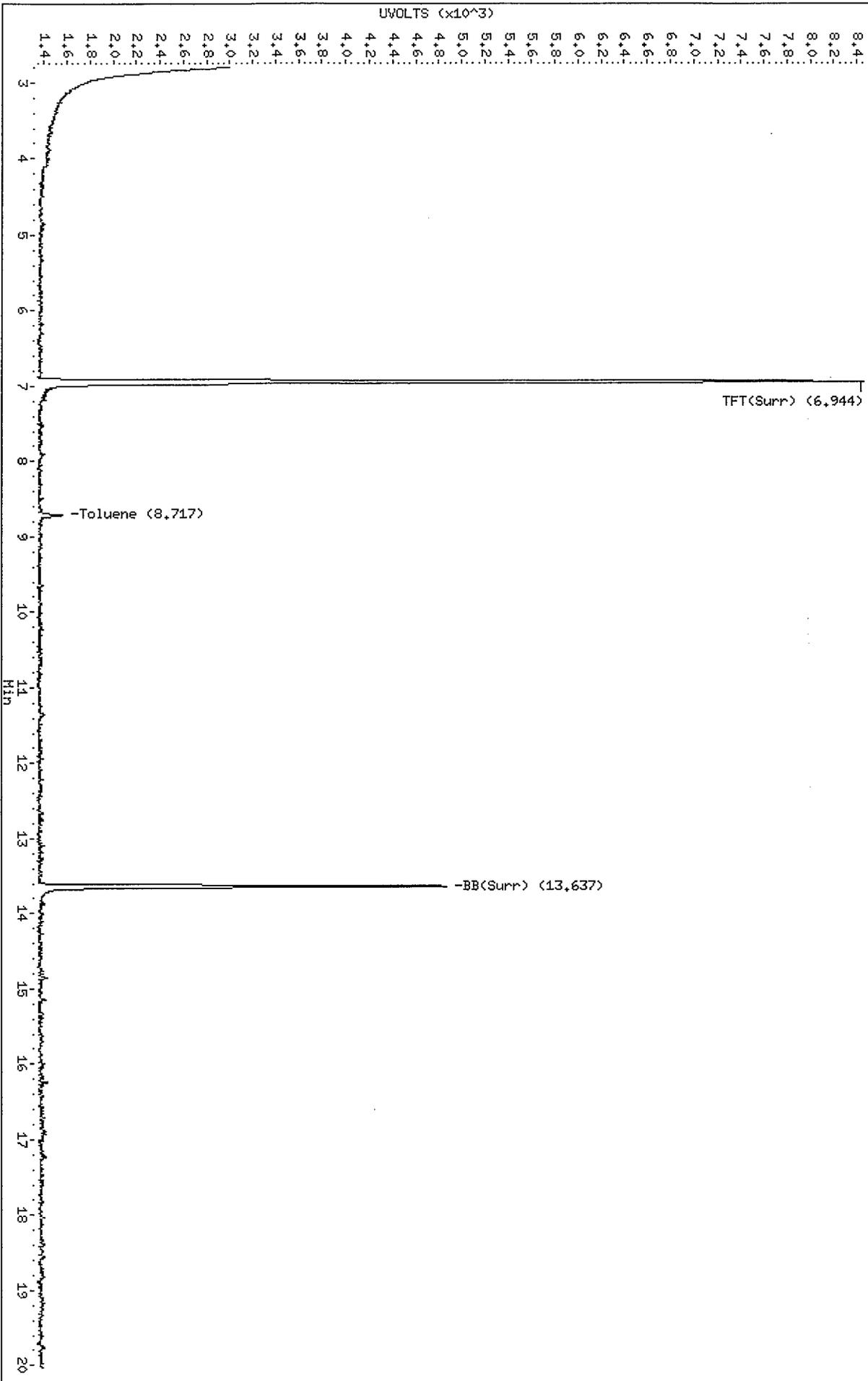
Instrument: pid3.i

Operator: PC

Column diameter: 0.18

Column phase: RTX 502-2 FID

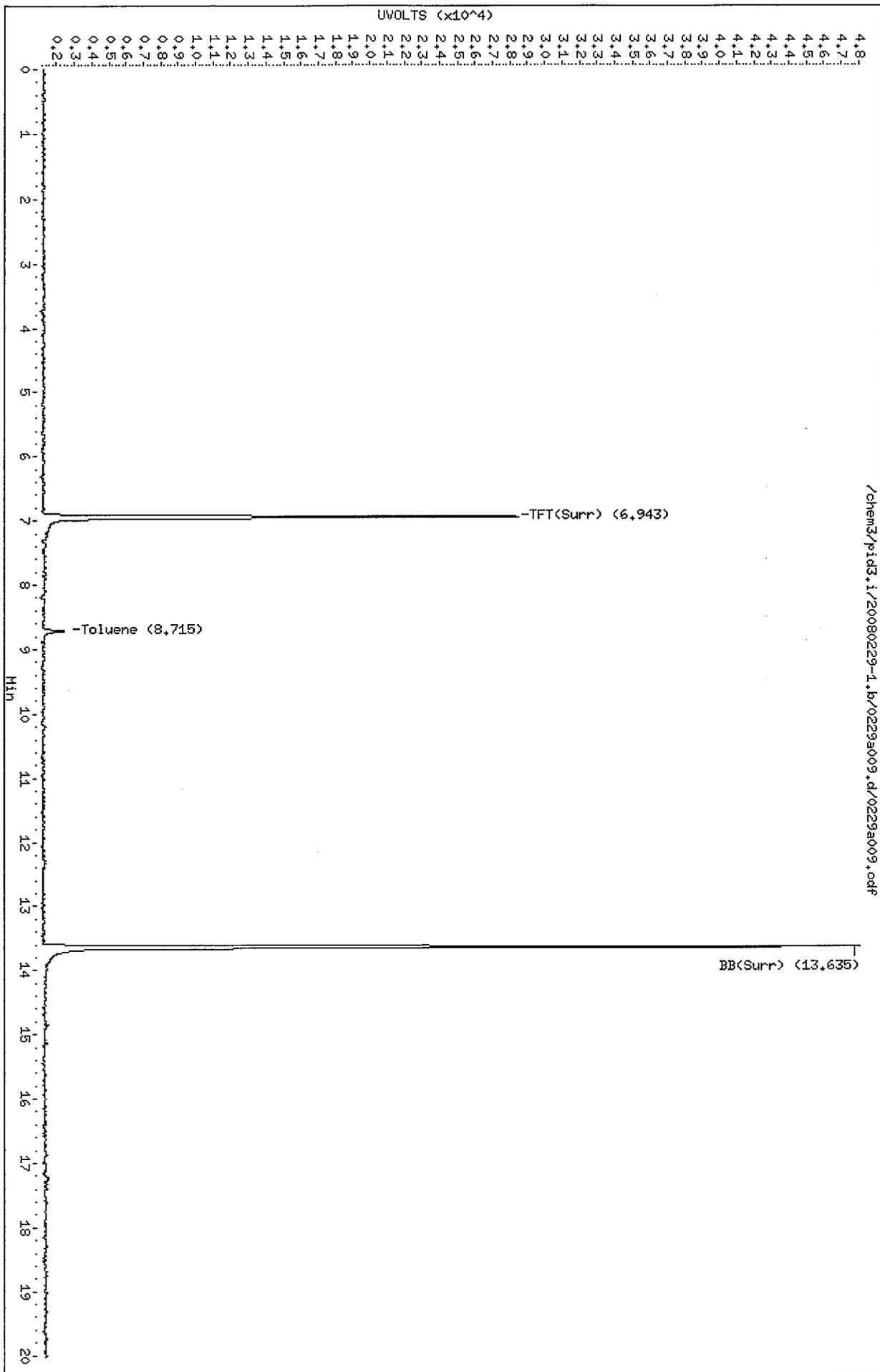
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Data File: /chem3/pid3.i/20080229-1.b/0229a009.d
Date : 29-FEB-2008 14:37
Client ID: EWP-M
Sample Info: HK72A

Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



PC
3/5/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080229-2.b/0229a010.d ARI ID: MK72B
Data file 2: /chem3/pid3.i/20080229-1.b/0229a010.d Client ID: EVP-WD
Method: /chem3/pid3.i/20080229-1.b/PIDB.m Injection Date: 29-FEB-2008 15:02
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.945	0.001	6998	93350	99.7	TFT (Surr)
13.637	-0.001	3505	41028	103.7	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	8294	0.010
8015B (2MP-TMB)	6026	0.003
AKGas (nC6-nC10)	3606	0.003
NWGas (Tol-Nap)	8294	0.009

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.944	0.001	26799	96.0	TFT (Surr)
13.635	0.000	47239	99.3	BB (Surr)

AROMATICS (PID)

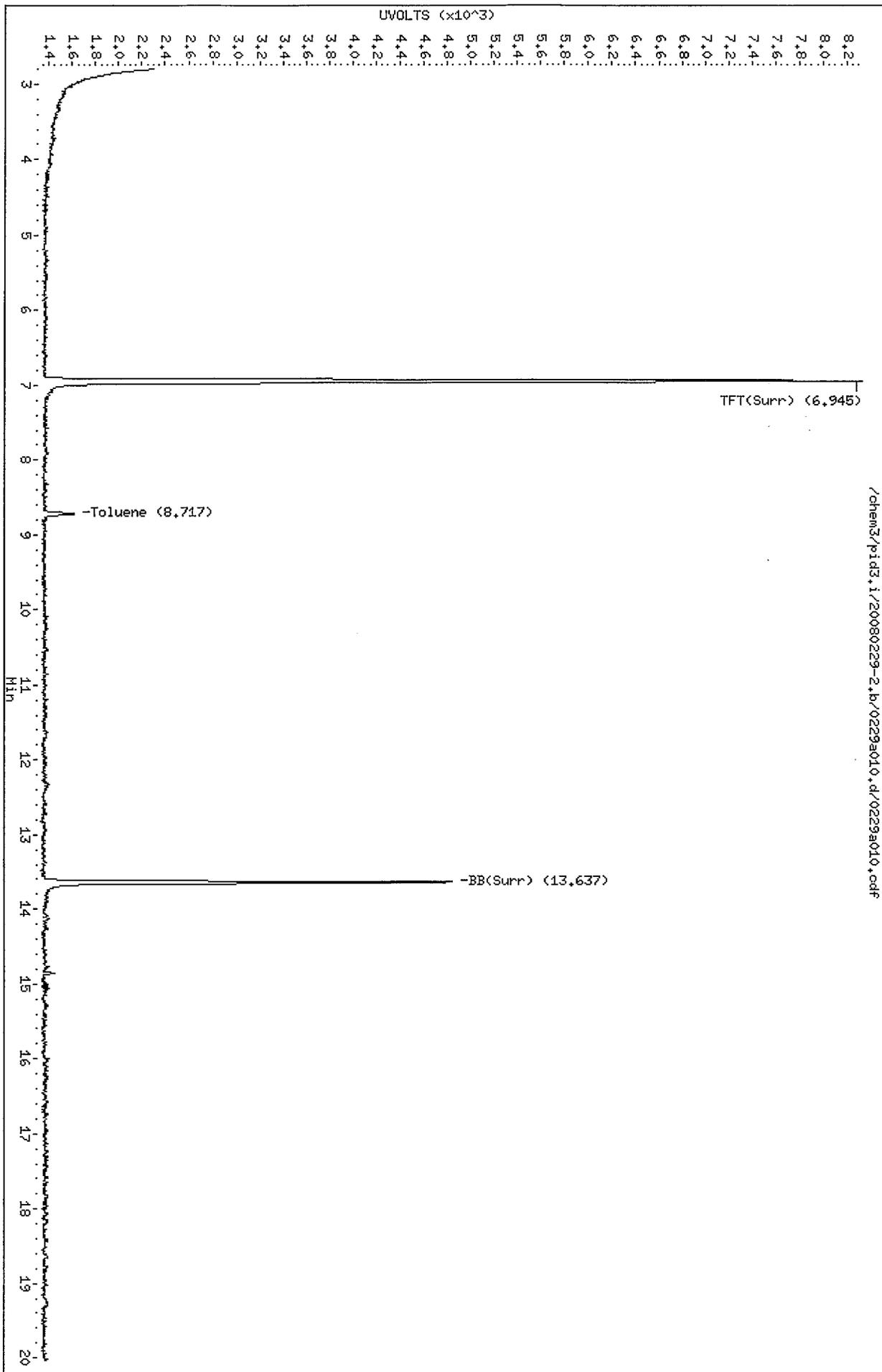
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
8.717	0.001	1558	0.87	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080229-2.b/0229a010.d
Date: 29-FEB-2008 15:02
Client ID: EWP-MD
Sample Info: MK728

Column phase: RTX 502-2 FID

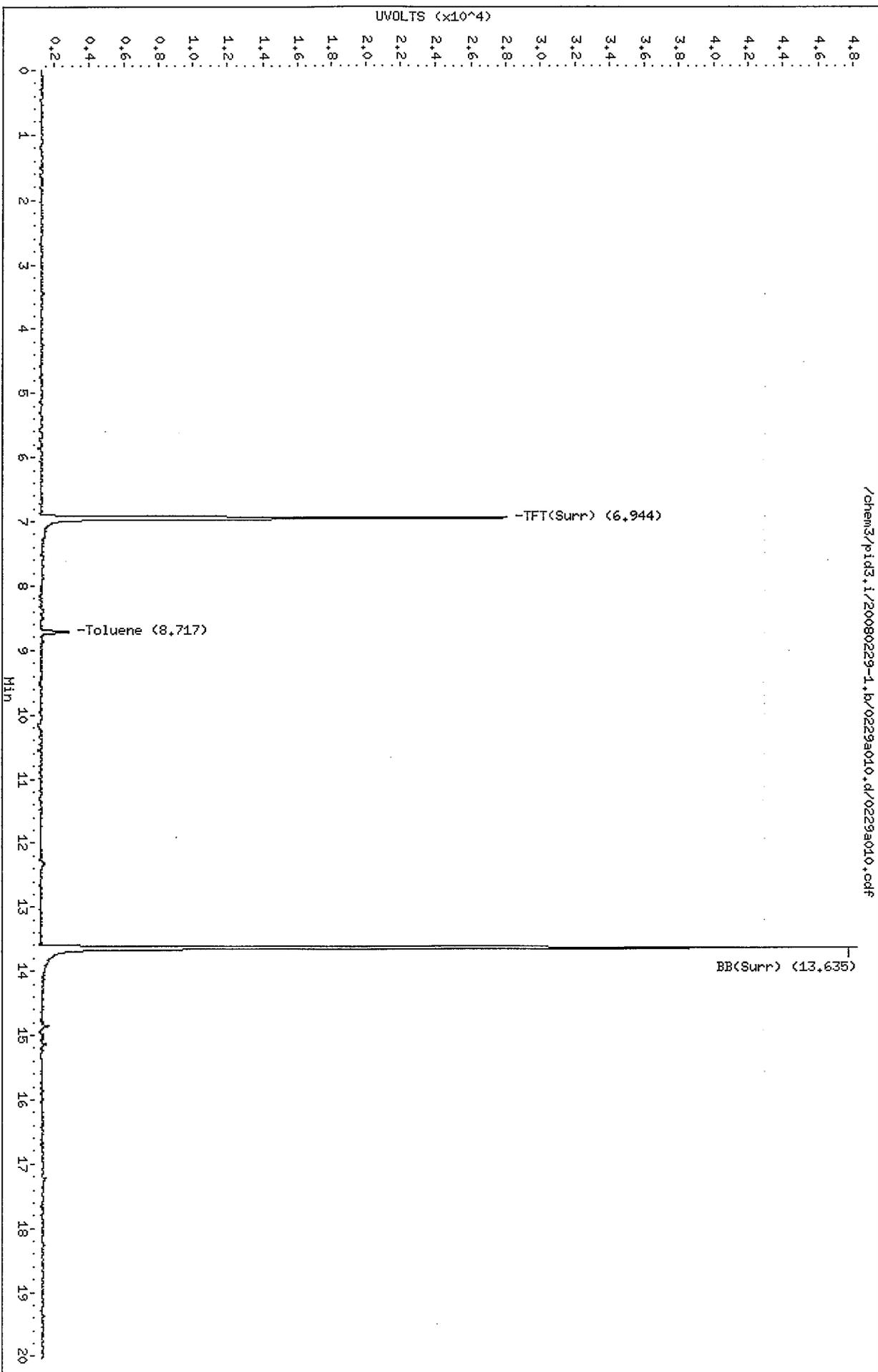
Instrument: pid3.i
Operator: PC
Column diameter: 0.18



Data File: /chem3/pid3.i/20080229-1.b/0229a010.d
Date: 29-FEB-2008 15:02
Client ID: EUP-MD
Sample Info: HK72B

Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080229-2.b/0229a011.d ARI ID: MK72C
Data file 2: /chem3/pid3.i/20080229-1.b/0229a011.d Client ID: STL-W
Method: /chem3/pid3.i/20080229-1.b/PIDB.m Injection Date: 29-FEB-2008 15:26
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.944	-0.001	7106	94942	101.3	TFT(Surr)
13.635	-0.002	3585	42575	106.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	42557	0.051
8015B (2MP-TMB)	29873	0.017
AKGas (nC6-nC10)	26578	0.022
NWGas (Tol-Nap)	55354	0.063

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.942	0.000	27630	99.0	TFT(Surr)
13.634	-0.002	48875	102.8	BB(Surr)

AROMATICS (PID)

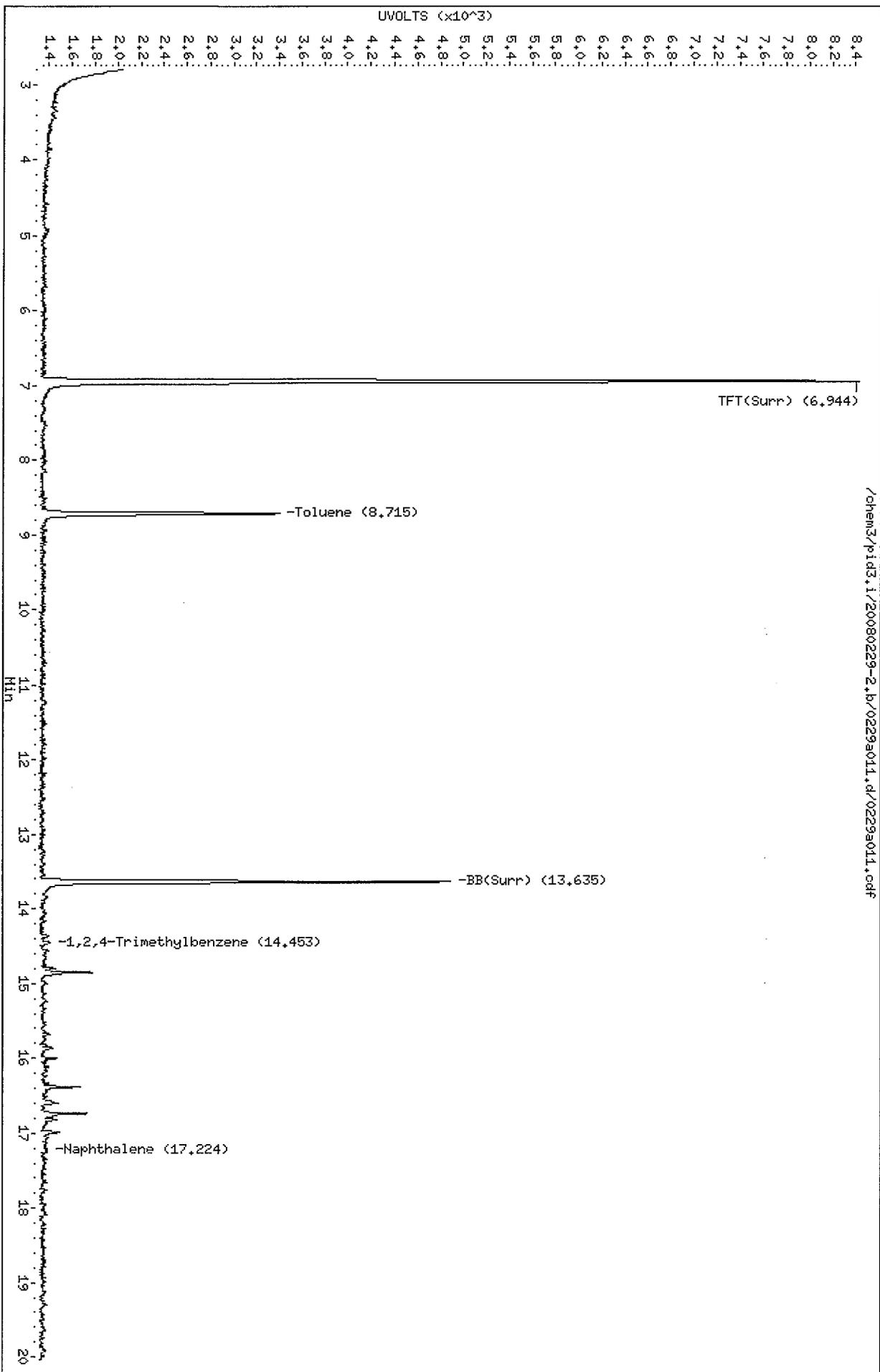
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
8.714	-0.001	13096	7.32	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080229-2.b/0229a011.d
Date: 29-FEB-2008 15:26
Client ID: STL-14
Sample Info: KK72C

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



Data File: /chem3/pid3.i/20080229-1.b/0229a011.d

Date: 29-FEB-2008 15:26

Client ID: STL-M

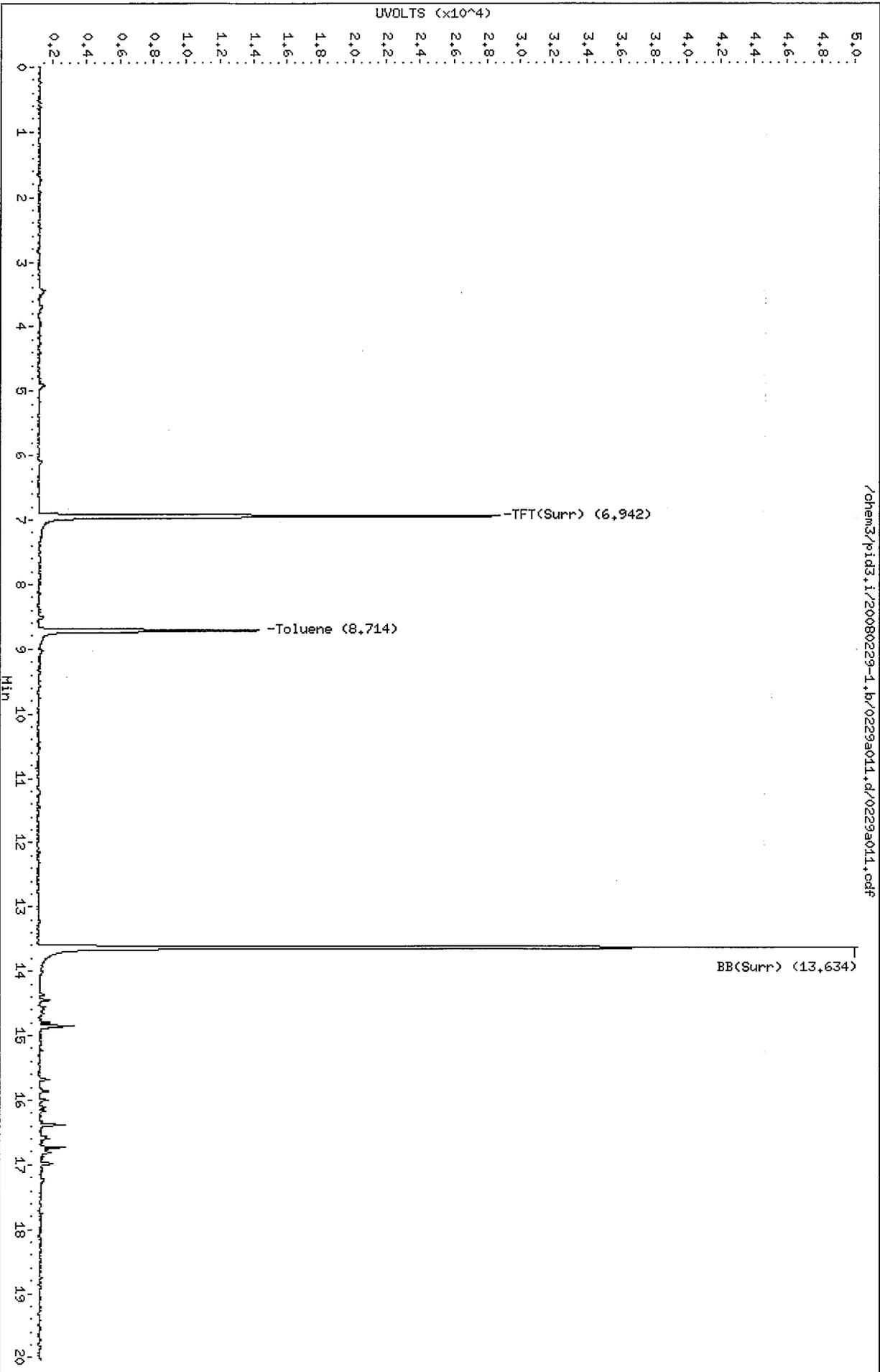
Sample Info: MK72C

Column Phase: RTX 502-2 PID

Instrument: pid3.i

Operator: PC

Column diameter: 0.18



PC
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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080229-2.b/0229a012.d ARI ID: MK72D
Data file 2: /chem3/pid3.i/20080229-1.b/0229a012.d Client ID: REC-W
Method: /chem3/pid3.i/20080229-1.b/PIDB.m Injection Date: 29-FEB-2008 15:51
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.943	-0.001	6969	92466	99.3	TFT (Surr)
13.635	-0.003	3494	40404	103.4	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	4202	0.005
8015B (2MP-TMB)	4203	0.002
AKGas (nC6-nC10)	2854	0.002
NWGas (Tol-Nap)	10721	0.012

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.942	-0.001	27178	97.3	TFT (Surr)
13.634	-0.002	47167	99.2	BB (Surr)

AROMATICS (PID)

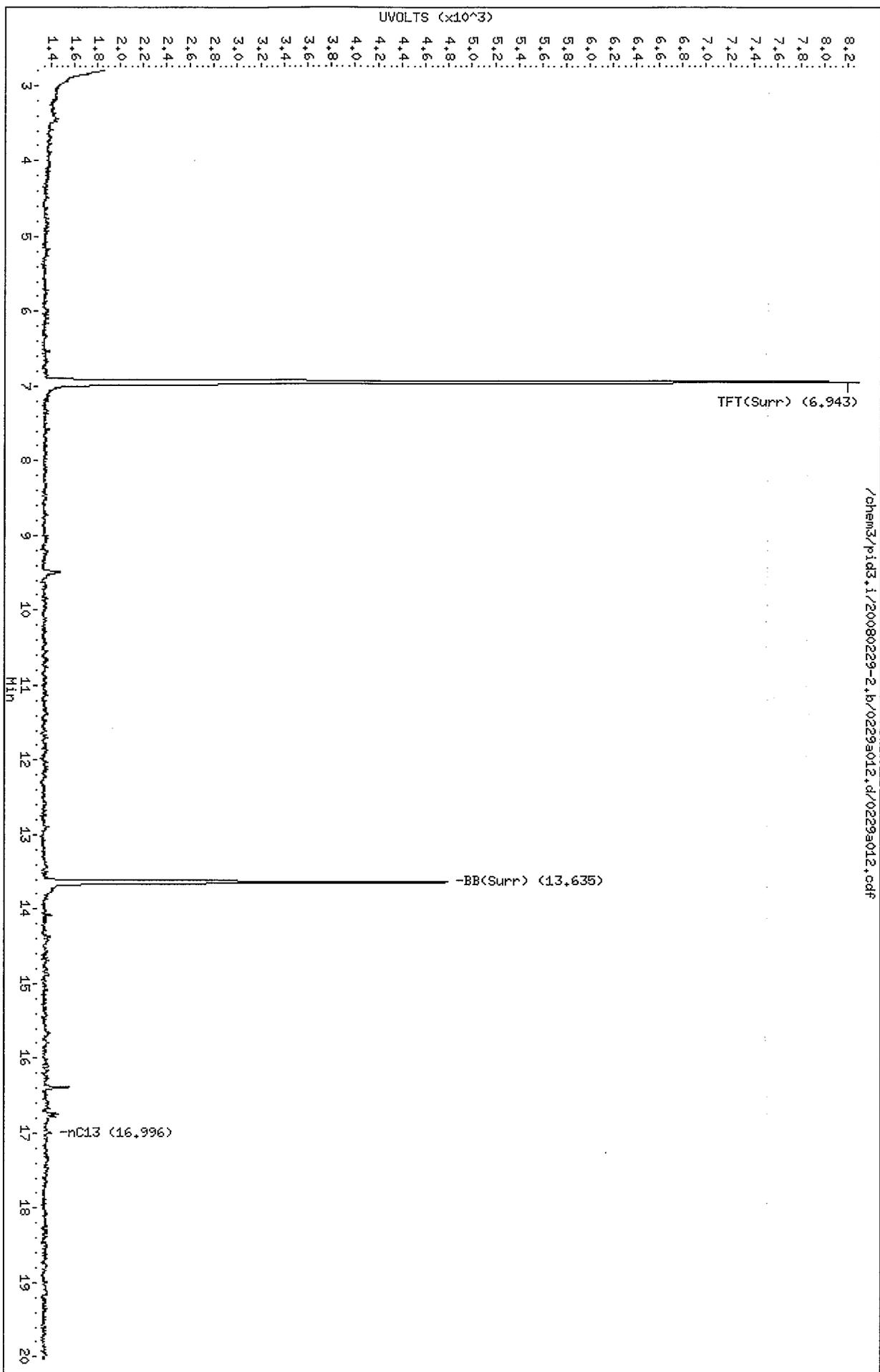
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080229-2.b/0229s012.d
Date: 29-FEB-2008 15:51
Client ID: REC-M
Sample Info: HK72D

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18

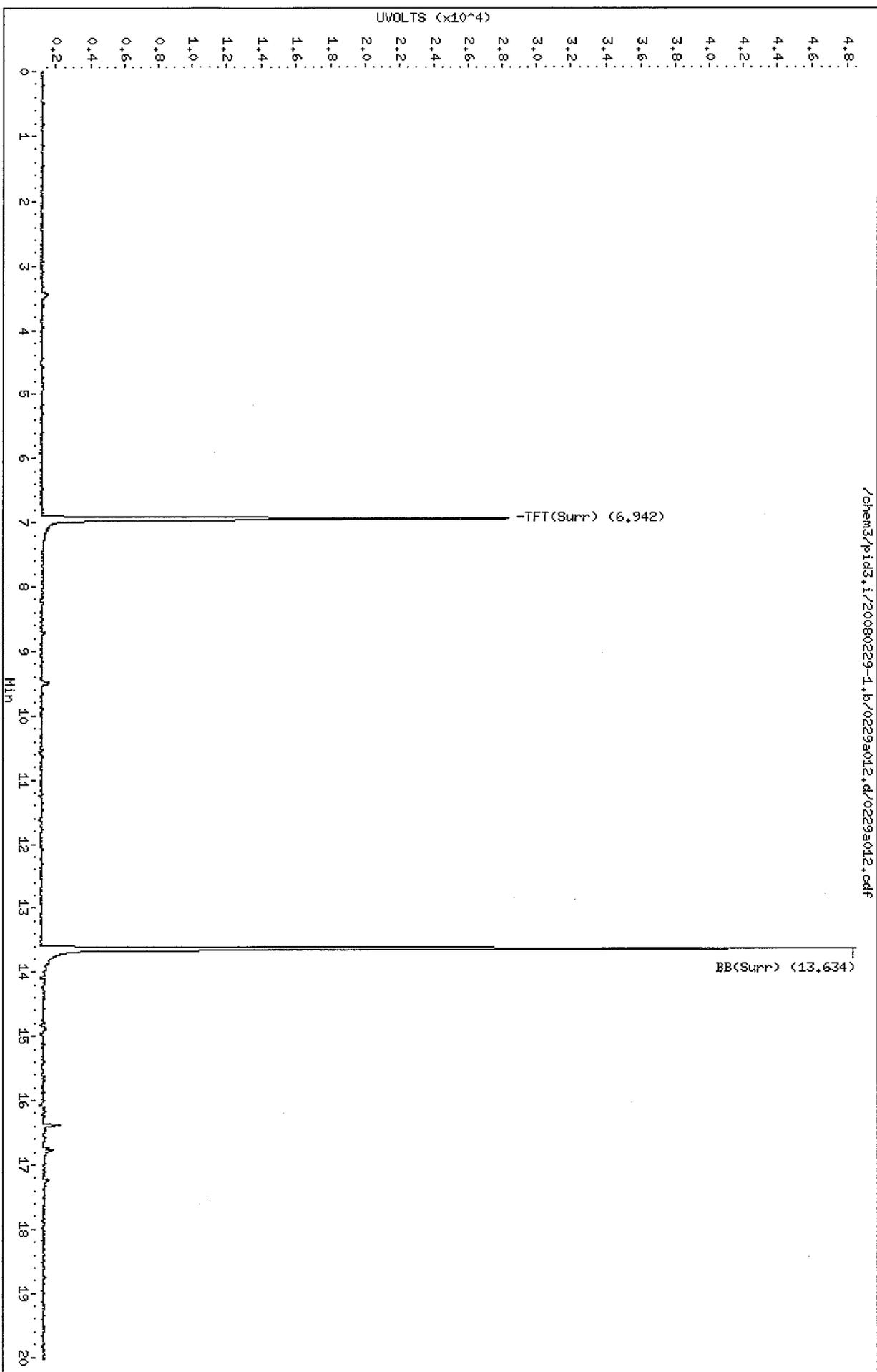


Data File: /chem3/pid3.i/20080229-1.b/0229a012.d
Date: 29-FEB-2008 15:51
Client ID: REC-M
Sample Info: HK72D

Column phase: RTX 502-2 PID

/chem3/pid3.i/20080229-1.b/0229a012.d/0229a012.cdf

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



PC
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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080229-2.b/0229a016.d ARI ID: MK72E
Data file 2: /chem3/pid3.i/20080229-1.b/0229a016.d Client ID: KILN2-W
Method: /chem3/pid3.i/20080229-1.b/PIDB.m Injection Date: 29-FEB-2008 17:30
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.943	-0.001	6732	89117	95.9	TFT (Surr)
13.635	-0.002	3118	34825	92.2	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	1	0.000
8015B (2MP-TMB)	1	0.000
AKGas (nC6-nC10)	1	0.000
NWGas (Tol-Nap)	1	0.000

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.942	0.000	25142	90.0	TFT (Surr)
13.634	-0.002	41103	86.4	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080229-2.b/0229a016.d

Date: 29-FEB-2008 17:30

Client ID: KILN2-M

Sample Info: MK7ZE

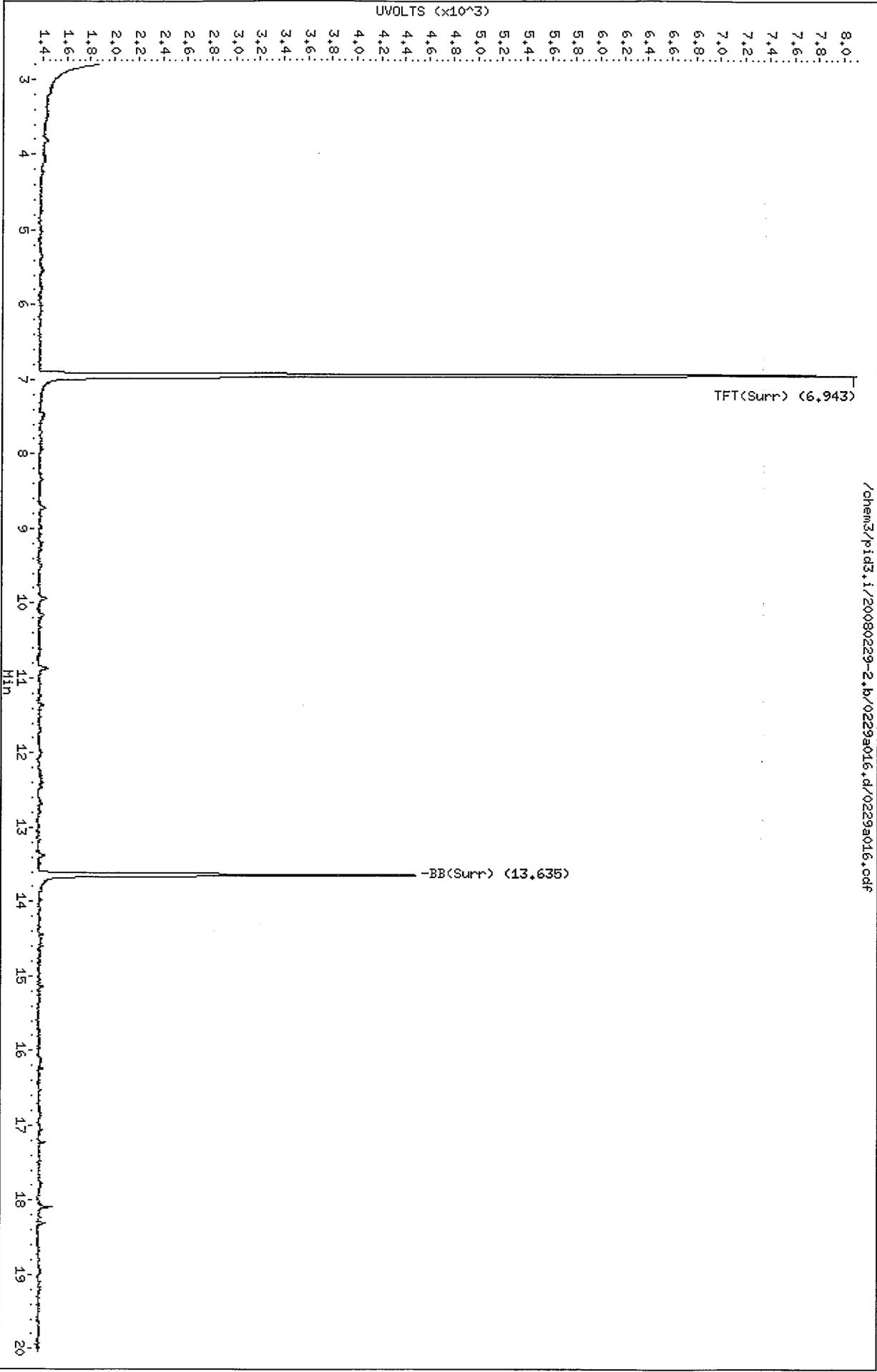
Instrument: pid3.i

Operator: PC

Column diameter: 0.18

Column phase: RTX 502-2 FID

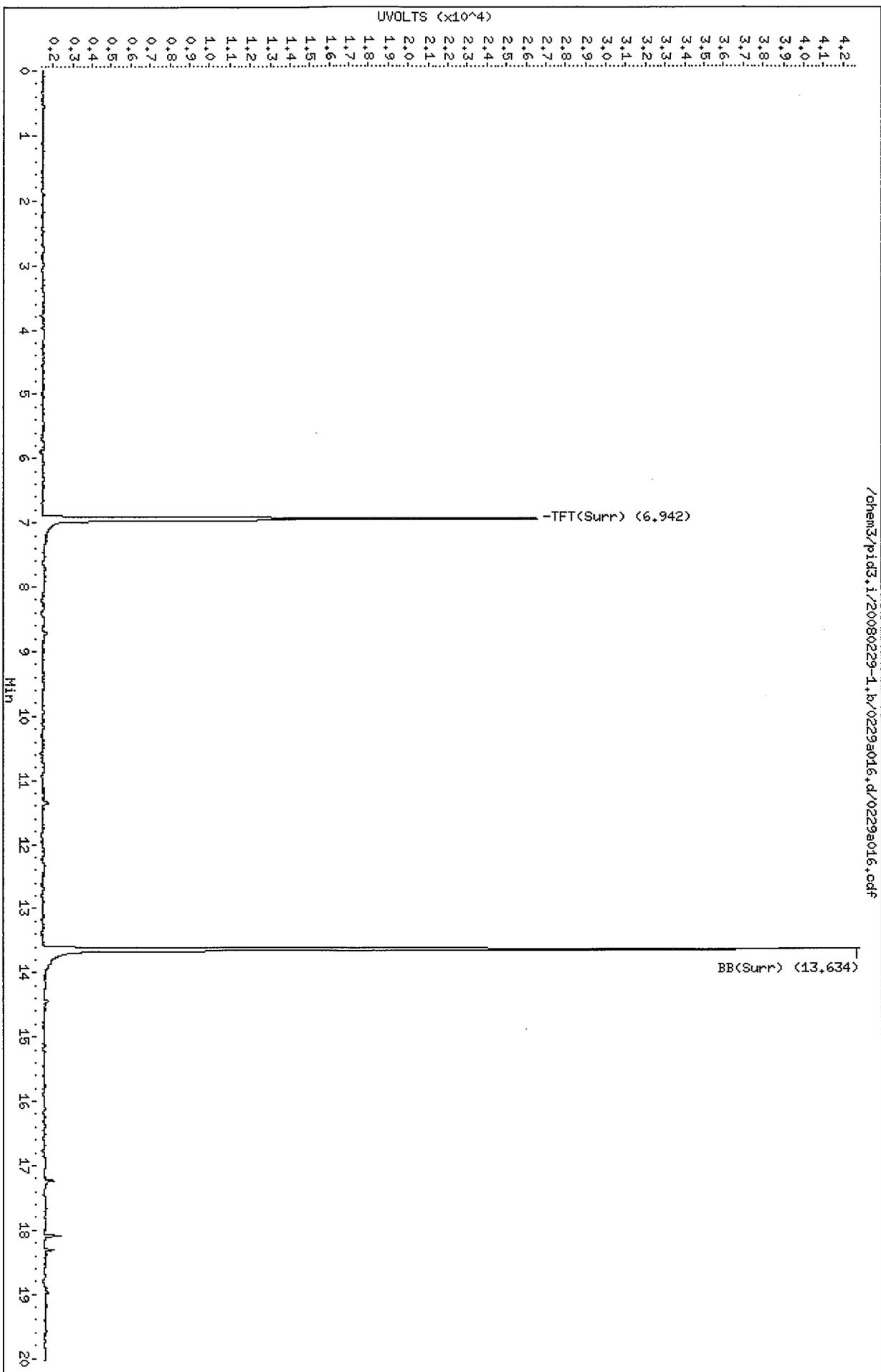
/chem3/pid3.i/20080229-2.b/0229a016.d/0229a016.cdf



Data File: /chem3/pid3.i/20080229-1.b/0229a016.d
Date: 29-FEB-2008 17:30
Client ID: KILN2-M
Sample Info: MK72E

Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



PC
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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080229-2.b/0229a007.d ARI ID: MK72G
Data file 2: /chem3/pid3.i/20080229-1.b/0229a007.d Client ID: TRIP BLANKS
Method: /chem3/pid3.i/20080229-1.b/PIDB.m Injection Date: 29-FEB-2008 13:48
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.956	0.012	7187	92696	102.4	TFT(Surr)
13.647	0.010	3483	39427	103.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	7712	0.009
8015B (2MP-TMB)	1	0.000
AKGas (nC6-nC10)	0	0.000
NWGas (Tol-Nap)	12394	0.014

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.954	0.011	28039	100.4	TFT(Surr)
13.645	0.009	47364	99.6	BB(Surr)

AROMATICS (PID)

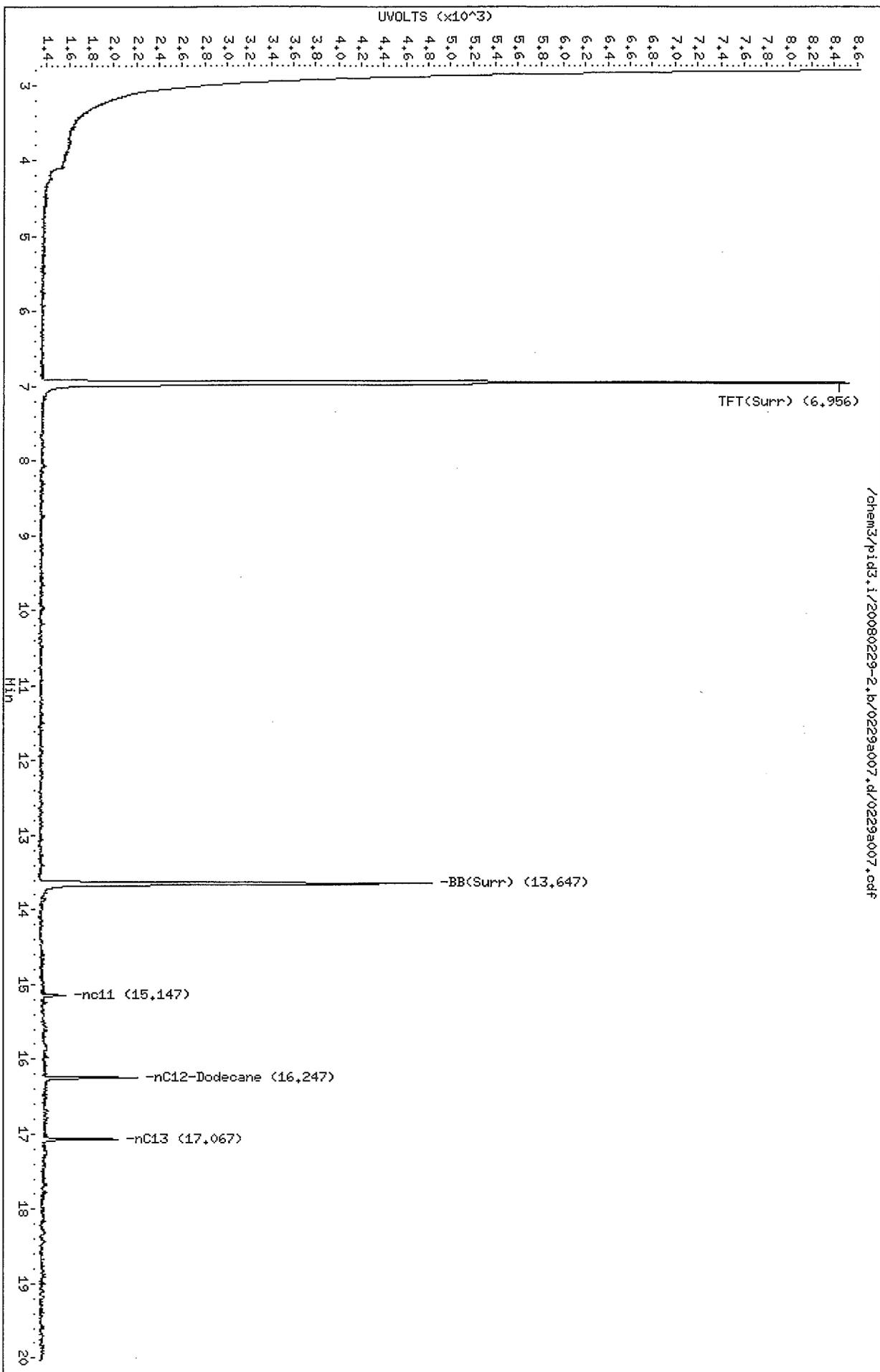
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080229-2.b/0229a007.d
Date: 29-FEB-2008 13:48
Client ID: TRIP BLANKS
Sample Info: HK72C

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



Data File: /chem3/pid3.i/20080229-1.b/0229a007.d

Date: 29-FEB-2008 13:48

Client ID: TRIP BLANKS

Sample Info: MK72G

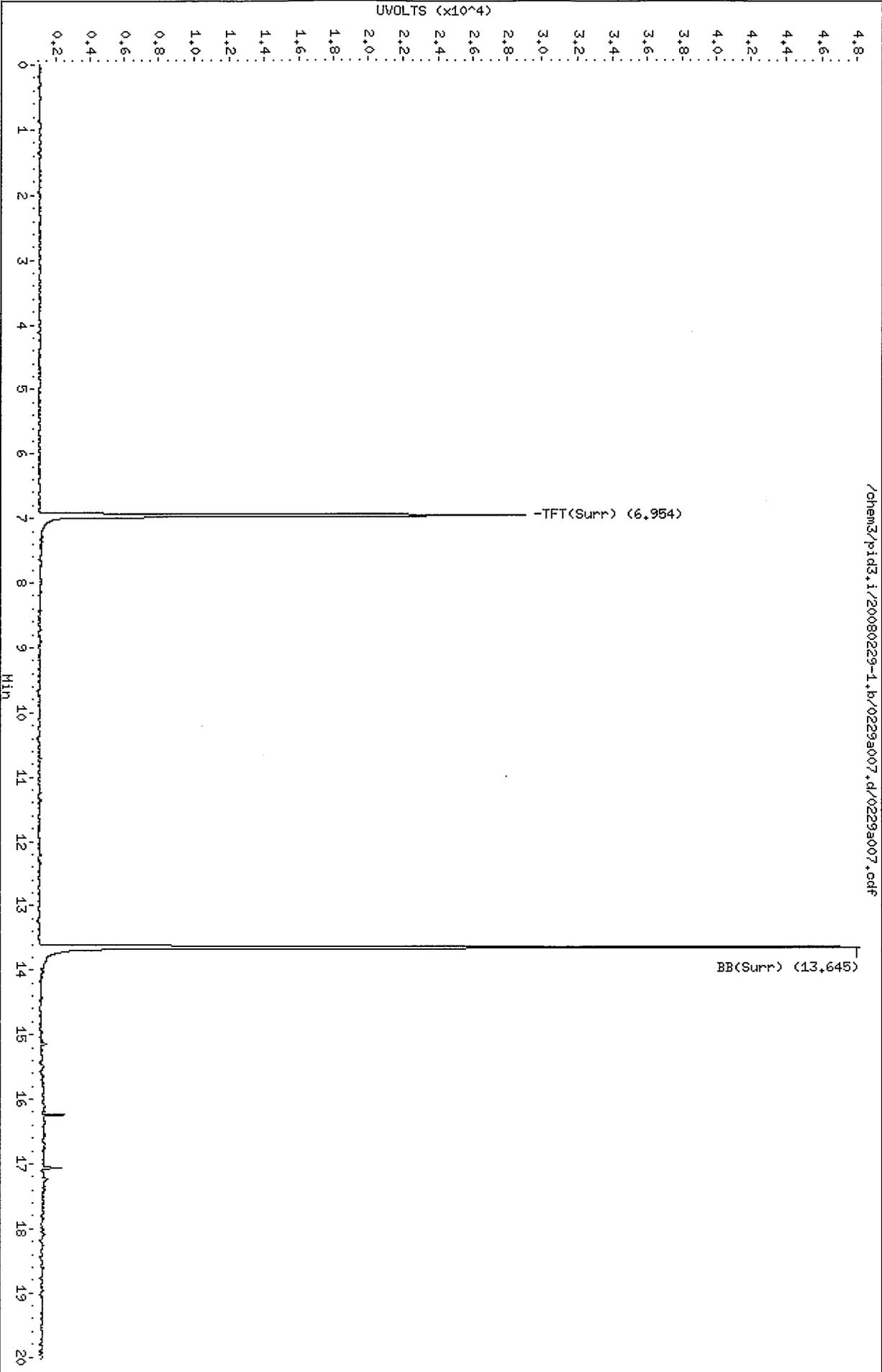
Instrument: pid3.i

Operator: PC

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid3.i/20080229-1.b/0229a007.d/0229a007.cdf



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a007.d ARI ID: MB030308S1
Data file 2: /chem3/pid3.i/20080303-1.b/0303a007.d Client ID:
Method: /chem3/pid3.i/20080303-1.b/PIDB.m Injection Date: 03-MAR-2008 13:04
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.933	-0.015	6780	88714	96.6	TFT(Surr)
13.629	-0.009	3408	38968	100.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	5280	0.006
8015B (2MP-TMB)	1	0.000
AKGas (nC6-nC10)	1	0.000
NWGas (Tol-Nap)	8598	0.010

* Surrogate areas are subtracted from Total Area
=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.932	-0.002	26615	95.3	TFT(Surr)
13.627	0.001	47138	99.1	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

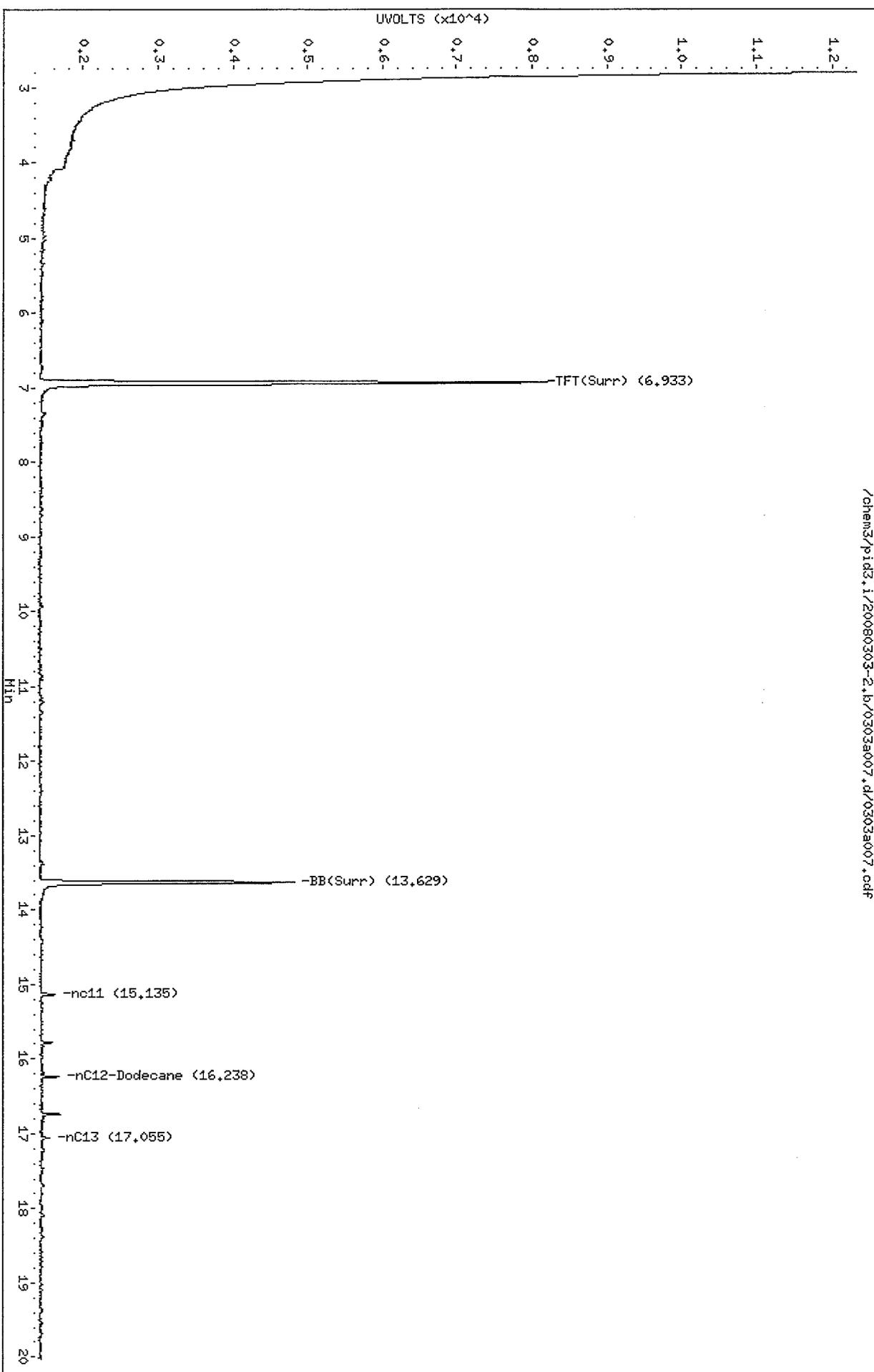
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080303-2.b/0303a007.d
Date: 03-MAR-2008 13:04
Client ID:
Sample Info: HB030308S1

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18

/chem3/pid3.i/20080303-2.b/0303a007.d/0303a007.cdf



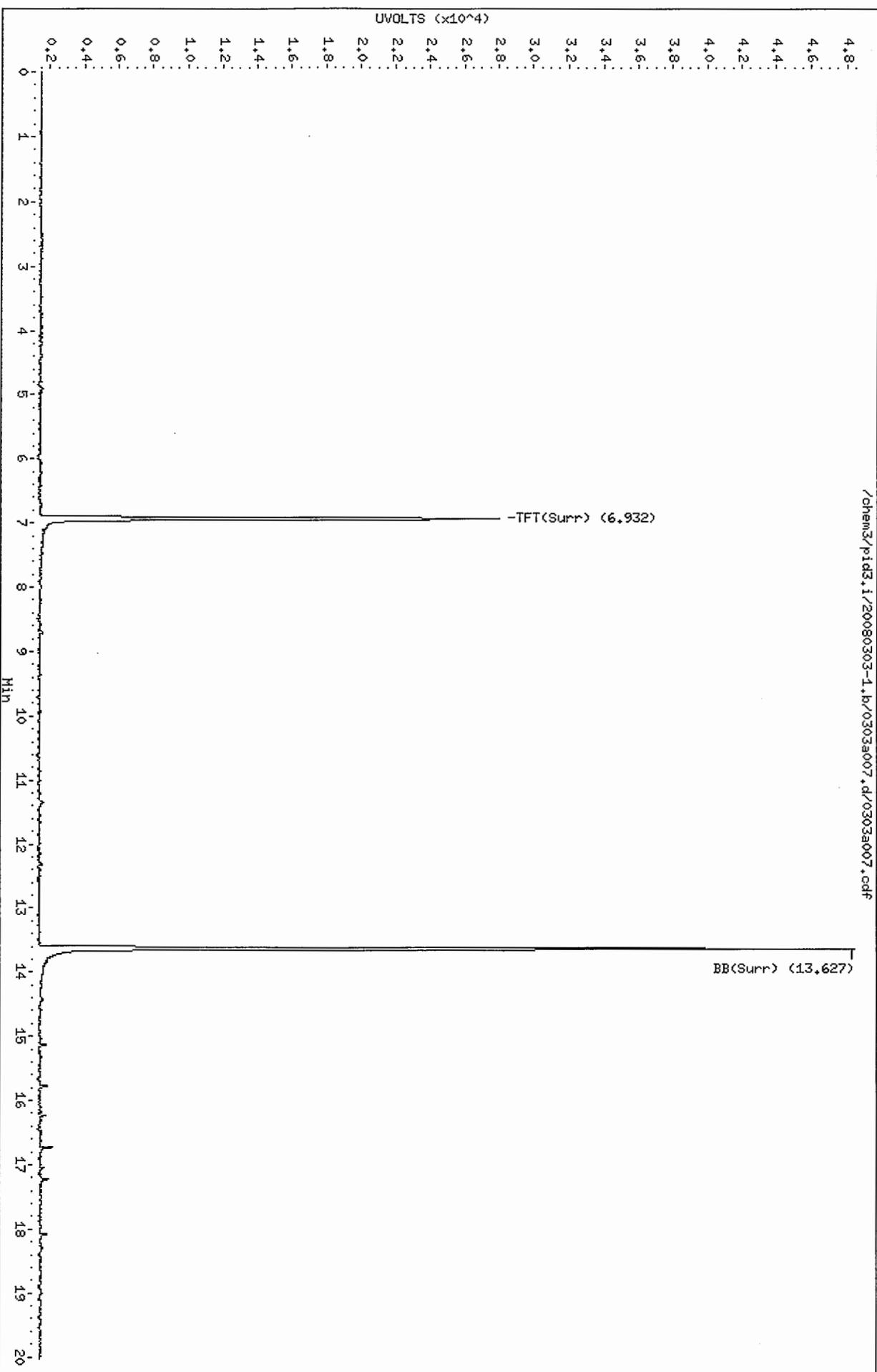
Data File: /chem3/pid3.i/20080303-1.b/0303a007.d
Date: 03-MAR-2008 13:04
Client ID:
Sample Info: MB030308S1

Instrument: pid3.i

Column phase: RTX 502-2 PID

Operator: PC
Column diameter: 0.18

/chem3/pid3.i/20080303-1.b/0303a007.d/0303a007.cdf



PC
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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a005.d ARI ID: LCS030308S1
Data file 2: /chem3/pid3.i/20080303-1.b/0303a005.d Client ID:
Method: /chem3/pid3.i/20080303-1.b/PIDB.m Injection Date: 03-MAR-2008 12:15
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.939	-0.009	6919	95865	98.6	TFT(Surr)
13.631	-0.007	3502	40932	103.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	881754	1.056
8015B (2MP-TMB)	1841210	1.050
AKGas (nC6-nC10)	1283748	1.048
NWGas (Tol-Nap)	926906	1.061

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.937	0.004	27471	98.4	TFT(Surr)
13.629	0.002	48183	101.3	BB(Surr)

AROMATICS (PID)

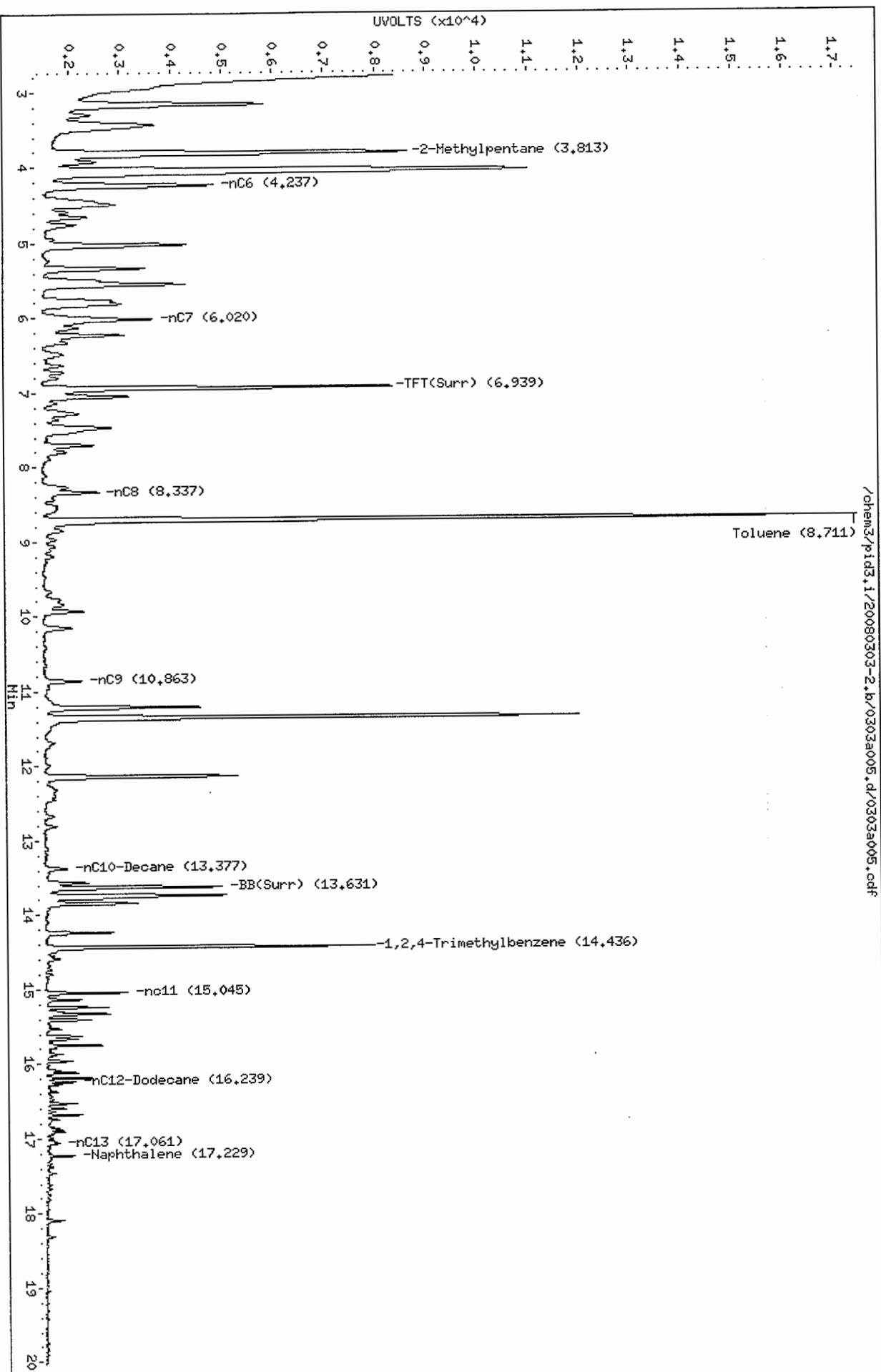
RT	Shift	Response	Amount	Compound
6.226	0.005	11517	6.66	Benzene
8.709	0.003	103967	58.14	Toluene
11.210	0.002	17646	10.90	Ethylbenzene
11.348	0.005	72082	40.95	M/P-Xylene
12.136	0.002	22022	14.75	O-Xylene
4.055	0.007	39127	81.87	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080303-2.b/0303a005.d
Date: 03-MAR-2008 12:15
Client ID:
Sample Info: LCS030308S1

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



Data File: /chem3/pid3.i/20080303-1.b/0303a005.d

Date: 03-MAR-2008 12:15

Client ID:

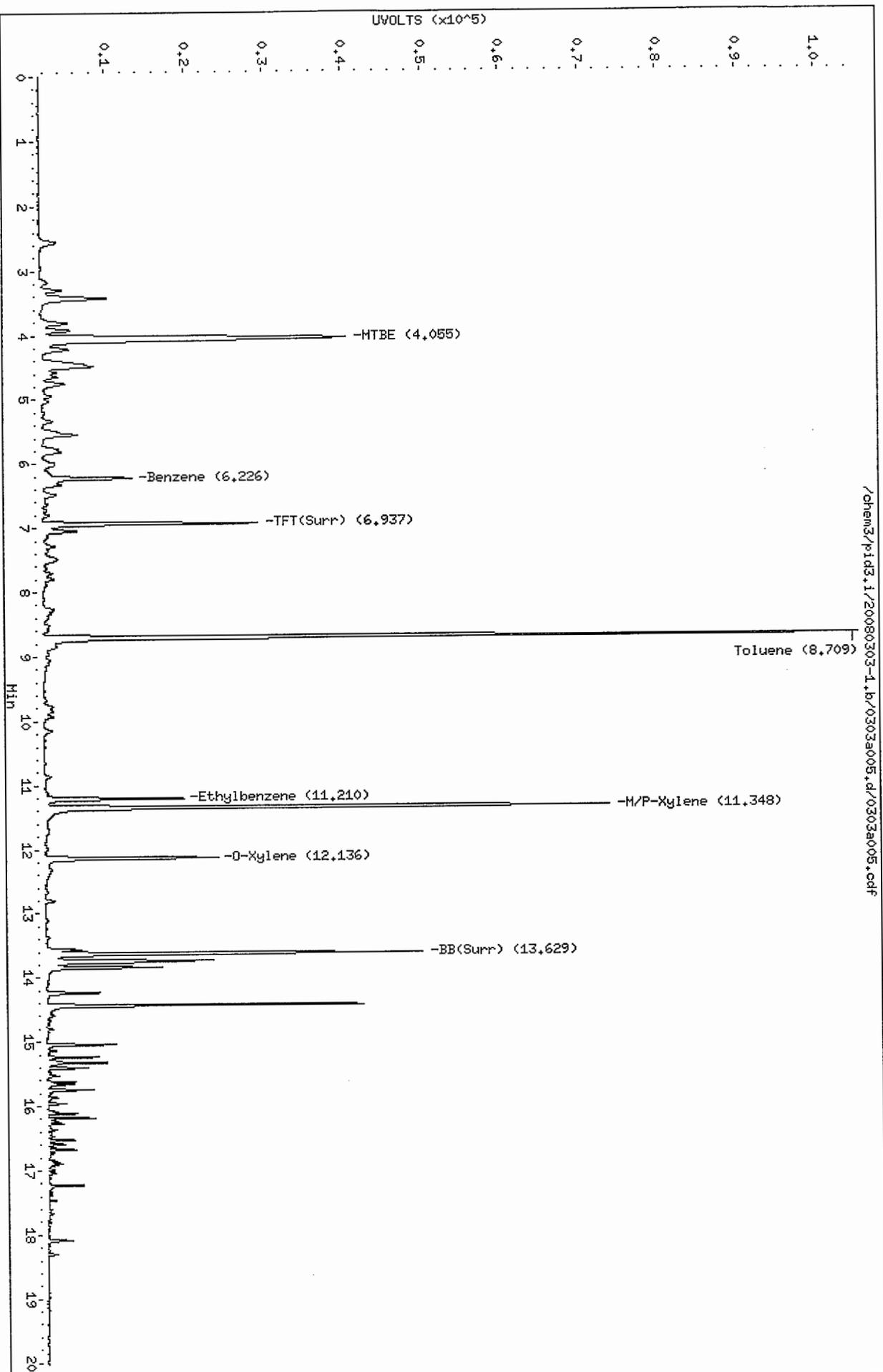
Sample Info: LCS030308S1

Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: PC

Column diameter: 0.18



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a006.d ARI ID: LCSD030308S1
Data file 2: /chem3/pid3.i/20080303-1.b/0303a006.d Client ID:
Method: /chem3/pid3.i/20080303-1.b/PIDB.m Injection Date: 03-MAR-2008 12:39
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.939	-0.008	6692	92937	95.4	TFT(Surr)
13.631	-0.007	3397	39709	100.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	803810	0.963
8015B (2MP-TMB)	1694469	0.966
AKGas (nC6-nC10)	1169558	0.954
NWGas (Tol-Nap)	847846	0.971

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.937	0.004	26612	95.3	TFT (Surr)
13.629	0.002	46945	98.7	BB (Surr)

AROMATICS (PID)

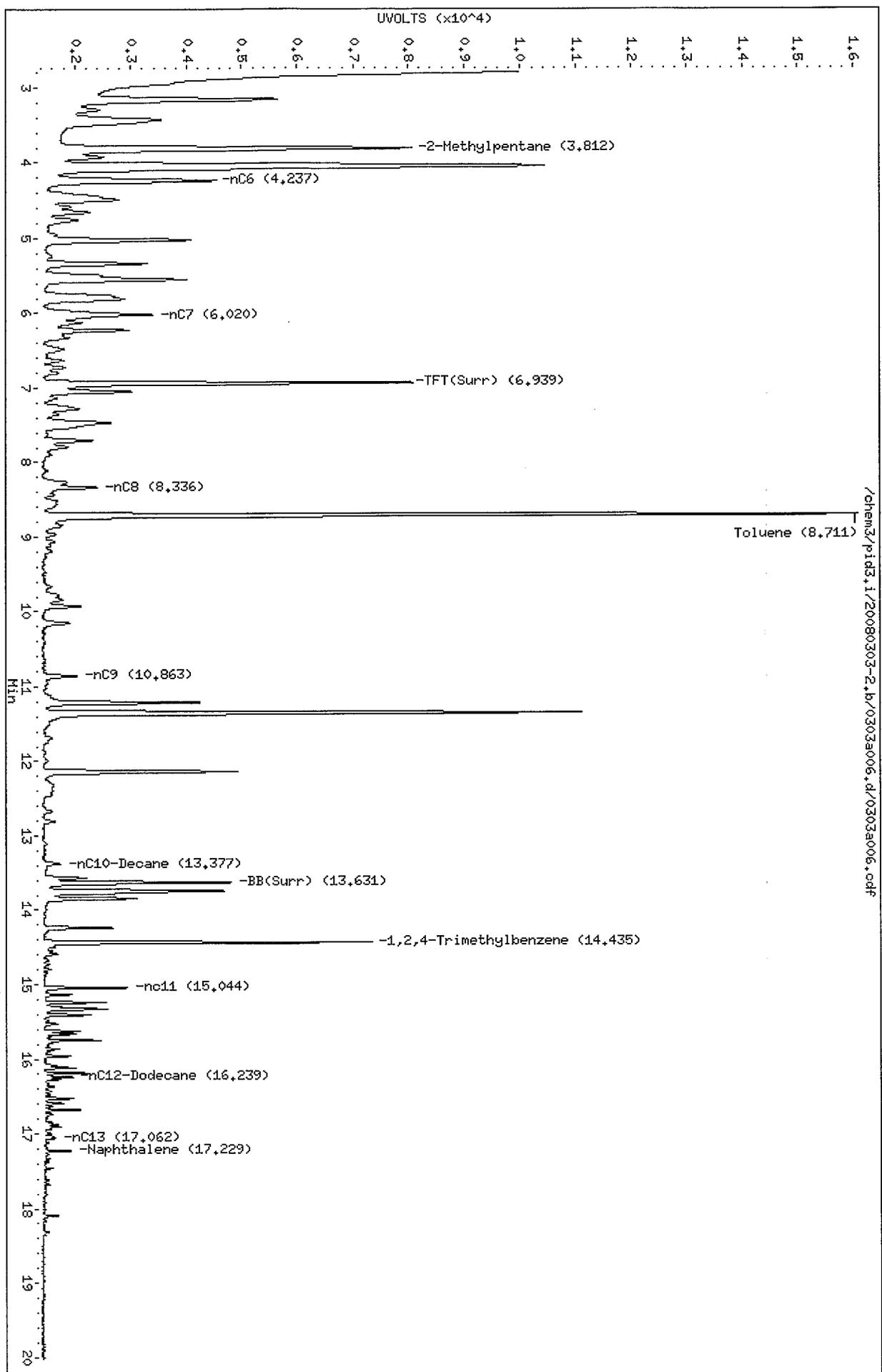
RT	Shift	Response	Amount	Compound
6.225	0.004	10698	6.19	Benzene
8.709	0.004	96068	53.73	Toluene
11.210	0.002	16459	10.16	Ethylbenzene
11.348	0.004	67164	38.15	M/P-Xylene
12.136	0.002	20379	13.65	O-Xylene
4.055	0.007	37481	78.42	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080303-2.b/0303a006.d
Date: 03-MAR-2008 12:39
Client ID:
Sample Info: LCSD030308S1

Column Phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



Data File: /chem3/pid3.i/20080303-1.b/0303a006.d

Date: 03-MAR-2008 12:39

Client ID:

Sample Info: LCSD030308S1

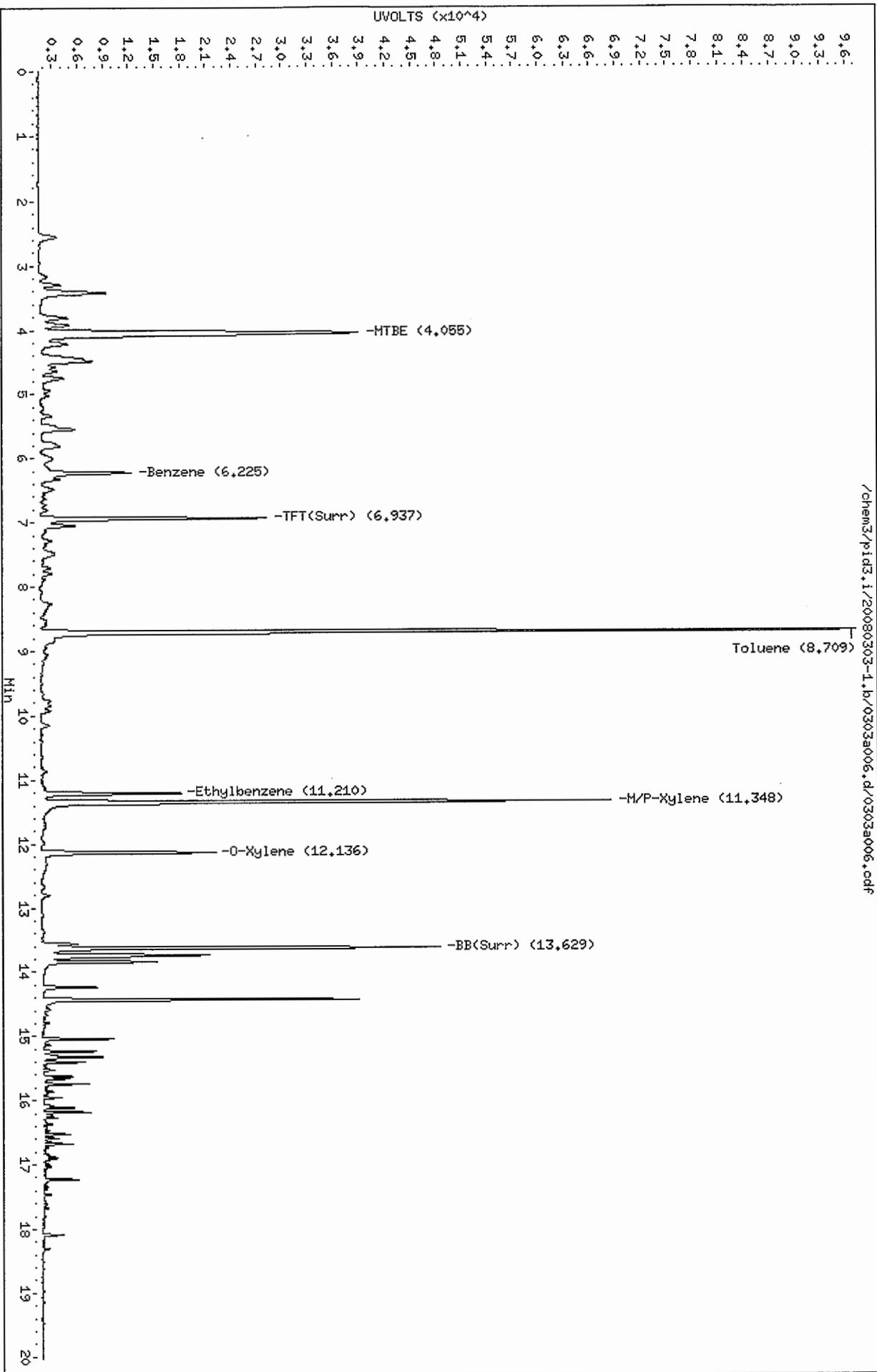
Instrument: pid3.i

Operator: PC

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid3.i/20080303-1.b/0303a006.d/0303a006.cdf



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a008.d ARI ID: MK72F
Data file 2: /chem3/pid3.i/20080303-1.b/0303a008.d Client ID: KILN1-W
Method: /chem3/pid3.i/20080303-1.b/PIDB.m Injection Date: 03-MAR-2008 13:45
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.950	0.002	7096	94535	101.1	TFT(Surr)
13.639	0.002	3483	40143	103.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	6639	0.008
8015B (2MP-TMB)	2976	0.002
AKGas (nC6-nC10)	1792	0.001
NWGas (Tol-Nap)	7808	0.009

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.948	0.014	28068	100.5	TFT(Surr)
13.637	0.010	48373	101.7	BB(Surr)

AROMATICS (PID)

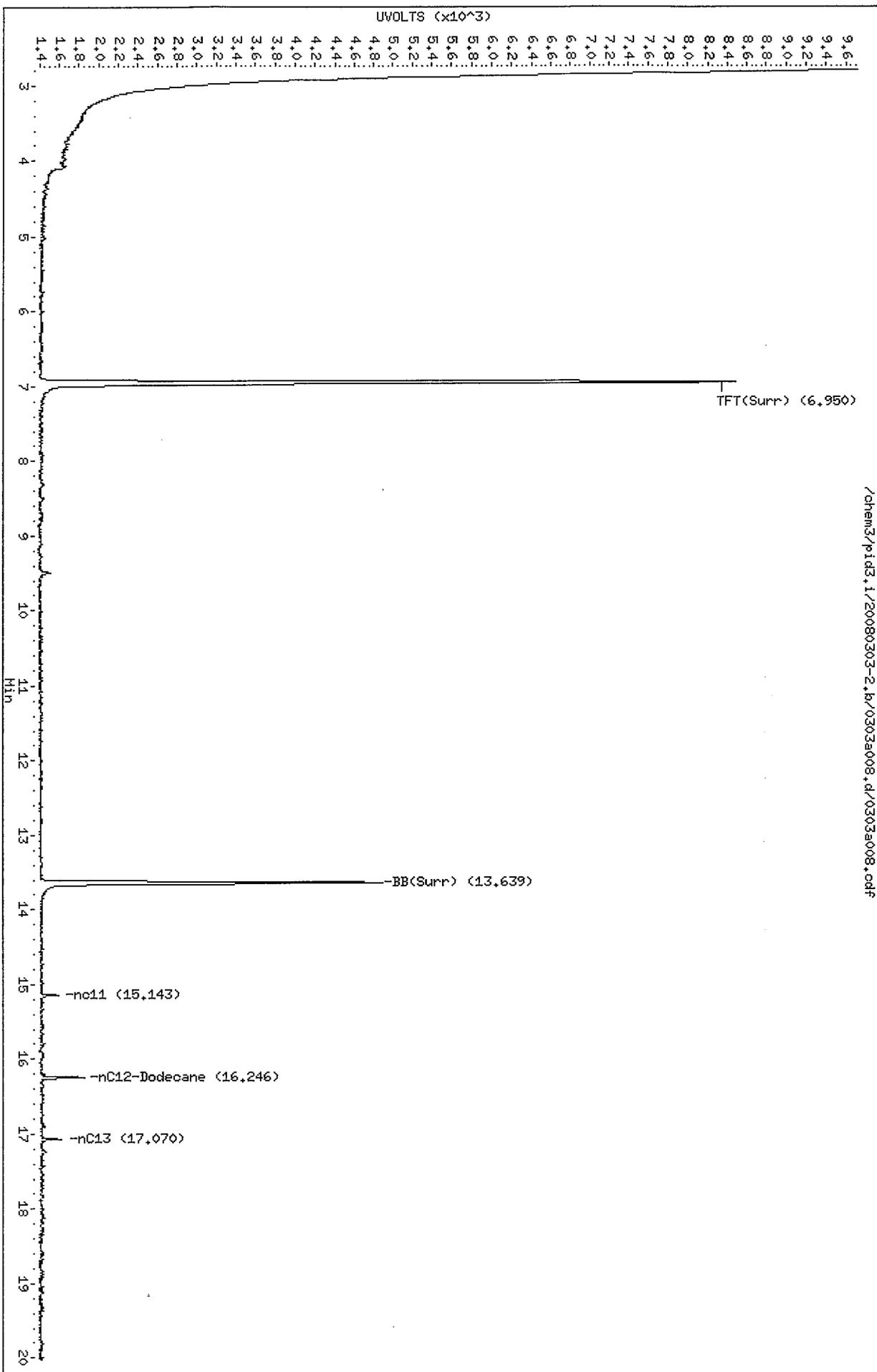
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080303-2.b/0303a008.d
Date † 03-MAR-2008 13:45
Client ID: KILN1-M
Sample Info: HK72F

Column Phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18

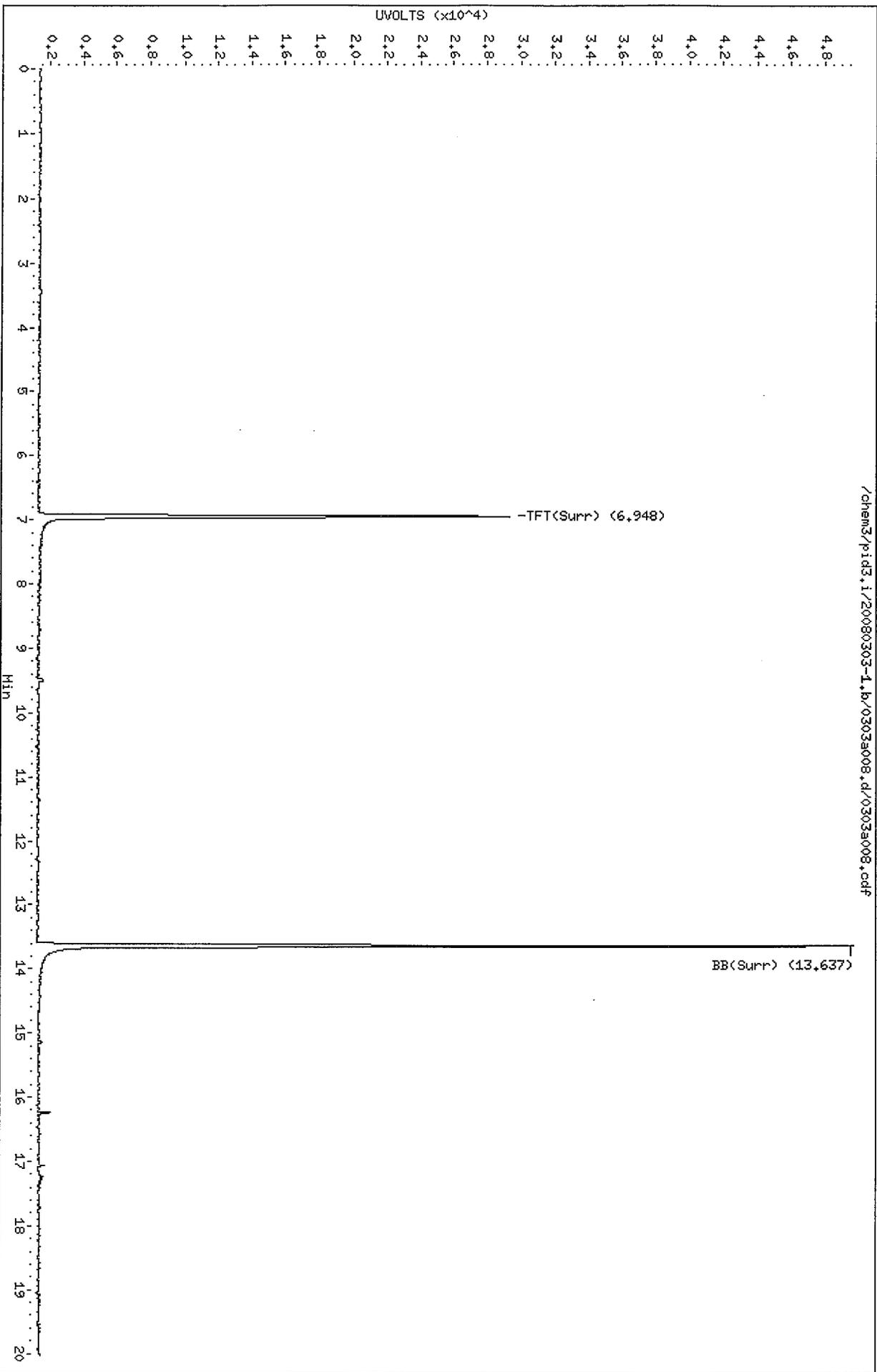


Data File: /chem3/pid3.i/20080303-1.b/0303a008.d
Date † 03-MAR-2008 13:45
Client ID† KILN1-M
Sample Info† HK72F

Instrument† pid3.i

Column Phase† RTX 502-2 PID

Operator† PC
Column diameter† 0.18



ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2Sample ID: MB-022908
METHOD BLANKLab Sample ID: MB-022908
LIMS ID: 08-3889
Matrix: Water
Data Release Authorized:
Reported: 03/05/08 QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: NA
Date Received: NADate Extracted: 02/29/08
Date Analyzed: 03/04/08 11:40
Instrument/Analyst: NT6/LJRSample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: MB-022908
METHOD BLANK

Lab Sample ID: MB-022908
LIMS ID: 08-3889
Matrix: Water
Date Analyzed: 03/04/08 11:40

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-12-0	1-Methylnaphthalene	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	77.6%	2-Fluorobiphenyl	70.8%
d14-p-Terphenyl	64.8%	d4-1,2-Dichlorobenzene	60.0%
d5-Phenol	79.7%	2-Fluorophenol	74.4%
2,4,6-Tribromophenol	84.8%	d4-2-Chlorophenol	77.1%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2Sample ID: EVP-W
SAMPLE

Lab Sample ID: MK72A

QC Report No: MK72-Parametrix, Inc.

LIMS ID: 08-3889

Project: Yakima

Matrix: Water

555-5753-001

Data Release Authorized:

Date Sampled: 02/28/08

Reported: 03/05/08

Date Received: 02/28/08

Date Extracted: 02/29/08

Sample Amount: 500 mL

Date Analyzed: 03/04/08 21:00

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/LJR

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: EVP-W
SAMPLE

Lab Sample ID: MK72A
LIMS ID: 08-3889
Matrix: Water
Date Analyzed: 03/04/08 21:00

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-12-0	1-Methylnaphthalene	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	70.4%	2-Fluorobiphenyl	62.0%
d14-p-Terphenyl	42.4%	d4-1,2-Dichlorobenzene	50.0%
d5-Phenol	67.5%	2-Fluorophenol	66.1%
2,4,6-Tribromophenol	85.3%	d4-2-Chlorophenol	68.3%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: EVP-WD
SAMPLE

Lab Sample ID: MK72B
LIMS ID: 08-3890
Matrix: Water
Data Release Authorized:
Reported: 03/05/08

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/28/08
Date Received: 02/28/08

Date Extracted: 02/29/08
Date Analyzed: 03/04/08 21:34
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: EVP-WD
SAMPLE

Lab Sample ID: MK72B
LIMS ID: 08-3890
Matrix: Water
Date Analyzed: 03/04/08 21:34

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-12-0	1-Methylnaphthalene	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.2%	2-Fluorobiphenyl	58.4%
d14-p-Terphenyl	38.8%	d4-1,2-Dichlorobenzene	48.0%
d5-Phenol	62.7%	2-Fluorophenol	62.1%
2,4,6-Tribromophenol	82.1%	d4-2-Chlorophenol	65.1%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2Sample ID: KILN2-W
SAMPLE

Lab Sample ID: MK72E

QC Report No: MK72-Parametrix, Inc.

LIMS ID: 08-3893

Project: Yakima

Matrix: Water

555-5753-001

Data Release Authorized: 

Date Sampled: 02/28/08

Reported: 03/05/08

Date Received: 02/28/08

Date Extracted: 02/29/08

Sample Amount: 500 mL

Date Analyzed: 03/04/08 22:09

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/LJR

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: KILN2-W
SAMPLE

Lab Sample ID: MK72E
LIMS ID: 08-3893
Matrix: Water
Date Analyzed: 03/04/08 22:09

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	35
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-12-0	1-Methylnaphthalene	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	66.0%	2-Fluorobiphenyl	57.6%
d14-p-Terphenyl	42.0%	d4-1,2-Dichlorobenzene	53.2%
d5-Phenol	64.8%	2-Fluorophenol	63.5%
2,4,6-Tribromophenol	75.5%	d4-2-Chlorophenol	66.4%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: KILN1-W
SAMPLE

Lab Sample ID: MK72F

QC Report No: MK72-Parametrix, Inc.

LIMS ID: 08-3894

Project: Yakima

Matrix: Water

555-5753-001

Data Release Authorized: 

Date Sampled: 02/28/08

Reported: 03/05/08

Date Received: 02/28/08

Date Extracted: 02/29/08

Sample Amount: 500 mL

Date Analyzed: 03/04/08 22:43

Final Extract Volume: 0.50 mL

Instrument/Analyst: NT6/LJR

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	2.0
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	11
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: KILN1-W
SAMPLE

Lab Sample ID: MK72F
LIMS ID: 08-3894
Matrix: Water
Date Analyzed: 03/04/08 22:43

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-12-0	1-Methylnaphthalene	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	74.8%	2-Fluorobiphenyl	54.0%
d14-p-Terphenyl	39.0%	d4-1,2-Dichlorobenzene	53.6%
d5-Phenol	72.5%	2-Fluorophenol	72.3%
2,4,6-Tribromophenol	77.6%	d4-2-Chlorophenol	74.1%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2Sample ID: LCS-022908
LAB CONTROLLab Sample ID: LCS-022908
LIMS ID: 08-3889
Matrix: Water
Data Release Authorized:
Reported: 03/05/08 QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/28/08
Date Received: 02/28/08Date Extracted: 02/29/08
Date Analyzed: 03/04/08 12:15
Instrument/Analyst: NT6/LJR
GPC Cleanup: NOSample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

Analyte	Lab Control	Spike Added	Recovery
Phenol	19.1	25.0	76.4%
Bis-(2-Chloroethyl) Ether	19.4	25.0	77.6%
2-Chlorophenol	19.1	25.0	76.4%
1,3-Dichlorobenzene	11.0	25.0	44.0%
1,4-Dichlorobenzene	11.0	25.0	44.0%
Benzyl Alcohol	35.6	50.0	71.2%
1,2-Dichlorobenzene	12.1	25.0	48.4%
2-Methylphenol	19.1	25.0	76.4%
2,2'-Oxybis(1-Chloropropane)	20.0	25.0	80.0%
4-Methylphenol	40.0	50.0	80.0%
N-Nitroso-Di-N-Propylamine	19.3	25.0	77.2%
Hexachloroethane	9.6	25.0	38.4%
Nitrobenzene	19.7	25.0	78.8%
Isophorone	21.0	25.0	84.0%
2-Nitrophenol	18.9	25.0	75.6%
2,4-Dimethylphenol	15.9	25.0	63.6%
Benzoic Acid	51.5	75.0	68.7%
bis(2-Chloroethoxy) Methane	19.6	25.0	78.4%
2,4-Dichlorophenol	19.8	25.0	79.2%
1,2,4-Trichlorobenzene	11.9	25.0	47.6%
Naphthalene	15.6	25.0	62.4%
4-Chloroaniline	38.6	60.0	64.3%
Hexachlorobutadiene	9.2	25.0	36.8%
4-Chloro-3-methylphenol	19.6	25.0	78.4%
2-Methylnaphthalene	15.3	25.0	61.2%
Hexachlorocyclopentadiene	29.9	75.0	39.9%
2,4,6-Trichlorophenol	21.5	25.0	86.0%
2,4,5-Trichlorophenol	20.9	25.0	83.6%
2-Chloronaphthalene	16.8	25.0	67.2%
2-Nitroaniline	20.4	25.0	81.6%
Dimethylphthalate	18.6	25.0	74.4%
Acenaphthylene	18.9	25.0	75.6%
3-Nitroaniline	53.9	64.0	84.2%
Acenaphthene	17.8	25.0	71.2%
2,4-Dinitrophenol	66.4	75.0	88.5%
4-Nitrophenol	20.5	25.0	82.0%
Dibenzofuran	18.6	25.0	74.4%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: LCS-022908
LAB CONTROL

Lab Sample ID: LCS-022908
LIMS ID: 08-3889
Matrix: Water
Date Analyzed: 03/04/08 12:15

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001

Analyte	Lab Control	Spike Added	Recovery
2,6-Dinitrotoluene	20.0	25.0	80.0%
2,4-Dinitrotoluene	20.1	25.0	80.4%
Diethylphthalate	19.0	25.0	76.0%
4-Chlorophenyl-phenylether	18.8	25.0	75.2%
Fluorene	19.4	25.0	77.6%
4-Nitroaniline	20.3	25.0	81.2%
4,6-Dinitro-2-Methylphenol	62.2	75.0	82.9%
N-Nitrosodiphenylamine	23.3	25.0	93.2%
4-Bromophenyl-phenylether	19.2	25.0	76.8%
Hexachlorobenzene	19.1	25.0	76.4%
Pentachlorophenol	22.0	25.0	88.0%
Phenanthrene	19.7	25.0	78.8%
Carbazole	22.4	25.0	89.6%
Anthracene	20.0	25.0	80.0%
Di-n-Butylphthalate	22.1	25.0	88.4%
Fluoranthene	23.9	25.0	95.6%
Pyrene	15.0	25.0	60.0%
Butylbenzylphthalate	19.6	25.0	78.4%
3,3'-Dichlorobenzidine	45.7	64.0	71.4%
Benzo(a)anthracene	19.4	25.0	77.6%
bis(2-Ethylhexyl)phthalate	22.1	25.0	88.4%
Chrysene	18.9	25.0	75.6%
Di-n-Octyl phthalate	19.9	25.0	79.6%
Benzo(b)fluoranthene	21.3	25.0	85.2%
Benzo(k)fluoranthene	21.4	25.0	85.6%
Benzo(a)pyrene	20.0	25.0	80.0%
Indeno(1,2,3-cd)pyrene	18.4	25.0	73.6%
Dibenz(a,h)anthracene	18.9	25.0	75.6%
Benzo(g,h,i)perylene	18.2	25.0	72.8%
1-Methylnaphthalene	16.0	25.0	64.0%

Semivolatile Surrogate Recovery

d5-Nitrobenzene	82.4%
2-Fluorobiphenyl	79.6%
d14-p-Terphenyl	64.0%
d4-1,2-Dichlorobenzene	65.6%
d5-Phenol	81.9%
2-Fluorophenol	80.8%
2,4,6-Tribromophenol	89.1%
d4-2-Chlorophenol	78.4%

Results reported in µg/L

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MB-030508
METHOD BLANK

Lab Sample ID: MB-030508
LIMS ID: 08-3889
Matrix: Water
Data Release Authorized: 
Reported: 03/13/08

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: NA
Date Received: NA

Date Extracted: 03/05/08
Date Analyzed: 03/07/08 13:58
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 100 mL
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	72.0%
Tetrachlorometaxylene	73.8%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: EVP-W
SAMPLE

Lab Sample ID: MK72A
LIMS ID: 08-3889
Matrix: Water
Data Release Authorized: 
Reported: 03/13/08

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/28/08
Date Received: 02/28/08

Date Extracted: 03/05/08
Date Analyzed: 03/07/08 14:32
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 100 mL
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	81.8%
Tetrachlorometaxylene	74.2%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: EVP-WD
SAMPLE

Lab Sample ID: MK72B
LIMS ID: 08-3890
Matrix: Water
Data Release Authorized: 
Reported: 03/13/08

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/28/08
Date Received: 02/28/08

Date Extracted: 03/05/08
Date Analyzed: 03/07/08 14:49
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 100 mL
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in $\mu\text{g/L}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	73.5%
Tetrachlorometaxylene	63.8%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LCS-030508
LAB CONTROL

Lab Sample ID: LCS-030508
LIMS ID: 08-3889
Matrix: Water
Data Release Authorized: 
Reported: 03/13/08

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: NA
Date Received: NA

Date Extracted: 03/05/08
Date Analyzed: 03/07/08 14:15
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 100 mL
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	4.13	5.00	82.6%
Aroclor 1260	4.64	5.00	92.8%

PCB Surrogate Recovery

Decachlorobiphenyl	87.0%
Tetrachlorometaxylene	80.5%

Results reported in µg/L

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Water

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Received: 02/28/08

Data Release Authorized: *[Signature]*
Reported: 03/06/08

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-030308 08-3889	Method Blank HC ID: ---	03/03/08	03/05/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	< 0.25 U < 0.50 U 90.2%
MK72A 08-3889	EVP-W HC ID: DRO/RRO	03/03/08	03/05/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	1.3 2.1 85.8%
MK72B 08-3890	EVP-WD HC ID: DRO/RRO	03/03/08	03/05/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	1.3 1.8 87.1%
MK72C 08-3891	STL-W HC ID: DRO/RRO	03/03/08	03/05/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	2.6 2.3 84.9%
MK72D 08-3892	REC-W HC ID: DRO/RRO	03/03/08	03/05/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	1.4 1.1 82.4%
MK72E 08-3893	KILN2-W HC ID: ---	03/03/08	03/05/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	< 0.25 U < 0.50 U 90.4%
MK72F 08-3894	KILN1-W HC ID: DRO/RRO	03/03/08	03/05/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.25 0.50	0.28 0.98 90.2%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID

Page 1 of 1

Sample ID: LCS-030308

LCS/LCSD

Lab Sample ID: LCS-030308

LIMS ID: 08-3889

Matrix: Water

Data Release Authorized:

Reported: 03/06/08

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: NA

Date Received: NA

Date Extracted LCS/LCSD: 03/03/08

Sample Amount LCS: 500 mL

LCSD: 500 mL

Date Analyzed LCS: 03/05/08 03:11

Final Extract Volume LCS: 1.0 mL

LCSD: 03/05/08 03:26

LCSD: 1.0 mL

Instrument/Analyst LCS: FID3A/MS

Dilution Factor LCS: 1.00

LCSD: FID3A/MS

LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	2.56	3.00	85.3%	2.63	3.00	87.7%	2.7%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	92.0%	94.2%

Results reported in mg/L

RPD calculated using sample concentrations per SW846.

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a043.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/05/2008
Macro: FID:3A022908

ARI ID: MK74MBW1
Client ID:
Injection: 05-MAR-2008 02:55
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.773	0.001	16189	5154	GAS (Tol-C12)	600848	15
C8	1.978	0.017	7380	6567	DIESEL (C12-C24)	281905	20
C10	2.673	-0.010	5791	8321	M.OIL (C24-C38)	286086	30
C12	3.163	0.007	4849	3663	AK-102 (C10-C25)	450511	26
C14	3.518	-0.005	4275	1107	AK-103 (C25-C36)	223661	38
C16	3.838	-0.003	3615	6608			
C18	4.113	-0.009	3002	2608			
C20	4.389	0.013	3161	567	JET-A (C10-C18)	360541	25
C22	4.612	0.000	2461	734	MIN.OIL (C24-C38)	286086	23
C24	4.838	0.003	2172	1850	MSPRIT (Tol-C12)	600848	38
C25	4.946	0.003	2274	3157	TRANOIL (C12-C28)	337758	22
C26	5.049	0.002	2104	3055	KEROSEN (Tol-C18)	794343	51
C28	5.249	-0.003	2929	3179			
C32	5.649	0.000	5265	9934	FUEL OIL(C10-C24)	448951	1
C34	5.878	-0.001	3797	1213			
Filter Peak	7.601	-0.001	2871	860	JP-4 (Tol-C14)	686326	60
C36	6.164	0.000	3341	1658	CREOSOT (C8-C22)	688740	66
C38	6.526	0.000	3162	1826	HYDRAUL (C24-C38)	286086	32
C40	7.012	0.001	2968	1244	BUNKERC (C10-C38)	735037	141

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

Surrogate	Area	Amount	%Rec
o-Terphenyl	721960	40.6	90.2
Triacontane	666527	43.8	97.3

em. 3/6/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080304.b/0304a043.d

Date: 05-MAR-2008 02:55

Client ID:

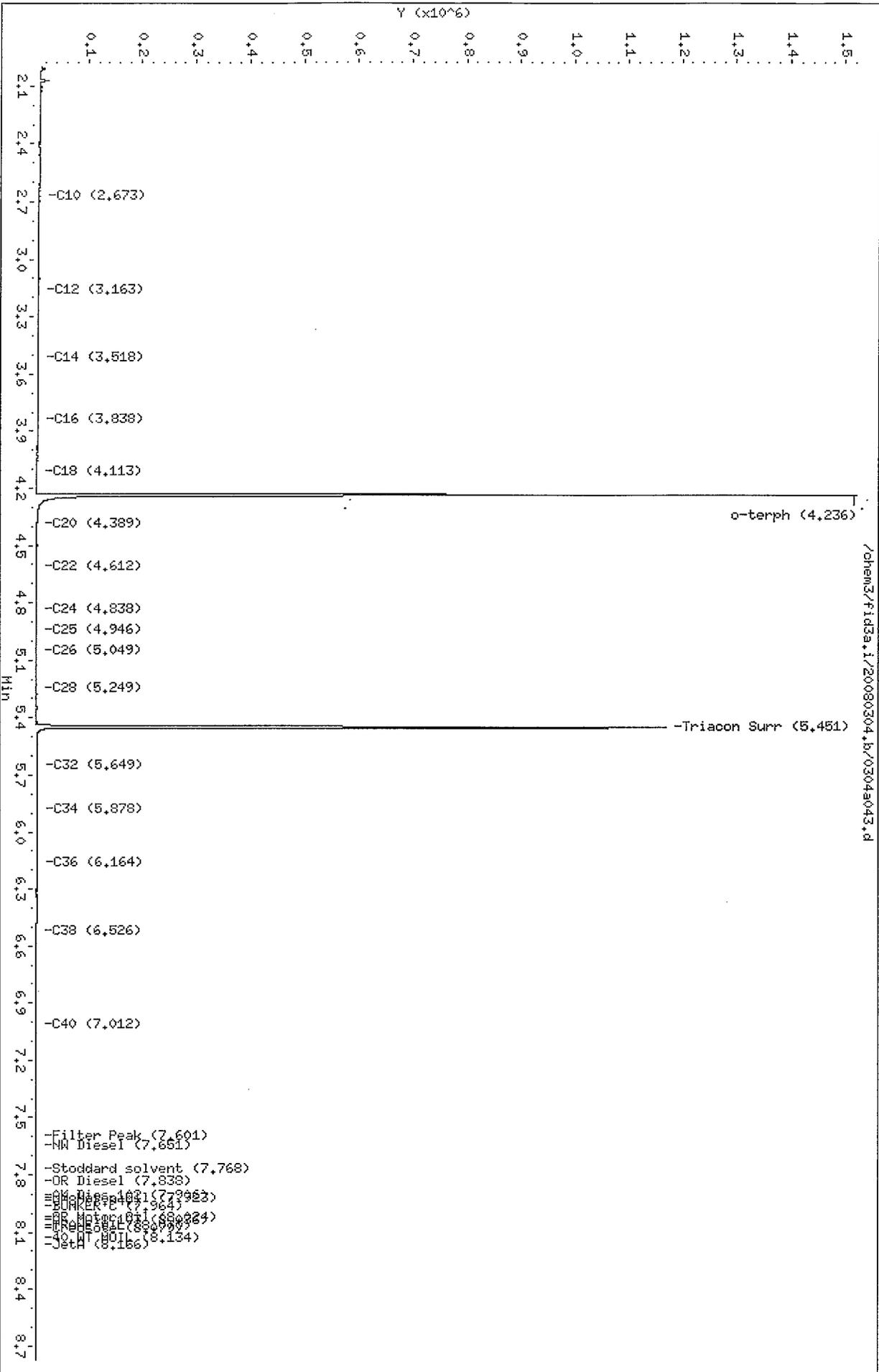
Sample Info: HK74HBM4

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a044.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/05/2008
Macro: FID:3A022908

ARI ID: MK74LCSW1
Client ID:
Injection: 05-MAR-2008 03:11
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.764	-0.008	16600	11204	GAS (Tol-C12)	3847844	94
C8	1.954	-0.006	11562	11118	DIESEL (C12-C24)	18491828	1279
C10	2.686	0.004	224702	140526	M.OIL (C24-C38)	623737	65
C12	3.157	0.001	592784	286661	AK-102 (C10-C25)	21449919	1253
C14	3.524	0.000	862162	481885	AK-103 (C25-C36)	562626	95
C16	3.843	0.003	908102	449926			
C18	4.126	0.005	668796	484479			
C20	4.381	0.005	508225	346052	JET-A (C10-C18)	16132797	1134
C22	4.614	0.002	220004	174325	MIN.OIL (C24-C38)	623737	50
C24	4.834	-0.001	94052	101481	MSPIRIT (Tol-C12)	3847844	243
C25	4.940	-0.003	55230	51912	TRANOIL (C12-C28)	18859201	1237
C26	5.044	-0.003	30925	35400	KEROSEN (Tol-C18)	17022550	1103
C28	5.247	-0.004	9767	11111			
C32	5.647	-0.002	5673	7795	FUEL OIL(C10-C24)	21449919	40
C34	5.878	-0.001	3840	1375			
Filter Peak	7.597	-0.004	2787	833	JP-4 (Tol-C14)	8119880	715
C36	6.162	-0.001	3371	3086	CREOSOT (C8-C22)	21526121	2065
C38	6.525	-0.001	3045	1155	HYDRAUL (C24-C38)	623737	70
C40	7.011	0.000	2847	1763	BUNKERC (C10-C38)	22073656	4222

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

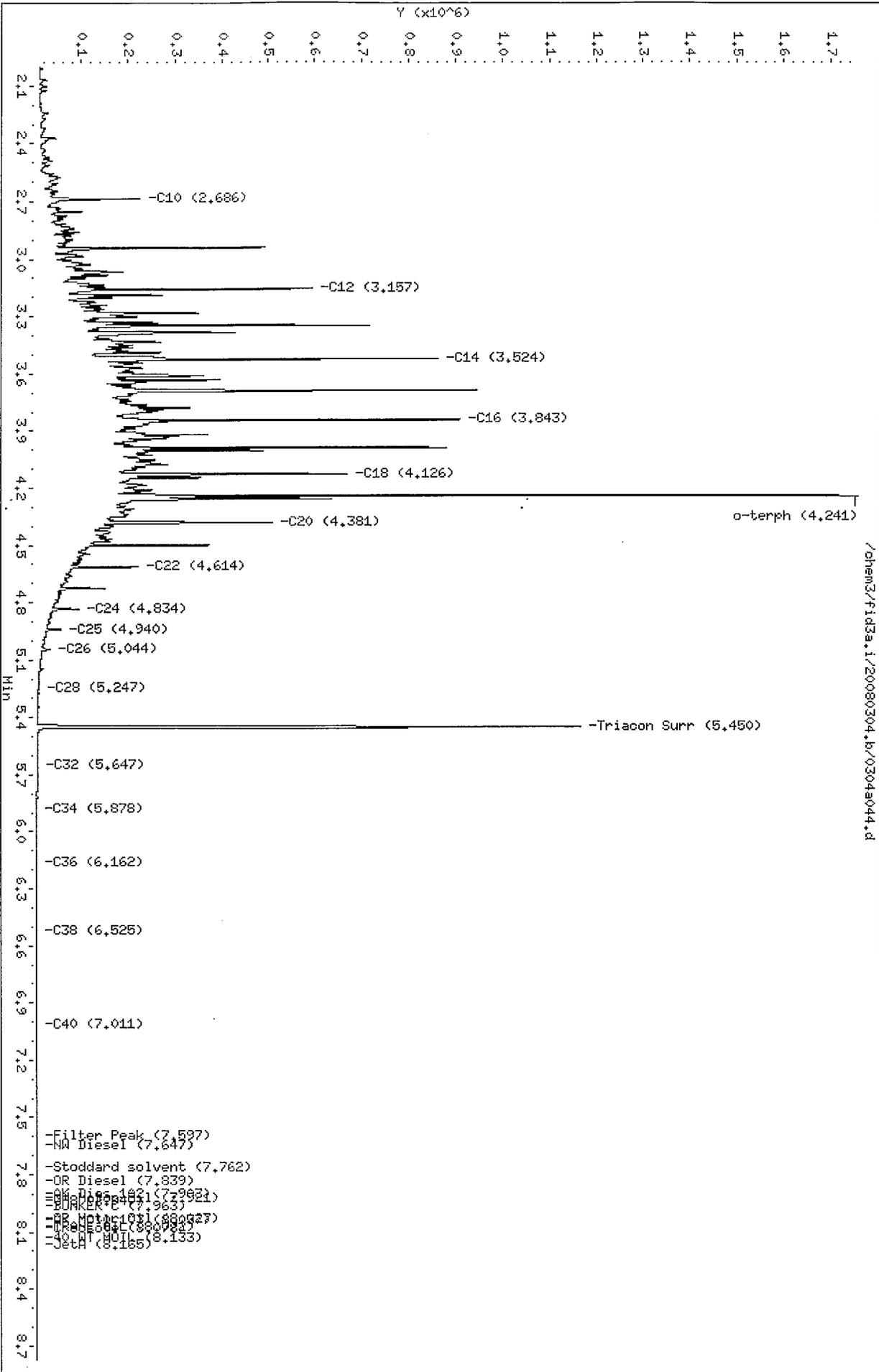
Surrogate	Area	Amount	%Rec
o-Terphenyl	735872	41.4	92.0
Triacontane	674762	44.3	98.5

m.o. 3/6/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080304.br/0304a044.d
Date: 05-MAR-2008 03:11
Client ID:
Sample Info: MK74LCSM4
Column phase: RTX-1

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a045.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/05/2008
Macro: FID:3A022908

ARI ID: MK74LCSDW1
Client ID:
Injection: 05-MAR-2008 03:26
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.776	0.003	16876	10698	GAS (Tol-C12)	4020154	99
C8	1.956	-0.005	11559	11223	DIESEL (C12-C24)	19043010	1317
C10	2.685	0.002	230986	147145	M.OIL (C24-C38)	638844	67
C12	3.157	0.001	604256	353015	AK-102 (C10-C25)	22151784	1294
C14	3.523	-0.001	896536	401203	AK-103 (C25-C36)	577012	97
C16	3.843	0.002	946455	458032			
C18	4.126	0.004	701696	478749			
C20	4.381	0.006	526493	355791	JET-A (C10-C18)	16542488	1163
C22	4.616	0.004	230716	185472	MIN.OIL (C24-C38)	638844	51
C24	4.838	0.003	99156	77541	MSPIRIT (Tol-C12)	4020154	254
C25	4.945	0.002	57811	52466	TRANOIL (C12-C28)	19423265	1274
C26	5.050	0.003	31634	39258	KEROSEN (Tol-C18)	17453868	1131
C28	5.254	0.002	10031	14323			
C32	5.655	0.006	5691	10781	FUEL OIL(C10-C24)	22151784	42
C34	5.884	0.006	3864	1003			
Filter Peak	7.597	-0.005	2720	1896	JP-4 (Tol-C14)	8353724	735
C36	6.168	0.005	3389	877	CREOSOT (C8-C22)	22136846	2124
C38	6.528	0.002	3088	739	HYDRAUL (C24-C38)	638844	72
C40	7.016	0.005	2840	1747	BUNKERC (C10-C38)	22790627	4359

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

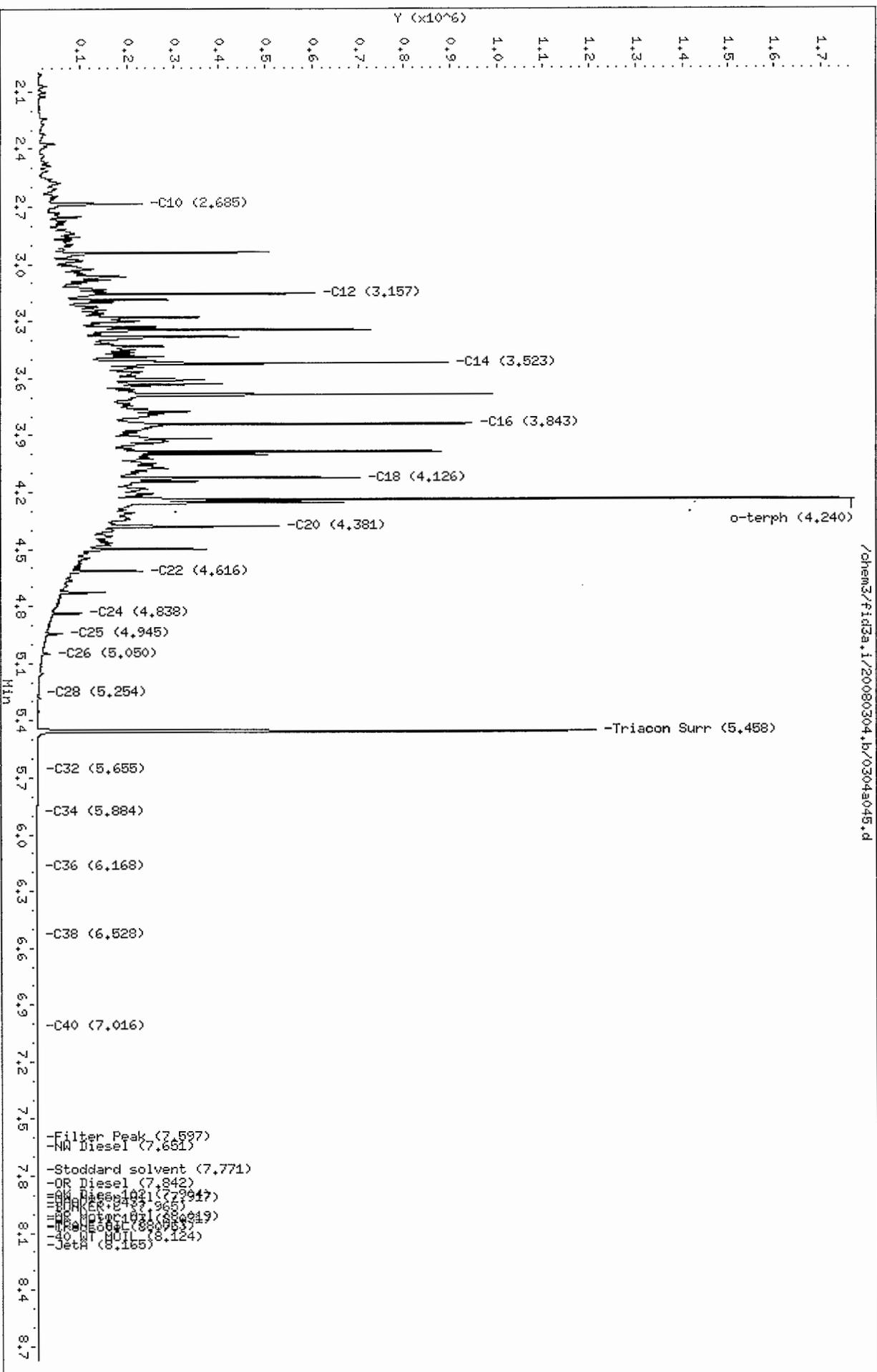
Surrogate	Area	Amount	%Rec
o-Terphenyl	753671	42.4	94.2
Triacontane	699638	46.0	102.1

Q.M.R 3/6/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a,1/20080304,b/0304a045.d
 Date: 05-MAR-2008 03:26
 Client ID:
 Sample Info: HK74LCS004
 Column phase: RTX-1

Instrument: fid3a,1
 Operator: JR
 Column diameter: 0.25



/chem3/fid3a,1/20080304,b/0304a045.d

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a048.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/05/2008
Macro: FID:3A022908

ARI ID: MK72A
Client ID:
Injection: 05-MAR-2008 04:12
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.772	0.000	16297	5182	GAS (Tol-C12)	792442	19
C8	1.954	-0.007	7832	6831	DIESEL (C12-C24)	9494069	657
C10	2.678	-0.004	7038	4614	M.OIL (C24-C38)	10011943	1042
C12	3.163	0.007	31656	64181	AK-102 (C10-C25)	9951528	581
C14	3.536	0.012	88920	103719	AK-103 (C25-C36)	8944719	1510
C16	3.839	-0.001	33220	14943			
C18	4.122	0.000	46758	28007			
C20	4.369	-0.006	158546	102168	JET-A (C10-C18)	2272474	160
C22	4.610	-0.002	165254	126328	MIN.OIL (C24-C38)	10011943	801
C24	4.832	-0.002	150554	38863	MSPRIT (Tol-C12)	792442	50
C25	4.945	0.002	176828	75894	FRANOIL (C12-C28)	13221617	867
C26	5.048	0.001	161307	76356	KEROSEN (Tol-C18)	2693219	175
C28	5.251	0.000	137476	51497			
C32	5.651	0.002	108513	34488	FUEL OIL(C10-C24)	9865766	19
C34	5.881	0.003	91126	45319			
Filter Peak	7.600	-0.001	11838	8145	JP-4 (Tol-C14)	1222335	108
C36	6.162	-0.001	66238	43554	CREOSOT (C8-C22)	6082997	584
C38	6.530	0.004	38234	14363	HYDRAUL (C24-C38)	10011943	1125
C40	7.014	0.003	21034	10639	BUNKERC (C10-C38)	19877710	3802

DRO/RPO

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

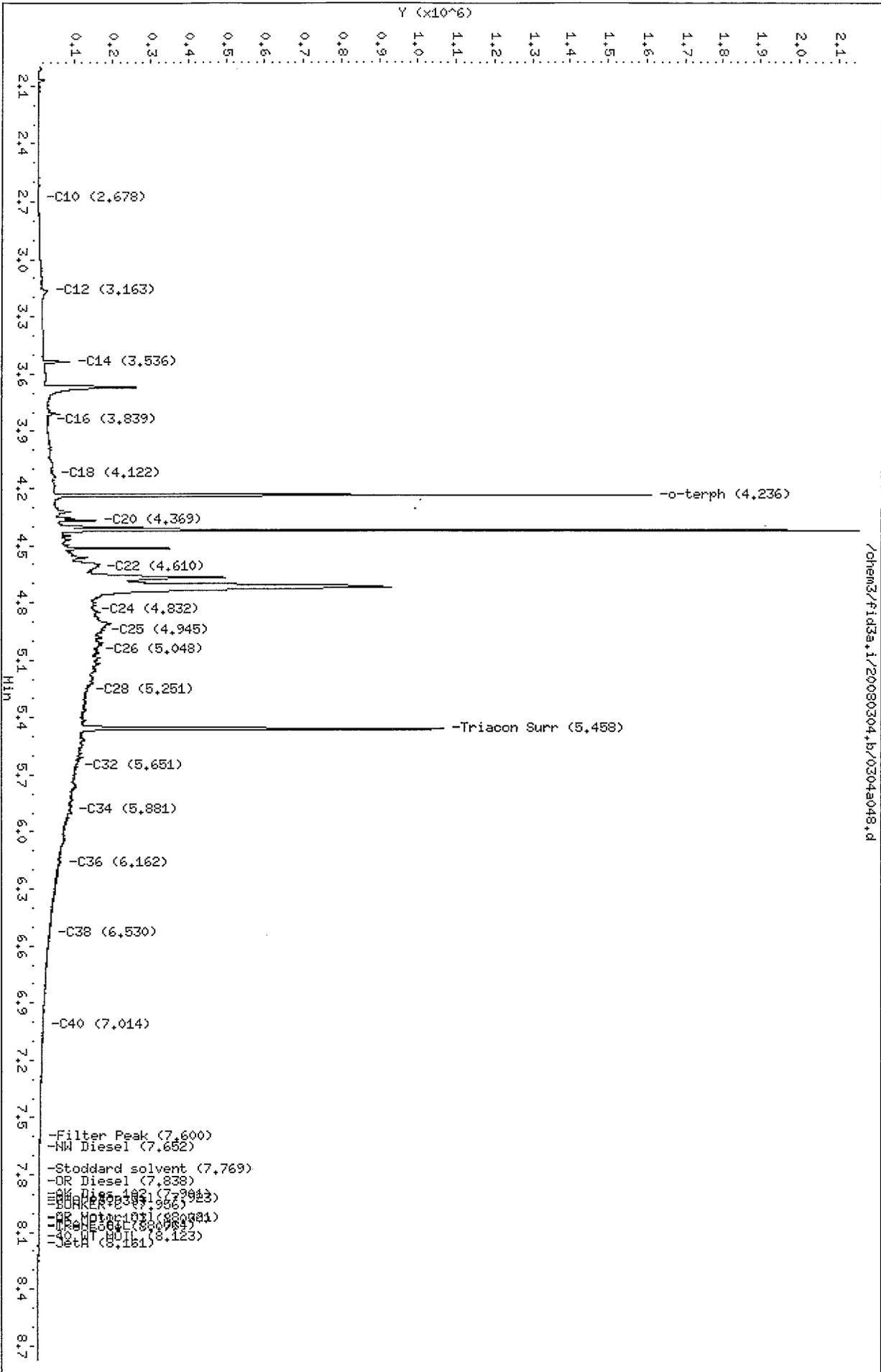
Surrogate	Area	Amount	%Rec
o-Terphenyl	687225	38.6	85.9
Triacontane	598322	39.3	87.3

m.p. 3/6/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080304.b/0304a048.d
Date: 05-MAR-2008 04:12
Client ID:
Sample Info: HK729
Column phase: RTX-1

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a049.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/05/2008
Macro: FID:3A022908

ARI ID: MK72B
Client ID:
Injection: 05-MAR-2008 04:28
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.774	0.002	16606	9874	GAS (Tol-C12)	812325	20
C8	1.955	-0.006	7915	6291	DIESEL (C12-C24)	9265529	641
C10	2.680	-0.002	7104	4392	M.OIL (C24-C38)	8422991	877
C12	3.160	0.005	34742	69231	AK-102 (C10-C25)	9722990	568
C14	3.514	-0.009	21035	9566	AK-103 (C25-C36)	7525061	1270
C16	3.839	-0.001	36289	16751			
C18	4.122	0.000	49605	21054			
C20	4.370	-0.006	125513	88364	JET-A (C10-C18)	2553866	180
C22	4.609	-0.002	163149	88791	MIN.OIL (C24-C38)	8422991	674
C24	4.834	-0.001	139403	41698	MSPIRIT (Tol-C12)	812325	51
C25	4.946	0.003	158144	43998	TRANOIL (C12-C28)	12614308	827
C26	5.048	0.001	144937	54435	KEROSEN (Tol-C18)	2982572	193
C28	5.248	-0.003	114934	77293			
C32	5.645	-0.004	88114	58613	FUEL OIL(C10-C24)	9649148	18
C34	5.882	0.003	75286	38521			
Filter Peak	7.600	-0.002	10858	4949	JP-4 (Tol-C14)	1270525	112
C36	6.165	0.001	52602	21563	CREOSOT (C8-C22)	6069447	582
C38	6.529	0.004	31630	13708	HYDRAUL (C24-C38)	8422991	947
C40	7.008	-0.003	18969	13956	BUNKERC (C10-C38)	18072139	3457

*DW
PKW*

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

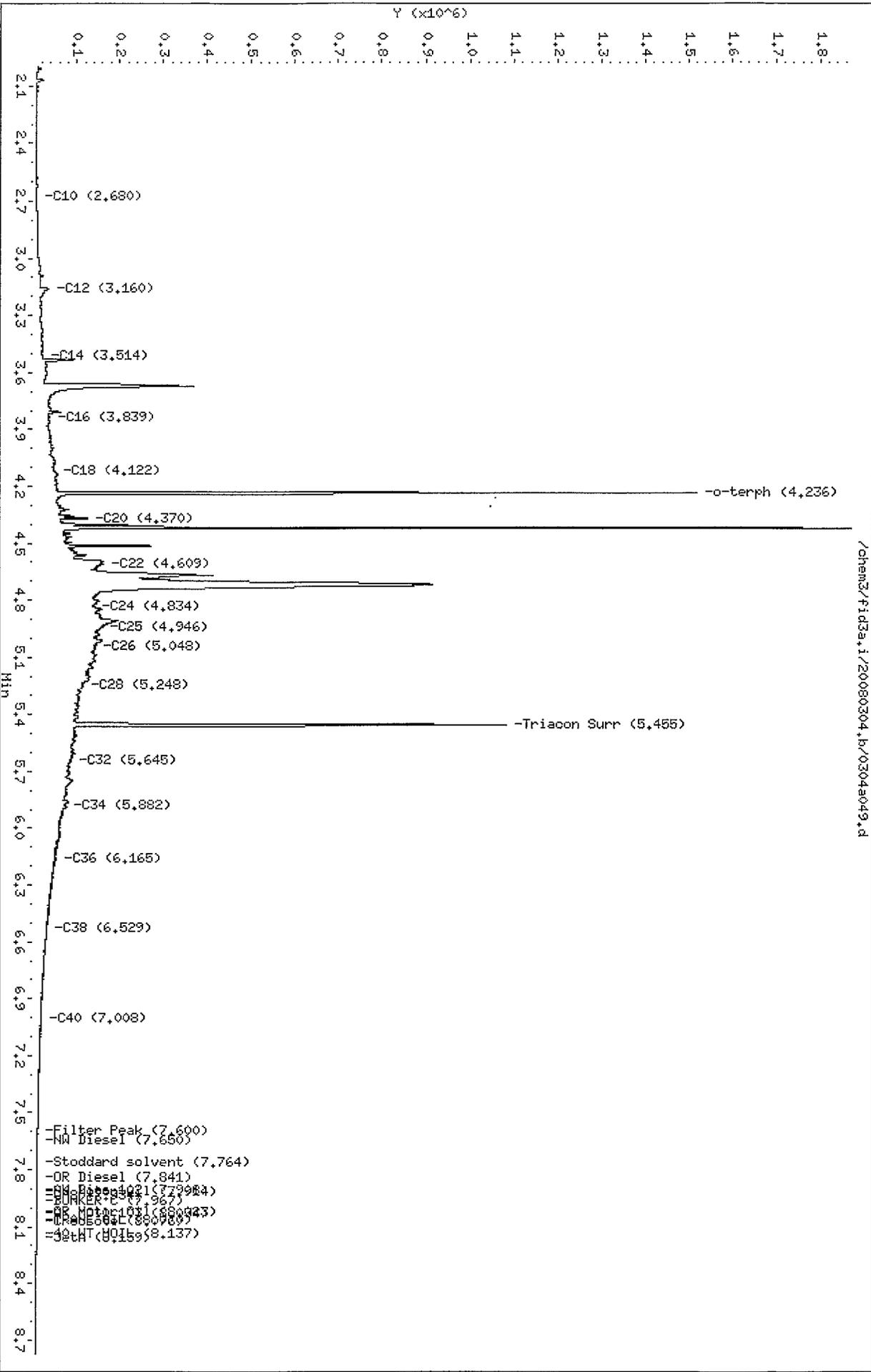
Surrogate	Area	Amount	%Rec
o-Terphenyl	697258	39.2	87.1
Triacontane	620476	40.8	90.6

mo. 3/6/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080304.b/0304a049.i.d
 Date : 05-MAR-2008 04:28
 Client ID:
 Sample Info: HK72B
 Column phase: RTX-1

Instrument: fid3a.i
 Operator: JR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a050.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/05/2008
Macro: FID:3A022908

ARI ID: MK72C
Client ID:
Injection: 05-MAR-2008 04:43
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.765	-0.007	18772	3369	GAS (Tol-C12)	2337862	57
C8	1.972	0.011	9803	5856	DIESEL (C12-C24)	18437276	1275
C10	2.693	0.011	21712	45399	M.OIL (C24-C38)	11121661	1158
C12	3.156	0.000	93382	90207	AK-102 (C10-C25)	20111040	1175
C14	3.516	-0.007	239855	441751	AK-103 (C25-C36)	10626793	1794
C16	3.838	-0.002	132265	65103			
C18	4.123	0.001	168790	99553			
C20	4.375	0.000	237982	220836	JET-A (C10-C18)	9202588	647
C22	4.613	0.001	264136	248554	MIN.OIL (C24-C38)	11121661	890
C24	4.835	0.001	355680	119860	MSPIRIT (Tol-C12)	2337862	148
C25	4.940	-0.003	443541	510222	TRANOIL (C12-C28)	25397266	1666
C26	5.049	0.002	331620	196757	KEROSEN (Tol-C18)	9957813	646
C28	5.252	0.000	234261	109344			
C32	5.653	0.004	67778	21217	FUEL OIL(C10-C24)	20019913	38
C34	5.865	-0.013	186556	314320			
Filter Peak	7.603	0.002	8480	5410	JP-4 (Tol-C14)	5378270	473
C36	6.162	-0.001	26721	12684	CREOSOT (C8-C22)	16504480	1583
C38	6.524	-0.001	16034	7627	HYDRAUL (C24-C38)	11121661	1250
C40	7.011	0.000	11341	7660	BUNKERC (C10-C38)	31141574	5956

*DPO
PRO*

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

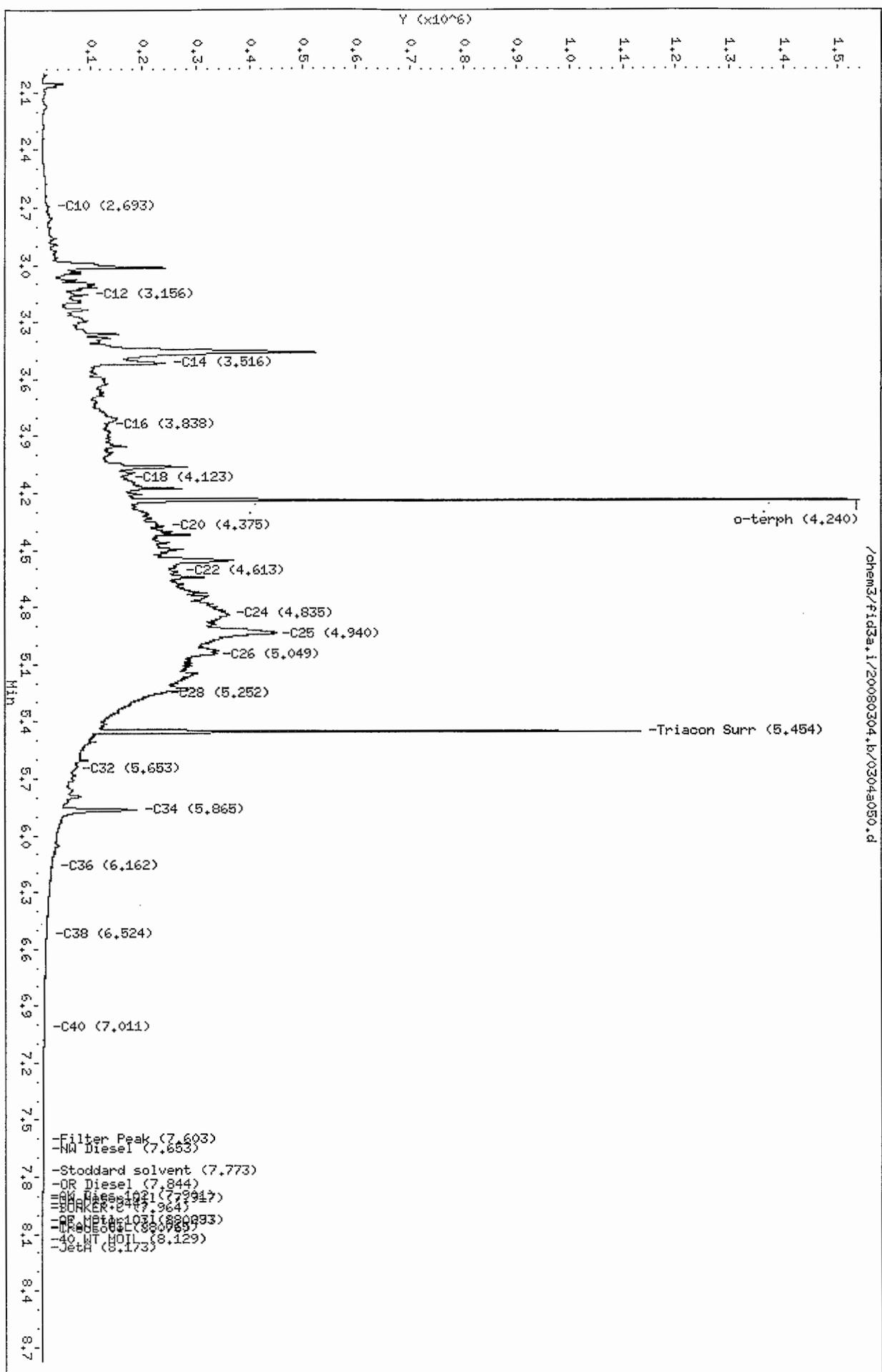
Surrogate	Area	Amount	%Rec
o-Terphenyl	678721	38.2	84.8
Triacontane	587800	38.6	85.8

m.o. 3/6/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080304.b/0304a050.d
 Date: 05-MAR-2008 04:43
 Client ID:
 Sample Info: MK72C
 Column phase: RTX-1

Instrument: fid3a.i
 Operator: JR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a055.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/05/2008
Macro: FID:3A022908

ARI ID: MK72D
Client ID:
Injection: 05-MAR-2008 06:00
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.767	-0.006	15339	5810	GAS (Tol-C12)	1028126	25
C8	1.970	0.009	8656	8849	DIESEL (C12-C24)	9755308	675
C10	2.694	0.011	13412	21833	M.OIL (C24-C38)	5438924	566
C12	3.153	-0.003	22690	22507	AK-102 (C10-C25)	10287297	601
C14	3.526	0.002	41527	65943	AK-103 (C25-C36)	5148803	869
C16	3.844	0.003	72767	61116			
C18	4.126	0.004	104474	68838			
C20	4.380	0.005	125151	41780	JET-A (C10-C18)	3675630	258
C22	4.607	-0.005	150674	104094	MIN.OIL (C24-C38)	5438924	435
C24	4.836	0.001	161188	64321	MSPIRIT (Tol-C12)	1028126	65
C25	4.937	-0.006	162176	88976	TRANOIL (C12-C28)	12825474	841
C26	5.046	-0.002	138242	92142	KEROSEN (Tol-C18)	4217551	273
C28	5.257	0.005	84488	15034			
C32	5.655	0.006	39022	6198	FUEL OIL (C10-C24)	10241513	19
C34	5.900	0.022	26428	3167			
Filter Peak	7.598	-0.003	6258	6118	JP-4 (Tol-C14)	1755495	155
C36	6.175	0.011	15339	5756	CREOSOT (C8-C22)	8447043	810
C38	6.521	-0.005	10729	11192	HYDRAUL (C24-C38)	5438924	611
C40	7.007	-0.004	8506	19521	BUNKERC (C10-C38)	15680437	2999

*pro
pro*

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

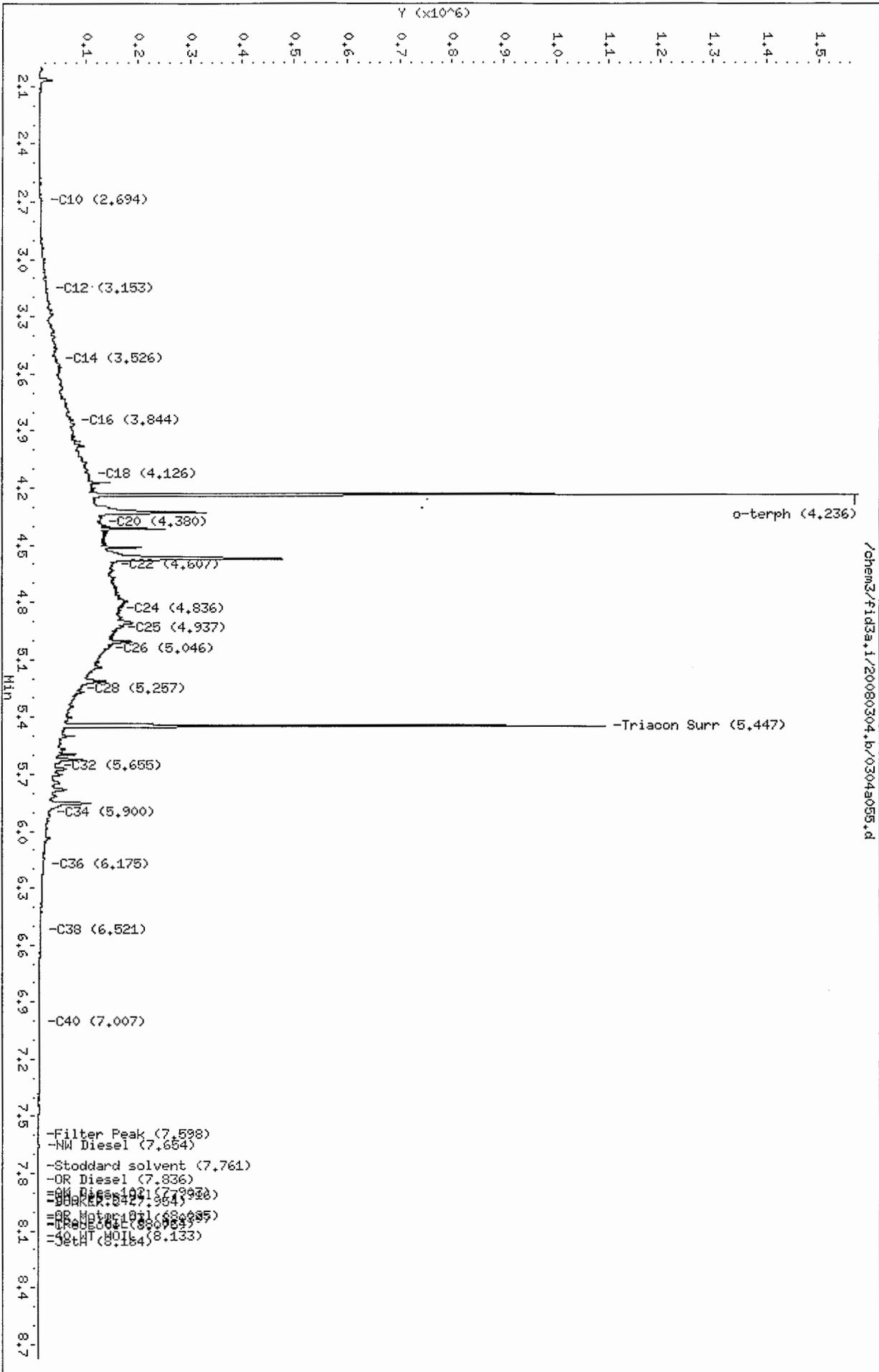
Surrogate	Area	Amount	%Rec
o-Terphenyl	659792	37.1	82.5
Triacontane	584339	38.4	85.3

m.o. 3/6/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080304.b/0304a055.d
 Date: 05-MAR-2008 06:00
 Client ID:
 Sample Info: HK72D
 Column phase: RTX-1

Instrument: fid3a.i
 Operator: JR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a057.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/05/2008
Macro: FID:3A022908

ARI ID: MK72E
Client ID:
Injection: 05-MAR-2008 06:31
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.772	0.000	15612	4050	GAS (Tol-C12)	609855	15
C8	2.001	0.040	8961	6475	DIESEL (C12-C24)	610342	42
C10	2.688	0.006	5954	1424	M.OIL (C24-C38)	733858	76
C12	3.157	0.001	5513	3194	AK-102 (C10-C25)	799652	47
C14	3.519	-0.005	5139	4779	AK-103 (C25-C36)	629085	106
C16	3.836	-0.004	5031	3732			
C18	4.126	0.005	5356	3958			
C20	4.377	0.002	7421	6847	JET-A (C10-C18)	458679	32
C22	4.612	0.001	9108	10948	MIN.OIL (C24-C38)	733858	59
C24	4.835	0.000	9046	11072	MSPRIT (Tol-C12)	609855	39
C25	4.942	0.000	11758	16056	TRANOIL (C12-C28)	797523	52
C26	5.047	0.000	11180	15498	KEROSEN (Tol-C18)	882254	57
C28	5.251	0.000	11907	17818			
C32	5.649	0.000	11740	13498	FUEL OIL(C10-C24)	796622	2
C34	5.863	-0.016	10244	18580			
Filter Peak	7.606	0.005	4275	1707	JP-4 (Tol-C14)	716414	63
C36	6.163	0.000	5988	6273	CREOSOT (C8-C22)	984614	94
C38	6.526	0.000	4970	3856	HYDRAUL (C24-C38)	733858	82
C40	7.011	0.000	4542	2357	BUNKERC (C10-C38)	1530480	293

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

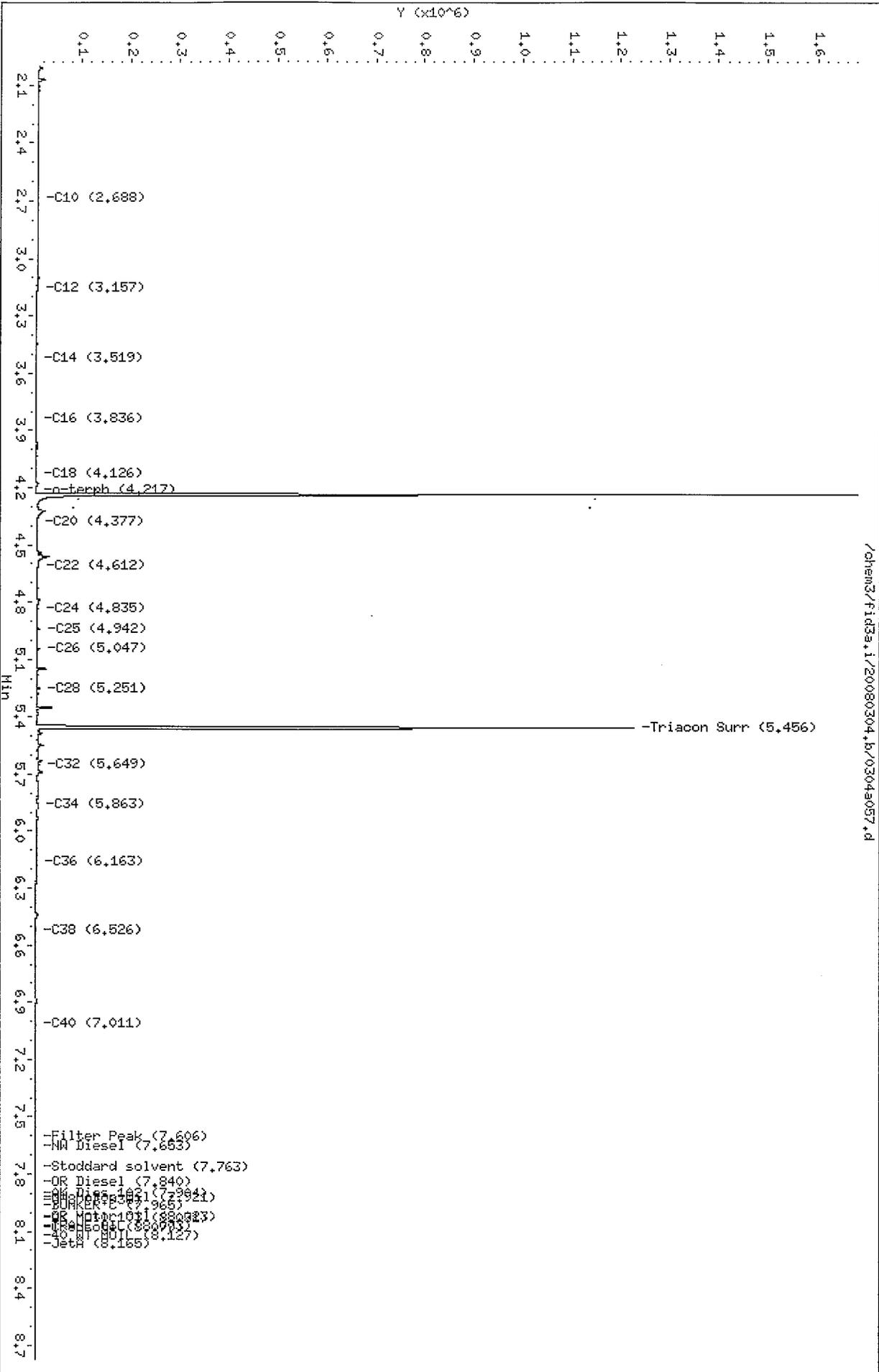
Surrogate	Area	Amount	%Rec
o-Terphenyl	723133	40.7	90.4
Triacontane	653045	42.9	95.3

M.O. 3/6/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080304.b/0304a057.d
Date: 05-MAR-2008 06:31
Client ID:
Sample Infor: HK72E
Column Phase: RTX-1

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25



/chem3/fid3a.i/20080304.b/0304a057.d

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a058.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/05/2008
Macro: FID:3A022908

ARI ID: MK72F
Client ID:
Injection: 05-MAR-2008 06:46
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.786	0.014	27790	66784	GAS (Tol-C12)	1003705	25
C8	1.975	0.014	9351	8805	DIESEL (C12-C24)	2007130	139
C10	2.677	-0.006	7681	9855	M.OIL (C24-C38)	4695252	489
C12	3.154	-0.002	9602	5337	AK-102 (C10-C25)	2341376	137
C14	3.523	0.000	10207	1834	AK-103 (C25-C36)	4477919	756
C16	3.844	0.003	12786	8027			
C18	4.123	0.001	13951	8420			
C20	4.374	-0.002	20454	15865	JET-A (C10-C18)	963770	68
C22	4.608	-0.003	29566	30313	MIN.OIL (C24-C38)	4695252	376
C24	4.830	-0.005	31466	41206	MSPIRIT (Tol-C12)	1003705	63
C25	4.940	-0.003	35647	25478	TRANOIL (C12-C28)	2855474	187
C26	5.044	-0.003	28719	37155	KEROSEN (Tol-C18)	1664543	108
C28	5.249	-0.003	26396	30663			
C32	5.629	-0.020	43794	72805	FUEL OIL(C10-C24)	2310062	4
C34	5.860	-0.019	83979	123165			
Filter Peak	7.595	-0.006	4852	4062	JP-4 (Tol-C14)	1211307	107
C36	6.161	-0.003	10516	7086	CREOSOT (C8-C22)	2292547	220
C38	6.527	0.001	7255	6026	HYDRAUL (C24-C38)	4695252	528
C40	7.010	-0.001	5574	1996	BUNKERC (C10-C38)	7005315	1340

ppp/rrr

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

Surrogate	Area	Amount	%Rec
o-Terphenyl	721991	40.6	90.2
Triacontane	643214	42.3	93.9

m.p. 3/6/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

INORGANICS ANALYSIS DATA SHEET

pH by Method EPA 150.1



Data Release Authorized: *[Signature]*
 Reported: 03/06/08
 Date Received: 02/28/08
 Page 1 of 1

QC Report No: MK72-Parametrix, Inc.
 Project: Yakima
 555-5753-001

Client/ ARI ID	Date Sampled	Matrix	Analysis Date & Batch	RL	Result
EVP-W MK72A 08-3889	02/28/08	Water	02/28/08 17:05 022808#1	0.01	7.41
EVP-WD MK72B 08-3890	02/28/08	Water	02/28/08 17:05 022808#1	0.01	7.37
KILN2-W MK72E 08-3893	02/28/08	Water	02/28/08 17:05 022808#1	0.01	8.89
KILN1-W MK72F 08-3894	02/28/08	Water	02/28/08 17:05 022808#1	0.01	8.00

Reported in std units

RL-Analytical reporting limit
 U-Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
MK72-Parametrix, Inc.



Matrix: Water
Data Release Authorized: 
Reported: 03/06/08

Project: Yakima
Event: 555-5753-001
Date Sampled: 02/28/08
Date Received: 02/28/08

Analyte	Date	Units	Sample	Replicate (s)	RPD/RSD
ARI ID: MK72A Client ID: EVP-W					
pH	02/28/08	std units	7.41	7.42	0.1%

LAB CONTROL RESULTS-CONVENTIONALS
MK72-Parametrix, Inc.



Matrix: Water
Data Release Authorized: 
Reported: 03/06/08

Project: Yakima
Event: 555-5753-001
Date Sampled: NA
Date Received: NA

Analyte	Date/Time	Units	LCS	Spike Added	Recovery
pH	02/28/08 17:05	std units	7.01	7.00	100.1%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: MK72MB

LIMS ID: 08-3890

Matrix: Water

Data Release Authorized: 

Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: NA

Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	03/10/08	6010B	03/15/08	7440-38-2	Arsenic	0.05	0.05	U
3010A	03/10/08	6010B	03/15/08	7440-39-3	Barium	0.003	0.003	U
3010A	03/10/08	6010B	03/15/08	7440-43-9	Cadmium	0.002	0.002	U
3010A	03/10/08	6010B	03/15/08	7440-70-2	Calcium	0.05	0.05	U
3010A	03/10/08	6010B	03/15/08	7440-47-3	Chromium	0.005	0.005	U
3010A	03/10/08	6010B	03/15/08	7439-89-6	Iron	0.05	0.05	U
3010A	03/10/08	6010B	03/15/08	7439-92-1	Lead	0.02	0.02	U
3010A	03/10/08	6010B	03/15/08	7439-96-5	Manganese	0.001	0.001	U
7470A	03/04/08	7470A	03/06/08	7439-97-6	Mercury	0.0001	0.0001	U
3010A	03/10/08	6010B	03/15/08	7440-09-7	Potassium	0.5	0.5	U
3010A	03/10/08	6010B	03/15/08	7782-49-2	Selenium	0.05	0.05	U
3010A	03/10/08	6010B	03/15/08	7440-22-4	Silver	0.003	0.003	U
3010A	03/10/08	6010B	03/15/08	7440-23-5	Sodium	0.5	0.5	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

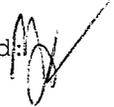
Page 1 of 1

Sample ID: EVP-W
SAMPLE

Lab Sample ID: MK72A

LIMS ID: 08-3889

Matrix: Water

Data Release Authorized: 

Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/28/08

Date Received: 02/28/08

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	03/10/08	6010B	03/15/08	7440-38-2	Arsenic	0.05	0.05	U
3010A	03/10/08	6010B	03/15/08	7440-39-3	Barium	0.003	0.007	
3010A	03/10/08	6010B	03/15/08	7440-43-9	Cadmium	0.002	0.002	U
3010A	03/10/08	6010B	03/15/08	7440-70-2	Calcium	0.05	8.62	
3010A	03/10/08	6010B	03/15/08	7440-47-3	Chromium	0.005	0.005	U
3010A	03/10/08	6010B	03/15/08	7439-89-6	Iron	0.05	0.39	
3010A	03/10/08	6010B	03/15/08	7439-92-1	Lead	0.02	0.02	U
3010A	03/10/08	6010B	03/15/08	7439-96-5	Manganese	0.001	0.048	
7470A	03/04/08	7470A	03/06/08	7439-97-6	Mercury	0.0001	0.0001	U
3010A	03/10/08	6010B	03/15/08	7440-09-7	Potassium	0.5	3.8	
3010A	03/10/08	6010B	03/15/08	7782-49-2	Selenium	0.05	0.05	U
3010A	03/10/08	6010B	03/15/08	7440-22-4	Silver	0.003	0.003	U
3010A	03/10/08	6010B	03/15/08	7440-23-5	Sodium	0.5	36.3	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

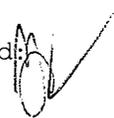
Sample ID: EVP-W

DUPLICATE

Lab Sample ID: MK72A

LIMS ID: 08-3889

Matrix: Water

Data Release Authorized: 

Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/28/08

Date Received: 02/28/08

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	0.05 U	0.05 U	0.0%	+/- 0.05	L
Barium	6010B	0.007	0.007	0.0%	+/- 0.003	L
Cadmium	6010B	0.002 U	0.002 U	0.0%	+/- 0.002	L
Calcium	6010B	8.62	8.56	0.7%	+/- 20%	
Chromium	6010B	0.005 U	0.005 U	0.0%	+/- 0.005	L
Iron	6010B	0.39	0.39	0.0%	+/- 20%	
Lead	6010B	0.02 U	0.02 U	0.0%	+/- 0.02	L
Manganese	6010B	0.048	0.048	0.0%	+/- 20%	
Mercury	7470A	0.0001 U	0.0001 U	0.0%	+/- 0.0001	L
Potassium	6010B	3.8	3.8	0.0%	+/- 20%	
Selenium	6010B	0.05 U	0.05 U	0.0%	+/- 0.05	L
Silver	6010B	0.003 U	0.003 U	0.0%	+/- 0.003	L
Sodium	6010B	36.3	36.1	0.6%	+/- 20%	

Reported in mg/L

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: EVP-W

MATRIX SPIKE

Lab Sample ID: MK72A

LIMS ID: 08-3889

Matrix: Water

Data Release Authorized: 

Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/28/08

Date Received: 02/28/08

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	0.05 U	2.18	2.00	109%	
Barium	6010B	0.007	2.02	2.00	101%	
Cadmium	6010B	0.002 U	0.516	0.500	103%	
Calcium	6010B	8.62	19.4	10.0	108%	
Chromium	6010B	0.005 U	0.515	0.500	103%	
Iron	6010B	0.39	2.54	2.00	108%	
Lead	6010B	0.02 U	2.03	2.00	102%	
Manganese	6010B	0.048	0.574	0.500	105%	
Mercury	7470A	0.0001 U	0.0011	0.0010	110%	
Potassium	6010B	3.8	14.2	10.0	104%	
Selenium	6010B	0.05 U	2.07	2.00	104%	
Silver	6010B	0.003 U	0.496	0.500	99.2%	
Sodium	6010B	36.3	47.3	10.0	110%	

Reported in mg/L

N-Control Limit Not Met

H-% Recovery Not Applicable, Sample Concentration Too High

NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: EVP-WD

SAMPLE

Lab Sample ID: MK72B

LIMS ID: 08-3890

Matrix: Water

Data Release Authorized: 

Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/28/08

Date Received: 02/28/08

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	03/10/08	6010B	03/15/08	7440-38-2	Arsenic	0.05	0.05	U
3010A	03/10/08	6010B	03/15/08	7440-39-3	Barium	0.003	0.007	
3010A	03/10/08	6010B	03/15/08	7440-43-9	Cadmium	0.002	0.002	U
3010A	03/10/08	6010B	03/15/08	7440-70-2	Calcium	0.05	8.48	
3010A	03/10/08	6010B	03/15/08	7440-47-3	Chromium	0.005	0.005	U
3010A	03/10/08	6010B	03/15/08	7439-89-6	Iron	0.05	0.45	
3010A	03/10/08	6010B	03/15/08	7439-92-1	Lead	0.02	0.02	U
3010A	03/10/08	6010B	03/15/08	7439-96-5	Manganese	0.001	0.049	
7470A	03/04/08	7470A	03/06/08	7439-97-6	Mercury	0.0001	0.0001	U
3010A	03/10/08	6010B	03/15/08	7440-09-7	Potassium	0.5	3.7	
3010A	03/10/08	6010B	03/15/08	7782-49-2	Selenium	0.05	0.05	U
3010A	03/10/08	6010B	03/15/08	7440-22-4	Silver	0.003	0.003	U
3010A	03/10/08	6010B	03/15/08	7440-23-5	Sodium	0.5	36.4	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

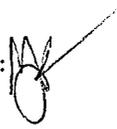
Page 1 of 1

Sample ID: STL-W
SAMPLE

Lab Sample ID: MK72C

LIMS ID: 08-3891

Matrix: Water

Data Release Authorized: 

Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/28/08

Date Received: 02/28/08

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	03/10/08	6010B	03/15/08	7440-38-2	Arsenic	0.05	0.05	U
3010A	03/10/08	6010B	03/15/08	7440-39-3	Barium	0.003	0.034	
3010A	03/10/08	6010B	03/15/08	7440-43-9	Cadmium	0.002	0.002	U
3010A	03/10/08	6010B	03/15/08	7440-70-2	Calcium	0.05	14.9	
3010A	03/10/08	6010B	03/15/08	7440-47-3	Chromium	0.005	0.005	U
3010A	03/10/08	6010B	03/15/08	7439-89-6	Iron	0.05	7.95	
3010A	03/10/08	6010B	03/15/08	7439-92-1	Lead	0.02	0.02	U
3010A	03/10/08	6010B	03/15/08	7439-96-5	Manganese	0.001	0.631	
7470A	03/04/08	7470A	03/06/08	7439-97-6	Mercury	0.0001	0.0001	U
3010A	03/10/08	6010B	03/15/08	7440-09-7	Potassium	0.5	22.3	
3010A	03/10/08	6010B	03/15/08	7782-49-2	Selenium	0.05	0.05	U
3010A	03/10/08	6010B	03/15/08	7440-22-4	Silver	0.003	0.003	U
3010A	03/10/08	6010B	03/15/08	7440-23-5	Sodium	0.5	28.6	

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: REC-W
SAMPLE

Lab Sample ID: MK72D

LIMS ID: 08-3892

Matrix: Water

Data Release Authorized: 

Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/28/08

Date Received: 02/28/08

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	03/10/08	6010B	03/15/08	7440-38-2	Arsenic	0.05	0.05	U
3010A	03/10/08	6010B	03/15/08	7440-39-3	Barium	0.003	0.099	
3010A	03/10/08	6010B	03/15/08	7440-43-9	Cadmium	0.002	0.002	U
3010A	03/10/08	6010B	03/15/08	7440-70-2	Calcium	0.05	47.9	
3010A	03/10/08	6010B	03/15/08	7440-47-3	Chromium	0.005	0.005	
3010A	03/10/08	6010B	03/15/08	7439-89-6	Iron	0.05	9.15	
3010A	03/10/08	6010B	03/15/08	7439-92-1	Lead	0.02	0.02	U
3010A	03/10/08	6010B	03/15/08	7439-96-5	Manganese	0.001	1.08	
7470A	03/04/08	7470A	03/06/08	7439-97-6	Mercury	0.0001	0.0001	U
3010A	03/10/08	6010B	03/15/08	7440-09-7	Potassium	0.5	47.1	
3010A	03/10/08	6010B	03/15/08	7782-49-2	Selenium	0.05	0.05	U
3010A	03/10/08	6010B	03/15/08	7440-22-4	Silver	0.003	0.003	U
3010A	03/10/08	6010B	03/15/08	7440-23-5	Sodium	0.5	34.1	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

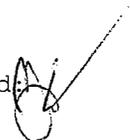
Page 1 of 1

Sample ID: KILN2-W
SAMPLE

Lab Sample ID: MK72E

LIMS ID: 08-3893

Matrix: Water

Data Release Authorized: 

Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/28/08

Date Received: 02/28/08

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	03/10/08	6010B	03/15/08	7440-38-2	Arsenic	0.05	0.05	U
3010A	03/10/08	6010B	03/15/08	7440-39-3	Barium	0.003	0.052	
3010A	03/10/08	6010B	03/15/08	7440-43-9	Cadmium	0.002	0.002	U
3010A	03/10/08	6010B	03/15/08	7440-70-2	Calcium	0.05	16.3	
3010A	03/10/08	6010B	03/15/08	7440-47-3	Chromium	0.005	0.005	U
3010A	03/10/08	6010B	03/15/08	7439-89-6	Iron	0.05	0.90	
3010A	03/10/08	6010B	03/15/08	7439-92-1	Lead	0.02	0.02	U
3010A	03/10/08	6010B	03/15/08	7439-96-5	Manganese	0.001	0.114	
7470A	03/04/08	7470A	03/06/08	7439-97-6	Mercury	0.0001	0.0001	U
3010A	03/10/08	6010B	03/15/08	7440-09-7	Potassium	0.5	5.5	
3010A	03/10/08	6010B	03/15/08	7782-49-2	Selenium	0.05	0.05	U
3010A	03/10/08	6010B	03/15/08	7440-22-4	Silver	0.003	0.003	U
3010A	03/10/08	6010B	03/15/08	7440-23-5	Sodium	0.5	9.5	

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: KIILN1-W
SAMPLE

Lab Sample ID: MK72F

LIMS ID: 08-3894

Matrix: Water

Data Release Authorized: 

Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/28/08

Date Received: 02/28/08

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	03/10/08	6010B	03/15/08	7440-38-2	Arsenic	0.05	0.05	U
3010A	03/10/08	6010B	03/15/08	7440-39-3	Barium	0.003	0.139	
3010A	03/10/08	6010B	03/15/08	7440-43-9	Cadmium	0.002	0.002	U
3010A	03/10/08	6010B	03/15/08	7440-70-2	Calcium	0.05	32.5	
3010A	03/10/08	6010B	03/15/08	7440-47-3	Chromium	0.005	0.005	U
3010A	03/10/08	6010B	03/15/08	7439-89-6	Iron	0.05	4.29	
3010A	03/10/08	6010B	03/15/08	7439-92-1	Lead	0.02	0.02	U
3010A	03/10/08	6010B	03/15/08	7439-96-5	Manganese	0.001	0.445	
7470A	03/04/08	7470A	03/06/08	7439-97-6	Mercury	0.0001	0.0001	U
3010A	03/10/08	6010B	03/15/08	7440-09-7	Potassium	0.5	20.0	
3010A	03/10/08	6010B	03/15/08	7782-49-2	Selenium	0.05	0.05	U
3010A	03/10/08	6010B	03/15/08	7440-22-4	Silver	0.003	0.003	U
3010A	03/10/08	6010B	03/15/08	7440-23-5	Sodium	0.5	8.2	

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: MK72LCS

LIMS ID: 08-3890

Matrix: Water

Data Release Authorized: 

Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	2.18	2.00	109%	
Barium	6010B	2.01	2.00	100%	
Cadmium	6010B	0.519	0.500	104%	
Calcium	6010B	10.6	10.0	106%	
Chromium	6010B	0.522	0.500	104%	
Iron	6010B	2.16	2.00	108%	
Lead	6010B	2.08	2.00	104%	
Manganese	6010B	0.529	0.500	106%	
Mercury	7470A	0.0022	0.0020	110%	
Potassium	6010B	10.8	10.0	108%	
Selenium	6010B	2.10	2.00	105%	
Silver	6010B	0.503	0.500	101%	
Sodium	6010B	10.9	10.0	109%	

Reported in mg/L

N-Control limit not met

Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

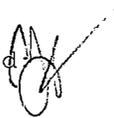
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: MK72MB

LIMS ID: 08-3897

Matrix: Water

Data Release Authorized 

Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: NA

Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	03/05/08	6010B	03/06/08	7440-38-2	Arsenic	0.05	0.05	U
6010B	03/05/08	6010B	03/06/08	7440-39-3	Barium	0.003	0.003	U
6010B	03/05/08	6010B	03/06/08	7440-43-9	Cadmium	0.002	0.002	U
6010B	03/05/08	6010B	03/06/08	7440-70-2	Calcium	0.05	0.05	U
6010B	03/05/08	6010B	03/06/08	7440-47-3	Chromium	0.005	0.005	U
6010B	03/05/08	6010B	03/06/08	7439-89-6	Iron	0.05	0.05	U
6010B	03/05/08	6010B	03/06/08	7439-92-1	Lead	0.02	0.02	U
6010B	03/05/08	6010B	03/06/08	7439-96-5	Manganese	0.001	0.001	U
7470A	03/05/08	7470A	03/06/08	7439-97-6	Mercury	0.0001	0.0001	U
6010B	03/05/08	6010B	03/06/08	7440-09-7	Potassium	0.5	0.5	U
6010B	03/05/08	6010B	03/06/08	7782-49-2	Selenium	0.05	0.05	U
6010B	03/05/08	6010B	03/06/08	7440-22-4	Silver	0.003	0.003	U
6010B	03/05/08	6010B	03/06/08	7440-23-5	Sodium	0.5	0.5	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1

Sample ID: EVP-W
SAMPLE

Lab Sample ID: MK72H

LIMS ID: 08-3896

Matrix: Water

Data Release Authorized 

Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/28/08

Date Received: 02/28/08

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	03/05/08	6010B	03/06/08	7440-38-2	Arsenic	0.05	0.05	U
6010B	03/05/08	6010B	03/06/08	7440-39-3	Barium	0.003	0.008	
6010B	03/05/08	6010B	03/06/08	7440-43-9	Cadmium	0.002	0.002	U
6010B	03/05/08	6010B	03/06/08	7440-70-2	Calcium	0.05	8.79	
6010B	03/05/08	6010B	03/06/08	7440-47-3	Chromium	0.005	0.005	U
6010B	03/05/08	6010B	03/06/08	7439-89-6	Iron	0.05	0.21	
6010B	03/05/08	6010B	03/06/08	7439-92-1	Lead	0.02	0.02	U
6010B	03/05/08	6010B	03/06/08	7439-96-5	Manganese	0.001	0.045	
7470A	03/05/08	7470A	03/06/08	7439-97-6	Mercury	0.0001	0.0001	U
6010B	03/05/08	6010B	03/06/08	7440-09-7	Potassium	0.5	3.8	
6010B	03/05/08	6010B	03/06/08	7782-49-2	Selenium	0.05	0.05	U
6010B	03/05/08	6010B	03/06/08	7440-22-4	Silver	0.003	0.003	U
6010B	03/05/08	6010B	03/06/08	7440-23-5	Sodium	0.5	37.4	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: EVP-W
DUPLICATE

Lab Sample ID: MK72H
LIMS ID: 08-3896
Matrix: Water
Data Release Authorized: 
Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/28/08
Date Received: 02/28/08

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	0.05 U	0.05 U	0.0%	+/- 0.05	L
Barium	6010B	0.008	0.008	0.0%	+/- 0.003	L
Cadmium	6010B	0.002 U	0.002 U	0.0%	+/- 0.002	L
Calcium	6010B	8.79	8.84	0.6%	+/- 20%	
Chromium	6010B	0.005 U	0.005 U	0.0%	+/- 0.005	L
Iron	6010B	0.21	0.21	0.0%	+/- 0.05	L
Lead	6010B	0.02 U	0.02 U	0.0%	+/- 0.02	L
Manganese	6010B	0.045	0.045	0.0%	+/- 20%	
Mercury	7470A	0.0001 U	0.0001 U	0.0%	+/- 0.0001	L
Potassium	6010B	3.8	3.8	0.0%	+/- 20%	
Selenium	6010B	0.05 U	0.05 U	0.0%	+/- 0.05	L
Silver	6010B	0.003 U	0.003 U	0.0%	+/- 0.003	L
Sodium	6010B	37.4	37.4	0.0%	+/- 20%	

Reported in mg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: EVP-W
MATRIX SPIKE

Lab Sample ID: MK72H
LIMS ID: 08-3896
Matrix: Water
Data Release Authorized:
Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/28/08
Date Received: 02/28/08



MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	0.05 U	2.14	2.00	107%	
Barium	6010B	0.008	1.89	2.00	94.1%	
Cadmium	6010B	0.002 U	0.508	0.500	102%	
Calcium	6010B	8.79	18.9	10.0	101%	
Chromium	6010B	0.005 U	0.479	0.500	95.8%	
Iron	6010B	0.21	2.24	2.00	102%	
Lead	6010B	0.02 U	2.01	2.00	100%	
Manganese	6010B	0.045	0.531	0.500	97.2%	
Mercury	7470A	0.0001 U	0.0010	0.001	100%	
Potassium	6010B	3.8	13.9	10.0	101%	
Selenium	6010B	0.05 U	2.20	2.00	110%	
Silver	6010B	0.003 U	0.398	0.500	79.6%	
Sodium	6010B	37.4	46.8	10.0	94.0%	

Reported in mg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1

Sample ID: EVP-WD
SAMPLE

Lab Sample ID: MK72I

LIMS ID: 08-3897

Matrix: Water

Data Release Authorized: 

Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/28/08

Date Received: 02/28/08

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	03/05/08	6010B	03/06/08	7440-38-2	Arsenic	0.05	0.05	U
6010B	03/05/08	6010B	03/06/08	7440-39-3	Barium	0.003	0.008	
6010B	03/05/08	6010B	03/06/08	7440-43-9	Cadmium	0.002	0.002	U
6010B	03/05/08	6010B	03/06/08	7440-70-2	Calcium	0.05	8.84	
6010B	03/05/08	6010B	03/06/08	7440-47-3	Chromium	0.005	0.005	U
6010B	03/05/08	6010B	03/06/08	7439-89-6	Iron	0.05	0.21	
6010B	03/05/08	6010B	03/06/08	7439-92-1	Lead	0.02	0.02	U
6010B	03/05/08	6010B	03/06/08	7439-96-5	Manganese	0.001	0.046	
7470A	03/05/08	7470A	03/06/08	7439-97-6	Mercury	0.0001	0.0001	U
6010B	03/05/08	6010B	03/06/08	7440-09-7	Potassium	0.5	3.8	
6010B	03/05/08	6010B	03/06/08	7782-49-2	Selenium	0.05	0.05	U
6010B	03/05/08	6010B	03/06/08	7440-22-4	Silver	0.003	0.003	U
6010B	03/05/08	6010B	03/06/08	7440-23-5	Sodium	0.5	38.1	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: STL-W
SAMPLE

Lab Sample ID: MK72J
LIMS ID: 08-3898
Matrix: Water
Data Release Authorized:
Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/28/08
Date Received: 02/28/08

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	03/05/08	6010B	03/06/08	7440-38-2	Arsenic	0.05	0.05	U
6010B	03/05/08	6010B	03/06/08	7440-39-3	Barium	0.003	0.024	
6010B	03/05/08	6010B	03/06/08	7440-43-9	Cadmium	0.002	0.002	U
6010B	03/05/08	6010B	03/06/08	7440-70-2	Calcium	0.05	14.8	
6010B	03/05/08	6010B	03/06/08	7440-47-3	Chromium	0.005	0.005	U
6010B	03/05/08	6010B	03/06/08	7439-89-6	Iron	0.05	2.93	
6010B	03/05/08	6010B	03/06/08	7439-92-1	Lead	0.02	0.02	U
6010B	03/05/08	6010B	03/06/08	7439-96-5	Manganese	0.001	0.581	
7470A	03/05/08	7470A	03/06/08	7439-97-6	Mercury	0.0001	0.0001	U
6010B	03/05/08	6010B	03/06/08	7440-09-7	Potassium	0.5	22.2	
6010B	03/05/08	6010B	03/06/08	7782-49-2	Selenium	0.05	0.05	U
6010B	03/05/08	6010B	03/06/08	7440-22-4	Silver	0.003	0.003	U
6010B	03/05/08	6010B	03/06/08	7440-23-5	Sodium	0.5	29.6	

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1

Sample ID: REC-W
SAMPLE

Lab Sample ID: MK72K

LIMS ID: 08-3899

Matrix: Water

Data Release Authorized 

Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/28/08

Date Received: 02/28/08

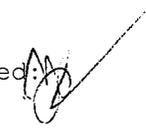
Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	03/05/08	6010B	03/06/08	7440-38-2	Arsenic	0.05	0.05	U
6010B	03/05/08	6010B	03/06/08	7440-39-3	Barium	0.003	0.031	
6010B	03/05/08	6010B	03/06/08	7440-43-9	Cadmium	0.002	0.002	U
6010B	03/05/08	6010B	03/06/08	7440-70-2	Calcium	0.05	43.5	
6010B	03/05/08	6010B	03/06/08	7440-47-3	Chromium	0.005	0.005	U
6010B	03/05/08	6010B	03/06/08	7439-89-6	Iron	0.05	0.50	
6010B	03/05/08	6010B	03/06/08	7439-92-1	Lead	0.02	0.02	U
6010B	03/05/08	6010B	03/06/08	7439-96-5	Manganese	0.001	0.807	
7470A	03/05/08	7470A	03/06/08	7439-97-6	Mercury	0.0001	0.0001	U
6010B	03/05/08	6010B	03/06/08	7440-09-7	Potassium	0.5	46.4	
6010B	03/05/08	6010B	03/06/08	7782-49-2	Selenium	0.05	0.05	U
6010B	03/05/08	6010B	03/06/08	7440-22-4	Silver	0.003	0.003	U
6010B	03/05/08	6010B	03/06/08	7440-23-5	Sodium	0.5	33.5	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: KIILN2-W
SAMPLE

Lab Sample ID: MK72L
LIMS ID: 08-3900
Matrix: Water
Data Release Authorized: 
Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/28/08
Date Received: 02/28/08

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	03/05/08	6010B	03/06/08	7440-38-2	Arsenic	0.05	0.05	U
6010B	03/05/08	6010B	03/06/08	7440-39-3	Barium	0.003	0.014	
6010B	03/05/08	6010B	03/06/08	7440-43-9	Cadmium	0.002	0.002	U
6010B	03/05/08	6010B	03/06/08	7440-70-2	Calcium	0.05	14.6	
6010B	03/05/08	6010B	03/06/08	7440-47-3	Chromium	0.005	0.005	U
6010B	03/05/08	6010B	03/06/08	7439-89-6	Iron	0.05	0.05	U
6010B	03/05/08	6010B	03/06/08	7439-92-1	Lead	0.02	0.02	U
6010B	03/05/08	6010B	03/06/08	7439-96-5	Manganese	0.001	0.001	U
7470A	03/05/08	7470A	03/06/08	7439-97-6	Mercury	0.0001	0.0001	U
6010B	03/05/08	6010B	03/06/08	7440-09-7	Potassium	0.5	5.3	
6010B	03/05/08	6010B	03/06/08	7782-49-2	Selenium	0.05	0.05	U
6010B	03/05/08	6010B	03/06/08	7440-22-4	Silver	0.003	0.003	U
6010B	03/05/08	6010B	03/06/08	7440-23-5	Sodium	0.5	10.3	

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

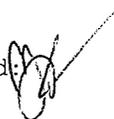
Page 1 of 1

Sample ID: KILN1-W
SAMPLE

Lab Sample ID: MK72M

LIMS ID: 08-3901

Matrix: Water

Data Release Authorized: 

Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/28/08

Date Received: 02/28/08

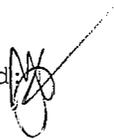
Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
6010B	03/05/08	6010B	03/06/08	7440-38-2	Arsenic	0.05	0.05	U
6010B	03/05/08	6010B	03/06/08	7440-39-3	Barium	0.003	0.055	
6010B	03/05/08	6010B	03/06/08	7440-43-9	Cadmium	0.002	0.002	U
6010B	03/05/08	6010B	03/06/08	7440-70-2	Calcium	0.05	27.5	
6010B	03/05/08	6010B	03/06/08	7440-47-3	Chromium	0.005	0.005	U
6010B	03/05/08	6010B	03/06/08	7439-89-6	Iron	0.05	0.05	U
6010B	03/05/08	6010B	03/06/08	7439-92-1	Lead	0.02	0.02	U
6010B	03/05/08	6010B	03/06/08	7439-96-5	Manganese	0.001	0.098	
7470A	03/05/08	7470A	03/06/08	7439-97-6	Mercury	0.0001	0.0001	U
6010B	03/05/08	6010B	03/06/08	7440-09-7	Potassium	0.5	19.9	
6010B	03/05/08	6010B	03/06/08	7782-49-2	Selenium	0.05	0.05	U
6010B	03/05/08	6010B	03/06/08	7440-22-4	Silver	0.003	0.003	U
6010B	03/05/08	6010B	03/06/08	7440-23-5	Sodium	0.5	8.2	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: MK72LCS
LIMS ID: 08-3897
Matrix: Water
Data Release Authorized: 
Reported: 03/17/08

QC Report No: MK72-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	2.07	2.00	104%	
Barium	6010B	1.87	2.00	93.5%	
Cadmium	6010B	0.502	0.500	100%	
Calcium	6010B	10.0	10.0	100%	
Chromium	6010B	0.473	0.500	94.6%	
Iron	6010B	1.99	2.00	99.5%	
Lead	6010B	1.98	2.00	99.0%	
Manganese	6010B	0.480	0.500	96.0%	
Mercury	7470A	0.0020	0.0020	100%	
Potassium	6010B	10.3	10.0	103%	
Selenium	6010B	2.17	2.00	108%	
Silver	6010B	0.469	0.500	93.8%	
Sodium	6010B	10.5	10.0	105%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%



Analytical Resources, Incorporated
Analytical Chemists and Consultants

25 March 2008

Annika Deutsch
Parametrix, Inc.
411 108th Avenue NE
Suite 1800
Bellevue, WA 98004-5571

RE: Project: Yakima
ARI Job No. ML66

Dear Annika:

Please find enclosed the original Chain of Custody (COC) records and the final results for the samples from the project referenced above. Analytical Resources, Inc. received seven soil samples and one trip blank on March 5, 2008. The samples were received intact and there were no discrepancies in the paperwork. The samples were analyzed for VOAs, BETX/NWTPH-G, SVOAs, PCBs, NWTPH-Dx, total metals, TOC and pH as requested.

A matrix spike (MS) and a matrix spike duplicate (MSD) were prepared and analyzed for VOAs in conjunction with sample SS-1-2. The areas for the internal standards (ISs) and the percent recoveries for the surrogates were not within control limits following the initial analyses of this sample and the corresponding MS/MSD. This sample was re-analyzed. The areas for the ISs and the percent recoveries for the surrogates were not within control limits for the re-analysis. It was concluded that the sample matrix was the cause of the poor IS and surrogate recoveries. No further corrective actions were taken. The results for the original analysis only have been submitted.

The percent recovery for the surrogate, bromobenzene, was low following the initial BETX/NWTPH-G analysis of sample FLY ASH. This sample was re-analyzed. The percent recoveries for both surrogates were low for the re-analysis. It was concluded that the sample matrix was the cause of the low surrogate recoveries. No further corrective actions were taken. The results for both analyses have been submitted.

The percent recoveries for the surrogates were low following the initial SVOA analysis of sample FLY ASH. This sample was diluted and re-analyzed. The percent recoveries for the surrogates were low for the dilution. Since the percent recoveries for the corresponding LCS were acceptable, it was concluded that the sample matrix was the cause of the low surrogate recoveries. No corrective actions were taken.

The percent recoveries for the surrogate, 2-fluorophenol, were low following the initial SVOA analyses of the samples that were extracted on 3/17/08 and analyzed on 3/18-3/19. Since one acid surrogate is permitted outside of control limits, no corrective actions were taken.

Page 2

Deutsch
Parametrix, Inc.
Yakima
Soil
ML66

25 March 2008

The area for the internal standard, d12-perylene, was not within control limits following the initial SVOA analysis of sample B-3-8.5. This sample was diluted and re-analyzed. The areas for all internal standards were within acceptable QC limits for the dilution. The results for both analyses have been submitted for this sample.

The percent recovery for the surrogate, TCMX, was low following the initial PCB analysis of sample FLY ASH. Since the percent recoveries for the corresponding LCS were acceptable, it was concluded that the sample matrix was the cause of the low surrogate recovery. No corrective actions were taken.

The percent difference for Aroclor 1260 was slightly high for the closing CCAL that bracketed the PCB analyses of these samples. Since no Aroclors were detected in any sample bracketed by this standard, the high bias does not compromise any RL. No corrective actions were taken.

There were no further analytical complications noted.

As always, a copy of these reports and all raw data will remain on file at ARI. If you have questions, or require further information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.


Mark D. Harris
Project Manager
206-695-6210
<markh@arilabs.com>

Enclosures

cc: File ML66

MDH/mdh

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: MLC-2004-92 Turn-around Requested: Standard
 ARI Client Company: Paramethix Phone: 425-458-6377
 Client Contact: Annika Deutsch
 Client Project Name: Yakima
 Client Project #: 55-5753-001-02-022 Samplers: Annika Deutsch/Ingram Soil

Page: 1 of 1
 Date: 3/3/08 Ice Present? Y
 No. of Coolers: 2 Cooler Temps: 18, 2, 2

Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)



Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested						Notes/Comments			
					TPH-DX	TPH-GX	SVOG	PCBS	Metals	PH		Extra Volume	VOCs	
B-3-14	3/3/08	1615	5017	4	X	X	X	X	X					
SS-2-1.5		1645		6	X	X	X	X	X	X				
Fly Ash		1705		7	X	X	X	X	X	X				
B-3-8.5		1600		4	X	X	X	X	X					
GP-3-12		1350		5	X	X	X	X	X					
SS-1-2		1605		8	X	X	X	X	X				X	
B-2-13		1450		4	X	X	X	X	X				X	
Trip Blank														
Comments/Special Instructions <u>Shipped via FedEx</u>					Relinquished by: (Signature) <u>Annika Deutsch</u> Printed Name: <u>Annika Deutsch</u> Company: <u>Paramethix</u> Date & Time: <u>3/3/08 7:45pm</u>					Received by: (Signature) <u>[Signature]</u> Printed Name: <u>BRIAN PEREL</u> Company: <u>ARI</u> Date & Time: <u>3/5/08 1000</u>				

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

ARI Data Reporting Qualifiers

Effective 11/22/04

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- NR Spiked compound recovery is not reported due to chromatographic interference
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the limit
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2Sample ID: MB-030708
METHOD BLANKLab Sample ID: MB-030708
LIMS ID: 08-4486
Matrix: Soil
Data Release Authorized: *AS*
Reported: 03/17/08QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: NA
Date Received: NAInstrument/Analyst: FINN1/PAB
Date Analyzed: 03/07/08 12:52Sample Amount: 5.00 g-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: MB-030708
METHOD BLANK

Lab Sample ID: MB-030708
LIMS ID: 08-4486
Matrix: Soil
Date Analyzed: 03/07/08 12:52

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	95.3%
Bromofluorobenzene	92.6%
d4-1,2-Dichlorobenzene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2

Sample ID: SS-1-2
SAMPLE

Lab Sample ID: ML66F
LIMS ID: 08-4486
Matrix: Soil
Data Release Authorized: *AB*
Reported: 03/17/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/07/08 19:49

Sample Amount: 4.70 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 5.9%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.1	< 1.1	U
74-83-9	Bromomethane	1.1	< 1.1	U
75-01-4	Vinyl Chloride	1.1	< 1.1	U
75-00-3	Chloroethane	1.1	< 1.1	U
75-09-2	Methylene Chloride	2.1	2.5	
67-64-1	Acetone	5.3	78	
75-15-0	Carbon Disulfide	1.1	1.6	
75-35-4	1,1-Dichloroethene	1.1	< 1.1	U
75-34-3	1,1-Dichloroethane	1.1	< 1.1	U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1	U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1	U
67-66-3	Chloroform	1.1	< 1.1	U
107-06-2	1,2-Dichloroethane	1.1	< 1.1	U
78-93-3	2-Butanone	5.3	6.2	
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1	U
56-23-5	Carbon Tetrachloride	1.1	< 1.1	U
108-05-4	Vinyl Acetate	5.3	< 5.3	U
75-27-4	Bromodichloromethane	1.1	< 1.1	U
78-87-5	1,2-Dichloropropane	1.1	< 1.1	U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1	U
79-01-6	Trichloroethene	1.1	< 1.1	U
124-48-1	Dibromochloromethane	1.1	< 1.1	U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1	U
71-43-2	Benzene	1.1	< 1.1	U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1	U
75-25-2	Bromoform	1.1	< 1.1	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.3	< 5.3	U
591-78-6	2-Hexanone	5.3	< 5.3	U
127-18-4	Tetrachloroethene	1.1	< 1.1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1	U
108-88-3	Toluene	1.1	2.0	
108-90-7	Chlorobenzene	1.1	< 1.1	U
100-41-4	Ethylbenzene	1.1	< 1.1	U
100-42-5	Styrene	1.1	< 1.1	U
75-69-4	Trichlorofluoromethane	1.1	< 1.1	U
108-38-3	m,p-Xylene	1.1	< 1.1	U
95-47-6	o-Xylene	1.1	< 1.1	U
95-50-1	1,2-Dichlorobenzene	1.1	< 1.1	U
106-46-7	1,4-Dichlorobenzene	1.1	< 1.1	U
74-88-4	Methyl Iodide	1.1	< 1.1	U
107-13-1	Acrylonitrile	5.3	< 5.3	U
74-95-3	Dibromomethane	1.1	< 1.1	U
630-20-6	1,1,1,2-Tetrachloroethane	1.1	< 1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	5.3	< 5.3	U
96-18-4	1,2,3-Trichloropropane	2.1	< 2.1	U
110-57-6	trans-1,4-Dichloro-2-butene	5.3	< 5.3	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: SS-1-2
SAMPLE

Lab Sample ID: ML66F
LIMS ID: 08-4486
Matrix: Soil
Date Analyzed: 03/07/08 19:49

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	1.1	< 1.1	U
74-97-5	Bromochloromethane	1.1	< 1.1	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	170%
d8-Toluene	69.8%
Bromofluorobenzene	64.3%
d4-1,2-Dichlorobenzene	93.5%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B

Sample ID: SS-1-2

Page 1 of 2

MATRIX SPIKE

Lab Sample ID: ML66F

QC Report No: ML66-Parametrix, Inc.

LIMS ID: 08-4486

Project: Yakima

Matrix: Soil

555-5753-001-02-022

Data Release Authorized: 

Date Sampled: 03/03/08

Reported: 03/17/08

Date Received: 03/05/08

Instrument/Analyst: FINN1/PAB

Sample Amount: 4.70 g-dry-wt

Date Analyzed: 03/07/08 20:43

Purge Volume: 5.0 mL

Moisture: 5.9%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.1	---	
74-83-9	Bromomethane	1.1	---	
75-01-4	Vinyl Chloride	1.1	---	
75-00-3	Chloroethane	1.1	---	
75-09-2	Methylene Chloride	2.1	---	
67-64-1	Acetone	5.3	---	
75-15-0	Carbon Disulfide	1.1	---	
75-35-4	1,1-Dichloroethene	1.1	---	
75-34-3	1,1-Dichloroethane	1.1	---	
156-60-5	trans-1,2-Dichloroethene	1.1	---	
156-59-2	cis-1,2-Dichloroethene	1.1	---	
67-66-3	Chloroform	1.1	---	
107-06-2	1,2-Dichloroethane	1.1	---	
78-93-3	2-Butanone	5.3	---	
71-55-6	1,1,1-Trichloroethane	1.1	---	
56-23-5	Carbon Tetrachloride	1.1	---	
108-05-4	Vinyl Acetate	5.3	---	
75-27-4	Bromodichloromethane	1.1	---	
78-87-5	1,2-Dichloropropane	1.1	---	
10061-01-5	cis-1,3-Dichloropropene	1.1	---	
79-01-6	Trichloroethene	1.1	---	
124-48-1	Dibromochloromethane	1.1	---	
79-00-5	1,1,2-Trichloroethane	1.1	---	
71-43-2	Benzene	1.1	---	
10061-02-6	trans-1,3-Dichloropropene	1.1	---	
75-25-2	Bromoform	1.1	---	
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.3	---	
591-78-6	2-Hexanone	5.3	---	
127-18-4	Tetrachloroethene	1.1	---	
79-34-5	1,1,2,2-Tetrachloroethane	1.1	---	
108-88-3	Toluene	1.1	---	
108-90-7	Chlorobenzene	1.1	---	
100-41-4	Ethylbenzene	1.1	---	
100-42-5	Styrene	1.1	---	
75-69-4	Trichlorofluoromethane	1.1	---	
1330-20-7	m,p-Xylene	1.1	---	
95-47-6	o-Xylene	1.1	---	
95-50-1	1,2-Dichlorobenzene	1.1	---	
106-46-7	1,4-Dichlorobenzene	1.1	---	
74-88-4	Methyl Iodide	1.1	---	
107-13-1	Acrylonitrile	5.3	---	
74-95-3	Dibromomethane	1.1	---	
630-20-6	1,1,1,2-Tetrachloroethane	1.1	---	
96-12-8	1,2-Dibromo-3-chloropropane	5.3	---	
96-18-4	1,2,3-Trichloropropane	2.1	---	
110-57-6	trans-1,4-Dichloro-2-butene	5.3	---	

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: SS-1-2
MATRIX SPIKE

Lab Sample ID: ML66F
LIMS ID: 08-4486
Matrix: Soil
Date Analyzed: 03/07/08 20:43

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	1.1	---	
74-97-5	Bromochloromethane	1.1	---	

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	113%
d8-Toluene	84.4%
Bromofluorobenzene	69.1%
d4-1,2-Dichlorobenzene	89.1%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2

Sample ID: SS-1-2
MATRIX SPIKE DUP

Lab Sample ID: ML66F
LIMS ID: 08-4486
Matrix: Soil
Data Release Authorized: *AB*
Reported: 03/17/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/07/08 21:10

Sample Amount: 4.73 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 5.9%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.1	---	
74-83-9	Bromomethane	1.1	---	
75-01-4	Vinyl Chloride	1.1	---	
75-00-3	Chloroethane	1.1	---	
75-09-2	Methylene Chloride	2.1	---	
67-64-1	Acetone	5.3	---	
75-15-0	Carbon Disulfide	1.1	---	
75-35-4	1,1-Dichloroethene	1.1	---	
75-34-3	1,1-Dichloroethane	1.1	---	
156-60-5	trans-1,2-Dichloroethene	1.1	---	
156-59-2	cis-1,2-Dichloroethene	1.1	---	
67-66-3	Chloroform	1.1	---	
107-06-2	1,2-Dichloroethane	1.1	---	
78-93-3	2-Butanone	5.3	---	
71-55-6	1,1,1-Trichloroethane	1.1	---	
56-23-5	Carbon Tetrachloride	1.1	---	
108-05-4	Vinyl Acetate	5.3	---	
75-27-4	Bromodichloromethane	1.1	---	
78-87-5	1,2-Dichloropropane	1.1	---	
10061-01-5	cis-1,3-Dichloropropene	1.1	---	
79-01-6	Trichloroethene	1.1	---	
124-48-1	Dibromochloromethane	1.1	---	
79-00-5	1,1,2-Trichloroethane	1.1	---	
71-43-2	Benzene	1.1	---	
10061-02-6	trans-1,3-Dichloropropene	1.1	---	
75-25-2	Bromoform	1.1	---	
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.3	---	
591-78-6	2-Hexanone	5.3	---	
127-18-4	Tetrachloroethene	1.1	---	
79-34-5	1,1,2,2-Tetrachloroethane	1.1	---	
108-88-3	Toluene	1.1	---	
108-90-7	Chlorobenzene	1.1	---	
100-41-4	Ethylbenzene	1.1	---	
100-42-5	Styrene	1.1	---	
75-69-4	Trichlorofluoromethane	1.1	---	
1330-20-7	m,p-Xylene	1.1	---	
95-47-6	o-Xylene	1.1	---	
95-50-1	1,2-Dichlorobenzene	1.1	---	
106-46-7	1,4-Dichlorobenzene	1.1	---	
74-88-4	Methyl Iodide	1.1	---	
107-13-1	Acrylonitrile	5.3	---	
74-95-3	Dibromomethane	1.1	---	
630-20-6	1,1,1,2-Tetrachloroethane	1.1	---	
96-12-8	1,2-Dibromo-3-chloropropane	5.3	---	
96-18-4	1,2,3-Trichloropropane	2.1	---	
110-57-6	trans-1,4-Dichloro-2-butene	5.3	---	

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: SS-1-2
MATRIX SPIKE DUP

Lab Sample ID: ML66F
LIMS ID: 08-4486
Matrix: Soil
Date Analyzed: 03/07/08 21:10

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	1.1	---	
74-97-5	Bromochloromethane	1.1	---	

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	117%
d8-Toluene	78.3%
Bromofluorobenzene	67.6%
d4-1,2-Dichlorobenzene	88.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2

Sample ID: SS-1-2

MATRIX SPIKE

Lab Sample ID: ML66F
LIMS ID: 08-4486
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 03/17/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Instrument/Analyst MS: FINN1/PAB
MSD: FINN1/PAB
Date Analyzed MS: 03/07/08 20:43
MSD: 03/07/08 21:10

Sample Amount MS: 4.70 g-dry-wt
MSD: 4.73 g-dry-wt
Purge Volume MS: 5.0 mL
MSD: 5.0 mL
Moisture: 5.9%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Chloromethane	< 1.1 U	33.6	53.2	63.2%	34.4	52.9	65.0%	2.4%
Bromomethane	< 1.1 U	57.5	53.2	108%	57.2	52.9	108%	0.5%
Vinyl Chloride	< 1.1 U	67.7	53.2	127%	64.8	52.9	122%	4.4%
Chloroethane	< 1.1 U	69.2	53.2	130%	70.6	52.9	133%	2.0%
Methylene Chloride	2.5	70.9	53.2	129%	71.1	52.9	130%	0.3%
Acetone	77.6	362	266	107%	364	264	108%	0.6%
Carbon Disulfide	1.6	58.6	53.2	107%	57.3	52.9	105%	2.2%
1,1-Dichloroethene	< 1.1 U	63.5	53.2	119%	64.3	52.9	122%	1.3%
1,1-Dichloroethane	< 1.1 U	59.7	53.2	112%	60.9	52.9	115%	2.0%
trans-1,2-Dichloroethene	< 1.1 U	57.4	53.2	108%	58.0	52.9	110%	1.0%
cis-1,2-Dichloroethene	< 1.1 U	57.4	53.2	108%	59.2	52.9	112%	3.1%
Chloroform	< 1.1 U	61.0	53.2	115%	59.6	52.9	113%	2.3%
1,2-Dichloroethane	< 1.1 U	61.2	53.2	115%	59.6	52.9	113%	2.6%
2-Butanone	6.2	289	266	106%	291	264	108%	0.7%
1,1,1-Trichloroethane	< 1.1 U	57.1	53.2	107%	55.7	52.9	105%	2.5%
Carbon Tetrachloride	< 1.1 U	54.1	53.2	102%	50.5	52.9	95.5%	6.9%
Vinyl Acetate	< 5.3 U	< 5.3 U	53.2	NA	< 5.3 U	52.9	NA	NA
Bromodichloromethane	< 1.1 U	60.8	53.2	114%	57.4	52.9	109%	5.8%
1,2-Dichloropropane	< 1.1 U	56.2	53.2	106%	54.0	52.9	102%	4.0%
cis-1,3-Dichloropropene	< 1.1 U	43.7	53.2	82.1%	39.4	52.9	74.5%	10.3%
Trichloroethene	< 1.1 U	52.2	53.2	98.1%	49.2	52.9	93.0%	5.9%
Dibromochloromethane	< 1.1 U	60.8	53.2	114%	61.7	52.9	117%	1.5%
1,1,2-Trichloroethane	< 1.1 U	55.9	53.2	105%	52.6	52.9	99.4%	6.1%
Benzene	< 1.1 U	59.3	53.2	111%	56.9	52.9	108%	4.1%
trans-1,3-Dichloropropene	< 1.1 U	44.0	53.2	82.7%	39.6	52.9	74.9%	10.5%
Bromoform	< 1.1 U	170	53.2	320%	174	52.9	329%	2.3%
4-Methyl-2-Pentanone (MIBK)	< 5.3 U	229	266	86.1%	199	264	75.4%	14.0%
2-Hexanone	< 5.3 U	337	266	127%	263	264	99.6%	24.7%
Tetrachloroethene	< 1.1 U	54.3	53.2	102%	53.5	52.9	101%	1.5%
1,1,2,2-Tetrachloroethane	< 1.1 U	216	53.2	406%	226	52.9	427%	4.5%
Toluene	2.0	48.6	53.2	87.6%	42.4	52.9	76.4%	13.6%
Chlorobenzene	< 1.1 U	56.6	53.2	106%	56.0	52.9	106%	1.1%
Ethylbenzene	< 1.1 U	54.9	53.2	103%	51.9	52.9	98.1%	5.6%
Styrene	< 1.1 U	44.9	53.2	84.4%	42.7	52.9	80.7%	5.0%
Trichlorofluoromethane	< 1.1 U	58.3	53.2	110%	58.6	52.9	111%	0.5%
m,p-Xylene	< 1.1 U	97.9	106	92.4%	94.2	106	88.9%	3.9%
o-Xylene	< 1.1 U	39.4	53.2	74.1%	36.8	52.9	69.6%	6.8%
1,2-Dichlorobenzene	< 1.1 U	59.2	53.2	111%	57.1	52.9	108%	3.6%
1,4-Dichlorobenzene	< 1.1 U	69.1	53.2	130%	66.1	52.9	125%	4.4%
Methyl Iodide	< 1.1 U	63.1	53.2	119%	58.7	52.9	111%	7.2%
Acrylonitrile	< 5.3 U	65.4	53.2	123%	58.3	52.9	110%	11.5%
Dibromomethane	< 1.1 U	58.8	53.2	111%	56.5	52.9	107%	4.0%
1,1,1,2-Tetrachloroethane	< 1.1 U	49.1	53.2	92.3%	48.2	52.9	91.1%	1.8%
1,2-Dibromo-3-chloropropane	< 5.3 U	132	53.2	248%	135	52.9	255%	2.2%
1,2,3-Trichloropropane	< 2.1 U	230	53.2	432%	240	52.9	454%	4.3%
trans-1,4-Dichloro-2-butene	< 5.3 U	183	53.2	344%	170	52.9	321%	7.4%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: SS-1-2
MATRIX SPIKE

Lab Sample ID: ML66F
LIMS ID: 08-4486
Matrix: Soil

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Ethylene Dibromide	< 1.1 U	45.6	53.2	85.7%	41.8	52.9	79.0%	8.7%
Bromochloromethane	< 1.1 U	59.5	53.2	112%	60.3	52.9	114%	1.3%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

NA-No recovery due to high concentration of analyte in original sample,
calculated negative recovery, or undetected spike.
RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2Sample ID: TRIP BLANK
SAMPLE

Lab Sample ID: ML66H

QC Report No: ML66-Parametrix, Inc.

LIMS ID: 08-4488

Project: Yakima

Matrix: Water

555-5753-001-02-022

Data Release Authorized: 

Date Sampled: 03/03/08

Reported: 03/17/08

Date Received: 03/05/08

Instrument/Analyst: FINN1/PAB

Sample Amount: 5.00 mL

Date Analyzed: 03/07/08 20:16

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: TRIP BLANK
SAMPLE

Lab Sample ID: ML66H
LIMS ID: 08-4488
Matrix: Water
Date Analyzed: 03/07/08 20:16

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result	Q
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Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	111%
d8-Toluene	101%
Bromofluorobenzene	93.3%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2

Sample ID: LCS-030708
LAB CONTROL SAMPLE

Lab Sample ID: LCS-030708
LIMS ID: 08-4486
Matrix: Soil
Data Release Authorized: 
Reported: 03/17/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN1/PAB
LCSD: FINN1/PAB
Date Analyzed LCS: 03/07/08 11:45
LCSD: 03/07/08 12:24

Sample Amount LCS: 5.00 g-dry-wt
LCSD: 5.00 g-dry-wt
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL
Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	38.0	50.0	76.0%	38.7	50.0	77.4%	1.8%
Bromomethane	44.1	50.0	88.2%	44.9	50.0	89.8%	1.8%
Vinyl Chloride	46.2	50.0	92.4%	45.9	50.0	91.8%	0.7%
Chloroethane	48.2	50.0	96.4%	49.2	50.0	98.4%	2.1%
Methylene Chloride	48.1	50.0	96.2%	49.2	50.0	98.4%	2.3%
Acetone	229	250	91.6%	230	250	92.0%	0.4%
Carbon Disulfide	49.5	50.0	99.0%	49.0	50.0	98.0%	1.0%
1,1-Dichloroethene	50.0	50.0	100%	48.8	50.0	97.6%	2.4%
1,1-Dichloroethane	51.1	50.0	102%	52.0	50.0	104%	1.7%
trans-1,2-Dichloroethene	49.8	50.0	99.6%	50.0	50.0	100%	0.4%
cis-1,2-Dichloroethene	49.5	50.0	99.0%	50.9	50.0	102%	2.8%
Chloroform	50.2	50.0	100%	50.9	50.0	102%	1.4%
1,2-Dichloroethane	50.1	50.0	100%	51.3	50.0	103%	2.4%
2-Butanone	224	250	89.6%	233	250	93.2%	3.9%
1,1,1-Trichloroethane	51.6	50.0	103%	51.0	50.0	102%	1.2%
Carbon Tetrachloride	53.8	50.0	108%	53.2	50.0	106%	1.1%
Vinyl Acetate	49.7	50.0	99.4%	51.3	50.0	103%	3.2%
Bromodichloromethane	55.5	50.0	111%	56.3	50.0	113%	1.4%
1,2-Dichloropropane	51.5	50.0	103%	51.6	50.0	103%	0.2%
cis-1,3-Dichloropropene	46.0	50.0	92.0%	45.7	50.0	91.4%	0.7%
Trichloroethene	53.0	50.0	106%	52.8	50.0	106%	0.4%
Dibromochloromethane	43.7	50.0	87.4%	44.2	50.0	88.4%	1.1%
1,1,2-Trichloroethane	50.0	50.0	100%	51.1	50.0	102%	2.2%
Benzene	54.7	50.0	109%	55.3	50.0	111%	1.1%
trans-1,3-Dichloropropene	44.9	50.0	89.8%	45.4	50.0	90.8%	1.1%
Bromoform	41.5	50.0	83.0%	43.0	50.0	86.0%	3.6%
4-Methyl-2-Pentanone (MIBK)	212	250	84.8%	221	250	88.4%	4.2%
2-Hexanone	261	250	104%	275	250	110%	5.2%
Tetrachloroethene	53.2	50.0	106%	53.2	50.0	106%	0.0%
1,1,2,2-Tetrachloroethane	49.0	50.0	98.0%	51.8	50.0	104%	5.6%
Toluene	52.2	50.0	104%	52.2	50.0	104%	0.0%
Chlorobenzene	53.7	50.0	107%	53.0	50.0	106%	1.3%
Ethylbenzene	58.9	50.0	118%	58.1	50.0	116%	1.4%
Styrene	51.7	50.0	103%	52.1	50.0	104%	0.8%
Trichlorofluoromethane	44.8	50.0	89.6%	44.8	50.0	89.6%	0.0%
m,p-Xylene	118	100	118%	115	100	115%	2.6%
o-Xylene	47.0	50.0	94.0%	46.5	50.0	93.0%	1.1%
1,2-Dichlorobenzene	50.6	50.0	101%	50.5	50.0	101%	0.2%
1,4-Dichlorobenzene	54.9	50.0	110%	54.0	50.0	108%	1.7%
Methyl Iodide	52.7	50.0	105%	53.5	50.0	107%	1.5%
Acrylonitrile	50.6	50.0	101%	49.8	50.0	99.6%	1.6%
Dibromomethane	49.3	50.0	98.6%	50.4	50.0	101%	2.2%
1,1,1,2-Tetrachloroethane	43.6	50.0	87.2%	43.6	50.0	87.2%	0.0%
1,2-Dibromo-3-chloropropane	47.0	50.0	94.0%	49.2	50.0	98.4%	4.6%
1,2,3-Trichloropropane	47.6	50.0	95.2%	49.6	50.0	99.2%	4.1%
trans-1,4-Dichloro-2-butene	51.5	50.0	103%	52.7	50.0	105%	2.3%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: LCS-030708
LAB CONTROL SAMPLE

Lab Sample ID: LCS-030708
LIMS ID: 08-4486
Matrix: Soil

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

Analyte	LCS	Spike	LCS	LCSD	Spike	LCS	RPD
		Added-LCS	Recovery		Added-LCSD	Recovery	
Ethylene Dibromide	43.9	50.0	87.8%	44.2	50.0	88.4%	0.7%
Bromochloromethane	47.1	50.0	94.2%	49.0	50.0	98.0%	4.0%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	98.6%	98.0%
d8-Toluene	100%	98.1%
Bromofluorobenzene	104%	99.9%
d4-1,2-Dichlorobenzene	99.7%	99.8%

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MB-031008
 METHOD BLANK

Lab Sample ID: MB-031008
 LIMS ID: 08-4481
 Matrix: Soil
 Data Release Authorized: *AS*
 Reported: 03/13/08

QC Report No: ML66-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001-02-022
 Date Sampled: NA
 Date Received: NA

Date Analyzed: 03/10/08 09:29
 Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
 Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	12	< 12 U	
108-88-3	Toluene	12	< 12 U	
100-41-4	Ethylbenzene	12	< 12 U	
	m,p-Xylene	25	< 25 U	
95-47-6	o-Xylene	12	< 12 U	
	Gasoline Range Hydrocarbons	5.0	< 5.0 U	---

BETX Surrogate Recovery

Trifluorotoluene	100%
Bromobenzene	103%

Gasoline Surrogate Recovery

Trifluorotoluene	99.6%
Bromobenzene	102%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: B-3-14

SAMPLE

Lab Sample ID: ML66A

LIMS ID: 08-4481

Matrix: Soil

Data Release Authorized: 

Reported: 03/13/08

QC Report No: ML66-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001-02-022

Date Sampled: 03/03/08

Date Received: 03/05/08

Date Analyzed: 03/10/08 12:23

Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL

Sample Amount: 100 mg-dry-wt

Percent Moisture: 7.1%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	12	< 12 U	
108-88-3	Toluene	12	< 12 U	
100-41-4	Ethylbenzene	12	< 12 U	
	m,p-Xylene	24	< 24 U	
95-47-6	o-Xylene	12	< 12 U	
	Gasoline Range Hydrocarbons	4.8	< 4.8 U	GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	96.8%
Bromobenzene	96.2%

Gasoline Surrogate Recovery

Trifluorotoluene	97.1%
Bromobenzene	97.0%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: SS-2-1.5

SAMPLE

Lab Sample ID: ML66B

LIMS ID: 08-4482

Matrix: Soil

Data Release Authorized:

Reported: 03/13/08

QC Report No: ML66-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001-02-022

Date Sampled: 03/03/08

Date Received: 03/05/08

Date Analyzed: 03/10/08 12:47

Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL

Sample Amount: 64 mg-dry-wt

Percent Moisture: 15.9%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	20	< 20 U
108-88-3	Toluene	20	< 20 U
100-41-4	Ethylbenzene	20	< 20 U
	m,p-Xylene	39	< 39 U
95-47-6	o-Xylene	20	< 20 U

Gasoline Range Hydrocarbons	7.9	< 7.9 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	97.0%
Bromobenzene	96.2%

Gasoline Surrogate Recovery

Trifluorotoluene	96.5%
Bromobenzene	97.3%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: FLY ASH
SAMPLE

Lab Sample ID: ML66C

LIMS ID: 08-4483

Matrix: Soil

Data Release Authorized: *[Signature]*

Reported: 03/13/08

QC Report No: ML66-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001-02-022

Date Sampled: 03/03/08

Date Received: 03/05/08

Date Analyzed: 03/10/08 14:02

Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL

Sample Amount: 17 mg-dry-wt

Percent Moisture: 63.3%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	72	160	
108-88-3	Toluene	72	< 72 U	
100-41-4	Ethylbenzene	72	< 72 U	
	m,p-Xylene	140	< 140 U	
95-47-6	o-Xylene	72	< 72 U	
	Gasoline Range Hydrocarbons	29	< 29 U	---

BETX Surrogate Recovery

Trifluorotoluene	63.5%
Bromobenzene	34.0%

Gasoline Surrogate Recovery

Trifluorotoluene	64.1%
Bromobenzene	35.3%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: FLY ASH
 REANALYSIS

Lab Sample ID: ML66C
 LIMS ID: 08-4483
 Matrix: Soil
 Data Release Authorized: *[Signature]*
 Reported: 03/13/08

QC Report No: ML66-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001-02-022
 Date Sampled: 03/03/08
 Date Received: 03/05/08

Date Analyzed: 03/10/08 20:37
 Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
 Sample Amount: 17 mg-dry-wt
 Percent Moisture: 63.3%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	72	< 72 U	
108-88-3	Toluene	72	< 72 U	
100-41-4	Ethylbenzene	72	< 72 U	
	m,p-Xylene	140	< 140 U	
95-47-6	o-Xylene	72	< 72 U	
	Gasoline Range Hydrocarbons	29	< 29 U	---

BETX Surrogate Recovery

Trifluorotoluene	8.5%
Bromobenzene	2.6%

Gasoline Surrogate Recovery

Trifluorotoluene	8.9%
Bromobenzene	2.8%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.
 Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: B-3-8.5
 SAMPLE

Lab Sample ID: ML66D
 LIMS ID: 08-4484
 Matrix: Soil
 Data Release Authorized: 
 Reported: 03/13/08

QC Report No: ML66-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001-02-022
 Date Sampled: 03/03/08
 Date Received: 03/05/08

Date Analyzed: 03/10/08 14:26
 Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
 Sample Amount: 110 mg-dry-wt
 Percent Moisture: 4.7%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	11	< 11 U	
108-88-3	Toluene	11	< 11 U	
100-41-4	Ethylbenzene	11	< 11 U	
	m,p-Xylene	22	< 22 U	
95-47-6	o-Xylene	11	< 11 U	
	Gasoline Range Hydrocarbons	4.4	< 4.4 U	---

BETX Surrogate Recovery

Trifluorotoluene	88.4%
Bromobenzene	90.0%

Gasoline Surrogate Recovery

Trifluorotoluene	88.5%
Bromobenzene	92.1%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: GP-3-12

SAMPLE

Lab Sample ID: ML66E

LIMS ID: 08-4485

Matrix: Soil

Data Release Authorized: *B*

Reported: 03/13/08

QC Report No: ML66-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001-02-022

Date Sampled: 03/03/08

Date Received: 03/05/08

Date Analyzed: 03/10/08 14:51

Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL

Sample Amount: 110 mg-dry-wt

Percent Moisture: 9.4%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	12	< 12 U	
108-88-3	Toluene	12	< 12 U	
100-41-4	Ethylbenzene	12	< 12 U	
	m,p-Xylene	23	< 23 U	
95-47-6	o-Xylene	12	< 12 U	
	Gasoline Range Hydrocarbons	4.6	< 4.6 U	GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	91.1%
Bromobenzene	93.5%

Gasoline Surrogate Recovery

Trifluorotoluene	91.2%
Bromobenzene	93.6%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: SS-1-2

SAMPLE

Lab Sample ID: ML66F

LIMS ID: 08-4486

Matrix: Soil

Data Release Authorized: 

Reported: 03/13/08

QC Report No: ML66-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001-02-022

Date Sampled: 03/03/08

Date Received: 03/05/08

Date Analyzed: 03/10/08 15:16

Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL

Sample Amount: 90 mg-dry-wt

Percent Moisture: 5.9%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	14	< 14 U
108-88-3	Toluene	14	< 14 U
100-41-4	Ethylbenzene	14	< 14 U
	m,p-Xylene	28	< 28 U
95-47-6	o-Xylene	14	< 14 U

Gasoline Range Hydrocarbons	5.6	< 5.6 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	96.4%
Bromobenzene	98.5%

Gasoline Surrogate Recovery

Trifluorotoluene	96.6%
Bromobenzene	99.2%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: B-2-13

SAMPLE

Lab Sample ID: ML66G

LIMS ID: 08-4487

Matrix: Soil

Data Release Authorized: 

Reported: 03/13/08

QC Report No: ML66-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001-02-022

Date Sampled: 03/03/08

Date Received: 03/05/08

Date Analyzed: 03/10/08 15:40

Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL

Sample Amount: 93 mg-dry-wt

Percent Moisture: 10.5%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	13	< 13 U	
108-88-3	Toluene	13	75	
100-41-4	Ethylbenzene	13	< 13 U	
	m,p-Xylene	27	< 27 U	
95-47-6	o-Xylene	13	< 13 U	
	Gasoline Range Hydrocarbons	5.4	< 5.4 U	---

BETX Surrogate Recovery

Trifluorotoluene	97.3%
Bromobenzene	100%

Gasoline Surrogate Recovery

Trifluorotoluene	96.8%
Bromobenzene	99.9%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: TRIP BLANK
 SAMPLE

Lab Sample ID: ML66H
 LIMS ID: 08-4488
 Matrix: Water
 Data Release Authorized: 
 Reported: 03/13/08

QC Report No: ML66-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001-02-022
 Date Sampled: 03/03/08
 Date Received: 03/05/08

Date Analyzed: 03/10/08 10:44
 Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	0.25	< 0.25 U	
108-88-3	Toluene	0.25	< 0.25 U	
100-41-4	Ethylbenzene	0.25	< 0.25 U	
	m,p-Xylene	0.50	< 0.50 U	
95-47-6	o-Xylene	0.25	< 0.25 U	
	Gasoline Range Hydrocarbons	0.10	< 0.10 U	---

BETX Surrogate Recovery

Trifluorotoluene	106%
Bromobenzene	104%

Gasoline Surrogate Recovery

Trifluorotoluene	105%
Bromobenzene	104%

BETX values reported in $\mu\text{g/L}$ (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: LCS-031008
LAB CONTROL SAMPLE

Lab Sample ID: LCS-031008
LIMS ID: 08-4481
Matrix: Soil
Data Release Authorized: *OB*
Reported: 03/13/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
Event: 555-5753-001-02-022
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 03/10/08 08:40
LCSD: 03/10/08 09:04
Instrument/Analyst LCS: PID3/PKC
LCSD: PID3/PKC

Purge Volume: 5.0 mL
Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	57.1	50.0	114%	52.2	50.0	104%	9.0%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	104%	99.7%
Bromobenzene	105%	104%

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

Page 1 of 1

Sample ID: LCS-031008

LAB CONTROL SAMPLE

Lab Sample ID: LCS-031008

LIMS ID: 08-4481

Matrix: Soil

Data Release Authorized: *AB*

Reported: 03/13/08

QC Report No: ML66-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001-02-022

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 03/10/08 08:40

Purge Volume: 5.0 mL

LCSD: 03/10/08 09:04

Instrument/Analyst LCS: PID3/PKC

Sample Amount LCS: 100 mg-dry-wt

LCSD: PID3/PKC

LCSD: 100 mg-dry-wt

Analyte	LCS	Spike	LCS	LCS	Spike	LCS	RPD
		Added-LCS	Recovery		Added-LCSD	Recovery	
Benzene	360	350	103%	354	350	101%	1.7%
Toluene	3160	3100	102%	3100	3100	100%	1.9%
Ethylbenzene	596	595	100%	585	595	98.3%	1.9%
m,p-Xylene	2250	2230	101%	2190	2230	98.2%	2.7%
o-Xylene	820	790	104%	796	790	101%	3.0%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	105%	101%
Bromobenzene	104%	103%

PC
3/11/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a006.d ARI ID: MB0310S1
Data file 2: /chem3/pid3.i/20080310-1.b/0310a006.d Client ID:
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 09:29
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.940	-0.003	6990	93852	99.6	TFT(Surr)
13.630	-0.003	3466	41495	102.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	4641	0.006
8015B (2MP-TMB)	3981	0.002
AKGas (nC6-nC10)	3980	0.003
NWGas (Tol-Nap)	4641	0.005

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.939	-0.003	28020	100.4	TFT(Surr)
13.628	-0.003	48984	103.0	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

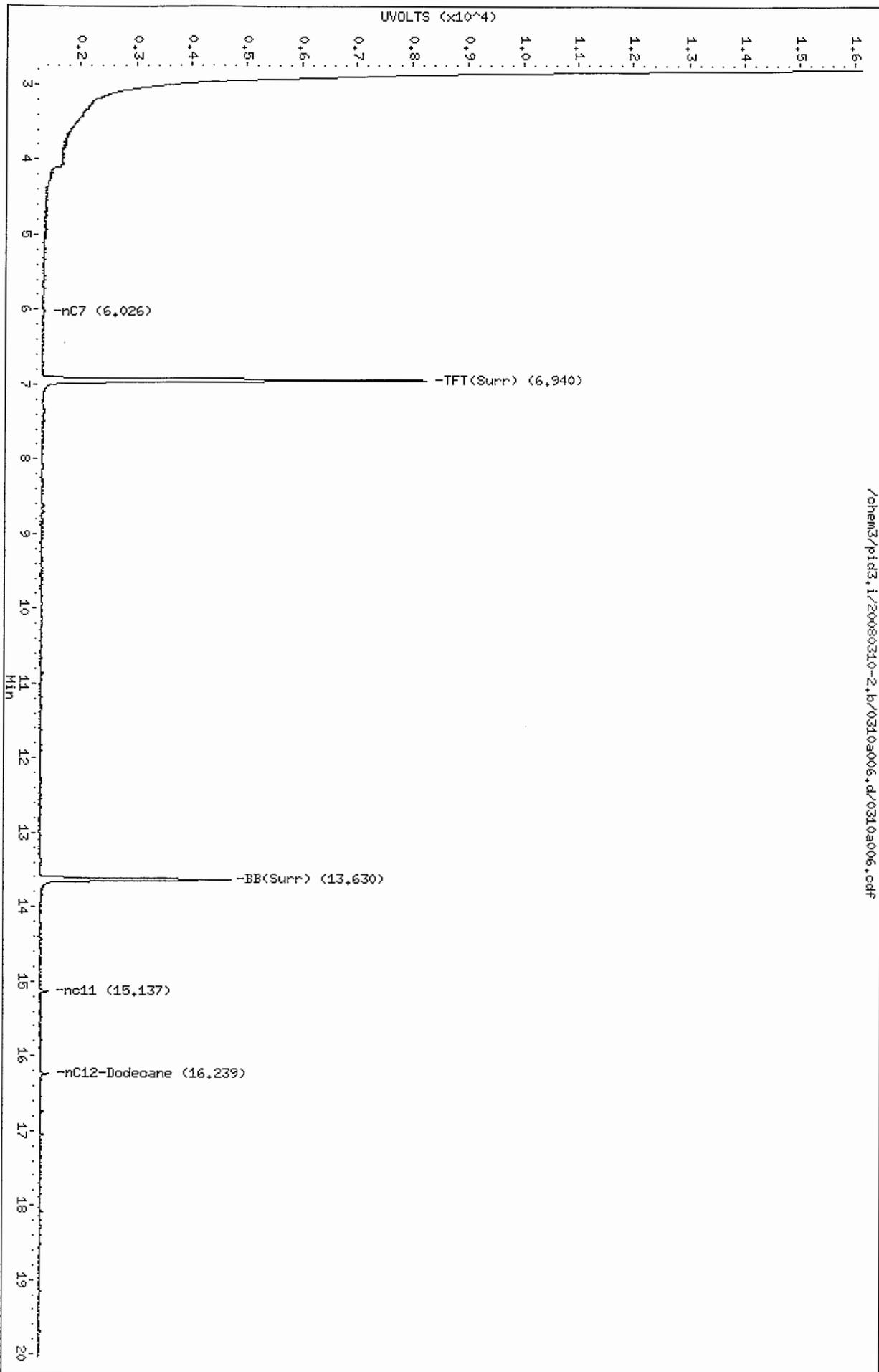
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.b/0310a006.d
Date: 10-MAR-2008 09:29
Client ID:
Sample Info: HB0310S1

Column phase: RTX 502-2 FID

/chem3/pid3.i/20080310-2.b/0310a006.d/0310a006.cdf

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a004.d ARI ID: LCS0310S1
Data file 2: /chem3/pid3.i/20080310-1.b/0310a004.d Client ID:
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 08:40
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.940	-0.003	7293	99829	103.9	TFT (Surr)
13.631	-0.002	3558	41874	105.3	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	948682	1.136
8015B (2MP-TMB)	1939838	1.106
AKGas (nC6-nC10)	1368849	1.117
NWGas (Tol-Nap)	997337	1.142

* Surrogate areas are subtracted from Total Area
=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.938	-0.004	29307	105.0	TFT (Surr)
13.629	-0.002	49703	104.5	BB (Surr)

AROMATICS (PID)

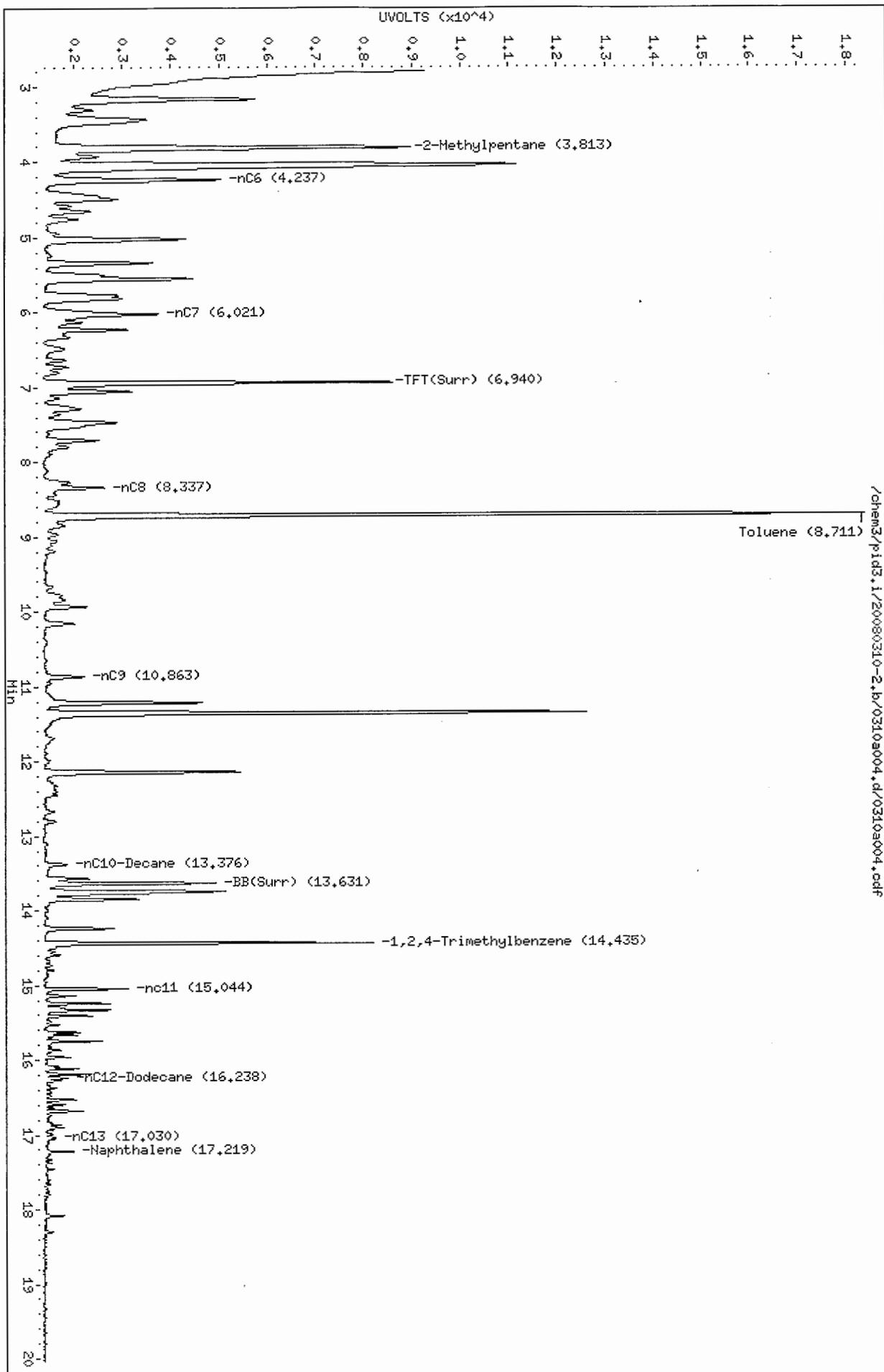
RT	Shift	Response	Amount	Compound
6.226	-0.004	12451	7.20	Benzene
8.709	-0.003	112935	63.16	Toluene
11.210	-0.003	19322	11.93	Ethylbenzene
11.349	0.000	79122	44.95	M/P-Xylene
12.137	-0.003	24470	16.39	O-Xylene
4.052	-0.003	39145	81.91	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.b/0310a004.d
Date: 10-MAR-2008 08:40
Client ID:
Sample Info: LCS0310S1

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



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BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a005.d ARI ID: LCSD0310S1
Data file 2: /chem3/pid3.i/20080310-1.b/0310a005.d Client ID:
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 09:04
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.942	-0.001	6993	96388	99.7	TFT(Surr)
13.630	-0.003	3499	40354	103.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	868671	1.041
8015B (2MP-TMB)	1843154	1.051
AKGas (nC6-nC10)	1287574	1.051
NWGas (Tol-Nap)	910530	1.043

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.940	-0.001	28292	101.3	TFT(Surr)
13.629	-0.003	49174	103.4	BB(Surr)

AROMATICS (PID)

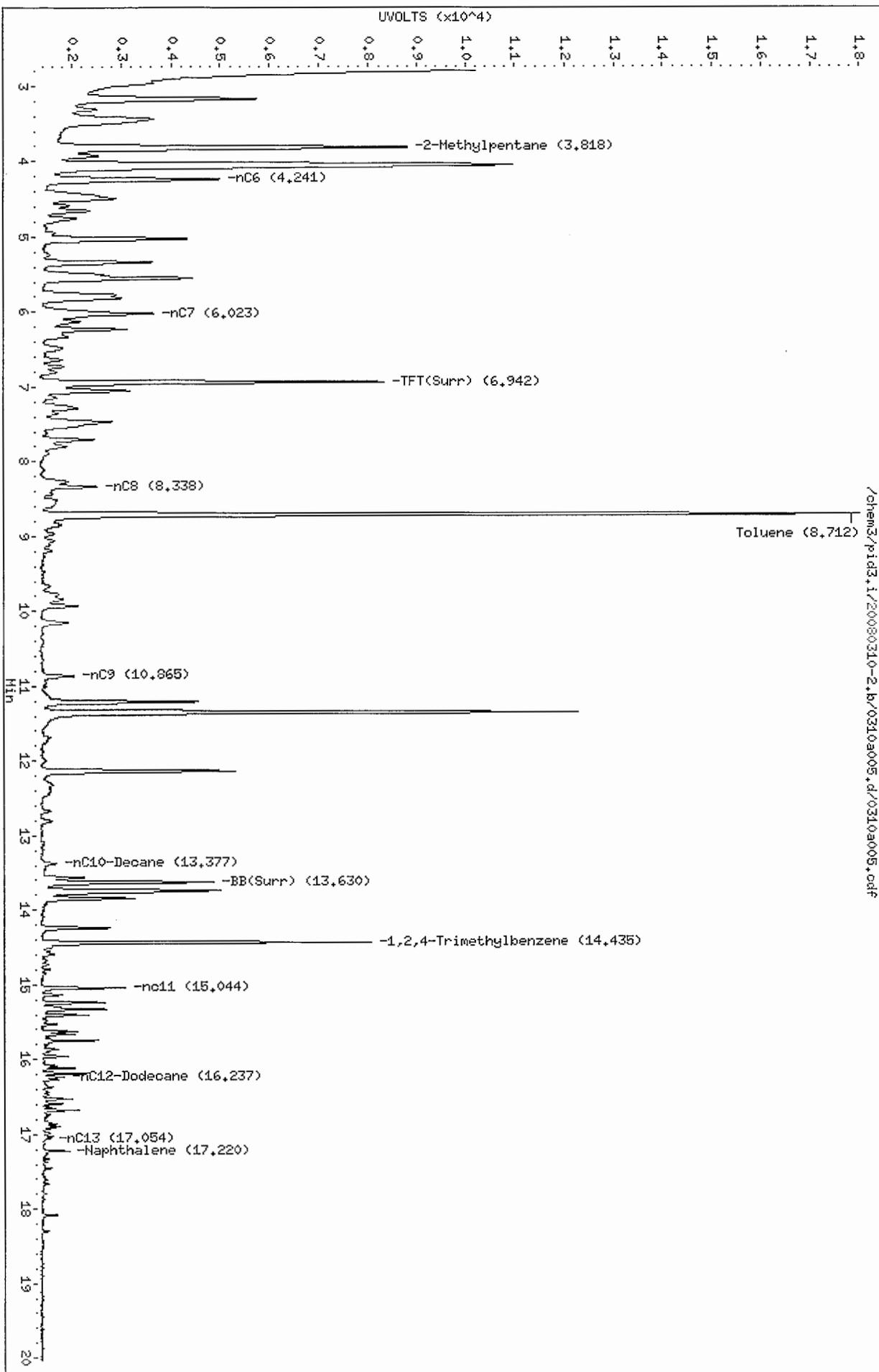
RT	Shift	Response	Amount	Compound
6.229	-0.001	12260	7.09	Benzene
8.711	-0.002	110679	61.90	Toluene
11.211	-0.002	18940	11.70	Ethylbenzene
11.350	0.000	77043	43.77	M/P-Xylene
12.137	-0.003	23779	15.93	O-Xylene
4.058	0.002	37605	78.68	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.b/0310a005.d
Date: 10-MAR-2008 09:04
Client ID:
Sample Info: LCSD0310S1

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



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BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a011.d ARI ID: ML66A
Data file 2: /chem3/pid3.i/20080310-1.b/0310a011.d Client ID: B-3-14
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 12:23
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.938	-0.005	6815	87740	97.1	TFT (Surr)
13.629	-0.003	3280	37014	97.0	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	4154	0.005
8015B (2MP-TMB)	4184	0.002
AKGas (nC6-nC10)	4184	0.003
NWGas (Tol-Nap)	4154	0.005

* Surrogate areas are subtracted from Total Area
=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.937	-0.005	27031	96.8	TFT (Surr)
13.628	-0.003	45762	96.2	BB (Surr)

AROMATICS (PID)

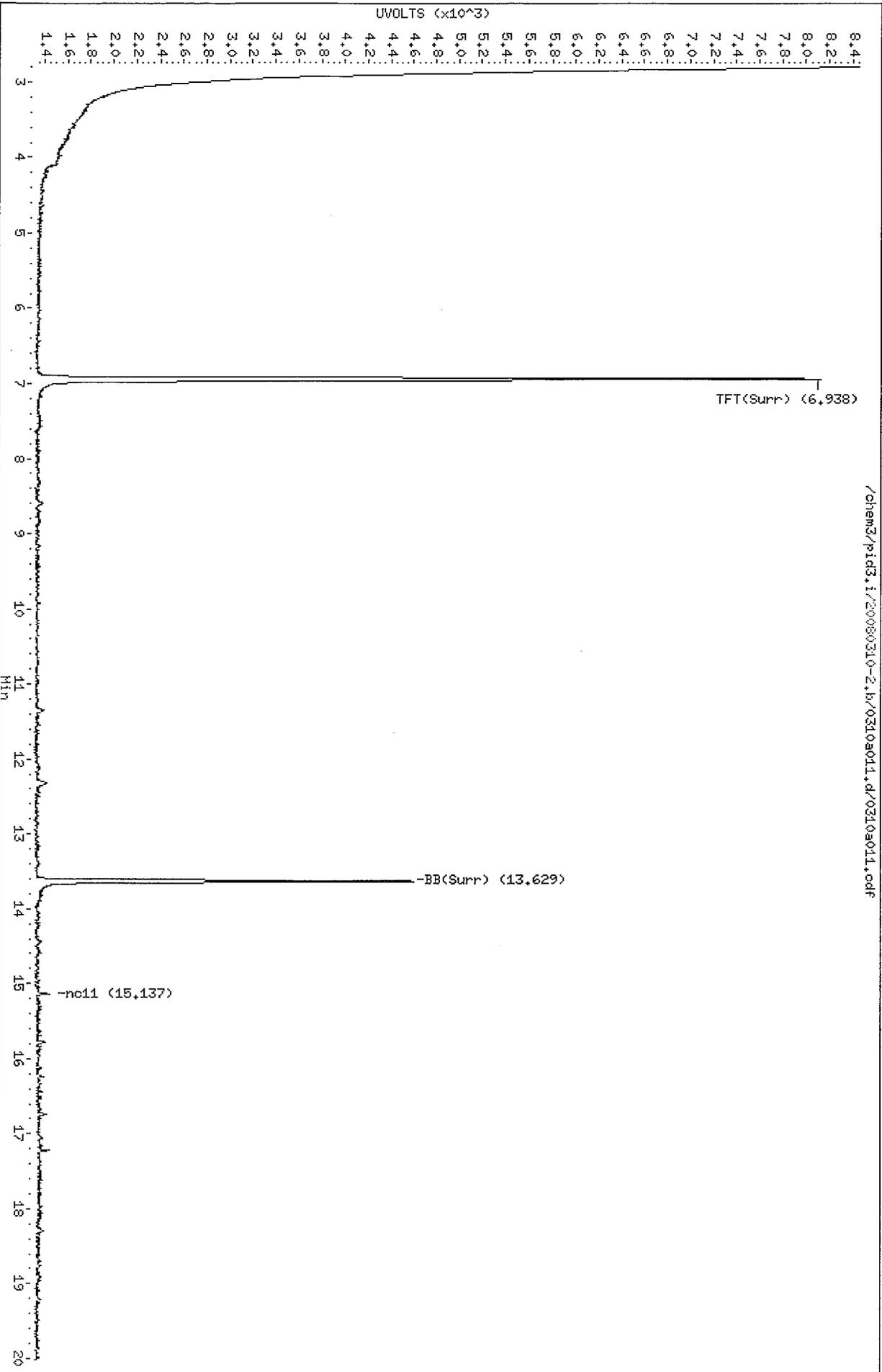
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
11.349	0.000	517	0.29	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.b/0310s011.d
Date: 10-MAR-2008 12:23
Client ID: B-3-14
Sample Info: HL66A

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



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BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a012.d ARI ID: ML66B
Data file 2: /chem3/pid3.i/20080310-1.b/0310a012.d Client ID: SS-2-1.5
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 12:47
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.937	-0.005	6770	85813	96.5	TFT(Surr)
13.630	-0.003	3288	37957	97.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	12368	0.015
8015B (2MP-TMB)	7566	0.004
AKGas (nC6-nC10)	6537	0.005
NWGas (Tol-Nap)	12368	0.014

* Surrogate areas are subtracted from Total Area
=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.936	-0.005	27091	97.0	TFT(Surr)
13.628	-0.003	45734	96.2	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

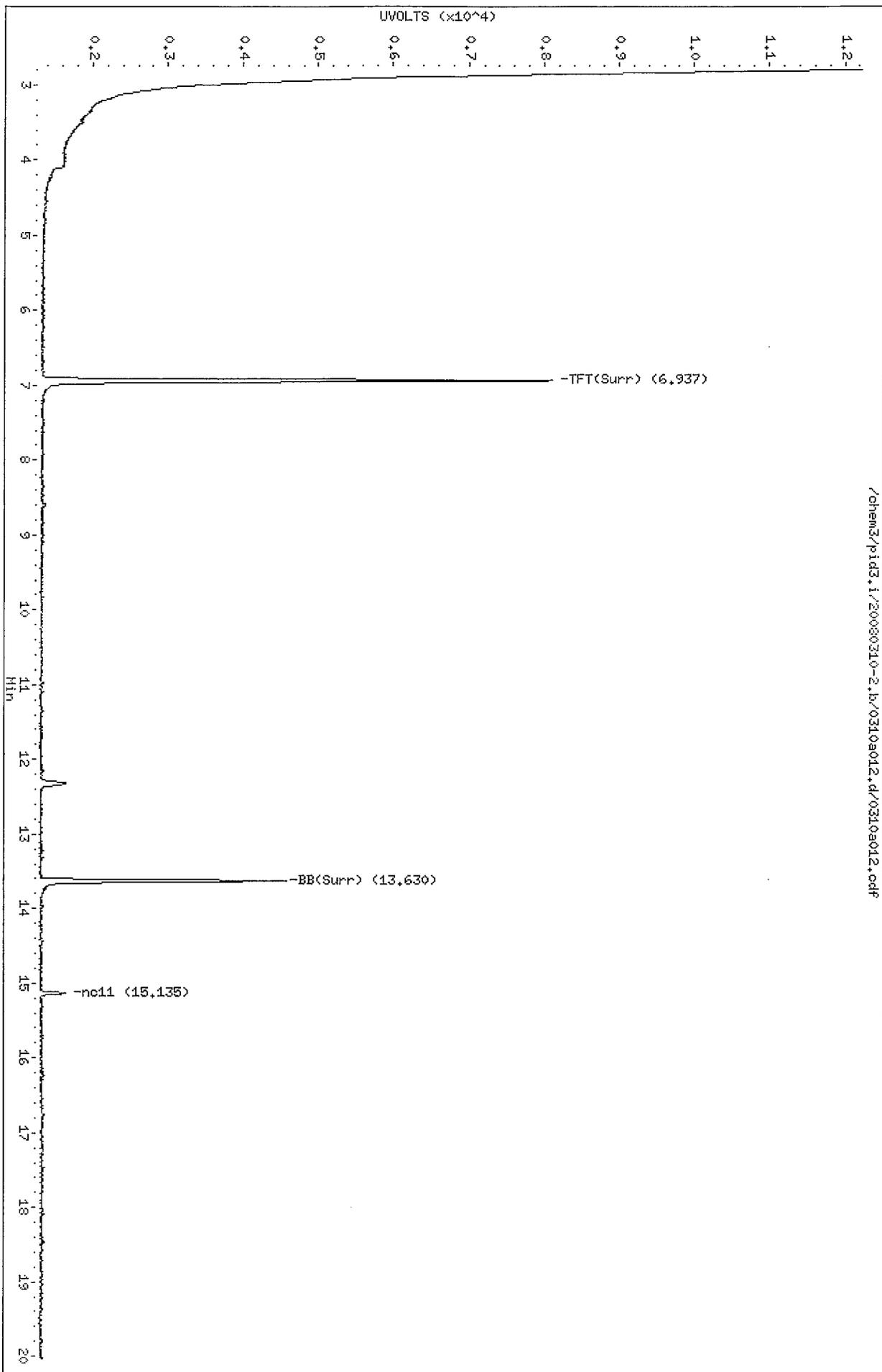
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.b/0310a012.d
Date: 10-MAR-2008 12:47
Client ID: SS-2-1.5
Sample Info: ML66B

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18

/chem3/pid3.i/20080310-2.b/0310a012.d/0310a012.cdf



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Data file 1: /chem3/pid3.i/20080310-2.b/0310a015.d ARI ID: ML66C
 Data file 2: /chem3/pid3.i/20080310-1.b/0310a015.d Client ID: FLY ASH
 Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 14:02
 Instrument: pid3.i Matrix: SOIL
 Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
 BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.939	-0.004	4500	58092	64.1	TFT (Surr)
13.631	-0.002	1193	14138	35.3	BB (Surr)

- matrix, proven with run

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	2409	0.003
8015B (2MP-TMB)	5531	0.003
AKGas (nC6-nC10)	3419	0.003
NWGas (Tol-Nap)	2409	0.003

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.938	-0.004	17736	63.5	TFT (Surr)
13.629	-0.003	16184	34.0	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
6.225	-0.005	979	0.57	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

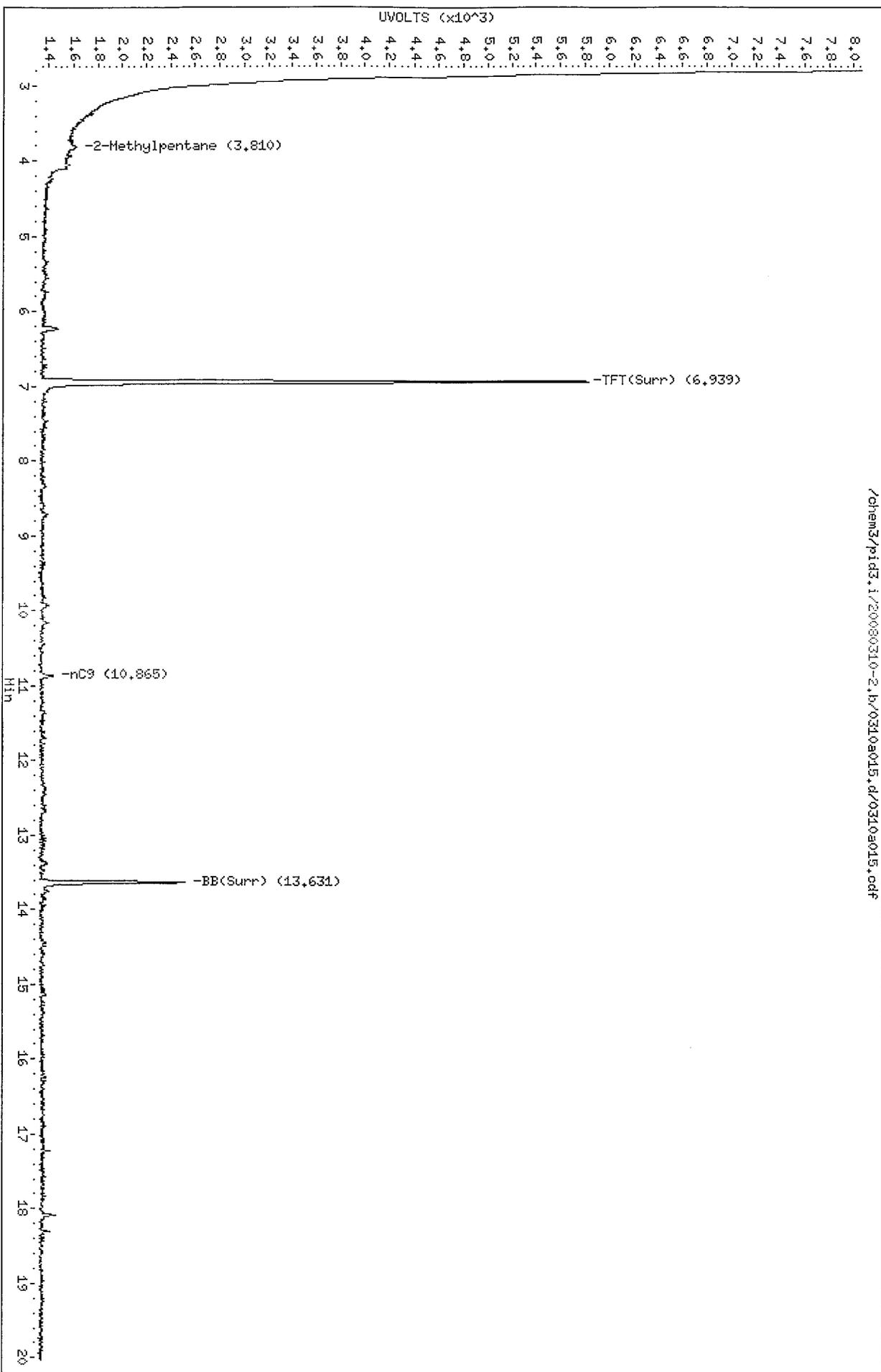
A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.bv0310a015.d
Date: 10-MAR-2008 14:02
Client ID: FLY ASH
Sample Info: HL66C

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18

/chem3/pid3.i/20080310-2.bv0310a015.d/0310a015.cdf



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BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a016.d ARI ID: ML66D
Data file 2: /chem3/pid3.i/20080310-1.b/0310a016.d Client ID: B-3-8.5
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 14:26
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.937	-0.005	6207	79377	88.5	TFT(Surr)
13.628	-0.004	3112	36596	92.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	8930	0.011
8015B (2MP-TMB)	6196	0.004
AKGas (nC6-nC10)	5126	0.004
NWGas (Tol-Nap)	17016	0.019

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.936	-0.006	24677	88.4	TFT(Surr)
13.627	-0.004	42781	90.0	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

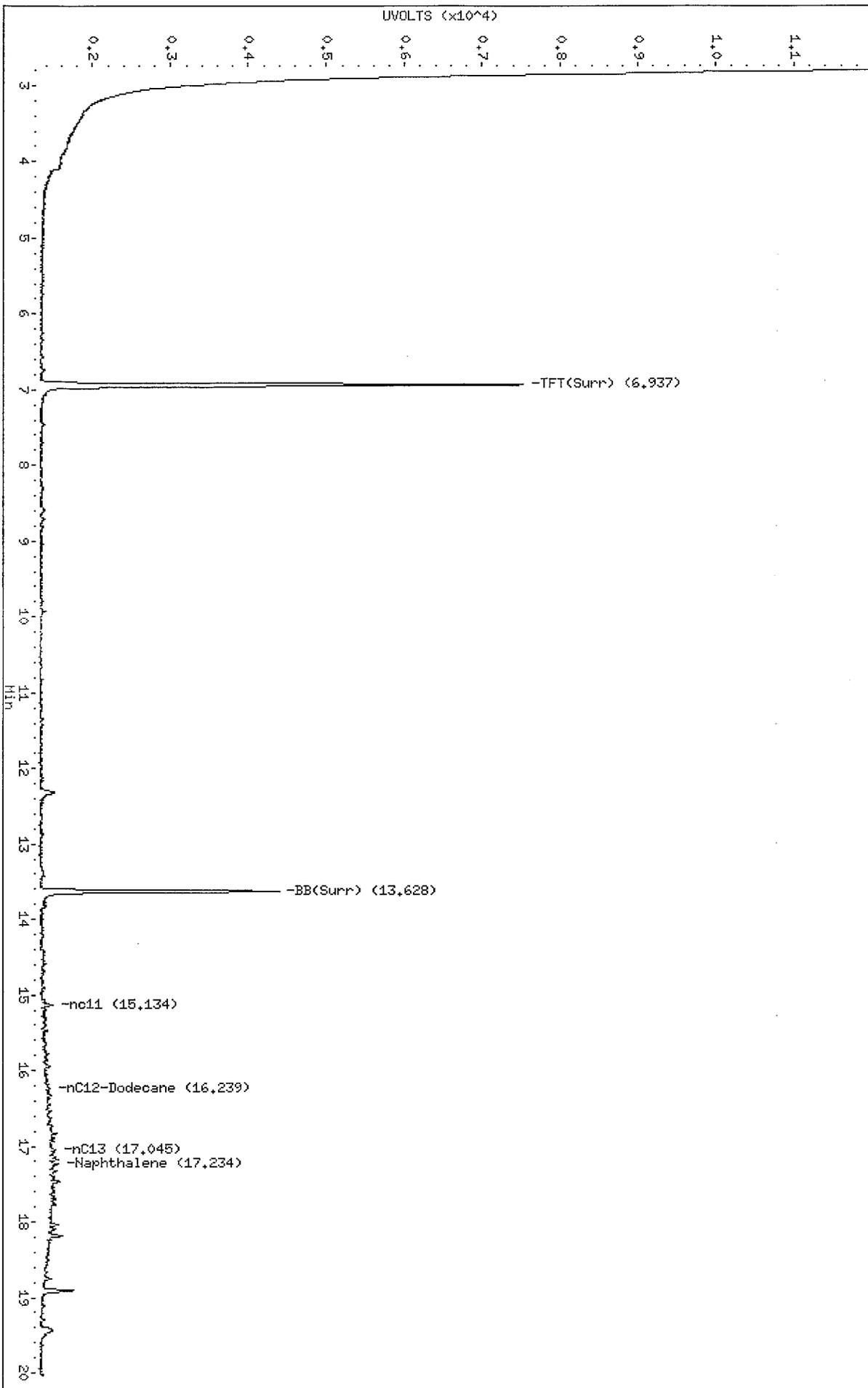
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.b/0310a016.d
Date: 10-MAR-2008 14:26
Client ID: B-3-8.5
Sample Info: ML66D

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18

/chem3/pid3.i/20080310-2.b/0310a016.d/0310a016.pdf



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BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a017.d ARI ID: ML66E
Data file 2: /chem3/pid3.i/20080310-1.b/0310a017.d Client ID: GP-3-12
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 14:51
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	-----	----	-----
6.939	-0.004	6400	83227	91.2	TFT(Surr)
13.630	-0.003	3163	35799	93.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	20574	0.025
8015B (2MP-TMB)	15570	0.009
AKGas (nC6-nC10)	15570	0.013
NWGas (Tol-Nap)	21670	0.025

* Surrogate areas are subtracted from Total Area
=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
6.937	-0.005	25444	91.1	TFT(Surr)
13.628	-0.003	44460	93.5	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
---	----	-----	-----	-----
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

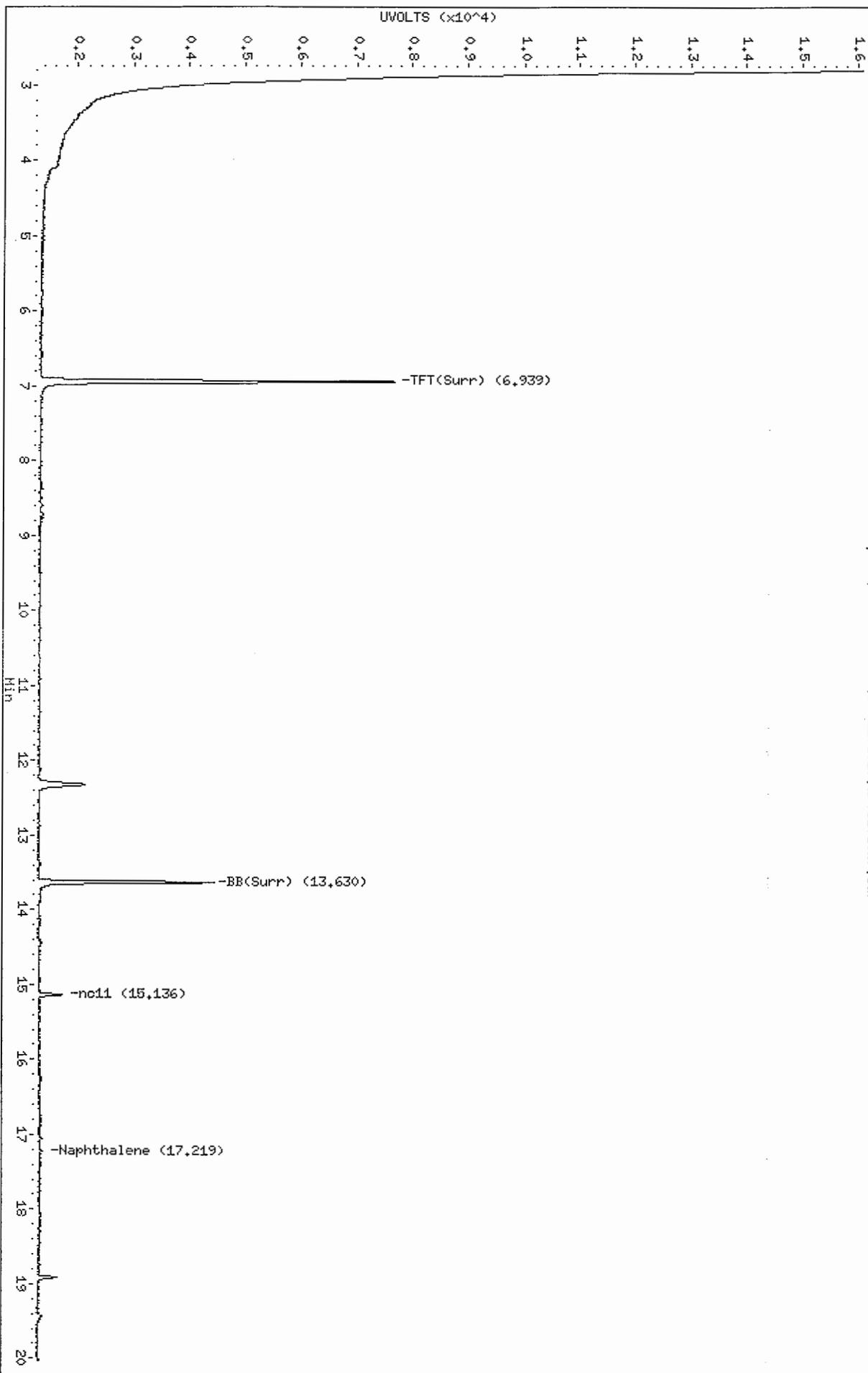
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3,1/20080310-2.b/0310a017.d
Date: 10-MAR-2008 14:51
Client ID: GP-3-12
Sample Info: ML66E

Column phase: RTX 502-2 FID

Instrument: pid3,1
Operator: PC
Column diameter: 0.18

/chem3/pid3,1/20080310-2.b/0310a017.d/0310a017.pdf



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BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a018.d ARI ID: ML66F
Data file 2: /chem3/pid3.i/20080310-1.b/0310a018.d Client ID: SS-1-2
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 15:16
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.938	-0.005	6775	88502	96.6	TFT(Surr)
13.629	-0.004	3352	39622	99.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	61549	0.074
8015B (2MP-TMB)	50711	0.029
AKGas (nC6-nC10)	50710	0.041
NWGas (Tol-Nap)	61549	0.070

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.937	-0.005	26911	96.4	TFT(Surr)
13.627	-0.004	46845	98.5	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

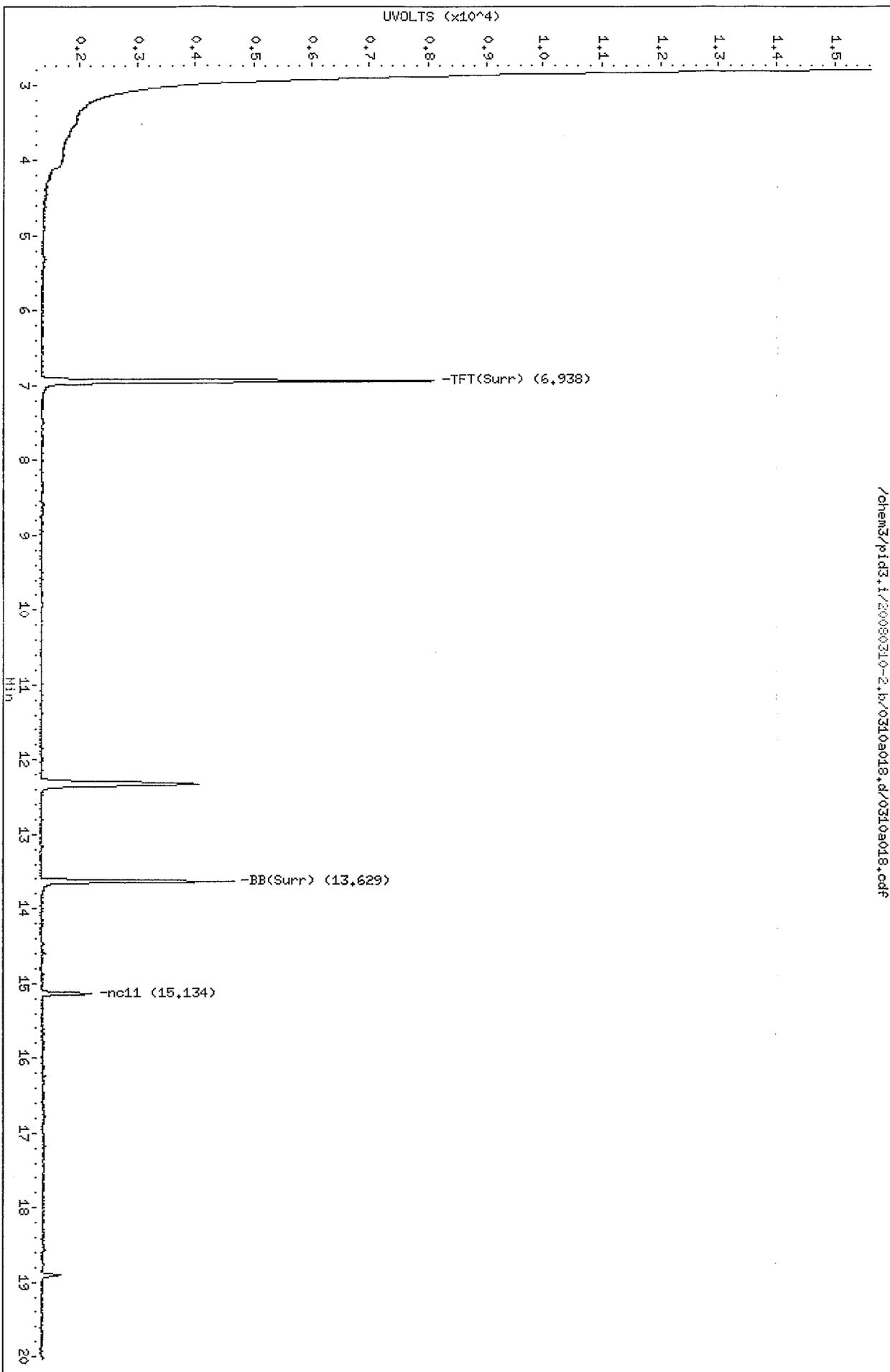
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.b/0310a018.d
Date: 10-MAR-2008 15:16
Client ID: SS-1-2
Sample Info: HLE6F

Column phase: RTX 502-2 FID

/chem3/pid3.i/20080310-2.b/0310a018.d/0310a018.cdf

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



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BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a019.d ARI ID: ML66G
Data file 2: /chem3/pid3.i/20080310-1.b/0310a019.d Client ID: B-2-13
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 15:40
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.940	-0.003	6790	90479	96.8	TFT(Surr)
13.630	-0.003	3376	38454	99.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	40787	0.049
8015B (2MP-TMB)	32921	0.019
AKGas (nC6-nC10)	28707	0.023
NWGas (Tol-Nap)	42520	0.049

* Surrogate areas are subtracted from Total Area
=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.938	-0.004	27170	97.3	TFT(Surr)
13.628	-0.004	47611	100.1	BB(Surr)

AROMATICS (PID)

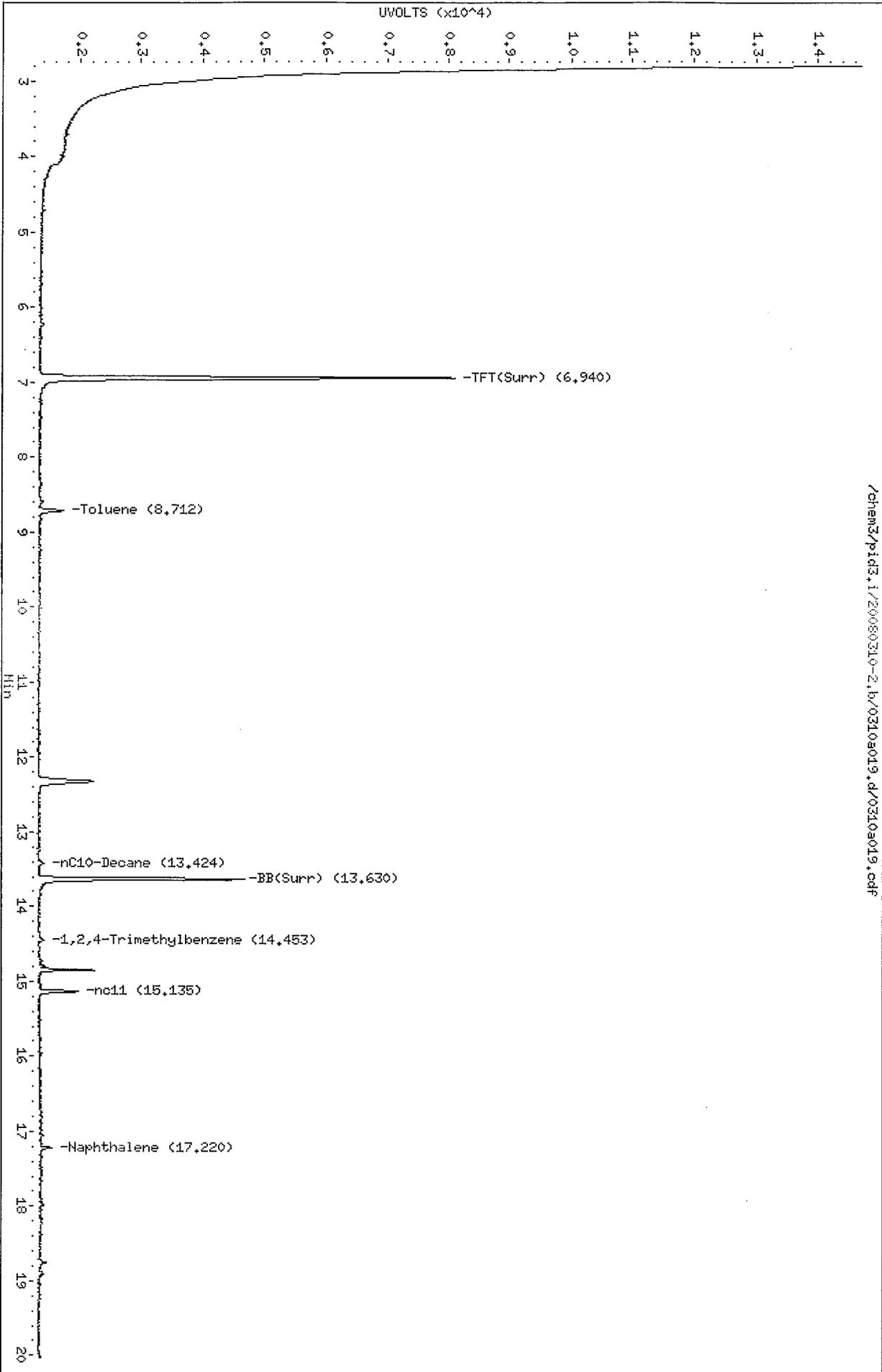
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
8.709	-0.004	2506	1.40	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.b/0310a019.d
Date: 10-MAR-2008 15:40
Client ID: B-2-13
Sample Info: HL66G

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



/chem3/pid3.i/20080310-2.b/0310a019.d/0310a019.cdf

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BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a007.d ARI ID: ML66H
Data file 2: /chem3/pid3.i/20080310-1.b/0310a007.d Client ID: TRIP BLANK
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 10:44
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.950	0.007	7337	95619	104.6	TFT(Surr)
13.640	0.007	3523	40960	104.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	8781	0.011
8015B (2MP-TMB)	1	0.000
AKGas (nC6-nC10)	0	0.000
NWGas (Tol-Nap)	13892	0.016

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.949	0.007	29743	106.5	TFT(Surr)
13.638	0.006	49402	103.9	BB(Surr)

AROMATICS (PID)

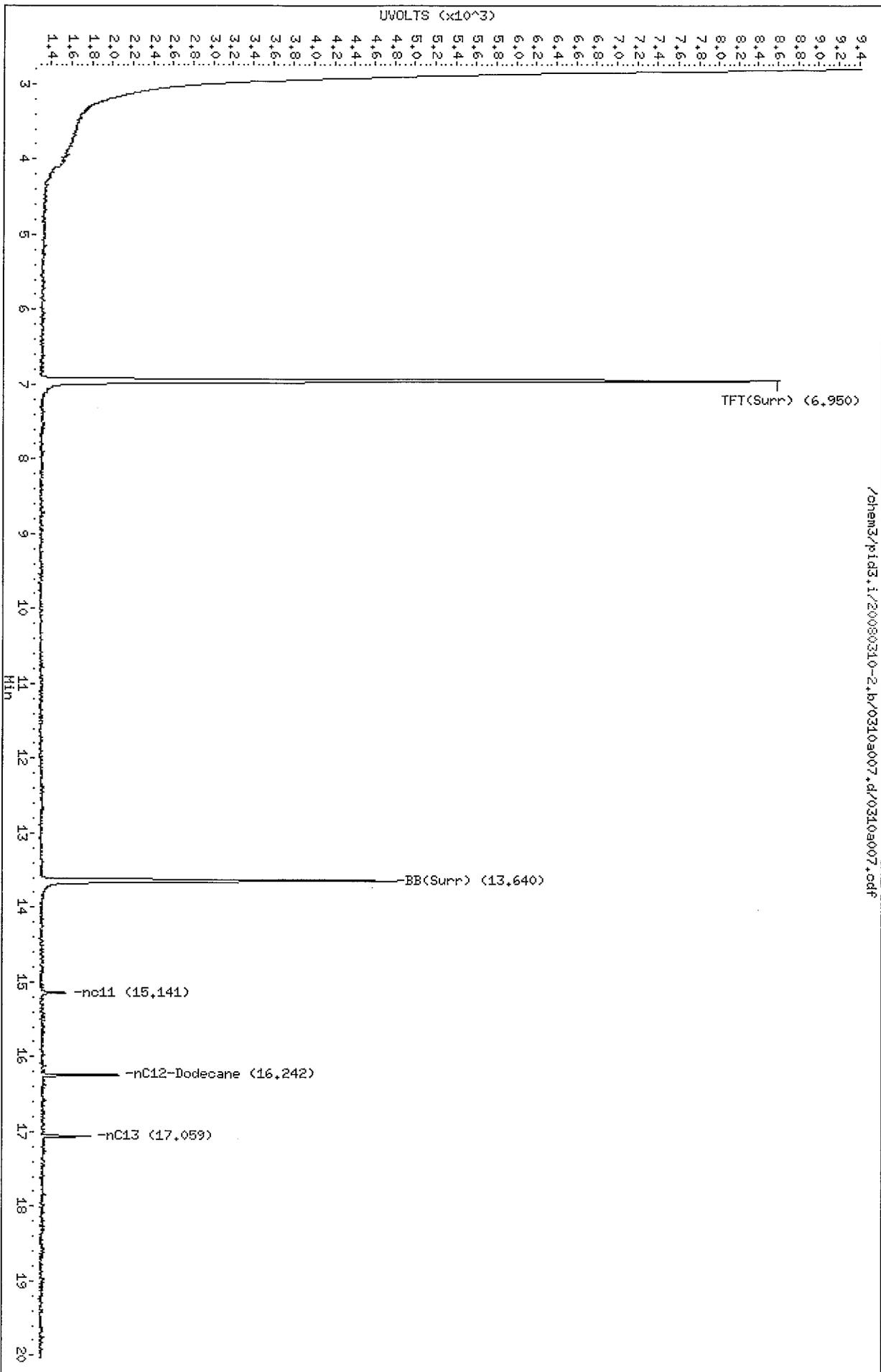
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.b/0310a007.d
Date: 10-MAR-2008 10:44
Client ID: TRIP BLANK
Sample Info: HL66H

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



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 BETX/Gas Quantitation Report

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Data file 1: /chem3/pid3.i/20080310-2.b/0310a031.d
 Data file 2: /chem3/pid3.i/20080310-1.b/0310a031.d
 Method: /chem3/pid3.i/20080310-1.b/PIDB.m
 Instrument: pid3.i
 Gas Ical Date: 17-OCT-2007
 BETX Ical Date: 17-OCT-2007

ARI ID: ML66C
 Client ID: FLY ASH
 Injection Date: 10-MAR-2008 20:37
 Matrix: SOIL
 Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.937	-0.006	622	8397	8.9	TFT(Surr)
13.631	-0.002	96	1309	2.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	0	0.000
8015B (2MP-TMB)	1	0.000
AKGas (nC6-nC10)	1	0.000
NWGas (Tol-Nap)	0	0.000

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.935	-0.006	2366	8.5	TFT(Surr)
13.629	-0.002	1231	2.6	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.k/0310a031.d

Date: 10-MAR-2008 20:37

Client ID: FLY ASH

Sample Info: HL66C

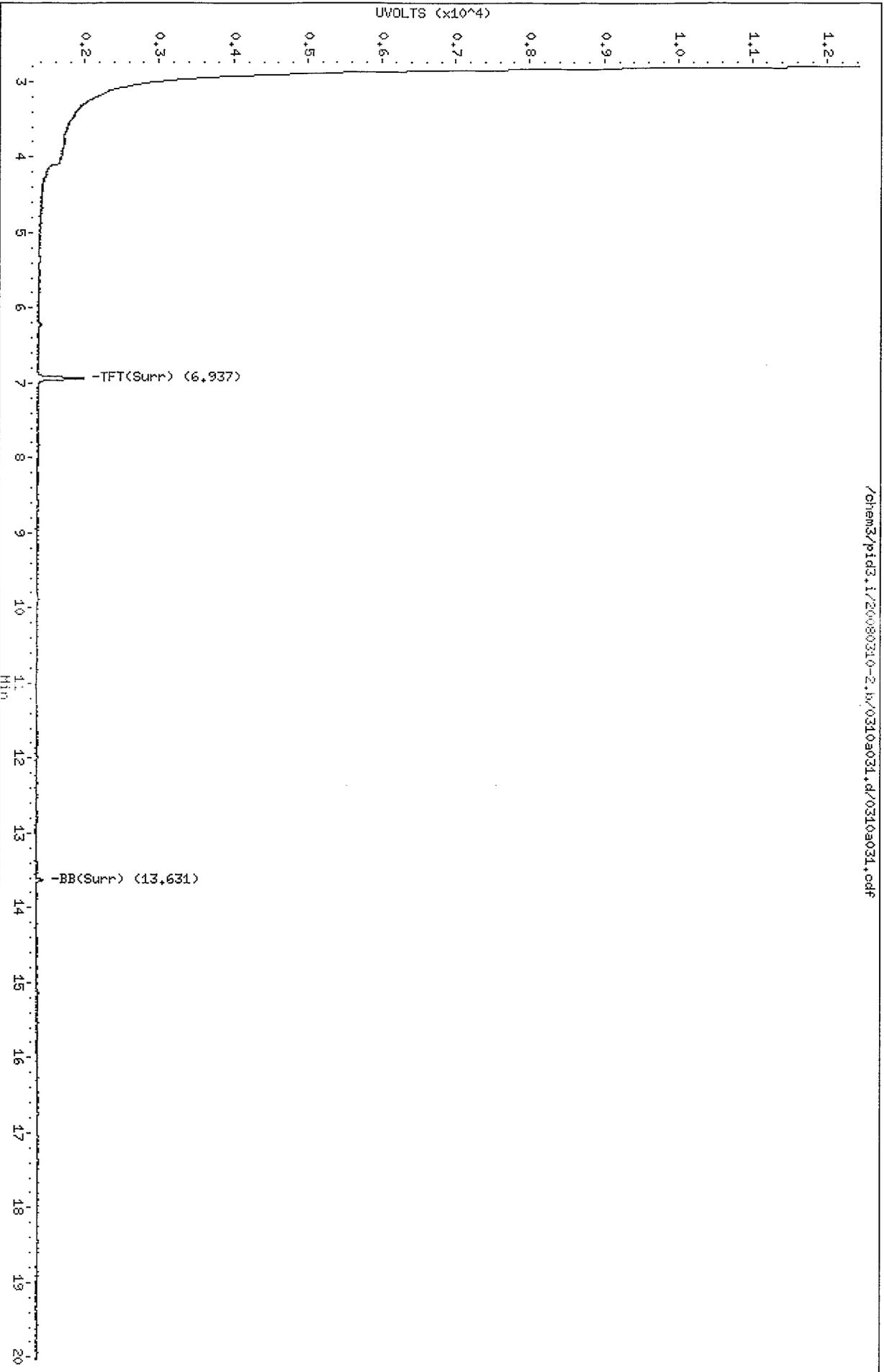
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: PC

Column diameter: 0.18

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ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: MB-031208
METHOD BLANK

Lab Sample ID: MB-031208
LIMS ID: 08-4482
Matrix: Soil
Data Release Authorized: 
Reported: 03/18/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: NA
Date Received: NA

Date Extracted: 03/12/08
Date Analyzed: 03/13/08 14:37
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	67	< 67 U
111-44-4	Bis-(2-Chloroethyl) Ether	67	< 67 U
95-57-8	2-Chlorophenol	67	< 67 U
541-73-1	1,3-Dichlorobenzene	67	< 67 U
106-46-7	1,4-Dichlorobenzene	67	< 67 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	67	< 67 U
95-48-7	2-Methylphenol	67	< 67 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	67	< 67 U
106-44-5	4-Methylphenol	67	< 67 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	67	< 67 U
98-95-3	Nitrobenzene	67	< 67 U
78-59-1	Isophorone	67	< 67 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	67	< 67 U
65-85-0	Benzoic Acid	670	< 670 U
111-91-1	bis(2-Chloroethoxy) Methane	67	< 67 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	67	< 67 U
91-20-3	Naphthalene	67	< 67 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	67	< 67 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	67	< 67 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	67	< 67 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	67	< 67 U
51-28-5	2,4-Dinitrophenol	670	< 670 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	67	< 67 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: MB-031208
METHOD BLANK

Lab Sample ID: MB-031208
LIMS ID: 08-4482
Matrix: Soil
Date Analyzed: 03/13/08 14:37

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	67	< 67 U
7005-72-3	4-Chlorophenyl-phenylether	67	< 67 U
86-73-7	Fluorene	67	< 67 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670	< 670 U
86-30-6	N-Nitrosodiphenylamine	67	< 67 U
101-55-3	4-Bromophenyl-phenylether	67	< 67 U
118-74-1	Hexachlorobenzene	67	< 67 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	67	< 67 U
86-74-8	Carbazole	67	< 67 U
120-12-7	Anthracene	67	< 67 U
84-74-2	Di-n-Butylphthalate	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
85-68-7	Butylbenzylphthalate	67	< 67 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo (a) anthracene	67	< 67 U
117-81-7	bis (2-Ethylhexyl) phthalate	67	< 67 U
218-01-9	Chrysene	67	< 67 U
117-84-0	Di-n-Octyl phthalate	67	< 67 U
205-99-2	Benzo (b) fluoranthene	67	< 67 U
207-08-9	Benzo (k) fluoranthene	67	< 67 U
50-32-8	Benzo (a) pyrene	67	< 67 U
193-39-5	Indeno (1,2,3-cd) pyrene	67	< 67 U
53-70-3	Dibenz (a,h) anthracene	67	< 67 U
191-24-2	Benzo (g,h,i) perylene	67	< 67 U
90-12-0	1-Methylnaphthalene	67	< 67 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.0%	2-Fluorobiphenyl	59.2%
d14-p-Terphenyl	66.0%	d4-1,2-Dichlorobenzene	57.6%
d5-Phenol	66.1%	2-Fluorophenol	53.9%
2,4,6-Tribromophenol	79.5%	d4-2-Chlorophenol	62.4%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: SS-2-1.5
SAMPLE

Lab Sample ID: ML66B
LIMS ID: 08-4482
Matrix: Soil
Data Release Authorized:
Reported: 03/18/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Date Extracted: 03/12/08
Date Analyzed: 03/13/08 19:15
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 7.57 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 15.9%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: SS-2-1.5
SAMPLE

Lab Sample ID: ML66B
LIMS ID: 08-4482
Matrix: Soil
Date Analyzed: 03/13/08 19:15

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo (a) anthracene	66	< 66 U
117-81-7	bis (2-Ethylhexyl) phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo (b) fluoranthene	66	< 66 U
207-08-9	Benzo (k) fluoranthene	66	< 66 U
50-32-8	Benzo (a) pyrene	66	< 66 U
193-39-5	Indeno (1,2,3-cd) pyrene	66	< 66 U
53-70-3	Dibenz (a,h) anthracene	66	< 66 U
191-24-2	Benzo (g,h,i) perylene	66	< 66 U
90-12-0	1-Methylnaphthalene	66	< 66 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	58.4%	2-Fluorobiphenyl	65.6%
d14-p-Terphenyl	66.0%	d4-1,2-Dichlorobenzene	58.4%
d5-Phenol	61.9%	2-Fluorophenol	49.9%
2,4,6-Tribromophenol	79.5%	d4-2-Chlorophenol	61.6%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: SS-2-1.5
MATRIX SPIKE

Lab Sample ID: ML66B
LIMS ID: 08-4482
Matrix: Soil
Data Release Authorized:
Reported: 03/18/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Date Extracted: 03/12/08
Date Analyzed: 03/14/08 18:03
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 7.59 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 15.9%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	---
111-44-4	Bis-(2-Chloroethyl) Ether	66	---
95-57-8	2-Chlorophenol	66	---
541-73-1	1,3-Dichlorobenzene	66	---
106-46-7	1,4-Dichlorobenzene	66	---
100-51-6	Benzyl Alcohol	330	---
95-50-1	1,2-Dichlorobenzene	66	---
95-48-7	2-Methylphenol	66	---
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	---
106-44-5	4-Methylphenol	66	---
621-64-7	N-Nitroso-Di-N-Propylamine	330	---
67-72-1	Hexachloroethane	66	---
98-95-3	Nitrobenzene	66	---
78-59-1	Isophorone	66	---
88-75-5	2-Nitrophenol	330	---
105-67-9	2,4-Dimethylphenol	66	---
65-85-0	Benzoic Acid	660	---
111-91-1	bis(2-Chloroethoxy) Methane	66	---
120-83-2	2,4-Dichlorophenol	330	---
120-82-1	1,2,4-Trichlorobenzene	66	---
91-20-3	Naphthalene	66	---
106-47-8	4-Chloroaniline	330	---
87-68-3	Hexachlorobutadiene	66	---
59-50-7	4-Chloro-3-methylphenol	330	---
91-57-6	2-Methylnaphthalene	66	---
77-47-4	Hexachlorocyclopentadiene	330	---
88-06-2	2,4,6-Trichlorophenol	330	---
95-95-4	2,4,5-Trichlorophenol	330	---
91-58-7	2-Chloronaphthalene	66	---
88-74-4	2-Nitroaniline	330	---
131-11-3	Dimethylphthalate	66	---
208-96-8	Acenaphthylene	66	---
99-09-2	3-Nitroaniline	330	---
83-32-9	Acenaphthene	66	---
51-28-5	2,4-Dinitrophenol	660	---
100-02-7	4-Nitrophenol	330	---
132-64-9	Dibenzofuran	66	---
606-20-2	2,6-Dinitrotoluene	330	---
121-14-2	2,4-Dinitrotoluene	330	---

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: SS-2-1.5
MATRIX SPIKE

Lab Sample ID: ML66B
LIMS ID: 08-4482
Matrix: Soil
Date Analyzed: 03/14/08 18:03

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	66	---
7005-72-3	4-Chlorophenyl-phenylether	66	---
86-73-7	Fluorene	66	---
100-01-6	4-Nitroaniline	330	---
534-52-1	4,6-Dinitro-2-Methylphenol	660	---
86-30-6	N-Nitrosodiphenylamine	66	---
101-55-3	4-Bromophenyl-phenylether	66	---
118-74-1	Hexachlorobenzene	66	---
87-86-5	Pentachlorophenol	330	---
85-01-8	Phenanthrene	66	---
86-74-8	Carbazole	66	---
120-12-7	Anthracene	66	---
84-74-2	Di-n-Butylphthalate	66	---
206-44-0	Fluoranthene	66	---
129-00-0	Pyrene	66	---
85-68-7	Butylbenzylphthalate	66	---
91-94-1	3,3'-Dichlorobenzidine	330	---
56-55-3	Benzo(a)anthracene	66	---
117-81-7	bis(2-Ethylhexyl)phthalate	66	---
218-01-9	Chrysene	66	---
117-84-0	Di-n-Octyl phthalate	66	---
205-99-2	Benzo(b)fluoranthene	66	---
207-08-9	Benzo(k)fluoranthene	66	---
50-32-8	Benzo(a)pyrene	66	---
193-39-5	Indeno(1,2,3-cd)pyrene	66	---
53-70-3	Dibenz(a,h)anthracene	66	---
191-24-2	Benzo(g,h,i)perylene	66	---
90-12-0	1-Methylnaphthalene	66	---

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.0%	2-Fluorobiphenyl	70.0%
d14-p-Terphenyl	81.2%	d4-1,2-Dichlorobenzene	62.0%
d5-Phenol	68.5%	2-Fluorophenol	56.5%
2,4,6-Tribromophenol	77.1%	d4-2-Chlorophenol	67.5%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: SS-2-1.5
MATRIX SPIKE DUPLICATE

Lab Sample ID: ML66B
LIMS ID: 08-4482
Matrix: Soil
Data Release Authorized:
Reported: 03/18/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Date Extracted: 03/12/08
Date Analyzed: 03/14/08 18:35
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 7.57 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 15.9%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	---
111-44-4	Bis-(2-Chloroethyl) Ether	66	---
95-57-8	2-Chlorophenol	66	---
541-73-1	1,3-Dichlorobenzene	66	---
106-46-7	1,4-Dichlorobenzene	66	---
100-51-6	Benzyl Alcohol	330	---
95-50-1	1,2-Dichlorobenzene	66	---
95-48-7	2-Methylphenol	66	---
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	---
106-44-5	4-Methylphenol	66	---
621-64-7	N-Nitroso-Di-N-Propylamine	330	---
67-72-1	Hexachloroethane	66	---
98-95-3	Nitrobenzene	66	---
78-59-1	Isophorone	66	---
88-75-5	2-Nitrophenol	330	---
105-67-9	2,4-Dimethylphenol	66	---
65-85-0	Benzoic Acid	660	---
111-91-1	bis(2-Chloroethoxy) Methane	66	---
120-83-2	2,4-Dichlorophenol	330	---
120-82-1	1,2,4-Trichlorobenzene	66	---
91-20-3	Naphthalene	66	---
106-47-8	4-Chloroaniline	330	---
87-68-3	Hexachlorobutadiene	66	---
59-50-7	4-Chloro-3-methylphenol	330	---
91-57-6	2-Methylnaphthalene	66	---
77-47-4	Hexachlorocyclopentadiene	330	---
88-06-2	2,4,6-Trichlorophenol	330	---
95-95-4	2,4,5-Trichlorophenol	330	---
91-58-7	2-Chloronaphthalene	66	---
88-74-4	2-Nitroaniline	330	---
131-11-3	Dimethylphthalate	66	---
208-96-8	Acenaphthylene	66	---
99-09-2	3-Nitroaniline	330	---
83-32-9	Acenaphthene	66	---
51-28-5	2,4-Dinitrophenol	660	---
100-02-7	4-Nitrophenol	330	---
132-64-9	Dibenzofuran	66	---
606-20-2	2,6-Dinitrotoluene	330	---
121-14-2	2,4-Dinitrotoluene	330	---

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: SS-2-1.5
MATRIX SPIKE DUPLICATE

Lab Sample ID: ML66B
LIMS ID: 08-4482
Matrix: Soil
Date Analyzed: 03/14/08 18:35

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	66	---
7005-72-3	4-Chlorophenyl-phenylether	66	---
86-73-7	Fluorene	66	---
100-01-6	4-Nitroaniline	330	---
534-52-1	4,6-Dinitro-2-Methylphenol	660	---
86-30-6	N-Nitrosodiphenylamine	66	---
101-55-3	4-Bromophenyl-phenylether	66	---
118-74-1	Hexachlorobenzene	66	---
87-86-5	Pentachlorophenol	330	---
85-01-8	Phenanthrene	66	---
86-74-8	Carbazole	66	---
120-12-7	Anthracene	66	---
84-74-2	Di-n-Butylphthalate	66	---
206-44-0	Fluoranthene	66	---
129-00-0	Pyrene	66	---
85-68-7	Butylbenzylphthalate	66	---
91-94-1	3,3'-Dichlorobenzidine	330	---
56-55-3	Benzo(a)anthracene	66	---
117-81-7	bis(2-Ethylhexyl)phthalate	66	---
218-01-9	Chrysene	66	---
117-84-0	Di-n-Octyl phthalate	66	---
205-99-2	Benzo(b)fluoranthene	66	---
207-08-9	Benzo(k)fluoranthene	66	---
50-32-8	Benzo(a)pyrene	66	---
193-39-5	Indeno(1,2,3-cd)pyrene	66	---
53-70-3	Dibenz(a,h)anthracene	66	---
191-24-2	Benzo(g,h,i)perylene	66	---
90-12-0	1-Methylnaphthalene	66	---

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	59.2%	2-Fluorobiphenyl	63.6%
d14-p-Terphenyl	76.0%	d4-1,2-Dichlorobenzene	57.6%
d5-Phenol	62.9%	2-Fluorophenol	52.5%
2,4,6-Tribromophenol	67.5%	d4-2-Chlorophenol	61.6%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: SS-2-1.5
MS/MSD

Lab Sample ID: ML66B
LIMS ID: 08-4482
Matrix: Soil
Data Release Authorized:
Reported: 03/18/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Date Extracted MS/MSD: 03/12/08
Date Analyzed MS: 03/14/08 18:03
MSD: 03/14/08 18:35
Instrument/Analyst MS: NT6/LJR
MSD: NT6/LJR
GPC Cleanup: NO

Sample Amount MS: 7.59 g-dry-wt
MSD: 7.57 g-dry-wt
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Percent Moisture: 15.9 %

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	< 66.1	1260	1650	76.4%	1220	1650	73.9%	3.2%
Bis-(2-Chloroethyl) Ether	< 66.1	1050	1650	63.6%	1020	1650	61.8%	2.9%
2-Chlorophenol	< 66.1	1070	1650	64.8%	1010	1650	61.2%	5.8%
1,3-Dichlorobenzene	< 66.1	972	1650	58.9%	925	1650	56.1%	5.0%
1,4-Dichlorobenzene	< 66.1	948	1650	57.5%	913	1650	55.3%	3.8%
Benzyl Alcohol	< 330	989	3290	30.1%	343	3300	10.4%	97.0%
1,2-Dichlorobenzene	< 66.1	967	1650	58.6%	930	1650	56.4%	3.9%
2-Methylphenol	< 66.1	1100	1650	66.7%	997	1650	60.4%	9.8%
2,2'-Oxybis(1-Chloropropane	< 66.1	1000	1650	60.6%	966	1650	58.5%	3.5%
4-Methylphenol	< 66.1	2180	3290	66.3%	2020	3300	61.2%	7.6%
N-Nitroso-Di-N-Propylamine	< 330	1060	1650	64.2%	999	1650	60.5%	5.9%
Hexachloroethane	< 66.1	932	1650	56.5%	893	1650	54.1%	4.3%
Nitrobenzene	< 66.1	1080	1650	65.5%	1030	1650	62.4%	4.7%
Isophorone	< 66.1	1150	1650	69.7%	1070	1650	64.8%	7.2%
2-Nitrophenol	< 330	1040	1650	63.0%	991	1650	60.1%	4.8%
2,4-Dimethylphenol	< 66.1	1120	1650	67.9%	982	1650	59.5%	13.1%
Benzoic Acid	< 66.1	3240	4940	65.6%	2830	4950	57.2%	13.5%
bis(2-Chloroethoxy) Methane	< 66.1	1050	1650	63.6%	982	1650	59.5%	6.7%
2,4-Dichlorophenol	< 330	1120	1650	67.9%	1020	1650	61.8%	9.3%
1,2,4-Trichlorobenzene	< 66.1	994	1650	60.2%	945	1650	57.3%	5.1%
Naphthalene	< 66.1	1020	1650	61.8%	946	1650	57.3%	7.5%
4-Chloroaniline	< 330	1190	3950	30.1%	1050	3960	26.5%	12.5%
Hexachlorobutadiene	< 66.1	987	1650	59.8%	922	1650	55.9%	6.8%
4-Chloro-3-methylphenol	< 330	1190	1650	72.1%	1090	1650	66.1%	8.8%
2-Methylnaphthalene	< 66.1	1090	1650	66.1%	1010	1650	61.2%	7.6%
Hexachlorocyclopentadiene	< 330	3210	4940	65.0%	2960	4950	59.8%	8.1%
2,4,6-Trichlorophenol	< 330	1180	1650	71.5%	1060	1650	64.2%	10.7%
2,4,5-Trichlorophenol	< 330	1220	1650	73.9%	1100	1650	66.7%	10.3%
2-Chloronaphthalene	< 66.1	1090	1650	66.1%	1020	1650	61.8%	6.6%
2-Nitroaniline	< 330	1220	1650	73.9%	1140	1650	69.1%	6.8%
Dimethylphthalate	< 66.1	1220	1650	73.9%	1140	1650	69.1%	6.8%
Acenaphthylene	< 66.1	1190	1650	72.1%	1110	1650	67.3%	7.0%
3-Nitroaniline	< 330	2110	4220	50.0%	1960	4230	46.3%	7.4%
Acenaphthene	< 66.1	1120	1650	67.9%	1020	1650	61.8%	9.3%
2,4-Dinitrophenol	< 66.1	2590	4940	52.4%	1960	4950	39.6%	27.7%
4-Nitrophenol	< 330	765	1650	46.4%	437	1650	26.5%	54.6%
Dibenzofuran	< 66.1	1190	1650	72.1%	1100	1650	66.7%	7.9%
2,6-Dinitrotoluene	< 330	1230	1650	74.5%	1120	1650	67.9%	9.4%
2,4-Dinitrotoluene	< 330	1310	1650	79.4%	1220	1650	73.9%	7.1%
Diethylphthalate	< 66.1	1260	1650	76.4%	1170	1650	70.9%	7.4%
4-Chlorophenyl-phenylether	< 66.1	1190	1650	72.1%	1120	1650	67.9%	6.1%
Fluorene	< 66.1	1200	1650	72.7%	1090	1650	66.1%	9.6%
4-Nitroaniline	< 330	881	1650	53.4%	856	1650	51.9%	2.9%
4,6-Dinitro-2-Methylphenol	< 66.1	3160	4940	64.0%	2810	4950	56.8%	11.7%
N-Nitrosodiphenylamine	< 66.1	1560	1650	94.5%	1430	1650	86.7%	8.7%

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Semivolatiles by SW8270D GC/MS
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Sample ID: SS-2-1.5
MS/MSD

Lab Sample ID: ML66B
LIMS ID: 08-4482
Matrix: Soil
Date Analyzed MS: 03/14/08 18:03
MSD: 03/14/08 18:35

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
4-Bromophenyl-phenylether	< 66.1	1200	1650	72.7%	1100	1650	66.7%	8.7%
Hexachlorobenzene	< 66.1	1190	1650	72.1%	1110	1650	67.3%	7.0%
Pentachlorophenol	< 330	1220	1650	73.9%	1070	1650	64.8%	13.1%
Phenanthrene	< 66.1	1490	1650	90.3%	1120	1650	67.9%	28.4%
Carbazole	< 66.1	1300	1650	78.8%	1200	1650	72.7%	8.0%
Anthracene	< 66.1	1240	1650	75.2%	1110	1650	67.3%	11.1%
Di-n-Butylphthalate	< 66.1	1360	1650	82.4%	1280	1650	77.6%	6.1%
Fluoranthene	< 66.1	1760	1650	107%	1250	1650	75.8%	33.9%
Pyrene	< 66.1	1670	1650	101%	1200	1650	72.7%	32.8%
Butylbenzylphthalate	< 66.1	1290	1650	78.2%	1230	1650	74.5%	4.8%
3,3'-Dichlorobenzidine	< 330	946	4220	22.4%	804	4230	19.0%	16.2%
Benzo(a)anthracene	< 66.1	1340	1650	81.2%	1150	1650	69.7%	15.3%
bis(2-Ethylhexyl)phthalate	< 66.1	1320	1650	80.0%	1250	1650	75.8%	5.4%
Chrysene	< 66.1	1430	1650	86.7%	1180	1650	71.5%	19.2%
Di-n-Octyl phthalate	< 66.1	1250	1650	75.8%	1190	1650	72.1%	4.9%
Benzo(b)fluoranthene	< 66.1	1470	1650	89.1%	1220	1650	73.9%	18.6%
Benzo(k)fluoranthene	< 66.1	1360	1650	82.4%	1230	1650	74.5%	10.0%
Benzo(a)pyrene	< 66.1	1410	1650	85.5%	1160	1650	70.3%	19.5%
Indeno(1,2,3-cd)pyrene	< 66.1	1380	1650	83.6%	1140	1650	69.1%	19.0%
Dibenz(a,h)anthracene	< 66.1	1280	1650	77.6%	1200	1650	72.7%	6.5%
Benzo(g,h,i)perylene	< 66.1	1290	1650	78.2%	1120	1650	67.9%	14.1%
1-Methylnaphthalene	< 66.1	1080	1650	65.5%	1010	1650	61.2%	6.7%

Results reported in $\mu\text{g}/\text{kg}$
RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: FLY ASH
SAMPLE

Lab Sample ID: ML66C
LIMS ID: 08-4483
Matrix: Soil
Data Release Authorized:
Reported: 03/18/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Date Extracted: 03/12/08
Date Analyzed: 03/13/08 20:59
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 7.54 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 63.3%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	130
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	7,400 E
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	280
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	2,200
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	78
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	200
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: FLY ASH
SAMPLE

Lab Sample ID: ML66C
LIMS ID: 08-4483
Matrix: Soil
Date Analyzed: 03/13/08 20:59

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	430
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	150
129-00-0	Pyrene	66	110
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo (a) anthracene	66	< 66 U
117-81-7	bis (2-Ethylhexyl) phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo (b) fluoranthene	66	< 66 U
207-08-9	Benzo (k) fluoranthene	66	< 66 U
50-32-8	Benzo (a) pyrene	66	< 66 U
193-39-5	Indeno (1,2,3-cd) pyrene	66	< 66 U
53-70-3	Dibenz (a,h) anthracene	66	< 66 U
191-24-2	Benzo (g,h,i) perylene	66	< 66 U
90-12-0	1-Methylnaphthalene	66	400

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	31.4%	2-Fluorobiphenyl	30.1%
d14-p-Terphenyl	0.0%	d4-1,2-Dichlorobenzene	46.0%
d5-Phenol	30.9%	2-Fluorophenol	16.9%
2,4,6-Tribromophenol	10.4%	d4-2-Chlorophenol	20.1%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: FLY ASH
DILUTION

Lab Sample ID: ML66C
LIMS ID: 08-4483
Matrix: Soil
Data Release Authorized:
Reported: 03/18/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Date Extracted: 03/12/08
Date Analyzed: 03/14/08 17:31
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 7.54 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 3.00
Percent Moisture: 63.3%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	200	< 200 U
111-44-4	Bis-(2-Chloroethyl) Ether	200	< 200 U
95-57-8	2-Chlorophenol	200	< 200 U
541-73-1	1,3-Dichlorobenzene	200	< 200 U
106-46-7	1,4-Dichlorobenzene	200	< 200 U
100-51-6	Benzyl Alcohol	1,000	< 1,000 U
95-50-1	1,2-Dichlorobenzene	200	< 200 U
95-48-7	2-Methylphenol	200	< 200 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	200	< 200 U
106-44-5	4-Methylphenol	200	< 200 U
621-64-7	N-Nitroso-Di-N-Propylamine	1,000	< 1,000 U
67-72-1	Hexachloroethane	200	< 200 U
98-95-3	Nitrobenzene	200	< 200 U
78-59-1	Isophorone	200	< 200 U
88-75-5	2-Nitrophenol	1,000	< 1,000 U
105-67-9	2,4-Dimethylphenol	200	< 200 U
65-85-0	Benzoic Acid	2,000	< 2,000 U
111-91-1	bis(2-Chloroethoxy) Methane	200	< 200 U
120-83-2	2,4-Dichlorophenol	1,000	< 1,000 U
120-82-1	1,2,4-Trichlorobenzene	200	< 200 U
91-20-3	Naphthalene	200	8,700
106-47-8	4-Chloroaniline	1,000	< 1,000 U
87-68-3	Hexachlorobutadiene	200	< 200 U
59-50-7	4-Chloro-3-methylphenol	1,000	< 1,000 U
91-57-6	2-Methylnaphthalene	200	260
77-47-4	Hexachlorocyclopentadiene	1,000	< 1,000 U
88-06-2	2,4,6-Trichlorophenol	1,000	< 1,000 U
95-95-4	2,4,5-Trichlorophenol	1,000	< 1,000 U
91-58-7	2-Chloronaphthalene	200	< 200 U
88-74-4	2-Nitroaniline	1,000	< 1,000 U
131-11-3	Dimethylphthalate	200	< 200 U
208-96-8	Acenaphthylene	200	2,300
99-09-2	3-Nitroaniline	1,000	< 1,000 U
83-32-9	Acenaphthene	200	< 200 U
51-28-5	2,4-Dinitrophenol	2,000	< 2,000 U
100-02-7	4-Nitrophenol	1,000	< 1,000 U
132-64-9	Dibenzofuran	200	< 200 U
606-20-2	2,6-Dinitrotoluene	1,000	< 1,000 U
121-14-2	2,4-Dinitrotoluene	1,000	< 1,000 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: FLY ASH
DILUTION

Lab Sample ID: ML66C
LIMS ID: 08-4483
Matrix: Soil
Date Analyzed: 03/14/08 17:31

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	200	< 200 U
7005-72-3	4-Chlorophenyl-phenylether	200	< 200 U
86-73-7	Fluorene	200	< 200 U
100-01-6	4-Nitroaniline	1,000	< 1,000 U
534-52-1	4,6-Dinitro-2-Methylphenol	2,000	< 2,000 U
86-30-6	N-Nitrosodiphenylamine	200	< 200 U
101-55-3	4-Bromophenyl-phenylether	200	< 200 U
118-74-1	Hexachlorobenzene	200	< 200 U
87-86-5	Pentachlorophenol	1,000	< 1,000 U
85-01-8	Phenanthrene	200	420
86-74-8	Carbazole	200	< 200 U
120-12-7	Anthracene	200	< 200 U
84-74-2	Di-n-Butylphthalate	200	< 200 U
206-44-0	Fluoranthene	200	< 200 U
129-00-0	Pyrene	200	< 200 U
85-68-7	Butylbenzylphthalate	200	< 200 U
91-94-1	3,3'-Dichlorobenzidine	1,000	< 1,000 U
56-55-3	Benzo (a) anthracene	200	< 200 U
117-81-7	bis (2-Ethylhexyl) phthalate	200	< 200 U
218-01-9	Chrysene	200	< 200 U
117-84-0	Di-n-Octyl phthalate	200	< 200 U
205-99-2	Benzo (b) fluoranthene	200	< 200 U
207-08-9	Benzo (k) fluoranthene	200	< 200 U
50-32-8	Benzo (a) pyrene	200	< 200 U
193-39-5	Indeno (1,2,3-cd) pyrene	200	< 200 U
53-70-3	Dibenz (a,h) anthracene	200	< 200 U
191-24-2	Benzo (g,h,i) perylene	200	< 200 U
90-12-0	1-Methylnaphthalene	200	380

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	31.3%	2-Fluorobiphenyl	31.0%
d14-p-Terphenyl	0.0%	d4-1,2-Dichlorobenzene	43.0%
d5-Phenol	26.2%	2-Fluorophenol	17.3%
2,4,6-Tribromophenol	7.1%	d4-2-Chlorophenol	18.0%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: LCS-031208
LAB CONTROL

Lab Sample ID: LCS-031208
LIMS ID: 08-4482
Matrix: Soil
Data Release Authorized:
Reported: 03/18/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Date Extracted: 03/12/08
Date Analyzed: 03/13/08 15:12
Instrument/Analyst: NT6/LJR
GPC Cleanup: NO

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Phenol	1230	1670	73.7%
Bis-(2-Chloroethyl) Ether	1040	1670	62.3%
2-Chlorophenol	1060	1670	63.5%
1,3-Dichlorobenzene	963	1670	57.7%
1,4-Dichlorobenzene	965	1670	57.8%
Benzyl Alcohol	1530	3330	45.9%
1,2-Dichlorobenzene	1010	1670	60.5%
2-Methylphenol	1150	1670	68.9%
2,2'-Oxybis(1-Chloropropane)	1120	1670	67.1%
4-Methylphenol	2380	3330	71.5%
N-Nitroso-Di-N-Propylamine	1110	1670	66.5%
Hexachloroethane	983	1670	58.9%
Nitrobenzene	1080	1670	64.7%
Isophorone	1180	1670	70.7%
2-Nitrophenol	1050	1670	62.9%
2,4-Dimethylphenol	1070	1670	64.1%
Benzoic Acid	4030	5000	80.6%
bis(2-Chloroethoxy) Methane	1090	1670	65.3%
2,4-Dichlorophenol	1140	1670	68.3%
1,2,4-Trichlorobenzene	999	1670	59.8%
Naphthalene	1010	1670	60.5%
4-Chloroaniline	2250	4000	56.2%
Hexachlorobutadiene	995	1670	59.6%
4-Chloro-3-methylphenol	1220	1670	73.1%
2-Methylnaphthalene	1130	1670	67.7%
Hexachlorocyclopentadiene	3020	5000	60.4%
2,4,6-Trichlorophenol	1200	1670	71.9%
2,4,5-Trichlorophenol	1130	1670	67.7%
2-Chloronaphthalene	1020	1670	61.1%
2-Nitroaniline	1220	1670	73.1%
Dimethylphthalate	1150	1670	68.9%
Acenaphthylene	1130	1670	67.7%
3-Nitroaniline	2930	4270	68.6%
Acenaphthene	1020	1670	61.1%
2,4-Dinitrophenol	3970	5000	79.4%
4-Nitrophenol	929	1670	55.6%
Dibenzofuran	1130	1670	67.7%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: LCS-031208
LAB CONTROL

Lab Sample ID: LCS-031208
LIMS ID: 08-4482
Matrix: Soil
Date Analyzed: 03/13/08 15:12

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

Analyte	Lab Control	Spike Added	Recovery
2,6-Dinitrotoluene	1170	1670	70.1%
2,4-Dinitrotoluene	1260	1670	75.4%
Diethylphthalate	1200	1670	71.9%
4-Chlorophenyl-phenylether	1160	1670	69.5%
Fluorene	1170	1670	70.1%
4-Nitroaniline	1170	1670	70.1%
4,6-Dinitro-2-Methylphenol	3590	5000	71.8%
N-Nitrosodiphenylamine	1440	1670	86.2%
4-Bromophenyl-phenylether	1140	1670	68.3%
Hexachlorobenzene	1160	1670	69.5%
Pentachlorophenol	1380	1670	82.6%
Phenanthrene	1160	1670	69.5%
Carbazole	1320	1670	79.0%
Anthracene	1180	1670	70.7%
Di-n-Butylphthalate	1290	1670	77.2%
Fluoranthene	1390	1670	83.2%
Pyrene	1070	1670	64.1%
Butylbenzylphthalate	1140	1670	68.3%
3,3'-Dichlorobenzidine	2390	4270	56.0%
Benzo (a) anthracene	1160	1670	69.5%
bis (2-Ethylhexyl) phthalate	1390	1670	83.2%
Chrysene	1190	1670	71.3%
Di-n-Octyl phthalate	1220	1670	73.1%
Benzo (b) fluoranthene	1260	1670	75.4%
Benzo (k) fluoranthene	1400	1670	83.8%
Benzo (a) pyrene	1260	1670	75.4%
Indeno (1,2,3-cd) pyrene	865	1670	51.8%
Dibenz (a,h) anthracene	1060	1670	63.5%
Benzo (g,h,i) perylene	957	1670	57.3%
1-Methylnaphthalene	1080	1670	64.7%

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.0%
2-Fluorobiphenyl	64.0%
d14-p-Terphenyl	70.4%
d4-1,2-Dichlorobenzene	60.0%
d5-Phenol	73.3%
2-Fluorophenol	62.1%
2,4,6-Tribromophenol	85.9%
d4-2-Chlorophenol	66.1%

Results reported in $\mu\text{g}/\text{kg}$

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Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: MB-031708
METHOD BLANK

Lab Sample ID: MB-031708
LIMS ID: 08-4481
Matrix: Soil
Data Release Authorized: 
Reported: 03/24/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: NA
Date Received: NA

Date Extracted: 03/17/08
Date Analyzed: 03/18/08 20:13
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	67	< 67 U
111-44-4	Bis-(2-Chloroethyl) Ether	67	< 67 U
95-57-8	2-Chlorophenol	67	< 67 U
541-73-1	1,3-Dichlorobenzene	67	< 67 U
106-46-7	1,4-Dichlorobenzene	67	< 67 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	67	< 67 U
95-48-7	2-Methylphenol	67	< 67 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	67	< 67 U
106-44-5	4-Methylphenol	67	< 67 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	67	< 67 U
98-95-3	Nitrobenzene	67	< 67 U
78-59-1	Isophorone	67	< 67 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	67	< 67 U
65-85-0	Benzoic Acid	670	< 670 U
111-91-1	bis(2-Chloroethoxy) Methane	67	< 67 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	67	< 67 U
91-20-3	Naphthalene	67	< 67 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	67	< 67 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	67	< 67 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	67	< 67 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	67	< 67 U
51-28-5	2,4-Dinitrophenol	670	< 670 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	67	< 67 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U

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Semivolatiles by SW8270D GC/MS
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Sample ID: MB-031708
METHOD BLANK

Lab Sample ID: MB-031708
LIMS ID: 08-4481
Matrix: Soil
Date Analyzed: 03/18/08 20:13

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	67	< 67 U
7005-72-3	4-Chlorophenyl-phenylether	67	< 67 U
86-73-7	Fluorene	67	< 67 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670	< 670 U
86-30-6	N-Nitrosodiphenylamine	67	< 67 U
101-55-3	4-Bromophenyl-phenylether	67	< 67 U
118-74-1	Hexachlorobenzene	67	< 67 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	67	< 67 U
86-74-8	Carbazole	67	< 67 U
120-12-7	Anthracene	67	< 67 U
84-74-2	Di-n-Butylphthalate	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
85-68-7	Butylbenzylphthalate	67	< 67 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo (a) anthracene	67	< 67 U
117-81-7	bis (2-Ethylhexyl) phthalate	67	< 67 U
218-01-9	Chrysene	67	< 67 U
117-84-0	Di-n-Octyl phthalate	67	< 67 U
205-99-2	Benzo (b) fluoranthene	67	< 67 U
207-08-9	Benzo (k) fluoranthene	67	< 67 U
50-32-8	Benzo (a) pyrene	67	< 67 U
193-39-5	Indeno (1,2,3-cd) pyrene	67	< 67 U
53-70-3	Dibenz (a,h) anthracene	67	< 67 U
191-24-2	Benzo (g,h,i) perylene	67	< 67 U
90-12-0	1-Methylnaphthalene	67	< 67 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	63.2%	2-Fluorobiphenyl	66.0%
d14-p-Terphenyl	84.8%	d4-1,2-Dichlorobenzene	63.6%
d5-Phenol	64.3%	2-Fluorophenol	14.8%
2,4,6-Tribromophenol	81.3%	d4-2-Chlorophenol	65.6%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: B-3-14
SAMPLE

Lab Sample ID: ML66A
LIMS ID: 08-4481
Matrix: Soil
Data Release Authorized: *AB*
Reported: 03/24/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Date Extracted: 03/17/08
Date Analyzed: 03/18/08 21:59
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.92 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 7.1%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	63	< 63 U
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U

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Semivolatiles by SW8270D GC/MS
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Sample ID: B-3-14
SAMPLE

Lab Sample ID: ML66A
LIMS ID: 08-4481
Matrix: Soil
Date Analyzed: 03/18/08 21:59

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
205-99-2	Benzo(b)fluoranthene	63	< 63 U
207-08-9	Benzo(k)fluoranthene	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U
90-12-0	1-Methylnaphthalene	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	58.4%	2-Fluorobiphenyl	66.8%
d14-p-Terphenyl	80.0%	d4-1,2-Dichlorobenzene	59.2%
d5-Phenol	57.6%	2-Fluorophenol	16.9%
2,4,6-Tribromophenol	80.0%	d4-2-Chlorophenol	60.0%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: B-3-8.5
SAMPLE

Lab Sample ID: ML66D
LIMS ID: 08-4484
Matrix: Soil
Data Release Authorized: 
Reported: 03/24/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Date Extracted: 03/17/08
Date Analyzed: 03/18/08 22:34
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 2.86 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 4.7%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	180	< 180 U
111-44-4	Bis-(2-Chloroethyl) Ether	180	< 180 U
95-57-8	2-Chlorophenol	180	< 180 U
541-73-1	1,3-Dichlorobenzene	180	< 180 U
106-46-7	1,4-Dichlorobenzene	180	< 180 U
100-51-6	Benzyl Alcohol	870	< 870 U
95-50-1	1,2-Dichlorobenzene	180	< 180 U
95-48-7	2-Methylphenol	180	< 180 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	180	< 180 U
106-44-5	4-Methylphenol	180	< 180 U
621-64-7	N-Nitroso-Di-N-Propylamine	870	< 870 U
67-72-1	Hexachloroethane	180	< 180 U
98-95-3	Nitrobenzene	180	< 180 U
78-59-1	Isophorone	180	< 180 U
88-75-5	2-Nitrophenol	870	< 870 U
105-67-9	2,4-Dimethylphenol	180	< 180 U
65-85-0	Benzoic Acid	1,800	< 1,800 U
111-91-1	bis(2-Chloroethoxy) Methane	180	< 180 U
120-83-2	2,4-Dichlorophenol	870	< 870 U
120-82-1	1,2,4-Trichlorobenzene	180	< 180 U
91-20-3	Naphthalene	180	< 180 U
106-47-8	4-Chloroaniline	870	< 870 U
87-68-3	Hexachlorobutadiene	180	< 180 U
59-50-7	4-Chloro-3-methylphenol	870	< 870 U
91-57-6	2-Methylnaphthalene	180	< 180 U
77-47-4	Hexachlorocyclopentadiene	870	< 870 U
88-06-2	2,4,6-Trichlorophenol	870	< 870 U
95-95-4	2,4,5-Trichlorophenol	870	< 870 U
91-58-7	2-Chloronaphthalene	180	< 180 U
88-74-4	2-Nitroaniline	870	< 870 U
131-11-3	Dimethylphthalate	180	< 180 U
208-96-8	Acenaphthylene	180	< 180 U
99-09-2	3-Nitroaniline	870	< 870 U
83-32-9	Acenaphthene	180	< 180 U
51-28-5	2,4-Dinitrophenol	1,800	< 1,800 U
100-02-7	4-Nitrophenol	870	< 870 U
132-64-9	Dibenzofuran	180	< 180 U
606-20-2	2,6-Dinitrotoluene	870	< 870 U
121-14-2	2,4-Dinitrotoluene	870	< 870 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: B-3-8.5
SAMPLE

Lab Sample ID: ML66D
LIMS ID: 08-4484
Matrix: Soil
Date Analyzed: 03/18/08 22:34

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	180	< 180 U
7005-72-3	4-Chlorophenyl-phenylether	180	< 180 U
86-73-7	Fluorene	180	< 180 U
100-01-6	4-Nitroaniline	870	< 870 U
534-52-1	4,6-Dinitro-2-Methylphenol	1,800	< 1,800 U
86-30-6	N-Nitrosodiphenylamine	180	< 180 U
101-55-3	4-Bromophenyl-phenylether	180	< 180 U
118-74-1	Hexachlorobenzene	180	< 180 U
87-86-5	Pentachlorophenol	870	< 870 U
85-01-8	Phenanthrene	180	< 180 U
86-74-8	Carbazole	180	< 180 U
120-12-7	Anthracene	180	< 180 U
84-74-2	Di-n-Butylphthalate	180	< 180 U
206-44-0	Fluoranthene	180	< 180 U
129-00-0	Pyrene	180	< 180 U
85-68-7	Butylbenzylphthalate	180	< 180 U
91-94-1	3,3'-Dichlorobenzidine	870	< 870 U
56-55-3	Benzo(a)anthracene	180	< 180 U
117-81-7	bis(2-Ethylhexyl)phthalate	180	< 180 U
218-01-9	Chrysene	180	< 180 U
117-84-0	Di-n-Octyl phthalate	180	< 180 U
205-99-2	Benzo(b)fluoranthene	180	< 180 U
207-08-9	Benzo(k)fluoranthene	180	< 180 U
50-32-8	Benzo(a)pyrene	180	< 180 U
193-39-5	Indeno(1,2,3-cd)pyrene	180	< 180 U
53-70-3	Dibenz(a,h)anthracene	180	< 180 U
191-24-2	Benzo(g,h,i)perylene	180	< 180 U
90-12-0	1-Methylnaphthalene	180	< 180 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	70.4%	2-Fluorobiphenyl	75.6%
d14-p-Terphenyl	123%	d4-1,2-Dichlorobenzene	69.2%
d5-Phenol	68.3%	2-Fluorophenol	19.0%
2,4,6-Tribromophenol	101%	d4-2-Chlorophenol	68.8%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: B-3-8.5
DILUTION

Lab Sample ID: ML66D
LIMS ID: 08-4484
Matrix: Soil
Data Release Authorized: 
Reported: 03/24/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Date Extracted: 03/17/08
Date Analyzed: 03/21/08 16:44
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 2.86 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 5.00
Percent Moisture: 4.7%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	870	< 870 U
111-44-4	Bis-(2-Chloroethyl) Ether	870	< 870 U
95-57-8	2-Chlorophenol	870	< 870 U
541-73-1	1,3-Dichlorobenzene	870	< 870 U
106-46-7	1,4-Dichlorobenzene	870	< 870 U
100-51-6	Benzyl Alcohol	4,400	< 4,400 U
95-50-1	1,2-Dichlorobenzene	870	< 870 U
95-48-7	2-Methylphenol	870	< 870 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	870	< 870 U
106-44-5	4-Methylphenol	870	< 870 U
621-64-7	N-Nitroso-Di-N-Propylamine	4,400	< 4,400 U
67-72-1	Hexachloroethane	870	< 870 U
98-95-3	Nitrobenzene	870	< 870 U
78-59-1	Isophorone	870	< 870 U
88-75-5	2-Nitrophenol	4,400	< 4,400 U
105-67-9	2,4-Dimethylphenol	870	< 870 U
65-85-0	Benzoic Acid	8,700	< 8,700 U
111-91-1	bis(2-Chloroethoxy) Methane	870	< 870 U
120-83-2	2,4-Dichlorophenol	4,400	< 4,400 U
120-82-1	1,2,4-Trichlorobenzene	870	< 870 U
91-20-3	Naphthalene	870	< 870 U
106-47-8	4-Chloroaniline	4,400	< 4,400 U
87-68-3	Hexachlorobutadiene	870	< 870 U
59-50-7	4-Chloro-3-methylphenol	4,400	< 4,400 U
91-57-6	2-Methylnaphthalene	870	< 870 U
77-47-4	Hexachlorocyclopentadiene	4,400	< 4,400 U
88-06-2	2,4,6-Trichlorophenol	4,400	< 4,400 U
95-95-4	2,4,5-Trichlorophenol	4,400	< 4,400 U
91-58-7	2-Chloronaphthalene	870	< 870 U
88-74-4	2-Nitroaniline	4,400	< 4,400 U
131-11-3	Dimethylphthalate	870	< 870 U
208-96-8	Acenaphthylene	870	< 870 U
99-09-2	3-Nitroaniline	4,400	< 4,400 U
83-32-9	Acenaphthene	870	< 870 U
51-28-5	2,4-Dinitrophenol	8,700	< 8,700 U
100-02-7	4-Nitrophenol	4,400	< 4,400 U
132-64-9	Dibenzofuran	870	< 870 U
606-20-2	2,6-Dinitrotoluene	4,400	< 4,400 U
121-14-2	2,4-Dinitrotoluene	4,400	< 4,400 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: B-3-8.5
DILUTION

Lab Sample ID: ML66D
LIMS ID: 08-4484
Matrix: Soil
Date Analyzed: 03/21/08 16:44

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	870	< 870 U
7005-72-3	4-Chlorophenyl-phenylether	870	< 870 U
86-73-7	Fluorene	870	< 870 U
100-01-6	4-Nitroaniline	4,400	< 4,400 U
534-52-1	4,6-Dinitro-2-Methylphenol	8,700	< 8,700 U
86-30-6	N-Nitrosodiphenylamine	870	< 870 U
101-55-3	4-Bromophenyl-phenylether	870	< 870 U
118-74-1	Hexachlorobenzene	870	< 870 U
87-86-5	Pentachlorophenol	4,400	< 4,400 U
85-01-8	Phenanthrene	870	< 870 U
86-74-8	Carbazole	870	< 870 U
120-12-7	Anthracene	870	< 870 U
84-74-2	Di-n-Butylphthalate	870	< 870 U
206-44-0	Fluoranthene	870	< 870 U
129-00-0	Pyrene	870	< 870 U
85-68-7	Butylbenzylphthalate	870	< 870 U
91-94-1	3,3'-Dichlorobenzidine	4,400	< 4,400 U
56-55-3	Benzo(a)anthracene	870	< 870 U
117-81-7	bis(2-Ethylhexyl)phthalate	870	< 870 U
218-01-9	Chrysene	870	< 870 U
117-84-0	Di-n-Octyl phthalate	870	< 870 U
205-99-2	Benzo(b)fluoranthene	870	< 870 U
207-08-9	Benzo(k)fluoranthene	870	< 870 U
50-32-8	Benzo(a)pyrene	870	< 870 U
193-39-5	Indeno(1,2,3-cd)pyrene	870	< 870 U
53-70-3	Dibenz(a,h)anthracene	870	< 870 U
191-24-2	Benzo(g,h,i)perylene	870	< 870 U
90-12-0	1-Methylnaphthalene	870	< 870 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	72.6%	2-Fluorobiphenyl	74.6%
d14-p-Terphenyl	89.0%	d4-1,2-Dichlorobenzene	71.4%
d5-Phenol	41.3%	2-Fluorophenol	52.7%
2,4,6-Tribromophenol	95.9%	d4-2-Chlorophenol	61.3%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: GP-3-12
SAMPLE

Lab Sample ID: ML66E
LIMS ID: 08-4485
Matrix: Soil
Data Release Authorized:
Reported: 03/24/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Date Extracted: 03/17/08
Date Analyzed: 03/18/08 23:09
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.74 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 9.4%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	65	< 65 U
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: GP-3-12
SAMPLE

Lab Sample ID: ML66E
LIMS ID: 08-4485
Matrix: Soil
Date Analyzed: 03/18/08 23:09

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	65	< 65 U
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	< 65 U
129-00-0	Pyrene	65	< 65 U
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo (a) anthracene	65	< 65 U
117-81-7	bis (2-Ethylhexyl) phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo (b) fluoranthene	65	< 65 U
207-08-9	Benzo (k) fluoranthene	65	< 65 U
50-32-8	Benzo (a) pyrene	65	< 65 U
193-39-5	Indeno (1,2,3-cd) pyrene	65	< 65 U
53-70-3	Dibenz (a, h) anthracene	65	< 65 U
191-24-2	Benzo (g, h, i) perylene	65	< 65 U
90-12-0	1-Methylnaphthalene	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	66.4%	2-Fluorobiphenyl	76.4%
d14-p-Terphenyl	80.8%	d4-1,2-Dichlorobenzene	72.0%
d5-Phenol	64.8%	2-Fluorophenol	24.3%
2,4,6-Tribromophenol	85.6%	d4-2-Chlorophenol	68.5%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: SS-1-2
SAMPLE

Lab Sample ID: ML66F

QC Report No: ML66-Parametrix, Inc.

LIMS ID: 08-4486

Project: Yakima

Matrix: Soil

555-5753-001-02-022

Data Release Authorized: 

Date Sampled: 03/03/08

Reported: 03/24/08

Date Received: 03/05/08

Date Extracted: 03/17/08

Sample Amount: 1.92 g-dry-wt

Date Analyzed: 03/18/08 23:44

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT4/LJR

Dilution Factor: 1.00

GPC Cleanup: No

Percent Moisture: 5.9%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	260	< 260 U
111-44-4	Bis-(2-Chloroethyl) Ether	260	< 260 U
95-57-8	2-Chlorophenol	260	< 260 U
541-73-1	1,3-Dichlorobenzene	260	< 260 U
106-46-7	1,4-Dichlorobenzene	260	< 260 U
100-51-6	Benzyl Alcohol	1,300	< 1,300 U
95-50-1	1,2-Dichlorobenzene	260	< 260 U
95-48-7	2-Methylphenol	260	< 260 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	260	< 260 U
106-44-5	4-Methylphenol	260	< 260 U
621-64-7	N-Nitroso-Di-N-Propylamine	1,300	< 1,300 U
67-72-1	Hexachloroethane	260	< 260 U
98-95-3	Nitrobenzene	260	< 260 U
78-59-1	Isophorone	260	< 260 U
88-75-5	2-Nitrophenol	1,300	< 1,300 U
105-67-9	2,4-Dimethylphenol	260	< 260 U
65-85-0	Benzoic Acid	2,600	< 2,600 U
111-91-1	bis(2-Chloroethoxy) Methane	260	< 260 U
120-83-2	2,4-Dichlorophenol	1,300	< 1,300 U
120-82-1	1,2,4-Trichlorobenzene	260	< 260 U
91-20-3	Naphthalene	260	< 260 U
106-47-8	4-Chloroaniline	1,300	< 1,300 U
87-68-3	Hexachlorobutadiene	260	< 260 U
59-50-7	4-Chloro-3-methylphenol	1,300	< 1,300 U
91-57-6	2-Methylnaphthalene	260	< 260 U
77-47-4	Hexachlorocyclopentadiene	1,300	< 1,300 U
88-06-2	2,4,6-Trichlorophenol	1,300	< 1,300 U
95-95-4	2,4,5-Trichlorophenol	1,300	< 1,300 U
91-58-7	2-Chloronaphthalene	260	< 260 U
88-74-4	2-Nitroaniline	1,300	< 1,300 U
131-11-3	Dimethylphthalate	260	< 260 U
208-96-8	Acenaphthylene	260	< 260 U
99-09-2	3-Nitroaniline	1,300	< 1,300 U
83-32-9	Acenaphthene	260	< 260 U
51-28-5	2,4-Dinitrophenol	2,600	< 2,600 U
100-02-7	4-Nitrophenol	1,300	< 1,300 U
132-64-9	Dibenzofuran	260	< 260 U
606-20-2	2,6-Dinitrotoluene	1,300	< 1,300 U
121-14-2	2,4-Dinitrotoluene	1,300	< 1,300 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: SS-1-2
SAMPLE

Lab Sample ID: ML66F
LIMS ID: 08-4486
Matrix: Soil
Date Analyzed: 03/18/08 23:44

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	260	< 260 U
7005-72-3	4-Chlorophenyl-phenylether	260	< 260 U
86-73-7	Fluorene	260	< 260 U
100-01-6	4-Nitroaniline	1,300	< 1,300 U
534-52-1	4,6-Dinitro-2-Methylphenol	2,600	< 2,600 U
86-30-6	N-Nitrosodiphenylamine	260	< 260 U
101-55-3	4-Bromophenyl-phenylether	260	< 260 U
118-74-1	Hexachlorobenzene	260	< 260 U
87-86-5	Pentachlorophenol	1,300	< 1,300 U
85-01-8	Phenanthrene	260	< 260 U
86-74-8	Carbazole	260	< 260 U
120-12-7	Anthracene	260	< 260 U
84-74-2	Di-n-Butylphthalate	260	< 260 U
206-44-0	Fluoranthene	260	< 260 U
129-00-0	Pyrene	260	< 260 U
85-68-7	Butylbenzylphthalate	260	< 260 U
91-94-1	3,3'-Dichlorobenzidine	1,300	< 1,300 U
56-55-3	Benzo (a) anthracene	260	< 260 U
117-81-7	bis (2-Ethylhexyl) phthalate	260	< 260 U
218-01-9	Chrysene	260	< 260 U
117-84-0	Di-n-Octyl phthalate	260	< 260 U
205-99-2	Benzo (b) fluoranthene	260	< 260 U
207-08-9	Benzo (k) fluoranthene	260	< 260 U
50-32-8	Benzo (a) pyrene	260	< 260 U
193-39-5	Indeno (1,2,3-cd) pyrene	260	< 260 U
53-70-3	Dibenz (a,h) anthracene	260	< 260 U
191-24-2	Benzo (g,h,i) perylene	260	< 260 U
90-12-0	1-Methylnaphthalene	260	< 260 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.8%	2-Fluorobiphenyl	70.8%
d14-p-Terphenyl	119%	d4-1,2-Dichlorobenzene	64.4%
d5-Phenol	62.1%	2-Fluorophenol	34.7%
2,4,6-Tribromophenol	98.7%	d4-2-Chlorophenol	64.8%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2Sample ID: B-2-13
SAMPLELab Sample ID: ML66G
LIMS ID: 08-4487
Matrix: Soil
Data Release Authorized:
Reported: 03/24/08QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08Date Extracted: 03/17/08
Date Analyzed: 03/19/08 00:19
Instrument/Analyst: NT4/LJR
GPC Cleanup: NoSample Amount: 7.63 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 10.5%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	180
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	71
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U

Lab Sample ID: ML66G
 LIMS ID: 08-4487
 Matrix: Soil
 Date Analyzed: 03/19/08 00:19

QC Report No: ML66-Parametrix, Inc.
 Project: Yakima
 555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	160
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	170
129-00-0	Pyrene	66	160
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo (a) anthracene	66	< 66 U
117-81-7	bis (2-Ethylhexyl) phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo (b) fluoranthene	66	< 66 U
207-08-9	Benzo (k) fluoranthene	66	< 66 U
50-32-8	Benzo (a) pyrene	66	< 66 U
193-39-5	Indeno (1,2,3-cd) pyrene	66	< 66 U
53-70-3	Dibenz (a,h) anthracene	66	< 66 U
191-24-2	Benzo (g,h,i) perylene	66	< 66 U
90-12-0	1-Methylnaphthalene	66	< 66 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	58.4%	2-Fluorobiphenyl	70.4%
d14-p-Terphenyl	69.2%	d4-1,2-Dichlorobenzene	64.4%
d5-Phenol	58.1%	2-Fluorophenol	25.1%
2,4,6-Tribromophenol	93.9%	d4-2-Chlorophenol	63.5%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: LCS-031708
LCS/LCSD

Lab Sample ID: LCS-031708
LIMS ID: 08-4481
Matrix: Soil
Data Release Authorized:
Reported: 03/24/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Date Extracted LCS/LCSD: 03/17/08

Sample Amount LCS: 7.50 g
LCSD: 7.50 g

Date Analyzed LCS: 03/18/08 20:49
LCSD: 03/18/08 21:24

Final Extract Volume LCS: 0.5 mL
LCSD: 0.5 mL

Instrument/Analyst LCS: NT4/LJR
LCSD: NT4/LJR

Dilution Factor LCS: 1.00
LCSD: 1.00

GPC Cleanup: NO

Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	1070	1670	64.1%	1210	1670	72.5%	12.3%
Bis-(2-Chloroethyl) Ether	956	1670	57.2%	1030	1670	61.7%	7.5%
2-Chlorophenol	1070	1670	64.1%	1080	1670	64.7%	0.9%
1,3-Dichlorobenzene	921	1670	55.1%	1010	1670	60.5%	9.2%
1,4-Dichlorobenzene	944	1670	56.5%	1010	1670	60.5%	6.8%
Benzyl Alcohol	1750	3330	52.6%	1610	3330	48.3%	8.3%
1,2-Dichlorobenzene	974	1670	58.3%	1040	1670	62.3%	6.6%
2-Methylphenol	1130	1670	67.7%	1110	1670	66.5%	1.8%
2,2'-Oxybis(1-Chloropropane)	880	1670	52.7%	938	1670	56.2%	6.4%
4-Methylphenol	2260	3330	67.9%	2240	3330	67.3%	0.9%
N-Nitroso-Di-N-Propylamine	1070	1670	64.1%	1140	1670	68.3%	6.3%
Hexachloroethane	917	1670	54.9%	999	1670	59.8%	8.6%
Nitrobenzene	943	1670	56.5%	1020	1670	61.1%	7.8%
Isophorone	1170	1670	70.1%	1230	1670	73.7%	5.0%
2-Nitrophenol	1070	1670	64.1%	1130	1670	67.7%	5.5%
2,4-Dimethylphenol	1050	1670	62.9%	1090	1670	65.3%	3.7%
Benzoic Acid	3750	5000	75.0%	3720	5000	74.4%	0.8%
bis(2-Chloroethoxy) Methane	1090	1670	65.3%	1150	1670	68.9%	5.4%
2,4-Dichlorophenol	1150	1670	68.9%	1170	1670	70.1%	1.7%
1,2,4-Trichlorobenzene	971	1670	58.1%	1050	1670	62.9%	7.8%
Naphthalene	1020	1670	61.1%	1100	1670	65.9%	7.5%
4-Chloroaniline	2050	4000	51.2%	2060	4000	51.5%	0.5%
Hexachlorobutadiene	951	1670	56.9%	1020	1670	61.1%	7.0%
4-Chloro-3-methylphenol	1240	1670	74.3%	1220	1670	73.1%	1.6%
2-Methylnaphthalene	1130	1670	67.7%	1180	1670	70.7%	4.3%
Hexachlorocyclopentadiene	3620	5000	72.4%	3880	5000	77.6%	6.9%
2,4,6-Trichlorophenol	1230	1670	73.7%	1290	1670	77.2%	4.8%
2,4,5-Trichlorophenol	1220	1670	73.1%	1150	1670	68.9%	5.9%
2-Chloronaphthalene	1110	1670	66.5%	1140	1670	68.3%	2.7%
2-Nitroaniline	1180	1670	70.7%	1180	1670	70.7%	0.0%
Dimethylphthalate	1290	1670	77.2%	1290	1670	77.2%	0.0%
Acenaphthylene	1260	1670	75.4%	1290	1670	77.2%	2.4%
3-Nitroaniline	2620	4270	61.4%	2580	4270	60.4%	1.5%
Acenaphthene	1170	1670	70.1%	1200	1670	71.9%	2.5%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: LCSD-031708
LCS/LCSD

Lab Sample ID: LCS-031708
LIMS ID: 08-4481
Matrix: Soil
Date Analyzed LCS: 03/18/08 20:49
LCSD: 03/18/08 21:24

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
2,4-Dinitrophenol	4220	5000	84.4%	4330	5000	86.6%	2.6%
4-Nitrophenol	1170	1670	70.1%	1150	1670	68.9%	1.7%
Dibenzofuran	1200	1670	71.9%	1230	1670	73.7%	2.5%
2,6-Dinitrotoluene	1390	1670	83.2%	1380	1670	82.6%	0.7%
2,4-Dinitrotoluene	1430	1670	85.6%	1380	1670	82.6%	3.6%
Diethylphthalate	1390	1670	83.2%	1390	1670	83.2%	0.0%
4-Chlorophenyl-phenylether	1230	1670	73.7%	1260	1670	75.4%	2.4%
Fluorene	1260	1670	75.4%	1270	1670	76.0%	0.8%
4-Nitroaniline	1180	1670	70.7%	1190	1670	71.3%	0.8%
4,6-Dinitro-2-Methylphenol	3450	5000	69.0%	3500	5000	70.0%	1.4%
N-Nitrosodiphenylamine	1580	1670	94.6%	1600	1670	95.8%	1.3%
4-Bromophenyl-phenylether	1160	1670	69.5%	1180	1670	70.7%	1.7%
Hexachlorobenzene	1120	1670	67.1%	1160	1670	69.5%	3.5%
Pentachlorophenol	1190	1670	71.3%	1220	1670	73.1%	2.5%
Phenanthrene	1200	1670	71.9%	1260	1670	75.4%	4.9%
Carbazole	1260	1670	75.4%	1270	1670	76.0%	0.8%
Anthracene	1210	1670	72.5%	1200	1670	71.9%	0.8%
Di-n-Butylphthalate	1390	1670	83.2%	1400	1670	83.8%	0.7%
Fluoranthene	1280	1670	76.6%	1300	1670	77.8%	1.6%
Pyrene	1300	1670	77.8%	1290	1670	77.2%	0.8%
Butylbenzylphthalate	1410	1670	84.4%	1410	1670	84.4%	0.0%
3,3'-Dichlorobenzidine	2180	4270	51.1%	2060	4270	48.2%	5.7%
Benzo(a)anthracene	1250	1670	74.9%	1250	1670	74.9%	0.0%
bis(2-Ethylhexyl)phthalate	1360	1670	81.4%	1380	1670	82.6%	1.5%
Chrysene	1260	1670	75.4%	1250	1670	74.9%	0.8%
Di-n-Octyl phthalate	1240	1670	74.3%	1260	1670	75.4%	1.6%
Benzo(b)fluoranthene	1360	1670	81.4%	1270	1670	76.0%	6.8%
Benzo(k)fluoranthene	1200	1670	71.9%	1390	1670	83.2%	14.7%
Benzo(a)pyrene	1250	1670	74.9%	1280	1670	76.6%	2.4%
Indeno(1,2,3-cd)pyrene	1080	1670	64.7%	1090	1670	65.3%	0.9%
Dibenz(a,h)anthracene	1100	1670	65.9%	1110	1670	66.5%	0.9%
Benzo(g,h,i)perylene	1030	1670	61.7%	990	1670	59.3%	4.0%
1-Methylnaphthalene	1150	1670	68.9%	1200	1670	71.9%	4.3%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	61.2%	65.2%
2-Fluorobiphenyl	70.0%	72.0%
d14-p-Terphenyl	81.2%	78.4%
d4-1,2-Dichlorobenzene	58.0%	63.6%
d5-Phenol	61.3%	61.1%
2-Fluorophenol	14.8%	14.7%
2,4,6-Tribromophenol	86.4%	85.6%
d4-2-Chlorophenol	64.0%	65.1%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Soil

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Received: 03/05/08

Data Release Authorized: 
Reported: 03/17/08

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-031108	Method Blank	03/11/08	03/13/08	1.00	Diesel	5.0	< 5.0 U
08-4481	HC ID: ---		FID3A	1.0	Motor Oil o-Terphenyl	10	< 10 U 83.3%
ML66A	B-3-14	03/11/08	03/12/08	1.00	Diesel	5.4	22
08-4481	HC ID: DRO/MOTOR OIL		FID3A	1.0	Motor Oil o-Terphenyl	11	150 95.8%
ML66B	SS-2-1.5	03/11/08	03/13/08	1.00	Diesel	5.9	< 5.9 U
08-4482	HC ID: MOTOR OIL		FID3A	1.0	Motor Oil o-Terphenyl	12	13 76.9%
ML66C	FLY ASH	03/11/08	03/12/08	1.00	Diesel	14	120
08-4483	HC ID: DRO/MOTOR OIL		FID3A	1.0	Motor Oil o-Terphenyl	27	440 79.1%
ML66D	B-3-8.5	03/11/08	03/13/08	1.00	Diesel	260	1,800
08-4484	HC ID: DRO/MOTOR OIL		FID3A	50	Motor Oil o-Terphenyl	520	15,000 D
ML66E	GP-3-12	03/11/08	03/13/08	1.00	Diesel	5.5	11
08-4485	HC ID: DRO/MOTOR OIL		FID3A	1.0	Motor Oil o-Terphenyl	11	83 77.6%
ML66F	SS-1-2	03/11/08	03/13/08	1.00	Diesel	260	2,800
08-4486	HC ID: DRO/MOTOR OIL		FID3A	50	Motor Oil o-Terphenyl	530	19,000 D
ML66G	B-2-13	03/11/08	03/12/08	1.00	Diesel	5.6	32
08-4487	HC ID: DRO/MOTOR OIL		FID3A	1.0	Motor Oil o-Terphenyl	11	130 96.7%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID

Page 1 of 1

Sample ID: LCS-031108

LAB CONTROL

Lab Sample ID: LCS-031108

LIMS ID: 08-4481

Matrix: Soil

Data Release Authorized: 

Reported: 03/17/08

QC Report No: ML66-Parametrix, Inc.

Project: Yakima

555-5753-001-02-022

Date Sampled: NA

Date Received: NA

Date Extracted: 03/11/08

Date Analyzed: 03/12/08 21:14

Instrument/Analyst: FID3A/MS

Sample Amount: 10.0 g

Final Extract Volume: 1.0 mL

Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	107	150	71.3%

TPHD Surrogate Recovery

o-Terphenyl	90.2%
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Results reported in mg/kg

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080313.b/0313a012.d
Method: /chem3/fid3a.i/20080313.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/17/2008
Macro: FID:3A030808

ARI ID: ML66MBS1
Client ID:
Injection: 13-MAR-2008 18:39
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.779	0.021	17090	14927	GAS (Tol-C12)	647699	16
C8	1.946	0.001	7853	2501	DIESEL (C12-C24)	540243	29
C10	2.666	-0.006	6925	10387	M.OIL (C24-C38)	658157	69
C12	3.154	0.000	6183	3942	AK-102 (C10-C25)	748411	34
C14	3.524	-0.003	5868	4775	AK-103 (C25-C36)	532851	90
C16	3.836	-0.001	5632	898			
C18	4.103	-0.008	5432	4638			
C20	4.345	-0.021	14141	59133	JET-A (C10-C18)	527521	37
C22	4.598	-0.001	6321	3638	MIN.OIL (C24-C38)	658157	53
C24	4.826	0.009	5545	4414	MSPRIT (Tol-C12)	647699	41
C25	4.924	0.001	6336	6098	TRANOIL (C12-C28)	685252	45
C26	5.013	-0.013	6269	8987	KEROSEN (Tol-C18)	967051	63
C28	5.228	0.000	7479	4572			
C32	5.623	0.004	9772	6594	FUEL OIL (C10-C24)	748411	1
C34	5.849	0.005	9509	19592			
Filter Peak	7.608	-0.002	6249	1621	JP-4 (Tol-C14)	778118	68
C36	6.127	0.003	7813	3275	CREOSOT (C8-C22)	938841	90
C38	6.483	0.005	7264	4337	HYDRAUL (C24-C38)	658157	74
C40	6.951	-0.003	6636	3708	BUNKERC (C10-C38)	1406568	269

Range Times: NW Diesel(3.204 - 4.868) NW Gas(1.708 - 3.204) NW M.Oil(4.868 - 6.528)
AK102(2.623 - 4.874) AK103(4.874 - 6.174) Jet A(2.623 - 4.160)

Surrogate	Area	Amount	%Rec
o-Terphenyl	704142	37.5	83.4
Triacontane	697312	45.8	101.8

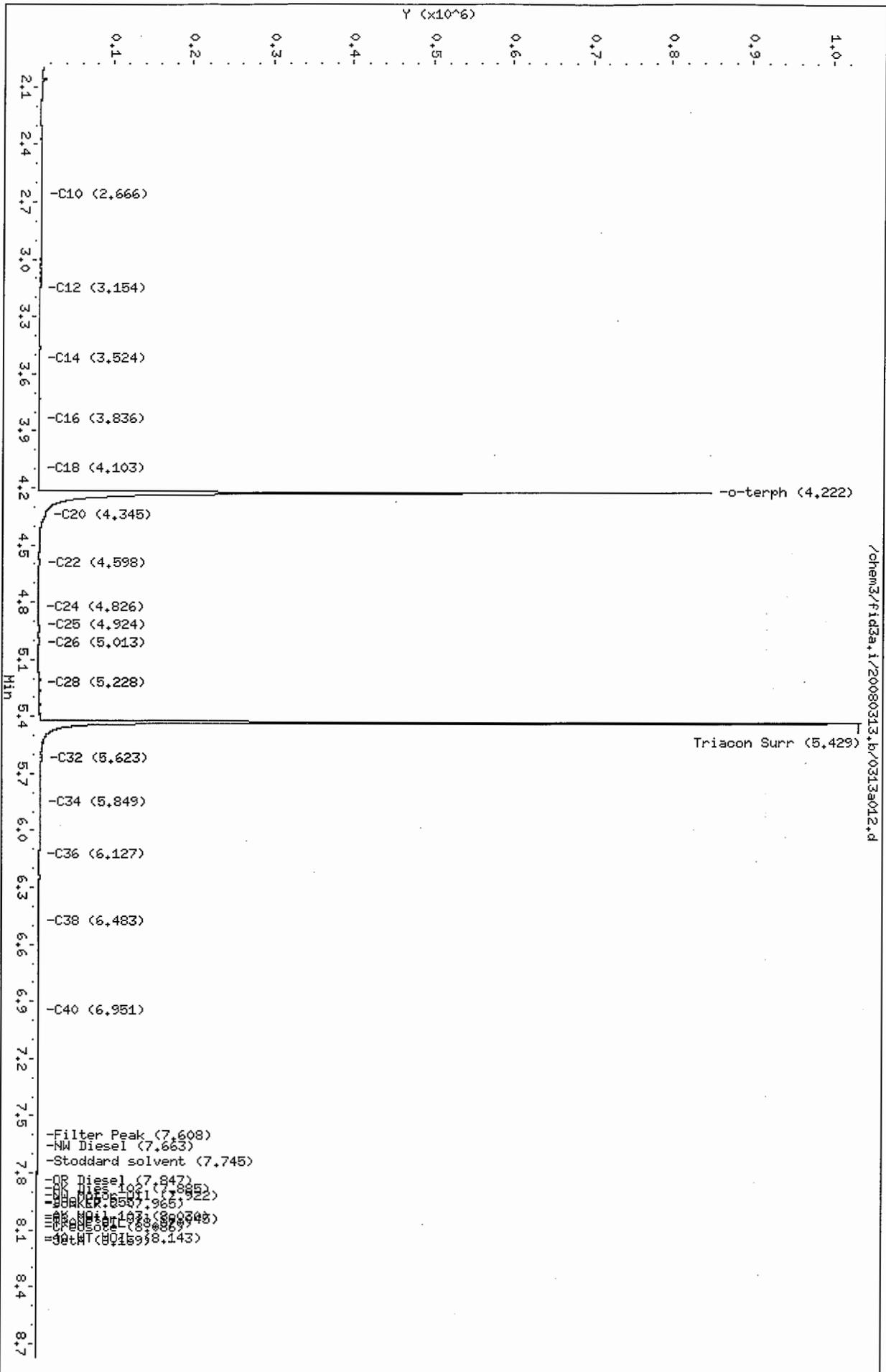
AK 03/17/08

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a,i/20080313,b/0313a012.d
Date: 13-MAR-2008 18:39
Client ID:
Sample Info: HL66HPS1

Column phase: RTX-1

Instrument: fid3a,i
Operator: JR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080312b.b/0312a060.d
Method: /chem3/fid3a.i/20080312b.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/13/2008
Macro: FID:3A030808

ARI ID: ML66LCSS1
Client ID:
Injection: 12-MAR-2008 21:14
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.781	0.020	31092	39438	GAS (Tol-C12)	4577676	112
C8	1.943	-0.005	13642	16331	DIESEL (C12-C24)	19576541	1068
C10	2.673	-0.001	238856	225059	M.OIL (C24-C38)	1159020	121
C12	3.146	-0.006	656182	327879	AK-102 (C10-C25)	23077000	1039
C14	3.522	-0.001	234069	95993	AK-103 (C25-C36)	980185	165
C16	3.830	-0.006	932320	628350			
C18	4.113	0.001	651251	550156			
C20	4.365	-0.002	516729	372307	JET-A (C10-C18)	17282825	1215
C22	4.596	-0.005	220899	158625	MIN.OIL (C24-C38)	1159020	93
C24	4.813	-0.007	91583	93946	MSPIRIT (Tol-C12)	4577676	289
C25	4.918	-0.009	54021	60804	TRANOIL (C12-C28)	20058943	1316
C26	5.020	-0.011	33056	47901	KEROSEN (Tol-C18)	18360041	1190
C28	5.241	0.009	15768	19833			
C32	5.626	0.003	10985	1755	FUEL OIL(C10-C24)	23077000	43
C34	5.857	0.008	11015	10471			
Filter Peak	7.605	0.001	8081	2744	JP-4 (Tol-C14)	9156026	806
C36	6.130	0.001	9642	7114	CREOSOT (C8-C22)	23197311	2225
C38	6.491	0.005	9120	11978	HYDRAUL (C24-C38)	1159020	130
C40	6.955	-0.004	8358	5165	BUNKERC (C10-C38)	24236020	4636

Range Times: NW Diesel(3.202 - 4.870) NW Gas(1.711 - 3.202) NW M.Oil(4.870 - 6.536)
AK102(2.624 - 4.877) AK103(4.877 - 6.179) Jet A(2.624 - 4.161)

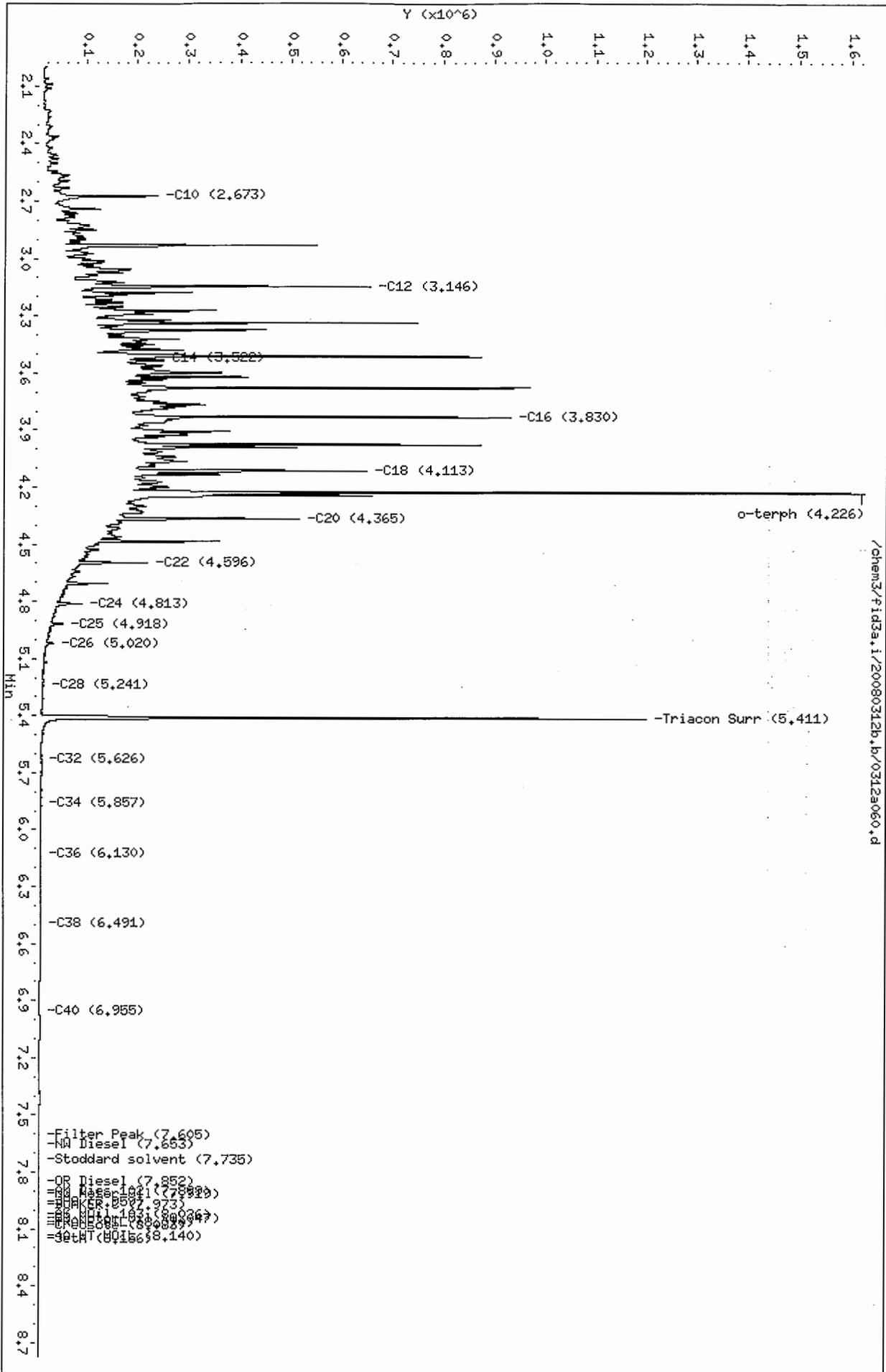
Surrogate	Area	Amount	%Rec
o-Terphenyl	762137	40.6	90.3
Triacontane	724477	47.6	105.8

u.r 3/13/08

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080312b.b/0312a060.d
 Date: 12-MAR-2008 21:14
 Client ID:
 Sample Info: HL6LCS1
 Column phase: RTX-1

Instrument: fid3a.i
 Operator: JR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080312b.b/0312a061.d
Method: /chem3/fid3a.i/20080312b.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/13/2008
Macro: FID:3A030808

ARI ID: ML66A
Client ID:
Injection: 12-MAR-2008 21:29
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.769	0.008	22650	12475	GAS (Tol-C12)	696653	17
C8	1.956	0.009	8510	9380	DIESEL (C12-C24)	3788132	207
C10	2.682	0.008	6873	2192	M.OIL (C24-C38)	13450946	1400
C12	3.144	-0.008	6627	1585	AK-102 (C10-C25)	4035463	182
C14	3.521	-0.002	7707	6853	AK-103 (C25-C36)	12692564	2143
C16	3.830	-0.006	14967	13711			
C18	4.109	-0.002	15912	3470			
C20	4.369	0.003	33316	14578	JET-A (C10-C18)	800981	56
C22	4.601	0.000	88831	73384	MIN.OIL (C24-C38)	13450946	1077
C24	4.821	0.001	161379	25546	MSPIRIT (Tol-C12)	696653	44
C25	4.930	0.003	219868	177955	TRANOIL (C12-C28)	9008814	591
C26	5.032	0.001	213677	105614	KEROSEN (Tol-C18)	1286665	83
C28	5.232	0.000	238379	107187			
C32	5.622	-0.001	166322	74698	FUEL OIL(C10-C24)	3999101	8
C34	5.844	-0.005	140724	133105			
Filter Peak	7.608	0.004	9178	7455	JP-4 (Tol-C14)	847256	75
C36	6.134	0.006	53447	33842	CREOSOT (C8-C22)	2456223	236
C38	6.487	0.000	25365	4032	HYDRAUL (C24-C38)	13450946	1512
C40	6.963	0.004	13540	9371	BUNKERC (C10-C38)	17450047	3338

ppm/MO.

Range Times: NW Diesel(3.202 - 4.870) NW Gas(1.711 - 3.202) NW M.Oil(4.870 - 6.536)
AK102(2.624 - 4.877) AK103(4.877 - 6.179) Jet A(2.624 - 4.161)

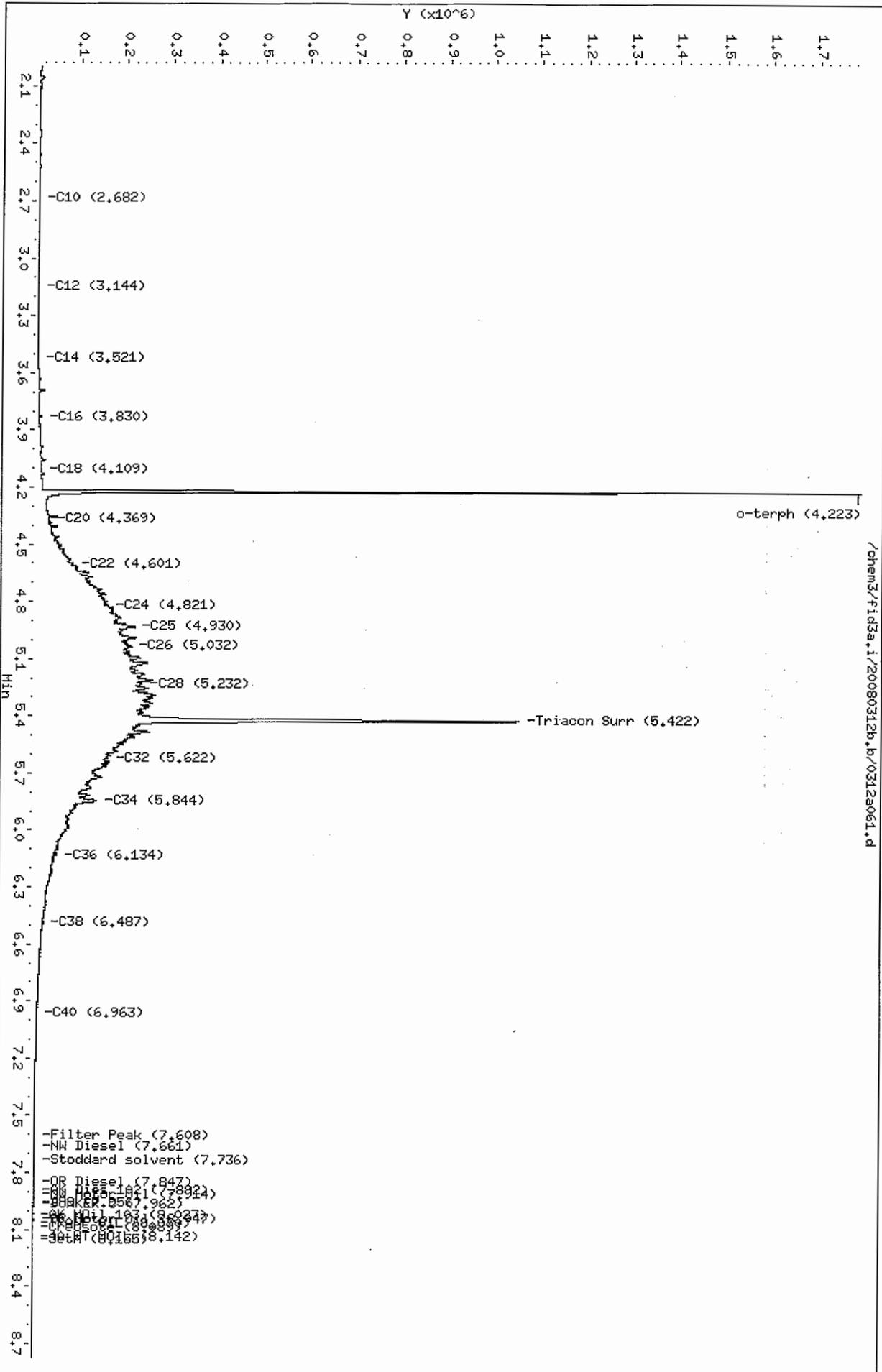
Surrogate	Area	Amount	%Rec
o-Terphenyl	809122	43.1	95.8
Triacontane	670202	44.0	97.8

ms 3/13/08

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080312b.b/0312a061.d
Date: 12-MAR-2008 21:29
Client ID:
Sample Info: HL66A
Column phase: RTX-1

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080313.b/0313a013.d
Method: /chem3/fid3a.i/20080313.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/17/2008
Macro: FID:3A030808

ARI ID: ML66B
Client ID:
Injection: 13-MAR-2008 18:55
Dilution Factor: 1

FID:3A RESULTS

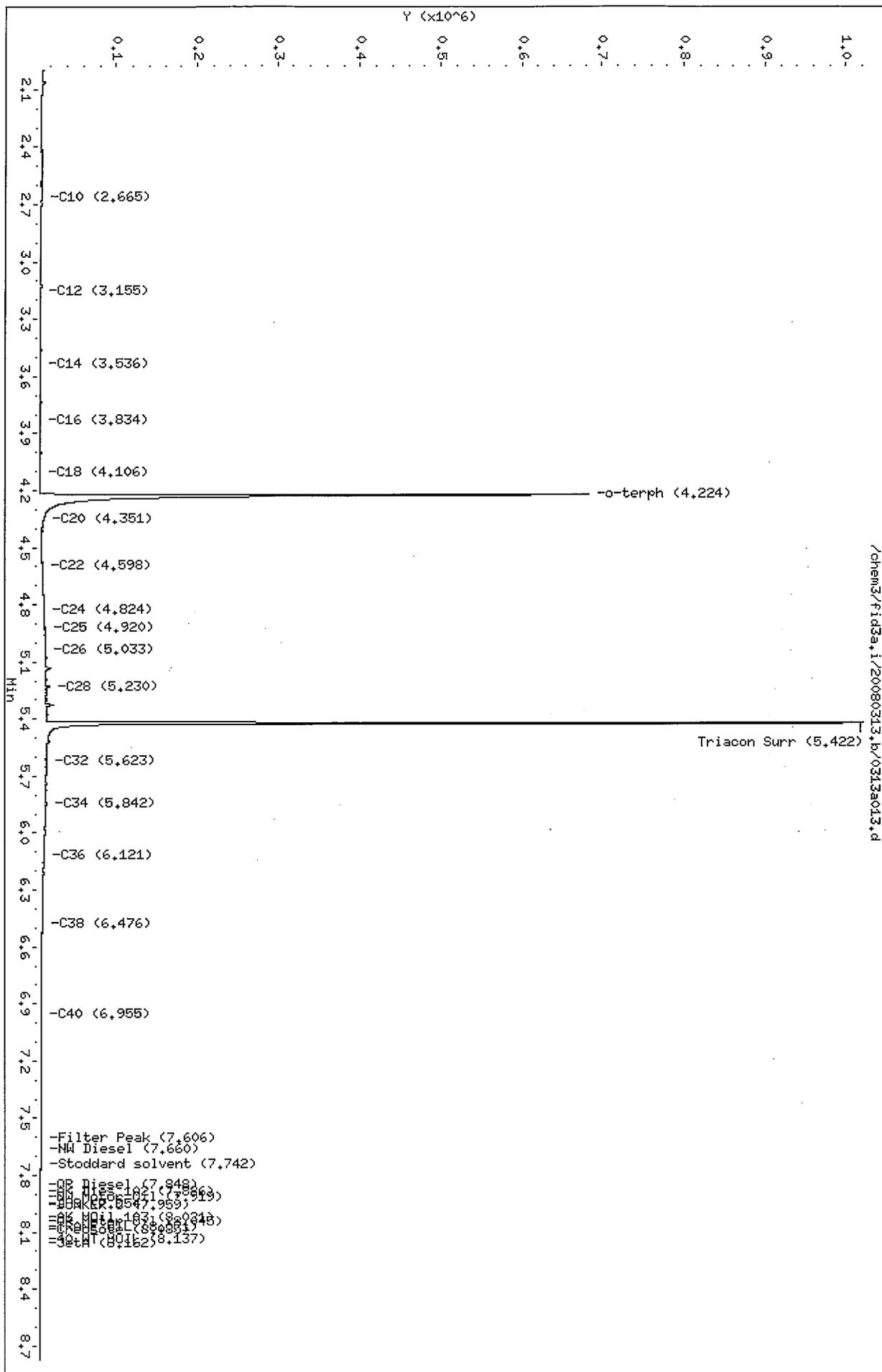
Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.770	0.012	16449	8454	GAS (Tol-C12)	581920	14
C8	1.937	-0.008	7746	4766	DIESEL (C12-C24)	592237	32
C10	2.665	-0.008	6704	11797	M.OIL (C24-C38)	1072686	112
C12	3.155	0.001	6064	2181	AK-102 (C10-C25)	802680	36
C14	3.536	0.009	5759	1376	AK-103 (C25-C36)	908126	153
C16	3.834	-0.002	5616	3468			
C18	4.106	-0.004	5691	2954			
C20	4.351	-0.015	10639	22306	JET-A (C10-C18)	502674	35
C22	4.598	-0.001	9315	8252	MIN.OIL (C24-C38)	1072686	86
C24	4.824	0.007	10657	8945	MSPiRiT (Tol-C12)	581920	37
C25	4.920	-0.004	12466	9561	TRANOIL (C12-C28)	892327	59
C26	5.033	0.007	12850	9478	KEROSEN (Tol-C18)	884234	57
C28	5.230	0.002	17733	21605			
C32	5.623	0.004	14112	16225	FUEL OIL(C10-C24)	792597	1
C34	5.842	-0.002	14610	28743			
Filter Peak	7.606	-0.004	6471	3611	JP-4 (Tol-C14)	698728	61
C36	6.121	-0.003	10183	4670	CREOSOT (C8-C22)	920710	88
C38	6.476	-0.002	8450	5518	HYDRAUL (C24-C38)	1072686	121
C40	6.955	0.001	7162	4002	BUNKERC (C10-C38)	1865283	357

Range Times: NW Diesel(3.204 - 4.868) NW Gas(1.708 - 3.204) NW M.Oil(4.868 - 6.528)
AK102(2.623 - 4.874) AK103(4.874 - 6.174) Jet A(2.623 - 4.160)

JR 03/17/08

Surrogate	Area	Amount	%Rec
o-Terphenyl	648223	34.6	76.8
Triacontane	593850	39.0	86.7

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080312b.b/0312a063.d
Method: /chem3/fid3a.i/20080312b.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/13/2008
Macro: FID:3A030808

ARI ID: ML66C
Client ID:
Injection: 12-MAR-2008 22:01
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.764	0.003	160350	161141	GAS (Tol-C12)	3985849	98
C8	1.958	0.011	12302	18806	DIESEL (C12-C24)	7965408	435
C10	2.679	0.005	39795	26115	M.OIL (C24-C38)	15498601	1614
C12	3.182	0.030	47378	48474	AK-102 (C10-C25)	10794561	486
C14	3.525	0.001	55870	58063	AK-103 (C25-C36)	14790538	2497
C16	3.830	-0.006	45505	35110			
C18	4.109	-0.003	46861	32602			
C20	4.359	-0.008	89762	76720	JET-A (C10-C18)	5427329	382
C22	4.597	-0.004	241487	181566	MIN.OIL (C24-C38)	15498601	1241
C24	4.821	0.001	252393	168429	MSPIRIT (Tol-C12)	3985849	252
C25	4.929	0.002	287888	95109	TRANOIL (C12-C28)	14481391	950
C26	5.032	0.001	300847	77167	KEROSEN (Tol-C18)	6640666	430
C28	5.228	-0.003	292459	174151			
C32	5.624	0.001	188068	93180	FUEL OIL(C10-C24)	10737920	20
C34	5.855	0.005	118011	82231			
Filter Peak	7.605	0.001	8610	7354	JP-4 (Tol-C14)	4898563	431
C36	6.128	0.000	52152	10360	CREOSOT (C8-C22)	8879726	852
C38	6.484	-0.002	24003	11279	HYDRAUL (C24-C38)	15498601	1742
C40	6.955	-0.004	13024	9947	BUNKERC (C10-C38)	26236522	5018

DPH/MO

Range Times: NW Diesel(3.202 - 4.870) NW Gas(1.711 - 3.202) NW M.Oil(4.870 - 6.536)
AK102(2.624 - 4.877) AK103(4.877 - 6.179) Jet A(2.624 - 4.161)

Surrogate	Area	Amount	%Rec
o-Terphenyl	667191	35.6	79.0
Triacontane	553262	36.3	80.8

m.2 3/13/08

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080312b.b/0312a063.d

Date: 12-MAR-2008 22:01

Client ID:

Sample Info: HL66C

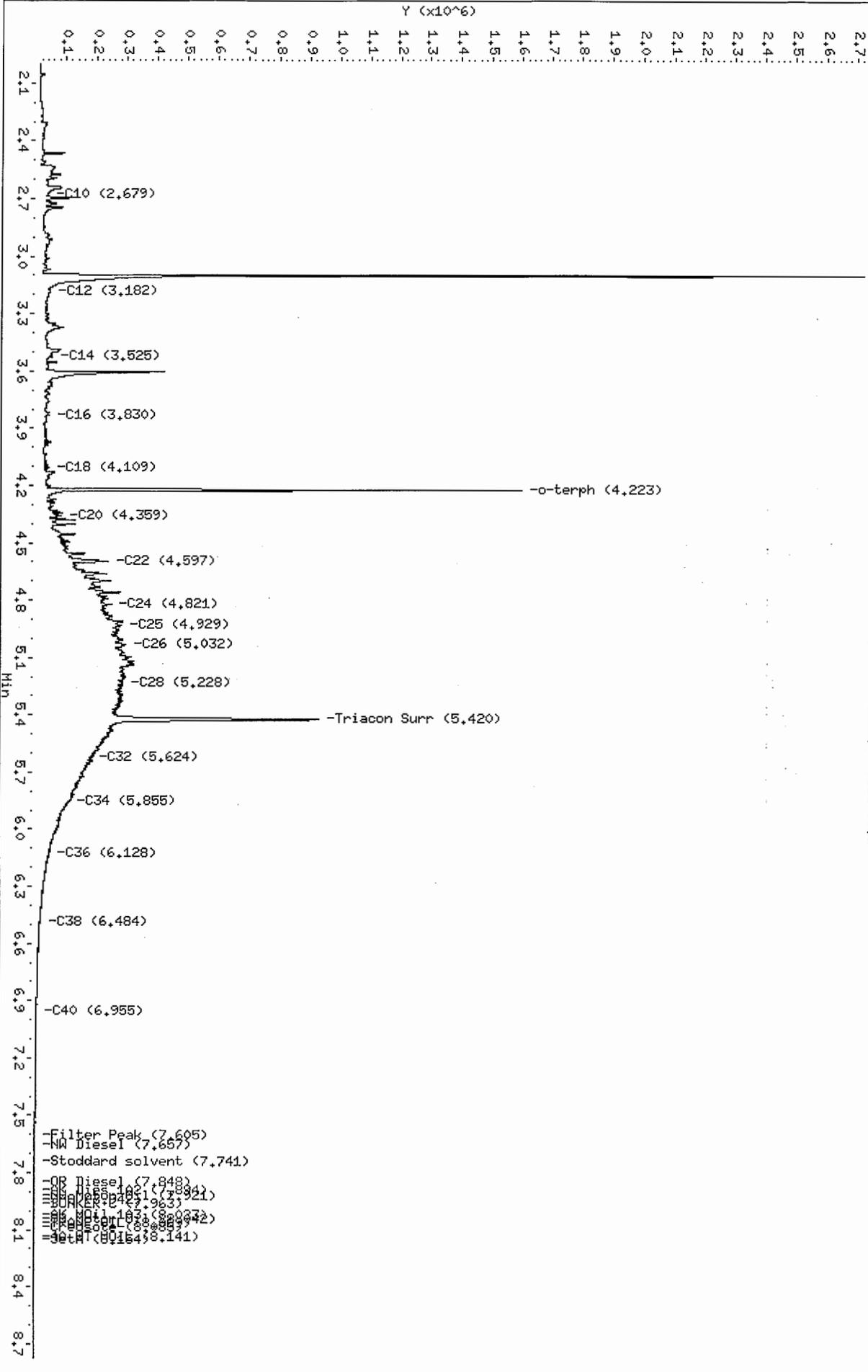
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080313.b/0313a014.d
Method: /chem3/fid3a.i/20080313.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/17/2008
Macro: FID:3A030808

ARI ID: ML66D
Client ID:
Injection: 13-MAR-2008 19:10
Dilution Factor: 50

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.782	0.024	9811	10257	GAS (Tol-C12)	453109	11
C8	1.938	-0.007	7263	5614	DIESEL (C12-C24)	6114423	334
C10	2.666	-0.006	6089	8756	M.OIL (C24-C38)	27123955	2824
C12	3.160	0.006	5757	2754	AK-102 (C10-C25)	6372547	287
C14	3.524	-0.003	6335	6658	AK-103 (C25-C36)	24950841	4212
C16	3.831	-0.006	20009	24160			
C18	4.112	0.001	19563	4281			
C20	4.367	0.001	53059	23729	JET-A (C10-C18)	768992	54
C22	4.604	0.005	152853	122401	MIN.OIL (C24-C38)	27123955	2171
C24	4.820	0.002	281397	89057	MSPRIT (Tol-C12)	453109	29
C25	4.926	0.002	332257	124091	TRANOIL (C12-C28)	15422472	1012
C26	5.028	0.001	361344	64423	KEROSEN (Tol-C18)	1035434	67
C28	5.228	0.000	464510	322381			
C32	5.622	0.003	345138	48032	FUEL OIL(C10-C24)	6301091	12
C34	5.845	0.001	217522	60012			
Filter Peak	7.612	0.002	17796	11931	JP-4 (Tol-C14)	587607	52
C36	6.121	-0.003	144969	57211	CREOSOT (C8-C22)	3145320	302
C38	6.481	0.003	85148	57454	HYDRAUL (C24-C38)	27123955	3048
C40	6.956	0.001	40390	22040	BUNKERC (C10-C38)	33425046	6393

Range Times: NW Diesel(3.204 - 4.868) NW Gas(1.708 - 3.204) NW M.Oil(4.868 - 6.528)
AK102(2.623 - 4.874) AK103(4.874 - 6.174) Jet A(2.623 - 4.160)

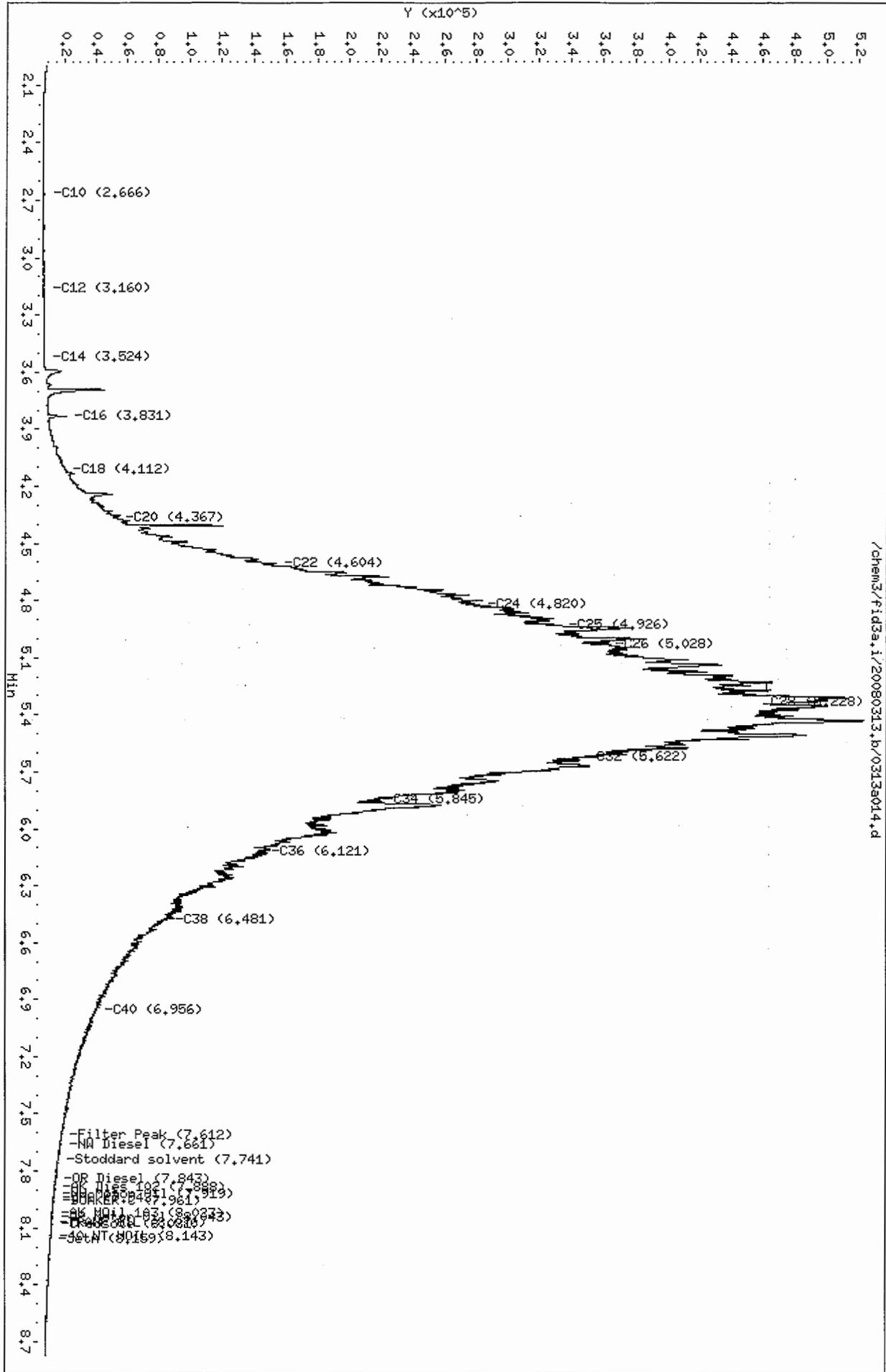
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Surrogate	Area	Amount	%Rec
o-Terphenyl	0	0.0	0.0
Triacotane	0	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a,1/20080313,b/0313a014.d
 Date: 13-HAR-2008 19:10
 Client ID:
 Sample Info: ML66D,50
 Column phase: RTX-1

Instrument: fid3a,1
 Operator: JR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080313.b/0313a015.d
Method: /chem3/fid3a.i/20080313.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/17/2008
Macro: FID:3A030808

ARI ID: ML66E
Client ID:
Injection: 13-MAR-2008 19:26
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.780	0.022	18498	23834	GAS (Tol-C12)	737582	18
C8	1.907	-0.038	34425	65953	DIESEL (C12-C24)	1772709	97
C10	2.667	-0.006	7679	9942	M.OIL (C24-C38)	7244742	754
C12	3.161	0.007	7257	5349	AK-102 (C10-C25)	2052944	92
C14	3.526	-0.002	7602	3480	AK-103 (C25-C36)	6255064	1056
C16	3.840	0.003	9269	13057			
C18	4.110	-0.001	12170	4833			
C20	4.362	-0.003	21411	12211	JET-A (C10-C18)	755593	53
C22	4.600	0.001	37750	47605	MIN.OIL (C24-C38)	7244742	580
C24	4.819	0.002	54256	53073	MSPIRIT (Tol-C12)	737582	47
C25	4.922	-0.002	92776	108277	TRANOIL (C12-C28)	3538520	232
C26	5.025	-0.002	71193	61577	KEROSEN (Tol-C18)	1246644	81
C28	5.223	-0.005	97786	71922			
C32	5.615	-0.003	92187	80741	FUEL OIL(C10-C24)	2019241	4
C34	5.838	-0.005	113490	105956			
Filter Peak	7.609	0.000	17561	17709	JP-4 (Tol-C14)	896944	79
C36	6.125	0.002	58610	35503	CREOSOT (C8-C22)	1818691	174
C38	6.475	-0.003	41204	16303	HYDRAUL (C24-C38)	7244742	814
C40	6.950	-0.005	28306	18161	BUNKERC (C10-C38)	9263983	1772

Range Times: NW Diesel(3.204 - 4.868) NW Gas(1.708 - 3.204) NW M.Oil(4.868 - 6.528)
AK102(2.623 - 4.874) AK103(4.874 - 6.174) Jet A(2.623 - 4.160)

JR 03/17/08

Surrogate	Area	Amount	%Rec
o-Terphenyl	655579	34.9	77.7
Triacontane	592155	38.9	86.4

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080313.b/0313a015.d

Date: 13-MAR-2008 19:26

Client ID:

Sample Info: HL66E

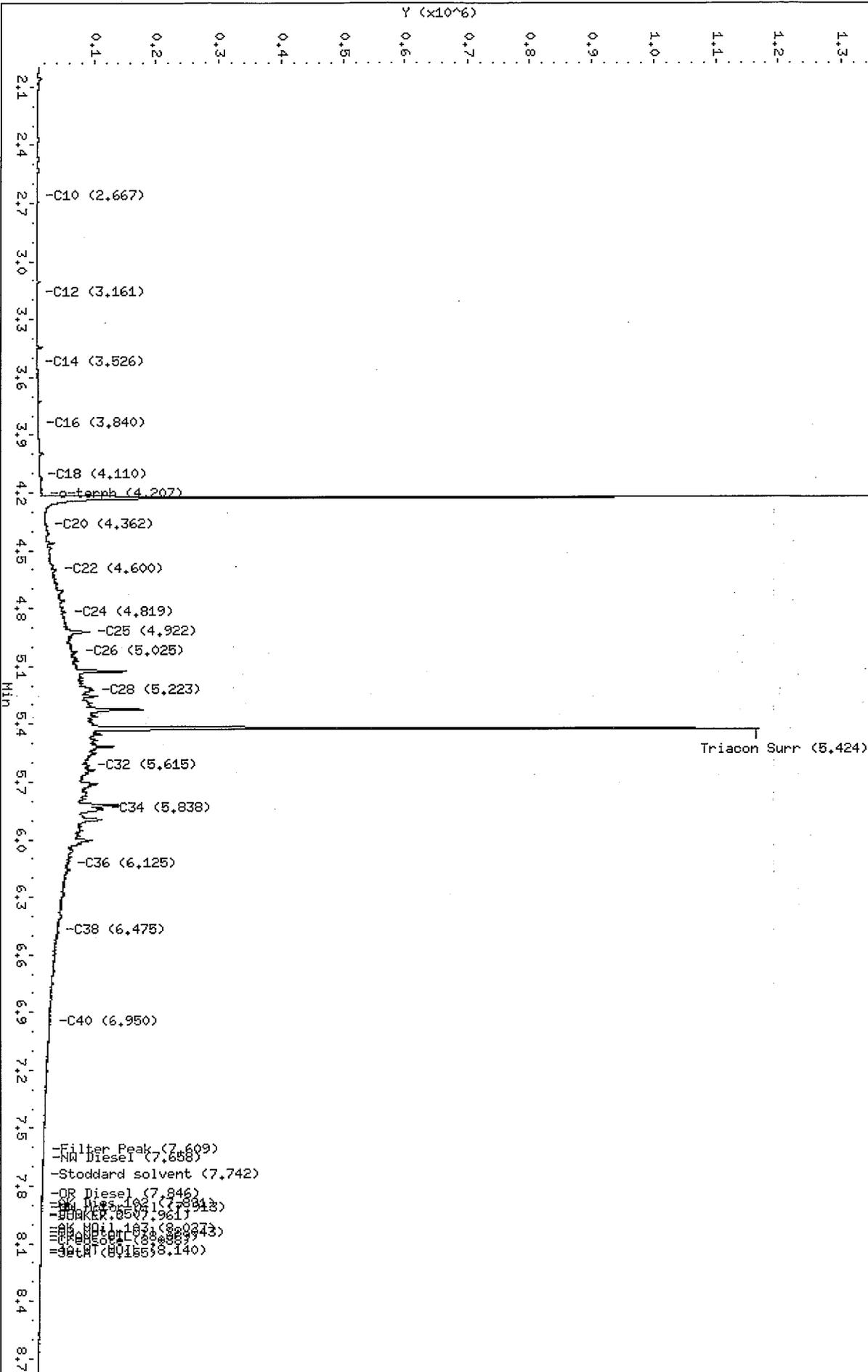
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080313.b/0313a016.d
Method: /chem3/fid3a.i/20080313.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/17/2008
Macro: FID:3A030808

ARI ID: ML66F
Client ID:
Injection: 13-MAR-2008 19:41
Dilution Factor: 50

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.761	0.002	10986	11747	GAS (Tol-C12)	491435	12
C8	1.938	-0.007	7834	1406	DIESEL (C12-C24)	9652680	527
C10	2.666	-0.007	6058	8790	M.OIL (C24-C38)	33664885	3505
C12	3.156	0.002	6025	5629	AK-102 (C10-C25)	9859997	444
C14	3.530	0.002	5804	1159	AK-103 (C25-C36)	31992200	5401
C16	3.846	0.009	5861	4212			
C18	4.113	0.003	7925	2048			
C20	4.361	-0.005	60248	57041	JET-A (C10-C18)	519385	37
C22	4.606	0.006	281387	213312	MIN.OIL (C24-C38)	33664885	2695
C24	4.814	-0.004	510935	199898	MSPIRIT (Tol-C12)	491435	31
C25	4.922	-0.002	603987	216043	TRANOIL (C12-C28)	25007469	1640
C26	5.025	-0.002	664869	445269	KEROSEN (Tol-C18)	803503	52
C28	5.229	0.000	641692	404615			
C32	5.624	0.005	360841	251948	FUEL OIL(C10-C24)	9859997	19
C34	5.849	0.005	211758	25238			
Filter Peak	7.606	-0.004	16125	7599	JP-4 (Tol-C14)	606574	53
C36	6.123	-0.001	121567	42959	CREOSOT (C8-C22)	4068347	390
C38	6.476	-0.003	63131	40861	HYDRAUL (C24-C38)	33664885	3783
C40	6.950	-0.004	32743	9687	BUNKERC (C10-C38)	43524881	8325

Range Times: NW Diesel(3.204 - 4.868) NW Gas(1.708 - 3.204) NW M.Oil(4.868 - 6.528)
AK102(2.623 - 4.874) AK103(4.874 - 6.174) Jet A(2.623 - 4.160)

Surrogate	Area	Amount	%Rec
o-Terphenyl	0	0.0	0.0
Triacontane	0	0.0	0.0

D

JR 03/17/08

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

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Date: 13-MAR-2008 19:41

Client ID:

Sample Info: HL66F,50

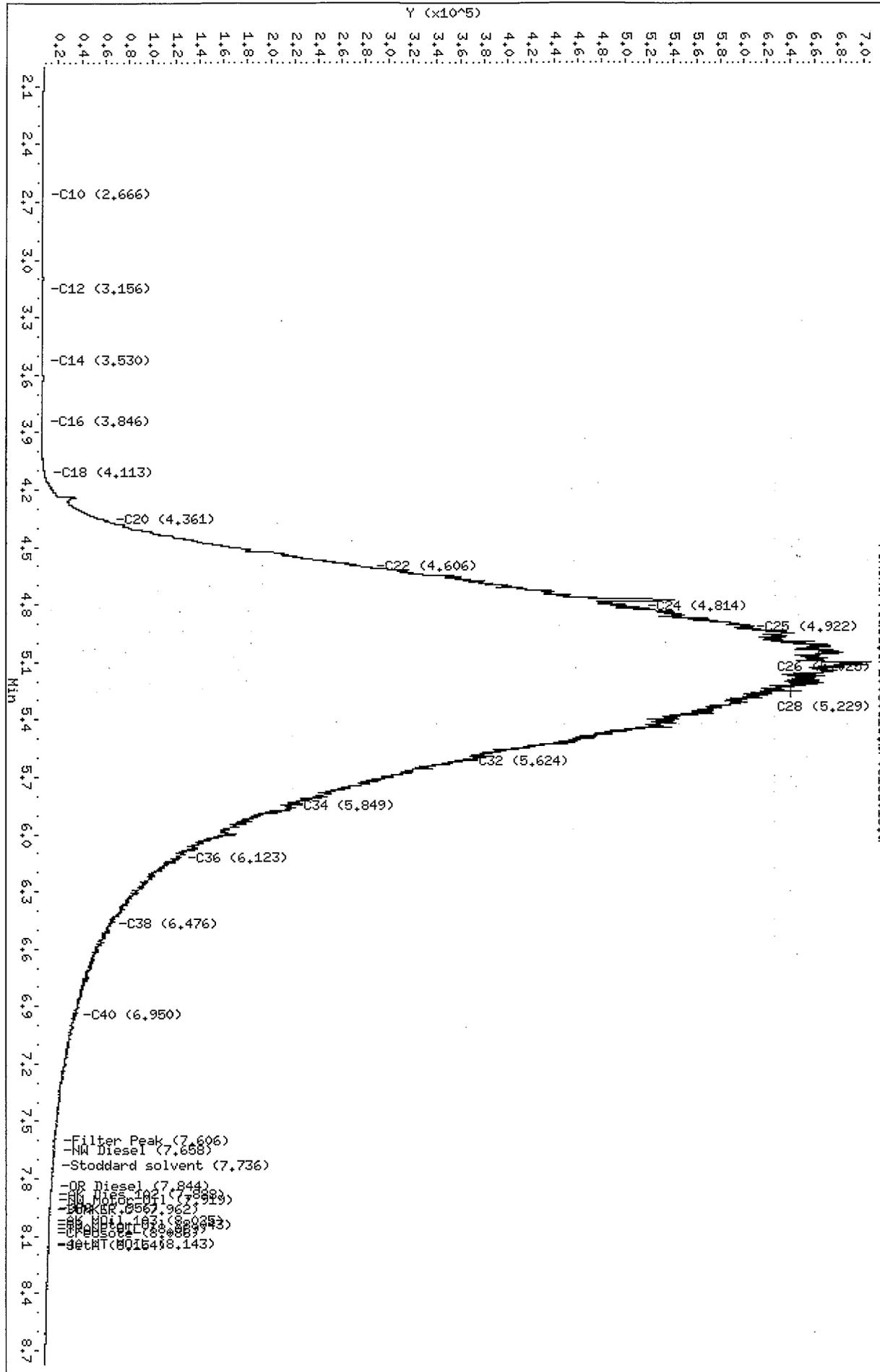
Column phase: RTX-1

Instrument: fid3a,1

Operator: JR

Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080312b.b/0312a070.d ARI ID: ML66G
 Method: /chem3/fid3a.i/20080312b.b/ftphfid3a.m Client ID:
 Instrument: fid3a.i Injection: 12-MAR-2008 23:49
 Operator: JR Dilution Factor: 1
 Report Date: 03/13/2008
 Macro: FID:3A030808

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.769	0.008	46123	83320	GAS (Tol-C12)	946688	23
C8	1.957	0.010	9833	4708	DIESEL (C12-C24)	5228695	285
C10	2.679	0.005	8967	3029	M.OIL (C24-C38)	10945876	1140
C12	3.153	0.001	9999	1398	AK-102 (C10-C25)	5705930	257
C14	3.521	-0.002	15791	11775	AK-103 (C25-C36)	10071236	1700
C16	3.839	0.004	21074	17722			
C18	4.113	0.002	39715	25585			
C20	4.366	-0.001	73168	30614	JET-A (C10-C18)	1431730	101
C22	4.597	-0.004	112903	103280	MIN.OIL (C24-C38)	10945876	876
C24	4.824	0.004	119364	37777	MSPIRIT (Tol-C12)	946688	60
C25	4.932	0.005	150298	32878	TRANOIL (C12-C28)	9010785	591
C26	5.035	0.004	144783	54502	KEROSEN (Tol-C18)	2027434	131
C28	5.232	0.000	172166	47263			
C32	5.623	0.000	145817	25948	FUEL OIL (C10-C24)	5579678	11
C34	5.844	-0.006	110477	88643			
Filter Peak	7.601	-0.003	12033	7388	JP-4 (Tol-C14)	1204851	106
C36	6.128	-0.001	52924	29978	CREOSOT (C8-C22)	4342202	417
C38	6.486	0.000	28508	9560	HYDRAUL (C24-C38)	10945876	1230
C40	6.955	-0.004	18049	22574	BUNKERC (C10-C38)	16525554	3161

DPG/M.O.

Range Times: NW Diesel(3.202 - 4.870) NW Gas(1.711 - 3.202) NW M.Oil(4.870 - 6.536)
 AK102(2.624 - 4.877) AK103(4.877 - 6.179) Jet A(2.624 - 4.161)

Surrogate	Area	Amount	%Rec
o-Terphenyl	815848	43.5	96.6
Triacontane	692902	45.5	101.1

M.R. 3/13/08

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080312b.b/0312a070.d

Date: 12-MAR-2008 23:49

Client ID:

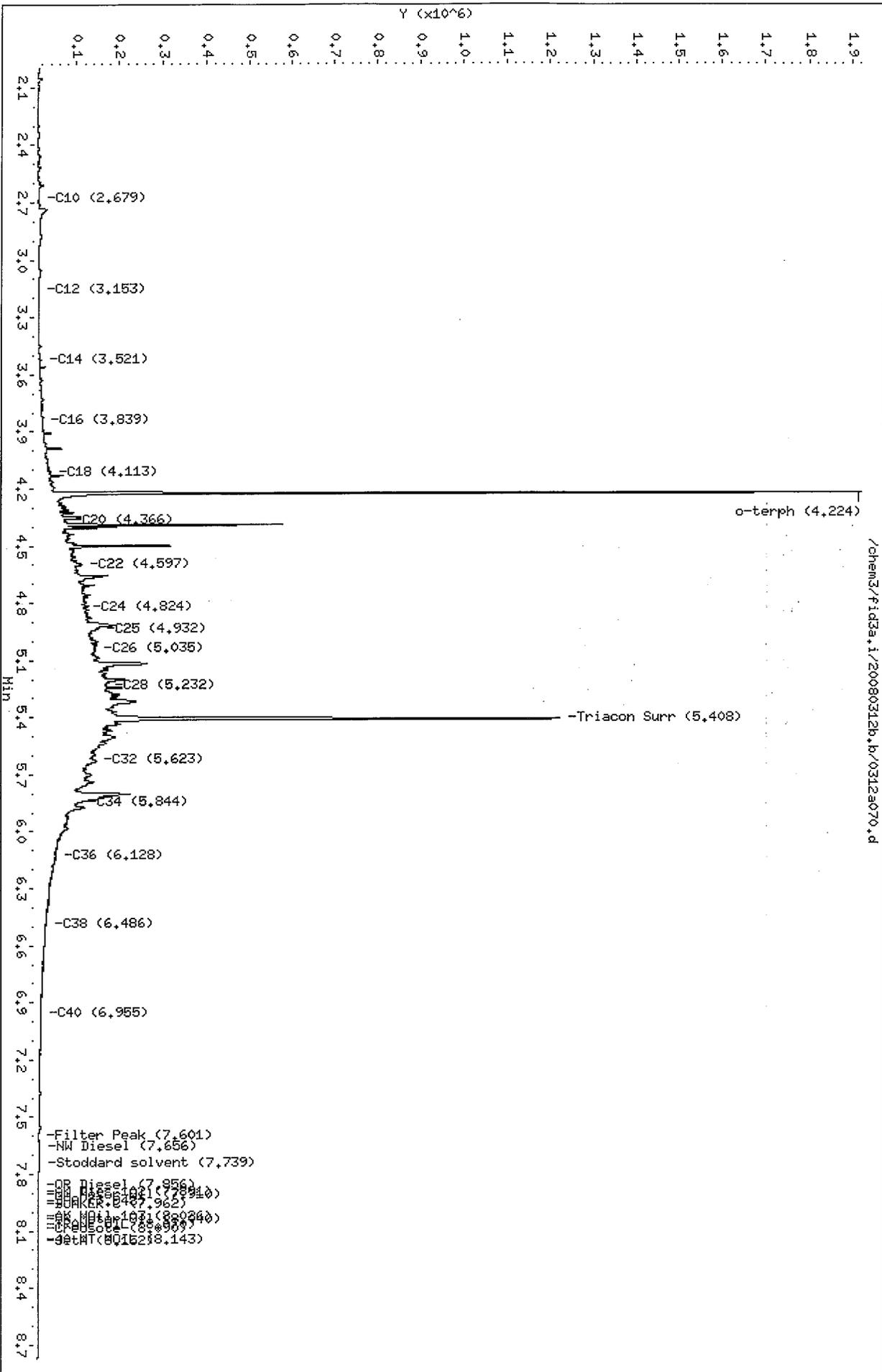
Sample Info: HL666

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MB-031208
METHOD BLANK

Lab Sample ID: MB-031208
LIMS ID: 08-4482
Matrix: Soil
Data Release Authorized:
Reported: 03/24/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: NA
Date Received: NA

Date Extracted: 03/12/08
Date Analyzed: 03/14/08 12:05
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.0 g
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	81.0%
Tetrachlorometaxylene	78.2%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: SS-2-1.5
SAMPLE

Lab Sample ID: ML66B
LIMS ID: 08-4482
Matrix: Soil
Data Release Authorized: 
Reported: 03/24/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Date Extracted: 03/12/08
Date Analyzed: 03/14/08 12:40
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: 15.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	72.2%
Tetrachlorometaxylene	76.5%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: FLY ASH
SAMPLE

Lab Sample ID: ML66C
LIMS ID: 08-4483
Matrix: Soil
Data Release Authorized: 
Reported: 03/24/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Date Extracted: 03/12/08
Date Analyzed: 03/14/08 12:57
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: 63.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	57.8%
Tetrachlorometaxylene	25.0%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LCS-031208
LAB CONTROL

Lab Sample ID: LCS-031208
LIMS ID: 08-4482
Matrix: Soil
Data Release Authorized: *AB*
Reported: 03/24/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: NA
Date Received: NA

Date Extracted: 03/12/08
Date Analyzed: 03/14/08 12:23
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.0 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	125	167	74.9%
Aroclor 1260	129	167	77.2%

PCB Surrogate Recovery

Decachlorobiphenyl	76.0%
Tetrachlorometaxylene	79.2%

Results reported in $\mu\text{g}/\text{kg}$ (ppb)

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MB-031708
METHOD BLANK

Lab Sample ID: MB-031708
LIMS ID: 08-4481
Matrix: Soil
Data Release Authorized:
Reported: 03/24/08 

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: NA
Date Received: NA

Date Extracted: 03/17/08
Date Analyzed: 03/19/08 11:19
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.0 g
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	86.0%
Tetrachlorometaxylene	79.2%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: B-3-14
SAMPLE

Lab Sample ID: ML66A
LIMS ID: 08-4481
Matrix: Soil
Data Release Authorized:
Reported: 03/24/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Date Extracted: 03/17/08
Date Analyzed: 03/19/08 12:11
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: 7.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	92.0%
Tetrachlorometaxylene	83.5%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: B-3-8.5
SAMPLE

Lab Sample ID: ML66D
LIMS ID: 08-4484
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 03/24/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Date Extracted: 03/17/08
Date Analyzed: 03/19/08 12:28
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: 4.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	107%
Tetrachlorometaxylene	78.2%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: GP-3-12
SAMPLE

Lab Sample ID: ML66E
LIMS ID: 08-4485
Matrix: Soil
Data Release Authorized:
Reported: 03/24/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Date Extracted: 03/17/08
Date Analyzed: 03/19/08 12:45
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: 9.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	94.5%
Tetrachlorometaxylene	75.5%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: SS-1-2
SAMPLE

Lab Sample ID: ML66F
LIMS ID: 08-4486
Matrix: Soil
Data Release Authorized: 
Reported: 03/24/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Date Extracted: 03/17/08
Date Analyzed: 03/19/08 13:02
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: 5.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	83.2%
Tetrachlorometaxylene	85.5%

ORGANICS ANALYSIS DATA SHEET

PCB by GC/ECD Method SW8082

Page 1 of 1

Sample ID: B-2-13

SAMPLE

Lab Sample ID: ML66G

LIMS ID: 08-4487

Matrix: Soil

Data Release Authorized: 

Reported: 03/24/08

QC Report No: ML66-Parametrix, Inc.

Project: Yakima

555-5753-001-02-022

Date Sampled: 03/03/08

Date Received: 03/05/08

Date Extracted: 03/17/08

Date Analyzed: 03/19/08 13:19

Instrument/Analyst: ECD5/PK

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 12.1 g-dry-wt

Final Extract Volume: 4.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: 10.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	86.2%
Tetrachlorometaxylene	77.5%

ORGANICS ANALYSIS DATA SHEET

PCB by GC/ECD Method SW8082

Page 1 of 1

Sample ID: LCS-031708

LCS/LCSD

Lab Sample ID: LCS-031708

LIMS ID: 08-4481

Matrix: Soil

Data Release Authorized: *B*

Reported: 03/24/08

QC Report No: ML66-Parametrix, Inc.

Project: Yakima

555-5753-001-02-022

Date Sampled: NA

Date Received: NA

Date Extracted LCS/LCSD: 03/17/08

Sample Amount LCS: 12.0 g-dry-wt

LCSD: 12.0 g-dry-wt

Date Analyzed LCS: 03/19/08 11:36

Final Extract Volume LCS: 4.0 mL

LCSD: 03/19/08 11:54

LCSD: 4.0 mL

Instrument/Analyst LCS: ECD5/PK

Dilution Factor LCS: 1.00

LCSD: ECD5/PK

LCSD: 1.00

GPC Cleanup: No

Silica Gel: No

Sulfur Cleanup: Yes

Percent Moisture: NA

Acid Cleanup: Yes

Florisil Cleanup: No

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	126	167	75.6%	114	167	68.4%	10.0%
Aroclor 1260	156	167	93.6%	147	167	88.2%	5.9%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	89.2%	83.5%
Tetrachlorometaxylene	81.5%	73.5%

Results reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

METHOD BLANK RESULTS-CONVENTIONALS
ML66-Parametrix, Inc.



Matrix: Soil
Data Release Authorized *[Signature]*
Reported: 03/21/08

Project: Yakima
Event: 555-5753-001-02-022
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	03/17/08	Percent	< 0.01 U
Total Organic Carbon	03/19/08	Percent	< 0.020 U

SAMPLE RESULTS-CONVENTIONALS
ML66-Parametrix, Inc.



Matrix: Soil
Data Release Authorized
Reported: 03/21/08

Project: Yakima
Event: 555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Client ID: SS-2-1.5
ARI ID: 08-4482 ML66B

Analyte	Date	Method	Units	RL	Sample
pH	03/12/08 031208#1	SW9045	std units	0.01	6.67

RL Analytical reporting limit
U Undetected at reported detection limit

Results reported on a fresh weight basis
pH determined on 1:1 soil:D.I. water extracts.

SAMPLE RESULTS-CONVENTIONALS
ML66-Parametrix, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 03/21/08

Project: Yakima
Event: 555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Client ID: FLY ASH
ARI ID: 08-4483 ML66C

Analyte	Date	Method	Units	RL	Sample
pH	03/12/08 031208#1	SW9045	std units	0.01	8.21

RL Analytical reporting limit
U Undetected at reported detection limit

Results reported on a fresh weight basis
pH determined on 1:1 soil:D.I. water extracts.

SAMPLE RESULTS-CONVENTIONALS
ML66-Parametrix, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 03/21/08

Project: Yakima
Event: 555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Client ID: GP-3-12
ARI ID: 08-4485 ML66E

Analyte	Date	Method	Units	RL	Sample
Total Solids	03/17/08 031708#1	EPA 160.3	Percent	0.01	90.80
Total Organic Carbon	03/19/08 031908#1	Plumb,1981	Percent	0.020	0.729

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
ML66-Parametrix, Inc.



Matrix: Soil
Data Release Authorized
Reported: 03/21/08

A handwritten signature in black ink, appearing to be 'JL' or similar, written over the 'Data Release Authorized' text.

Project: Yakima
Event: 555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Analyte	Date	Units	Sample	Replicate (s)	RPD/RSD
ARI ID: ML66B Client ID: SS-2-1.5					
pH	03/12/08	std units	6.67	6.71	0.04
ARI ID: ML66E Client ID: GP-3-12					
Total Solids	03/17/08	Percent	90.80	90.80 89.70	0.7%
Total Organic Carbon	03/19/08	Percent	0.729	0.703 0.675	3.8%

pH is evaluated as the Absolute Difference between the values rather than Relative Percent Difference

MS/MSD RESULTS-CONVENTIONALS
ML66-Parametrix, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 03/21/08

Project: Yakima
Event: 555-5753-001-02-022
Date Sampled: 03/03/08
Date Received: 03/05/08

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: ML66E Client ID: GP-3-12						
Total Organic Carbon	03/19/08	Percent	0.729	1.49	0.741	102.7%

LAB CONTROL RESULTS-CONVENTIONALS
ML66-Parametrix, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 03/21/08

Project: Yakima
Event: 555-5753-001-02-022
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
pH	03/12/08	std units	7.03	7.00	0.03
Total Organic Carbon	03/19/08	Percent	0.476	0.500	95.2%

pH is evaluated as the Absolute Difference between the values rather than Percent Recovery.

STANDARD REFERENCE RESULTS-CONVENTIONALS
ML66-Parametrix, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 03/21/08

Project: Yakima
Event: 555-5753-001-02-022
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST #8704	03/19/08	Percent	3.60	3.35	107.5%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

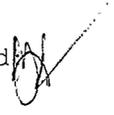
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: ML66MB

LIMS ID: 08-4482

Matrix: Soil

Data Release Authorized: 

Reported: 03/19/08

QC Report No: ML66-Parametrix, Inc.

Project: Yakima

555-5753-001-02-022

Date Sampled: NA

Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/07/08	6010B	03/17/08	7440-38-2	Arsenic	5	5	U
3050B	03/07/08	6010B	03/17/08	7440-39-3	Barium	0.3	0.3	U
3050B	03/07/08	6010B	03/17/08	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/07/08	6010B	03/17/08	7440-47-3	Chromium	0.5	0.5	U
3050B	03/07/08	6010B	03/17/08	7439-92-1	Lead	2	2	U
CLP	03/07/08	7471A	03/12/08	7439-97-6	Mercury	0.05	0.05	U
3050B	03/07/08	6010B	03/17/08	7782-49-2	Selenium	5	5	U
3050B	03/07/08	6010B	03/17/08	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

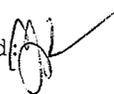
Page 1 of 1

Sample ID: SS-2-1.5
SAMPLE

Lab Sample ID: ML66B

LIMS ID: 08-4482

Matrix: Soil

Data Release Authorized: 

Reported: 03/19/08

QC Report No: ML66-Parametrix, Inc.

Project: Yakima

555-5753-001-02-022

Date Sampled: 03/03/08

Date Received: 03/05/08

Percent Total Solids: 84.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/07/08	6010B	03/18/08	7440-38-2	Arsenic	10	10	U
3050B	03/07/08	6010B	03/18/08	7440-39-3	Barium	0.9	142	
3050B	03/07/08	6010B	03/18/08	7440-43-9	Cadmium	0.6	0.6	U
3050B	03/07/08	6010B	03/18/08	7440-47-3	Chromium	1	19	
3050B	03/07/08	6010B	03/18/08	7439-92-1	Lead	6	6	U
CLP	03/07/08	7471A	03/12/08	7439-97-6	Mercury	0.05	0.07	
3050B	03/07/08	6010B	03/18/08	7782-49-2	Selenium	10	10	U
3050B	03/07/08	6010B	03/18/08	7440-22-4	Silver	0.9	0.9	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: FLY ASH

SAMPLE

Lab Sample ID: ML66C

LIMS ID: 08-4483

Matrix: Soil

Data Release Authorized: 

Reported: 03/19/08

QC Report No: ML66-Parametrix, Inc.

Project: Yakima

555-5753-001-02-022

Date Sampled: 03/03/08

Date Received: 03/05/08

Percent Total Solids: 35.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/07/08	6010B	03/18/08	7440-38-2	Arsenic	10	10	U
3050B	03/07/08	6010B	03/18/08	7440-39-3	Barium	0.8	670	
3050B	03/07/08	6010B	03/18/08	7440-43-9	Cadmium	0.6	2.6	
3050B	03/07/08	6010B	03/18/08	7440-47-3	Chromium	1	17	
3050B	03/07/08	6010B	03/18/08	7439-92-1	Lead	6	21	
CLP	03/07/08	7471A	03/12/08	7439-97-6	Mercury	0.1	0.1	U
3050B	03/07/08	6010B	03/18/08	7782-49-2	Selenium	10	10	U
3050B	03/07/08	6010B	03/18/08	7440-22-4	Silver	0.8	0.8	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

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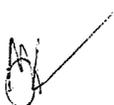
Sample ID: SS-1-2

SAMPLE

Lab Sample ID: ML66F

LIMS ID: 08-4486

Matrix: Soil

Data Release Authorized 

Reported: 03/19/08

QC Report No: ML66-Parametrix, Inc.

Project: Yakima

555-5753-001-02-022

Date Sampled: 03/03/08

Date Received: 03/05/08

Percent Total Solids: 92.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/07/08	6010B	03/18/08	7440-38-2	Arsenic	10	10	U
3050B	03/07/08	6010B	03/18/08	7440-39-3	Barium	0.8	76.6	
3050B	03/07/08	6010B	03/18/08	7440-43-9	Cadmium	0.5	0.5	U
3050B	03/07/08	6010B	03/18/08	7440-47-3	Chromium	1	20	
3050B	03/07/08	6010B	03/18/08	7439-92-1	Lead	5	5	U
CLP	03/07/08	7471A	03/12/08	7439-97-6	Mercury	0.05	0.05	U
3050B	03/07/08	6010B	03/18/08	7782-49-2	Selenium	10	10	U
3050B	03/07/08	6010B	03/18/08	7440-22-4	Silver	0.8	0.8	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: ML66LCS
LIMS ID: 08-4482
Matrix: Soil
Data Release Authorized: 
Reported: 03/19/08

QC Report No: ML66-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	203	200	102%	
Barium	6010B	194	200	97.0%	
Cadmium	6010B	50.5	50.0	101%	
Chromium	6010B	49.6	50.0	99.2%	
Lead	6010B	194	200	97.0%	
Mercury	7471A	1.08	1.00	108%	
Selenium	6010B	200	200	100%	
Silver	6010B	47.3	50.0	94.6%	

Reported in mg/kg-dry

N-Control limit not met
Control Limits: 80-120%



Analytical Resources, Incorporated
Analytical Chemists and Consultants

25 March 2008

Annika Deutsch
Parametrix, Inc.
411 108th Avenue NE
Suite 1800
Bellevue, WA 98004-5571

RE: Project: Yakima
ARI Job No. ML68

Dear Annika:

Please find enclosed the original Chain of Custody (COC) records and the final results for the samples from the project referenced above. Analytical Resources, Inc. received eight soil samples, one sediment sample and one trip blank on March 6, 2008. The samples were received intact and there were no discrepancies in the paperwork. The samples were analyzed for VOAs, BETX/NWTPH-G, SVOAs, PCBs, NWTPH-Dx, total metals and pH as requested.

The areas for the internal standards (ISs) were not within control limits following the initial VOA analyses of these samples. The samples were re-analyzed. The areas for the ISs were not within control limits for the re-analyses. It was concluded that the sample matrices were the cause of the poor IS recoveries. No further corrective actions were taken. The results for the original analyses only have been submitted.

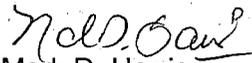
The percent recoveries for the surrogate, 2-fluorophenol, were low following the initial SVOA analyses of the samples that were extracted on 3/17/08 and analyzed on 3/20. Since one acid surrogate is permitted outside of control limits, no corrective actions were taken.

There were no further analytical complications noted.

As always, a copy of these reports and all raw data will remain on file at ARI. If you have questions, or require further information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.


Mark D. Harris
Project Manager
206-695-6210
<markh@arilabs.com>

Enclosures

cc: File ML68

MDH/mdh

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: **ML68**
 Turn-around Requested: **Standard**
 ARI Client Company: **Paramethix**
 Phone: **425-458-6872**
 Client Contact: **Annika Deutsch**
 Client Project Name: **Yakima**
 Client Project #: **55-5758-001-02-02**
 Samplers: **A. Deutsch / Inger Sand**

Page: **1** of **1**
 Date: **3/4/08**
 No. of Coolers: **2**
 Ice Present? **Y**
 Cooler Temps: **5° 2.8°**

Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)



Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested						Notes/Comments	
					TPH-IX	TPH-IX	VOCs	PCBs	VOCs	Metals		PH
B-5-10-5	3/4/08	1000	S017	8	X	X	X	X	X			
B-9-12	1/4/5	1415	↓	5	X	X	X	X	X			
B-9-7	1/4/0	1410	↓	5	X	X	X	X	X			
Boiler Drain	1/4/5	1455	sediment	6	X	X	X	X	X			
B-8-14	1/3/25	soil	↓	5	X	X	X	X	X			
B-7-14	1/1/45	↓	↓	5	X	X	X	X	X			
B-4-13	0/9/00	↓	↓	9	X	X	X	X	X			
B-4D-13	1/2/00	↓	↓	9	X	X	X	X	X			
B-6-14	1/0/40	↓	↓	5	X	X	X	X	X			
Trip Blank					X	X	X	X	X			
Comments/Special Instructions	Relinquished by: (Signature) Anniko Deutsch Printed Name: Anniko Deutsch Company: Paramethix Date & Time: 3/5/08 7:30				Relinquished by: (Signature) Bob Conyers Printed Name: Bob Conyers Company: ARI Date & Time: 3/6/08 0000				Received by: (Signature) Printed Name: Company: Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

ARI Data Reporting Qualifiers

Effective 11/22/04

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- NR Spiked compound recovery is not reported due to chromatographic interference
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the limit
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2Sample ID: MB-031008
METHOD BLANKLab Sample ID: MB-031008
LIMS ID: 08-4498
Matrix: Soil
Data Release Authorized: 
Reported: 03/11/08QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: NA
Date Received: NAInstrument/Analyst: FINN1/JZ
Date Analyzed: 03/10/08 14:01Sample Amount: 5.00 g-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: MB-031008
METHOD BLANK

Lab Sample ID: MB-031008
LIMS ID: 08-4498
Matrix: Soil
Date Analyzed: 03/10/08 14:01

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	97.5%
Bromofluorobenzene	91.5%
d4-1,2-Dichlorobenzene	97.2%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2

Sample ID: B-4-13
SAMPLE

Lab Sample ID: ML68G

QC Report No: ML68-Parametrix, Inc.

LIMS ID: 08-4498

Project: Yakima

Matrix: Soil

555-5753-001-02-022

Data Release Authorized: 

Date Sampled: 03/04/08

Reported: 03/11/08

Date Received: 03/06/08

Instrument/Analyst: FINN1/JZ

Sample Amount: 1.91 g-dry-wt

Date Analyzed: 03/10/08 16:59

Purge Volume: 5.0 mL

Moisture: 52.7%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	2.6	< 2.6	U
74-83-9	Bromomethane	2.6	< 2.6	U
75-01-4	Vinyl Chloride	2.6	< 2.6	U
75-00-3	Chloroethane	2.6	< 2.6	U
75-09-2	Methylene Chloride	5.2	< 5.2	U
67-64-1	Acetone	13	61	
75-15-0	Carbon Disulfide	2.6	< 2.6	U
75-35-4	1,1-Dichloroethene	2.6	< 2.6	U
75-34-3	1,1-Dichloroethane	2.6	< 2.6	U
156-60-5	trans-1,2-Dichloroethene	2.6	< 2.6	U
156-59-2	cis-1,2-Dichloroethene	2.6	< 2.6	U
67-66-3	Chloroform	2.6	< 2.6	U
107-06-2	1,2-Dichloroethane	2.6	< 2.6	U
78-93-3	2-Butanone	13	< 13	U
71-55-6	1,1,1-Trichloroethane	2.6	< 2.6	U
56-23-5	Carbon Tetrachloride	2.6	< 2.6	U
108-05-4	Vinyl Acetate	13	< 13	U
75-27-4	Bromodichloromethane	2.6	< 2.6	U
78-87-5	1,2-Dichloropropane	2.6	< 2.6	U
10061-01-5	cis-1,3-Dichloropropene	2.6	< 2.6	U
79-01-6	Trichloroethene	2.6	< 2.6	U
124-48-1	Dibromochloromethane	2.6	< 2.6	U
79-00-5	1,1,2-Trichloroethane	2.6	< 2.6	U
71-43-2	Benzene	2.6	< 2.6	U
10061-02-6	trans-1,3-Dichloropropene	2.6	< 2.6	U
75-25-2	Bromoform	2.6	< 2.6	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	13	< 13	U
591-78-6	2-Hexanone	13	< 13	U
127-18-4	Tetrachloroethene	2.6	< 2.6	U
79-34-5	1,1,2,2-Tetrachloroethane	2.6	< 2.6	U
108-88-3	Toluene	2.6	< 2.6	U
108-90-7	Chlorobenzene	2.6	< 2.6	U
100-41-4	Ethylbenzene	2.6	< 2.6	U
100-42-5	Styrene	2.6	< 2.6	U
75-69-4	Trichlorofluoromethane	2.6	< 2.6	U
108-38-3	m,p-Xylene	2.6	< 2.6	U
95-47-6	o-Xylene	2.6	< 2.6	U
95-50-1	1,2-Dichlorobenzene	2.6	< 2.6	U
106-46-7	1,4-Dichlorobenzene	2.6	< 2.6	U
74-88-4	Methyl Iodide	2.6	< 2.6	U
107-13-1	Acrylonitrile	13	< 13	U
74-95-3	Dibromomethane	2.6	< 2.6	U
630-20-6	1,1,1,2-Tetrachloroethane	2.6	< 2.6	U
96-12-8	1,2-Dibromo-3-chloropropane	13	< 13	U
96-18-4	1,2,3-Trichloropropane	5.2	< 5.2	U
110-57-6	trans-1,4-Dichloro-2-butene	13	< 13	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: B-4-13
SAMPLE

Lab Sample ID: ML68G
LIMS ID: 08-4498
Matrix: Soil
Date Analyzed: 03/10/08 16:59

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	2.6	< 2.6	U
74-97-5	Bromochloromethane	2.6	< 2.6	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	75.6%
d8-Toluene	96.4%
Bromofluorobenzene	72.8%
d4-1,2-Dichlorobenzene	111%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2

Sample ID: B-4D-13
SAMPLE

Lab Sample ID: ML68H

QC Report No: ML68-Parametrix, Inc.

LIMS ID: 08-4499

Project: Yakima

Matrix: Soil

555-5753-001-02-022

Data Release Authorized: 

Date Sampled: 03/04/08

Reported: 03/11/08

Date Received: 03/06/08

Instrument/Analyst: FINN1/JZ

Sample Amount: 2.88 g-dry-wt

Date Analyzed: 03/10/08 16:24

Purge Volume: 5.0 mL

Moisture: 42.4%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.7	< 1.7	U
74-83-9	Bromomethane	1.7	< 1.7	U
75-01-4	Vinyl Chloride	1.7	< 1.7	U
75-00-3	Chloroethane	1.7	< 1.7	U
75-09-2	Methylene Chloride	3.5	< 3.5	U
67-64-1	Acetone	8.7	63	
75-15-0	Carbon Disulfide	1.7	< 1.7	U
75-35-4	1,1-Dichloroethene	1.7	< 1.7	U
75-34-3	1,1-Dichloroethane	1.7	< 1.7	U
156-60-5	trans-1,2-Dichloroethene	1.7	< 1.7	U
156-59-2	cis-1,2-Dichloroethene	1.7	< 1.7	U
67-66-3	Chloroform	1.7	< 1.7	U
107-06-2	1,2-Dichloroethane	1.7	< 1.7	U
78-93-3	2-Butanone	8.7	< 8.7	U
71-55-6	1,1,1-Trichloroethane	1.7	< 1.7	U
56-23-5	Carbon Tetrachloride	1.7	< 1.7	U
108-05-4	Vinyl Acetate	8.7	< 8.7	U
75-27-4	Bromodichloromethane	1.7	< 1.7	U
78-87-5	1,2-Dichloropropane	1.7	< 1.7	U
10061-01-5	cis-1,3-Dichloropropene	1.7	< 1.7	U
79-01-6	Trichloroethene	1.7	< 1.7	U
124-48-1	Dibromochloromethane	1.7	< 1.7	U
79-00-5	1,1,2-Trichloroethane	1.7	< 1.7	U
71-43-2	Benzene	1.7	< 1.7	U
10061-02-6	trans-1,3-Dichloropropene	1.7	< 1.7	U
75-25-2	Bromoform	1.7	< 1.7	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	8.7	< 8.7	U
591-78-6	2-Hexanone	8.7	< 8.7	U
127-18-4	Tetrachloroethene	1.7	< 1.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1.7	< 1.7	U
108-88-3	Toluene	1.7	< 1.7	U
108-90-7	Chlorobenzene	1.7	< 1.7	U
100-41-4	Ethylbenzene	1.7	< 1.7	U
100-42-5	Styrene	1.7	< 1.7	U
75-69-4	Trichlorofluoromethane	1.7	< 1.7	U
108-38-3	m,p-Xylene	1.7	< 1.7	U
95-47-6	o-Xylene	1.7	< 1.7	U
95-50-1	1,2-Dichlorobenzene	1.7	< 1.7	U
106-46-7	1,4-Dichlorobenzene	1.7	< 1.7	U
74-88-4	Methyl Iodide	1.7	< 1.7	U
107-13-1	Acrylonitrile	8.7	< 8.7	U
74-95-3	Dibromomethane	1.7	< 1.7	U
630-20-6	1,1,1,2-Tetrachloroethane	1.7	< 1.7	U
96-12-8	1,2-Dibromo-3-chloropropane	8.7	< 8.7	U
96-18-4	1,2,3-Trichloropropane	3.5	< 3.5	U
110-57-6	trans-1,4-Dichloro-2-butene	8.7	< 8.7	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: B-4D-13
SAMPLE

Lab Sample ID: ML68H
LIMS ID: 08-4499
Matrix: Soil
Date Analyzed: 03/10/08 16:24

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	1.7	< 1.7	U
74-97-5	Bromochloromethane	1.7	< 1.7	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	128%
d8-Toluene	97.6%
Bromofluorobenzene	76.9%
d4-1,2-Dichlorobenzene	104%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2Sample ID: TRIP BLANK
SAMPLE

Lab Sample ID: ML68J

QC Report No: ML68-Parametrix, Inc.

LIMS ID: 08-4501

Project: Yakima

Matrix: Water

555-5753-001-02-022

Data Release Authorized:

Date Sampled: 03/04/08

Reported: 03/11/08 

Date Received: 03/06/08

Instrument/Analyst: FINN1/JZ

Sample Amount: 5.00 mL

Date Analyzed: 03/10/08 15:16

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: TRIP BLANK
SAMPLE

Lab Sample ID: ML68J
LIMS ID: 08-4501
Matrix: Water
Date Analyzed: 03/10/08 15:16

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result	Q
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Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	111%
d8-Toluene	101%
Bromofluorobenzene	95.5%
d4-1,2-Dichlorobenzene	98.4%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B

Sample ID: LCS-031008

Page 1 of 2

LAB CONTROL SAMPLE

Lab Sample ID: LCS-031008

QC Report No: ML68-Parametrix, Inc.

LIMS ID: 08-4498

Project: Yakima

Matrix: Soil

555-5753-001-02-022

Data Release Authorized: *[Signature]*

Date Sampled: NA

Reported: 03/11/08

Date Received: NA

Instrument/Analyst LCS: FINN1/JZ

Sample Amount LCS: 5.00 g-dry-wt

LCSD: FINN1/JZ

LCSD: 5.00 g-dry-wt

Date Analyzed LCS: 03/10/08 12:30

Purge Volume LCS: 5.0 mL

LCSD: 03/10/08 13:29

LCSD: 5.0 mL

Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	46.6	50.0	93.2%	44.7	50.0	89.4%	4.2%
Bromomethane	52.3	50.0	105%	48.9	50.0	97.8%	6.7%
Vinyl Chloride	55.6	50.0	111%	51.3	50.0	103%	8.0%
Chloroethane	57.2	50.0	114%	54.4	50.0	109%	5.0%
Methylene Chloride	54.9	50.0	110%	52.5	50.0	105%	4.5%
Acetone	280	250	112%	266	250	106%	5.1%
Carbon Disulfide	56.1	50.0	112%	53.3	50.0	107%	5.1%
1,1-Dichloroethene	57.0	50.0	114%	53.0	50.0	106%	7.3%
1,1-Dichloroethane	55.6	50.0	111%	53.6	50.0	107%	3.7%
trans-1,2-Dichloroethene	54.3	50.0	109%	51.8	50.0	104%	4.7%
cis-1,2-Dichloroethene	52.6	50.0	105%	50.5	50.0	101%	4.1%
Chloroform	53.5	50.0	107%	51.7	50.0	103%	3.4%
1,2-Dichloroethane	52.1	50.0	104%	51.0	50.0	102%	2.1%
2-Butanone	253	250	101%	252	250	101%	0.4%
1,1,1-Trichloroethane	54.2	50.0	108%	52.4	50.0	105%	3.4%
Carbon Tetrachloride	55.6	50.0	111%	53.4	50.0	107%	4.0%
Vinyl Acetate	54.9	50.0	110%	53.8	50.0	108%	2.0%
Bromodichloromethane	58.1	50.0	116%	55.5	50.0	111%	4.6%
1,2-Dichloropropane	52.3	50.0	105%	51.9	50.0	104%	0.8%
cis-1,3-Dichloropropene	47.2	50.0	94.4%	46.4	50.0	92.8%	1.7%
Trichloroethene	53.6	50.0	107%	52.0	50.0	104%	3.0%
Dibromochloromethane	44.9	50.0	89.8%	43.8	50.0	87.6%	2.5%
1,1,2-Trichloroethane	54.1	50.0	108%	51.7	50.0	103%	4.5%
Benzene	56.5	50.0	113%	54.8	50.0	110%	3.1%
trans-1,3-Dichloropropene	47.1	50.0	94.2%	45.7	50.0	91.4%	3.0%
Bromoform	44.8	50.0	89.6%	43.7	50.0	87.4%	2.5%
4-Methyl-2-Pentanone (MIBK)	233	250	93.2%	232	250	92.8%	0.4%
2-Hexanone	286	250	114%	280	250	112%	2.1%
Tetrachloroethene	54.3	50.0	109%	51.7	50.0	103%	4.9%
1,1,2,2-Tetrachloroethane	52.1	50.0	104%	52.0	50.0	104%	0.2%
Toluene	55.2	50.0	110%	51.6	50.0	103%	6.7%
Chlorobenzene	54.9	50.0	110%	51.3	50.0	103%	6.8%
Ethylbenzene	59.8	50.0	120%	56.9	50.0	114%	5.0%
Styrene	52.6	50.0	105%	50.6	50.0	101%	3.9%
Trichlorofluoromethane	52.5	50.0	105%	50.0	50.0	100%	4.9%
m,p-Xylene	119	100	119%	113	100	113%	5.2%
o-Xylene	46.8	50.0	93.6%	44.0	50.0	88.0%	6.2%
1,2-Dichlorobenzene	50.4	50.0	101%	49.9	50.0	99.8%	1.0%
1,4-Dichlorobenzene	53.2	50.0	106%	54.3	50.0	109%	2.0%
Methyl Iodide	59.8	50.0	120%	57.0	50.0	114%	4.8%
Acrylonitrile	56.1	50.0	112%	53.2	50.0	106%	5.3%
Dibromomethane	51.6	50.0	103%	51.3	50.0	103%	0.6%
1,1,1,2-Tetrachloroethane	44.8	50.0	89.6%	42.3	50.0	84.6%	5.7%
1,2-Dibromo-3-chloropropane	50.1	50.0	100%	50.1	50.0	100%	0.0%
1,2,3-Trichloropropane	49.8	50.0	99.6%	48.6	50.0	97.2%	2.4%
trans-1,4-Dichloro-2-butene	53.4	50.0	107%	53.3	50.0	107%	0.2%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: LCS-031008
LAB CONTROL SAMPLE

Lab Sample ID: LCS-031008
LIMS ID: 08-4498
Matrix: Soil

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Ethylene Dibromide	47.0	50.0	94.0%	45.8	50.0	91.6%	2.6%
Bromochloromethane	53.1	50.0	106%	50.5	50.0	101%	5.0%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	99.9%	102%
d8-Toluene	101%	100%
Bromofluorobenzene	100%	99.4%
d4-1,2-Dichlorobenzene	95.1%	97.5%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2

Sample ID: MB-031808
METHOD BLANK

Lab Sample ID: MB-031808
LIMS ID: 08-4492
Matrix: Soil
Data Release Authorized:
Reported: 03/20/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/18/08 10:23

Sample Amount: 5.00 g-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: MB-031808
METHOD BLANK

Lab Sample ID: MB-031808
LIMS ID: 08-4492
Matrix: Soil
Date Analyzed: 03/18/08 10:23

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.2%
d8-Toluene	102%
Bromofluorobenzene	90.2%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2

Sample ID: B-5-10.5
SAMPLE

Lab Sample ID: ML68A
LIMS ID: 08-4492
Matrix: Soil
Data Release Authorized:
Reported: 03/20/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/04/08
Date Received: 03/06/08

Instrument/Analyst: FINN1/PAB
Date Analyzed: 03/18/08 10:56

Sample Amount: 5.61 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 8.9%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.9	< 0.9	U
74-83-9	Bromomethane	0.9	< 0.9	U
75-01-4	Vinyl Chloride	0.9	< 0.9	U
75-00-3	Chloroethane	0.9	< 0.9	U
75-09-2	Methylene Chloride	1.8	< 1.8	U
67-64-1	Acetone	4.4	25	
75-15-0	Carbon Disulfide	0.9	< 0.9	U
75-35-4	1,1-Dichloroethene	0.9	< 0.9	U
75-34-3	1,1-Dichloroethane	0.9	< 0.9	U
156-60-5	trans-1,2-Dichloroethene	0.9	< 0.9	U
156-59-2	cis-1,2-Dichloroethene	0.9	< 0.9	U
67-66-3	Chloroform	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
78-93-3	2-Butanone	4.4	< 4.4	U
71-55-6	1,1,1-Trichloroethane	0.9	< 0.9	U
56-23-5	Carbon Tetrachloride	0.9	< 0.9	U
108-05-4	Vinyl Acetate	4.4	< 4.4	U
75-27-4	Bromodichloromethane	0.9	< 0.9	U
78-87-5	1,2-Dichloropropane	0.9	< 0.9	U
10061-01-5	cis-1,3-Dichloropropene	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	< 0.9	U
124-48-1	Dibromochloromethane	0.9	< 0.9	U
79-00-5	1,1,2-Trichloroethane	0.9	< 0.9	U
71-43-2	Benzene	0.9	1.0	
10061-02-6	trans-1,3-Dichloropropene	0.9	< 0.9	U
75-25-2	Bromoform	0.9	< 0.9	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.4	< 4.4	U
591-78-6	2-Hexanone	4.4	< 4.4	U
127-18-4	Tetrachloroethene	0.9	< 0.9	U
79-34-5	1,1,2,2-Tetrachloroethane	0.9	< 0.9	U
108-88-3	Toluene	0.9	< 0.9	U
108-90-7	Chlorobenzene	0.9	< 0.9	U
100-41-4	Ethylbenzene	0.9	< 0.9	U
100-42-5	Styrene	0.9	< 0.9	U
75-69-4	Trichlorofluoromethane	0.9	< 0.9	U
108-38-3	m,p-Xylene	0.9	< 0.9	U
95-47-6	o-Xylene	0.9	< 0.9	U
95-50-1	1,2-Dichlorobenzene	0.9	< 0.9	U
106-46-7	1,4-Dichlorobenzene	0.9	< 0.9	U
74-88-4	Methyl Iodide	0.9	< 0.9	U
107-13-1	Acrylonitrile	4.4	< 4.4	U
74-95-3	Dibromomethane	0.9	< 0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	< 0.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.4	< 4.4	U
96-18-4	1,2,3-Trichloropropane	1.8	< 1.8	U
110-57-6	trans-1,4-Dichloro-2-butene	4.4	< 4.4	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
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Sample ID: B-5-10.5
SAMPLE

Lab Sample ID: ML68A
LIMS ID: 08-4492
Matrix: Soil
Date Analyzed: 03/18/08 10:56

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	0.9	< 0.9	U
74-97-5	Bromochloromethane	0.9	< 0.9	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	120%
d8-Toluene	101%
Bromofluorobenzene	84.9%
d4-1,2-Dichlorobenzene	110%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B

Sample ID: LCS-031808

Page 1 of 2

LAB CONTROL SAMPLE

Lab Sample ID: LCS-031808

QC Report No: ML68-Parametrix, Inc.

LIMS ID: 08-4492

Project: Yakima

Matrix: Soil

555-5753-001-02-022

Data Release Authorized:

Date Sampled: NA

Reported: 03/20/08

Date Received: NA

Instrument/Analyst LCS: FINN1/PAB

Sample Amount LCS: 5.00 g-dry-wt

LCSD: FINN1/PAB

LCSD: 5.00 g-dry-wt

Date Analyzed LCS: 03/18/08 09:22

Purge Volume LCS: 5.0 mL

LCSD: 03/18/08 09:59

LCSD: 5.0 mL

Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	45.2	50.0	90.4%	42.9	50.0	85.8%	5.2%
Bromomethane	52.1	50.0	104%	49.2	50.0	98.4%	5.7%
Vinyl Chloride	51.4	50.0	103%	47.2	50.0	94.4%	8.5%
Chloroethane	57.9	50.0	116%	55.1	50.0	110%	5.0%
Methylene Chloride	57.3	50.0	115%	54.4	50.0	109%	5.2%
Acetone	266	250	106%	245	250	98.0%	8.2%
Carbon Disulfide	53.8	50.0	108%	50.6	50.0	101%	6.1%
1,1-Dichloroethene	56.3	50.0	113%	54.9	50.0	110%	2.5%
1,1-Dichloroethane	51.8	50.0	104%	50.1	50.0	100%	3.3%
trans-1,2-Dichloroethene	51.7	50.0	103%	49.3	50.0	98.6%	4.8%
cis-1,2-Dichloroethene	52.1	50.0	104%	49.9	50.0	99.8%	4.3%
Chloroform	49.3	50.0	98.6%	47.7	50.0	95.4%	3.3%
1,2-Dichloroethane	47.2	50.0	94.4%	46.0	50.0	92.0%	2.6%
2-Butanone	236	250	94.4%	225	250	90.0%	4.8%
1,1,1-Trichloroethane	48.8	50.0	97.6%	46.9	50.0	93.8%	4.0%
Carbon Tetrachloride	49.0	50.0	98.0%	47.2	50.0	94.4%	3.7%
Vinyl Acetate	49.4	50.0	98.8%	48.4	50.0	96.8%	2.0%
Bromodichloromethane	52.1	50.0	104%	50.1	50.0	100%	3.9%
1,2-Dichloropropane	51.0	50.0	102%	49.8	50.0	99.6%	2.4%
cis-1,3-Dichloropropene	43.0	50.0	86.0%	41.7	50.0	83.4%	3.1%
Trichloroethene	49.6	50.0	99.2%	48.9	50.0	97.8%	1.4%
Dibromochloromethane	39.5	50.0	79.0%	40.1	50.0	80.2%	1.5%
1,1,2-Trichloroethane	48.7	50.0	97.4%	48.2	50.0	96.4%	1.0%
Benzene	53.4	50.0	107%	53.1	50.0	106%	0.6%
trans-1,3-Dichloropropene	41.7	50.0	83.4%	41.3	50.0	82.6%	1.0%
Bromoform	38.8	50.0	77.6%	39.8	50.0	79.6%	2.5%
4-Methyl-2-Pentanone (MIBK)	214	250	85.6%	208	250	83.2%	2.8%
2-Hexanone	258	250	103%	254	250	102%	1.6%
Tetrachloroethene	49.9	50.0	99.8%	49.8	50.0	99.6%	0.2%
1,1,2,2-Tetrachloroethane	47.2	50.0	94.4%	47.1	50.0	94.2%	0.2%
Toluene	52.1	50.0	104%	50.8	50.0	102%	2.5%
Chlorobenzene	50.3	50.0	101%	49.9	50.0	99.8%	0.8%
Ethylbenzene	55.2	50.0	110%	54.7	50.0	109%	0.9%
Styrene	48.8	50.0	97.6%	48.9	50.0	97.8%	0.2%
Trichlorofluoromethane	48.7	50.0	97.4%	46.9	50.0	93.8%	3.8%
m,p-Xylene	110	100	110%	112	100	112%	1.8%
o-Xylene	43.6	50.0	87.2%	43.7	50.0	87.4%	0.2%
1,2-Dichlorobenzene	48.6	50.0	97.2%	48.2	50.0	96.4%	0.8%
1,4-Dichlorobenzene	50.3	50.0	101%	51.2	50.0	102%	1.8%
Methyl Iodide	59.7	50.0	119%	58.4	50.0	117%	2.2%
Acrylonitrile	54.7	50.0	109%	52.5	50.0	105%	4.1%
Dibromomethane	47.3	50.0	94.6%	45.3	50.0	90.6%	4.3%
1,1,1,2-Tetrachloroethane	40.9	50.0	81.8%	41.4	50.0	82.8%	1.2%
1,2-Dibromo-3-chloropropane	40.9	50.0	81.8%	41.9	50.0	83.8%	2.4%
1,2,3-Trichloropropane	43.5	50.0	87.0%	44.5	50.0	89.0%	2.3%
trans-1,4-Dichloro-2-butene	47.8	50.0	95.6%	47.9	50.0	95.8%	0.2%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: LCS-031808
LAB CONTROL SAMPLE

Lab Sample ID: LCS-031808
LIMS ID: 08-4492
Matrix: Soil

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Ethylene Dibromide	42.1	50.0	84.2%	41.2	50.0	82.4%	2.2%
Bromochloromethane	49.4	50.0	98.8%	49.1	50.0	98.2%	0.6%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	100%	95.0%
d8-Toluene	102%	100%
Bromofluorobenzene	97.0%	99.3%
d4-1,2-Dichlorobenzene	97.1%	97.5%

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MB-031008
 METHOD BLANK

Lab Sample ID: MB-031008
 LIMS ID: 08-4492
 Matrix: Soil
 Data Release Authorized: 
 Reported: 03/13/08

QC Report No: ML68-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001-02-022
 Date Sampled: NA
 Date Received: NA

Date Analyzed: 03/10/08 09:29
 Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
 Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	12	< 12 U	
108-88-3	Toluene	12	< 12 U	
100-41-4	Ethylbenzene	12	< 12 U	
	m,p-Xylene	25	< 25 U	
95-47-6	o-Xylene	12	< 12 U	
	Gasoline Range Hydrocarbons	5.0	< 5.0 U	---

BETX Surrogate Recovery

Trifluorotoluene	100%
Bromobenzene	103%

Gasoline Surrogate Recovery

Trifluorotoluene	99.6%
Bromobenzene	102%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: B-5-10.5

SAMPLE

Lab Sample ID: ML68A

LIMS ID: 08-4492

Matrix: Soil

Data Release Authorized: 

Reported: 03/13/08

QC Report No: ML68-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001-02-022

Date Sampled: 03/04/08

Date Received: 03/06/08

Date Analyzed: 03/10/08 16:05

Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL

Sample Amount: 110 mg-dry-wt

Percent Moisture: 8.9%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	11	< 11 U	
108-88-3	Toluene	11	< 11 U	
100-41-4	Ethylbenzene	11	< 11 U	
	m,p-Xylene	22	< 22 U	
95-47-6	o-Xylene	11	< 11 U	
	Gasoline Range Hydrocarbons	4.5	< 4.5 U	GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	98.3%
Bromobenzene	100%

Gasoline Surrogate Recovery

Trifluorotoluene	98.2%
Bromobenzene	101%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: B-9-12
 SAMPLE

Lab Sample ID: ML68B
 LIMS ID: 08-4493
 Matrix: Soil
 Data Release Authorized: 
 Reported: 03/13/08

QC Report No: ML68-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001-02-022
 Date Sampled: 03/04/08
 Date Received: 03/06/08

Date Analyzed: 03/10/08 16:30
 Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
 Sample Amount: 76 mg-dry-wt
 Percent Moisture: 12.2%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	17	< 17 U	
108-88-3	Toluene	17	< 17 U	
100-41-4	Ethylbenzene	17	< 17 U	
	m,p-Xylene	33	< 33 U	
95-47-6	o-Xylene	17	< 17 U	
	Gasoline Range Hydrocarbons	6.6	< 6.6 U	---

BETX Surrogate Recovery

Trifluorotoluene	95.1%
Bromobenzene	99.3%

Gasoline Surrogate Recovery

Trifluorotoluene	95.5%
Bromobenzene	100%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: B-9-7
 SAMPLE

Lab Sample ID: ML68C
 LIMS ID: 08-4494
 Matrix: Soil
 Data Release Authorized:
 Reported: 03/13/08

QC Report No: ML68-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001-02-022
 Date Sampled: 03/04/08
 Date Received: 03/06/08

Date Analyzed: 03/10/08 16:54
 Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
 Sample Amount: 62 mg-dry-wt
 Percent Moisture: 24.3%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	20	< 20 U	
108-88-3	Toluene	20	34	
100-41-4	Ethylbenzene	20	74	
	m,p-Xylene	40	< 40 U	
95-47-6	o-Xylene	20	< 20 U	
	Gasoline Range Hydrocarbons	8.0	21	GAS ID GRO

BETX Surrogate Recovery

Trifluorotoluene	98.1%
Bromobenzene	99.6%

Gasoline Surrogate Recovery

Trifluorotoluene	98.0%
Bromobenzene	101%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: BOILER DRAIN
 SAMPLE

Lab Sample ID: ML68D
 LIMS ID: 08-4495
 Matrix: Soil
 Data Release Authorized:
 Reported: 03/13/08

QC Report No: ML68-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001-02-022
 Date Sampled: 03/04/08
 Date Received: 03/06/08

Date Analyzed: 03/10/08 17:19
 Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
 Sample Amount: 27 mg-dry-wt
 Percent Moisture: 54.8%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	46	< 46 U	
108-88-3	Toluene	46	< 46 U	
100-41-4	Ethylbenzene	46	< 46 U	
	m,p-Xylene	93	< 93 U	
95-47-6	o-Xylene	46	< 46 U	
	Gasoline Range Hydrocarbons	18	< 18 U	---

BETX Surrogate Recovery

Trifluorotoluene	94.6%
Bromobenzene	84.4%

Gasoline Surrogate Recovery

Trifluorotoluene	97.6%
Bromobenzene	87.4%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: B-8-14

SAMPLE

Lab Sample ID: ML68E

LIMS ID: 08-4496

Matrix: Soil

Data Release Authorized: 

Reported: 03/13/08

QC Report No: ML68-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001-02-022

Date Sampled: 03/04/08

Date Received: 03/06/08

Date Analyzed: 03/10/08 18:33

Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL

Sample Amount: 97 mg-dry-wt

Percent Moisture: 8.3%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	13	< 13 U	
108-88-3	Toluene	13	< 13 U	
100-41-4	Ethylbenzene	13	< 13 U	
	m,p-Xylene	26	< 26 U	
95-47-6	o-Xylene	13	< 13 U	
	Gasoline Range Hydrocarbons	5.2	< 5.2 U	GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	84.3%
Bromobenzene	87.2%

Gasoline Surrogate Recovery

Trifluorotoluene	86.8%
Bromobenzene	91.0%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: B-7-14

SAMPLE

Lab Sample ID: ML68F

LIMS ID: 08-4497

Matrix: Soil

Data Release Authorized:

Reported: 03/13/08

QC Report No: ML68-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001-02-022

Date Sampled: 03/04/08

Date Received: 03/06/08

Date Analyzed: 03/10/08 18:58

Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL

Sample Amount: 100 mg-dry-wt

Percent Moisture: 6.0%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	12	< 12 U	
108-88-3	Toluene	12	< 12 U	
100-41-4	Ethylbenzene	12	< 12 U	
	m,p-Xylene	24	< 24 U	
95-47-6	o-Xylene	12	< 12 U	
	Gasoline Range Hydrocarbons	4.8	< 4.8 U	GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	82.6%
Bromobenzene	87.2%

Gasoline Surrogate Recovery

Trifluorotoluene	85.4%
Bromobenzene	90.7%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: B-4-13

SAMPLE

Lab Sample ID: ML68G

LIMS ID: 08-4498

Matrix: Soil

Data Release Authorized: 

Reported: 03/13/08

QC Report No: ML68-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001-02-022

Date Sampled: 03/04/08

Date Received: 03/06/08

Date Analyzed: 03/10/08 19:23

Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL

Sample Amount: 28 mg-dry-wt

Percent Moisture: 52.7%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	45	< 45 U	
108-88-3	Toluene	45	160	
100-41-4	Ethylbenzene	45	< 45 U	
	m,p-Xylene	91	< 91 U	
95-47-6	o-Xylene	45	< 45 U	
	Gasoline Range Hydrocarbons	18	< 18 U	---

BETX Surrogate Recovery

Trifluorotoluene	84.8%
Bromobenzene	89.6%

Gasoline Surrogate Recovery

Trifluorotoluene	87.5%
Bromobenzene	93.3%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: B-4D-13

SAMPLE

Lab Sample ID: ML68H

LIMS ID: 08-4499

Matrix: Soil

Data Release Authorized:

Reported: 03/13/08 

QC Report No: ML68-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001-02-022

Date Sampled: 03/04/08

Date Received: 03/06/08

Date Analyzed: 03/10/08 19:48

Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL

Sample Amount: 39 mg-dry-wt

Percent Moisture: 42.4%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	32	46	
108-88-3	Toluene	32	88	
100-41-4	Ethylbenzene	32	< 32 U	
	m,p-Xylene	63	< 63 U	
95-47-6	o-Xylene	32	< 32 U	
	Gasoline Range Hydrocarbons	13	< 13 U	---

BETX Surrogate Recovery

Trifluorotoluene	87.0%
Bromobenzene	92.4%

Gasoline Surrogate Recovery

Trifluorotoluene	90.0%
Bromobenzene	96.1%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: B-6-14

SAMPLE

Lab Sample ID: ML68I

LIMS ID: 08-4500

Matrix: Soil

Data Release Authorized: 

Reported: 03/13/08

QC Report No: ML68-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001-02-022

Date Sampled: 03/04/08

Date Received: 03/06/08

Date Analyzed: 03/10/08 20:13

Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL

Sample Amount: 99 mg-dry-wt

Percent Moisture: 7.5%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	13	< 13 U	
108-88-3	Toluene	13	< 13 U	
100-41-4	Ethylbenzene	13	< 13 U	
	m,p-Xylene	25	< 25 U	
95-47-6	o-Xylene	13	< 13 U	
	Gasoline Range Hydrocarbons	5.1	< 5.1 U	---
BETX Surrogate Recovery				
	Trifluorotoluene	85.2%		
	Bromobenzene	90.7%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	88.1%		
	Bromobenzene	94.0%		

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: TRIP BLANK
 SAMPLE

Lab Sample ID: ML68J
 LIMS ID: 08-4501
 Matrix: Water
 Data Release Authorized: 
 Reported: 03/13/08

QC Report No: ML68-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001-02-022
 Date Sampled: 03/04/08
 Date Received: 03/06/08

Date Analyzed: 03/10/08 11:09
 Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	0.25	< 0.25 U	
108-88-3	Toluene	0.25	< 0.25 U	
100-41-4	Ethylbenzene	0.25	< 0.25 U	
	m,p-Xylene	0.50	< 0.50 U	
95-47-6	o-Xylene	0.25	< 0.25 U	
	Gasoline Range Hydrocarbons	0.10	< 0.10 U	---

BETX Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	101%

Gasoline Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	102%

BETX values reported in $\mu\text{g/L}$ (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: LCS-031008
LAB CONTROL SAMPLE

Lab Sample ID: LCS-031008
LIMS ID: 08-4492
Matrix: Soil
Data Release Authorized: *APB*
Reported: 03/13/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
Event: 555-5753-001-02-022
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 03/10/08 08:40
LCSD: 03/10/08 09:04
Instrument/Analyst LCS: PID3/PKC
LCSD: PID3/PKC

Purge Volume: 5.0 mL
Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	57.1	50.0	114%	52.2	50.0	104%	9.0%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	104%	99.7%
Bromobenzene	105%	104%

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

Page 1 of 1

Sample ID: LCS-031008

LAB CONTROL SAMPLE

Lab Sample ID: LCS-031008

LIMS ID: 08-4492

Matrix: Soil

Data Release Authorized:

Reported: 03/13/08

QC Report No: ML68-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001-02-022

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 03/10/08 08:40

Purge Volume: 5.0 mL

LCSD: 03/10/08 09:04

Instrument/Analyst LCS: PID3/PKC

Sample Amount LCS: 100 mg-dry-wt

LCSD: PID3/PKC

LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	360	350	103%	354	350	101%	1.7%
Toluene	3160	3100	102%	3100	3100	100%	1.9%
Ethylbenzene	596	595	100%	585	595	98.3%	1.9%
m,p-Xylene	2250	2230	101%	2190	2230	98.2%	2.7%
o-Xylene	820	790	104%	796	790	101%	3.0%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	105%	101%
Bromobenzene	104%	103%

PC
3/11/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a006.d ARI ID: MB0310S1
Data file 2: /chem3/pid3.i/20080310-1.b/0310a006.d Client ID:
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 09:29
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.940	-0.003	6990	93852	99.6	TFT (Surr)
13.630	-0.003	3466	41495	102.5	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	4641	0.006
8015B (2MP-TMB)	3981	0.002
AKGas (nC6-nC10)	3980	0.003
NWGas (Tol-Nap)	4641	0.005

* Surrogate areas are subtracted from Total Area
=====

RT	Shift	PID Surrogates		Compound
		Response	%Rec	
6.939	-0.003	28020	100.4	TFT (Surr)
13.628	-0.003	48984	103.0	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
J Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.1b/0310a006.d

Date: 10-MAR-2008 09:29

Client ID:

Sample Info: HB0310S1

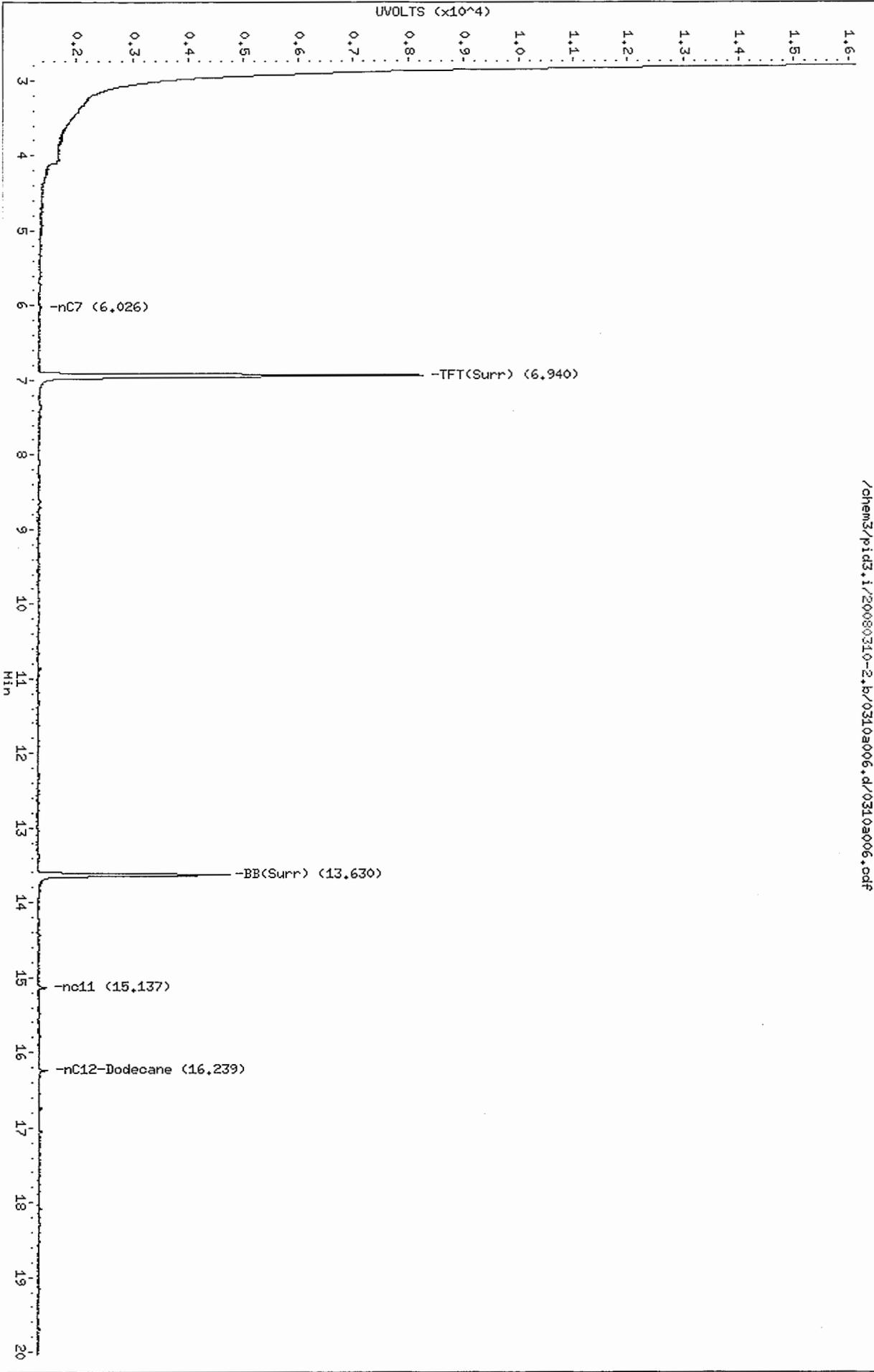
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: PC

Column diameter: 0.18

/chem3/pid3.i/20080310-2.1b/0310a006.d/0310a006.pdf



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BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a004.d ARI ID: LCS0310S1
Data file 2: /chem3/pid3.i/20080310-1.b/0310a004.d Client ID:
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 08:40
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.940	-0.003	7293	99829	103.9	TFT(Surr)
13.631	-0.002	3558	41874	105.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	948682	1.136
8015B (2MP-TMB)	1939838	1.106
AKGas (nC6-nC10)	1368849	1.117
NWGas (Tol-Nap)	997337	1.142

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.938	-0.004	29307	105.0	TFT(Surr)
13.629	-0.002	49703	104.5	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
6.226	-0.004	12451	7.20	Benzene
8.709	-0.003	112935	63.16	Toluene
11.210	-0.003	19322	11.93	Ethylbenzene
11.349	0.000	79122	44.95	M/P-Xylene
12.137	-0.003	24470	16.39	O-Xylene
4.052	-0.003	39145	81.91	MTBE

A Indicates Peak Area was used for quantitation instead of Height
J Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.b/0310a004.d

Date: 10-HAR-2008 08:40

Client ID:

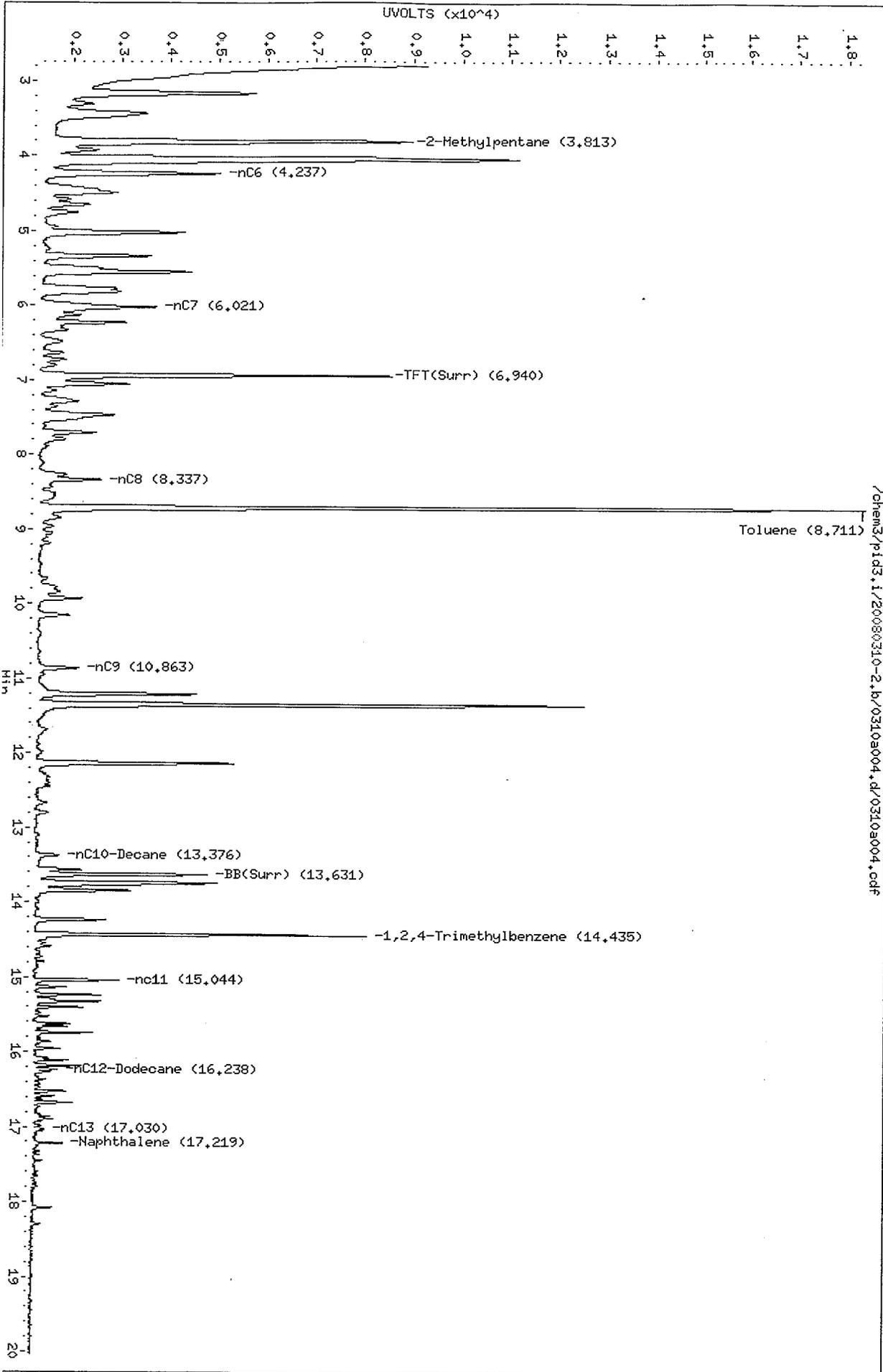
Sample Info: LCS0310S1

Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: PC

Column diameter: 0.18



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BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a005.d ARI ID: LCSD0310S1
Data file 2: /chem3/pid3.i/20080310-1.b/0310a005.d Client ID:
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 09:04
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.942	-0.001	6993	96388	99.7	TFT(Surr)
13.630	-0.003	3499	40354	103.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	868671	1.041
8015B (2MP-TMB)	1843154	1.051
AKGas (nC6-nC10)	1287574	1.051
NWGas (Tol-Nap)	910530	1.043

* Surrogate areas are subtracted from Total Area
=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.940	-0.001	28292	101.3	TFT(Surr)
13.629	-0.003	49174	103.4	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
6.229	-0.001	12260	7.09	Benzene
8.711	-0.002	110679	61.90	Toluene
11.211	-0.002	18940	11.70	Ethylbenzene
11.350	0.000	77043	43.77	M/P-Xylene
12.137	-0.003	23779	15.93	O-Xylene
4.058	0.002	37605	78.68	MTBE

A Indicates Peak Area was used for quantitation instead of Height
V Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.b/0310a005.d

Date: 10-MAR-2008 09:04

Client ID:

Sample Info: LCSD0310S1

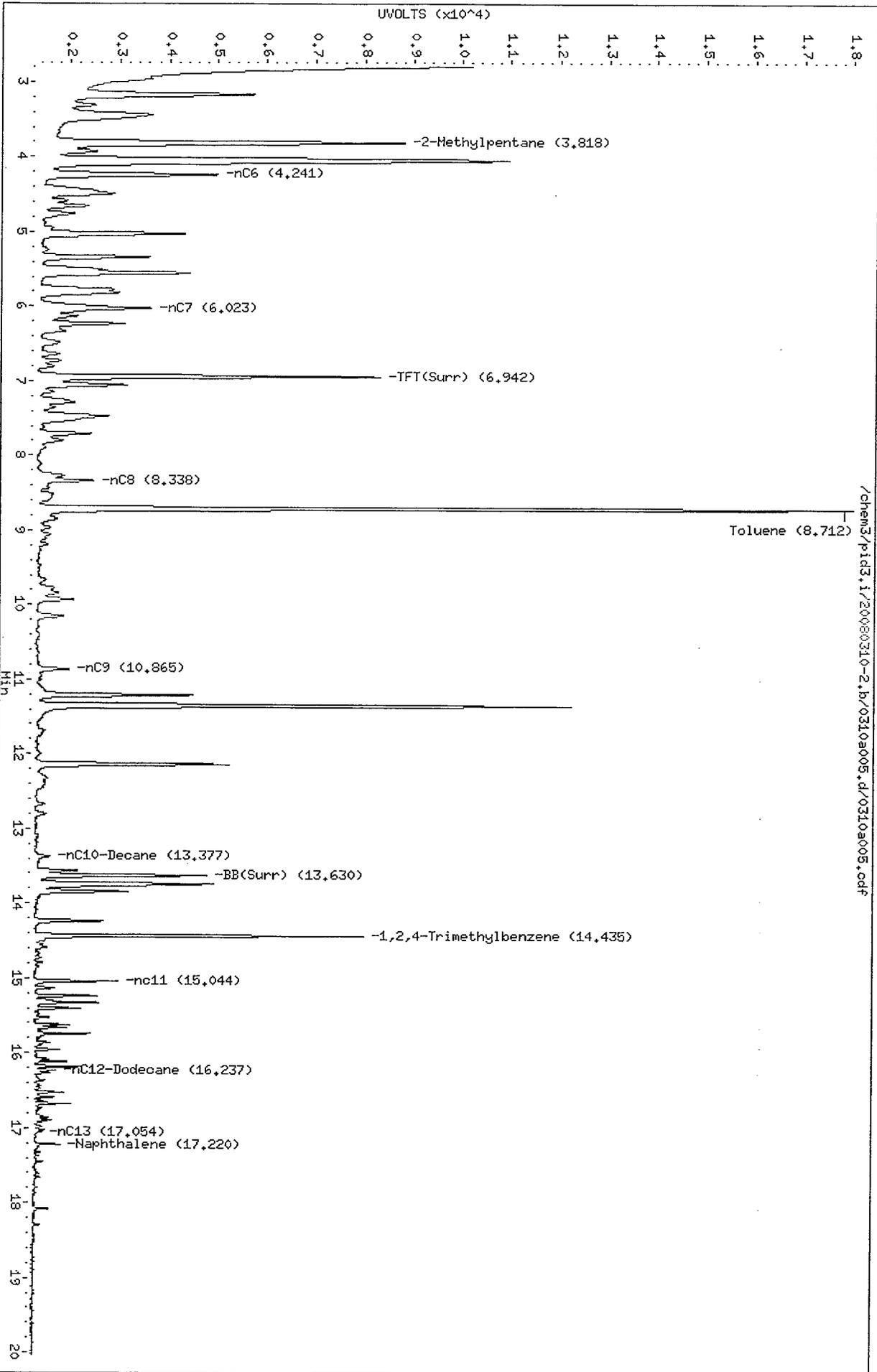
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: PC

Column diameter: 0.18

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BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a020.d ARI ID: ML68A
Data file 2: /chem3/pid3.i/20080310-1.b/0310a020.d Client ID: B-5-10.5
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 16:05
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.937	-0.006	6887	90690	98.2	TFT (Surr)
13.629	-0.004	3426	40317	101.4	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	28465	0.034
8015B (2MP-TMB)	22121	0.013
AKGas (nC6-nC10)	18939	0.015
NWGas (Tol-Nap)	30308	0.035

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.935	-0.006	27460	98.3	TFT (Surr)
13.627	-0.004	47785	100.5	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.b/0310a020.d
Date: 10-MAR-2008 16:05
Client ID: B-5-10.5
Sample Info: ML69A

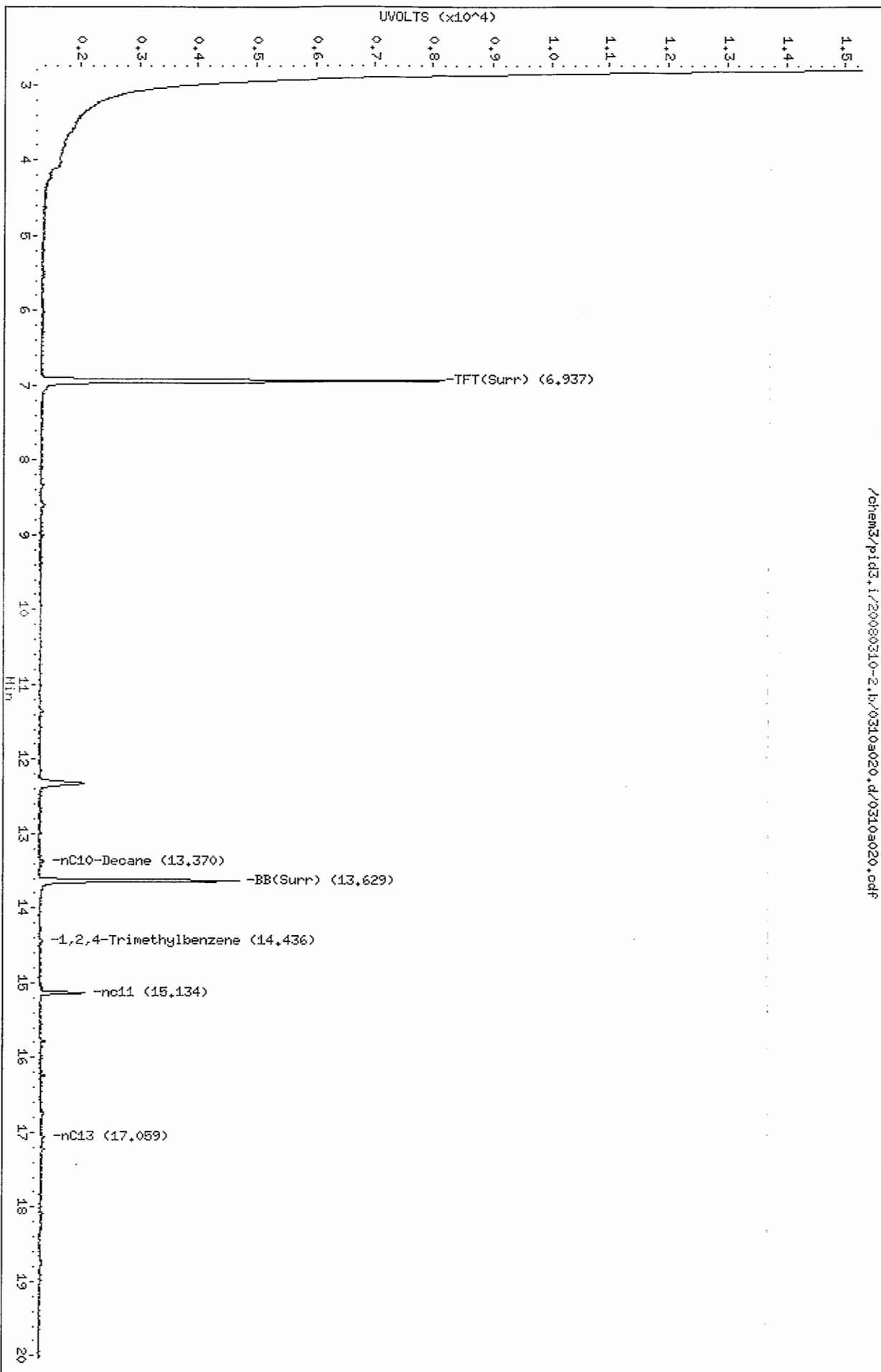
Column phase: RTX 502-2 FID

/chem3/pid3.i/20080310-2.b/0310a020.d/0310a020.pdf

Instrument: pid3.i

Operator: PC

Column diameter: 0.18



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BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a021.d ARI ID: ML68B
Data file 2: /chem3/pid3.i/20080310-1.b/0310a021.d Client ID: B-9-12
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 16:30
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.938	-0.005	6704	87069	95.5	TFT(Surr)
13.629	-0.004	3387	40234	100.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	28763	0.034
8015B (2MP-TMB)	22037	0.013
AKGas (nC6-nC10)	17408	0.014
NWGas (Tol-Nap)	36697	0.042

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.936	-0.005	26562	95.1	TFT(Surr)
13.628	-0.004	47224	99.3	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

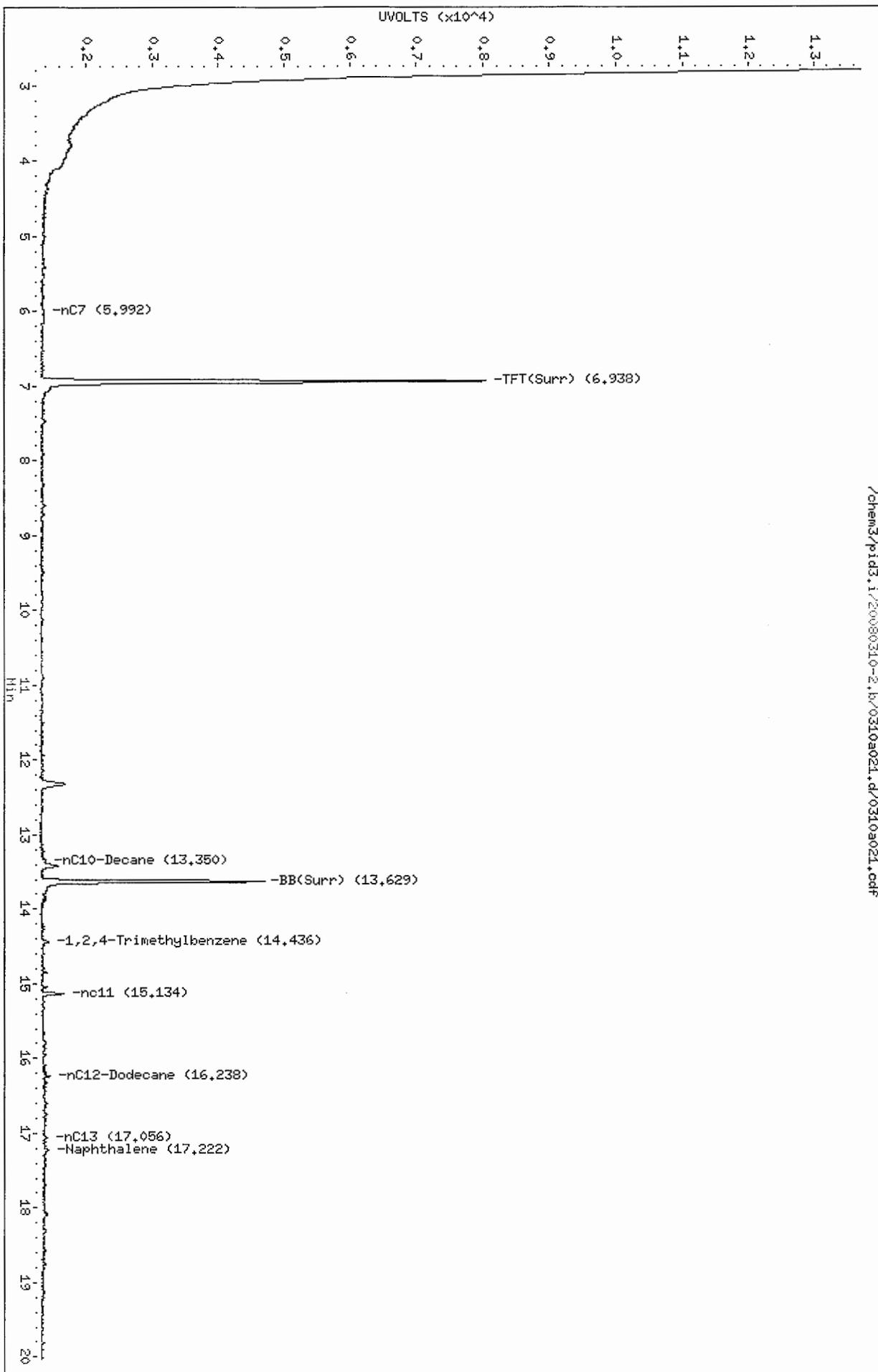
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.b/0310a021.d
Date: 10-MAR-2008 16:30
Client ID: B-9-12
Sample Info: HL68B

Column Phase: RTX 502-2 FID

/chem3/pid3.i/20080310-2.b/0310a021.d/0310a021.cdf

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



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BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a022.d ARI ID: ML68C
Data file 2: /chem3/pid3.i/20080310-1.b/0310a022.d Client ID: B-9-7
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 16:54
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.938	-0.005	6876	90543	98.0	TFT(Surr)
13.629	-0.004	3429	40077	101.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	205976	0.247
8015B (2MP-TMB)	167346	0.095
AKGas (nC6-nC10)	93050	0.076
NWGas (Tol-Nap)	224370	0.257 <i>grd</i>

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.937	-0.005	27383	98.1	TFT(Surr)
13.628	-0.004	47378	99.6	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
8.709	-0.003	744	0.42	Toluene
11.256	0.043	1484	0.92	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.b/0310a022.d
Date: 10-MAR-2008 16:54
Client ID: B-9-7
Sample Info: ML68C

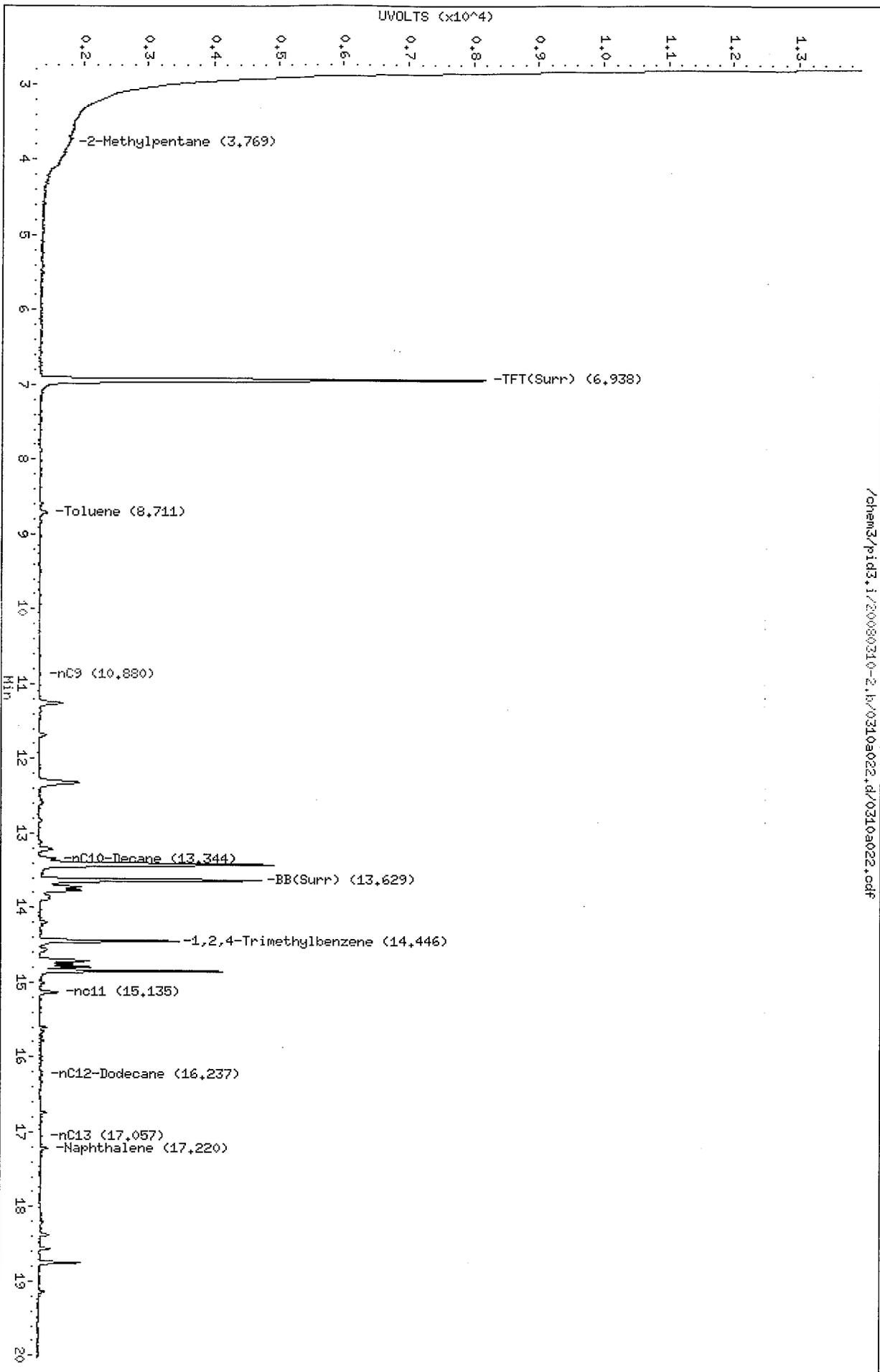
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: PC

Column diameter: 0.18

/chem3/pid3.i/20080310-2.b/0310a022.d/0310a022.cdf



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BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a023.d ARI ID: ML68D
Data file 2: /chem3/pid3.i/20080310-1.b/0310a023.d Client ID: BOILER DRAIN
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 17:19
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.938	-0.004	6847	87496	97.6	TFT(Surr)
13.630	-0.003	2954	34021	87.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	11096	0.013
8015B (2MP-TMB)	9641	0.005
AKGas (nC6-nC10)	9641	0.008
NWGas (Tol-Nap)	11096	0.013

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.937	-0.004	26405	94.6	TFT(Surr)
13.629	-0.003	40117	84.4	BB(Surr)

AROMATICS (PID)

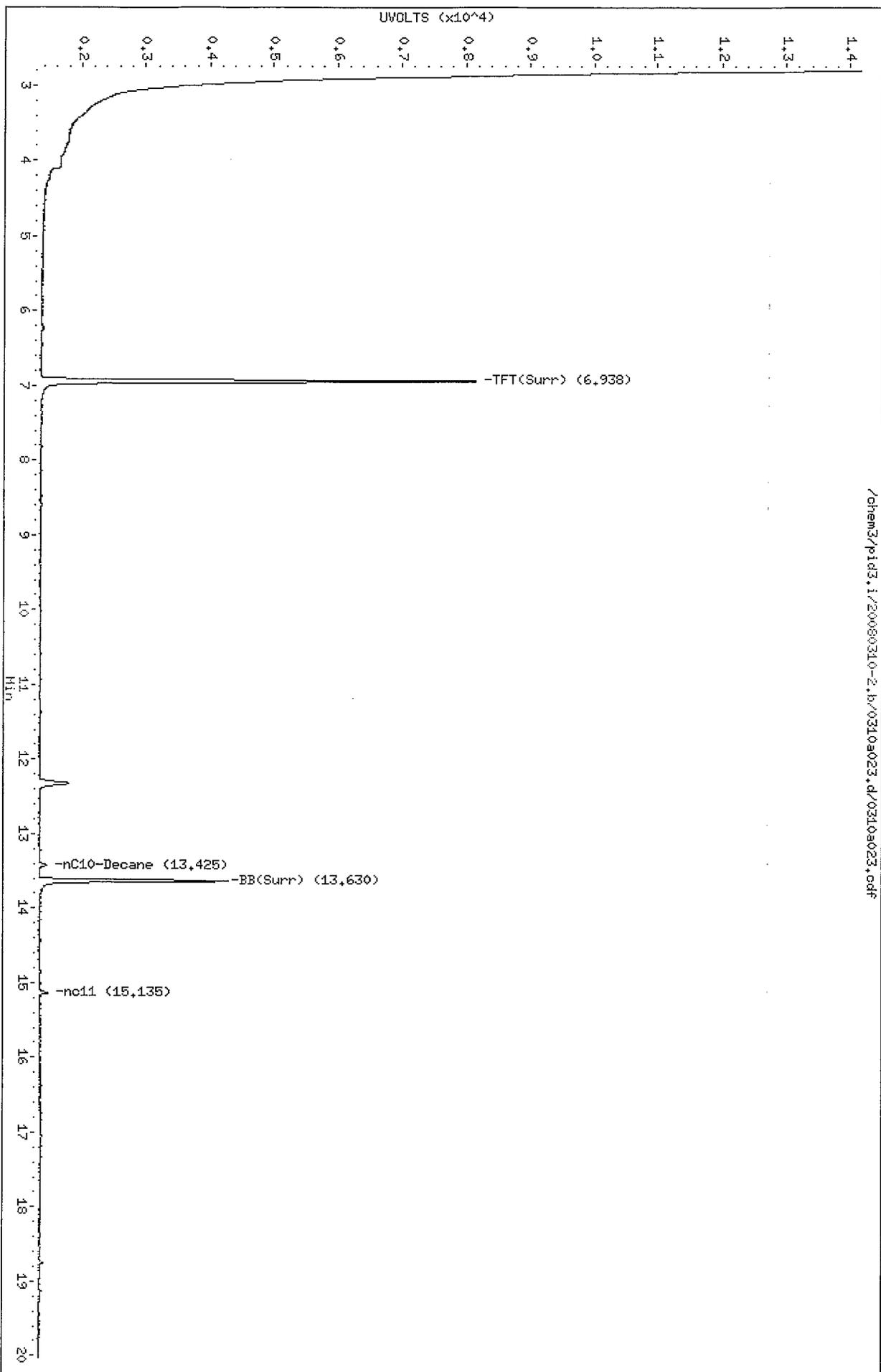
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.b/0310a023.d
Date: 10-MAR-2008 17:19
Client ID: BOILER DRAIN
Sample Inlet: ML68D

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



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BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a026.d ARI ID: ML68E
Data file 2: /chem3/pid3.i/20080310-1.b/0310a026.d Client ID: B-8-14
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 18:33
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.939	-0.004	6091	77188	86.8	TFT(Surr)
13.629	-0.004	3075	35696	91.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	2266	0.003
8015B (2MP-TMB)	2266	0.001
AKGas (nC6-nC10)	2266	0.002
NWGas (Tol-Nap)	2266	0.003

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.938	-0.004	23537	84.3	TFT(Surr)
13.628	-0.004	41474	87.2	BB(Surr)

AROMATICS (PID)

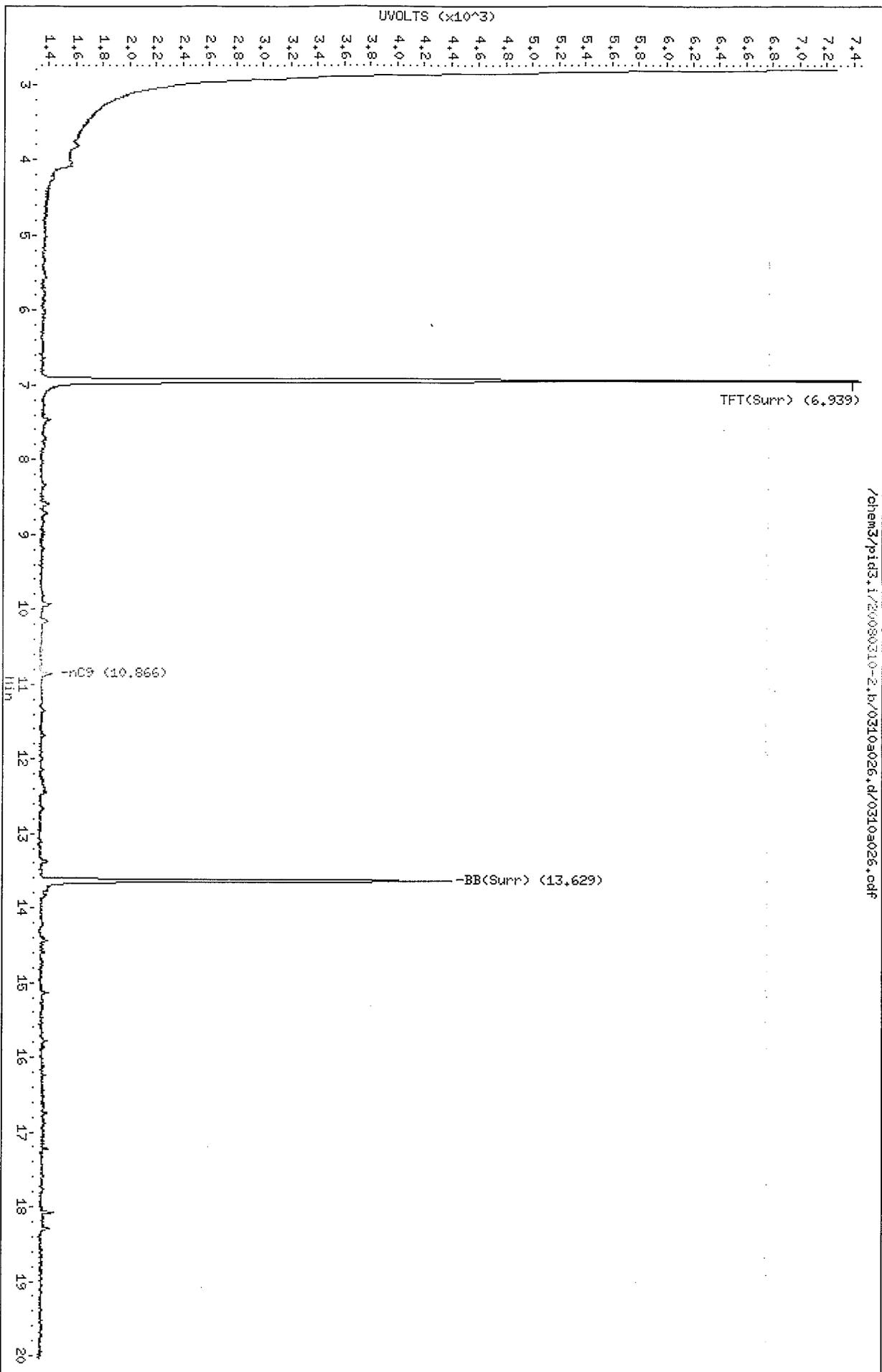
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.1/20080310-2.b/0310a026.d
Date: 10-MAR-2008 18:33
Client ID: B-8-14
Sample Info: HL68E

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



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BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a027.d ARI ID: ML68F
Data file 2: /chem3/pid3.i/20080310-1.b/0310a027.d Client ID: B-7-14
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 18:58
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.940	-0.003	5995	78514	85.4	TFT(Surr)
13.629	-0.004	3065	35845	90.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	1667	0.002
8015B (2MP-TMB)	1668	0.001
AKGas (nC6-nC10)	1668	0.001
NWGas (Tol-Nap)	1667	0.002

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.939	-0.003	23071	82.6	TFT(Surr)
13.627	-0.004	41484	87.2	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

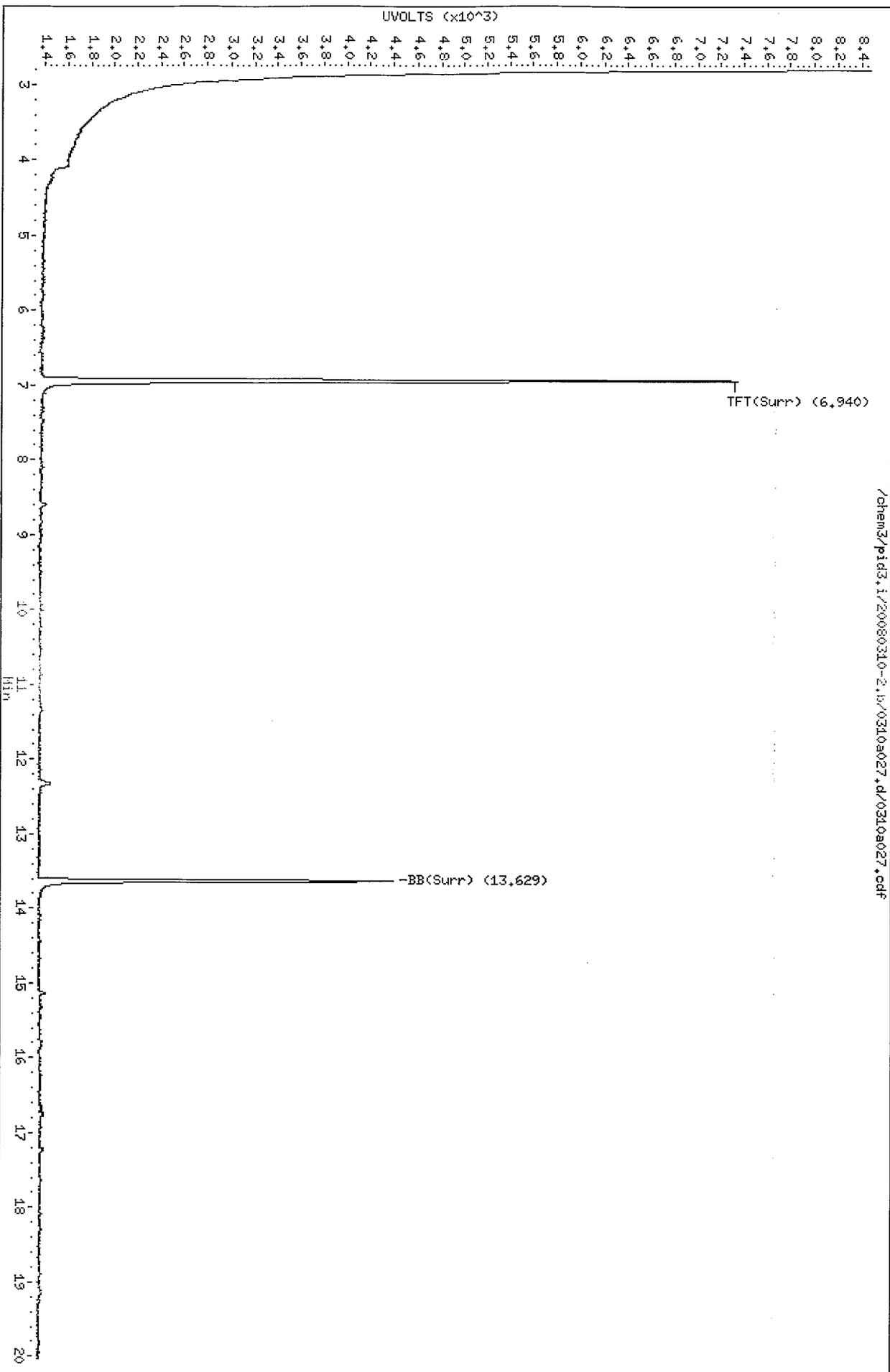
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.b/0310a027.d
Date: 10-MAR-2008 18:58
Client ID: B-7-14
Sample Info: HL68F

Instrument: pid3.i

Column phase: RTX 502-2 FID

Operator: PC
Column diameter: 0.18



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BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a028.d ARI ID: ML68G
Data file 2: /chem3/pid3.i/20080310-1.b/0310a028.d Client ID: B-4-13
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 19:23
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.938	-0.005	6142	80538	87.5	TFT(Surr)
13.628	-0.005	3155	37327	93.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	15324	0.018
8015B (2MP-TMB)	9961	0.006
AKGas (nC6-nC10)	8866	0.007
NWGas (Tol-Nap)	15324	0.013

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.936	-0.005	23682	84.8	TFT(Surr)
13.626	-0.005	42598	89.6	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
8.707	-0.005	1586	0.89	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.i/0310a028.d

Date: 10-MAR-2008 19:23

Client ID: B-4-13

Sample Info: HL686C

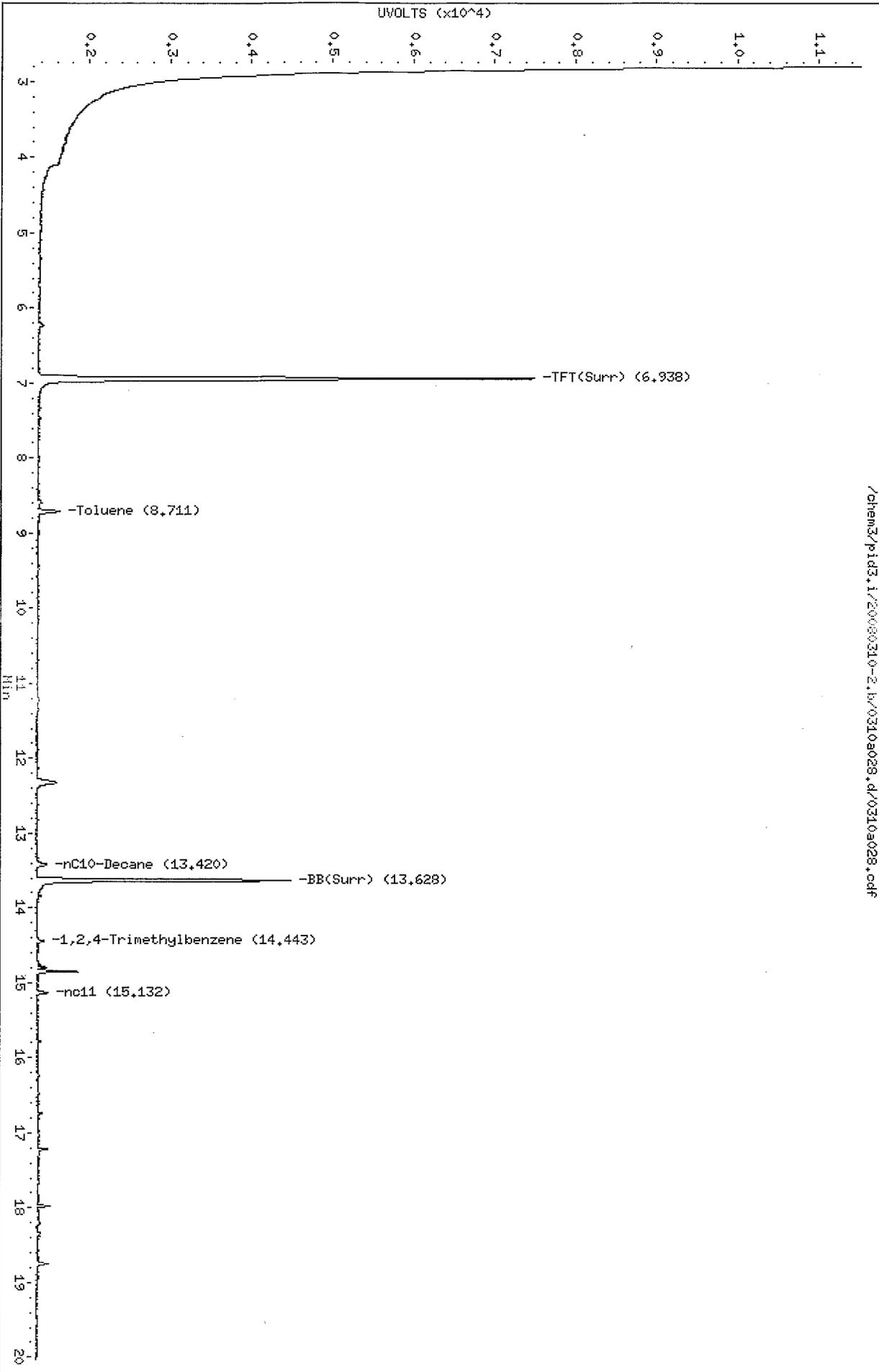
Column Phase: RTX 502-2 FID

Instrument: pid3.i

Operator: PC

Column diameter: 0.18

/chem3/pid3.i/20080310-2.i/0310a028.d/0310a028.cdf



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BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a029.d ARI ID: ML68H
Data file 2: /chem3/pid3.i/20080310-1.b/0310a029.d Client ID: B-4D-13
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 19:48
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.940	-0.003	6314	83657	90.0	TFT (Surr)
13.629	-0.004	3248	37467	96.1	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	12290	0.015
8015B (2MP-TMB)	11089	0.006
AKGas (nC6-nC10)	9920	0.003
NWGas (Tol-Nap)	15097	0.017

* Surrogate areas are subtracted from Total Area

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PID Surrogates

RT	Shift	Response	%Rec	Compound
6.938	-0.004	24298	87.0	TFT (Surr)
13.627	-0.004	43927	92.4	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
6.225	-0.005	618	0.36	Benzene
8.709	-0.003	1234	0.69	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

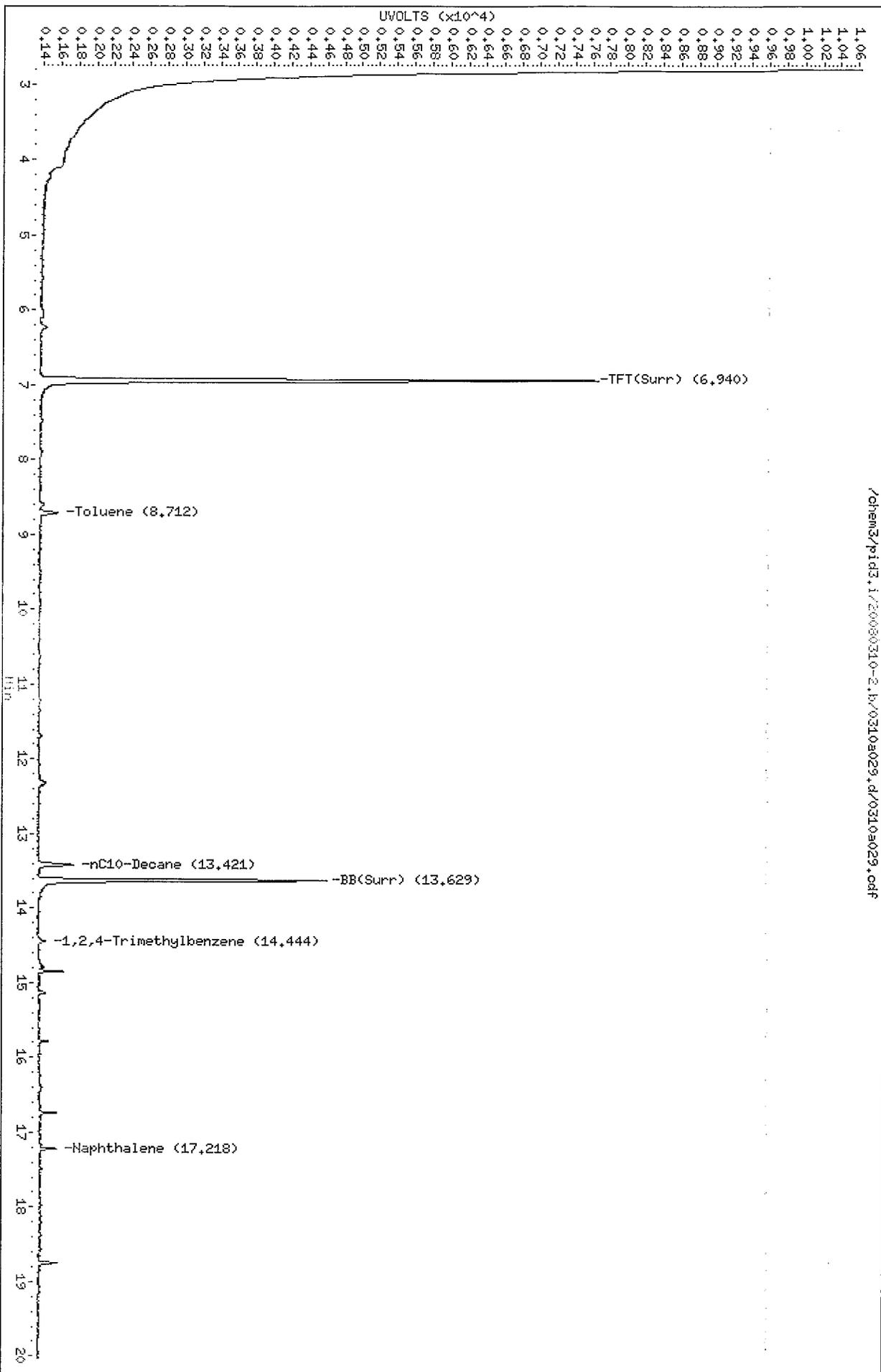
Data File: /chem3/pid3.1/20080310-2.b/0310a029.d
Date: 10-MAR-2008 19:48
Client ID: B-4D-13
Sample Info: ML68H

Instrument: pid3.1

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Column phase: RTX 502-2 FID

Operator: PC
Column diameter: 0.18



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a030.d ARI ID: ML68I
Data file 2: /chem3/pid3.i/20080310-1.b/0310a030.d Client ID: B-6-14
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 20:13
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.939	-0.004	6179	82118	88.1	TFT(Surr)
13.629	-0.004	3178	36897	94.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	0	0.000
8015B (2MP-TMB)	1	0.000
AKGas (nC5-nC10)	0	0.000
NWGas (Tol-Nap)	0	0.000

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.938	-0.004	23787	85.2	TFT(Surr)
13.627	-0.004	43129	90.7	BB(Surr)

AROMATICS (PID)

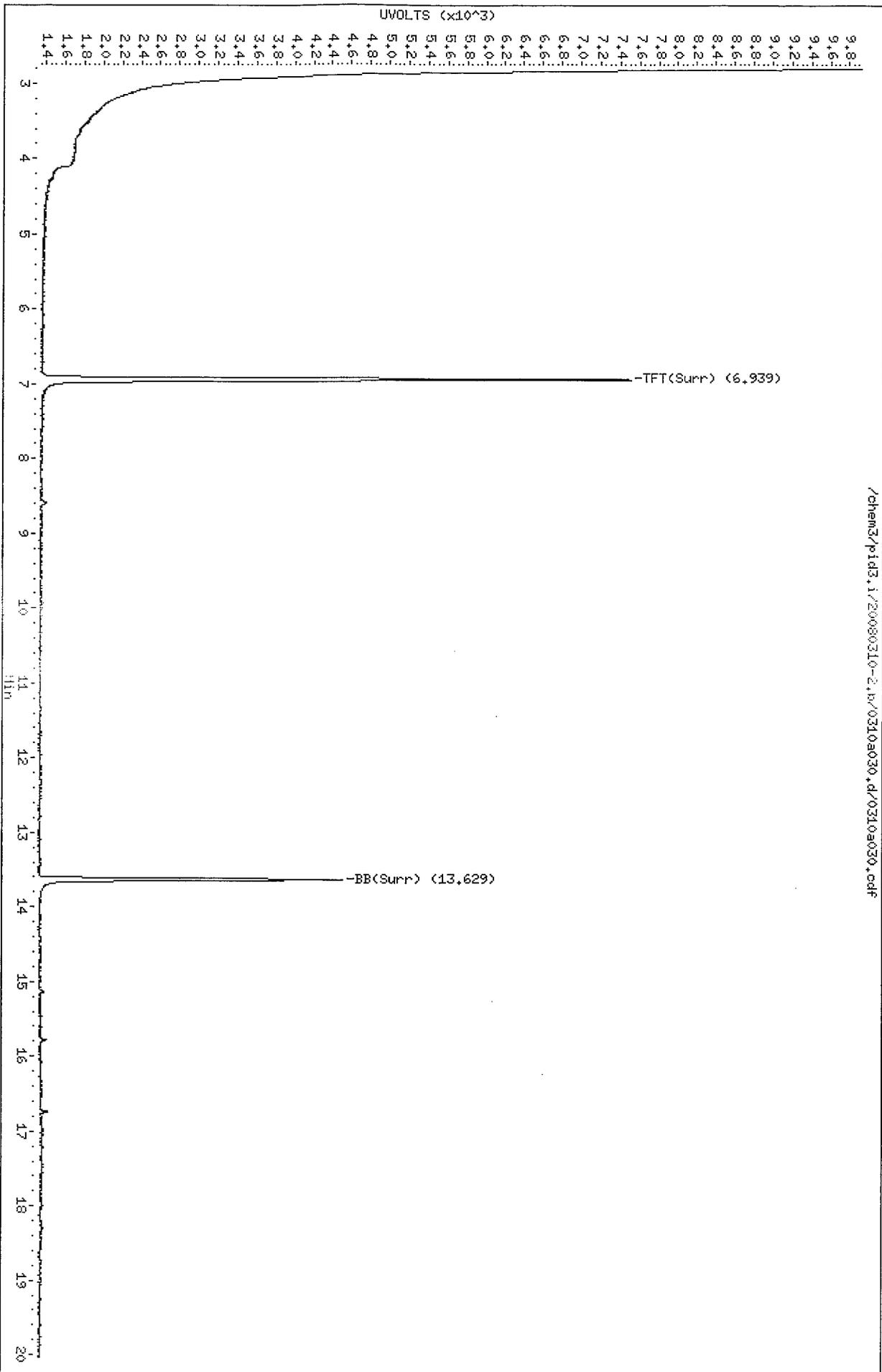
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.b/0310a030.d
Date: 10-MAR-2008 20:13
Client ID: B-6-14
Sample Info: HL681

Column phase: RTX 502-2 FID

Operator: PC
Column diameter: 0.18



PC
3/11/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080310-2.b/0310a008.d ARI ID: ML68J
Data file 2: /chem3/pid3.i/20080310-1.b/0310a008.d Client ID: TRIP BLANK
Method: /chem3/pid3.i/20080310-1.b/PIDB.m Injection Date: 10-MAR-2008 11:09
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

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FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.939	-0.004	7177	92749	102.3	TFT (Surr)
13.631	-0.002	3436	39984	101.6	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	1	0.000
8015B (2MP-TMB)	1	0.000
AKGas (nC6-nC10)	0	0.000
NWGas (Tol-Nap)	1	0.000

* Surrogate areas are subtracted from Total Area

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PID Surrogates

RT	Shift	Response	%Rec	Compound
6.938	-0.003	28554	102.3	TFT (Surr)
13.630	-0.001	48100	101.2	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080310-2.bv/0310a008.d

Date: 10-MAR-2008 11:09

Client ID: TRIP BLANK

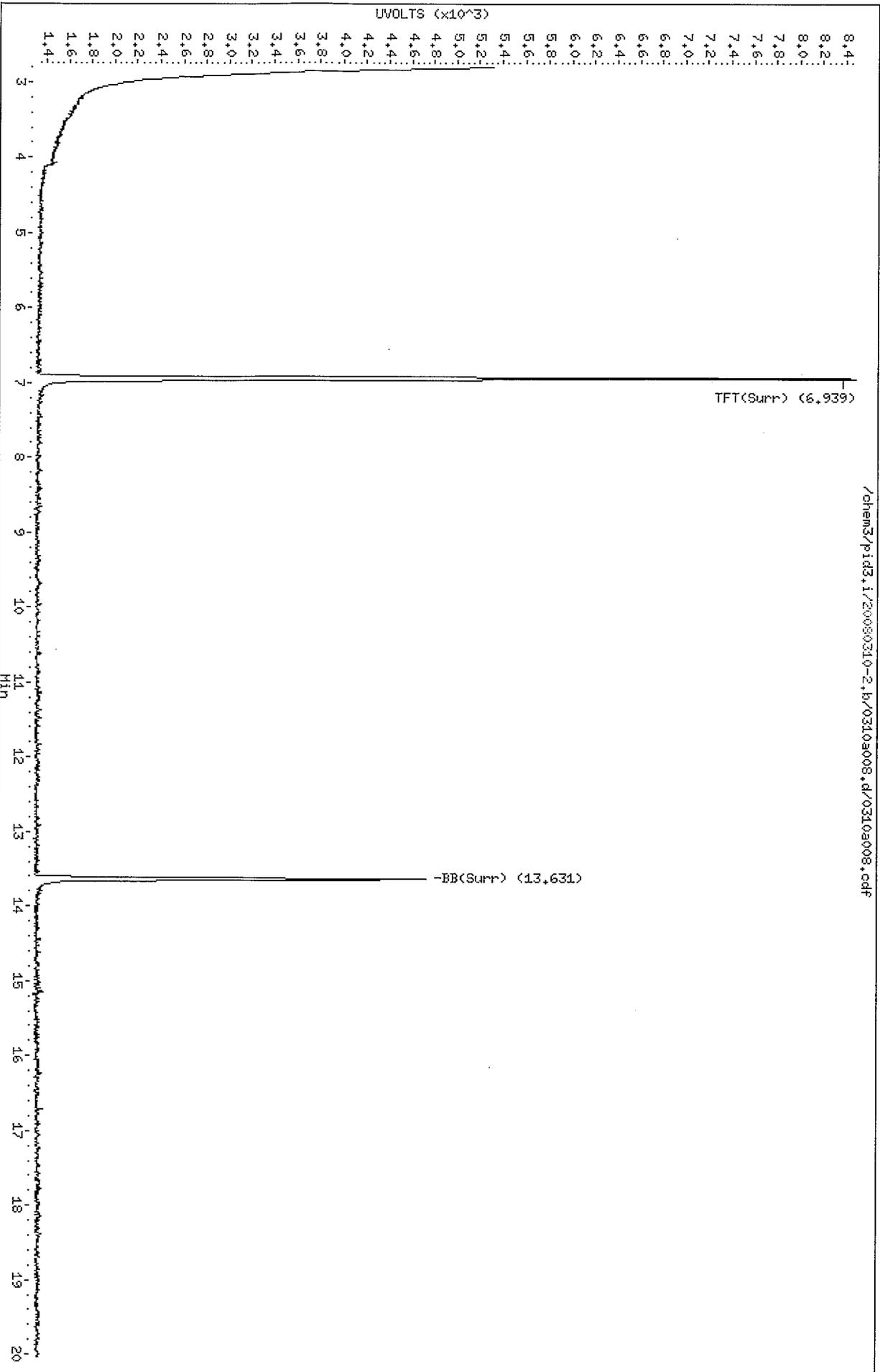
Sample Info: HL683

Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: PC

Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: MB-031208
METHOD BLANK

Lab Sample ID: MB-031208
LIMS ID: 08-4495
Matrix: Soil
Data Release Authorized: 
Reported: 03/18/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: NA
Date Received: NA

Date Extracted: 03/12/08
Date Analyzed: 03/13/08 14:37
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	67	< 67 U
111-44-4	Bis-(2-Chloroethyl) Ether	67	< 67 U
95-57-8	2-Chlorophenol	67	< 67 U
541-73-1	1,3-Dichlorobenzene	67	< 67 U
106-46-7	1,4-Dichlorobenzene	67	< 67 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	67	< 67 U
95-48-7	2-Methylphenol	67	< 67 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	67	< 67 U
106-44-5	4-Methylphenol	67	< 67 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	67	< 67 U
98-95-3	Nitrobenzene	67	< 67 U
78-59-1	Isophorone	67	< 67 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	67	< 67 U
65-85-0	Benzoic Acid	670	< 670 U
111-91-1	bis(2-Chloroethoxy) Methane	67	< 67 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	67	< 67 U
91-20-3	Naphthalene	67	< 67 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	67	< 67 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	67	< 67 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	67	< 67 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	67	< 67 U
51-28-5	2,4-Dinitrophenol	670	< 670 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	67	< 67 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: MB-031208
METHOD BLANK

Lab Sample ID: MB-031208
LIMS ID: 08-4495
Matrix: Soil
Date Analyzed: 03/13/08 14:37

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	67	< 67 U
7005-72-3	4-Chlorophenyl-phenylether	67	< 67 U
86-73-7	Fluorene	67	< 67 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670	< 670 U
86-30-6	N-Nitrosodiphenylamine	67	< 67 U
101-55-3	4-Bromophenyl-phenylether	67	< 67 U
118-74-1	Hexachlorobenzene	67	< 67 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	67	< 67 U
86-74-8	Carbazole	67	< 67 U
120-12-7	Anthracene	67	< 67 U
84-74-2	Di-n-Butylphthalate	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
85-68-7	Butylbenzylphthalate	67	< 67 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	67	< 67 U
117-81-7	bis(2-Ethylhexyl)phthalate	67	< 67 U
218-01-9	Chrysene	67	< 67 U
117-84-0	Di-n-Octyl phthalate	67	< 67 U
205-99-2	Benzo(b)fluoranthene	67	< 67 U
207-08-9	Benzo(k)fluoranthene	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U
90-12-0	1-Methylnaphthalene	67	< 67 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.0%	2-Fluorobiphenyl	59.2%
d14-p-Terphenyl	66.0%	d4-1,2-Dichlorobenzene	57.6%
d5-Phenol	66.1%	2-Fluorophenol	53.9%
2,4,6-Tribromophenol	79.5%	d4-2-Chlorophenol	62.4%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: BOILER DRAIN
SAMPLE

Lab Sample ID: ML68D
LIMS ID: 08-4495
Matrix: Soil
Data Release Authorized: 
Reported: 03/18/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/04/08
Date Received: 03/06/08

Date Extracted: 03/12/08
Date Analyzed: 03/13/08 21:34
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 7.70 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 54.8%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	110
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	410
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	65	< 65 U
208-96-8	Acenaphthylene	65	92
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: BOILER DRAIN
SAMPLE

Lab Sample ID: ML68D
LIMS ID: 08-4495
Matrix: Soil
Date Analyzed: 03/13/08 21:34

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	65	130
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	120
129-00-0	Pyrene	65	92
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	65	< 65 U
117-81-7	bis(2-Ethylhexyl)phthalate	65	980
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo(b)fluoranthene	65	< 65 U
207-08-9	Benzo(k)fluoranthene	65	< 65 U
50-32-8	Benzo(a)pyrene	65	< 65 U
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U
90-12-0	1-Methylnaphthalene	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	40.8%	2-Fluorobiphenyl	47.2%
d14-p-Terphenyl	33.6%	d4-1,2-Dichlorobenzene	43.2%
d5-Phenol	47.2%	2-Fluorophenol	36.8%
2,4,6-Tribromophenol	49.6%	d4-2-Chlorophenol	43.2%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: B-4-13
SAMPLE

Lab Sample ID: ML68G
LIMS ID: 08-4498
Matrix: Soil
Data Release Authorized:
Reported: 03/18/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/04/08
Date Received: 03/06/08

Date Extracted: 03/12/08
Date Analyzed: 03/13/08 22:09
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 7.71 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 60.6%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	550
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	65	< 65 U
208-96-8	Acenaphthylene	65	72
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: B-4-13
SAMPLE

Lab Sample ID: ML68G
LIMS ID: 08-4498
Matrix: Soil
Date Analyzed: 03/13/08 22:09

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	65	160
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	120
129-00-0	Pyrene	65	74
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo (a) anthracene	65	< 65 U
117-81-7	bis (2-Ethylhexyl) phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo (b) fluoranthene	65	< 65 U
207-08-9	Benzo (k) fluoranthene	65	< 65 U
50-32-8	Benzo (a) pyrene	65	< 65 U
193-39-5	Indeno (1,2,3-cd) pyrene	65	< 65 U
53-70-3	Dibenz (a,h) anthracene	65	< 65 U
191-24-2	Benzo (g,h,i) perylene	65	< 65 U
90-12-0	1-Methylnaphthalene	65	< 65 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	53.2%	2-Fluorobiphenyl	59.6%
d14-p-Terphenyl	54.0%	d4-1,2-Dichlorobenzene	52.8%
d5-Phenol	60.0%	2-Fluorophenol	46.7%
2,4,6-Tribromophenol	75.5%	d4-2-Chlorophenol	58.1%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: B-4D-13
SAMPLE

Lab Sample ID: ML68H
LIMS ID: 08-4499
Matrix: Soil
Data Release Authorized:
Reported: 03/18/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/04/08
Date Received: 03/06/08

Date Extracted: 03/12/08
Date Analyzed: 03/13/08 22:44
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 7.65 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 33.8%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	140
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	65	< 65 U
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U

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Semivolatiles by SW8270D GC/MS
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Sample ID: B-4D-13
SAMPLE

Lab Sample ID: ML68H
LIMS ID: 08-4499
Matrix: Soil
Date Analyzed: 03/13/08 22:44

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	65	66
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	< 65 U
129-00-0	Pyrene	65	< 65 U
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo (a) anthracene	65	< 65 U
117-81-7	bis (2-Ethylhexyl) phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
205-99-2	Benzo (b) fluoranthene	65	< 65 U
207-08-9	Benzo (k) fluoranthene	65	< 65 U
50-32-8	Benzo (a) pyrene	65	< 65 U
193-39-5	Indeno (1,2,3-cd) pyrene	65	< 65 U
53-70-3	Dibenz (a,h) anthracene	65	< 65 U
191-24-2	Benzo (g,h,i) perylene	65	< 65 U
90-12-0	1-Methylnaphthalene	65	< 65 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.4%	2-Fluorobiphenyl	68.8%
d14-p-Terphenyl	66.0%	d4-1,2-Dichlorobenzene	62.8%
d5-Phenol	72.5%	2-Fluorophenol	56.5%
2,4,6-Tribromophenol	92.5%	d4-2-Chlorophenol	69.9%

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Semivolatiles by SW8270D GC/MS
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Sample ID: LCS-031208
LAB CONTROL

Lab Sample ID: LCS-031208
LIMS ID: 08-4495
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 03/18/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/04/08
Date Received: 03/06/08

Date Extracted: 03/12/08
Date Analyzed: 03/13/08 15:12
Instrument/Analyst: NT6/LJR
GPC Cleanup: NO

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Phenol	1230	1670	73.7%
Bis-(2-Chloroethyl) Ether	1040	1670	62.3%
2-Chlorophenol	1060	1670	63.5%
1,3-Dichlorobenzene	963	1670	57.7%
1,4-Dichlorobenzene	965	1670	57.8%
Benzyl Alcohol	1530	3330	45.9%
1,2-Dichlorobenzene	1010	1670	60.5%
2-Methylphenol	1150	1670	68.9%
2,2'-Oxybis(1-Chloropropane)	1120	1670	67.1%
4-Methylphenol	2380	3330	71.5%
N-Nitroso-Di-N-Propylamine	1110	1670	66.5%
Hexachloroethane	983	1670	58.9%
Nitrobenzene	1080	1670	64.7%
Isophorone	1180	1670	70.7%
2-Nitrophenol	1050	1670	62.9%
2,4-Dimethylphenol	1070	1670	64.1%
Benzoic Acid	4030	5000	80.6%
bis(2-Chloroethoxy) Methane	1090	1670	65.3%
2,4-Dichlorophenol	1140	1670	68.3%
1,2,4-Trichlorobenzene	999	1670	59.8%
Naphthalene	1010	1670	60.5%
4-Chloroaniline	2250	4000	56.2%
Hexachlorobutadiene	995	1670	59.6%
4-Chloro-3-methylphenol	1220	1670	73.1%
2-Methylnaphthalene	1130	1670	67.7%
Hexachlorocyclopentadiene	3020	5000	60.4%
2,4,6-Trichlorophenol	1200	1670	71.9%
2,4,5-Trichlorophenol	1130	1670	67.7%
2-Chloronaphthalene	1020	1670	61.1%
2-Nitroaniline	1220	1670	73.1%
Dimethylphthalate	1150	1670	68.9%
Acenaphthylene	1130	1670	67.7%
3-Nitroaniline	2930	4270	68.6%
Acenaphthene	1020	1670	61.1%
2,4-Dinitrophenol	3970	5000	79.4%
4-Nitrophenol	929	1670	55.6%
Dibenzofuran	1130	1670	67.7%

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Semivolatiles by SW8270D GC/MS
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Sample ID: LCS-031208
LAB CONTROL

Lab Sample ID: LCS-031208
LIMS ID: 08-4495
Matrix: Soil
Date Analyzed: 03/13/08 15:12

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

Analyte	Lab Control	Spike Added	Recovery
2,6-Dinitrotoluene	1170	1670	70.1%
2,4-Dinitrotoluene	1260	1670	75.4%
Diethylphthalate	1200	1670	71.9%
4-Chlorophenyl-phenylether	1160	1670	69.5%
Fluorene	1170	1670	70.1%
4-Nitroaniline	1170	1670	70.1%
4,6-Dinitro-2-Methylphenol	3590	5000	71.8%
N-Nitrosodiphenylamine	1440	1670	86.2%
4-Bromophenyl-phenylether	1140	1670	68.3%
Hexachlorobenzene	1160	1670	69.5%
Pentachlorophenol	1380	1670	82.6%
Phenanthrene	1160	1670	69.5%
Carbazole	1320	1670	79.0%
Anthracene	1180	1670	70.7%
Di-n-Butylphthalate	1290	1670	77.2%
Fluoranthene	1390	1670	83.2%
Pyrene	1070	1670	64.1%
Butylbenzylphthalate	1140	1670	68.3%
3,3'-Dichlorobenzidine	2390	4270	56.0%
Benzo(a)anthracene	1160	1670	69.5%
bis(2-Ethylhexyl)phthalate	1390	1670	83.2%
Chrysene	1190	1670	71.3%
Di-n-Octyl phthalate	1220	1670	73.1%
Benzo(b)fluoranthene	1260	1670	75.4%
Benzo(k)fluoranthene	1400	1670	83.8%
Benzo(a)pyrene	1260	1670	75.4%
Indeno(1,2,3-cd)pyrene	865	1670	51.8%
Dibenz(a,h)anthracene	1060	1670	63.5%
Benzo(g,h,i)perylene	957	1670	57.3%
1-Methylnaphthalene	1080	1670	64.7%

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.0%
2-Fluorobiphenyl	64.0%
d14-p-Terphenyl	70.4%
d4-1,2-Dichlorobenzene	60.0%
d5-Phenol	73.3%
2-Fluorophenol	62.1%
2,4,6-Tribromophenol	85.9%
d4-2-Chlorophenol	66.1%

Results reported in µg/kg

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: MB-031708
METHOD BLANK

Lab Sample ID: MB-031708
LIMS ID: 08-4492
Matrix: Soil
Data Release Authorized: 
Reported: 03/24/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: NA
Date Received: NA

Date Extracted: 03/17/08
Date Analyzed: 03/18/08 20:13
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	67	< 67 U
111-44-4	Bis-(2-Chloroethyl) Ether	67	< 67 U
95-57-8	2-Chlorophenol	67	< 67 U
541-73-1	1,3-Dichlorobenzene	67	< 67 U
106-46-7	1,4-Dichlorobenzene	67	< 67 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	67	< 67 U
95-48-7	2-Methylphenol	67	< 67 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	67	< 67 U
106-44-5	4-Methylphenol	67	< 67 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	67	< 67 U
98-95-3	Nitrobenzene	67	< 67 U
78-59-1	Isophorone	67	< 67 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	67	< 67 U
65-85-0	Benzoic Acid	670	< 670 U
111-91-1	bis(2-Chloroethoxy) Methane	67	< 67 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	67	< 67 U
91-20-3	Naphthalene	67	< 67 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	67	< 67 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	67	< 67 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	67	< 67 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	67	< 67 U
51-28-5	2,4-Dinitrophenol	670	< 670 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	67	< 67 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U

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Semivolatiles by SW8270D GC/MS
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Sample ID: MB-031708
METHOD BLANK

Lab Sample ID: MB-031708
LIMS ID: 08-4492
Matrix: Soil
Date Analyzed: 03/18/08 20:13

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	67	< 67 U
7005-72-3	4-Chlorophenyl-phenylether	67	< 67 U
86-73-7	Fluorene	67	< 67 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670	< 670 U
86-30-6	N-Nitrosodiphenylamine	67	< 67 U
101-55-3	4-Bromophenyl-phenylether	67	< 67 U
118-74-1	Hexachlorobenzene	67	< 67 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	67	< 67 U
86-74-8	Carbazole	67	< 67 U
120-12-7	Anthracene	67	< 67 U
84-74-2	Di-n-Butylphthalate	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
85-68-7	Butylbenzylphthalate	67	< 67 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	67	< 67 U
117-81-7	bis(2-Ethylhexyl)phthalate	67	< 67 U
218-01-9	Chrysene	67	< 67 U
117-84-0	Di-n-Octyl phthalate	67	< 67 U
205-99-2	Benzo(b)fluoranthene	67	< 67 U
207-08-9	Benzo(k)fluoranthene	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U
90-12-0	1-Methylnaphthalene	67	< 67 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	63.2%	2-Fluorobiphenyl	66.0%
d14-p-Terphenyl	84.8%	d4-1,2-Dichlorobenzene	63.6%
d5-Phenol	64.3%	2-Fluorophenol	14.8%
2,4,6-Tribromophenol	81.3%	d4-2-Chlorophenol	65.6%

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Semivolatiles by SW8270D GC/MS
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Sample ID: B-5-10.5
SAMPLE

Lab Sample ID: ML68A
LIMS ID: 08-4492
Matrix: Soil
Data Release Authorized:
Reported: 03/24/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/04/08
Date Received: 03/06/08

Date Extracted: 03/17/08
Date Analyzed: 03/20/08 21:16
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.76 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 8.9%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U

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Semivolatiles by SW8270D GC/MS
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Sample ID: B-5-10.5
SAMPLE

Lab Sample ID: ML68A
LIMS ID: 08-4492
Matrix: Soil
Date Analyzed: 03/20/08 21:16

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo (a) anthracene	64	< 64 U
117-81-7	bis (2-Ethylhexyl) phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo (b) fluoranthene	64	< 64 U
207-08-9	Benzo (k) fluoranthene	64	< 64 U
50-32-8	Benzo (a) pyrene	64	< 64 U
193-39-5	Indeno (1,2,3-cd) pyrene	64	< 64 U
53-70-3	Dibenz (a,h) anthracene	64	< 64 U
191-24-2	Benzo (g,h,i) perylene	64	< 64 U
90-12-0	1-Methylnaphthalene	64	< 64 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	59.2%	2-Fluorobiphenyl	66.0%
d14-p-Terphenyl	67.6%	d4-1,2-Dichlorobenzene	63.2%
d5-Phenol	55.5%	2-Fluorophenol	18.1%
2,4,6-Tribromophenol	59.7%	d4-2-Chlorophenol	57.1%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: B-9-12
SAMPLE

Lab Sample ID: ML68B
LIMS ID: 08-4493
Matrix: Soil
Data Release Authorized:
Reported: 03/24/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/04/08
Date Received: 03/06/08

Date Extracted: 03/17/08
Date Analyzed: 03/20/08 21:50
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.90 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 12.2%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	70
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	63	< 63 U
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U

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Semivolatiles by SW8270D GC/MS
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Sample ID: B-9-12
SAMPLE

Lab Sample ID: ML68B
LIMS ID: 08-4493
Matrix: Soil
Date Analyzed: 03/20/08 21:50

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
205-99-2	Benzo(b)fluoranthene	63	< 63 U
207-08-9	Benzo(k)fluoranthene	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U
90-12-0	1-Methylnaphthalene	63	< 63 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	58.8%	2-Fluorobiphenyl	63.6%
d14-p-Terphenyl	68.4%	d4-1,2-Dichlorobenzene	60.8%
d5-Phenol	57.3%	2-Fluorophenol	20.6%
2,4,6-Tribromophenol	80.5%	d4-2-Chlorophenol	59.7%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: B-9-7
SAMPLE

Lab Sample ID: ML68C
LIMS ID: 08-4494
Matrix: Soil
Data Release Authorized: 
Reported: 03/24/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/04/08
Date Received: 03/06/08

Date Extracted: 03/17/08
Date Analyzed: 03/20/08 22:25
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.59 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 24.3%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	530
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	3,000
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: B-9-7
SAMPLE

Lab Sample ID: ML68C
LIMS ID: 08-4494
Matrix: Soil
Date Analyzed: 03/20/08 22:25

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo (a) anthracene	66	< 66 U
117-81-7	bis (2-Ethylhexyl) phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo (b) fluoranthene	66	< 66 U
207-08-9	Benzo (k) fluoranthene	66	< 66 U
50-32-8	Benzo (a) pyrene	66	< 66 U
193-39-5	Indeno (1,2,3-cd) pyrene	66	< 66 U
53-70-3	Dibenz (a,h) anthracene	66	< 66 U
191-24-2	Benzo (g,h,i) perylene	66	< 66 U
90-12-0	1-Methylnaphthalene	66	< 66 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.8%	2-Fluorobiphenyl	69.6%
d14-p-Terphenyl	83.6%	d4-1,2-Dichlorobenzene	64.8%
d5-Phenol	65.3%	2-Fluorophenol	23.3%
2,4,6-Tribromophenol	90.9%	d4-2-Chlorophenol	65.6%



Lab Sample ID: ML68F
LIMS ID: 08-4497
Matrix: Soil
Data Release Authorized: 
Reported: 03/24/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/04/08
Date Received: 03/06/08

Date Extracted: 03/17/08
Date Analyzed: 03/20/08 23:00
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.52 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 6.0%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U

Lab Sample ID: ML68F
 LIMS ID: 08-4497
 Matrix: Soil
 Date Analyzed: 03/20/08 23:00

QC Report No: ML68-Parametrix, Inc.
 Project: Yakima
 555-5753-001-02-022

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo (a) anthracene	66	< 66 U
117-81-7	bis (2-Ethylhexyl) phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo (b) fluoranthene	66	< 66 U
207-08-9	Benzo (k) fluoranthene	66	< 66 U
50-32-8	Benzo (a) pyrene	66	< 66 U
193-39-5	Indeno (1,2,3-cd) pyrene	66	< 66 U
53-70-3	Dibenz (a,h) anthracene	66	< 66 U
191-24-2	Benzo (g,h,i) perylene	66	< 66 U
90-12-0	1-Methylnaphthalene	66	< 66 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.8%	2-Fluorobiphenyl	65.6%
d14-p-Terphenyl	76.0%	d4-1,2-Dichlorobenzene	65.2%
d5-Phenol	55.2%	2-Fluorophenol	18.1%
2,4,6-Tribromophenol	84.0%	d4-2-Chlorophenol	60.3%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: LCS-031708
LCS/LCSD

Lab Sample ID: LCS-031708
LIMS ID: 08-4492
Matrix: Soil
Data Release Authorized:
Reported: 03/24/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/04/08
Date Received: 03/06/08

Date Extracted LCS/LCSD: 03/17/08

Sample Amount LCS: 7.50 g
LCSD: 7.50 g

Date Analyzed LCS: 03/18/08 20:49
LCSD: 03/18/08 21:24

Final Extract Volume LCS: 0.5 mL
LCSD: 0.5 mL

Instrument/Analyst LCS: NT4/LJR
LCSD: NT4/LJR

Dilution Factor LCS: 1.00
LCSD: 1.00

GPC Cleanup: NO

Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	1070	1670	64.1%	1210	1670	72.5%	12.3%
Bis-(2-Chloroethyl) Ether	956	1670	57.2%	1030	1670	61.7%	7.5%
2-Chlorophenol	1070	1670	64.1%	1080	1670	64.7%	0.9%
1,3-Dichlorobenzene	921	1670	55.1%	1010	1670	60.5%	9.2%
1,4-Dichlorobenzene	944	1670	56.5%	1010	1670	60.5%	6.8%
Benzyl Alcohol	1750	3330	52.6%	1610	3330	48.3%	8.3%
1,2-Dichlorobenzene	974	1670	58.3%	1040	1670	62.3%	6.6%
2-Methylphenol	1130	1670	67.7%	1110	1670	66.5%	1.8%
2,2'-Oxybis(1-Chloropropane)	880	1670	52.7%	938	1670	56.2%	6.4%
4-Methylphenol	2260	3330	67.9%	2240	3330	67.3%	0.9%
N-Nitroso-Di-N-Propylamine	1070	1670	64.1%	1140	1670	68.3%	6.3%
Hexachloroethane	917	1670	54.9%	999	1670	59.8%	8.6%
Nitrobenzene	943	1670	56.5%	1020	1670	61.1%	7.8%
Isophorone	1170	1670	70.1%	1230	1670	73.7%	5.0%
2-Nitrophenol	1070	1670	64.1%	1130	1670	67.7%	5.5%
2,4-Dimethylphenol	1050	1670	62.9%	1090	1670	65.3%	3.7%
Benzoic Acid	3750	5000	75.0%	3720	5000	74.4%	0.8%
bis(2-Chloroethoxy) Methane	1090	1670	65.3%	1150	1670	68.9%	5.4%
2,4-Dichlorophenol	1150	1670	68.9%	1170	1670	70.1%	1.7%
1,2,4-Trichlorobenzene	971	1670	58.1%	1050	1670	62.9%	7.8%
Naphthalene	1020	1670	61.1%	1100	1670	65.9%	7.5%
4-Chloroaniline	2050	4000	51.2%	2060	4000	51.5%	0.5%
Hexachlorobutadiene	951	1670	56.9%	1020	1670	61.1%	7.0%
4-Chloro-3-methylphenol	1240	1670	74.3%	1220	1670	73.1%	1.6%
2-Methylnaphthalene	1130	1670	67.7%	1180	1670	70.7%	4.3%
Hexachlorocyclopentadiene	3620	5000	72.4%	3880	5000	77.6%	6.9%
2,4,6-Trichlorophenol	1230	1670	73.7%	1290	1670	77.2%	4.8%
2,4,5-Trichlorophenol	1220	1670	73.1%	1150	1670	68.9%	5.9%
2-Chloronaphthalene	1110	1670	66.5%	1140	1670	68.3%	2.7%
2-Nitroaniline	1180	1670	70.7%	1180	1670	70.7%	0.0%
Dimethylphthalate	1290	1670	77.2%	1290	1670	77.2%	0.0%
Acenaphthylene	1260	1670	75.4%	1290	1670	77.2%	2.4%
3-Nitroaniline	2620	4270	61.4%	2580	4270	60.4%	1.5%
Acenaphthene	1170	1670	70.1%	1200	1670	71.9%	2.5%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: LCSD-031708
LCS/LCSD

Lab Sample ID: LCS-031708
LIMS ID: 08-4492
Matrix: Soil
Date Analyzed LCS: 03/18/08 20:49
LCSD: 03/18/08 21:24

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
2,4-Dinitrophenol	4220	5000	84.4%	4330	5000	86.6%	2.6%
4-Nitrophenol	1170	1670	70.1%	1150	1670	68.9%	1.7%
Dibenzofuran	1200	1670	71.9%	1230	1670	73.7%	2.5%
2,6-Dinitrotoluene	1390	1670	83.2%	1380	1670	82.6%	0.7%
2,4-Dinitrotoluene	1430	1670	85.6%	1380	1670	82.6%	3.6%
Diethylphthalate	1390	1670	83.2%	1390	1670	83.2%	0.0%
4-Chlorophenyl-phenylether	1230	1670	73.7%	1260	1670	75.4%	2.4%
Fluorene	1260	1670	75.4%	1270	1670	76.0%	0.8%
4-Nitroaniline	1180	1670	70.7%	1190	1670	71.3%	0.8%
4,6-Dinitro-2-Methylphenol	3450	5000	69.0%	3500	5000	70.0%	1.4%
N-Nitrosodiphenylamine	1580	1670	94.6%	1600	1670	95.8%	1.3%
4-Bromophenyl-phenylether	1160	1670	69.5%	1180	1670	70.7%	1.7%
Hexachlorobenzene	1120	1670	67.1%	1160	1670	69.5%	3.5%
Pentachlorophenol	1190	1670	71.3%	1220	1670	73.1%	2.5%
Phenanthrene	1200	1670	71.9%	1260	1670	75.4%	4.9%
Carbazole	1260	1670	75.4%	1270	1670	76.0%	0.8%
Anthracene	1210	1670	72.5%	1200	1670	71.9%	0.8%
Di-n-Butylphthalate	1390	1670	83.2%	1400	1670	83.8%	0.7%
Fluoranthene	1280	1670	76.6%	1300	1670	77.8%	1.6%
Pyrene	1300	1670	77.8%	1290	1670	77.2%	0.8%
Butylbenzylphthalate	1410	1670	84.4%	1410	1670	84.4%	0.0%
3,3'-Dichlorobenzidine	2180	4270	51.1%	2060	4270	48.2%	5.7%
Benzo(a)anthracene	1250	1670	74.9%	1250	1670	74.9%	0.0%
bis(2-Ethylhexyl)phthalate	1360	1670	81.4%	1380	1670	82.6%	1.5%
Chrysene	1260	1670	75.4%	1250	1670	74.9%	0.8%
Di-n-Octyl phthalate	1240	1670	74.3%	1260	1670	75.4%	1.6%
Benzo(b)fluoranthene	1360	1670	81.4%	1270	1670	76.0%	6.8%
Benzo(k)fluoranthene	1200	1670	71.9%	1390	1670	83.2%	14.7%
Benzo(a)pyrene	1250	1670	74.9%	1280	1670	76.6%	2.4%
Indeno(1,2,3-cd)pyrene	1080	1670	64.7%	1090	1670	65.3%	0.9%
Dibenz(a,h)anthracene	1100	1670	65.9%	1110	1670	66.5%	0.9%
Benzo(g,h,i)perylene	1030	1670	61.7%	990	1670	59.3%	4.0%
1-Methylnaphthalene	1150	1670	68.9%	1200	1670	71.9%	4.3%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	61.2%	65.2%
2-Fluorobiphenyl	70.0%	72.0%
d14-p-Terphenyl	81.2%	78.4%
d4-1,2-Dichlorobenzene	58.0%	63.6%
d5-Phenol	61.3%	61.1%
2-Fluorophenol	14.8%	14.7%
2,4,6-Tribromophenol	86.4%	85.6%
d4-2-Chlorophenol	64.0%	65.1%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Soil

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Received: 03/06/08

Data Release Authorized: 
Reported: 03/17/08

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-031108 08-4492	Method Blank HC ID: ---	03/11/08	03/13/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.0 10	< 5.0 U < 10 U 83.3%
ML68A 08-4492	B-5-10.5 HC ID: DRO/MOTOR OIL	03/11/08	03/13/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.5 11	24 85 94.7%
ML68B 08-4493	B-9-12 HC ID: DRO/MOTOR OIL	03/11/08	03/13/08 FID3A	1.00 5.0	Diesel Motor Oil o-Terphenyl	28 57	180 840 93.2%
ML68C 08-4494	B-9-7 HC ID: DRO/MOTOR OIL	03/11/08	03/13/08 FID3A	1.00 5.0	Diesel Motor Oil o-Terphenyl	33 66	370 1,500 72.8%
ML68D 08-4495	BOILER DRAIN HC ID: DRO/MOTOR OIL	03/11/08	03/13/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	11 22	92 700 86.4%
ML68E 08-4496	B-8-14 HC ID: ---	03/11/08	03/13/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.4 11	< 5.4 U < 11 U 90.2%
ML68F 08-4497	B-7-14 HC ID: ---	03/11/08	03/13/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.3 11	< 5.3 U < 11 U 98.9%
ML68G 08-4498	B-4-13 HC ID: DRO/MOTOR OIL	03/11/08	03/13/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	13 25	96 400 90.7%
ML68H 08-4499	B-4D-13 HC ID: DRO/RRO	03/11/08	03/13/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	7.6 15	46 190 89.8%
ML68I 08-4500	B-6-14 HC ID: ---	03/11/08	03/13/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.4 11	< 5.4 U < 11 U 84.4%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

ORGANICS ANALYSIS DATA SHEET

NWIPHD by GC/FID

Page 1 of 1

Sample ID: LCS-031108

LAB CONTROL

Lab Sample ID: LCS-031108

LIMS ID: 08-4492

Matrix: Soil

Data Release Authorized: 

Reported: 03/17/08

QC Report No: ML68-Parametrix, Inc.

Project: Yakima

555-5753-001-02-022

Date Sampled: NA

Date Received: NA

Date Extracted: 03/11/08

Date Analyzed: 03/12/08 21:14

Instrument/Analyst: FID3A/MS

Sample Amount: 10.0 g

Final Extract Volume: 1.0 mL

Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	107	150	71.3%

TPHD Surrogate Recovery

o-Terphenyl	90.2%
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Results reported in mg/kg

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080313.b/0313a012.d
Method: /chem3/fid3a.i/20080313.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/17/2008
Macro: FID:3A030808

ARI ID: ML66MBS1
Client ID:
Injection: 13-MAR-2008 18:39
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.779	0.021	17090	14927	GAS (Tol-C12)	647699	16
C8	1.946	0.001	7853	2501	DIESEL (C12-C24)	540243	29
C10	2.666	-0.006	6925	10387	M.OIL (C24-C38)	658157	69
C12	3.154	0.000	6183	3942	AK-102 (C10-C25)	748411	34
C14	3.524	-0.003	5868	4775	AK-103 (C25-C36)	532851	90
C16	3.836	-0.001	5632	898			
C18	4.103	-0.008	5432	4638			
C20	4.345	-0.021	14141	59133	JET-A (C10-C18)	527521	37
C22	4.598	-0.001	6321	3638	MIN.OIL (C24-C38)	658157	53
C24	4.826	0.009	5545	4414	MSPIRIT (Tol-C12)	647699	41
C25	4.924	0.001	6336	6098	TRANOIL (C12-C28)	685252	45
C26	5.013	-0.013	6269	8987	KEROSEN (Tol-C18)	967051	63
C28	5.228	0.000	7479	4572			
C32	5.623	0.004	9772	6594	FUEL OIL(C10-C24)	748411	1
C34	5.849	0.005	9509	19592			
Filter Peak	7.608	-0.002	6249	1621	JP-4 (Tol-C14)	778118	68
C36	6.127	0.003	7813	3275	CREOSOT (C8-C22)	938841	90
C38	6.483	0.005	7264	4337	HYDRAUL (C24-C38)	658157	74
C40	6.951	-0.003	6636	3708	BUNKERC (C10-C38)	1406568	269

Range Times: NW Diesel(3.204 - 4.868) NW Gas(1.708 - 3.204) NW M.Oil(4.868 - 6.528)
AK102(2.623 - 4.874) AK103(4.874 - 6.174) Jet A(2.623 - 4.160)

JK 03/17/08

Surrogate	Area	Amount	%Rec
o-Terphenyl	704142	37.5	83.4
Triacontane	697312	45.8	101.8

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080313.b/0313a012.d

Date: 13-MAR-2008 18:39

Client ID:

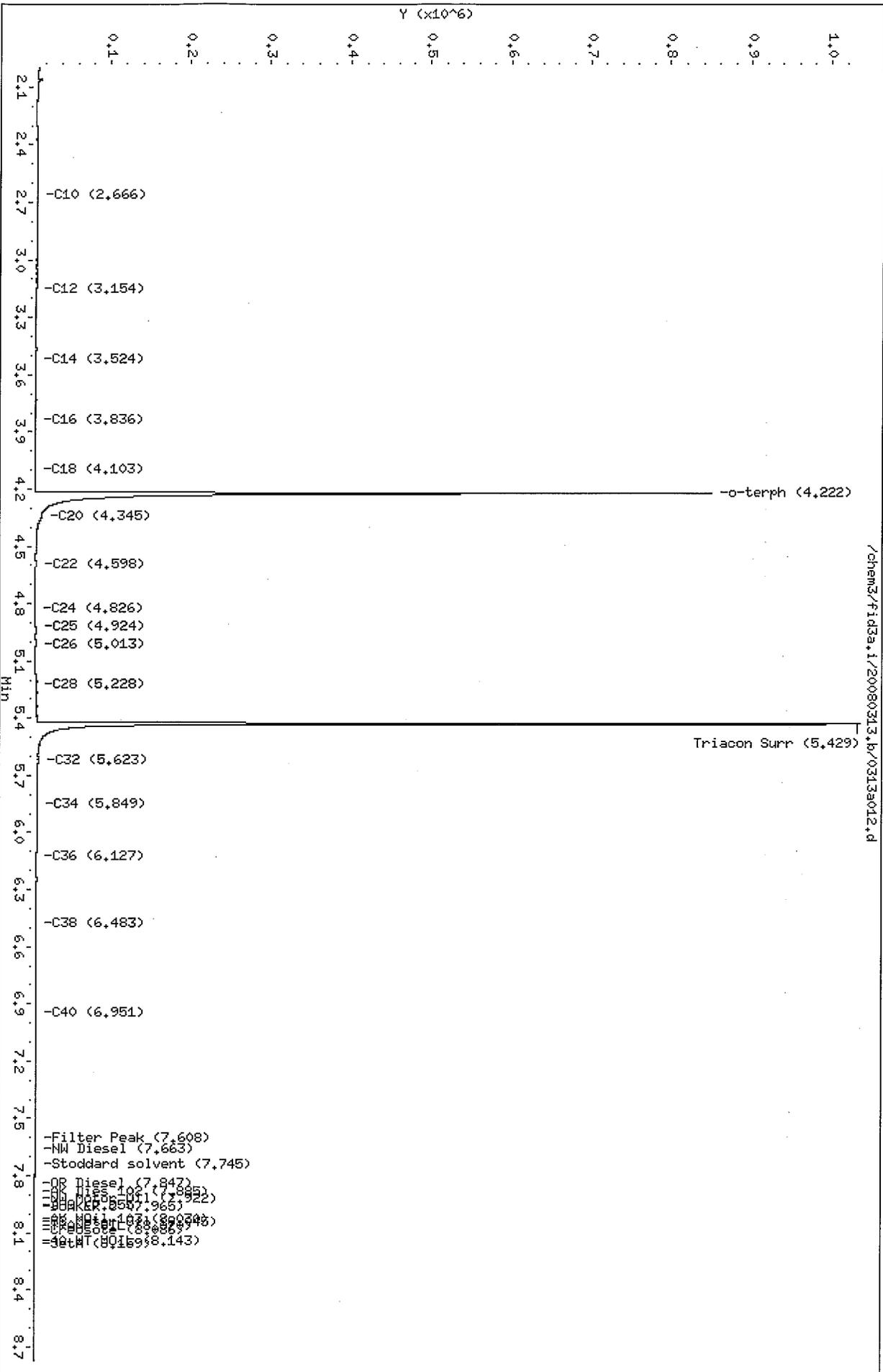
Sample Info: HL66HBS1

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080312b.b/0312a060.d
Method: /chem3/fid3a.i/20080312b.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/13/2008
Macro: FID:3A030808

ARI ID: ML66LCSS1
Client ID:
Injection: 12-MAR-2008 21:14
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.781	0.020	31092	39438	GAS (Tol-C12)	4577676	112 ✓
C8	1.943	-0.005	13642	16331	DIESEL (C12-C24)	19576541	1068
C10	2.673	-0.001	238856	225059	M.OIL (C24-C38)	1159020	121 ✓
C12	3.146	-0.006	656182	327879	AK-102 (C10-C25)	23077000	1039
C14	3.522	-0.001	234069	95993	AK-103 (C25-C36)	980185	165
C16	3.830	-0.006	932320	628350			
C18	4.113	0.001	651251	550156			
C20	4.365	-0.002	516729	372307	JET-A (C10-C18)	17282825	1215
C22	4.596	-0.005	220899	158625	MIN.OIL (C24-C38)	1159020	93
C24	4.813	-0.007	91583	93946	MSPRIT (Tol-C12)	4577676	289
C25	4.918	-0.009	54021	60804	TRANOIL (C12-C28)	20058943	1316
C26	5.020	-0.011	33056	47901	KEROSEN (Tol-C18)	18360041	1190
C28	5.241	0.009	15768	19833			
C32	5.626	0.003	10985	1755	FUEL OIL(C10-C24)	23077000	43
C34	5.857	0.008	11015	10471			
Filter Peak	7.605	0.001	8081	2744	JP-4 (Tol-C14)	9156026	806
C36	6.130	0.001	9642	7114	CREOSOT (C8-C22)	23197311	2225
C38	6.491	0.005	9120	11978	HYDRAUL (C24-C38)	1159020	130
C40	6.955	-0.004	8358	5165	BUNKERC (C10-C38)	24236020	4636

Range Times: NW Diesel(3.202 - 4.870) NW Gas(1.711 - 3.202) NW M.Oil(4.870 - 6.536)
AK102(2.624 - 4.877) AK103(4.877 - 6.179) Jet A(2.624 - 4.161)

Surrogate	Area	Amount	%Rec
o-Terphenyl	762137	40.6	90.3
Triacontane	724477	47.6	105.8

m? 3/13/08

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080312b.b/0312a060.d

Date: 12-MAR-2008 21:14

Client ID:

Sample Info: HL66LCSS1

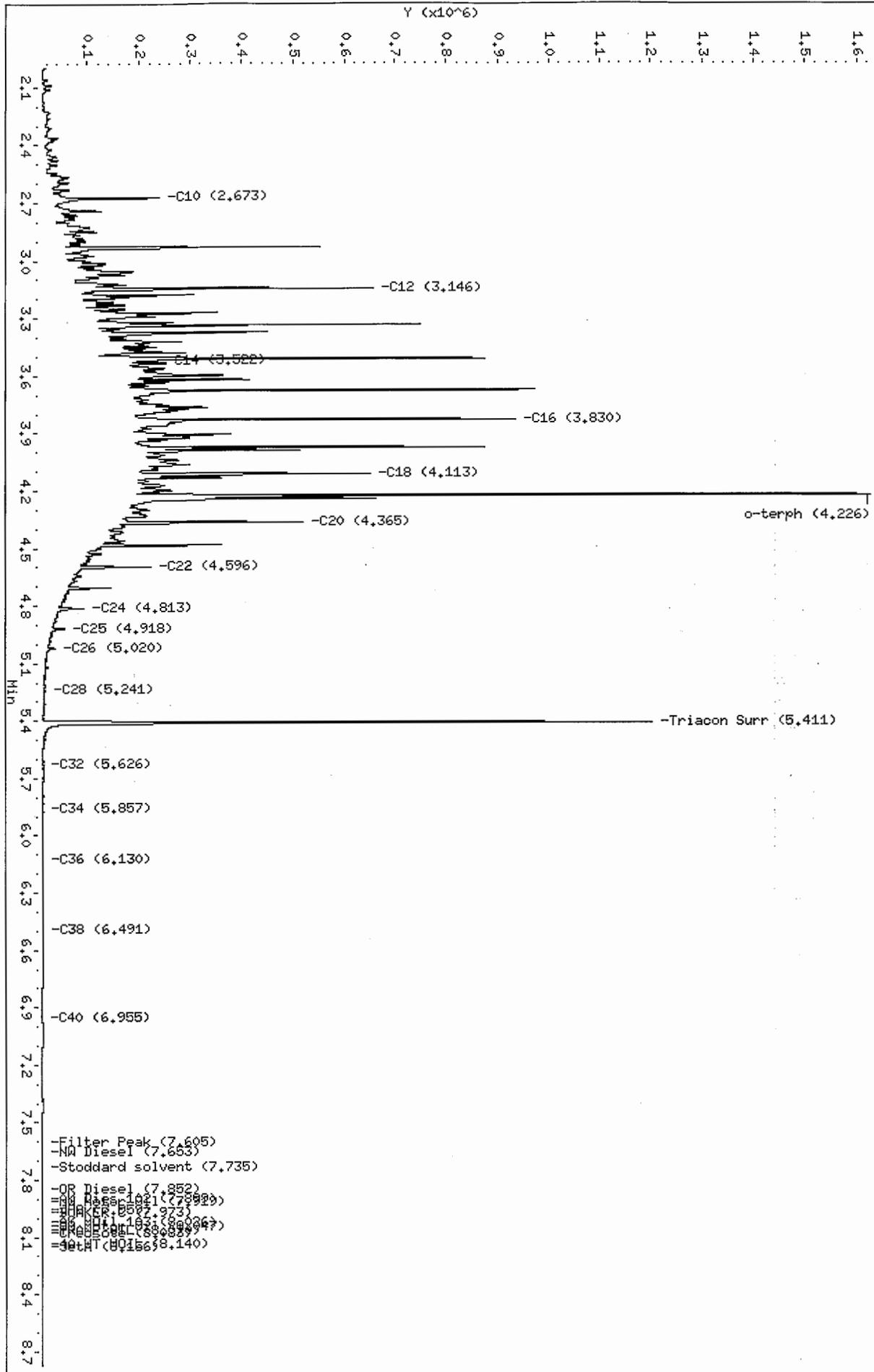
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080312b.b/0312a071.d
Method: /chem3/fid3a.i/20080312b.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/13/2008
Macro: FID:3A030808

ARI ID: ML68A
Client ID:
Injection: 13-MAR-2008 00:05
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.764	0.003	21736	15726	GAS (Tol-C12)	842128	21
C8	1.956	0.009	9453	3208	DIESEL (C12-C24)	3949900	215
C10	2.675	0.002	8092	1938	M.OIL (C24-C38)	7479273	779
C12	3.148	-0.004	8210	5731	AK-102 (C10-C25)	4213732	190
C14	3.525	0.002	9079	10205	AK-103 (C25-C36)	7152309	1208
C16	3.828	-0.008	11130	8091			
C18	4.112	0.001	32913	28895			
C20	4.364	-0.003	57010	44302	JET-A (C10-C18)	917874	65
C22	4.598	-0.003	100654	97350	MIN.OIL (C24-C38)	7479273	599
C24	4.815	-0.005	151732	58697	MSPRIT (Tol-C12)	842128	53
C25	4.930	0.003	178645	162266	TRANOIL (C12-C28)	7510268	493
C26	5.032	0.002	157358	52783	KEROSEN (Tol-C18)	1496170	97
C28	5.234	0.002	137302	32808			
C32	5.628	0.005	78671	37471	FUEL OIL(C10-C24)	4213732	8
C34	5.851	0.002	42177	10868			
Filter Peak	7.602	-0.002	8350	3496	JP-4 (Tol-C14)	1034124	91
C36	6.128	-0.001	22008	10429	CREOSOT (C8-C22)	2807528	269
C38	6.486	0.000	13901	11167	HYDRAUL (C24-C38)	7479273	840
C40	6.961	0.002	9771	4285	BUNKERC (C10-C38)	11693005	2236

DR2/MO

Range Times: NW Diesel(3.202 - 4.870) NW Gas(1.711 - 3.202) NW M.Oil(4.870 - 6.536)
AK102(2.624 - 4.877) AK103(4.877 - 6.179) Jet A(2.624 - 4.161)

Surrogate	Area	Amount	%Rec
o-Terphenyl	799669	42.6	94.7
Triacontane	697854	45.8	101.9

mo- 3/13/08

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080312b.b/0312a071.d

Date: 13-MAR-2008 00:05

Client ID:

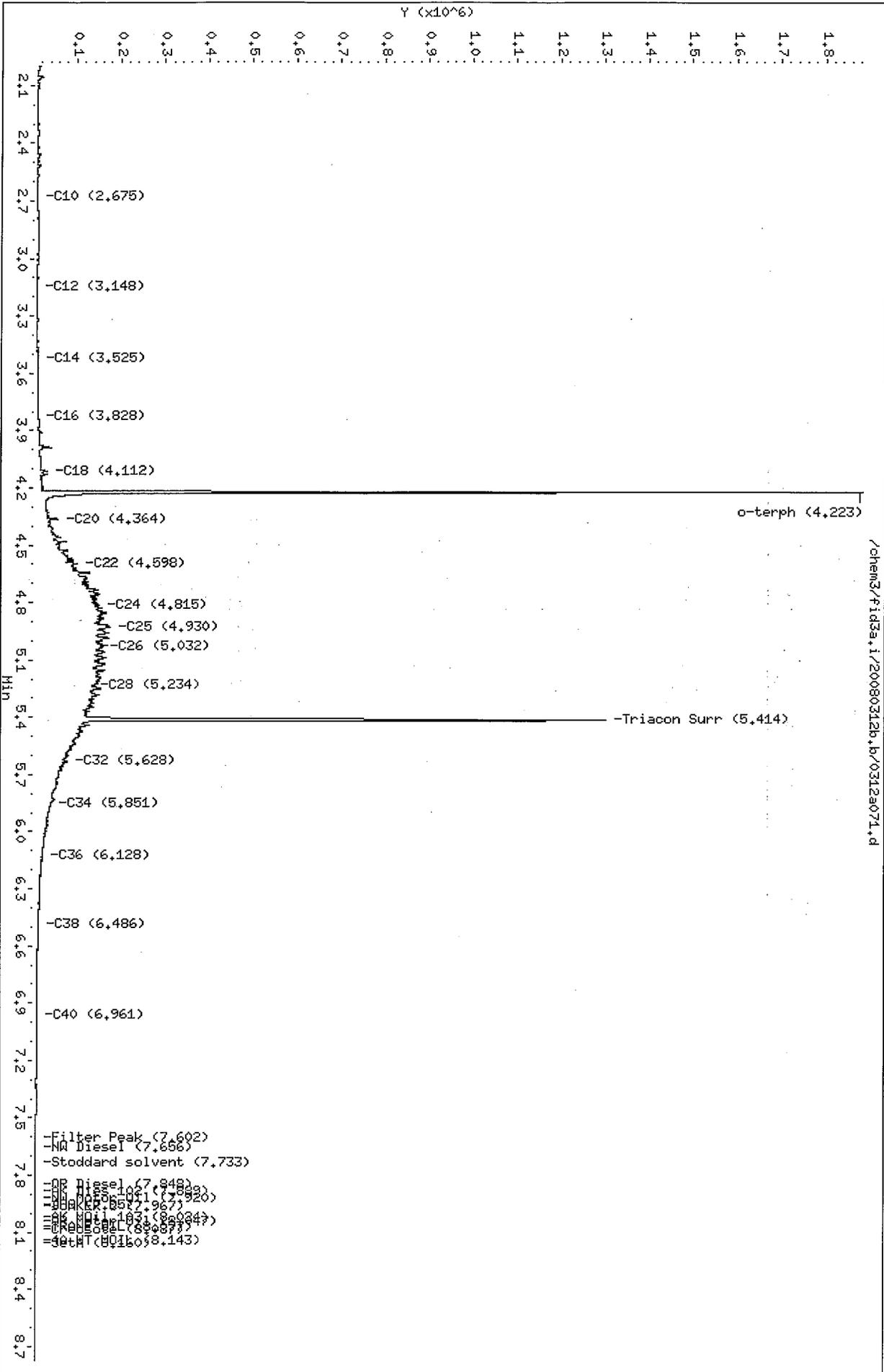
Sample Info: HL68A

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080313.b/0313a017.d
Method: /chem3/fid3a.i/20080313.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/17/2008
Macro: FID:3A030808

ARI ID: ML68B
Client ID:
Injection: 13-MAR-2008 19:57
Dilution Factor: 5

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.775	0.017	11595	7360	GAS (Tol-C12)	525144	13
C8	1.946	0.001	7481	5624	DIESEL (C12-C24)	5678568	310
C10	2.666	-0.007	6635	15590	M.OIL (C24-C38)	14253130	1484
C12	3.142	-0.012	6549	6775	AK-102 (C10-C25)	5948997	268
C14	3.517	-0.010	7560	9029	AK-103 (C25-C36)	13361668	2256
C16	3.839	0.002	9575	5856			
C18	4.105	-0.006	15902	3797			
C20	4.366	0.000	58475	38458	JET-A (C10-C18)	763892	54
C22	4.600	0.001	135941	141512	MIN.OIL (C24-C38)	14253130	1141
C24	4.813	-0.005	235321	229015	MSPRIT (Tol-C12)	525144	33
C25	4.922	-0.001	293749	180845	TRANOIL (C12-C28)	11990479	786
C26	5.028	0.002	277526	97965	KEROSEN (Tol-C18)	1091933	71
C28	5.228	0.000	258908	41040			
C32	5.612	-0.006	124687	97022	FUEL OIL(C10-C24)	5875671	11
C34	5.859	0.015	102901	48692			
Filter Peak	7.610	0.000	13472	2952	JP-4 (Tol-C14)	673234	59
C36	6.124	0.001	53962	18131	CREOSOT (C8-C22)	3365840	323
C38	6.479	0.001	33816	18105	HYDRAUL (C24-C38)	14253130	1602
C40	6.957	0.002	20244	9640	BUNKERC (C10-C38)	20128801	3850

Range Times: NW Diesel(3.204 - 4.868) NW Gas(1.708 - 3.204) NW M.Oil(4.868 - 6.528)
AK102(2.623 - 4.874) AK103(4.874 - 6.174) Jet A(2.623 - 4.160)

JR 03/17/08

Surrogate	Area	Amount	%Rec
o-Terphenyl	157392	8.4	93.2
Triacontane	125044	8.2	91.3

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080313.b/0313a017.d

Date: 13-MAR-2008 19:57

Client ID:

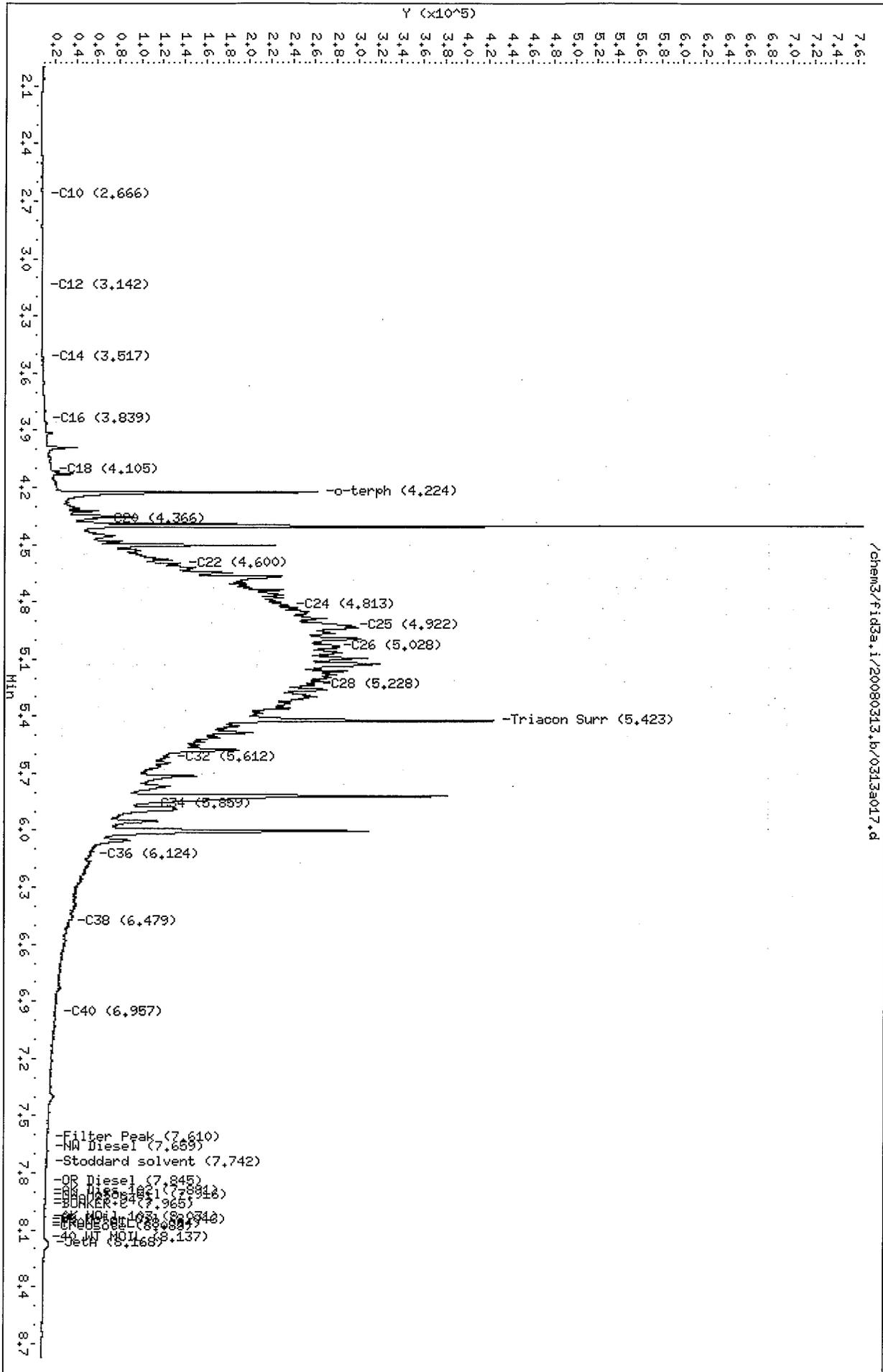
Sample Info: HL68B,5

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080313.b/0313a018.d
Method: /chem3/fid3a.i/20080313.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/17/2008
Macro: FID:3A030808

ARI ID: ML68C
Client ID:
Injection: 13-MAR-2008 20:12
Dilution Factor: 5

FID:3A RESULTS

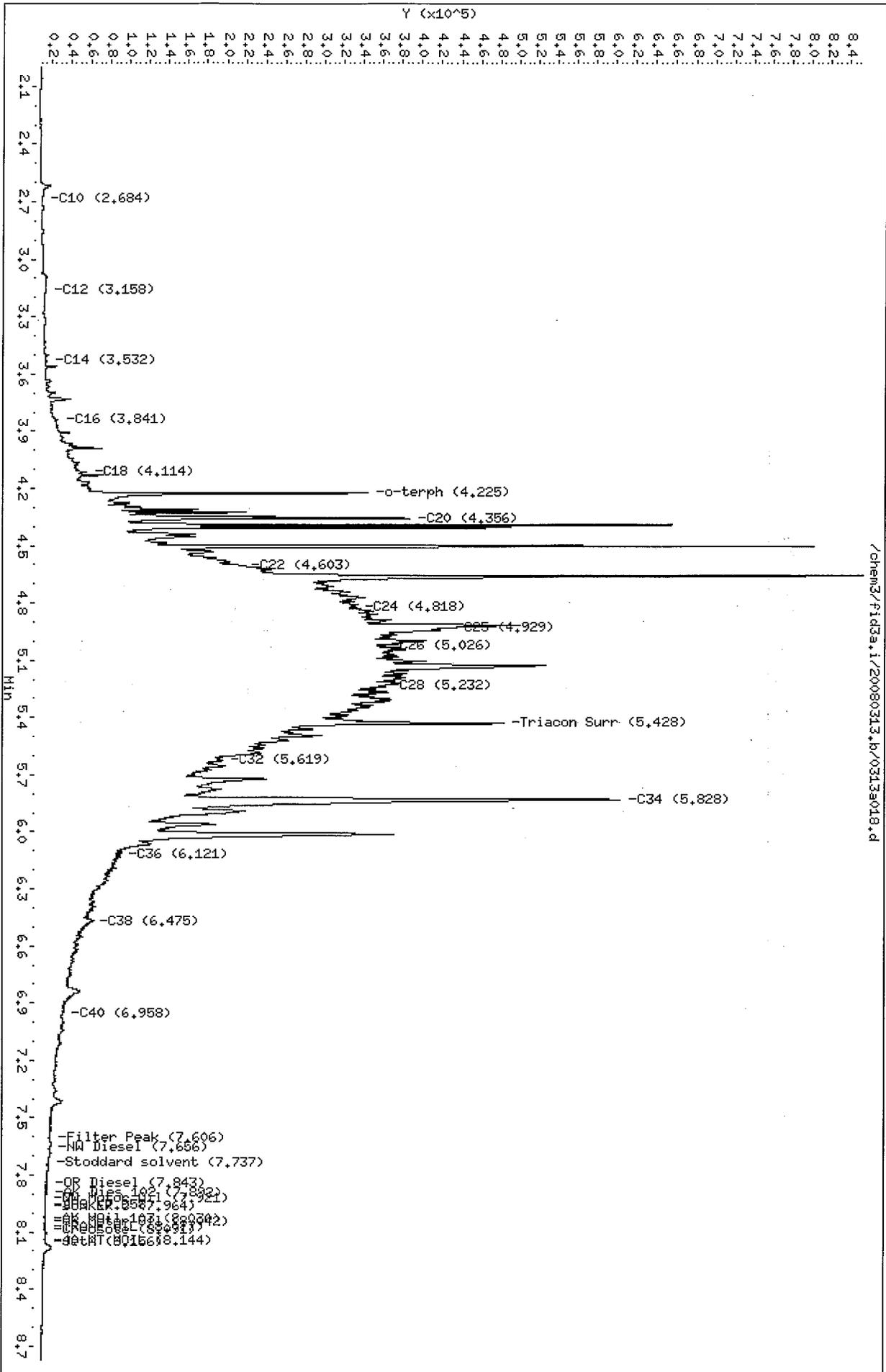
Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.773	0.014	11773	3518	GAS (Tol-C12)	698286	17
C8	1.944	0.000	7789	6483	DIESEL (C12-C24)	10362155	565
C10	2.684	0.012	8680	13636	M.OIL (C24-C38)	21231100	2210
C12	3.158	0.004	12351	7620	AK-102 (C10-C25)	10744170	484
C14	3.532	0.005	14506	19930	AK-103 (C25-C36)	19838520	3349
C16	3.841	0.004	24945	21837			
C18	4.114	0.004	54500	45210			
C20	4.356	-0.010	386583	308799	JET-A (C10-C18)	1518868	107
C22	4.603	0.004	216379	131113	MIN.OIL (C24-C38)	21231100	1699
C24	4.818	0.000	332099	79192	MSPIRIT (Tol-C12)	698286	44
C25	4.929	0.006	424696	125365	TRANOIL (C12-C28)	19003332	1246
C26	5.026	-0.001	358546	78328	KEROSEN (Tol-C18)	1910347	124
C28	5.232	0.004	359645	71488			
C32	5.619	0.000	193846	118041	FUEL OIL(C10-C24)	10668962	20
C34	5.828	-0.016	603902	1263412			
Filter Peak	7.606	-0.003	18208	10471	JP-4 (Tol-C14)	952718	84
C36	6.121	-0.003	89741	65859	CREOSOT (C8-C22)	6303766	605
C38	6.475	-0.003	59250	49907	HYDRAUL (C24-C38)	21231100	2386
C40	6.958	0.003	31004	7996	BUNKERC (C10-C38)	31900062	6101

Range Times: NW Diesel(3.204 - 4.868) NW Gas(1.708 - 3.204) NW M.Oil(4.868 - 6.528)
AK102(2.623 - 4.874) AK103(4.874 - 6.174) Jet A(2.623 - 4.160)

03/13/08

Surrogate	Area	Amount	%Rec
o-Terphenyl	122868	6.5	72.8
Triacontane	116012	7.6	84.7

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080312b.b/0312a074.d
Method: /chem3/fid3a.i/20080312b.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/13/2008
Macro: FID:3A030808

ARI ID: ML68D
Client ID:
Injection: 13-MAR-2008 00:52
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.758	-0.003	18534	10291	GAS (Tol-C12)	1226578	30
C8	1.945	-0.002	9917	1583	DIESEL (C12-C24)	7647130	417
C10	2.672	-0.001	13589	19619	M.OIL (C24-C38)	30633399	3189
C12	3.158	0.006	28131	82818	AK-102 (C10-C25)	8413099	379
C14	3.518	-0.006	29176	42968	AK-103 (C25-C36)	28894831	4878
C16	3.841	0.006	28094	19731			
C18	4.110	-0.001	41655	28522			
C20	4.361	-0.005	78934	73458	JET-A (C10-C18)	2125554	149
C22	4.597	-0.004	178045	240715	MIN.OIL (C24-C38)	30633399	2452
C24	4.820	0.000	300138	229988	MSPRIT (Tol-C12)	1226578	78
C25	4.914	-0.013	602335	630070	TRANOIL (C12-C28)	17939115	1177
C26	5.029	-0.002	442877	198993	KEROSEN (Tol-C18)	2771765	180
C28	5.236	0.004	524274	248221			
C32	5.627	0.004	387169	215649	FUEL OIL(C10-C24)	8227497	16
C34	5.847	-0.002	338226	157521			
Filter Peak	7.612	0.009	17685	4902	JP-4 (Tol-C14)	1701253	150
C36	6.129	0.000	117892	48516	CREOSOT (C8-C22)	5258816	505
C38	6.476	-0.011	118967	232947	HYDRAUL (C24-C38)	30633399	3442
C40	6.941	-0.017	43439	72691	BUNKERC (C10-C38)	38860896	7433

DRG/MO

Range Times: NW Diesel(3.202 - 4.870) NW Gas(1.711 - 3.202) NW M.Oil(4.870 - 6.536)
AK102(2.624 - 4.877) AK103(4.877 - 6.179) Jet A(2.624 - 4.161)

Surrogate	Area	Amount	%Rec
o-Terphenyl	729026	38.9	86.4
Triacotane	0	0.0	0.0

ms 3/13/08

NP

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080312b.b/0312a074.d

Date: 13-MAR-2008 00:52

Client ID:

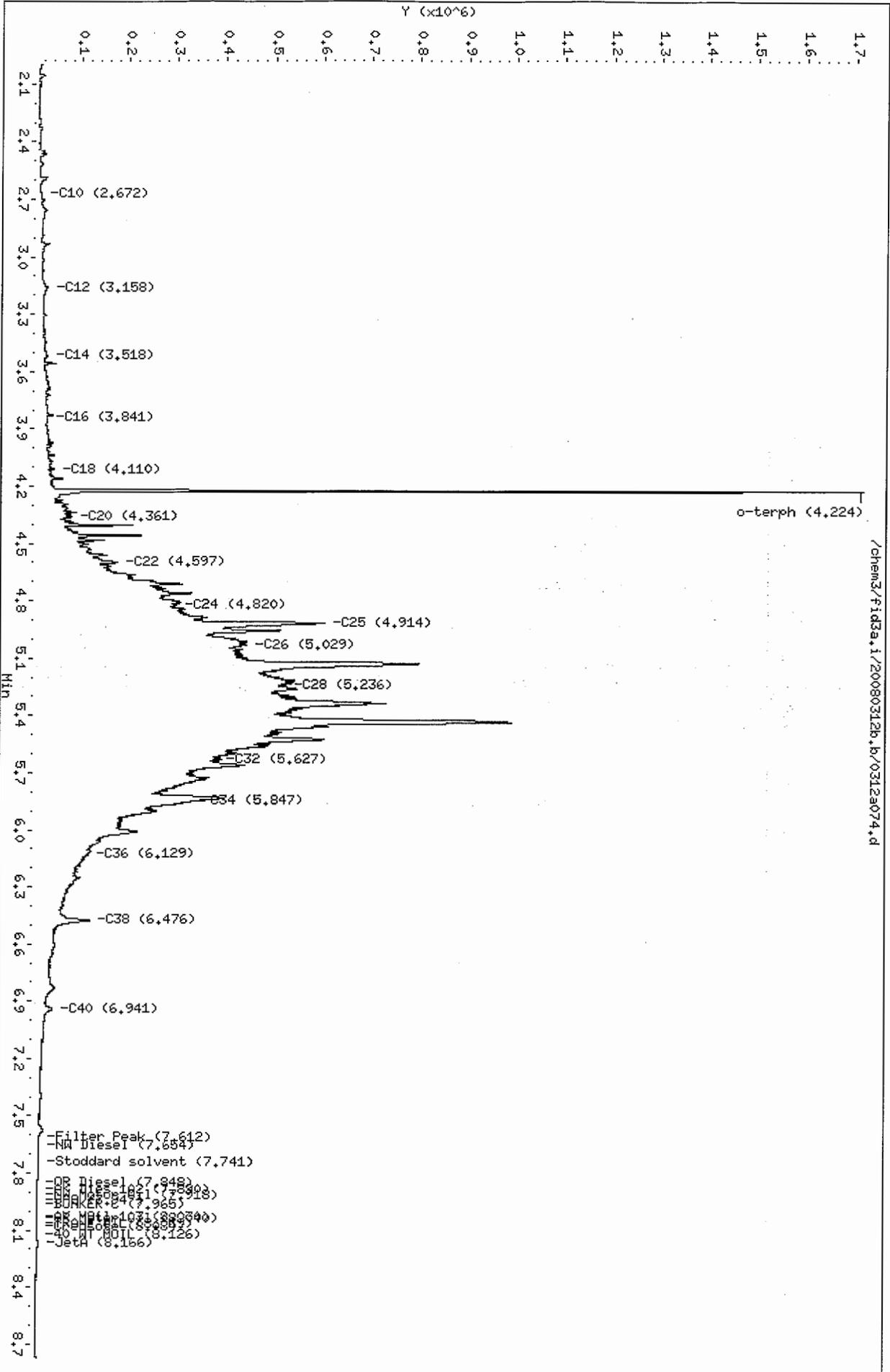
Sample Info: HL68D

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080313.b/0313a019.d
Method: /chem3/fid3a.i/20080313.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/17/2008
Macro: FID:3A030808

ARI ID: ML68E
Client ID:
Injection: 13-MAR-2008 20:28
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.783	0.025	17965	49380	GAS (Tol-C12)	629856	15
C8	1.943	-0.002	8242	16693	DIESEL (C12-C24)	534035	29
C10	2.665	-0.008	6828	10883	M.OIL (C24-C38)	876933	91
C12	3.161	0.006	6256	4119	AK-102 (C10-C25)	745584	34
C14	3.524	-0.003	5931	5905	AK-103 (C25-C36)	703472	119
C16	3.835	-0.002	5684	4502			
C18	4.106	-0.005	5664	3499			
C20	4.343	-0.023	11809	21625	JET-A (C10-C18)	516462	36
C22	4.604	0.004	8653	9319	MIN.OIL (C24-C38)	876933	70
C24	4.820	0.002	7760	5993	MSPIRIT (Tol-C12)	629856	40
C25	4.932	0.008	8193	7431	TRANOIL (C12-C28)	733953	48
C26	5.029	0.002	7722	7221	KEROSEN (Tol-C18)	934768	61
C28	5.221	-0.008	12302	14236			
C32	5.620	0.001	10840	5178	FUEL OIL(C10-C24)	745584	1
C34	5.843	-0.001	10949	6517			
Filter Peak	7.613	0.003	6768	4859	JP-4 (Tol-C14)	752130	66
C36	6.120	-0.004	8994	6247	CREOSOT (C8-C22)	945848	91
C38	6.482	0.004	8188	4875	HYDRAUL (C24-C38)	876933	99
C40	6.963	0.008	7460	2825	BUNKERC (C10-C38)	1622517	310

Range Times: NW Diesel(3.204 - 4.868) NW Gas(1.708 - 3.204) NW M.Oil(4.868 - 6.528)
AK102(2.623 - 4.874) AK103(4.874 - 6.174) Jet A(2.623 - 4.160)

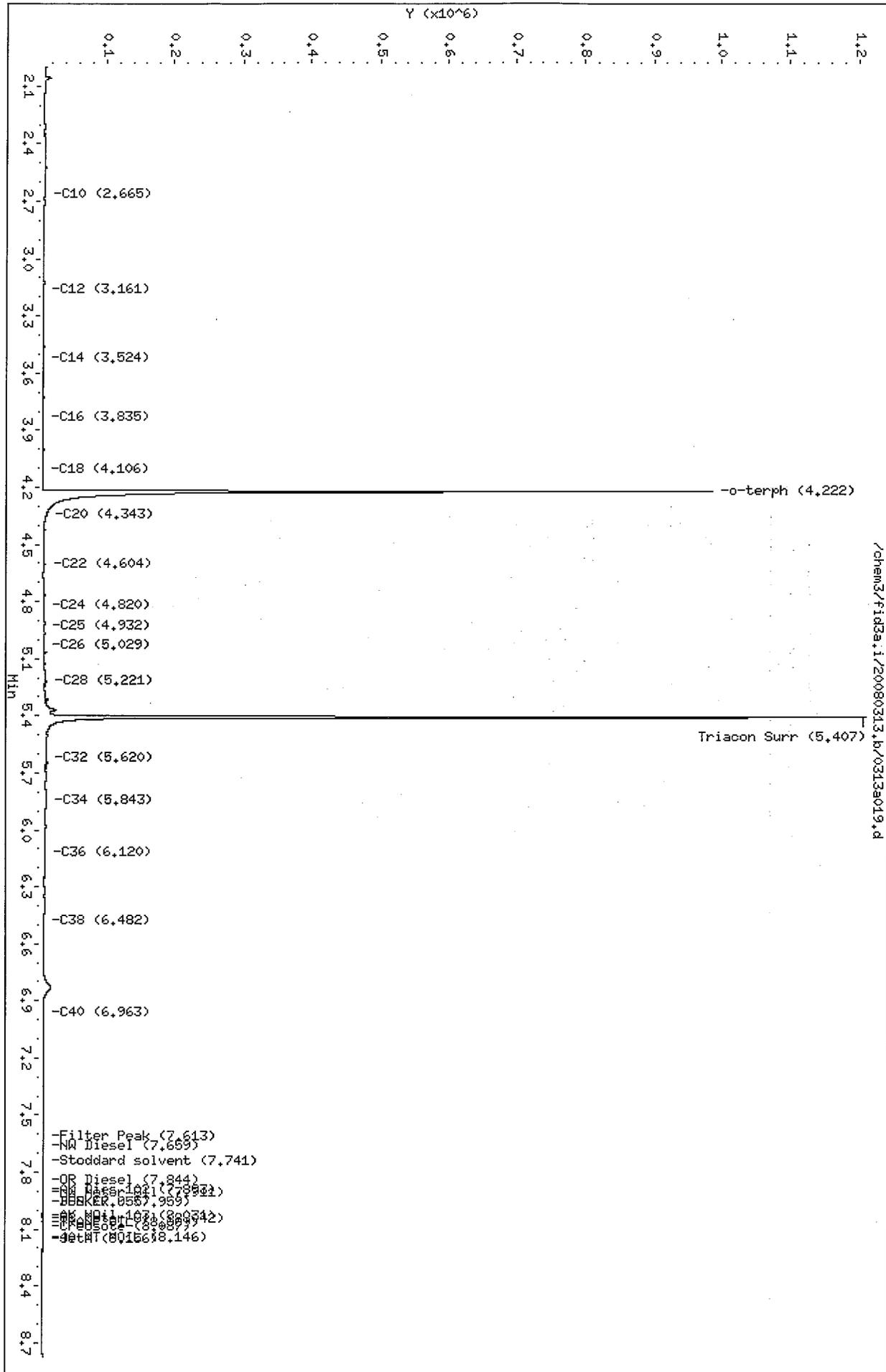
03/17/08

Surrogate	Area	Amount	%Rec
o-Terphenyl	762207	40.6	90.3
Triacontane	726902	47.7	106.1

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080313.b/0313a019.d
 Date: 13-MAR-2008 20:28
 Client ID:
 Sample Info: HL68E
 Column phase: RTX-1

Instrument: fid3a.i
 Operator: JR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080312b.b/0312a076.d
Method: /chem3/fid3a.i/20080312b.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/13/2008
Macro: FID:3A030808

ARI ID: ML68F
Client ID:
Injection: 13-MAR-2008 01:23
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.761	0.000	20980	23254	GAS (Tol-C12)	750477	18
C8	1.932	-0.016	10428	22411	DIESEL (C12-C24)	553150	30
C10	2.679	0.006	7309	4785	M.OIL (C24-C38)	899196	94
C12	3.153	0.001	6850	1503	AK-102 (C10-C25)	785499	35
C14	3.518	-0.005	6474	3992	AK-103 (C25-C36)	718547	121
C16	3.839	0.003	6132	5345			
C18	4.108	-0.004	5795	2076			
C20	4.390	0.024	6972	4134	JET-A (C10-C18)	551265	39
C22	4.599	-0.002	6872	4481	MIN.OIL (C24-C38)	899196	72
C24	4.824	0.004	7383	10878	MSPIRIT (Tol-C12)	750477	47
C25	4.924	-0.003	8431	17003	TRANOIL (C12-C28)	785539	52
C26	5.022	-0.009	8661	13136	KEROSEN (Tol-C18)	1072711	70
C28	5.238	0.006	13148	23992			
C32	5.632	0.009	11619	15430	FUEL OIL(C10-C24)	782181	1
C34	5.859	0.009	11230	10512			
Filter Peak	7.601	-0.002	8101	2585	JP-4 (Tol-C14)	880481	77
C36	6.133	0.004	9615	7475	CREOSOT (C8-C22)	1053180	101
C38	6.488	0.002	9039	13221	HYDRAUL (C24-C38)	899196	101
C40	6.958	-0.001	8272	2313	BUNKERC (C10-C38)	1681377	322

Range Times: NW Diesel(3.202 - 4.870) NW Gas(1.711 - 3.202) NW M.Oil(4.870 - 6.536)
AK102(2.624 - 4.877) AK103(4.877 - 6.179) Jet A(2.624 - 4.161)

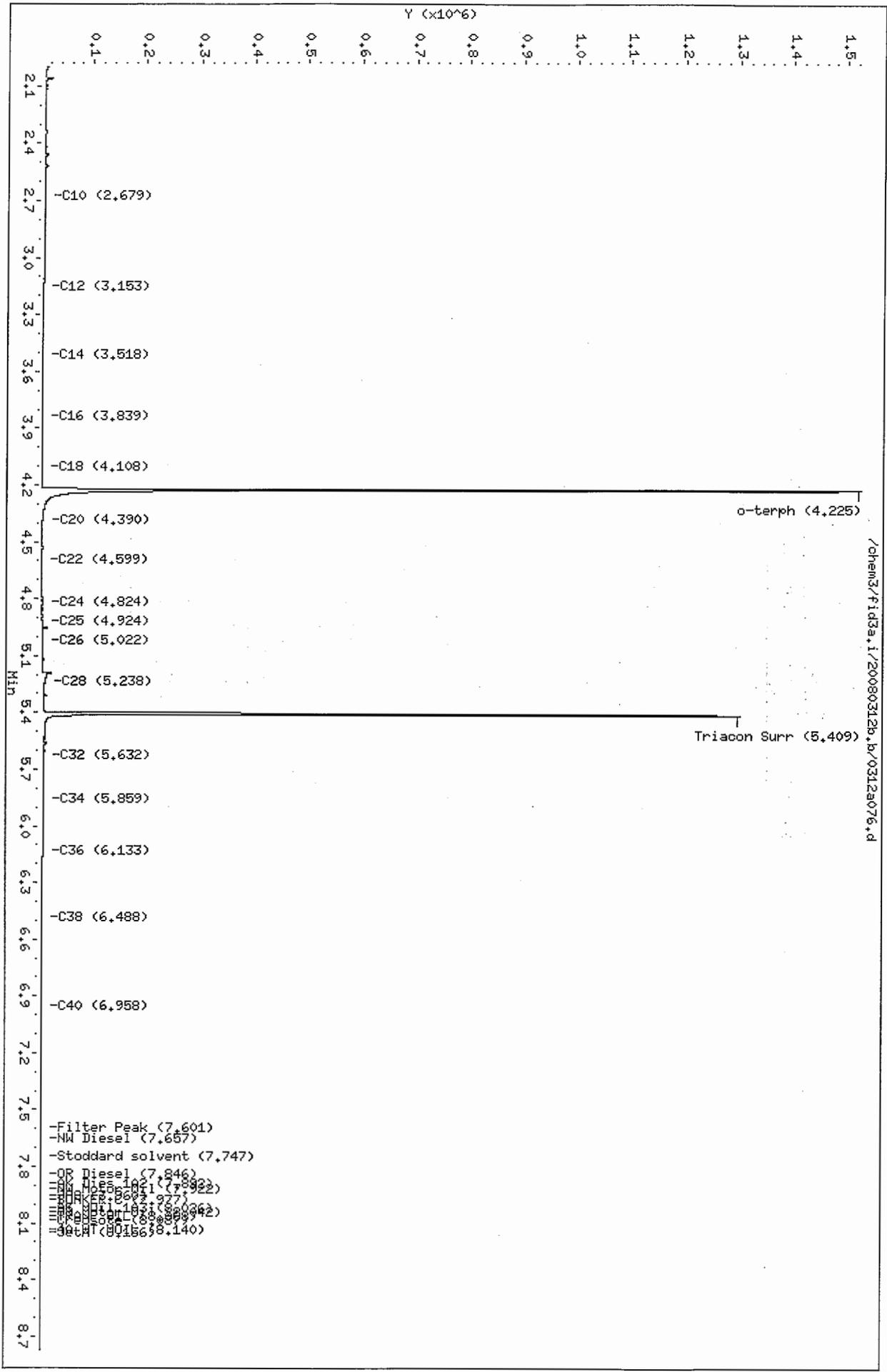
Surrogate	Area	Amount	%Rec
o-Terphenyl	834970	44.5	98.9
Triacontane	780131	51.2	113.9

mr 3/13/08

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
Jeta	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080312b.b/0312a076.d
 Date: 13-HAR-2008 01:23
 Client ID:
 Sample Info: HLE6F
 Column phase: RTX-1

Instrument: fid3a.i
 Operator: JR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080312b.b/0312a080.d
Method: /chem3/fid3a.i/20080312b.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/13/2008
Macro: FID:3A030808

ARI ID: ML68G
Client ID:
Injection: 13-MAR-2008 02:25
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.757	-0.004	22181	9270	GAS (Tol-C12)	1178749	29
C8	1.961	0.013	10965	9861	DIESEL (C12-C24)	6924650	378
C10	2.689	0.015	10468	5386	M.OIL (C24-C38)	15058018	1568
C12	3.153	0.002	15247	12729	AK-102 (C10-C25)	7376309	332
C14	3.518	-0.006	31628	23309	AK-103 (C25-C36)	14376822	2427
C16	3.836	0.001	18443	12997			
C18	4.112	0.001	34718	29618			
C20	4.349	-0.018	136555	197034	JET-A (C10-C18)	1507850	106
C22	4.600	-0.001	170835	231209	MIN.OIL (C24-C38)	15058018	1205
C24	4.818	-0.002	238336	282014	MSPIRIT (Tol-C12)	1178749	74
C25	4.937	0.010	252968	85683	TRANOIL (C12-C28)	13384372	878
C26	5.025	-0.006	246007	152240	KEROSEN (Tol-C18)	2234939	145
C28	5.232	0.001	259515	96985			
C32	5.627	0.004	182543	191987	FUEL OIL(C10-C24)	7376309	14
C34	5.853	0.004	107059	21179			
Filter Peak	7.604	0.000	11800	7692	JP-4 (Tol-C14)	1492933	131
C36	6.126	-0.003	46345	18325	CREOSOT (C8-C22)	5180461	497
C38	6.483	-0.003	26656	14677	HYDRAUL (C24-C38)	15058018	1692
C40	6.952	-0.007	17801	20076	BUNKERC (C10-C38)	22434327	4291

DR/M/D

Range Times: NW Diesel(3.202 - 4.870) NW Gas(1.711 - 3.202) NW M.Oil(4.870 - 6.536)
AK102(2.624 - 4.877) AK103(4.877 - 6.179) Jet A(2.624 - 4.161)

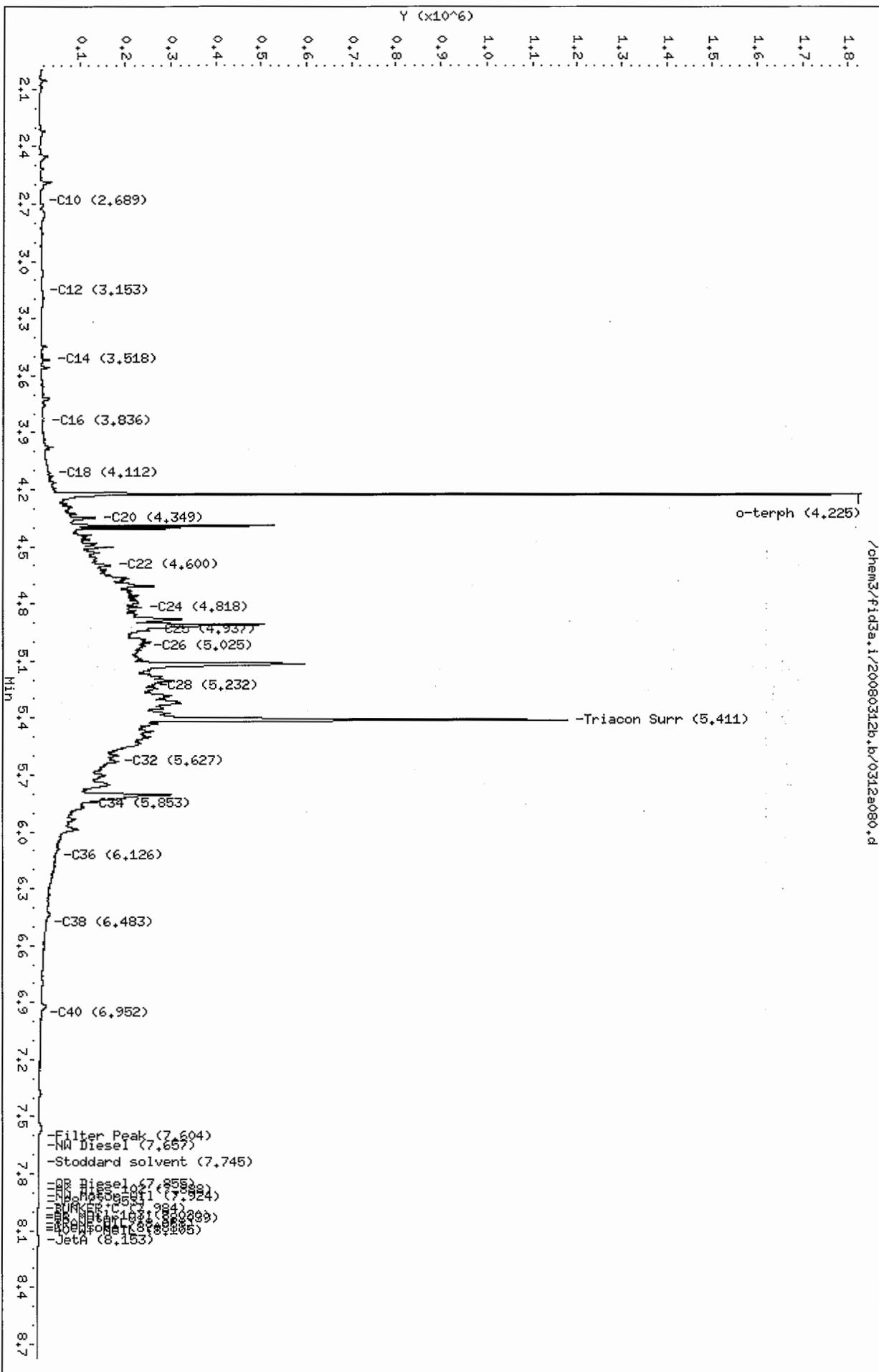
Surrogate	Area	Amount	%Rec
o-Terphenyl	765926	40.8	90.7
Triacontane	659522	43.3	96.3

ms 3/13/08

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080312b.b/0312a080.d
 Date: 13-MAR-2008 02:25
 Client ID:
 Sample Info: HL686
 Column phase: RTX-1

Instrument: fid3a.i
 Operator: JR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080312b.b/0312a081.d
Method: /chem3/fid3a.i/20080312b.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/13/2008
Macro: FID:3A030808

ARI ID: ML68H
Client ID:
Injection: 13-MAR-2008 02:41
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.756	-0.005	20674	12670	GAS (Tol-C12)	1562492	38
C8	1.948	0.001	9871	5494	DIESEL (C12-C24)	5549561	303
C10	2.678	0.004	9517	1708	M.OIL (C24-C38)	12344817	1285
C12	3.153	0.001	11482	3657	AK-102 (C10-C25)	6052429	273
C14	3.527	0.004	22095	24390	AK-103 (C25-C36)	11818879	1995
C16	3.846	0.011	15615	6146			
C18	4.113	0.001	25038	25718			
C20	4.356	-0.011	319680	231120	JET-A (C10-C18)	1585115	111
C22	4.602	0.001	124597	113272	MIN.OIL (C24-C38)	12344817	988
C24	4.813	-0.007	259049	308350	MSPIRIT (Tol-C12)	1562492	99
C25	4.925	-0.002	287517	271651	TRANOIL (C12-C28)	11752250	771
C26	5.028	-0.003	188884	37254	KEROSEN (Tol-C18)	2644739	171
C28	5.230	-0.002	131949	38820			
C32	5.623	0.000	95375	16980	FUEL OIL(C10-C24)	6052429	11
C34	5.873	0.023	118528	176566			
Filter Peak	7.614	0.011	11177	2671	JP-4 (Tol-C14)	1999025	176
C36	6.129	0.000	49463	31238	CREOSOT (C8-C22)	4530779	435
C38	6.486	0.000	21901	19823	HYDRAUL (C24-C38)	12344817	1387
C40	6.960	0.001	15353	4584	BUNKERC (C10-C38)	18397246	3519

PRO-1220
PRO

Range Times: NW Diesel(3.202 - 4.870) NW Gas(1.711 - 3.202) NW M.Oil(4.870 - 6.536)
AK102(2.624 - 4.877) AK103(4.877 - 6.179) Jet A(2.624 - 4.161)

Surrogate	Area	Amount	%Rec
o-Terphenyl	757604	40.4	89.7
Triacontane	661210	43.4	96.5

no. 3/13/08

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080312p.b/0312a081.d
Date: 13-MAR-2008 02:41

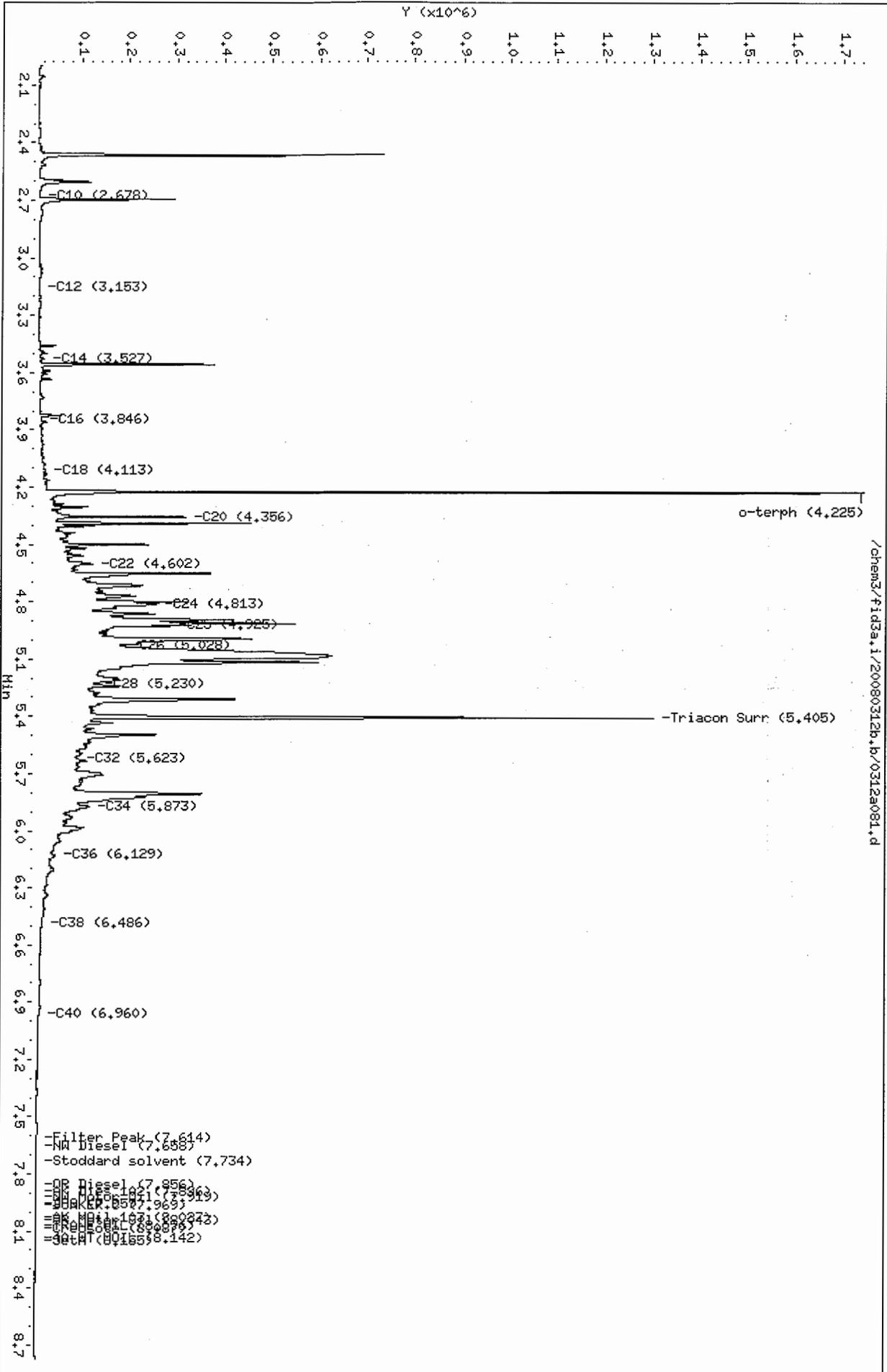
Client ID:
Sample Info: HL68H

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080313.b/0313a020.d
Method: /chem3/fid3a.i/20080313.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/17/2008
Macro: FID:3A030808

ARI ID: ML68I
Client ID:
Injection: 13-MAR-2008 20:43
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.752	-0.007	18844	22930	GAS (Tol-C12)	640071	16
C8	1.945	0.000	8263	4919	DIESEL (C12-C24)	531306	29
C10	2.668	-0.005	6987	11368	M.OIL (C24-C38)	709337	74
C12	3.156	0.002	6297	3144	AK-102 (C10-C25)	731604	33
C14	3.522	-0.006	5818	2205	AK-103 (C25-C36)	567031	96
C16	3.837	0.000	5600	3012			
C18	4.112	0.002	5411	3026			
C20	4.329	-0.037	12722	17261	JET-A (C10-C18)	519602	37
C22	4.598	-0.001	6699	1202	MIN.OIL (C24-C38)	709337	57
C24	4.815	-0.003	6994	1393	MSPRIT (Tol-C12)	640071	40
C25	4.919	-0.005	7548	7308	TRANOIL (C12-C28)	693870	46
C26	5.026	-0.001	7015	4136	KEROSEN (Tol-C18)	959375	62
C28	5.229	0.001	8875	10324			
C32	5.620	0.002	9407	2066	FUEL OIL (C10-C24)	731604	1
C34	5.848	0.004	9476	4349			
Filter Peak	7.613	0.003	6287	3765	JP-4 (Tol-C14)	766878	67
C36	6.123	-0.001	8229	4267	CREOSOT (C8-C22)	925615	89
C38	6.487	0.009	7342	879	HYDRAUL (C24-C38)	709337	80
C40	6.956	0.001	6793	3658	BUNKERC (C10-C38)	1440941	276

Range Times: NW Diesel(3.204 - 4.868) NW Gas(1.708 - 3.204) NW M.Oil(4.868 - 6.528)
AK102(2.623 - 4.874) AK103(4.874 - 6.174) Jet A(2.623 - 4.160)

pl 03/17/08

Surrogate	Area	Amount	%Rec
o-Terphenyl	712797	38.0	84.4
Triacontane	713885	46.9	104.2

Analyte	RF	Curve Date
o-Terph Surr	18761.2	08-MAR-2008
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	18329.7	08-MAR-2008
Motor Oil	9605.0	15-SEP-2007
AK102	22207.8	08-MAR-2008
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080313.b/0313a020.d

Date: 13-MAR-2008 20:43

Client ID:

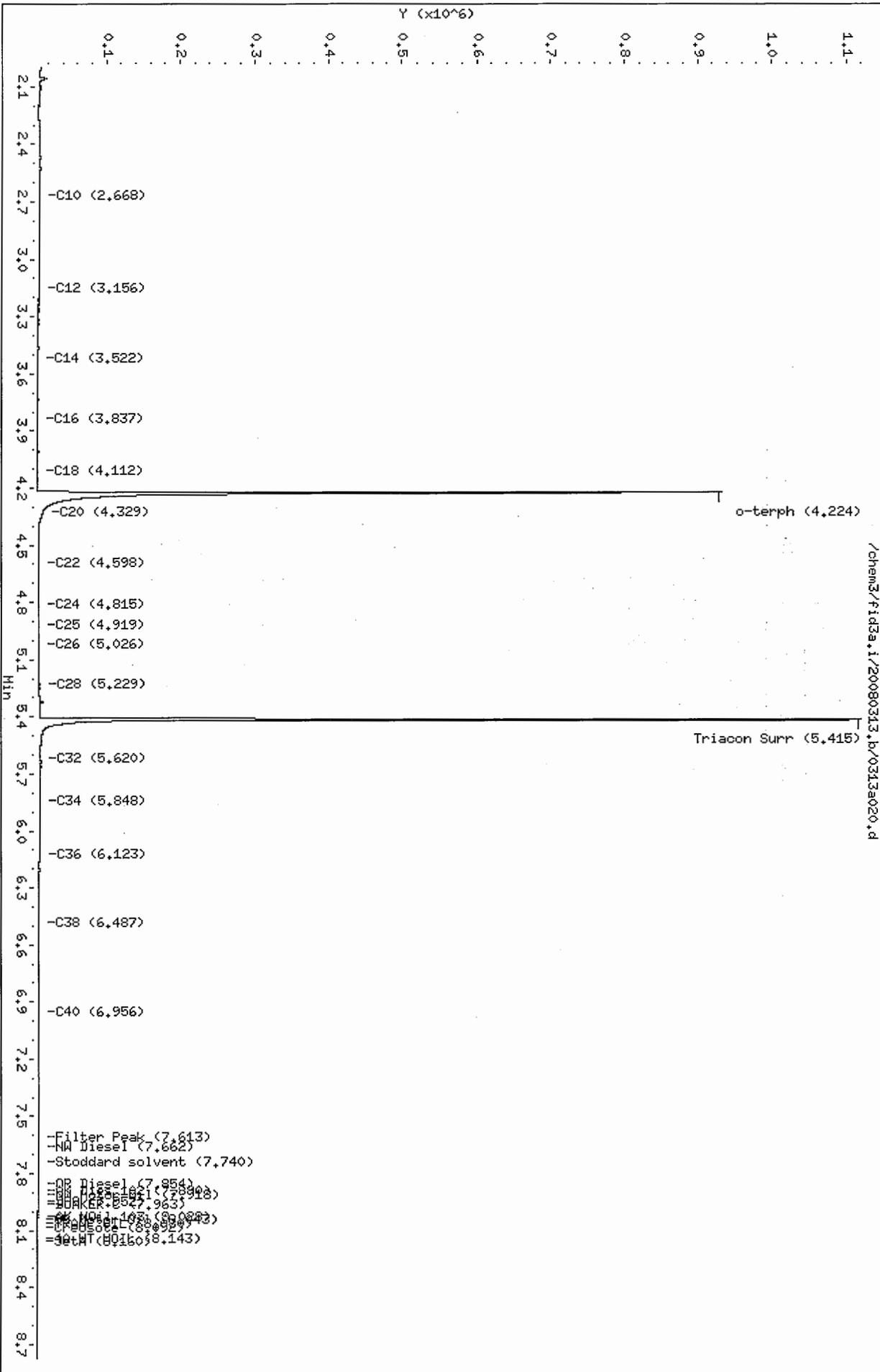
Sample Info: HL681

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



ORGANICS ANALYSIS DATA SHEET

PCB by GC/ECD Method SW8082

Page 1 of 1

Sample ID: MB-031208

METHOD BLANK

Lab Sample ID: MB-031208

LIMS ID: 08-4498

Matrix: Soil

Data Release Authorized: 

Reported: 03/19/08

QC Report No: ML68-Parametrix, Inc.

Project: Yakima

555-5753-001-02-022

Date Sampled: NA

Date Received: NA

Date Extracted: 03/12/08

Date Analyzed: 03/14/08 12:05

Instrument/Analyst: ECD5/PK

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 12.0 g

Final Extract Volume: 4.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	81.0%
Tetrachlorometaxylene	78.2%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: B-4-13
SAMPLE

Lab Sample ID: ML68G
LIMS ID: 08-4498
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 03/19/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/04/08
Date Received: 03/06/08

Date Extracted: 03/12/08
Date Analyzed: 03/14/08 13:14
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: 60.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	70.5%
Tetrachlorometaxylene	64.2%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: B-4D-13
SAMPLE

Lab Sample ID: ML68H
LIMS ID: 08-4499
Matrix: Soil
Data Release Authorized:
Reported: 03/19/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/04/08
Date Received: 03/06/08

Date Extracted: 03/12/08
Date Analyzed: 03/14/08 13:31
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.3 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: 33.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	63.5%
Tetrachlorometaxylene	62.8%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LCS-031208
LAB CONTROL

Lab Sample ID: LCS-031208
LIMS ID: 08-4498
Matrix: Soil
Data Release Authorized: 
Reported: 03/19/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: NA
Date Received: NA

Date Extracted: 03/12/08
Date Analyzed: 03/14/08 12:23
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.0 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	125	167	74.9%
Aroclor 1260	129	167	77.2%

PCB Surrogate Recovery

Decachlorobiphenyl	76.0%
Tetrachlorometaxylene	79.2%

Results reported in $\mu\text{g}/\text{kg}$ (ppb)

SAMPLE RESULTS-CONVENTIONALS
ML68-Parametrix, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 03/13/08

Project: Yakima
Event: 555-5753-001-02-022
Date Sampled: 03/04/08
Date Received: 03/06/08

Client ID: BOILER DRAIN
ARI ID: 08-4495 ML68D

Analyte	Date	Method	Units	RL	Sample
pH	03/12/08 031208#1	SW9045	std units	0.01	7.98

RL Analytical reporting limit
U Undetected at reported detection limit

Results reported on a fresh weight basis
pH determined on 1:1 soil:D.I. water extracts.

SAMPLE RESULTS-CONVENTIONALS
ML68-Parametrix, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 03/13/08

Project: Yakima
Event: 555-5753-001-02-022
Date Sampled: 03/04/08
Date Received: 03/06/08

Client ID: B-4-13
ARI ID: 08-4498 ML68G

Analyte	Date	Method	Units	RL	Sample
pH	03/12/08 031208#1	SW9045	std units	0.01	7.82

RL Analytical reporting limit
U Undetected at reported detection limit

Results reported on a fresh weight basis
pH determined on 1:1 soil:D.I. water extracts.

SAMPLE RESULTS-CONVENTIONALS
ML68-Parametrix, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 03/13/08

Project: Yakima
Event: 555-5753-001-02-022
Date Sampled: 03/04/08
Date Received: 03/06/08

Client ID: B-4D-13
ARI ID: 08-4499 ML68H

Analyte	Date	Method	Units	RL	Sample
pH	03/12/08 031208#1	SW9045	std units	0.01	7.44

RL Analytical reporting limit
U Undetected at reported detection limit

Results reported on a fresh weight basis
pH determined on 1:1 soil:D.I. water extracts.

LAB CONTROL RESULTS-CONVENTIONALS
ML68-Parametrix, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 03/13/08

Project: Yakima
Event: 555-5753-001-02-022
Date Sampled: NA
Date Received: NA

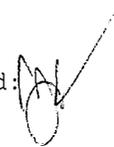
Analyte	Date	Units	LCS	Spike Added	Recovery
pH	03/12/08	std units	7.03	7.00	0.03

pH is evaluated as the Absolute Difference between the values rather than Percent Recovery.

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: ML68MB
LIMS ID: 08-4492
Matrix: Soil
Data Release Authorized: 
Reported: 03/19/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/10/08	6010B	03/17/08	7440-38-2	Arsenic	5	5	U
3050B	03/10/08	6010B	03/17/08	7440-39-3	Barium	0.3	0.3	U
3050B	03/10/08	6010B	03/17/08	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/10/08	6010B	03/17/08	7440-47-3	Chromium	0.5	0.5	U
3050B	03/10/08	6010B	03/17/08	7439-92-1	Lead	2	2	U
CLP	03/10/08	7471A	03/12/08	7439-97-6	Mercury	0.05	0.05	U
3050B	03/10/08	6010B	03/17/08	7782-49-2	Selenium	5	5	U
3050B	03/10/08	6010B	03/17/08	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: B-5-10.5

SAMPLE

Lab Sample ID: ML68A

LIMS ID: 08-4492

Matrix: Soil

Data Release Authorized: 

Reported: 03/19/08

QC Report No: ML68-Parametrix, Inc.

Project: Yakima

555-5753-001-02-022

Date Sampled: 03/04/08

Date Received: 03/06/08

Percent Total Solids: 88.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/10/08	6010B	03/17/08	7440-38-2	Arsenic	6	6	U
3050B	03/10/08	6010B	03/17/08	7440-39-3	Barium	0.3	103	
3050B	03/10/08	6010B	03/17/08	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/10/08	6010B	03/17/08	7440-47-3	Chromium	0.6	16.6	
3050B	03/10/08	6010B	03/17/08	7439-92-1	Lead	2	7	
CLP	03/10/08	7471A	03/12/08	7439-97-6	Mercury	0.05	0.05	U
3050B	03/10/08	6010B	03/17/08	7782-49-2	Selenium	6	6	U
3050B	03/10/08	6010B	03/17/08	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

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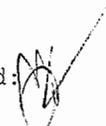
Sample ID: B-9-12

SAMPLE

Lab Sample ID: ML68B

LIMS ID: 08-4493

Matrix: Soil

Data Release Authorized: 

Reported: 03/19/08

QC Report No: ML68-Parametrix, Inc.

Project: Yakima

555-5753-001-02-022

Date Sampled: 03/04/08

Date Received: 03/06/08

Percent Total Solids: 75.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/10/08	6010B	03/17/08	7440-38-2	Arsenic	6	6	U
3050B	03/10/08	6010B	03/17/08	7440-39-3	Barium	0.4	79.2	
3050B	03/10/08	6010B	03/17/08	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/10/08	6010B	03/17/08	7440-47-3	Chromium	0.6	25.3	
3050B	03/10/08	6010B	03/17/08	7439-92-1	Lead	2	18	
CLP	03/10/08	7471A	03/12/08	7439-97-6	Mercury	0.05	0.05	U
3050B	03/10/08	6010B	03/17/08	7782-49-2	Selenium	6	6	U
3050B	03/10/08	6010B	03/17/08	7440-22-4	Silver	0.4	0.4	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: B-9-7

SAMPLE

Lab Sample ID: ML68C

LIMS ID: 08-4494

Matrix: Soil

Data Release Authorized: 

Reported: 03/19/08

QC Report No: ML68-Parametrix, Inc.

Project: Yakima

555-5753-001-02-022

Date Sampled: 03/04/08

Date Received: 03/06/08

Percent Total Solids: 75.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/10/08	6010B	03/17/08	7440-38-2	Arsenic	6	6	U
3050B	03/10/08	6010B	03/17/08	7440-39-3	Barium	0.4	99.1	
3050B	03/10/08	6010B	03/17/08	7440-43-9	Cadmium	0.3	0.3	U
3050B	03/10/08	6010B	03/17/08	7440-47-3	Chromium	0.6	15.2	
3050B	03/10/08	6010B	03/17/08	7439-92-1	Lead	3	12	
CLP	03/10/08	7471A	03/12/08	7439-97-6	Mercury	0.05	0.06	
3050B	03/10/08	6010B	03/17/08	7782-49-2	Selenium	6	6	U
3050B	03/10/08	6010B	03/17/08	7440-22-4	Silver	0.4	0.4	U

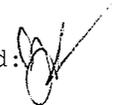
U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: BOILER DRAIN
SAMPLE

Lab Sample ID: ML68D
LIMS ID: 08-4495
Matrix: Soil
Data Release Authorized: 
Reported: 03/19/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/04/08
Date Received: 03/06/08

Percent Total Solids: 41.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/10/08	6010B	03/17/08	7440-38-2	Arsenic	10	10	U
3050B	03/10/08	6010B	03/17/08	7440-39-3	Barium	0.7	811	
3050B	03/10/08	6010B	03/17/08	7440-43-9	Cadmium	0.5	1.7	
3050B	03/10/08	6010B	03/17/08	7440-47-3	Chromium	1	28	
3050B	03/10/08	6010B	03/17/08	7439-92-1	Lead	5	17	
CLP	03/10/08	7471A	03/12/08	7439-97-6	Mercury	0.1	0.1	U
3050B	03/10/08	6010B	03/17/08	7782-49-2	Selenium	10	10	U
3050B	03/10/08	6010B	03/17/08	7440-22-4	Silver	0.7	0.7	U

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: B-8-14

SAMPLE

Lab Sample ID: ML68E

LIMS ID: 08-4496

Matrix: Soil

Data Release Authorized: 

Reported: 03/19/08

QC Report No: ML68-Parametrix, Inc.

Project: Yakima

555-5753-001-02-022

Date Sampled: 03/04/08

Date Received: 03/06/08

Percent Total Solids: 91.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/10/08	6010B	03/17/08	7439-92-1	Lead	2	2	

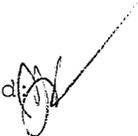
U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: B-7-14
SAMPLE

Lab Sample ID: ML68F
LIMS ID: 08-4497
Matrix: Soil
Data Release Authorized: 
Reported: 03/19/08

QC Report No: ML68-Parametrix, Inc.
Project: Yakima
555-5753-001-02-022
Date Sampled: 03/04/08
Date Received: 03/06/08

Percent Total Solids: 94.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/10/08	6010B	03/17/08	7440-38-2	Arsenic	5	5	U
3050B	03/10/08	6010B	03/17/08	7440-39-3	Barium	0.3	73.2	
3050B	03/10/08	6010B	03/17/08	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/10/08	6010B	03/17/08	7440-47-3	Chromium	0.5	16.0	
3050B	03/10/08	6010B	03/17/08	7439-92-1	Lead	2	3	
CLP	03/10/08	7471A	03/12/08	7439-97-6	Mercury	0.05	0.05	U
3050B	03/10/08	6010B	03/17/08	7782-49-2	Selenium	5	5	U
3050B	03/10/08	6010B	03/17/08	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: B-4-13

SAMPLE

Lab Sample ID: ML68G

LIMS ID: 08-4498

Matrix: Soil

Data Release Authorized: 

Reported: 03/19/08

QC Report No: ML68-Parametrix, Inc.

Project: Yakima

555-5753-001-02-022

Date Sampled: 03/04/08

Date Received: 03/06/08

Percent Total Solids: 42.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/10/08	6010B	03/17/08	7440-38-2	Arsenic	10	10	U
3050B	03/10/08	6010B	03/17/08	7440-39-3	Barium	0.7	111	
3050B	03/10/08	6010B	03/17/08	7440-43-9	Cadmium	0.5	0.5	U
3050B	03/10/08	6010B	03/17/08	7440-47-3	Chromium	1	17	
3050B	03/10/08	6010B	03/17/08	7439-92-1	Lead	5	16	
CLP	03/10/08	7471A	03/12/08	7439-97-6	Mercury	0.1	0.1	
3050B	03/10/08	6010B	03/17/08	7782-49-2	Selenium	10	10	U
3050B	03/10/08	6010B	03/17/08	7440-22-4	Silver	0.7	0.7	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: B-4D-13

SAMPLE

Lab Sample ID: ML68H

LIMS ID: 08-4499

Matrix: Soil

Data Release Authorized: 

Reported: 03/19/08

QC Report No: ML68-Parametrix, Inc.

Project: Yakima

555-5753-001-02-022

Date Sampled: 03/04/08

Date Received: 03/06/08

Percent Total Solids: 64.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/10/08	6010B	03/17/08	7440-38-2	Arsenic	8	8	U
3050B	03/10/08	6010B	03/17/08	7440-39-3	Barium	0.5	107	
3050B	03/10/08	6010B	03/17/08	7440-43-9	Cadmium	0.3	0.3	U
3050B	03/10/08	6010B	03/17/08	7440-47-3	Chromium	0.8	15.6	
3050B	03/10/08	6010B	03/17/08	7439-92-1	Lead	3	6	
CLP	03/10/08	7471A	03/12/08	7439-97-6	Mercury	0.06	0.07	
3050B	03/10/08	6010B	03/17/08	7782-49-2	Selenium	8	8	U
3050B	03/10/08	6010B	03/17/08	7440-22-4	Silver	0.5	0.5	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: B-6-14

SAMPLE

Lab Sample ID: ML68I

LIMS ID: 08-4500

Matrix: Soil

Data Release Authorized: 

Reported: 03/19/08

QC Report No: ML68-Parametrix, Inc.

Project: Yakima

555-5753-001-02-022

Date Sampled: 03/04/08

Date Received: 03/06/08

Percent Total Solids: 91.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/10/08	6010B	03/18/08	7439-92-1	Lead	5	5	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

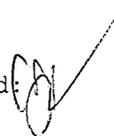
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: ML68LCS

LIMS ID: 08-4492

Matrix: Soil

Data Release Authorized: 

Reported: 03/19/08

QC Report No: ML68-Parametrix, Inc.

Project: Yakima

555-5753-001-02-022

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	197	200	98.5%	
Barium	6010B	189	200	94.5%	
Cadmium	6010B	48.9	50.0	97.8%	
Chromium	6010B	47.8	50.0	95.6%	
Lead	6010B	188	200	94.0%	
Mercury	7471A	1.06	1.00	106%	
Selenium	6010B	193	200	96.5%	
Silver	6010B	46.5	50.0	93.0%	

Reported in mg/kg-dry

N-Control limit not met

Control Limits: 80-120%



Analytical Resources, Incorporated
Analytical Chemists and Consultants

24 March 2008

Annika Deutsch
Parametrix, Inc.
411 108th Avenue NE
Suite 1800
Bellevue, WA 98004-5571

RE: Project: Yakima
ARI Job No. MM10

Dear Annika:

Please find enclosed the original Chain of Custody (COC) record and the final results for the samples from the project referenced above. Analytical Resources, Inc. received five soil samples and one trip blank on March 7, 2008. The samples were received intact and there were no discrepancies in the paperwork. The samples were analyzed for VOAs, BETX/NWTPH-G, SVOAs, PCBs, NWTPH-Dx, total metals and pH as requested.

There were no analytical complications noted.

As always, a copy of these reports and all raw data will remain on file at ARI. If you have questions, or require further information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
206-695-6210
<markh@arilabs.com>

Enclosures

cc: File MM10

MDH/mdh

ARI Data Reporting Qualifiers

Effective 11/22/04

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- NR Spiked compound recovery is not reported due to chromatographic interference
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the limit
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B

Sample ID: MB-031008

Page 1 of 2

METHOD BLANK

Lab Sample ID: MB-031008

QC Report No: MM10-Parametrix, Inc.

LIMS ID: 08-4730

Project: Yakima

Matrix: Soil

555-5753-001-02

Data Release Authorized: 

Date Sampled: NA

Reported: 03/11/08

Date Received: NA

Instrument/Analyst: FINN1/JZ

Sample Amount: 5.00 g-dry-wt

Date Analyzed: 03/10/08 14:01

Purge Volume: 5.0 mL

Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B

Sample ID: MB-031008

Page 2 of 2

METHOD BLANK

Lab Sample ID: MB-031008

QC Report No: MM10-Parametrix, Inc.

LIMS ID: 08-4730

Project: Yakima

Matrix: Soil

555-5753-001-02

Date Analyzed: 03/10/08 14:01

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	97.5%
Bromofluorobenzene	91.5%
d4-1,2-Dichlorobenzene	97.2%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2

Sample ID: SS-5-2
SAMPLE

Lab Sample ID: MM10C

QC Report No: MM10-Parametrix, Inc.

LIMS ID: 08-4730

Project: Yakima

Matrix: Soil

555-5753-001-02

Data Release Authorized:

Date Sampled: 03/06/08

Reported: 03/11/08

Date Received: 03/07/08

Instrument/Analyst: FINN1/JZ

Sample Amount: 5.33 g-dry-wt

Date Analyzed: 03/10/08 19:01

Purge Volume: 5.0 mL

Moisture: 11.9%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.9	< 0.9	U
74-83-9	Bromomethane	0.9	< 0.9	U
75-01-4	Vinyl Chloride	0.9	< 0.9	U
75-00-3	Chloroethane	0.9	< 0.9	U
75-09-2	Methylene Chloride	1.9	5.2	
67-64-1	Acetone	4.7	130	
75-15-0	Carbon Disulfide	0.9	< 0.9	U
75-35-4	1,1-Dichloroethene	0.9	< 0.9	U
75-34-3	1,1-Dichloroethane	0.9	< 0.9	U
156-60-5	trans-1,2-Dichloroethene	0.9	< 0.9	U
156-59-2	cis-1,2-Dichloroethene	0.9	< 0.9	U
67-66-3	Chloroform	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
78-93-3	2-Butanone	4.7	< 4.7	U
71-55-6	1,1,1-Trichloroethane	0.9	< 0.9	U
56-23-5	Carbon Tetrachloride	0.9	< 0.9	U
108-05-4	Vinyl Acetate	4.7	< 4.7	U
75-27-4	Bromodichloromethane	0.9	< 0.9	U
78-87-5	1,2-Dichloropropane	0.9	< 0.9	U
10061-01-5	cis-1,3-Dichloropropene	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	< 0.9	U
124-48-1	Dibromochloromethane	0.9	< 0.9	U
79-00-5	1,1,2-Trichloroethane	0.9	< 0.9	U
71-43-2	Benzene	0.9	< 0.9	U
10061-02-6	trans-1,3-Dichloropropene	0.9	< 0.9	U
75-25-2	Bromoform	0.9	< 0.9	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.7	< 4.7	U
591-78-6	2-Hexanone	4.7	< 4.7	U
127-18-4	Tetrachloroethene	0.9	9.6	
79-34-5	1,1,2,2-Tetrachloroethane	0.9	< 0.9	U
108-88-3	Toluene	0.9	11	
108-90-7	Chlorobenzene	0.9	< 0.9	U
100-41-4	Ethylbenzene	0.9	< 0.9	U
100-42-5	Styrene	0.9	< 0.9	U
75-69-4	Trichlorofluoromethane	0.9	< 0.9	U
108-38-3	m,p-Xylene	0.9	< 0.9	U
95-47-6	o-Xylene	0.9	< 0.9	U
95-50-1	1,2-Dichlorobenzene	0.9	< 0.9	U
106-46-7	1,4-Dichlorobenzene	0.9	< 0.9	U
74-88-4	Methyl Iodide	0.9	< 0.9	U
107-13-1	Acrylonitrile	4.7	< 4.7	U
74-95-3	Dibromomethane	0.9	< 0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	< 0.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.7	< 4.7	U
96-18-4	1,2,3-Trichloropropane	1.9	< 1.9	U
110-57-6	trans-1,4-Dichloro-2-butene	4.7	< 4.7	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: SS-5-2
SAMPLE

Lab Sample ID: MM10C
LIMS ID: 08-4730
Matrix: Soil
Date Analyzed: 03/10/08 19:01

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	0.9	< 0.9	U
74-97-5	Bromochloromethane	0.9	< 0.9	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	131%
d8-Toluene	103%
Bromofluorobenzene	95.9%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2

Sample ID: TRIP BLANK
SAMPLE

Lab Sample ID: MM10F

QC Report No: MM10-Parametrix, Inc.

LIMS ID: 08-4733

Project: Yakima

Matrix: Water

555-5753-001-02

Data Release Authorized: 

Date Sampled: 03/05/08

Reported: 03/24/08

Date Received: 03/07/08

Instrument/Analyst: FINNI/JZ

Sample Amount: 5.00 mL

Date Analyzed: 03/10/08 14:41

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: TRIP BLANK
SAMPLE

Lab Sample ID: MM10F
LIMS ID: 08-4733
Matrix: Water
Date Analyzed: 03/10/08 14:41

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02

CAS Number	Analyte	RL	Result	Q
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	108%
d8-Toluene	100%
Bromofluorobenzene	92.5%
d4-1,2-Dichlorobenzene	97.3%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2

Sample ID: LCS-031008
LAB CONTROL SAMPLE

Lab Sample ID: LCS-031008
LIMS ID: 08-4730
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 03/11/08

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN1/JZ
LCSD: FINN1/JZ
Date Analyzed LCS: 03/10/08 12:30
LCSD: 03/10/08 13:29

Sample Amount LCS: 5.00 g-dry-wt
LCSD: 5.00 g-dry-wt
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL
Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	46.6	50.0	93.2%	44.7	50.0	89.4%	4.2%
Bromomethane	52.3	50.0	105%	48.9	50.0	97.8%	6.7%
Vinyl Chloride	55.6	50.0	111%	51.3	50.0	103%	8.0%
Chloroethane	57.2	50.0	114%	54.4	50.0	109%	5.0%
Methylene Chloride	54.9	50.0	110%	52.5	50.0	105%	4.5%
Acetone	280	250	112%	266	250	106%	5.1%
Carbon Disulfide	56.1	50.0	112%	53.3	50.0	107%	5.1%
1,1-Dichloroethene	57.0	50.0	114%	53.0	50.0	106%	7.3%
1,1-Dichloroethane	55.6	50.0	111%	53.6	50.0	107%	3.7%
trans-1,2-Dichloroethene	54.3	50.0	109%	51.8	50.0	104%	4.7%
cis-1,2-Dichloroethene	52.6	50.0	105%	50.5	50.0	101%	4.1%
Chloroform	53.5	50.0	107%	51.7	50.0	103%	3.4%
1,2-Dichloroethane	52.1	50.0	104%	51.0	50.0	102%	2.1%
2-Butanone	253	250	101%	252	250	101%	0.4%
1,1,1-Trichloroethane	54.2	50.0	108%	52.4	50.0	105%	3.4%
Carbon Tetrachloride	55.6	50.0	111%	53.4	50.0	107%	4.0%
Vinyl Acetate	54.9	50.0	110%	53.8	50.0	108%	2.0%
Bromodichloromethane	58.1	50.0	116%	55.5	50.0	111%	4.6%
1,2-Dichloropropane	52.3	50.0	105%	51.9	50.0	104%	0.8%
cis-1,3-Dichloropropene	47.2	50.0	94.4%	46.4	50.0	92.8%	1.7%
Trichloroethene	53.6	50.0	107%	52.0	50.0	104%	3.0%
Dibromochloromethane	44.9	50.0	89.8%	43.8	50.0	87.6%	2.5%
1,1,2-Trichloroethane	54.1	50.0	108%	51.7	50.0	103%	4.5%
Benzene	56.5	50.0	113%	54.8	50.0	110%	3.1%
trans-1,3-Dichloropropene	47.1	50.0	94.2%	45.7	50.0	91.4%	3.0%
Bromoform	44.8	50.0	89.6%	43.7	50.0	87.4%	2.5%
4-Methyl-2-Pentanone (MIBK)	233	250	93.2%	232	250	92.8%	0.4%
2-Hexanone	286	250	114%	280	250	112%	2.1%
Tetrachloroethene	54.3	50.0	109%	51.7	50.0	103%	4.9%
1,1,2,2-Tetrachloroethane	52.1	50.0	104%	52.0	50.0	104%	0.2%
Toluene	55.2	50.0	110%	51.6	50.0	103%	6.7%
Chlorobenzene	54.9	50.0	110%	51.3	50.0	103%	6.8%
Ethylbenzene	59.8	50.0	120%	56.9	50.0	114%	5.0%
Styrene	52.6	50.0	105%	50.6	50.0	101%	3.9%
Trichlorofluoromethane	52.5	50.0	105%	50.0	50.0	100%	4.9%
m,p-Xylene	119	100	119%	113	100	113%	5.2%
o-Xylene	46.8	50.0	93.6%	44.0	50.0	88.0%	6.2%
1,2-Dichlorobenzene	50.4	50.0	101%	49.9	50.0	99.8%	1.0%
1,4-Dichlorobenzene	53.2	50.0	106%	54.3	50.0	109%	2.0%
Methyl Iodide	59.8	50.0	120%	57.0	50.0	114%	4.8%
Acrylonitrile	56.1	50.0	112%	53.2	50.0	106%	5.3%
Dibromomethane	51.6	50.0	103%	51.3	50.0	103%	0.6%
1,1,1,2-Tetrachloroethane	44.8	50.0	89.6%	42.3	50.0	84.6%	5.7%
1,2-Dibromo-3-chloropropane	50.1	50.0	100%	50.1	50.0	100%	0.0%
1,2,3-Trichloropropane	49.8	50.0	99.6%	48.6	50.0	97.2%	2.4%
trans-1,4-Dichloro-2-butene	53.4	50.0	107%	53.3	50.0	107%	0.2%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: LCS-031008
LAB CONTROL SAMPLE

Lab Sample ID: LCS-031008
LIMS ID: 08-4730
Matrix: Soil

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Ethylene Dibromide	47.0	50.0	94.0%	45.8	50.0	91.6%	2.6%
Bromochloromethane	53.1	50.0	106%	50.5	50.0	101%	5.0%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	99.9%	102%
d8-Toluene	101%	100%
Bromofluorobenzene	100%	99.4%
d4-1,2-Dichlorobenzene	95.1%	97.5%

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MB-031208
 METHOD BLANK

Lab Sample ID: MB-031208
 LIMS ID: 08-4728
 Matrix: Soil
 Data Release Authorized:
 Reported: 03/13/08

QC Report No: MM10-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001-02
 Date Sampled: NA
 Date Received: NA

Date Analyzed: 03/12/08 09:30
 Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
 Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	12	< 12 U	
108-88-3	Toluene	12	< 12 U	
100-41-4	Ethylbenzene	12	< 12 U	
	m,p-Xylene	25	< 25 U	
95-47-6	o-Xylene	12	< 12 U	
	Gasoline Range Hydrocarbons	5.0	< 5.0 U	---

BETX Surrogate Recovery

Trifluorotoluene	98.4%
Bromobenzene	102%

Gasoline Surrogate Recovery

Trifluorotoluene	99.3%
Bromobenzene	104%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: SS-3-2
 SAMPLE

Lab Sample ID: MM10A
 LIMS ID: 08-4728
 Matrix: Soil
 Data Release Authorized:
 Reported: 03/13/08

QC Report No: MM10-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001-02
 Date Sampled: 03/05/08
 Date Received: 03/07/08

Date Analyzed: 03/12/08 11:10
 Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
 Sample Amount: 75 mg-dry-wt
 Percent Moisture: 18.4%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	17	< 17 U	
108-88-3	Toluene	17	< 17 U	
100-41-4	Ethylbenzene	17	< 17 U	
	m,p-Xylene	33	< 33 U	
95-47-6	o-Xylene	17	< 17 U	
	Gasoline Range Hydrocarbons	6.6	< 6.6 U	---

BETX Surrogate Recovery

Trifluorotoluene	90.7%
Bromobenzene	94.9%

Gasoline Surrogate Recovery

Trifluorotoluene	92.0%
Bromobenzene	97.0%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: SS-4-1.5

SAMPLE

Lab Sample ID: MM10B

LIMS ID: 08-4729

Matrix: Soil

Data Release Authorized:

Reported: 03/13/08

QC Report No: MM10-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001-02

Date Sampled: 03/05/08

Date Received: 03/07/08

Date Analyzed: 03/12/08 11:35

Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL

Sample Amount: 100 mg-dry-wt

Percent Moisture: 13.0%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	12	< 12 U
108-88-3	Toluene	12	< 12 U
100-41-4	Ethylbenzene	12	< 12 U
	m,p-Xylene	24	< 24 U
95-47-6	o-Xylene	12	< 12 U

Gasoline Range Hydrocarbons 4.8 < 4.8 U GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	88.7%
Bromobenzene	91.6%

Gasoline Surrogate Recovery

Trifluorotoluene	89.0%
Bromobenzene	92.5%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: SS-5-2
 SAMPLE

Lab Sample ID: MM10C
 LIMS ID: 08-4730
 Matrix: Soil
 Data Release Authorized: 
 Reported: 03/13/08

QC Report No: MM10-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001-02
 Date Sampled: 03/06/08
 Date Received: 03/07/08

Date Analyzed: 03/12/08 12:00
 Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
 Sample Amount: 97 mg-dry-wt
 Percent Moisture: 11.9%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	13	< 13 U	
108-88-3	Toluene	13	190	
100-41-4	Ethylbenzene	13	< 13 U	
	m,p-Xylene	26	< 26 U	
95-47-6	o-Xylene	13	< 13 U	
	Gasoline Range Hydrocarbons	5.2	< 5.2 U	---

BETX Surrogate Recovery

Trifluorotoluene	94.3%
Bromobenzene	97.9%

Gasoline Surrogate Recovery

Trifluorotoluene	94.2%
Bromobenzene	100%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.
 Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: SS-6-1.5
 SAMPLE

Lab Sample ID: MM10D
 LIMS ID: 08-4731
 Matrix: Soil
 Data Release Authorized: 
 Reported: 03/13/08

QC Report No: MM10-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001-02
 Date Sampled: 03/06/08
 Date Received: 03/07/08

Date Analyzed: 03/12/08 12:24
 Instrument/Analyst: PID3/PKC

Purge Volume: 5.0 mL
 Sample Amount: 100 mg-dry-wt
 Percent Moisture: 8.6%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	12	< 12 U
108-88-3	Toluene	12	< 12 U
100-41-4	Ethylbenzene	12	< 12 U
	m,p-Xylene	25	< 25 U
95-47-6	o-Xylene	12	< 12 U

Gasoline Range Hydrocarbons	5.0	6.2	GAS ID GRO
-----------------------------	-----	-----	---------------

BETX Surrogate Recovery

Trifluorotoluene	94.2%
Bromobenzene	99.3%

Gasoline Surrogate Recovery

Trifluorotoluene	95.1%
Bromobenzene	99.2%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 Page 1 of 1

Sample ID: LCS-031208
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-031208
 LIMS ID: 08-4728
 Matrix: Soil
 Data Release Authorized: *AB*
 Reported: 03/13/08

QC Report No: MM10-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001-02
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 03/12/08 08:41
 LCSD: 03/12/08 09:06
 Instrument/Analyst LCS: PID3/PKC
 LCSD: PID3/PKC

Purge Volume: 5.0 mL
 Sample Amount LCS: 100 mg-dry-wt
 LCSD: 100 mg-dry-wt

Analyte	Spike		LCS		Spike		RPD
	LCS	Added-LCS	Recovery	LCSD	Added-LCSD	Recovery	
Benzene	312	350	89.1%	347	350	99.1%	10.6%
Toluene	2720	3100	87.7%	3010	3100	97.1%	10.1%
Ethylbenzene	509	595	85.5%	571	595	96.0%	11.5%
m,p-Xylene	1930	2230	86.5%	2140	2230	96.0%	10.3%
o-Xylene	702	790	88.9%	780	790	98.7%	10.5%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	99.1%	99.6%
Bromobenzene	100%	101%

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: LCS-031208

LAB CONTROL SAMPLE

Lab Sample ID: LCS-031208

LIMS ID: 08-4728

Matrix: Soil

Data Release Authorized: 

Reported: 03/13/08

QC Report No: MM10-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001-02

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 03/12/08 08:41

LCSD: 03/12/08 09:06

Instrument/Analyst LCS: PID3/PKC

LCSD: PID3/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt

LCSD: 100 mg-dry-wt

Analyte	LCS	Spike	LCS	LCSD	Spike	LCSD	RPD
		Added-LCS	Recovery		Added-LCSD	Recovery	
Gasoline Range Hydrocarbons	48.8	50.0	97.6%	53.8	50.0	108%	9.7%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	98.3%	98.8%
Bromobenzene	102%	104%

AC
5/13/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080312-2.b/0312a006.d ARI ID: MB0312S1
Data file 2: /chem3/pid3.i/20080312-1.b/0312a006.d Client ID:
Method: /chem3/pid3.i/20080312-1.b/PIDB.m Injection Date: 12-MAR-2008 09:30
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.939	0.000	6965	91541	99.3	TFT(Surr)
13.628	-0.002	3513	40147	103.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	3182	0.004
8015B (2MP-TMB)	2	0.000
AKGas (nC6-nC10)	1	0.000
NWGas (Tol-Nap)	4348	0.005

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.938	0.000	27461	98.4	TFT(Surr)
13.627	-0.002	48329	101.6	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.1/20080312-2.bv/0312a006.d

Date: 12-MAR-2008 09:30

Client ID:

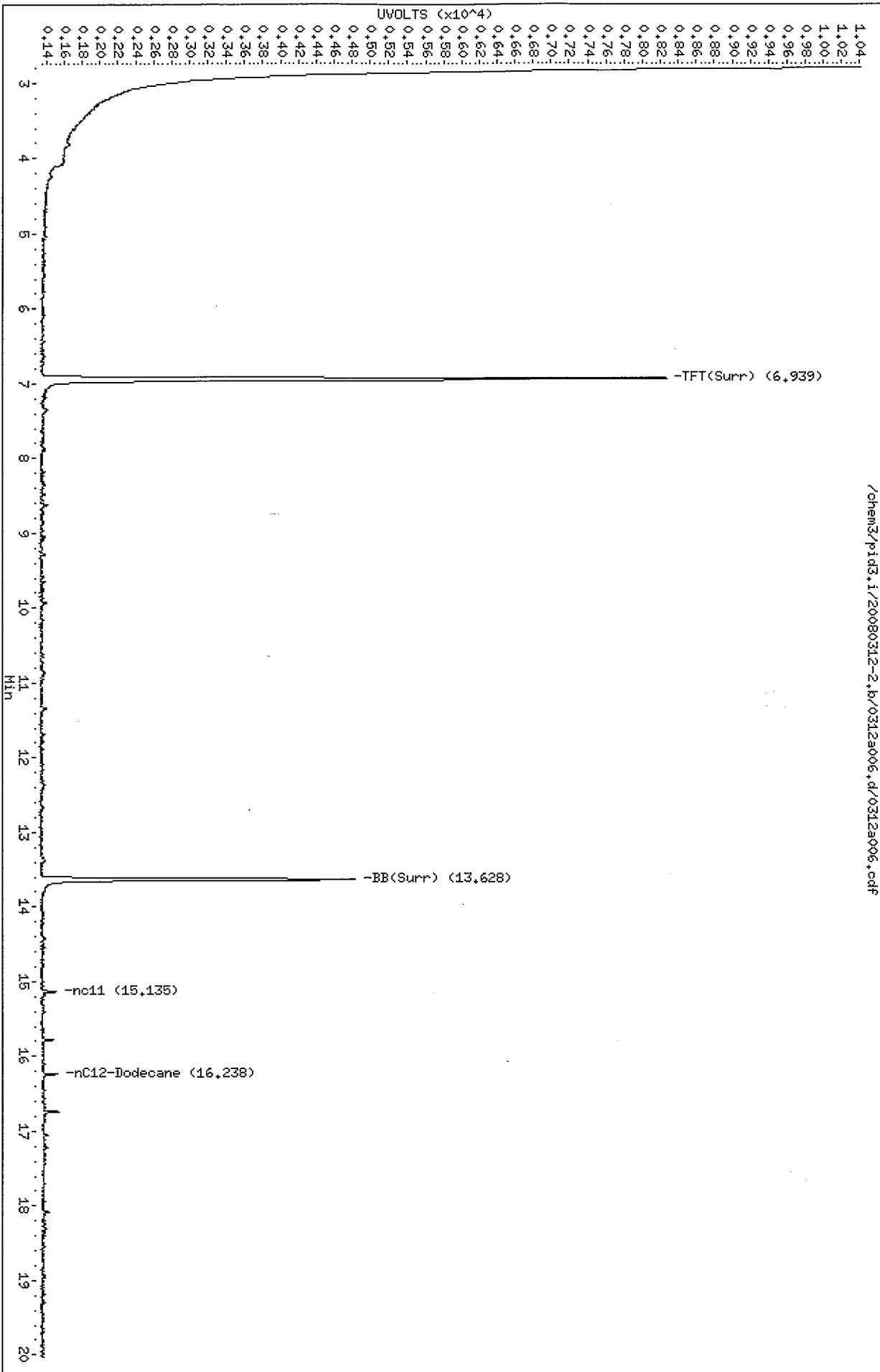
Sample Info: MB0312S1

Column phase: RTX 502-2 FID

Instrument: pid3.1

Operator: PC

Column diameter: 0.18



Data File: /chem3/pid3.i/20080312-1.b/0312a006.d

Date: 12-MAR-2008 09:30

Client ID:

Sample Info: MB0312S1

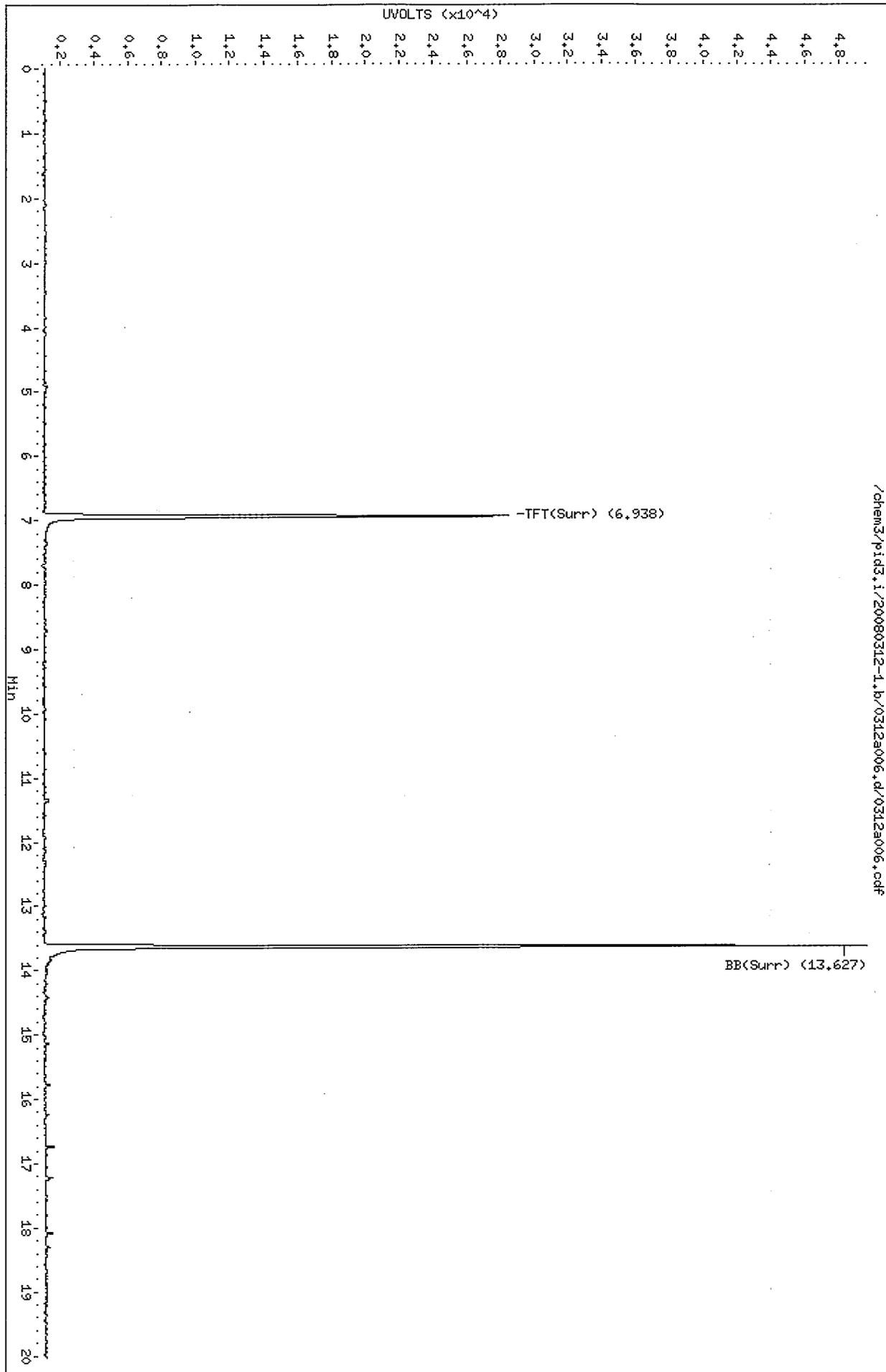
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: PC

Column diameter: 0.18

/chem3/pid3.i/20080312-1.b/0312a006.d/0312a006.cdf



PC
3/13/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080312-2.b/0312a004.d ARI ID: LCS0312S1
Data file 2: /chem3/pid3.i/20080312-1.b/0312a004.d Client ID:
Method: /chem3/pid3.i/20080312-1.b/PIDB.m Injection Date: 12-MAR-2008 08:41
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.938	0.000	6900	94019	98.3	TFT (Surr)
13.628	-0.002	3453	40484	102.1	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	811188	0.972
8015B (2MP-TMB)	1616132	0.921
AKGas (nC6-nC10)	1143608	0.933
NWGas (Tol-Nap)	853088	0.977

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.937	0.000	27661	99.1	TFT (Surr)
13.626	-0.002	47705	100.3	BB (Surr)

AROMATICS (PID)

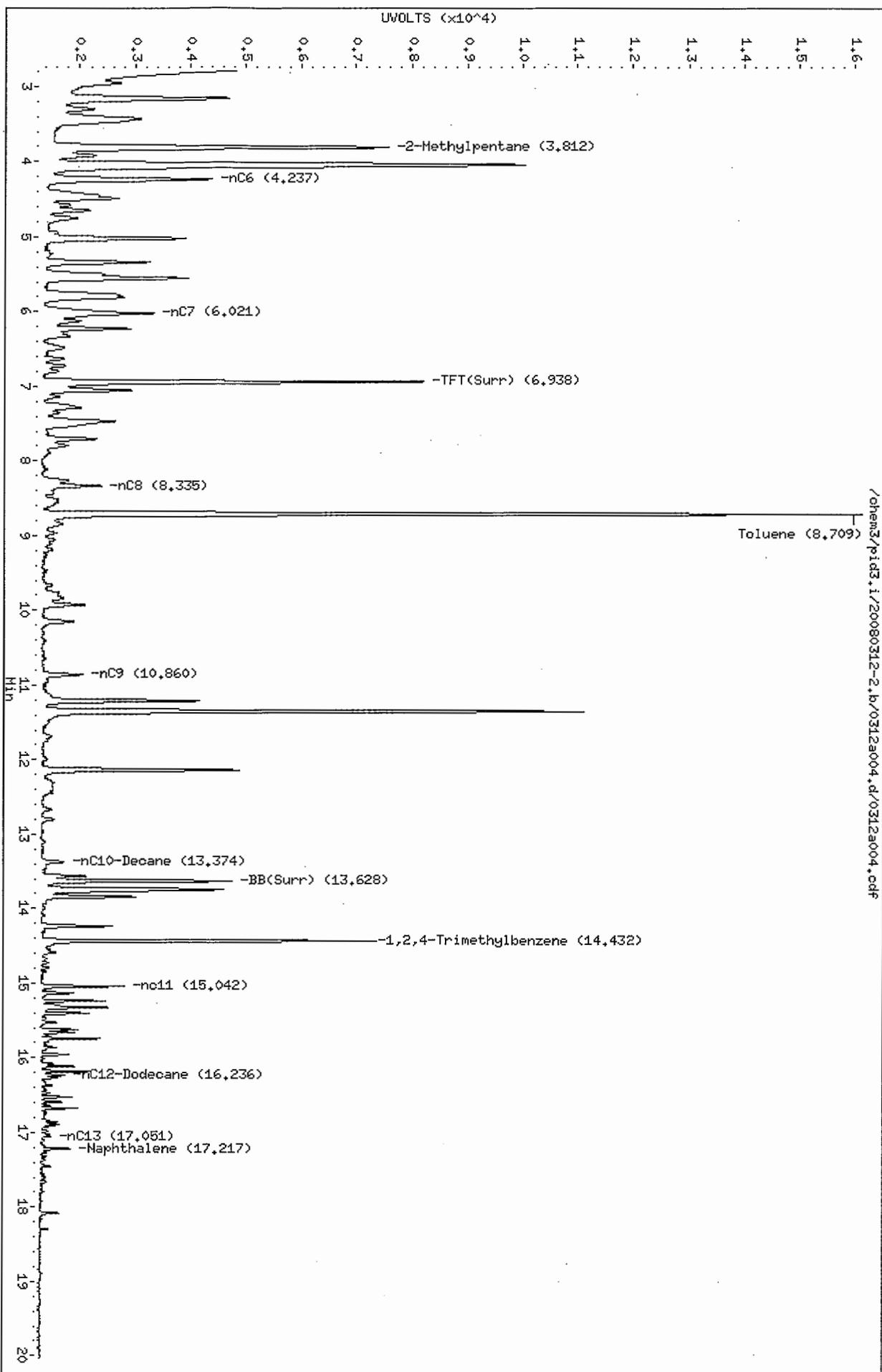
RT	Shift	Response	Amount	Compound
6.224	0.000	10779	6.24	Benzene
8.708	-0.001	97148	54.33	Toluene
11.208	-0.002	16483	10.18	Ethylbenzene
11.346	0.000	67979	38.62	M/P-Xylene
12.134	-0.002	20978	14.05	O-Xylene
4.049	0.002	34850	72.92	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080312-2.b/0312a004.d
Date: 12-MAR-2008 08:44
Client ID:
Sample Infol: LCS031251

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



Data File: /chem3/pid3.i/20080312-1.b/0312a004.d

Date: 12-MAR-2008 08:41

Client ID:

Sample Info: LCS0312S1

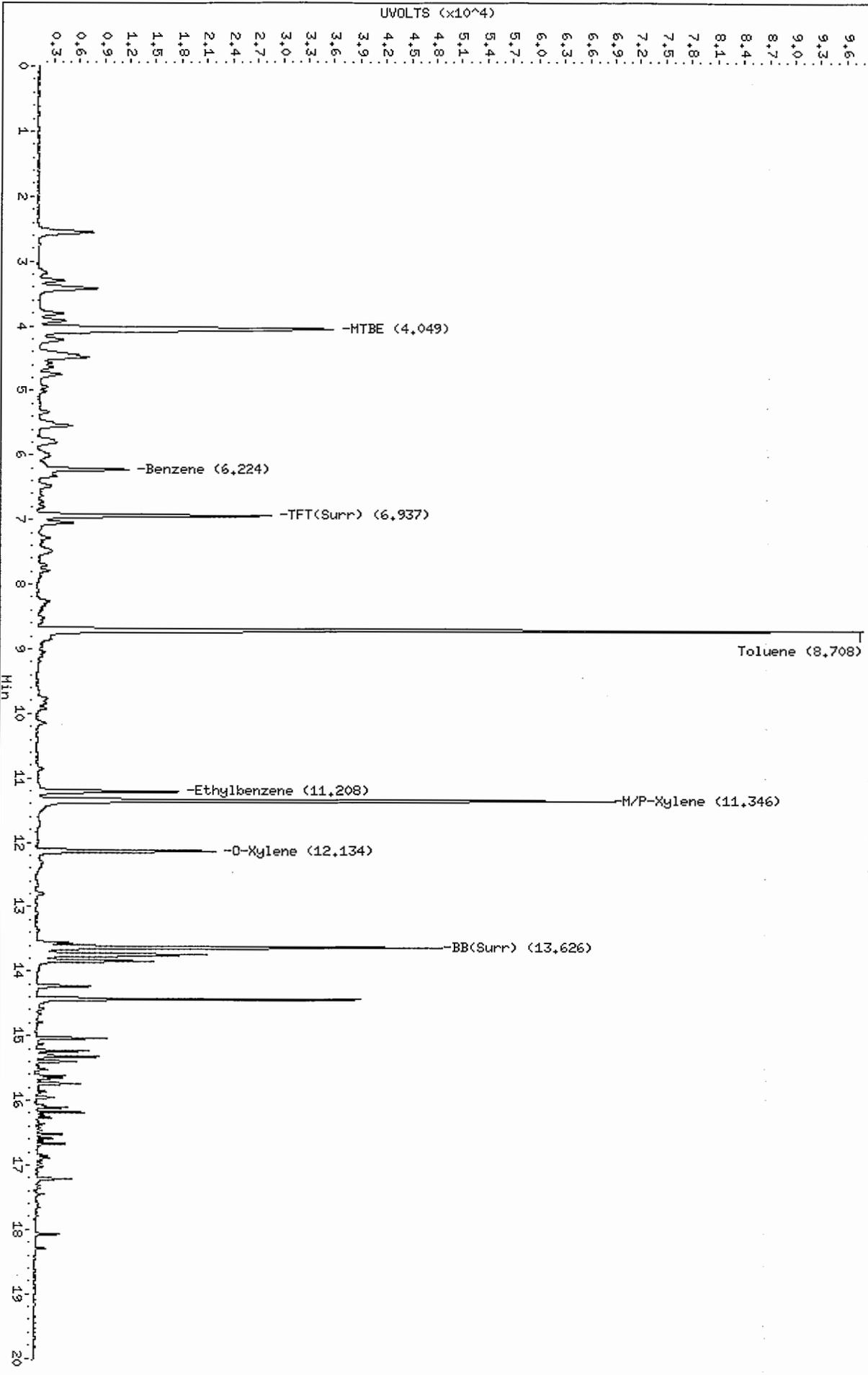
Column Phase: RTX 502-2 PID

Instrument: pid3.i

Operator: PC

Column diameter: 0.18

/chem3/pid3.i/20080312-1.b/0312a004.d/0312a004.cdf



PC
3/13/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080312-2.b/0312a005.d ARI ID: LCSD0312S1
Data file 2: /chem3/pid3.i/20080312-1.b/0312a005.d Client ID:
Method: /chem3/pid3.i/20080312-1.b/PIDB.m Injection Date: 12-MAR-2008 09:06
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.938	0.000	6933	96449	98.8	TFT(Surr)
13.627	-0.002	3524	41476	104.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	895759	1.073
8015B (2MP-TMB)	1806415	1.030
AKGas (nC6-nC10)	1272160	1.038
NWGas (Tol-Nap)	940428	1.077

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.937	-0.001	27819	99.6	TFT(Surr)
13.626	-0.002	48105	101.2	BB(Surr)

AROMATICICS (PID)

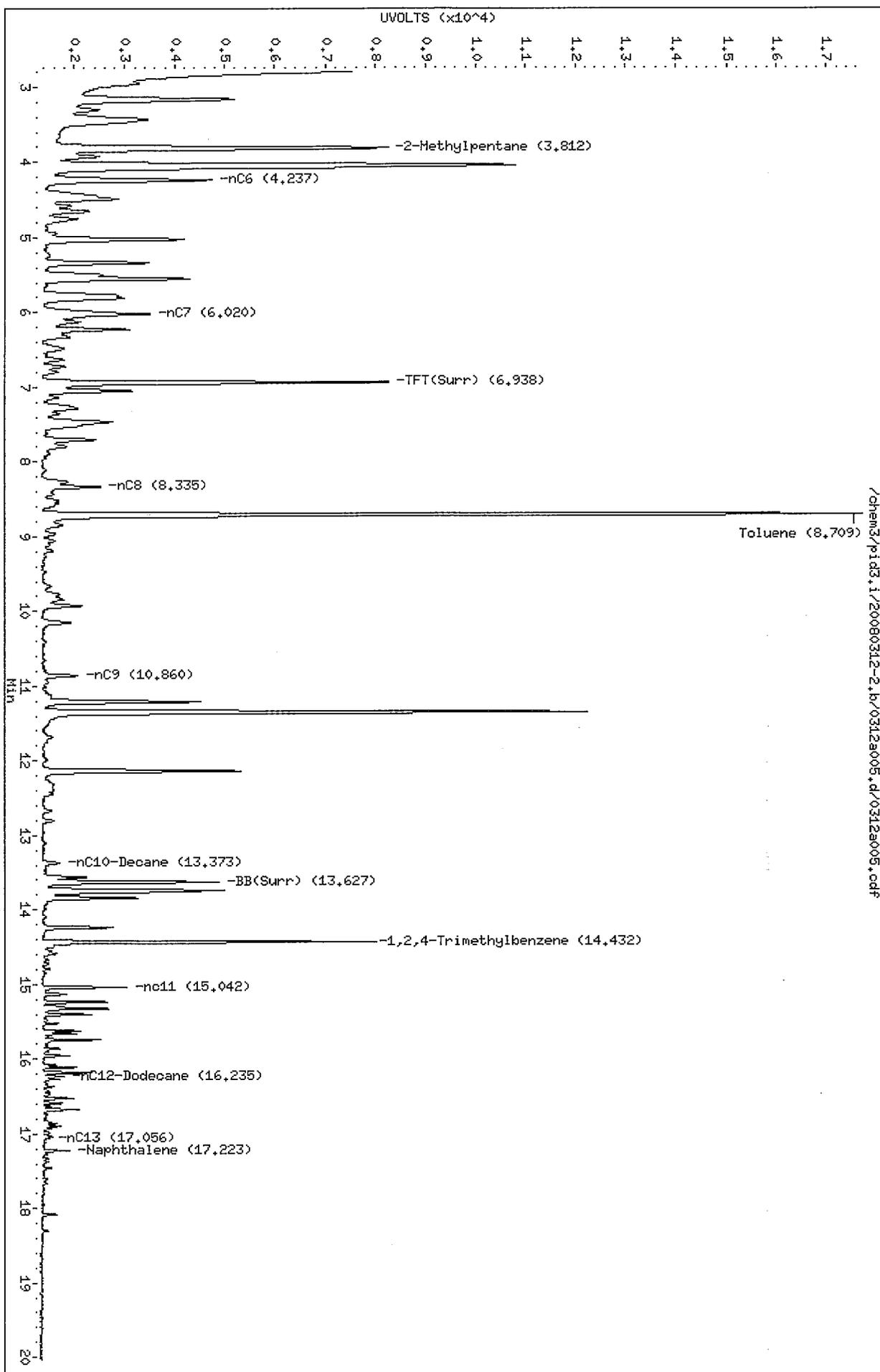
RT	Shift	Response	Amount	Compound
6.225	0.000	11991	6.94	Benzene
8.707	-0.001	107731	60.25	Toluene
11.208	-0.002	18490	11.42	Ethylbenzene
11.346	0.000	75513	42.90	M/P-Xylene
12.134	-0.002	23295	15.60	O-Xylene
4.050	0.003	37392	78.24	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080312-2.b/0312a005.d
Date: 12-MAR-2008 09:06
Client ID:
Sample Info: LCSD0312S1

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



Data File: /chem3/pid3.i/20080312-1.b/0312a005.d

Date: 12-MAR-2008 09:06

Client ID:

Sample Info: LCSD0312S1

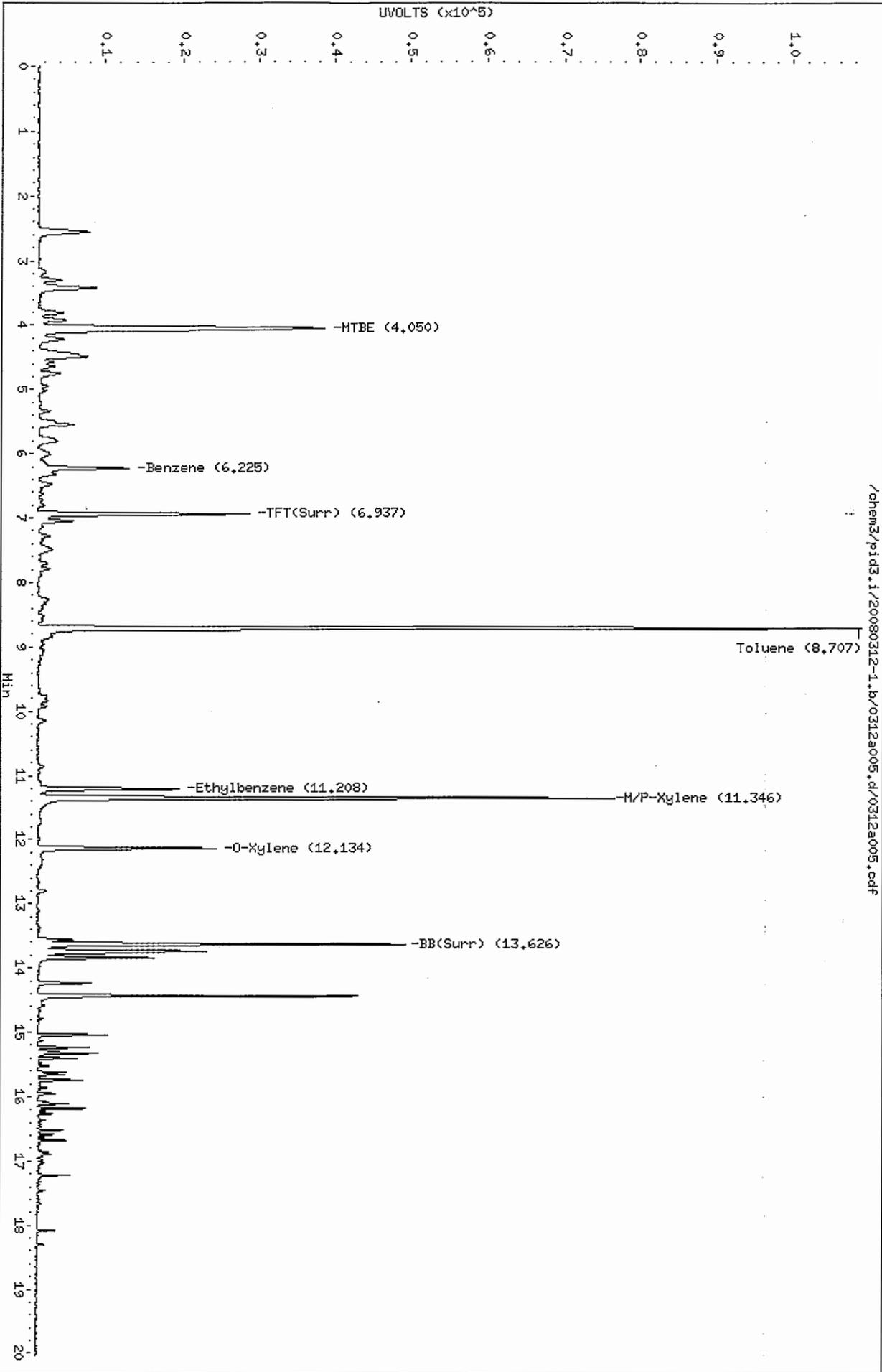
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: PC

Column diameter: 0.18

/chem3/pid3.i/20080312-1.b/0312a005.d/0312a005.pdf



PC
3/13/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080312-2.b/0312a009.d ARI ID: MM10A
Data file 2: /chem3/pid3.i/20080312-1.b/0312a009.d Client ID: SS-3-2
Method: /chem3/pid3.i/20080312-1.b/PIDB.m Injection Date: 12-MAR-2008 11:10
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.938	0.000	6456	86219	92.0	TFT (Surr)
13.629	-0.001	3279	39035	97.0	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	7942	0.010
8015B (2MP-TMB)	6386	0.004
AKGas (nC6-nC10)	6386	0.005
NWGas (Tol-Nap)	9263	0.011

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.937	0.000	25319	90.7	TFT (Surr)
13.628	-0.001	45126	94.9	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080312-2.b/0312a009.d

Date: 12-MAR-2008 11:10

Client ID: SS-3-2

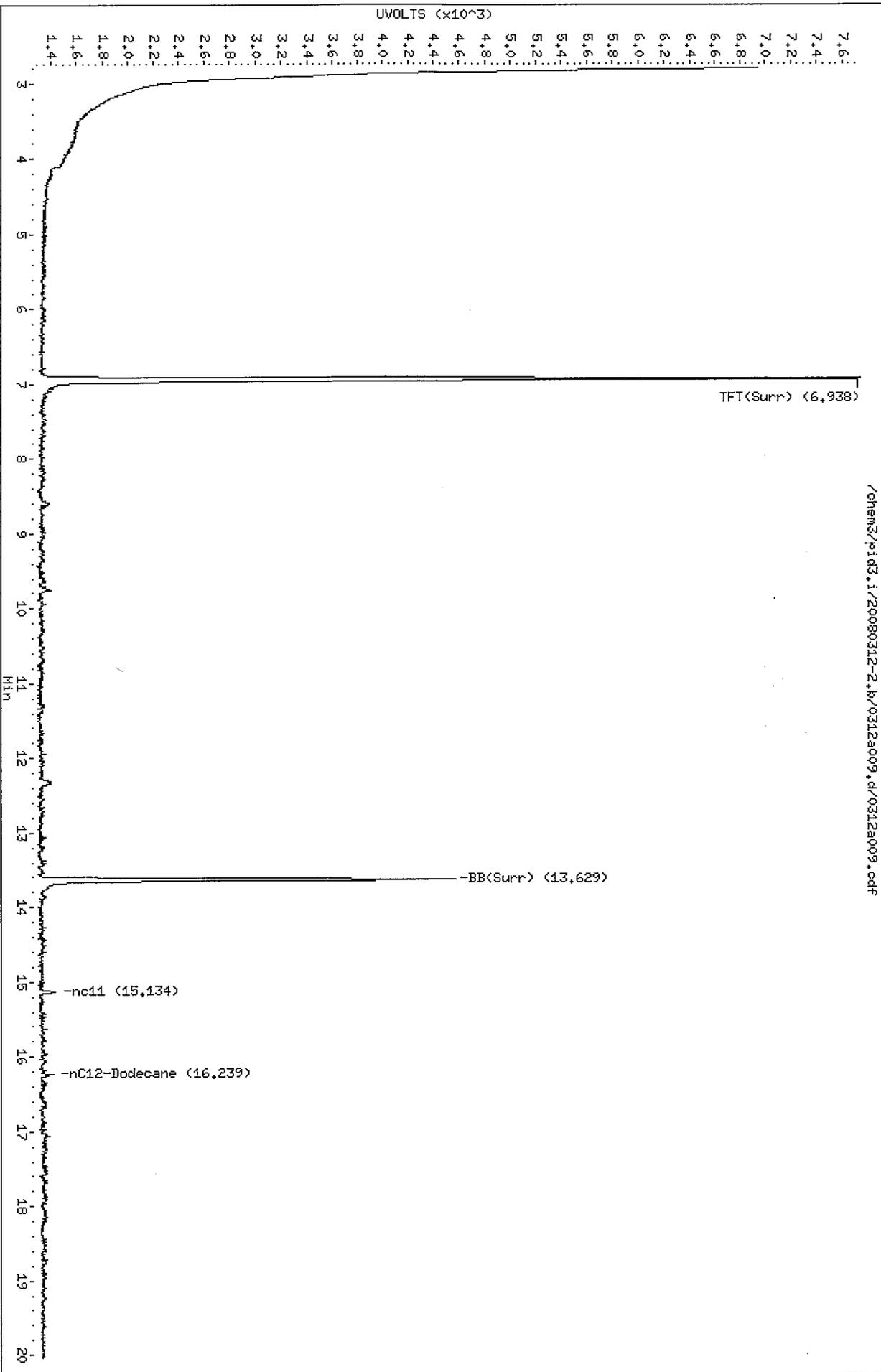
Sample Info: MH10A

Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: PC

Column diameter: 0.18



Data File: /chem3/pid3.i/20080312-1.b/0312a009.d

Date: 12-MAR-2008 11:10

Client ID: SS-3-2

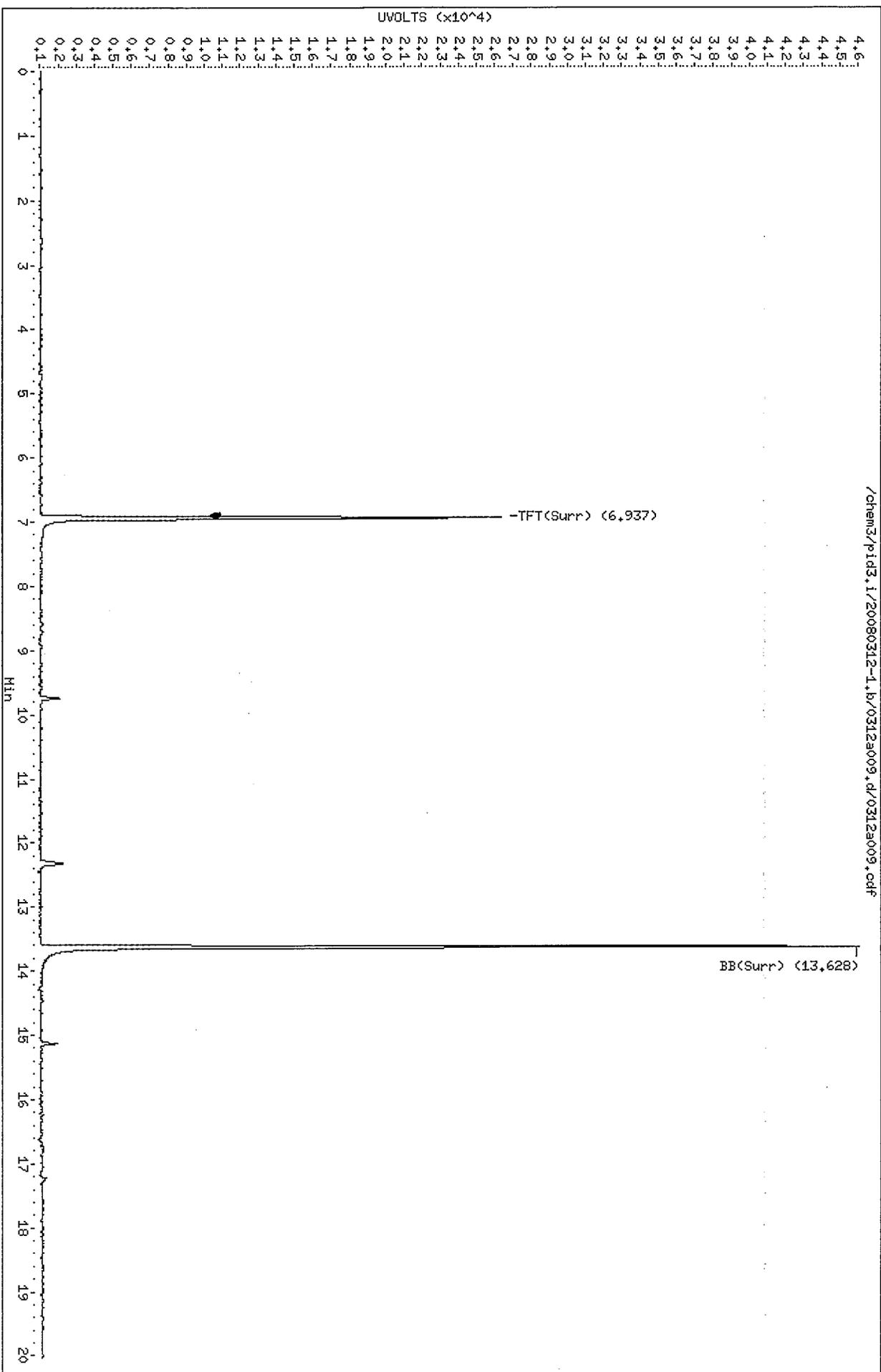
Sample Info: MHL0A

Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: PC

Column diameter: 0.18



AC
3/13/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080312-2.b/0312a010.d ARI ID: MM10B
Data file 2: /chem3/pid3.i/20080312-1.b/0312a010.d Client ID: SS-4-1.5
Method: /chem3/pid3.i/20080312-1.b/PIDB.m Injection Date: 12-MAR-2008 11:35
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.937	-0.001	6243	82361	89.0	TFT(Surr)
13.629	-0.001	3128	35964	92.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	1060	0.001
8015B (2MP-TMB)	1	0.000
AKGas (nC6-nC10)	1	0.000
NWGas (Tol-Nap)	1060	0.001

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.936	-0.001	24770	88.7	TFT(Surr)
13.627	-0.001	43550	91.6	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080312-2.bv/0312a010.d

Date: 12-MAR-2008 11:35

Client ID: SS-4-1.5

Sample Info: MH10B

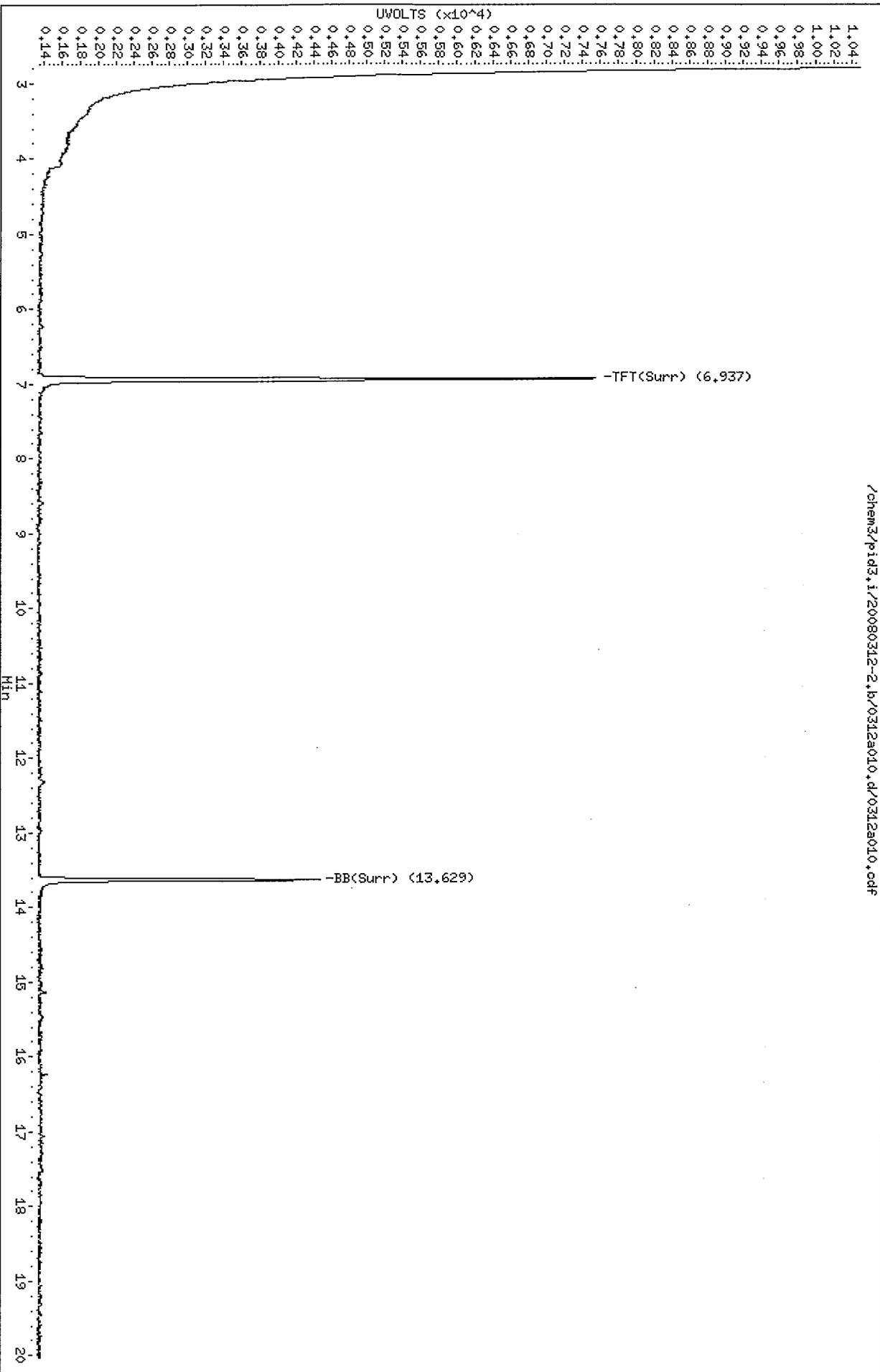
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: PC

Column diameter: 0.18

/chem3/pid3.i/20080312-2.bv/0312a010.d/0312a010.pdf



Data File: /chem3/pid3.i/20080312-1.br/0312a010.d

Date: 12-MAR-2008 11:35

Client ID: SS-4-1,5

Sample Info: MH10B

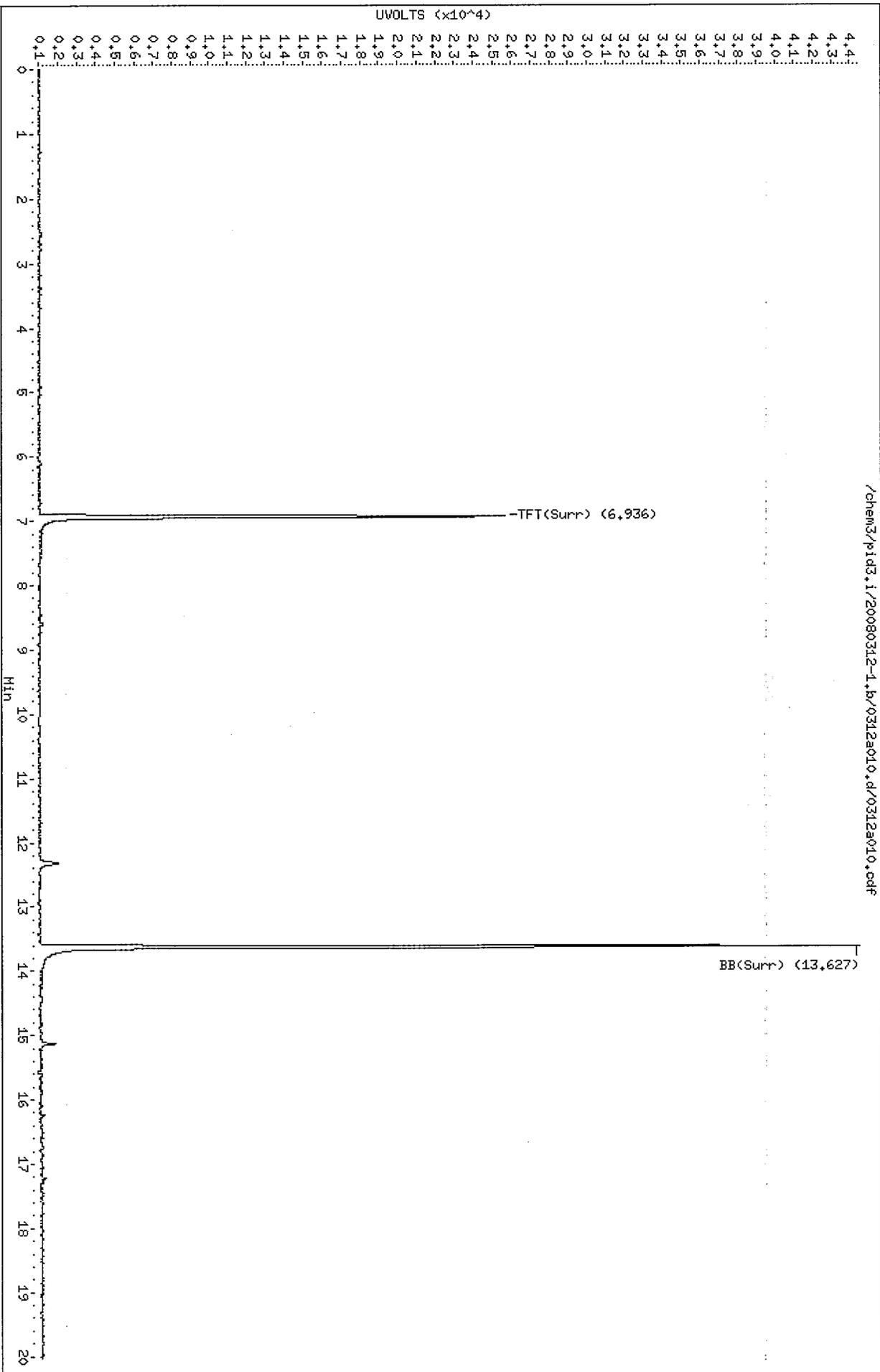
Instrument: pid3.i

Operator: PC

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid3.i/20080312-1.br/0312a010.d/0312a010.pdf



PC
3/13/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080312-2.b/0312a011.d ARI ID: MM10C
Data file 2: /chem3/pid3.i/20080312-1.b/0312a011.d Client ID: SS-5-2
Method: /chem3/pid3.i/20080312-1.b/PIDB.m Injection Date: 12-MAR-2008 12:00
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.939	0.000	6612	87561	94.2	TFT (Surr)
13.629	-0.001	3384	39224	100.1	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	19032	0.023
8015B (2MP-TMB)	16593	0.009
AKGas (nC6-nC10)	16593	0.014
NWGas (Tol-Nap)	19032	0.022

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.937	0.000	26323	94.3	TFT (Surr)
13.627	-0.001	46563	97.9	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
8.709	0.000	6451	3.61	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080312-2.b/0312a011.d

Date: 12-MAR-2008 12:00

Client ID: SS-5-2

Sample Info: HM10C

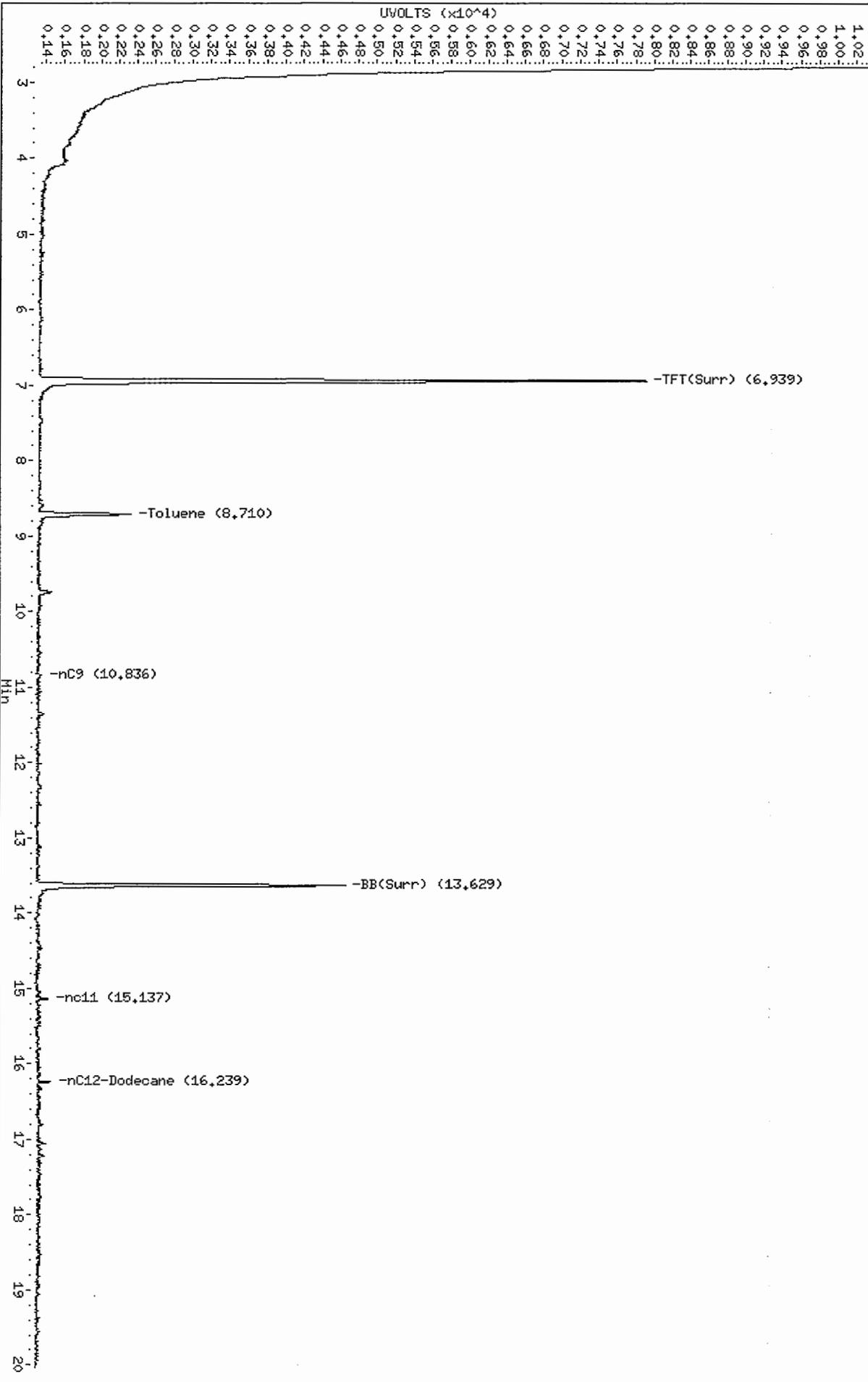
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: PC

Column diameter: 0.18

/chem3/pid3.i/20080312-2.b/0312a011.d/0312a011.pdf



Data File: /chem3/pid3.i/20080312-1.b/0312a011.d

Date: 12-MAR-2008 12:00

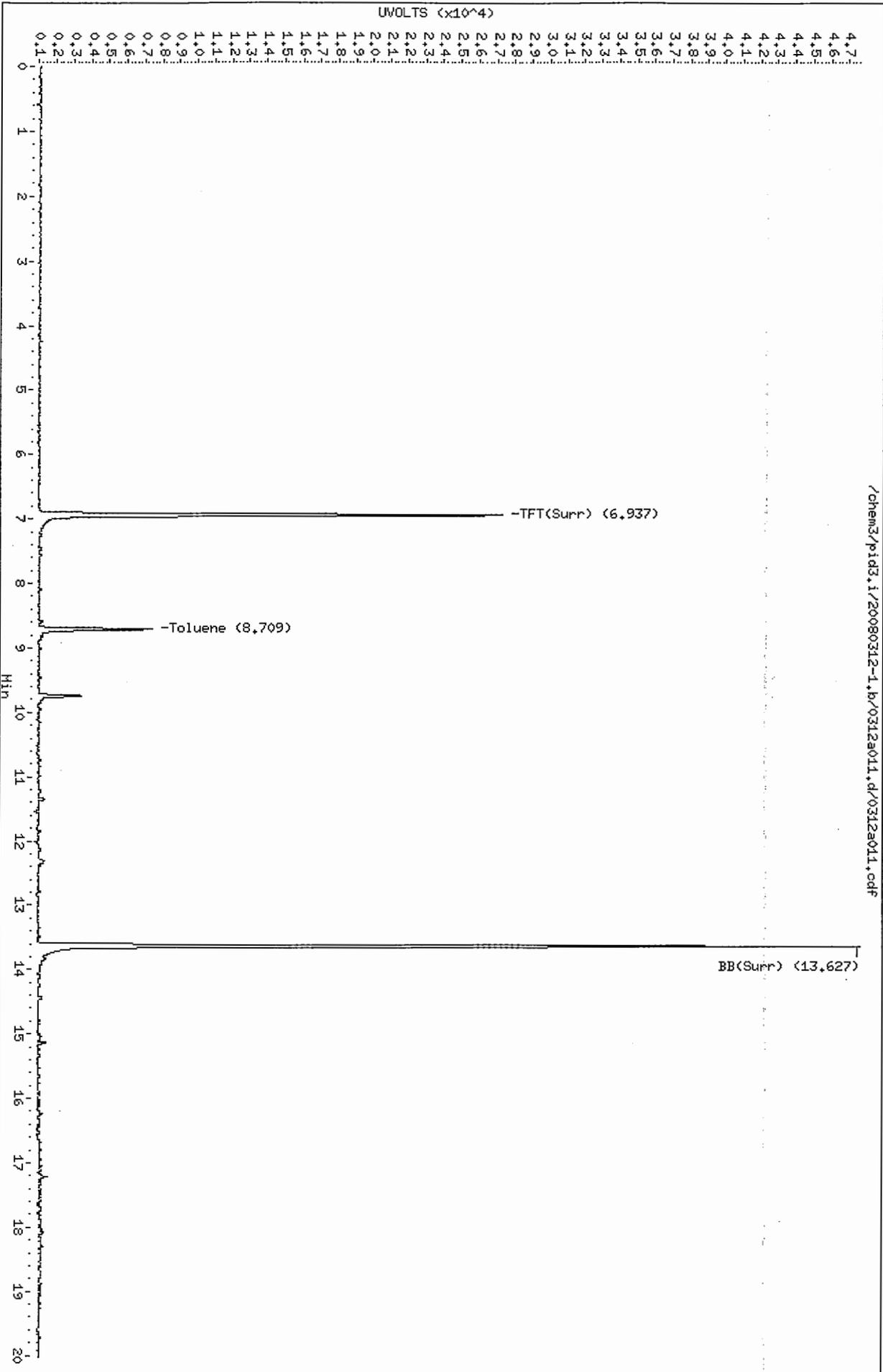
Client ID: SS-5-2

Sample Info: HH10C

Instrument: pid3.i

Column phase: RTX 502-2 PID

Operator: PC
Column diameter: 0.18



RC
3/13/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080312-2.b/0312a012.d ARI ID: MM10D
Data file 2: /chem3/pid3.i/20080312-1.b/0312a012.d Client ID: SS-6-1.5
Method: /chem3/pid3.i/20080312-1.b/PIDB.m Injection Date: 12-MAR-2008 12:24
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.939	0.000	6675	87849	95.1	TFT(Surr)
13.628	-0.001	3354	39255	99.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	93680	0.112
8015B (2MP-TMB)	56502	0.032
AKGas (nC6-nC10)	53058	0.043
NWGas (Tol-Nap)	107610	0.123 <i>spd</i>

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.937	0.000	26298	94.2	TFT(Surr)
13.627	-0.001	47235	99.3	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

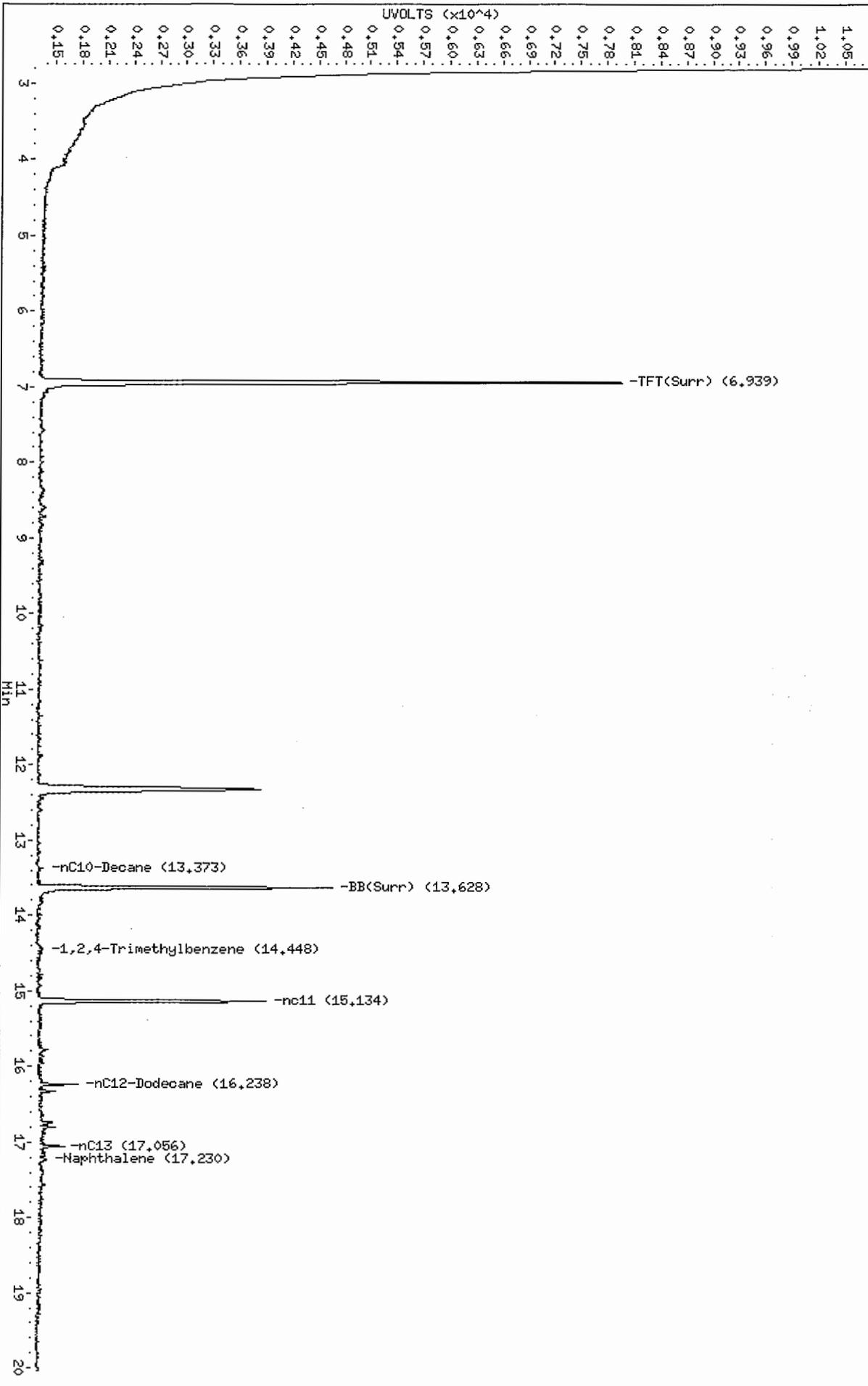
Data File: /chem3/pid3.i/20080312-2.b/0312a012.d
Date: 12-MAR-2008 12:24
Client ID: SS-6-1.5
Sample Info: MH10D

Instrument: pid3.i

Column phase: RTX 502-2 FID

Operator: PC
Column diameter: 0.18

/chem3/pid3.i/20080312-2.b/0312a012.d/0312a012.cdf

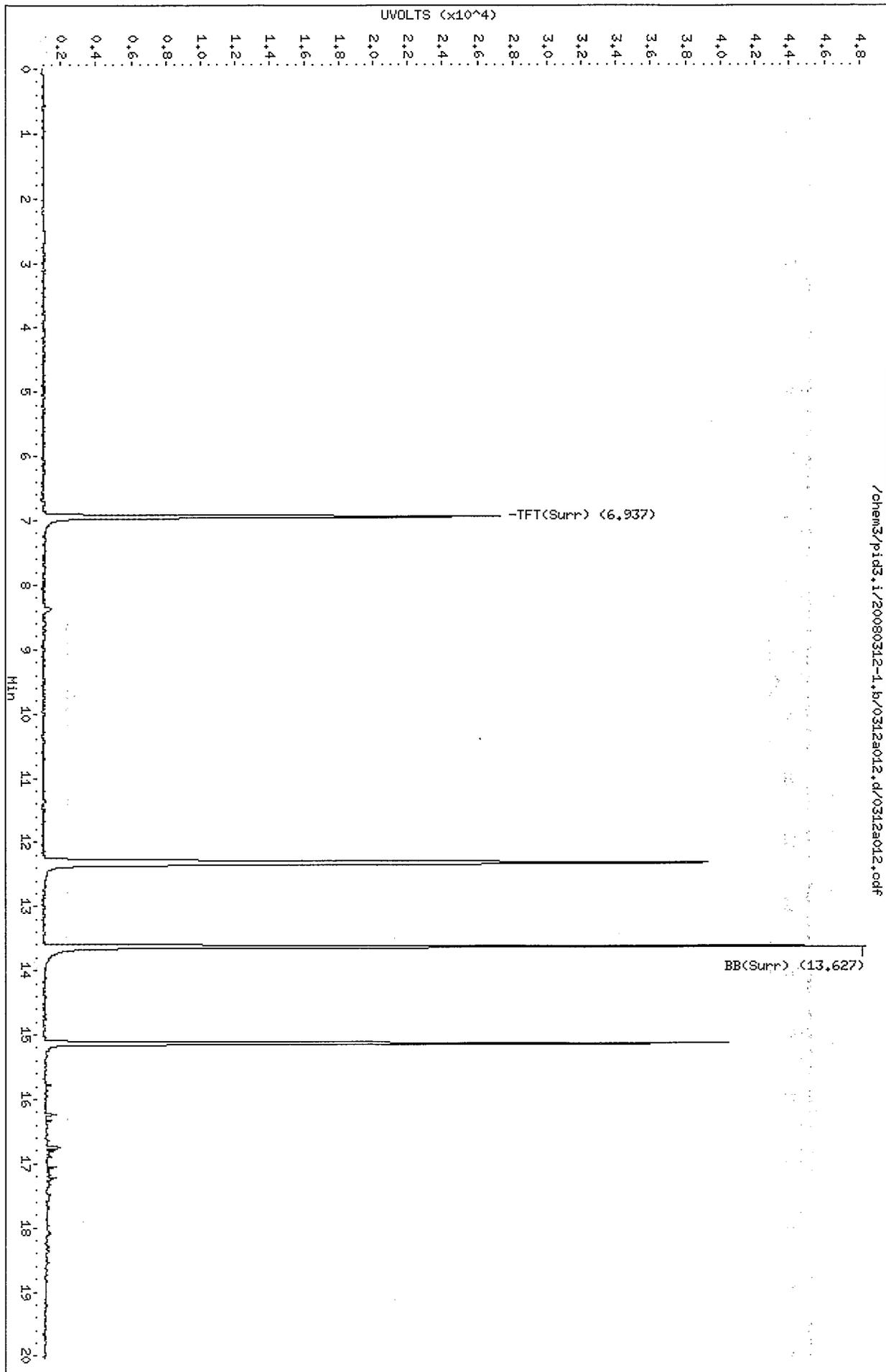


Data File: /chem3/pid3.i/20080312-1.b/0312a012.d
Date: 12-MAR-2008 12:24
Client ID: SS-6-1.5
Sample Info: MH10D

Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18

/chem3/pid3.i/20080312-1.b/0312a012.d/0312a012.pdf



ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: MB-031308
METHOD BLANK

Lab Sample ID: MB-031308
LIMS ID: 08-4728
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 03/17/08

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02
Date Sampled: NA
Date Received: NA

Date Extracted: 03/13/08
Date Analyzed: 03/15/08 13:25
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	67	< 67 U
111-44-4	Bis-(2-Chloroethyl) Ether	67	< 67 U
95-57-8	2-Chlorophenol	67	< 67 U
541-73-1	1,3-Dichlorobenzene	67	< 67 U
106-46-7	1,4-Dichlorobenzene	67	< 67 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	67	< 67 U
95-48-7	2-Methylphenol	67	< 67 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	67	< 67 U
106-44-5	4-Methylphenol	67	< 67 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	67	< 67 U
98-95-3	Nitrobenzene	67	< 67 U
78-59-1	Isophorone	67	< 67 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	67	< 67 U
65-85-0	Benzoic Acid	670	< 670 U
111-91-1	bis(2-Chloroethoxy) Methane	67	< 67 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	67	< 67 U
91-20-3	Naphthalene	67	< 67 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	67	< 67 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	67	< 67 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	67	< 67 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	67	< 67 U
51-28-5	2,4-Dinitrophenol	670	< 670 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	67	< 67 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: MB-031308
METHOD BLANK

Lab Sample ID: MB-031308
LIMS ID: 08-4728
Matrix: Soil
Date Analyzed: 03/15/08 13:25

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	67	< 67 U
7005-72-3	4-Chlorophenyl-phenylether	67	< 67 U
86-73-7	Fluorene	67	< 67 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670	< 670 U
86-30-6	N-Nitrosodiphenylamine	67	< 67 U
101-55-3	4-Bromophenyl-phenylether	67	< 67 U
118-74-1	Hexachlorobenzene	67	< 67 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	67	< 67 U
86-74-8	Carbazole	67	< 67 U
120-12-7	Anthracene	67	< 67 U
84-74-2	Di-n-Butylphthalate	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
85-68-7	Butylbenzylphthalate	67	< 67 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	67	< 67 U
117-81-7	bis(2-Ethylhexyl)phthalate	67	< 67 U
218-01-9	Chrysene	67	< 67 U
117-84-0	Di-n-Octyl phthalate	67	< 67 U
205-99-2	Benzo(b)fluoranthene	67	< 67 U
207-08-9	Benzo(k)fluoranthene	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U
90-12-0	1-Methylnaphthalene	67	< 67 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.8%	2-Fluorobiphenyl	63.6%
d14-p-Terphenyl	83.2%	d4-1,2-Dichlorobenzene	54.8%
d5-Phenol	72.8%	2-Fluorophenol	69.3%
2,4,6-Tribromophenol	79.5%	d4-2-Chlorophenol	71.5%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: SS-3-2
SAMPLE

Lab Sample ID: MM10A
LIMS ID: 08-4728
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 03/17/08

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02
Date Sampled: 03/05/08
Date Received: 03/07/08

Date Extracted: 03/13/08
Date Analyzed: 03/15/08 16:42
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 7.51 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 20.9%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	67	< 67 U
111-44-4	Bis-(2-Chloroethyl) Ether	67	< 67 U
95-57-8	2-Chlorophenol	67	< 67 U
541-73-1	1,3-Dichlorobenzene	67	< 67 U
106-46-7	1,4-Dichlorobenzene	67	< 67 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	67	< 67 U
95-48-7	2-Methylphenol	67	< 67 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	67	< 67 U
106-44-5	4-Methylphenol	67	< 67 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	67	< 67 U
98-95-3	Nitrobenzene	67	< 67 U
78-59-1	Isophorone	67	< 67 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	67	< 67 U
65-85-0	Benzoic Acid	670	< 670 U
111-91-1	bis(2-Chloroethoxy) Methane	67	< 67 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	67	< 67 U
91-20-3	Naphthalene	67	< 67 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	67	< 67 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	67	< 67 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	67	< 67 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	67	< 67 U
208-96-8	Acenaphthylene	67	87
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	67	< 67 U
51-28-5	2,4-Dinitrophenol	670	< 670 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	67	< 67 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: SS-3-2
SAMPLE

Lab Sample ID: MM10A
LIMS ID: 08-4728
Matrix: Soil
Date Analyzed: 03/15/08 16:42

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	67	< 67 U
7005-72-3	4-Chlorophenyl-phenylether	67	< 67 U
86-73-7	Fluorene	67	< 67 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670	< 670 U
86-30-6	N-Nitrosodiphenylamine	67	< 67 U
101-55-3	4-Bromophenyl-phenylether	67	< 67 U
118-74-1	Hexachlorobenzene	67	< 67 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	67	< 67 U
86-74-8	Carbazole	67	< 67 U
120-12-7	Anthracene	67	< 67 U
84-74-2	Di-n-Butylphthalate	67	< 67 U
206-44-0	Fluoranthene	67	240
129-00-0	Pyrene	67	330
85-68-7	Butylbenzylphthalate	67	< 67 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo (a) anthracene	67	290
117-81-7	bis (2-Ethylhexyl) phthalate	67	< 67 U
218-01-9	Chrysene	67	350
117-84-0	Di-n-Octyl phthalate	67	< 67 U
205-99-2	Benzo (b) fluoranthene	67	350
207-08-9	Benzo (k) fluoranthene	67	470
50-32-8	Benzo (a) pyrene	67	530
193-39-5	Indeno (1,2,3-cd) pyrene	67	280
53-70-3	Dibenz (a,h) anthracene	67	69
191-24-2	Benzo (g,h,i) perylene	67	280
90-12-0	1-Methylnaphthalene	67	< 67 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	55.2%	2-Fluorobiphenyl	64.4%
d14-p-Terphenyl	68.0%	d4-1,2-Dichlorobenzene	56.4%
d5-Phenol	59.5%	2-Fluorophenol	59.5%
2,4,6-Tribromophenol	70.4%	d4-2-Chlorophenol	62.7%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: SS-4-1.5
SAMPLE

Lab Sample ID: MM10B
LIMS ID: 08-4729
Matrix: Soil
Data Release Authorized:
Reported: 03/17/08

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02
Date Sampled: 03/05/08
Date Received: 03/07/08

Date Extracted: 03/13/08
Date Analyzed: 03/15/08 17:14
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 7.82 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 13.3%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: SS-4-1.5
SAMPLE

Lab Sample ID: MM10B
LIMS ID: 08-4729
Matrix: Soil
Date Analyzed: 03/15/08 17:14

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	100
129-00-0	Pyrene	64	120
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo (a) anthracene	64	75
117-81-7	bis (2-Ethylhexyl) phthalate	64	< 64 U
218-01-9	Chrysene	64	100
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo (b) fluoranthene	64	220
207-08-9	Benzo (k) fluoranthene	64	280
50-32-8	Benzo (a) pyrene	64	180
193-39-5	Indeno (1,2,3-cd) pyrene	64	260
53-70-3	Dibenz (a,h) anthracene	64	< 64 U
191-24-2	Benzo (g,h,i) perylene	64	330
90-12-0	1-Methylnaphthalene	64	< 64 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	55.6%	2-Fluorobiphenyl	65.2%
d14-p-Terphenyl	74.8%	d4-1,2-Dichlorobenzene	58.8%
d5-Phenol	64.3%	2-Fluorophenol	62.9%
2,4,6-Tribromophenol	73.9%	d4-2-Chlorophenol	65.6%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: SS-5-2
SAMPLE

Lab Sample ID: MM10C
LIMS ID: 08-4730
Matrix: Soil
Data Release Authorized:
Reported: 03/17/08

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02
Date Sampled: 03/06/08
Date Received: 03/07/08

Date Extracted: 03/13/08
Date Analyzed: 03/15/08 17:47
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 7.55 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 11.6%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U

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Semivolatiles by SW8270D GC/MS
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Sample ID: SS-5-2
SAMPLE

Lab Sample ID: MM10C
LIMS ID: 08-4730
Matrix: Soil
Date Analyzed: 03/15/08 17:47

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U
90-12-0	1-Methylnaphthalene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.0%	2-Fluorobiphenyl	71.6%
d14-p-Terphenyl	76.0%	d4-1,2-Dichlorobenzene	62.4%
d5-Phenol	69.3%	2-Fluorophenol	66.9%
2,4,6-Tribromophenol	80.5%	d4-2-Chlorophenol	69.9%

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Semivolatiles by SW8270D GC/MS
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Sample ID: SS-6-1.5
SAMPLE

Lab Sample ID: MM10D
LIMS ID: 08-4731
Matrix: Soil
Data Release Authorized:
Reported: 03/17/08

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02
Date Sampled: 03/06/08
Date Received: 03/07/08

Date Extracted: 03/13/08
Date Analyzed: 03/15/08 18:19
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 7.77 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 8.6%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U

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Semivolatiles by SW8270D GC/MS
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Sample ID: SS-6-1.5
SAMPLE

Lab Sample ID: MM10D
LIMS ID: 08-4731
Matrix: Soil
Date Analyzed: 03/15/08 18:19

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo (a) anthracene	64	< 64 U
117-81-7	bis (2-Ethylhexyl) phthalate	64	400
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo (b) fluoranthene	64	< 64 U
207-08-9	Benzo (k) fluoranthene	64	< 64 U
50-32-8	Benzo (a) pyrene	64	< 64 U
193-39-5	Indeno (1,2,3-cd) pyrene	64	< 64 U
53-70-3	Dibenz (a,h) anthracene	64	< 64 U
191-24-2	Benzo (g,h,i) perylene	64	< 64 U
90-12-0	1-Methylnaphthalene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	58.4%	2-Fluorobiphenyl	69.2%
d14-p-Terphenyl	70.0%	d4-1,2-Dichlorobenzene	62.8%
d5-Phenol	66.7%	2-Fluorophenol	64.5%
2,4,6-Tribromophenol	75.5%	d4-2-Chlorophenol	68.3%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: LCS-031308
LAB CONTROL

Lab Sample ID: LCS-031308
LIMS ID: 08-4728
Matrix: Soil
Data Release Authorized: 
Reported: 03/17/08

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02
Date Sampled: 03/05/08
Date Received: 03/07/08

Date Extracted: 03/13/08
Date Analyzed: 03/15/08 13:58
Instrument/Analyst: NT6/LJR
GPC Cleanup: NO

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Phenol	1190	1670	71.3%
Bis-(2-Chloroethyl) Ether	1020	1670	61.1%
2-Chlorophenol	1170	1670	70.1%
1,3-Dichlorobenzene	1020	1670	61.1%
1,4-Dichlorobenzene	986	1670	59.0%
Benzyl Alcohol	2120	3330	63.7%
1,2-Dichlorobenzene	1020	1670	61.1%
2-Methylphenol	1200	1670	71.9%
2,2'-Oxybis(1-Chloropropane)	1100	1670	65.9%
4-Methylphenol	2410	3330	72.4%
N-Nitroso-Di-N-Propylamine	1150	1670	68.9%
Hexachloroethane	983	1670	58.9%
Nitrobenzene	1090	1670	65.3%
Isophorone	1220	1670	73.1%
2-Nitrophenol	1120	1670	67.1%
2,4-Dimethylphenol	1150	1670	68.9%
Benzoic Acid	3610	5000	72.2%
bis(2-Chloroethoxy) Methane	1130	1670	67.7%
2,4-Dichlorophenol	1190	1670	71.3%
1,2,4-Trichlorobenzene	1040	1670	62.3%
Naphthalene	1050	1670	62.9%
4-Chloroaniline	2490	4000	62.2%
Hexachlorobutadiene	1010	1670	60.5%
4-Chloro-3-methylphenol	1250	1670	74.9%
2-Methylnaphthalene	1140	1670	68.3%
Hexachlorocyclopentadiene	3300	5000	66.0%
2,4,6-Trichlorophenol	1280	1670	76.6%
2,4,5-Trichlorophenol	1220	1670	73.1%
2-Chloronaphthalene	1120	1670	67.1%
2-Nitroaniline	1240	1670	74.3%
Dimethylphthalate	1220	1670	73.1%
Acenaphthylene	1210	1670	72.5%
3-Nitroaniline	2980	4270	69.8%
Acenaphthene	1110	1670	66.5%
2,4-Dinitrophenol	3890	5000	77.8%
4-Nitrophenol	813	1670	48.7%
Dibenzofuran	1180	1670	70.7%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: LCS-031308
LAB CONTROL

Lab Sample ID: LCS-031308
LIMS ID: 08-4728
Matrix: Soil
Date Analyzed: 03/15/08 13:58

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02

Analyte	Lab Control	Spike Added	Recovery
2,6-Dinitrotoluene	1230	1670	73.7%
2,4-Dinitrotoluene	1310	1670	78.4%
Diethylphthalate	1230	1670	73.7%
4-Chlorophenyl-phenylether	1200	1670	71.9%
Fluorene	1180	1670	70.7%
4-Nitroaniline	1100	1670	65.9%
4,6-Dinitro-2-Methylphenol	3720	5000	74.4%
N-Nitrosodiphenylamine	1590	1670	95.2%
4-Bromophenyl-phenylether	1220	1670	73.1%
Hexachlorobenzene	1200	1670	71.9%
Pentachlorophenol	1100	1670	65.9%
Phenanthrene	1190	1670	71.3%
Carbazole	1250	1670	74.9%
Anthracene	1200	1670	71.9%
Di-n-Butylphthalate	1280	1670	76.6%
Fluoranthene	1220	1670	73.1%
Pyrene	1290	1670	77.2%
Butylbenzylphthalate	1260	1670	75.4%
3,3'-Dichlorobenzidine	2840	4270	66.5%
Benzo(a)anthracene	1170	1670	70.1%
bis(2-Ethylhexyl)phthalate	1310	1670	78.4%
Chrysene	1210	1670	72.5%
Di-n-Octyl phthalate	1220	1670	73.1%
Benzo(b)fluoranthene	1150	1670	68.9%
Benzo(k)fluoranthene	1280	1670	76.6%
Benzo(a)pyrene	1220	1670	73.1%
Indeno(1,2,3-cd)pyrene	1260	1670	75.4%
Dibenz(a,h)anthracene	1280	1670	76.6%
Benzo(g,h,i)perylene	1240	1670	74.3%
1-Methylnaphthalene	1140	1670	68.3%

Semivolatile Surrogate Recovery

d5-Nitrobenzene	66.0%
2-Fluorobiphenyl	69.2%
d14-p-Terphenyl	82.8%
d4-1,2-Dichlorobenzene	61.2%
d5-Phenol	75.5%
2-Fluorophenol	71.5%
2,4,6-Tribromophenol	78.4%
d4-2-Chlorophenol	73.1%

Results reported in µg/kg

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
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Sample ID: MB-031208
METHOD BLANK

Lab Sample ID: MB-031208
LIMS ID: 08-4731
Matrix: Soil
Data Release Authorized:
Reported: 03/19/08 *AD*

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02
Date Sampled: NA
Date Received: NA

Date Extracted: 03/12/08
Date Analyzed: 03/14/08 12:05
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.0 g
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	81.0%
Tetrachlorometaxylene	78.2%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
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Sample ID: SS-5-2
SAMPLE

Lab Sample ID: MM10C
LIMS ID: 08-4730
Matrix: Soil
Data Release Authorized: *AB*
Reported: 03/19/08

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02
Date Sampled: 03/06/08
Date Received: 03/07/08

Date Extracted: 03/12/08
Date Analyzed: 03/14/08 13:49
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: 11.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	78.2%
Tetrachlorometaxylene	72.0%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
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Sample ID: SS-6-1.5
SAMPLE

Lab Sample ID: MM10D
LIMS ID: 08-4731
Matrix: Soil
Data Release Authorized: *AB*
Reported: 03/19/08

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02
Date Sampled: 03/06/08
Date Received: 03/07/08

Date Extracted: 03/12/08
Date Analyzed: 03/14/08 14:06
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: 8.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	< 32 U
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	< 32 U
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	73.5%
Tetrachlorometaxylene	73.0%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
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Sample ID: SS-6-1.5
MATRIX SPIKE

Lab Sample ID: MM10D
LIMS ID: 08-4731
Matrix: Soil
Data Release Authorized: 
Reported: 03/19/08

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02
Date Sampled: 03/06/08
Date Received: 03/07/08

Date Extracted: 03/12/08
Date Analyzed: 03/14/08 14:23
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: 8.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	---
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	---
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	73.0%
Tetrachlorometaxylene	72.2%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
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Sample ID: SS-6-1.5
MATRIX SPIKE DUP

Lab Sample ID: MM10D
LIMS ID: 08-4731
Matrix: Soil
Data Release Authorized: *AB*
Reported: 03/19/08

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02
Date Sampled: 03/06/08
Date Received: 03/07/08

Date Extracted: 03/12/08
Date Analyzed: 03/14/08 14:40
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: 8.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	32	---
53469-21-9	Aroclor 1242	32	< 32 U
12672-29-6	Aroclor 1248	32	< 32 U
11097-69-1	Aroclor 1254	32	< 32 U
11096-82-5	Aroclor 1260	32	---
11104-28-2	Aroclor 1221	32	< 32 U
11141-16-5	Aroclor 1232	32	< 32 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	73.8%
Tetrachlorometaxylene	74.0%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: SS-6-1.5
MS/MSD

Lab Sample ID: MM10D
LIMS ID: 08-4731
Matrix: Soil
Data Release Authorized: *AB*
Reported: 03/19/08

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02
Date Sampled: 03/06/08
Date Received: 03/07/08

Date Extracted MS/MSD: 03/12/08

Sample Amount MS: 12.4 g-dry-wt
MSD: 12.4 g-dry-wt

Date Analyzed MS: 03/14/08 14:23
MSD: 03/14/08 14:40

Final Extract Volume MS: 4.0 mL
MSD: 4.0 mL

Instrument/Analyst MS: ECD5/PK
MSD: ECD5/PK

Dilution Factor MS: 1.00
MSD: 1.00

GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Silica Gel: No

Percent Moisture: 8.6%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 32.3 U	108	161	67.1%	112	161	69.6%	3.6%
Aroclor 1260	< 32.3 U	120	161	74.5%	122	161	75.8%	1.7%

Results reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LCS-031208
LAB CONTROL

Lab Sample ID: LCS-031208
LIMS ID: 08-4731
Matrix: Soil
Data Release Authorized: *AB*
Reported: 03/19/08

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02
Date Sampled: NA
Date Received: NA

Date Extracted: 03/12/08
Date Analyzed: 03/14/08 12:23
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.0 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	125	167	74.9%
Aroclor 1260	129	167	77.2%

PCB Surrogate Recovery

Decachlorobiphenyl	76.0%
Tetrachlorometaxylene	79.2%

Results reported in $\mu\text{g}/\text{kg}$ (ppb)

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Soil

QC Report No: MM10-Parametrix, Inc.
Project: Yakima
555-5753-001-02
Date Received: 03/07/08

Data Release Authorized: 
Reported: 03/19/08

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-031308 08-4728	Method Blank HC ID: ---	03/13/08	03/18/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.0 10	< 5.0 U < 10 U 93.3%
MM10A 08-4728	SS-3-2 HC ID: DRO/MOTOR OIL	03/13/08	03/18/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.3 13	12 63 87.3%
MM10B 08-4729	SS-4-1.5 HC ID: DRO/MOTOR OIL	03/13/08	03/18/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.7 12	5.8 29 97.3%
MM10C 08-4730	SS-5-2 HC ID: DRO/MOTOR OIL	03/13/08	03/18/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.6 11	19 120 98.0%
MM10D 08-4731	SS-6-1.5 HC ID: DRO/MOTOR OIL	03/13/08	03/18/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.4 11	9.4 62 85.3%
MM10E 08-4732	SS-7-1.5 HC ID: DRO/MOTOR OIL	03/13/08	03/18/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.6 11	110 540 86.9%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID

Page 1 of 1

Sample ID: SS-3-2

MS/MSD

Lab Sample ID: MM10A

LIMS ID: 08-4728

Matrix: Soil

Data Release Authorized: 

Reported: 03/19/08

QC Report No: MM10-Parametrix, Inc.

Project: Yakima

555-5753-001-02

Date Sampled: 03/05/08

Date Received: 03/07/08

Date Extracted MS/MSD: 03/13/08

Sample Amount MS: 7.94 g-dry-wt

MSD: 7.91 g-dry-wt

Date Analyzed MS: 03/18/08 10:06

Final Extract Volume MS: 1.0 mL

MSD: 03/18/08 10:21

MSD: 1.0 mL

Instrument/Analyst MS: FID3A/JGR

Dilution Factor MS: 1.00

MSD: FID3A/JGR

MSD: 1.00

Percent Moisture: 20.9%

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	12.0	167	189	82.0%	149	190	72.1%	11.4%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	87.1%	77.6%

Results reported in mg/kg

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID

Page 1 of 1

Sample ID: LCS-031308

LAB CONTROL

Lab Sample ID: LCS-031308

LIMS ID: 08-4728

Matrix: Soil

Data Release Authorized: *AB*

Reported: 03/19/08

QC Report No: MM10-Parametrix, Inc.

Project: Yakima

555-5753-001-02

Date Sampled: NA

Date Received: NA

Date Extracted: 03/13/08

Date Analyzed: 03/18/08 09:35

Instrument/Analyst: FID3A/JGR

Sample Amount: 10.0 g

Final Extract Volume: 1.0 mL

Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	140	150	93.3%

TPHD Surrogate Recovery

o-Terphenyl	100%
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Results reported in mg/kg

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080317.b/0317a085.d
Method: /chem3/fid3a.i/20080317.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/19/2008
Macro: FID:3A031708

ARI ID: MM10MBS1
Client ID:
Injection: 18-MAR-2008 09:19
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.027	-0.003	12347	8844	GAS (Tol-C12)	262853	6
C8	2.204	-0.001	2822	1656	DIESEL (C12-C24)	128344	9
C10	2.883	-0.001	2875	1806	M.OIL (C24-C38)	535008	56
C12	3.333	-0.011	1595	2617	AK-102 (C10-C25)	188506	11
C14	3.722	0.007	1162	1423			
C16	4.037	0.005	1325	735	OR.DIES (C10-C28)	296093	18
C18	4.324	0.003	784	374	OR.MOIL (C28-C40)	542146	61
C20	4.645	0.003	1219	793			
C22	4.994	0.002	972	343			
C24	5.311	0.006	1437	1099			
C25	5.440	-0.009	2778	3254			
C26	5.575	-0.008	3407	4720			
C28	5.827	0.003	5751	2172			
C32	6.299	0.005	4935	1660			
C34	6.578	-0.002	5905	1763			
Filter Peak	6.789	0.002	4030	721			
C36	6.931	-0.004	4233	2485			
C38	7.391	-0.002	4169	2768			
C40	8.006	-0.004	3325	663			

Range Times: NW Diesel (3.394 - 5.355) NW Gas (1.980 - 3.394) NW M.Oil (5.355 - 7.443)
AK102 (2.834 - 5.399) AK103 (5.399 - 6.985) Jet A (2.834 - 4.371)

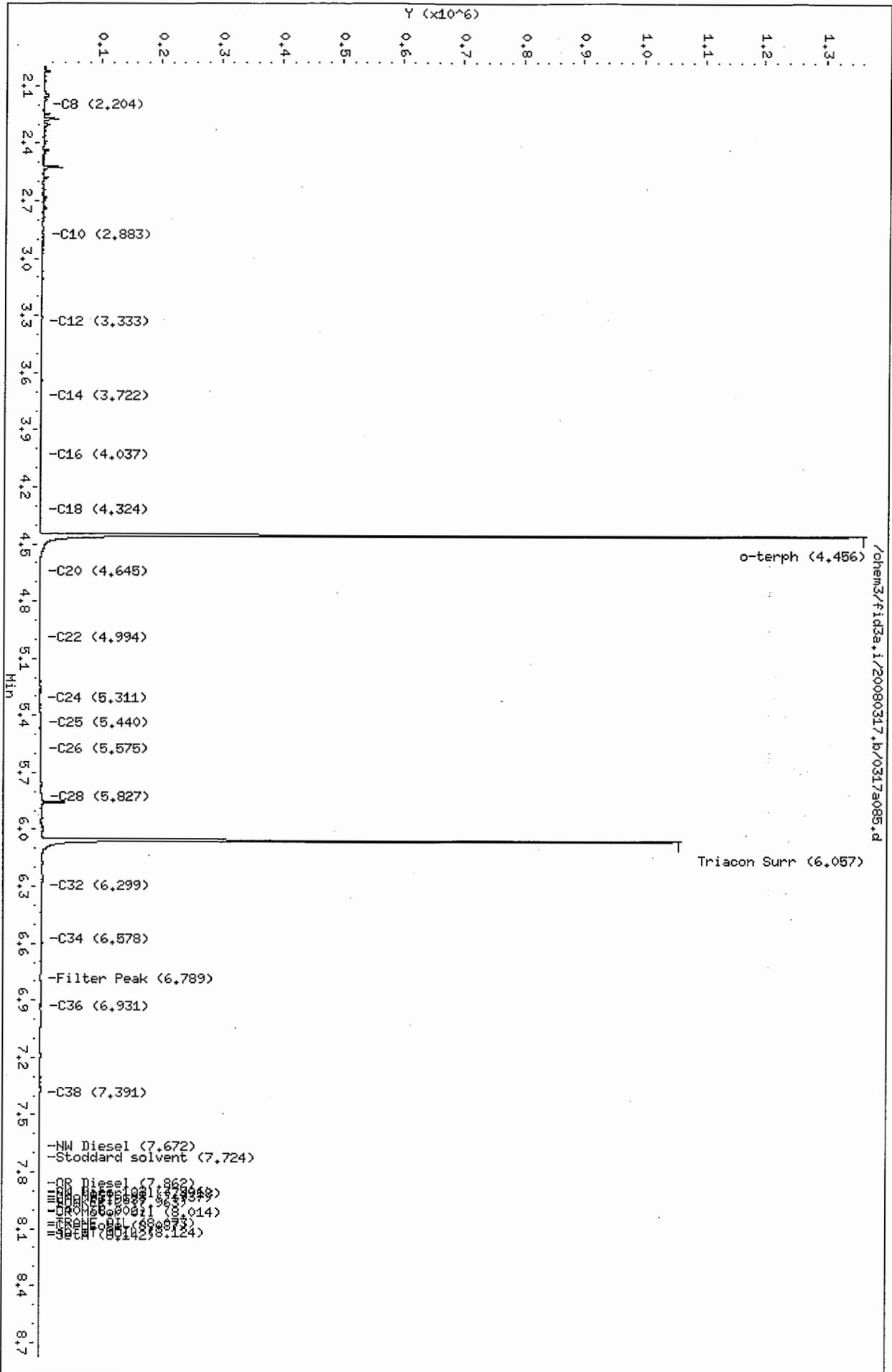
Surrogate	Area	Amount	%Rec
o-Terphenyl	763152	42.0	93.3
Triacontane	652268	45.4	100.9

JR 03/19/08

Analyte	RF	Curve Date
o-Terph Surr	18175.6	17-MAR-2008
Triacon Surr	14365.5	17-MAR-2008
Gas	40735.8	29-FEB-2008
Diesel	13982.6	17-MAR-2008
Motor Oil	9579.0	17-MAR-2008
AK102	16722.9	17-MAR-2008
OR Diesel	16151.0	
OR M.Oil	8838.0	

Data File: /chem3/fid3a.i/20080317.b/0317a085.d
 Date: 18-MAR-2008 09:19
 Client ID:
 Sample Info: HHI0HB81
 Column phase: RTX-1

Instrument: fid3a.i
 Operator: JR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080317.b/0317a086.d
Method: /chem3/fid3a.i/20080317.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/19/2008
Macro: FID:3A031708

ARI ID: MM10LCSS1
Client ID:
Injection: 18-MAR-2008 09:35
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.031	0.002	42438	22492	GAS (Tol-C12)	4332947	106
C8	2.205	0.001	29017	17265	DIESEL (C12-C24)	19580788	1400
C10	2.885	0.000	419962	170673	M.OIL (C24-C38)	784331	82
C12	3.343	-0.001	758129	290365	AK-102 (C10-C25)	23115529	1382
C14	3.720	0.005	245548	140200			
C16	4.028	-0.004	1080727	736405	OR.DIES (C10-C28)	23490464	1454
C18	4.317	-0.004	750565	467296	OR.MOIL (C28-C40)	471526	53
C20	4.648	0.006	108493	35878			
C22	4.997	0.005	55004	10877			
C24	5.298	-0.008	67883	77732			
C25	5.444	-0.005	41049	50194			
C26	5.582	-0.001	23697	30464			
C28	5.827	0.002	10009	12688			
C32	6.302	0.008	4606	3780			
C34	6.583	0.002	3992	1033			
Filter Peak	6.790	0.003	3569	711			
C36	6.940	0.005	3646	2147			
C38	7.391	-0.002	3380	2580			
C40	7.999	-0.011	2949	1985			

Range Times: NW Diesel(3.394 - 5.355) NW Gas(1.980 - 3.394) NW M.Oil(5.355 - 7.443)
AK102(2.834 - 5.399) AK103(5.399 - 6.985) Jet A(2.834 - 4.371)

Surrogate	Area	Amount	%Rec
o-Terphenyl	822256	45.2	100.5
Triacontane	653973	45.5	101.2

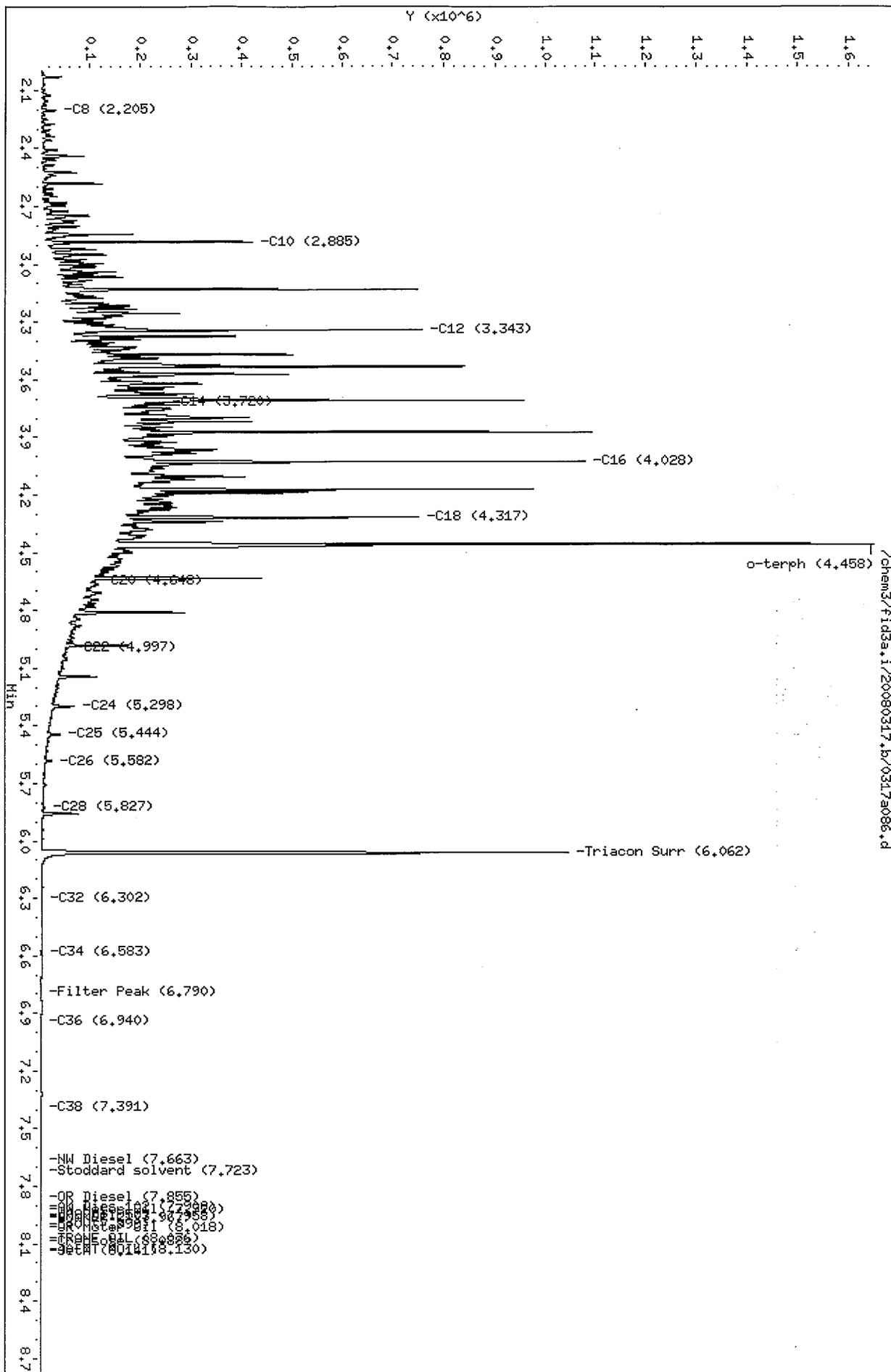
JR 03/19/08

Analyte	RF	Curve Date
o-Terph Surr	18175.6	17-MAR-2008
Triacon Surr	14365.5	17-MAR-2008
Gas	40735.8	29-FEB-2008
Diesel	13982.6	17-MAR-2008
Motor Oil	9579.0	17-MAR-2008
AK102	16722.9	17-MAR-2008
OR Diesel	16151.0	
OR M.Oil	8838.0	

Data File: /chem3/fid3a.i/20080317.b/0317a086.d
Date: 18-MAR-2008 09:35
Client ID:
Sample Info: HMI0LCSS1

Column phase: RTX-1

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080317.b/0317a087.d
Method: /chem3/fid3a.i/20080317.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/19/2008
Macro: FID:3A031708

ARI ID: MM10A
Client ID:
Injection: 18-MAR-2008 09:50
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.026	-0.003	12108	8783	GAS (Tol-C12)	377717	9
C8	2.203	-0.001	2816	1543	DIESEL (C12-C24)	1329940	95
C10	2.883	-0.001	3500	2298	M.OIL (C24-C38)	4765518	497
C12	3.338	-0.006	1722	1650	AK-102 (C10-C25)	1451033	87
C14	3.716	0.001	2534	1870			
C16	4.033	0.001	5422	5735	OR.DIES (C10-C28)	3006435	186
C18	4.316	-0.005	10069	9594	OR.MOIL (C28-C40)	3474872	393
C20	4.650	0.008	8501	2503			
C22	4.998	0.006	19143	7910			
C24	5.299	-0.006	39781	29157			
C25	5.434	-0.015	129098	149668			
C26	5.581	-0.002	60333	61271			
C28	5.829	0.005	64245	32136			
C32	6.303	0.008	47235	39202			
C34	6.584	0.003	31443	14075			
Filter Peak	6.788	0.001	22338	6969			
C36	6.935	0.000	18527	7630			
C38	7.397	0.004	12006	6430			
C40	8.009	-0.002	7335	4443			

Range Times: NW Diesel(3.394 - 5.355) NW Gas(1.980 - 3.394) NW M.Oil(5.355 - 7.443)
AK102(2.834 - 5.399) AK103(5.399 - 6.985) Jet A(2.834 - 4.371)

Surrogate	Area	Amount	%Rec
o-Terphenyl	714204	39.3	87.3
Triacontane	586259	40.8	90.7

JR 03/19/08

Analyte	RF	Curve Date
o-Terph Surr	18175.6	17-MAR-2008
Triacon Surr	14365.5	17-MAR-2008
Gas	40735.8	29-FEB-2008
Diesel	13982.6	17-MAR-2008
Motor Oil	9579.0	17-MAR-2008
AK102	16722.9	17-MAR-2008
OR Diesel	16151.0	
OR M.Oil	8838.0	

Data File: /chem3/fid3a.i/20080317.b/0317a087.d

Date: 18-MAR-2008 09:50

Client ID:

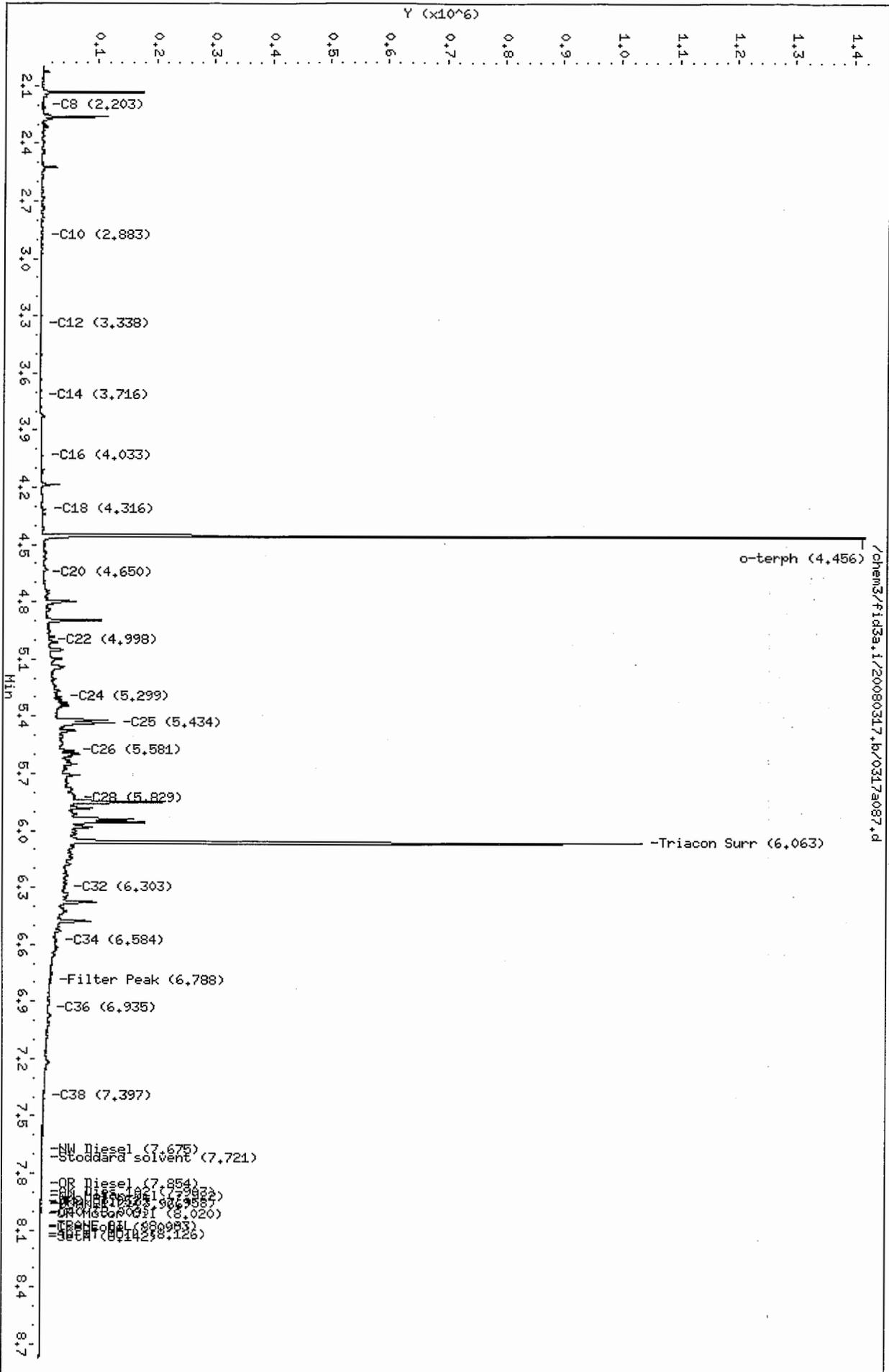
Sample Info: HHL0A

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080317.b/0317a090.d
Method: /chem3/fid3a.i/20080317.b/ftp3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/19/2008
Macro: FID:3A031708

ARI ID: MM10B
Client ID:
Injection: 18-MAR-2008 10:37
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.024	-0.005	13932	9430	GAS (Tol-C12)	372102	9
C8	2.201	-0.004	3056	2264	DIESEL (C12-C24)	717648	51
C10	2.883	-0.002	3938	2300	M.OIL (C24-C38)	2449799	256
C12	3.339	-0.005	1540	610	AK-102 (C10-C25)	804466	48
C14	3.722	0.006	1547	1047			
C16	4.036	0.004	2407	2868	OR.DIES (C10-C28)	1530097	95
C18	4.329	0.008	6148	6748	OR.MOIL (C28-C40)	1864488	211
C20	4.635	-0.007	6916	9146			
C22	4.991	-0.001	9856	1560			
C24	5.308	0.002	14296	2258			
C25	5.453	0.004	19959	2769			
C26	5.581	-0.002	21196	18015			
C28	5.828	0.003	27318	8634			
C32	6.301	0.007	23175	23586			
C34	6.575	-0.005	15825	13721			
Filter Peak	6.787	0.000	10262	1633			
C36	6.939	0.004	8273	4089			
C38	7.393	0.000	6279	1244			
C40	8.011	0.000	4239	1593			

Range Times: NW Diesel(3.394 - 5.355) NW Gas(1.980 - 3.394) NW M.Oil(5.355 - 7.443)
AK102(2.834 - 5.399) AK103(5.399 - 6.985) Jet A(2.834 - 4.371)

Surrogate	Area	Amount	%Rec
o-Terphenyl	796979	43.8	97.4
Triacontane	646406	45.0	100.0

JL 03/19/08

Analyte	RF	Curve Date
o-Terph Surr	18175.6	17-MAR-2008
Triacon Surr	14365.5	17-MAR-2008
Gas	40735.8	29-FEB-2008
Diesel	13982.6	17-MAR-2008
Motor Oil	9579.0	17-MAR-2008
AK102	16722.9	17-MAR-2008
OR Diesel	16151.0	
OR M.Oil	8838.0	

Data File: /chem3/fid3a.i/20080317.b/0317a090.d

Date: 18-MAR-2008 10:37

Client ID:

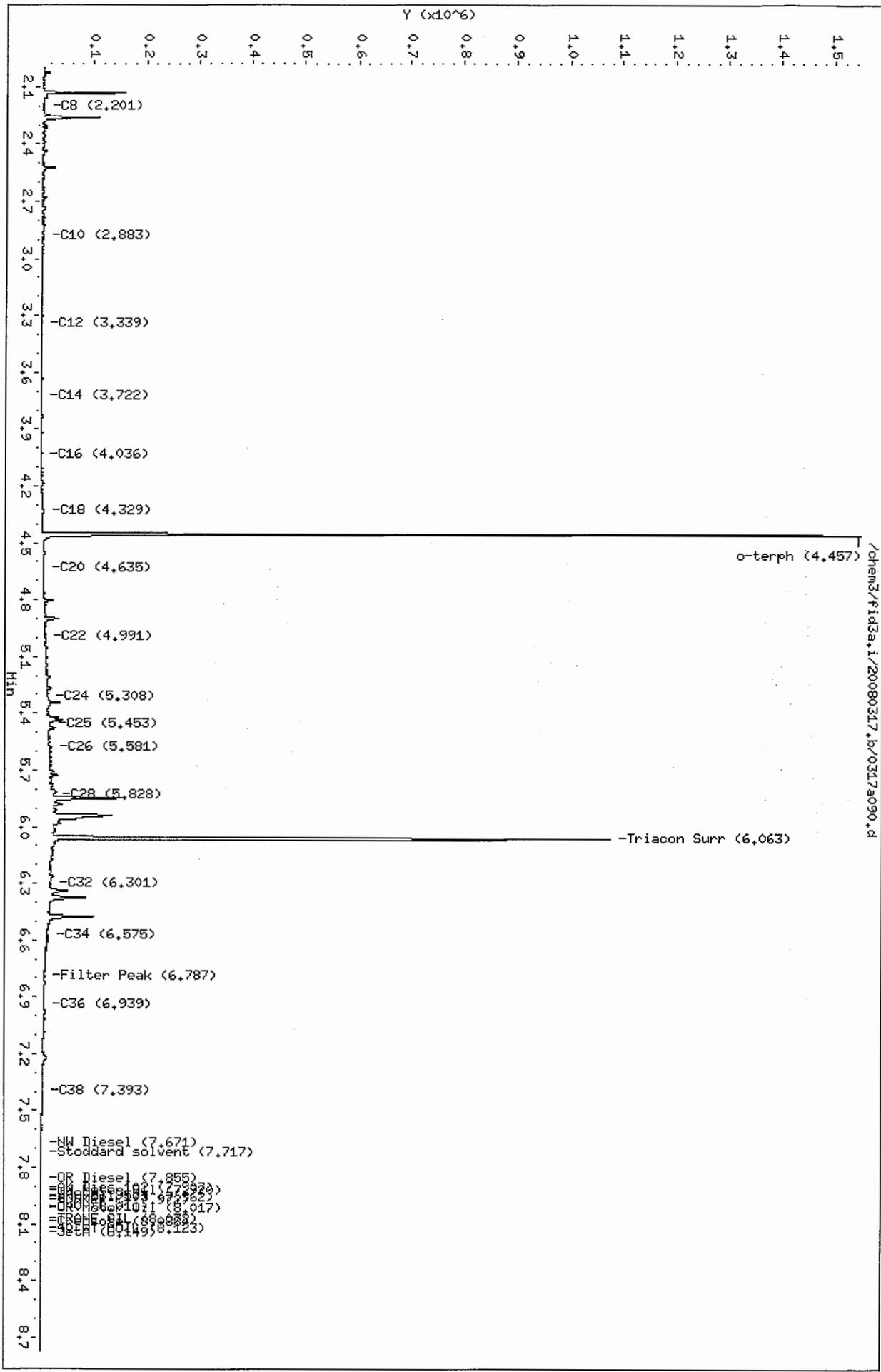
Sample Info: HHL0B

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080317.b/0317a091.d
Method: /chem3/fid3a.i/20080317.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/19/2008
Macro: FID:3A031708

ARI ID: MM10C
Client ID:
Injection: 18-MAR-2008 10:52
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.025	-0.004	23105	13213	GAS (Tol-C12)	325840	8
C8	2.202	-0.002	2770	2018	DIESEL (C12-C24)	2316151	166
C10	2.883	-0.001	4642	3118	M.OIL (C24-C38)	10054007	1050
C12	3.351	0.007	2953	3693	AK-102 (C10-C25)	2538322	152
C14	3.716	0.001	4973	4931			
C16	4.031	0.000	9894	11292	OR.DIES (C10-C28)	5061635	313
C18	4.316	-0.005	18722	20104	OR.MOIL (C28-C40)	8263902	935
C20	4.648	0.006	19505	6919			
C22	4.993	0.002	36166	10727			
C24	5.306	0.001	61675	28375			
C25	5.444	-0.005	95928	142953			
C26	5.580	-0.003	100502	103049			
C28	5.827	0.003	126930	118321			
C32	6.294	0.000	110532	21570			
C34	6.577	-0.003	95408	99444			
Filter Peak	6.789	0.002	65089	28179			
C36	6.935	0.001	53041	10503			
C38	7.387	-0.006	35575	22009			
C40	8.010	-0.001	18033	7104			

Range Times: NW Diesel(3.394 - 5.355) NW Gas(1.980 - 3.394) NW M.Oil(5.355 - 7.443)
AK102(2.834 - 5.399) AK103(5.399 - 6.985) Jet A(2.834 - 4.371)

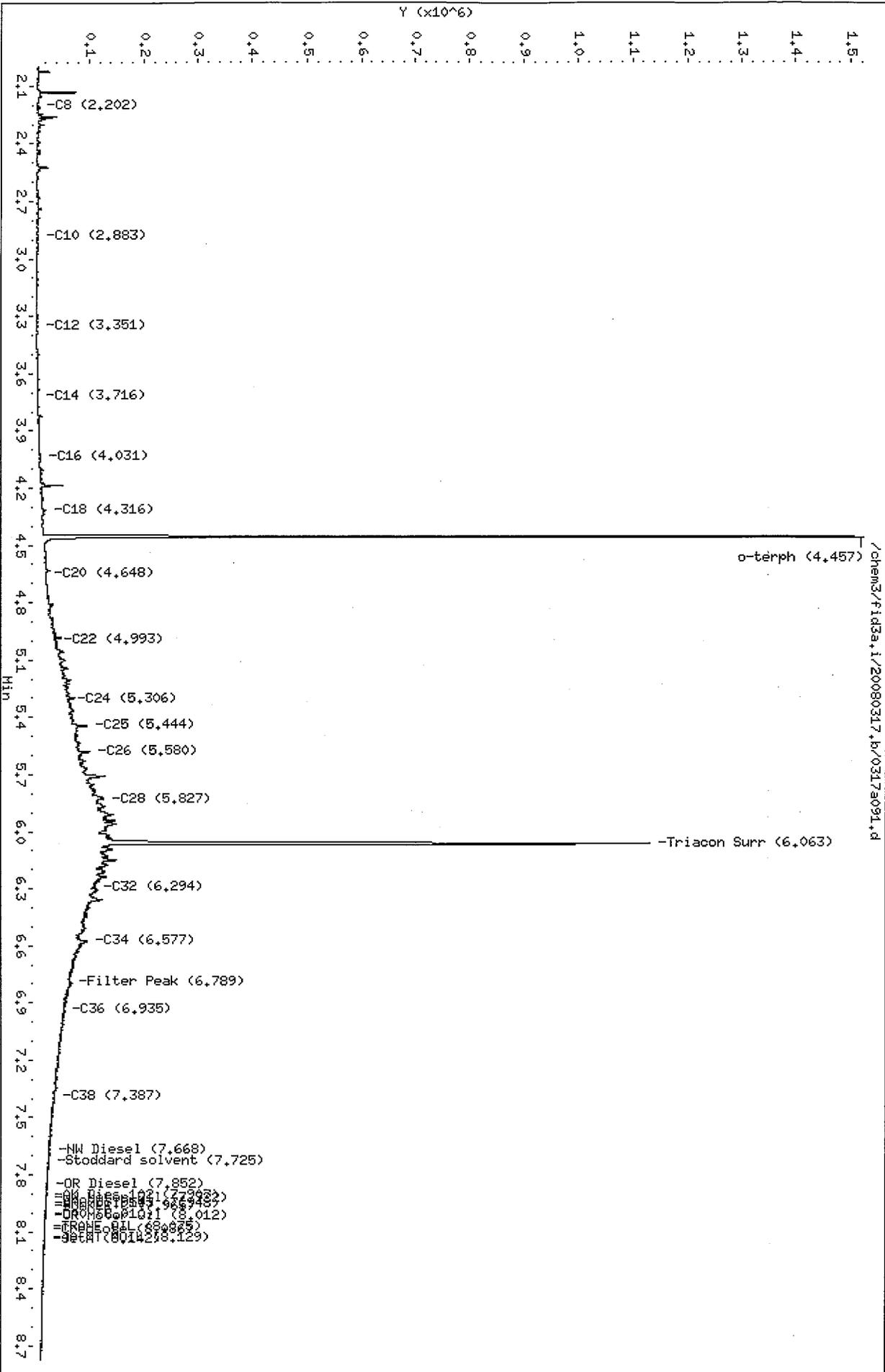
Surrogate	Area	Amount	%Rec
o-Terphenyl	801423	44.1	98.0
Triacontane	618908	43.1	95.7

je 03/19/08

Analyte	RF	Curve Date
o-Terph Surr	18175.6	17-MAR-2008
Triacon Surr	14365.5	17-MAR-2008
Gas	40735.8	29-FEB-2008
Diesel	13982.6	17-MAR-2008
Motor Oil	9579.0	17-MAR-2008
AK102	16722.9	17-MAR-2008
OR Diesel	16151.0	
OR M.Oil	8838.0	

Data File: /chem3/fid3a.i/20080317.b/0317a091.d
Date: 18-MAR-2008 10:52
Client ID:
Sample Info: HHD0C
Column phase: RTX-1

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080317.b/0317a092.d
Method: /chem3/fid3a.i/20080317.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/19/2008
Macro: FID:3A031708

ARI ID: MM10D
Client ID:
Injection: 18-MAR-2008 11:08
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.026	-0.003	13257	8942	GAS (Tol-C12)	270188	7
C8	2.203	-0.002	2561	1636	DIESEL (C12-C24)	1201099	86
C10	2.882	-0.002	3071	1704	M.OIL (C24-C38)	5440912	568
C12	3.339	-0.005	1412	1188	AK-102 (C10-C25)	1360208	81
C14	3.716	0.001	2035	2047			
C16	4.032	0.000	4583	4860	OR.DIES (C10-C28)	2891358	179
C18	4.326	0.005	6158	2562	OR.MOIL (C28-C40)	4307154	487
C20	4.634	-0.008	11398	13135			
C22	4.993	0.001	19491	3055			
C24	5.310	0.005	35029	6244			
C25	5.444	-0.005	53333	78555			
C26	5.580	-0.004	58408	54702			
C28	5.825	0.001	69605	40818			
C32	6.293	-0.001	54016	7493			
C34	6.576	-0.004	45404	32608			
Filter Peak	6.788	0.001	34733	10853			
C36	6.933	-0.002	29618	15606			
C38	7.395	0.002	19620	6915			
C40	8.009	-0.001	11245	5316			

Range Times: NW Diesel(3.394 - 5.355) NW Gas(1.980 - 3.394) NW M.Oil(5.355 - 7.443)
AK102(2.834 - 5.399) AK103(5.399 - 6.985) Jet A(2.834 - 4.371)

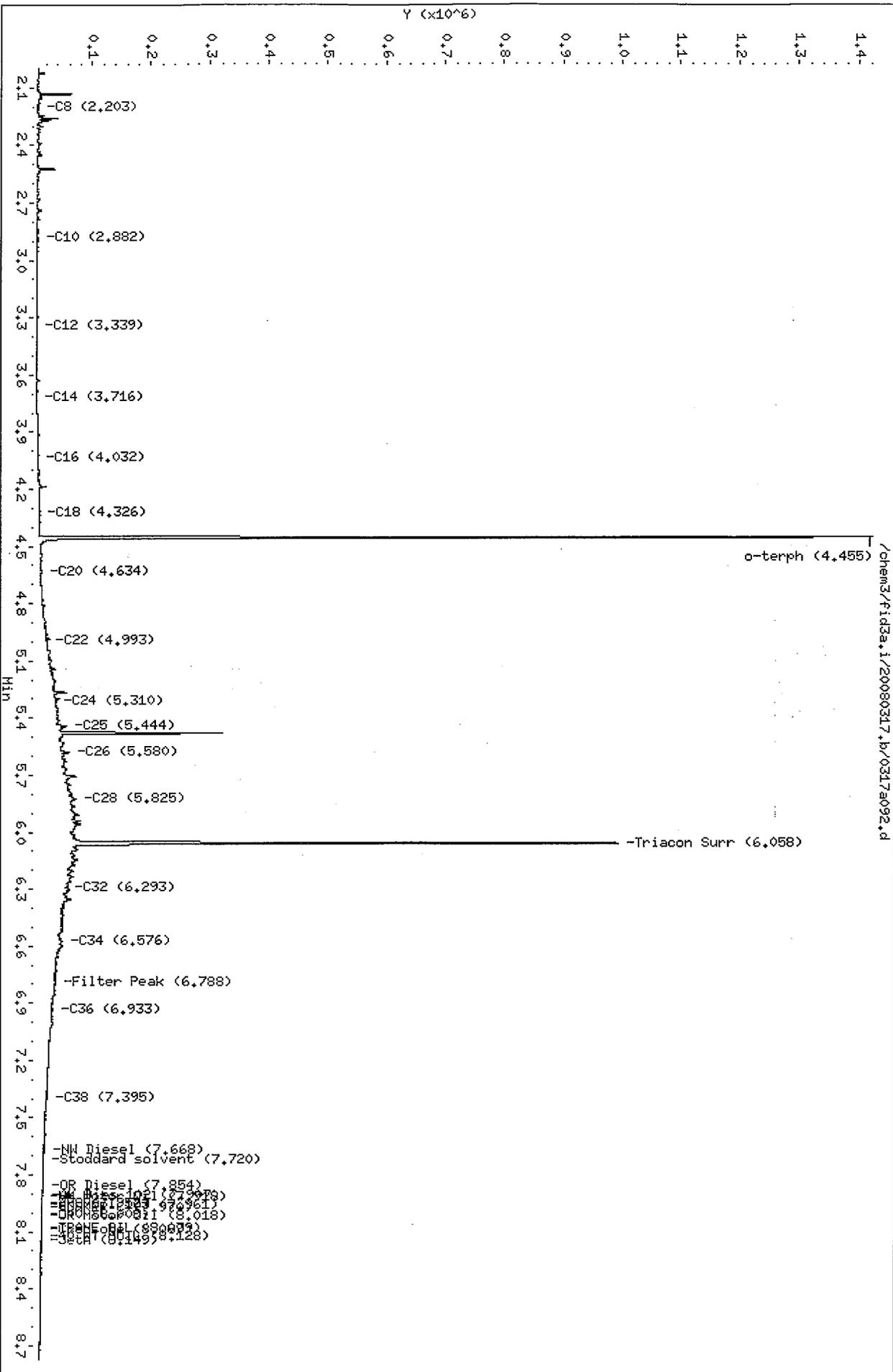
Surrogate	Area	Amount	%Rec
o-Terphenyl	696948	38.3	85.2
Triacontane	537801	37.4	83.2

JL 03/19/08

Analyte	RF	Curve Date
o-Terph Surr	18175.6	17-MAR-2008
Triacon Surr	14365.5	17-MAR-2008
Gas	40735.8	29-FEB-2008
Diesel	13982.6	17-MAR-2008
Motor Oil	9579.0	17-MAR-2008
AK102	16722.9	17-MAR-2008
OR Diesel	16151.0	
OR M.Oil	8838.0	

Data File: /chem3/fid3a.1/20080317.b/0317a092.d
Date: 18-MAR-2008 11:08
Client ID:
Sample Info: MH10D
Column phase: RTX-1

Instrument: fid3a.1
Operator: JR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080317.b/0317a093.d
Method: /chem3/fid3a.i/20080317.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/19/2008
Macro: FID:3A031708

ARI ID: MM10E
Client ID:
Injection: 18-MAR-2008 11:23
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.036	0.007	5468	3016	GAS (Tol-C12)	681056	17
C8	2.212	0.008	3593	2677	DIESEL (C12-C24)	13160781	941
C10	2.882	-0.002	8927	4711	M.OIL (C24-C38)	45572981	4758
C12	3.344	0.000	15813	8948	AK-102 (C10-C25)	14759419	883
C14	3.711	-0.005	38842	61352			
C16	4.026	-0.006	80891	55375	OR.DIES (C10-C28)	28886487	1789
C18	4.315	-0.006	111007	105320	OR.MOIL (C28-C40)	32063310	3628
C20	4.649	0.006	100533	21862			
C22	4.988	-0.004	217611	198101			
C24	5.306	0.001	355312	145168			
C25	5.451	0.002	438140	178718			
C26	5.582	-0.001	450087	98419			
C28	5.824	0.000	612317	132873			
C32	6.299	0.004	497167	177098			
C34	6.577	-0.003	318963	262619			
Filter Peak	6.788	0.001	223264	44182			
C36	6.935	0.000	174722	116030			
C38	7.398	0.004	88136	40999			
C40	8.010	-0.001	37736	11165			

Range Times: NW Diesel(3.394 - 5.355) NW Gas(1.980 - 3.394) NW M.Oil(5.355 - 7.443)
AK102(2.834 - 5.399) AK103(5.399 - 6.985) Jet A(2.834 - 4.371)

Surrogate	Area	Amount	%Rec
o-Terphenyl	711286	39.1	87.0
Triacontane	528111	36.8	81.7

JR 03/19/08

Analyte	RF	Curve Date
o-Terph Surr	18175.6	17-MAR-2008
Triacon Surr	14365.5	17-MAR-2008
Gas	40735.8	29-FEB-2008
Diesel	13982.6	17-MAR-2008
Motor Oil	9579.0	17-MAR-2008
AK102	16722.9	17-MAR-2008
OR Diesel	16151.0	
OR M.Oil	8838.0	

Data File: /chem3/fid3a.i/20080317.b/0317a093.d

Date: 18-MAR-2008 11:23

Client ID:

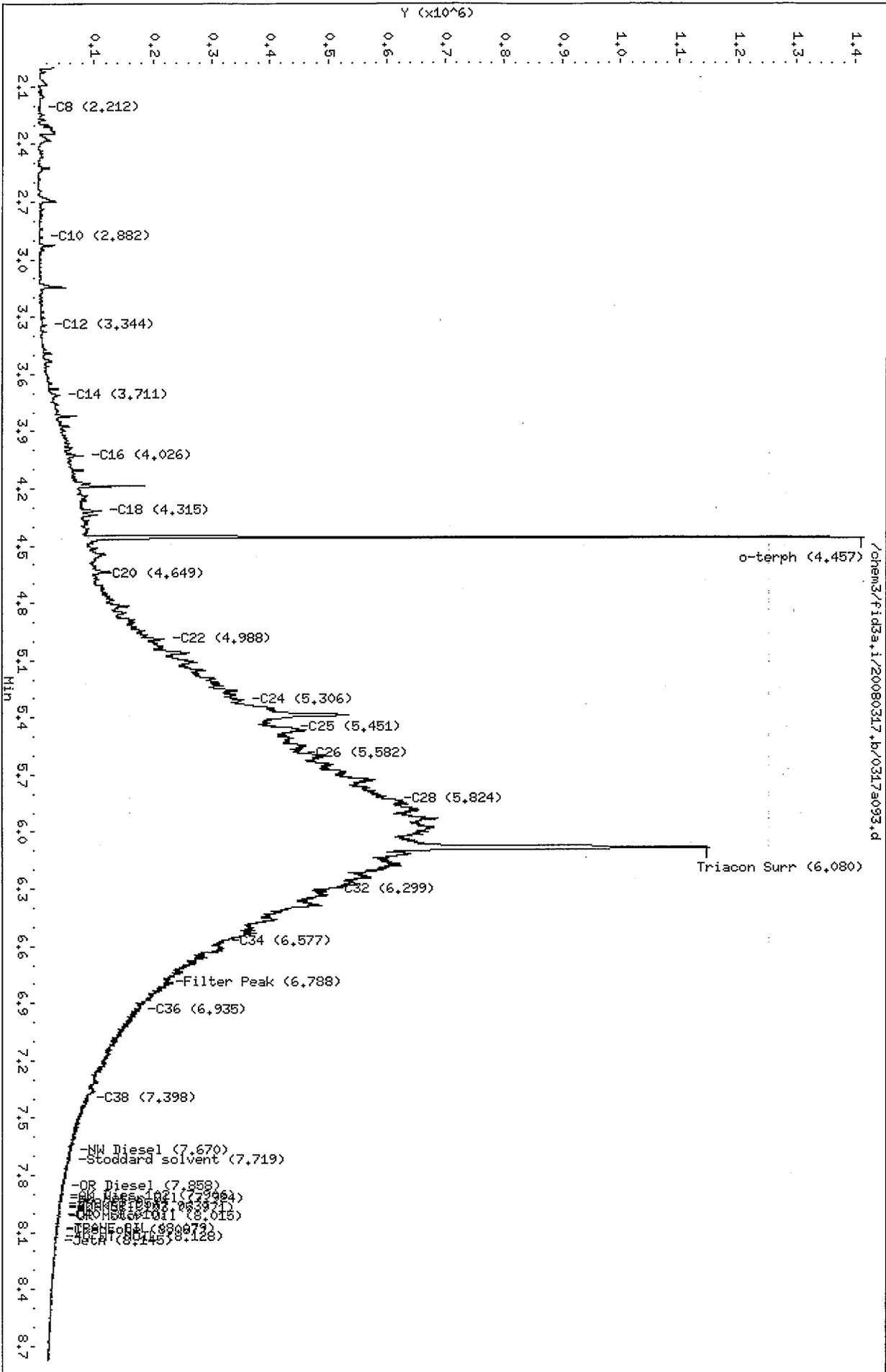
Sample Info: HHD0E

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080317.b/0317a088.d
Method: /chem3/fid3a.i/20080317.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/19/2008
Macro: FID:3A031708

ARI ID: MM10AMS
Client ID:
Injection: 18-MAR-2008 10:06
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.031	0.002	39226	20678	GAS (Tol-C12)	3934387	97
C8	2.205	0.001	25078	15188	DIESEL (C12-C24)	18575595	1328
C10	2.884	0.000	371275	147631	M.OIL (C24-C38)	5628649	588
C12	3.343	-0.001	639669	252571	AK-102 (C10-C25)	21720437	1299
C14	3.710	-0.005	838420	407807			
C16	4.028	-0.004	933149	440307	OR.DIES (C10-C28)	23648829	1464
C18	4.318	-0.003	684505	418784	OR.MOIL (C28-C40)	3950518	447
C20	4.635	-0.007	390334	351416			
C22	4.997	0.005	66964	14483			
C24	5.298	-0.007	106019	84643			
C25	5.443	-0.006	106858	92383			
C26	5.581	-0.002	86396	76544			
C28	5.821	-0.003	73108	13028			
C32	6.302	0.008	52266	37936			
C34	6.576	-0.004	37393	33690			
Filter Peak	6.785	-0.001	24450	5319			
C36	6.937	0.003	20883	8969			
C38	7.395	0.002	13111	3404			
C40	8.006	-0.004	7940	2826			

Range Times: NW Diesel(3.394 - 5.355) NW Gas(1.980 - 3.394) NW M.Oil(5.355 - 7.443)
AK102(2.834 - 5.399) AK103(5.399 - 6.985) Jet A(2.834 - 4.371)

Surrogate	Area	Amount	%Rec
o-Terphenyl	713118	39.2	87.2
Triacontane	577784	40.2	89.4

JR 03/19/08

Analyte	RF	Curve Date
o-Terph Surr	18175.6	17-MAR-2008
Triacon Surr	14365.5	17-MAR-2008
Gas	40735.8	29-FEB-2008
Diesel	13982.6	17-MAR-2008
Motor Oil	9579.0	17-MAR-2008
AK102	16722.9	17-MAR-2008
OR Diesel	16151.0	
OR M.Oil	8838.0	

Data File: /chem3/fid3a.i/20080317.b/0317a088.d

Date: 18-MAR-2008 10:06

Client ID:

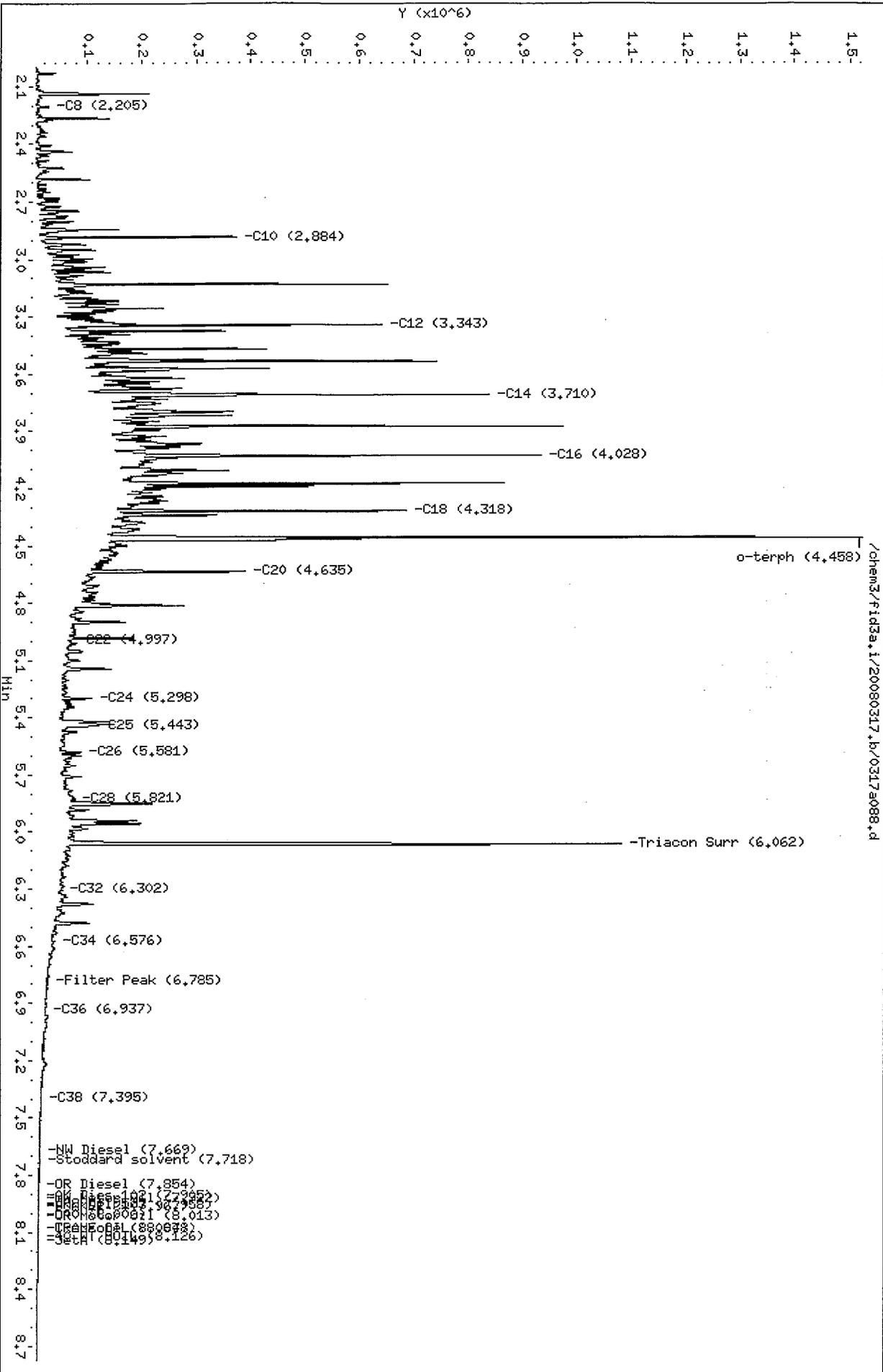
Sample Info: HHD04HS

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080317.b/0317a089.d
Method: /chem3/fid3a.i/20080317.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/19/2008
Macro: FID:3A031708

ARI ID: MM10AMSD
Client ID:
Injection: 18-MAR-2008 10:21
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.029	0.000	37881	20887	GAS (Tol-C12)	3417965	84
C8	2.204	0.000	22250	13880	DIESEL (C12-C24)	16431257	1175
C10	2.884	0.000	318361	129201	M.OIL (C24-C38)	5181232	541
C12	3.344	0.000	559883	222084	AK-102 (C10-C25)	19195900	1148
C14	3.710	-0.005	753293	360315			
C16	4.029	-0.003	830394	391204	OR.DIES (C10-C28)	20895928	1294
C18	4.318	-0.003	620021	381410	OR.MOIL (C28-C40)	3738910	423
C20	4.649	0.007	91907	45076			
C22	4.996	0.004	60925	15610			
C24	5.298	-0.007	97613	71495			
C25	5.443	-0.006	95471	81082			
C26	5.580	-0.003	75742	76325			
C28	5.823	-0.002	66120	17018			
C32	6.298	0.003	46164	5513			
C34	6.580	-0.001	35888	40211			
Filter Peak	6.785	-0.002	24247	7664			
C36	6.936	0.001	20868	11462			
C38	7.395	0.002	14087	7642			
C40	8.010	-0.001	8483	5718			

Range Times: NW Diesel(3.394 - 5.355) NW Gas(1.980 - 3.394) NW M.Oil(5.355 - 7.443)
AK102(2.834 - 5.399) AK103(5.399 - 6.985) Jet A(2.834 - 4.371)

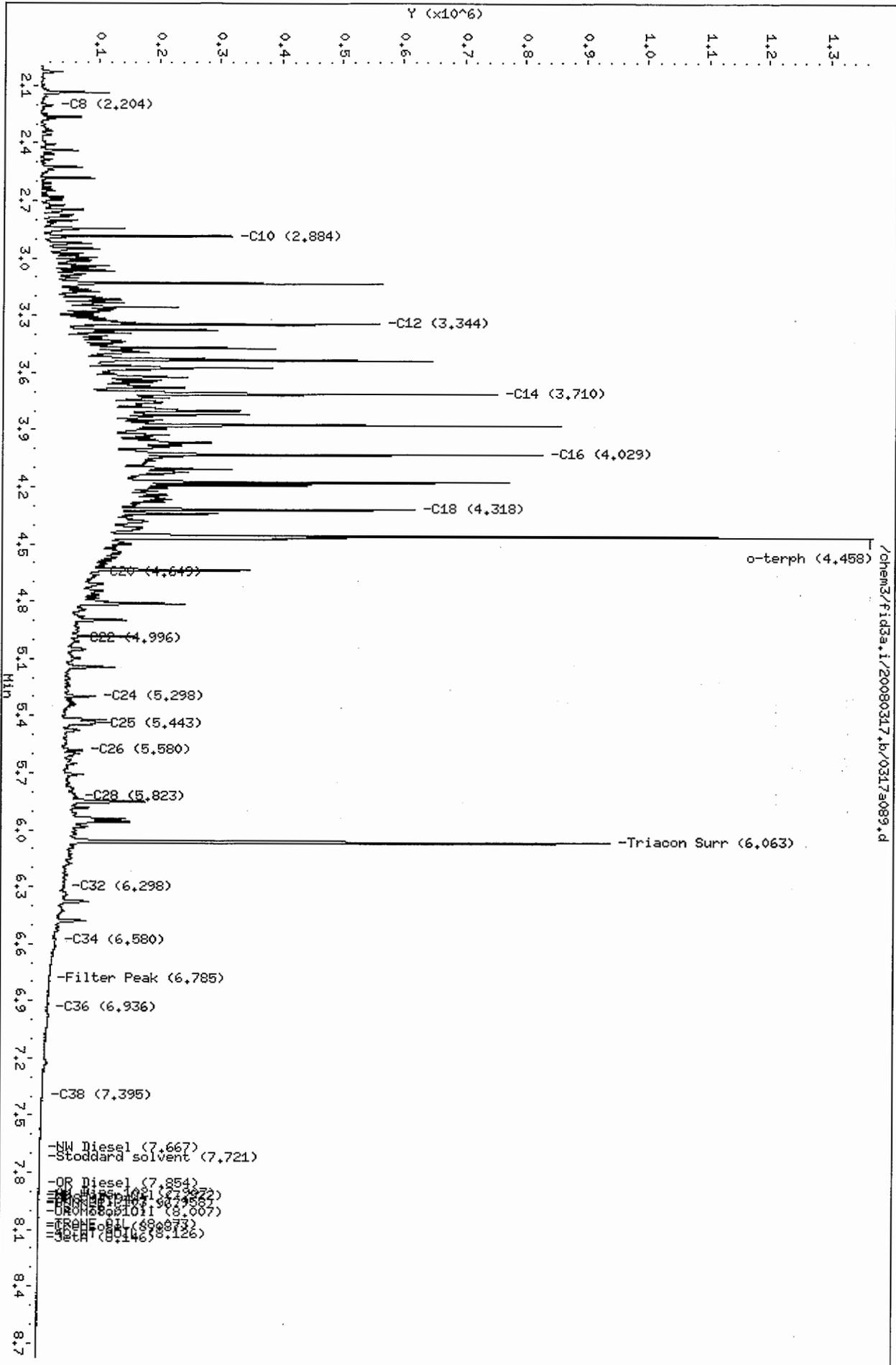
Surrogate	Area	Amount	%Rec
o-Terphenyl	634856	34.9	77.6
Triacontane	515027	35.9	79.7

JR 03/19/08

Analyte	RF	Curve Date
o-Terph Surr	18175.6	17-MAR-2008
Triacon Surr	14365.5	17-MAR-2008
Gas	40735.8	29-FEB-2008
Diesel	13982.6	17-MAR-2008
Motor Oil	9579.0	17-MAR-2008
AK102	16722.9	17-MAR-2008
OR Diesel	16151.0	
OR M.Oil	8838.0	

Data File: /chem3/fid3a.i/20080317.b/0317a089.d
 Date: 18-MAR-2008 10:21
 Client ID:
 Sample Info: MH10AHSD
 Column phase: RTX-1

Instrument: fid3a.i
 Operator: JR
 Column diameter: 0.25



SAMPLE RESULTS-CONVENTIONALS
MM10-Parametrix, Inc.



Matrix: Soil
Data Release Authorized
Reported: 03/13/08

A handwritten signature in black ink, appearing to be 'J. J.', written over the 'Data Release Authorized' text.

Project: Yakima
Event: 555-5753-001-02
Date Sampled: 03/05/08
Date Received: 03/07/08

Client ID: SS-3-2
ARI ID: 08-4728 MM10A

Analyte	Date	Method	Units	RL	Sample
pH	03/12/08 031208#1	SW9045	std units	0.01	7.60

RL Analytical reporting limit
U Undetected at reported detection limit

Results reported on a fresh weight basis
pH determined on 1:1 soil:D.I. water extracts.

SAMPLE RESULTS-CONVENTIONALS
MM10-Parametrix, Inc.



Matrix: Soil
Data Release Authorized:
Reported: 03/13/08



Project: Yakima
Event: 555-5753-001-02
Date Sampled: 03/05/08
Date Received: 03/07/08

Client ID: SS-4-1.5
ARI ID: 08-4729 MM10B

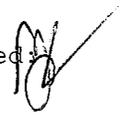
Analyte	Date	Method	Units	RL	Sample
pH	03/12/08 031208#1	SW9045	std units	0.01	9.89

RL Analytical reporting limit
U Undetected at reported detection limit

Results reported on a fresh weight basis
pH determined on 1:1 soil:D.I. water extracts.

SAMPLE RESULTS-CONVENTIONALS
MM10-Parametrix, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 03/13/08

Project: Yakima
Event: 555-5753-001-02
Date Sampled: 03/06/08
Date Received: 03/07/08

Client ID: SS-5-2
ARI ID: 08-4730 MM10C

Analyte	Date	Method	Units	RL	Sample
pH	03/12/08 031208#1	SW9045	std units	0.01	7.51

RL Analytical reporting limit
U Undetected at reported detection limit

Results reported on a fresh weight basis
pH determined on 1:1 soil:D.I. water extracts.

SAMPLE RESULTS-CONVENTIONALS
MM10-Parametrix, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 03/13/08

Project: Yakima
Event: 555-5753-001-02
Date Sampled: 03/06/08
Date Received: 03/07/08

Client ID: SS-7-1.5
ARI ID: 08-4732 MM10E

Analyte	Date	Method	Units	RL	Sample
pH	03/12/08 031208#1	SW9045	std units	0.01	8.12

RL Analytical reporting limit
U Undetected at reported detection limit

Results reported on a fresh weight basis
pH determined on 1:1 soil:D.I. water extracts.

LAB CONTROL RESULTS-CONVENTIONALS
MM10-Parametrix, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 03/13/08

Project: Yakima
Event: 555-5753-001-02
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
pH	03/12/08	std units	7.03	7.00	0.03

pH is evaluated as the Absolute Difference between the values rather than Percent Recovery.

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: MM10MB

LIMS ID: 08-4728

Matrix: Soil

Data Release Authorized: 

Reported: 03/19/08

QC Report No: MM10-Parametrix, Inc.

Project: Yakima

555-5753-001-02

Date Sampled: NA

Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/11/08	6010B	03/17/08	7440-38-2	Arsenic	5	5	U
3050B	03/11/08	6010B	03/17/08	7440-39-3	Barium	0.3	0.3	U
3050B	03/11/08	6010B	03/17/08	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/11/08	6010B	03/17/08	7440-47-3	Chromium	0.5	0.5	U
3050B	03/11/08	6010B	03/17/08	7439-92-1	Lead	2	2	U
CLP	03/11/08	7471A	03/12/08	7439-97-6	Mercury	0.05	0.05	U
3050B	03/11/08	6010B	03/17/08	7782-49-2	Selenium	5	5	U
3050B	03/11/08	6010B	03/17/08	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: SS-3-2

SAMPLE

Lab Sample ID: MM10A

LIMS ID: 08-4728

Matrix: Soil

Data Release Authorized: 

Reported: 03/19/08

QC Report No: MM10-Parametrix, Inc.

Project: Yakima

555-5753-001-02

Date Sampled: 03/05/08

Date Received: 03/07/08

Percent Total Solids: 81.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/11/08	6010B	03/18/08	7440-38-2	Arsenic	10	10	U
3050B	03/11/08	6010B	03/18/08	7440-39-3	Barium	0.9	163	
3050B	03/11/08	6010B	03/18/08	7440-43-9	Cadmium	0.6	0.6	U
3050B	03/11/08	6010B	03/18/08	7440-47-3	Chromium	1	26	
3050B	03/11/08	6010B	03/18/08	7439-92-1	Lead	6	21	
CLP	03/11/08	7471A	03/12/08	7439-97-6	Mercury	0.05	0.05	
3050B	03/11/08	6010B	03/18/08	7782-49-2	Selenium	10	10	U
3050B	03/11/08	6010B	03/18/08	7440-22-4	Silver	0.9	0.9	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

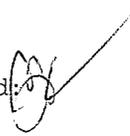
Sample ID: SS-4-1.5

SAMPLE

Lab Sample ID: MM10B

LIMS ID: 08-4729

Matrix: Soil

Data Release Authorized: 

Reported: 03/19/08

QC Report No: MM10-Parametrix, Inc.

Project: Yakima

555-5753-001-02

Date Sampled: 03/05/08

Date Received: 03/07/08

Percent Total Solids: 87.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/11/08	6010B	03/17/08	7440-38-2	Arsenic	6	6	U
3050B	03/11/08	6010B	03/17/08	7440-39-3	Barium	0.3	102	
3050B	03/11/08	6010B	03/17/08	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/11/08	6010B	03/17/08	7440-47-3	Chromium	0.6	29.8	
3050B	03/11/08	6010B	03/17/08	7439-92-1	Lead	2	5	
CLP	03/11/08	7471A	03/12/08	7439-97-6	Mercury	0.05	0.05	U
3050B	03/11/08	6010B	03/17/08	7782-49-2	Selenium	6	6	U
3050B	03/11/08	6010B	03/17/08	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

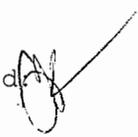
Sample ID: SS-5-2

SAMPLE

Lab Sample ID: MM10C

LIMS ID: 08-4730

Matrix: Soil

Data Release Authorized 

Reported: 03/19/08

QC Report No: MM10-Parametrix, Inc.

Project: Yakima

555-5753-001-02

Date Sampled: 03/06/08

Date Received: 03/07/08

Percent Total Solids: 88.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/11/08	6010B	03/17/08	7440-38-2	Arsenic	6	6	U
3050B	03/11/08	6010B	03/17/08	7440-39-3	Barium	0.3	87.6	
3050B	03/11/08	6010B	03/17/08	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/11/08	6010B	03/17/08	7440-47-3	Chromium	0.6	20.1	
3050B	03/11/08	6010B	03/17/08	7439-92-1	Lead	2	15	
CLP	03/11/08	7471A	03/12/08	7439-97-6	Mercury	0.05	0.06	
3050B	03/11/08	6010B	03/17/08	7782-49-2	Selenium	6	6	U
3050B	03/11/08	6010B	03/17/08	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: MM10LCS

LIMS ID: 08-4728

Matrix: Soil

Data Release Authorized 

Reported: 03/19/08

QC Report No: MM10-Parametrix, Inc.

Project: Yakima

555-5753-001-02

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	200	200	100%	
Barium	6010B	193	200	96.5%	
Cadmium	6010B	50.0	50.0	100%	
Chromium	6010B	49.0	50.0	98.0%	
Lead	6010B	192	200	96.0%	
Mercury	7471A	1.06	1.00	106%	
Selenium	6010B	196	200	98.0%	
Silver	6010B	47.0	50.0	94.0%	

Reported in mg/kg-dry

N-Control limit not met

Control Limits: 80-120%



Analytical Resources, Incorporated
Analytical Chemists and Consultants

17 March 2008

Annika Deutsch
Parametrix, Inc.
411 108th Avenue NE
Suite 1800
Bellevue, WA 98004-5571

RE: Project: Yakima
ARI Job No. MK75

Dear Annika:

Please find enclosed the original Chain of Custody (COC) records and the final results for the samples from the project referenced above. Analytical Resources, Inc. received eleven soil samples, six water samples and one trip blank on February 28, 2008. The samples were received intact and there were no discrepancies in the paperwork. The samples were analyzed for VOAs, BETX/NWTPH-G, SVOAs, PCBs, NWTPH-Dx, total metals and pH as requested. This report contains the data for the soil sample only. The data for the water samples will be mailed under separate cover.

The areas for one or more internal standards (ISs) were high following the initial SVOA analyses of samples TP-9-1.5, TP-11-14, TP-11-4, TP-12-13, TP-12D-13 and TP-13-8. These samples were diluted and re-analyzed. The areas for all ISs were within acceptable QC limits for the dilutions. The results for both analyses have been submitted.

The area for one IS was low following the initial SVOA analysis of sample TP-10-8. This sample was diluted and re-analyzed. The area for one IS was low for the re-analysis. It was concluded that the sample matrix was the cause of the low IS recoveries. The results for both analyses have been submitted.

There were no further analytical complications noted.

As always, a copy of these reports and all raw data will remain on file at ARI. If you have questions, or require further information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
206-695-6210
<markh@arilabs.com>

Enclosures

cc: File MK75

MDH/mdh

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: Standard
 Turn-around Requested: Standard
 ARI Client Company: Parametrix Phone: 425-458-6377
 Client Contact: Annika Deutsch
 Client Project Name: Yakima

Client Project #: 555-5753-001
 Samplers: Annika Deutsch/Ingram/Sal

Sample ID	Date	Time	Matrix	No. Containers
TP-8-12.5	2/21/08	855	soil	7
TP-8-2	"	930	"	9
TP-9-13	"	81055	"	9
TP-9-1.5	"	1160	"	9
TP-10-8	"	1150	"	8
TP-10-13	"	1215	"	8
TP-11-14	"	1345	"	7
TP-11-4	"	1405	"	7
TP-12-13	"	1455	"	4
TP-12D-13	"	1200	"	4

Page: 1 of 2
 Date: 2/21/08
 No. of Coolers: Ice Present?
 Cooler Temps:

Analysis Requested	Analysis Requested							Notes/Comments
	TRH-DK	TRH-GK	VOCs	SVOCs	PCBs	PCRBs	Metals	
	X	X	X	X	X	X	X	PH
	X	X	X	X	X	X	X	Lead
	X	X	X	X	X	X	X	2802 (2015 extra volume)
	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	

Received by: Annika Deutsch
 (Signature)
 Printed Name: Annika Deutsch
 Company: Parametrix
 Date & Time: 2/28/08 3:40

Relinquished by: Annika Deutsch
 (Signature)
 Printed Name: Annika Deutsch
 Company: Parametrix
 Date & Time: 2/28/08 1540



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
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 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

ARI Data Reporting Qualifiers

Effective 11/22/04

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- NR Spiked compound recovery is not reported due to chromatographic interference
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the limit
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B

Sample ID: MB-030508

Page 1 of 2

METHOD BLANK

Lab Sample ID: MB-030508

QC Report No: MK75-Parametrix, Inc.

LIMS ID: 08-3938

Project: Yakima

Matrix: Soil

555-5753-001

Data Release Authorized: 

Date Sampled: NA

Reported: 03/13/08

Date Received: NA

Instrument/Analyst: FINN1/AAR

Sample Amount: 5.00 g-dry-wt

Date Analyzed: 03/05/08 13:37

Purge Volume: 5.0 mL

Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	3.1	
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: MB-030508
METHOD BLANK

Lab Sample ID: MB-030508
LIMS ID: 08-3938
Matrix: Soil
Date Analyzed: 03/05/08 13:37

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	103%
Bromofluorobenzene	103%
d4-1,2-Dichlorobenzene	98.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B

Sample ID: MB-030608

Page 1 of 2

METHOD BLANK

Lab Sample ID: MB-030608

QC Report No: MK75-Parametrix, Inc.

LIMS ID: 08-3939

Project: Yakima

Matrix: Soil

555-5753-001

Data Release Authorized: 

Date Sampled: NA

Reported: 03/13/08

Date Received: NA

Instrument/Analyst: FINN1/AAR

Sample Amount: 5.00 g-dry-wt

Date Analyzed: 03/06/08 12:12

Purge Volume: 5.0 mL

Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
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Sample ID: MB-030608
METHOD BLANK

Lab Sample ID: MB-030608
LIMS ID: 08-3939
Matrix: Soil
Date Analyzed: 03/06/08 12:12

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.0%
d8-Toluene	97.3%
Bromofluorobenzene	90.1%
d4-1,2-Dichlorobenzene	99.3%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2

Sample ID: TP-9-13
SAMPLE

Lab Sample ID: MK75C
LIMS ID: 08-3938
Matrix: Soil
Data Release Authorized:
Reported: 03/13/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Instrument/Analyst: FINN1/AAR
Date Analyzed: 03/05/08 15:13

Sample Amount: 4.13 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 8.9%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.2	< 1.2	U
74-83-9	Bromomethane	1.2	< 1.2	U
75-01-4	Vinyl Chloride	1.2	< 1.2	U
75-00-3	Chloroethane	1.2	< 1.2	U
75-09-2	Methylene Chloride	2.4	< 2.4	U
67-64-1	Acetone	6.1	17	
75-15-0	Carbon Disulfide	1.2	< 1.2	U
75-35-4	1,1-Dichloroethene	1.2	< 1.2	U
75-34-3	1,1-Dichloroethane	1.2	< 1.2	U
156-60-5	trans-1,2-Dichloroethene	1.2	< 1.2	U
156-59-2	cis-1,2-Dichloroethene	1.2	< 1.2	U
67-66-3	Chloroform	1.2	< 1.2	U
107-06-2	1,2-Dichloroethane	1.2	< 1.2	U
78-93-3	2-Butanone	6.1	< 6.1	U
71-55-6	1,1,1-Trichloroethane	1.2	< 1.2	U
56-23-5	Carbon Tetrachloride	1.2	< 1.2	U
108-05-4	Vinyl Acetate	6.1	< 6.1	U
75-27-4	Bromodichloromethane	1.2	< 1.2	U
78-87-5	1,2-Dichloropropane	1.2	< 1.2	U
10061-01-5	cis-1,3-Dichloropropene	1.2	< 1.2	U
79-01-6	Trichloroethene	1.2	< 1.2	U
124-48-1	Dibromochloromethane	1.2	< 1.2	U
79-00-5	1,1,2-Trichloroethane	1.2	< 1.2	U
71-43-2	Benzene	1.2	< 1.2	U
10061-02-6	trans-1,3-Dichloropropene	1.2	< 1.2	U
75-25-2	Bromoform	1.2	< 1.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.1	< 6.1	U
591-78-6	2-Hexanone	6.1	< 6.1	U
127-18-4	Tetrachloroethene	1.2	< 1.2	U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	< 1.2	U
108-88-3	Toluene	1.2	< 1.2	U
108-90-7	Chlorobenzene	1.2	< 1.2	U
100-41-4	Ethylbenzene	1.2	< 1.2	U
100-42-5	Styrene	1.2	< 1.2	U
75-69-4	Trichlorofluoromethane	1.2	< 1.2	U
108-38-3	m,p-Xylene	1.2	< 1.2	U
95-47-6	o-Xylene	1.2	< 1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	< 1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	< 1.2	U
74-88-4	Methyl Iodide	1.2	< 1.2	U
107-13-1	Acrylonitrile	6.1	< 6.1	U
74-95-3	Dibromomethane	1.2	< 1.2	U
630-20-6	1,1,1,2-Tetrachloroethane	1.2	< 1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	6.1	< 6.1	U
96-18-4	1,2,3-Trichloropropane	2.4	< 2.4	U
110-57-6	trans-1,4-Dichloro-2-butene	6.1	< 6.1	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: TP-9-13
SAMPLE

Lab Sample ID: MK75C
LIMS ID: 08-3938
Matrix: Soil
Date Analyzed: 03/05/08 15:13

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	1.2	< 1.2	U
74-97-5	Bromochloromethane	1.2	< 1.2	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	122%
d8-Toluene	101%
Bromofluorobenzene	96.1%
d4-1,2-Dichlorobenzene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2

Sample ID: TP-9-1.5
SAMPLE

Lab Sample ID: MK75D
LIMS ID: 08-3939
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 03/13/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Instrument/Analyst: FINN1/AAR
Date Analyzed: 03/05/08 15:37

Sample Amount: 5.14 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 14.6%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	4.9	140	
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	4.9	13	
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	4.9	< 4.9	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	4.9	
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.9	< 4.9	U
591-78-6	2-Hexanone	4.9	< 4.9	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	2.4	
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	4.9	< 4.9	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	4.9	< 4.9	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	4.9	< 4.9	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
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Sample ID: TP-9-1.5
SAMPLE

Lab Sample ID: MK75D
LIMS ID: 08-3939
Matrix: Soil
Date Analyzed: 03/05/08 15:37

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	131%
d8-Toluene	93.1%
Bromofluorobenzene	81.1%
d4-1,2-Dichlorobenzene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2

Sample ID: TP-9-1.5
REANALYSIS

Lab Sample ID: MK75D
LIMS ID: 08-3939
Matrix: Soil
Data Release Authorized:
Reported: 03/13/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Instrument/Analyst: FINN1/AAR
Date Analyzed: 03/06/08 13:49

Sample Amount: 5.18 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 14.6%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	1.9	< 1.9	U
67-64-1	Acetone	4.8	150	
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	4.8	15	
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	4.8	< 4.8	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	4.2	
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.8	< 4.8	U
591-78-6	2-Hexanone	4.8	< 4.8	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	2.4	
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	1.8	
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	4.8	< 4.8	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	4.8	< 4.8	U
96-18-4	1,2,3-Trichloropropane	1.9	< 1.9	U
110-57-6	trans-1,4-Dichloro-2-butene	4.8	< 4.8	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
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Sample ID: TP-9-1.5
REANALYSIS

Lab Sample ID: MK75D
LIMS ID: 08-3939
Matrix: Soil
Date Analyzed: 03/06/08 13:49

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	124%
d8-Toluene	94.9%
Bromofluorobenzene	80.1%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B

Sample ID: TP-10-13

Page 1 of 2

SAMPLE

Lab Sample ID: MK75F

QC Report No: MK75-Parametrix, Inc.

LIMS ID: 08-3941

Project: Yakima

Matrix: Soil

555-5753-001

Data Release Authorized: 

Date Sampled: 02/27/08

Reported: 03/13/08

Date Received: 02/28/08

Instrument/Analyst: FINN1/AAR

Sample Amount: 4.33 g-dry-wt

Date Analyzed: 03/05/08 16:31

Purge Volume: 5.0 mL

Moisture: 7.3%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.2	< 1.2	U
74-83-9	Bromomethane	1.2	< 1.2	U
75-01-4	Vinyl Chloride	1.2	< 1.2	U
75-00-3	Chloroethane	1.2	< 1.2	U
75-09-2	Methylene Chloride	2.3	< 2.3	U
67-64-1	Acetone	5.8	210	
75-15-0	Carbon Disulfide	1.2	12	
75-35-4	1,1-Dichloroethene	1.2	< 1.2	U
75-34-3	1,1-Dichloroethane	1.2	< 1.2	U
156-60-5	trans-1,2-Dichloroethene	1.2	< 1.2	U
156-59-2	cis-1,2-Dichloroethene	1.2	< 1.2	U
67-66-3	Chloroform	1.2	< 1.2	U
107-06-2	1,2-Dichloroethane	1.2	< 1.2	U
78-93-3	2-Butanone	5.8	21	
71-55-6	1,1,1-Trichloroethane	1.2	< 1.2	U
56-23-5	Carbon Tetrachloride	1.2	< 1.2	U
108-05-4	Vinyl Acetate	5.8	< 5.8	U
75-27-4	Bromodichloromethane	1.2	< 1.2	U
78-87-5	1,2-Dichloropropane	1.2	< 1.2	U
10061-01-5	cis-1,3-Dichloropropene	1.2	< 1.2	U
79-01-6	Trichloroethene	1.2	< 1.2	U
124-48-1	Dibromochloromethane	1.2	< 1.2	U
79-00-5	1,1,2-Trichloroethane	1.2	< 1.2	U
71-43-2	Benzene	1.2	< 1.2	U
10061-02-6	trans-1,3-Dichloropropene	1.2	< 1.2	U
75-25-2	Bromoform	1.2	< 1.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.8	< 5.8	U
591-78-6	2-Hexanone	5.8	< 5.8	U
127-18-4	Tetrachloroethene	1.2	< 1.2	U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	< 1.2	U
108-88-3	Toluene	1.2	1.4	
108-90-7	Chlorobenzene	1.2	< 1.2	U
100-41-4	Ethylbenzene	1.2	3.5	
100-42-5	Styrene	1.2	< 1.2	U
75-69-4	Trichlorofluoromethane	1.2	< 1.2	U
108-38-3	m,p-Xylene	1.2	3.2	
95-47-6	o-Xylene	1.2	2.9	
95-50-1	1,2-Dichlorobenzene	1.2	< 1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	22	
74-88-4	Methyl Iodide	1.2	< 1.2	U
107-13-1	Acrylonitrile	5.8	< 5.8	U
74-95-3	Dibromomethane	1.2	< 1.2	U
630-20-6	1,1,1,2-Tetrachloroethane	1.2	< 1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	< 5.8	U
96-18-4	1,2,3-Trichloropropane	2.3	< 2.3	U
110-57-6	trans-1,4-Dichloro-2-butene	5.8	< 5.8	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: TP-10-13
SAMPLE

Lab Sample ID: MK75F
LIMS ID: 08-3941
Matrix: Soil
Date Analyzed: 03/05/08 16:31

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	1.2	< 1.2	U
74-97-5	Bromochloromethane	1.2	< 1.2	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	149%
d8-Toluene	64.1%
Bromofluorobenzene	62.3%
d4-1,2-Dichlorobenzene	93.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2

Sample ID: TP-10-13
REANALYSIS

Lab Sample ID: MK75F
LIMS ID: 08-3941
Matrix: Soil
Data Release Authorized: 
Reported: 03/13/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Instrument/Analyst: FINN1/AAR
Date Analyzed: 03/06/08 14:42

Sample Amount: 4.52 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 7.3%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.1	< 1.1	U
74-83-9	Bromomethane	1.1	< 1.1	U
75-01-4	Vinyl Chloride	1.1	< 1.1	U
75-00-3	Chloroethane	1.1	< 1.1	U
75-09-2	Methylene Chloride	2.2	< 2.2	U
67-64-1	Acetone	5.5	220	
75-15-0	Carbon Disulfide	1.1	3.4	
75-35-4	1,1-Dichloroethene	1.1	< 1.1	U
75-34-3	1,1-Dichloroethane	1.1	< 1.1	U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1	U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1	U
67-66-3	Chloroform	1.1	< 1.1	U
107-06-2	1,2-Dichloroethane	1.1	< 1.1	U
78-93-3	2-Butanone	5.5	20	
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1	U
56-23-5	Carbon Tetrachloride	1.1	< 1.1	U
108-05-4	Vinyl Acetate	5.5	< 5.5	U
75-27-4	Bromodichloromethane	1.1	< 1.1	U
78-87-5	1,2-Dichloropropane	1.1	< 1.1	U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1	U
79-01-6	Trichloroethene	1.1	< 1.1	U
124-48-1	Dibromochloromethane	1.1	< 1.1	U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1	U
71-43-2	Benzene	1.1	2.6	
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1	U
75-25-2	Bromoform	1.1	< 1.1	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.5	< 5.5	U
591-78-6	2-Hexanone	5.5	< 5.5	U
127-18-4	Tetrachloroethene	1.1	< 1.1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1	U
108-88-3	Toluene	1.1	2.9	
108-90-7	Chlorobenzene	1.1	< 1.1	U
100-41-4	Ethylbenzene	1.1	2.7	
100-42-5	Styrene	1.1	< 1.1	U
75-69-4	Trichlorofluoromethane	1.1	< 1.1	U
108-38-3	m,p-Xylene	1.1	2.7	
95-47-6	o-Xylene	1.1	2.5	
95-50-1	1,2-Dichlorobenzene	1.1	< 1.1	U
106-46-7	1,4-Dichlorobenzene	1.1	14	
74-88-4	Methyl Iodide	1.1	< 1.1	U
107-13-1	Acrylonitrile	5.5	< 5.5	U
74-95-3	Dibromomethane	1.1	< 1.1	U
630-20-6	1,1,1,2-Tetrachloroethane	1.1	< 1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	< 5.5	U
96-18-4	1,2,3-Trichloropropane	2.2	< 2.2	U
110-57-6	trans-1,4-Dichloro-2-butene	5.5	< 5.5	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
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Sample ID: TP-10-13
REANALYSIS

Lab Sample ID: MK75F
LIMS ID: 08-3941
Matrix: Soil
Date Analyzed: 03/06/08 14:42

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	1.1	< 1.1	U
74-97-5	Bromochloromethane	1.1	< 1.1	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	156%
d8-Toluene	65.9%
Bromofluorobenzene	82.9%
d4-1,2-Dichlorobenzene	85.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2

Sample ID: TP-10-8
SAMPLE

Lab Sample ID: MK75E
LIMS ID: 08-3940
Matrix: Soil
Data Release Authorized:
Reported: 03/13/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Instrument/Analyst: FINN1/AAR
Date Analyzed: 03/05/08 17:26

Sample Amount: 4.46 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 14.5%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.1	< 1.1	U
74-83-9	Bromomethane	1.1	< 1.1	U
75-01-4	Vinyl Chloride	1.1	< 1.1	U
75-00-3	Chloroethane	1.1	< 1.1	U
75-09-2	Methylene Chloride	2.2	< 2.2	U
67-64-1	Acetone	5.6	220	
75-15-0	Carbon Disulfide	1.1	3.7	
75-35-4	1,1-Dichloroethene	1.1	< 1.1	U
75-34-3	1,1-Dichloroethane	1.1	< 1.1	U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1	U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1	U
67-66-3	Chloroform	1.1	< 1.1	U
107-06-2	1,2-Dichloroethane	1.1	< 1.1	U
78-93-3	2-Butanone	5.6	22	
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1	U
56-23-5	Carbon Tetrachloride	1.1	< 1.1	U
108-05-4	Vinyl Acetate	5.6	< 5.6	U
75-27-4	Bromodichloromethane	1.1	< 1.1	U
78-87-5	1,2-Dichloropropane	1.1	< 1.1	U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1	U
79-01-6	Trichloroethene	1.1	< 1.1	U
124-48-1	Dibromochloromethane	1.1	< 1.1	U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1	U
71-43-2	Benzene	1.1	1.9	
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1	U
75-25-2	Bromoform	1.1	< 1.1	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.6	< 5.6	U
591-78-6	2-Hexanone	5.6	< 5.6	U
127-18-4	Tetrachloroethene	1.1	< 1.1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1	U
108-88-3	Toluene	1.1	4.6	
108-90-7	Chlorobenzene	1.1	< 1.1	U
100-41-4	Ethylbenzene	1.1	2.1	
100-42-5	Styrene	1.1	< 1.1	U
75-69-4	Trichlorofluoromethane	1.1	< 1.1	U
108-38-3	m,p-Xylene	1.1	7.5	
95-47-6	o-Xylene	1.1	4.6	
95-50-1	1,2-Dichlorobenzene	1.1	< 1.1	U
106-46-7	1,4-Dichlorobenzene	1.1	11	
74-88-4	Methyl Iodide	1.1	< 1.1	U
107-13-1	Acrylonitrile	5.6	< 5.6	U
74-95-3	Dibromomethane	1.1	< 1.1	U
630-20-6	1,1,1,2-Tetrachloroethane	1.1	< 1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	5.6	< 5.6	U
96-18-4	1,2,3-Trichloropropane	2.2	< 2.2	U
110-57-6	trans-1,4-Dichloro-2-butene	5.6	< 5.6	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: TP-10-8
SAMPLE

Lab Sample ID: MK75E
LIMS ID: 08-3940
Matrix: Soil
Date Analyzed: 03/05/08 17:26

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	1.1	< 1.1	U
74-97-5	Bromochloromethane	1.1	< 1.1	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	165%
d8-Toluene	67.0%
Bromofluorobenzene	65.9%
d4-1,2-Dichlorobenzene	90.5%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2

Sample ID: TP-10-8
REANALYSIS

Lab Sample ID: MK75E
LIMS ID: 08-3940
Matrix: Soil
Data Release Authorized:
Reported: 03/13/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Instrument/Analyst: FINN1/AAR
Date Analyzed: 03/05/08 16:04

Sample Amount: 62.7 mg-dry-wt
Purge Volume: 5.0 mL
Moisture: 14.5%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	80	< 80	U
74-83-9	Bromomethane	80	< 80	U
75-01-4	Vinyl Chloride	80	< 80	U
75-00-3	Chloroethane	80	< 80	U
75-09-2	Methylene Chloride	160	170	B
67-64-1	Acetone	400	< 400	U
75-15-0	Carbon Disulfide	80	< 80	U
75-35-4	1,1-Dichloroethene	80	< 80	U
75-34-3	1,1-Dichloroethane	80	< 80	U
156-60-5	trans-1,2-Dichloroethene	80	< 80	U
156-59-2	cis-1,2-Dichloroethene	80	< 80	U
67-66-3	Chloroform	80	< 80	U
107-06-2	1,2-Dichloroethane	80	< 80	U
78-93-3	2-Butanone	400	< 400	U
71-55-6	1,1,1-Trichloroethane	80	< 80	U
56-23-5	Carbon Tetrachloride	80	< 80	U
108-05-4	Vinyl Acetate	400	< 400	U
75-27-4	Bromodichloromethane	80	< 80	U
78-87-5	1,2-Dichloropropane	80	< 80	U
10061-01-5	cis-1,3-Dichloropropene	80	< 80	U
79-01-6	Trichloroethene	80	< 80	U
124-48-1	Dibromochloromethane	80	< 80	U
79-00-5	1,1,2-Trichloroethane	80	< 80	U
71-43-2	Benzene	80	< 80	U
10061-02-6	trans-1,3-Dichloropropene	80	< 80	U
75-25-2	Bromoform	80	< 80	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	400	< 400	U
591-78-6	2-Hexanone	400	< 400	U
127-18-4	Tetrachloroethene	80	< 80	U
79-34-5	1,1,2,2-Tetrachloroethane	80	< 80	U
108-88-3	Toluene	80	500	
108-90-7	Chlorobenzene	80	< 80	U
100-41-4	Ethylbenzene	80	< 80	U
100-42-5	Styrene	80	< 80	U
75-69-4	Trichlorofluoromethane	80	< 80	U
108-38-3	m,p-Xylene	80	< 80	U
95-47-6	o-Xylene	80	< 80	U
95-50-1	1,2-Dichlorobenzene	80	< 80	U
106-46-7	1,4-Dichlorobenzene	80	< 80	U
74-88-4	Methyl Iodide	80	< 80	U
107-13-1	Acrylonitrile	400	< 400	U
74-95-3	Dibromomethane	80	< 80	U
630-20-6	1,1,1,2-Tetrachloroethane	80	< 80	U
96-12-8	1,2-Dibromo-3-chloropropane	400	< 400	U
96-18-4	1,2,3-Trichloropropane	160	< 160	U
110-57-6	trans-1,4-Dichloro-2-butene	400	< 400	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
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Sample ID: TP-10-8
REANALYSIS

Lab Sample ID: MK75E
LIMS ID: 08-3940
Matrix: Soil
Date Analyzed: 03/05/08 16:04

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	80	< 80	U
74-97-5	Bromochloromethane	80	< 80	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%
d8-Toluene	98.6%
Bromofluorobenzene	95.9%
d4-1,2-Dichlorobenzene	97.4%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2

Sample ID: TP-13-8
SAMPLE

Lab Sample ID: MK75K
LIMS ID: 08-3946
Matrix: Soil
Data Release Authorized:
Reported: 03/13/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Instrument/Analyst: FINN1/AAR
Date Analyzed: 03/05/08 16:59

Sample Amount: 5.07 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 5.5%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	4.9	32	
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	4.9	< 4.9	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	4.9	< 4.9	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.9	< 4.9	U
591-78-6	2-Hexanone	4.9	< 4.9	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
108-38-3	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
107-13-1	Acrylonitrile	4.9	< 4.9	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	4.9	< 4.9	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	4.9	< 4.9	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: TP-13-8
SAMPLE

Lab Sample ID: MK75K
LIMS ID: 08-3946
Matrix: Soil
Date Analyzed: 03/05/08 16:59

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result	Q
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	120%
d8-Toluene	98.8%
Bromofluorobenzene	97.4%
d4-1,2-Dichlorobenzene	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 1 of 2

Sample ID: LCS-030508
LAB CONTROL SAMPLE

Lab Sample ID: LCS-030508
LIMS ID: 08-3938
Matrix: Soil
Data Release Authorized:
Reported: 03/13/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN1/AAR
LCSD: FINN1/AAR
Date Analyzed LCS: 03/05/08 11:22
LCSD: 03/05/08 12:03

Sample Amount LCS: 5.00 g-dry-wt
LCSD: 5.00 g-dry-wt
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL
Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	38.1	50.0	76.2%	37.9	50.0	75.8%	0.5%
Bromomethane	44.1	50.0	88.2%	42.9	50.0	85.8%	2.8%
Vinyl Chloride	44.7	50.0	89.4%	43.3	50.0	86.6%	3.2%
Chloroethane	48.7	50.0	97.4%	48.2	50.0	96.4%	1.0%
Methylene Chloride	49.5	50.0	99.0%	48.7	50.0	97.4%	1.6%
Acetone	226	250	90.4%	217	250	86.8%	4.1%
Carbon Disulfide	51.1	50.0	102%	48.7	50.0	97.4%	4.8%
1,1-Dichloroethene	48.8	50.0	97.6%	48.0	50.0	96.0%	1.7%
1,1-Dichloroethane	51.6	50.0	103%	50.5	50.0	101%	2.2%
trans-1,2-Dichloroethene	50.2	50.0	100%	48.7	50.0	97.4%	3.0%
cis-1,2-Dichloroethene	50.6	50.0	101%	47.3	50.0	94.6%	6.7%
Chloroform	51.1	50.0	102%	49.4	50.0	98.8%	3.4%
1,2-Dichloroethane	50.1	50.0	100%	48.1	50.0	96.2%	4.1%
2-Butanone	230	250	92.0%	216	250	86.4%	6.3%
1,1,1-Trichloroethane	52.0	50.0	104%	50.2	50.0	100%	3.5%
Carbon Tetrachloride	53.1	50.0	106%	51.4	50.0	103%	3.3%
Vinyl Acetate	50.9	50.0	102%	49.2	50.0	98.4%	3.4%
Bromodichloromethane	56.1	50.0	112%	54.1	50.0	108%	3.6%
1,2-Dichloropropane	51.6	50.0	103%	50.0	50.0	100%	3.1%
cis-1,3-Dichloropropene	46.2	50.0	92.4%	44.5	50.0	89.0%	3.7%
Trichloroethene	52.4	50.0	105%	50.6	50.0	101%	3.5%
Dibromochloromethane	43.8	50.0	87.6%	41.0	50.0	82.0%	6.6%
1,1,2-Trichloroethane	50.0	50.0	100%	49.2	50.0	98.4%	1.6%
Benzene	53.8	50.0	108%	52.8	50.0	106%	1.9%
trans-1,3-Dichloropropene	45.6	50.0	91.2%	43.8	50.0	87.6%	4.0%
Bromoform	41.3	50.0	82.6%	41.2	50.0	82.4%	0.2%
4-Methyl-2-Pentanone (MIBK)	215	250	86.0%	208	250	83.2%	3.3%
2-Hexanone	259	250	104%	248	250	99.2%	4.3%
Tetrachloroethene	51.9	50.0	104%	48.8	50.0	97.6%	6.2%
1,1,2,2-Tetrachloroethane	49.0	50.0	98.0%	48.1	50.0	96.2%	1.9%
Toluene	52.3	50.0	105%	51.2	50.0	102%	2.1%
Chlorobenzene	52.4	50.0	105%	49.4	50.0	98.8%	5.9%
Ethylbenzene	58.0	50.0	116%	54.9	50.0	110%	5.5%
Styrene	51.4	50.0	103%	47.6	50.0	95.2%	7.7%
Trichlorofluoromethane	45.3	50.0	90.6%	43.9	50.0	87.8%	3.1%
m,p-Xylene	114	100	114%	107	100	107%	6.3%
o-Xylene	45.8	50.0	91.6%	42.6	50.0	85.2%	7.2%
1,2-Dichlorobenzene	48.5	50.0	97.0%	47.7	50.0	95.4%	1.7%
1,4-Dichlorobenzene	52.0	50.0	104%	49.5	50.0	99.0%	4.9%
Methyl Iodide	52.7	50.0	105%	51.8	50.0	104%	1.7%
Acrylonitrile	51.3	50.0	103%	47.0	50.0	94.0%	8.7%
Dibromomethane	49.3	50.0	98.6%	47.6	50.0	95.2%	3.5%
1,1,1,2-Tetrachloroethane	43.0	50.0	86.0%	41.2	50.0	82.4%	4.3%
1,2-Dibromo-3-chloropropane	46.6	50.0	93.2%	45.1	50.0	90.2%	3.3%
1,2,3-Trichloropropane	47.2	50.0	94.4%	46.3	50.0	92.6%	1.9%
trans-1,4-Dichloro-2-butene	49.7	50.0	99.4%	48.9	50.0	97.8%	1.6%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: LCS-030508
LAB CONTROL SAMPLE

Lab Sample ID: LCS-030508
LIMS ID: 08-3938
Matrix: Soil

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Ethylene Dibromide	43.9	50.0	87.8%	42.2	50.0	84.4%	3.9%
Bromochloromethane	47.3	50.0	94.6%	47.1	50.0	94.2%	0.4%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	97.9%	96.3%
d8-Toluene	99.2%	100%
Bromofluorobenzene	103%	98.4%
d4-1,2-Dichlorobenzene	95.1%	97.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B

Sample ID: LCS-030608

Page 1 of 2

LAB CONTROL SAMPLE

Lab Sample ID: LCS-030608

QC Report No: MK75-Parametrix, Inc.

LIMS ID: 08-3939

Project: Yakima

Matrix: Soil

555-5753-001

Data Release Authorized:

Date Sampled: NA

Reported: 03/13/08

Date Received: NA

Instrument/Analyst LCS: FINN1/AAR

Sample Amount LCS: 5.00 g-dry-wt

LCSD: FINN1/AAR

LCSD: 5.00 g-dry-wt

Date Analyzed LCS: 03/06/08 11:06

Purge Volume LCS: 5.0 mL

LCSD: 03/06/08 11:50

LCSD: 5.0 mL

Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	38.9	50.0	77.8%	37.4	50.0	74.8%	3.9%
Bromomethane	46.0	50.0	92.0%	42.9	50.0	85.8%	7.0%
Vinyl Chloride	46.8	50.0	93.6%	43.6	50.0	87.2%	7.1%
Chloroethane	49.9	50.0	99.8%	48.1	50.0	96.2%	3.7%
Methylene Chloride	49.7	50.0	99.4%	47.3	50.0	94.6%	4.9%
Acetone	233	250	93.2%	221	250	88.4%	5.3%
Carbon Disulfide	50.7	50.0	101%	47.6	50.0	95.2%	6.3%
1,1-Dichloroethene	49.5	50.0	99.0%	47.9	50.0	95.8%	3.3%
1,1-Dichloroethane	51.5	50.0	103%	49.5	50.0	99.0%	4.0%
trans-1,2-Dichloroethene	49.8	50.0	99.6%	47.8	50.0	95.6%	4.1%
cis-1,2-Dichloroethene	50.1	50.0	100%	48.8	50.0	97.6%	2.6%
Chloroform	50.8	50.0	102%	48.5	50.0	97.0%	4.6%
1,2-Dichloroethane	50.5	50.0	101%	48.4	50.0	96.8%	4.2%
2-Butanone	224	250	89.6%	218	250	87.2%	2.7%
1,1,1-Trichloroethane	52.4	50.0	105%	49.3	50.0	98.6%	6.1%
Carbon Tetrachloride	54.2	50.0	108%	51.0	50.0	102%	6.1%
Vinyl Acetate	49.9	50.0	99.8%	48.8	50.0	97.6%	2.2%
Bromodichloromethane	55.6	50.0	111%	53.2	50.0	106%	4.4%
1,2-Dichloropropane	50.1	50.0	100%	48.8	50.0	97.6%	2.6%
cis-1,3-Dichloropropene	45.6	50.0	91.2%	42.5	50.0	85.0%	7.0%
Trichloroethene	53.0	50.0	106%	49.6	50.0	99.2%	6.6%
Dibromochloromethane	42.9	50.0	85.8%	41.6	50.0	83.2%	3.1%
1,1,2-Trichloroethane	50.1	50.0	100%	47.2	50.0	94.4%	6.0%
Benzene	54.4	50.0	109%	51.4	50.0	103%	5.7%
trans-1,3-Dichloropropene	44.4	50.0	88.8%	42.5	50.0	85.0%	4.4%
Bromoform	42.7	50.0	85.4%	41.7	50.0	83.4%	2.4%
4-Methyl-2-Pentanone (MIBK)	213	250	85.2%	205	250	82.0%	3.8%
2-Hexanone	260	250	104%	251	250	100%	3.5%
Tetrachloroethene	52.0	50.0	104%	49.1	50.0	98.2%	5.7%
1,1,2,2-Tetrachloroethane	50.6	50.0	101%	49.3	50.0	98.6%	2.6%
Toluene	52.3	50.0	105%	49.4	50.0	98.8%	5.7%
Chlorobenzene	51.8	50.0	104%	49.3	50.0	98.6%	4.9%
Ethylbenzene	58.6	50.0	117%	54.5	50.0	109%	7.3%
Styrene	50.5	50.0	101%	46.6	50.0	93.2%	8.0%
Trichlorofluoromethane	45.7	50.0	91.4%	43.8	50.0	87.6%	4.2%
m,p-Xylene	117	100	117%	106	100	106%	9.9%
o-Xylene	46.0	50.0	92.0%	42.4	50.0	84.8%	8.1%
1,2-Dichlorobenzene	51.1	50.0	102%	48.5	50.0	97.0%	5.2%
1,4-Dichlorobenzene	54.2	50.0	108%	49.6	50.0	99.2%	8.9%
Methyl Iodide	53.9	50.0	108%	51.5	50.0	103%	4.6%
Acrylonitrile	50.4	50.0	101%	48.1	50.0	96.2%	4.7%
Dibromomethane	49.5	50.0	99.0%	46.8	50.0	93.6%	5.6%
1,1,1,2-Tetrachloroethane	43.3	50.0	86.6%	41.1	50.0	82.2%	5.2%
1,2-Dibromo-3-chloropropane	46.8	50.0	93.6%	46.2	50.0	92.4%	1.3%
1,2,3-Trichloropropane	47.7	50.0	95.4%	47.0	50.0	94.0%	1.5%
trans-1,4-Dichloro-2-butene	51.9	50.0	104%	49.8	50.0	99.6%	4.1%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260B
Page 2 of 2

Sample ID: LCS-030608
LAB CONTROL SAMPLE

Lab Sample ID: LCS-030608
LIMS ID: 08-3939
Matrix: Soil

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Ethylene Dibromide	42.7	50.0	85.4%	41.8	50.0	83.6%	2.1%
Bromochloromethane	46.7	50.0	93.4%	46.6	50.0	93.2%	0.2%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	99.6%	97.4%
d8-Toluene	99.4%	99.6%
Bromofluorobenzene	101%	101%
d4-1,2-Dichlorobenzene	97.8%	97.5%

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MB-030308
 METHOD BLANK

Lab Sample ID: MB-030308
 LIMS ID: 08-3936
 Matrix: Soil
 Data Release Authorized:
 Reported: 03/05/08

QC Report No: MK75-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001
 Date Sampled: NA
 Date Received: NA

Date Analyzed: 03/03/08 13:04
 Instrument/Analyst: PID3/AAR

Purge Volume: 5.0 mL
 Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	12	< 12 U	
108-88-3	Toluene	12	< 12 U	
100-41-4	Ethylbenzene	12	< 12 U	
	m,p-Xylene	25	< 25 U	
95-47-6	o-Xylene	12	< 12 U	
	Gasoline Range Hydrocarbons	5.0	< 5.0 U	---
BETX Surrogate Recovery				
	Trifluorotoluene	95.3%		
	Bromobenzene	99.1%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	96.6%		
	Bromobenzene	101%		

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: TP-8-12.5
 SAMPLE

Lab Sample ID: MK75A
 LIMS ID: 08-3936
 Matrix: Soil
 Data Release Authorized: 
 Reported: 03/05/08

QC Report No: MK75-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001
 Date Sampled: 02/27/08
 Date Received: 02/28/08

Date Analyzed: 03/03/08 14:59
 Instrument/Analyst: PID3/AAR

Purge Volume: 5.0 mL
 Sample Amount: 57 mg-dry-wt
 Percent Moisture: 28.0%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	22	27	
108-88-3	Toluene	22	< 22 U	
100-41-4	Ethylbenzene	22	< 22 U	
	m,p-Xylene	44	< 44 U	
95-47-6	o-Xylene	22	< 22 U	
	Gasoline Range Hydrocarbons	8.7	< 8.7 U	GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	91.5%
Bromobenzene	94.7%

Gasoline Surrogate Recovery

Trifluorotoluene	92.0%
Bromobenzene	96.1%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: TP-8-2

SAMPLE

Lab Sample ID: MK75B

LIMS ID: 08-3937

Matrix: Soil

Data Release Authorized:

Reported: 03/05/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Date Analyzed: 03/03/08 15:23

Instrument/Analyst: PID3/AAR

Purge Volume: 5.0 mL

Sample Amount: 40 mg-dry-wt

Percent Moisture: 31.5%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	32	< 32 U	
108-88-3	Toluene	32	190	
100-41-4	Ethylbenzene	32	< 32 U	
	m,p-Xylene	63	< 63 U	
95-47-6	o-Xylene	32	< 32 U	
	Gasoline Range Hydrocarbons	13	17	GAS ID GRO

BETX Surrogate Recovery

Trifluorotoluene	95.7%
Bromobenzene	97.6%

Gasoline Surrogate Recovery

Trifluorotoluene	96.1%
Bromobenzene	99.2%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: TP-8-2

MATRIX SPIKE

Lab Sample ID: MK75B

LIMS ID: 08-3937

Matrix: Soil

Data Release Authorized: 

Reported: 03/05/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Date Analyzed MS: 03/03/08 20:45

MSD: 03/03/08 22:24

Instrument/Analyst MS: PID3/AAR

MSD: PID3/AAR

Purge Volume: 5.0 mL

Sample Amount MS: 40 mg-dry-wt

MSD: 40 mg-dry-wt

Analyte	Sample	Spike		MS		Spike		MSD	
		MS	Added-MS	Recovery	MSD	Added-MSD	Recovery	RPD	
Gasoline Range Hydrocarbons	16.7	159	127	112%	145	127	101%	9.2%	

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	MS	MSD
Trifluorotoluene	98.4%	93.8%
Bromobenzene	107%	103%

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

Page 1 of 1

Sample ID: TP-8-2

MATRIX SPIKE

Lab Sample ID: MK75B

LIMS ID: 08-3937

Matrix: Soil

Data Release Authorized: 

Reported: 03/05/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Date Analyzed MS: 03/03/08 20:45

Purge Volume: 5.0 mL

MSD: 03/03/08 22:24

Instrument/Analyst MS: PID3/AAR

Sample Amount MS: 40 mg-dry-wt

MSD: PID3/AAR

MSD: 40 mg-dry-wt

Analyte	Sample	Spike		MS		Spike		MSD	
		MS	Added-MS	Recovery	MSD	Added-MSD	Recovery	RPD	
Benzene	< 31.7 U	888	882	101%	802	882	90.9%	10.2%	
Toluene	191	7970	7850	99.1%	7200	7850	89.3%	10.2%	
Ethylbenzene	< 31.7 U	1480	1510	98.0%	1330	1510	88.1%	10.7%	
m,p-Xylene	< 63.3 U	5510	5650	97.5%	4950	5650	87.6%	10.7%	
o-Xylene	< 31.7 U	2030	2000	102%	1830	2000	91.5%	10.4%	

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	MS	MSD
Trifluorotoluene	97.3%	91.8%
Bromobenzene	105%	100%

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: TP-9-13

SAMPLE

Lab Sample ID: MK75C

LIMS ID: 08-3938

Matrix: Soil

Data Release Authorized:

Reported: 03/05/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Date Analyzed: 03/03/08 15:48

Instrument/Analyst: PID3/AAR

Purge Volume: 5.0 mL

Sample Amount: 82 mg-dry-wt

Percent Moisture: 7.4%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	15	< 15 U	
108-88-3	Toluene	15	< 15 U	
100-41-4	Ethylbenzene	15	< 15 U	
	m,p-Xylene	30	< 30 U	
95-47-6	o-Xylene	15	< 15 U	
	Gasoline Range Hydrocarbons	6.1	< 6.1 U	---

BETX Surrogate Recovery

Trifluorotoluene	95.4%
Bromobenzene	99.3%

Gasoline Surrogate Recovery

Trifluorotoluene	95.9%
Bromobenzene	101%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: TP-9-1.5

SAMPLE

Lab Sample ID: MK75D

LIMS ID: 08-3939

Matrix: Soil

Data Release Authorized: 

Reported: 03/05/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Date Analyzed: 03/03/08 17:27

Instrument/Analyst: PID3/AAR

Purge Volume: 5.0 mL

Sample Amount: 93 mg-dry-wt

Percent Moisture: 12.7%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	14	< 14 U	
108-88-3	Toluene	14	< 14 U	
100-41-4	Ethylbenzene	14	< 14 U	
	m,p-Xylene	27	< 27 U	
95-47-6	o-Xylene	14	< 14 U	
	Gasoline Range Hydrocarbons	5.4	< 5.4 U	---

BETX Surrogate Recovery

Trifluorotoluene	89.4%
Bromobenzene	93.8%

Gasoline Surrogate Recovery

Trifluorotoluene	91.1%
Bromobenzene	96.8%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: TP-10-8

SAMPLE

Lab Sample ID: MK75E

LIMS ID: 08-3940

Matrix: Soil

Data Release Authorized: 

Reported: 03/05/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Date Analyzed: 03/03/08 17:52

Instrument/Analyst: PID3/AAR

Purge Volume: 5.0 mL

Sample Amount: 49 mg-dry-wt

Percent Moisture: 27.3%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	26	< 26 U	
108-88-3	Toluene	26	430	
100-41-4	Ethylbenzene	26	< 26 U	
	m,p-Xylene	51	< 51 U	
95-47-6	o-Xylene	26	< 26 U	
	Gasoline Range Hydrocarbons	10	16	GAS ID GRO

BETX Surrogate Recovery

Trifluorotoluene	85.5%
Bromobenzene	90.1%

Gasoline Surrogate Recovery

Trifluorotoluene	87.8%
Bromobenzene	93.1%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: TP-10-13

SAMPLE

Lab Sample ID: MK75F

LIMS ID: 08-3941

Matrix: Soil

Data Release Authorized: *[Signature]*

Reported: 03/05/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Date Analyzed: 03/03/08 18:17

Instrument/Analyst: PID3/AAR

Purge Volume: 5.0 mL

Sample Amount: 84 mg-dry-wt

Percent Moisture: 14.6%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	15	< 15 U	
108-88-3	Toluene	15	66	
100-41-4	Ethylbenzene	15	< 15 U	
	m,p-Xylene	30	< 30 U	
95-47-6	o-Xylene	15	< 15 U	
	Gasoline Range Hydrocarbons	6.0	16	GRO

BETX Surrogate Recovery

Trifluorotoluene	85.2%
Bromobenzene	90.7%

Gasoline Surrogate Recovery

Trifluorotoluene	87.7%
Bromobenzene	94.6%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: TP-11-14

SAMPLE

Lab Sample ID: MK75G

LIMS ID: 08-3942

Matrix: Soil

Data Release Authorized:

Reported: 03/05/08 

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Date Analyzed: 03/03/08 18:41

Instrument/Analyst: PID3/AAR

Purge Volume: 5.0 mL

Sample Amount: 42 mg-dry-wt

Percent Moisture: 38.2%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	29	< 29 U	
108-88-3	Toluene	29	29	
100-41-4	Ethylbenzene	29	< 29 U	
	m,p-Xylene	59	< 59 U	
95-47-6	o-Xylene	29	< 29 U	
	Gasoline Range Hydrocarbons	12	< 12 U	---

BETX Surrogate Recovery

Trifluorotoluene	94.0%
Bromobenzene	98.5%

Gasoline Surrogate Recovery

Trifluorotoluene	97.5%
Bromobenzene	102%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: TP-11-4

SAMPLE

Lab Sample ID: MK75H

LIMS ID: 08-3943

Matrix: Soil

Data Release Authorized: 

Reported: 03/05/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Date Analyzed: 03/03/08 19:06

Instrument/Analyst: PID3/AAR

Purge Volume: 5.0 mL

Sample Amount: 53 mg-dry-wt

Percent Moisture: 27.5%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	24	29	
108-88-3	Toluene	24	230	
100-41-4	Ethylbenzene	24	< 24 U	
	m,p-Xylene	47	< 47 U	
95-47-6	o-Xylene	24	< 24 U	
	Gasoline Range Hydrocarbons	9.4	< 9.4 U	---

BETX Surrogate Recovery

Trifluorotoluene	94.5%
Bromobenzene	98.8%

Gasoline Surrogate Recovery

Trifluorotoluene	97.6%
Bromobenzene	102%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: TP-12-13

SAMPLE

Lab Sample ID: MK75I

LIMS ID: 08-3944

Matrix: Soil

Data Release Authorized:

Reported: 03/05/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Date Analyzed: 03/03/08 19:31

Instrument/Analyst: PID3/AAR

Purge Volume: 5.0 mL

Sample Amount: 54 mg-dry-wt

Percent Moisture: 23.4%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	23	< 23 U
108-88-3	Toluene	23	64
100-41-4	Ethylbenzene	23	< 23 U
	m,p-Xylene	47	< 47 U
95-47-6	o-Xylene	23	< 23 U

Gasoline Range Hydrocarbons	9.4	260	GAS ID GRO
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BETX Surrogate Recovery

Trifluorotoluene	93.1%
Bromobenzene	99.7%

Gasoline Surrogate Recovery

Trifluorotoluene	96.8%
Bromobenzene	109%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: TP-12D-13
 SAMPLE

Lab Sample ID: MK75J
 LIMS ID: 08-3945
 Matrix: Soil
 Data Release Authorized:
 Reported: 03/05/08

QC Report No: MK75-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001
 Date Sampled: 02/27/08
 Date Received: 02/28/08

Date Analyzed: 03/03/08 19:56
 Instrument/Analyst: PID3/AAR

Purge Volume: 5.0 mL
 Sample Amount: 58 mg-dry-wt
 Percent Moisture: 28.8%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	21	< 21 U	
108-88-3	Toluene	21	< 21 U	
100-41-4	Ethylbenzene	21	67	
	m,p-Xylene	43	< 43 U	
95-47-6	o-Xylene	21	60	
Gasoline Range Hydrocarbons			8.6	320
				GAS ID GRO
BETX Surrogate Recovery				
	Trifluorotoluene	90.8%		
	Bromobenzene	100%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	92.5%		
	Bromobenzene	115%		

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: TP-13-8
 SAMPLE

Lab Sample ID: MK75K
 LIMS ID: 08-3946
 Matrix: Soil
 Data Release Authorized: 
 Reported: 03/05/08

QC Report No: MK75-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001
 Date Sampled: 02/27/08
 Date Received: 02/28/08

Date Analyzed: 03/03/08 20:20
 Instrument/Analyst: PID3/AAR

Purge Volume: 5.0 mL
 Sample Amount: 91 mg-dry-wt
 Percent Moisture: 7.2%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	14	< 14 U	
108-88-3	Toluene	14	< 14 U	
100-41-4	Ethylbenzene	14	< 14 U	
	m,p-Xylene	28	< 28 U	
95-47-6	o-Xylene	14	< 14 U	
	Gasoline Range Hydrocarbons	5.5	17	GAS ID GRO

BETX Surrogate Recovery

Trifluorotoluene	85.7%
Bromobenzene	92.9%

Gasoline Surrogate Recovery

Trifluorotoluene	87.7%
Bromobenzene	95.3%

BETX values reported in $\mu\text{g}/\text{kg}$ (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: LCS-030308

LAB CONTROL SAMPLE

Lab Sample ID: LCS-030308

LIMS ID: 08-3936

Matrix: Soil

Data Release Authorized:

Reported: 03/05/08 *AB*

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

Event: 555-5753-001

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 03/03/08 12:15

LCSD: 03/03/08 12:39

Instrument/Analyst LCS: PID3/AAR

LCSD: PID3/AAR

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt

LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	53.0	50.0	106%	48.6	50.0	97.2%	8.7%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	98.6%	95.4%
Bromobenzene	104%	100%

ORGANICS ANALYSIS DATA SHEET
 BETX by Method SW8021BMod
 Page 1 of 1

Sample ID: LCS-030308
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-030308
 LIMS ID: 08-3936
 Matrix: Soil
 Data Release Authorized:
 Reported: 03/05/08

QC Report No: MK75-Parametrix, Inc.
 Project: Yakima
 Event: 555-5753-001
 Date Sampled: NA
 Date Received: NA

Date Analyzed LCS: 03/03/08 12:15
 LCSD: 03/03/08 12:39
 Instrument/Analyst LCS: PID3/AAR
 LCSD: PID3/AAR

Purge Volume: 5.0 mL
 Sample Amount LCS: 100 mg-dry-wt
 LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	333	348	95.7%	310	348	89.1%	7.2%
Toluene	2910	3100	93.9%	2690	3100	86.8%	7.9%
Ethylbenzene	545	595	91.6%	508	595	85.4%	7.0%
m,p-Xylene	2050	2230	91.9%	1910	2230	85.7%	7.1%
o-Xylene	738	790	93.4%	682	790	86.3%	7.9%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	98.4%	95.3%
Bromobenzene	101%	98.7%

RL
3/4/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a007.d ARI ID: MB030308S1
Data file 2: /chem3/pid3.i/20080303-1.b/0303a007.d Client ID:
Method: /chem3/pid3.i/20080303-1.b/PIDB.m Injection Date: 03-MAR-2008 13:04
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.933	-0.015	6780	88714	96.6	TFT(Surr)
13.629	-0.009	3408	38968	100.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	5280	0.006
8015B (2MP-TMB)	1	0.000
AKGas (nC6-nC10)	1	0.000
NWGas (Tol-Nap)	8598	0.010

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.932	-0.002	26615	95.3	TFT(Surr)
13.627	0.001	47138	99.1	BB(Surr)

AROMATICICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

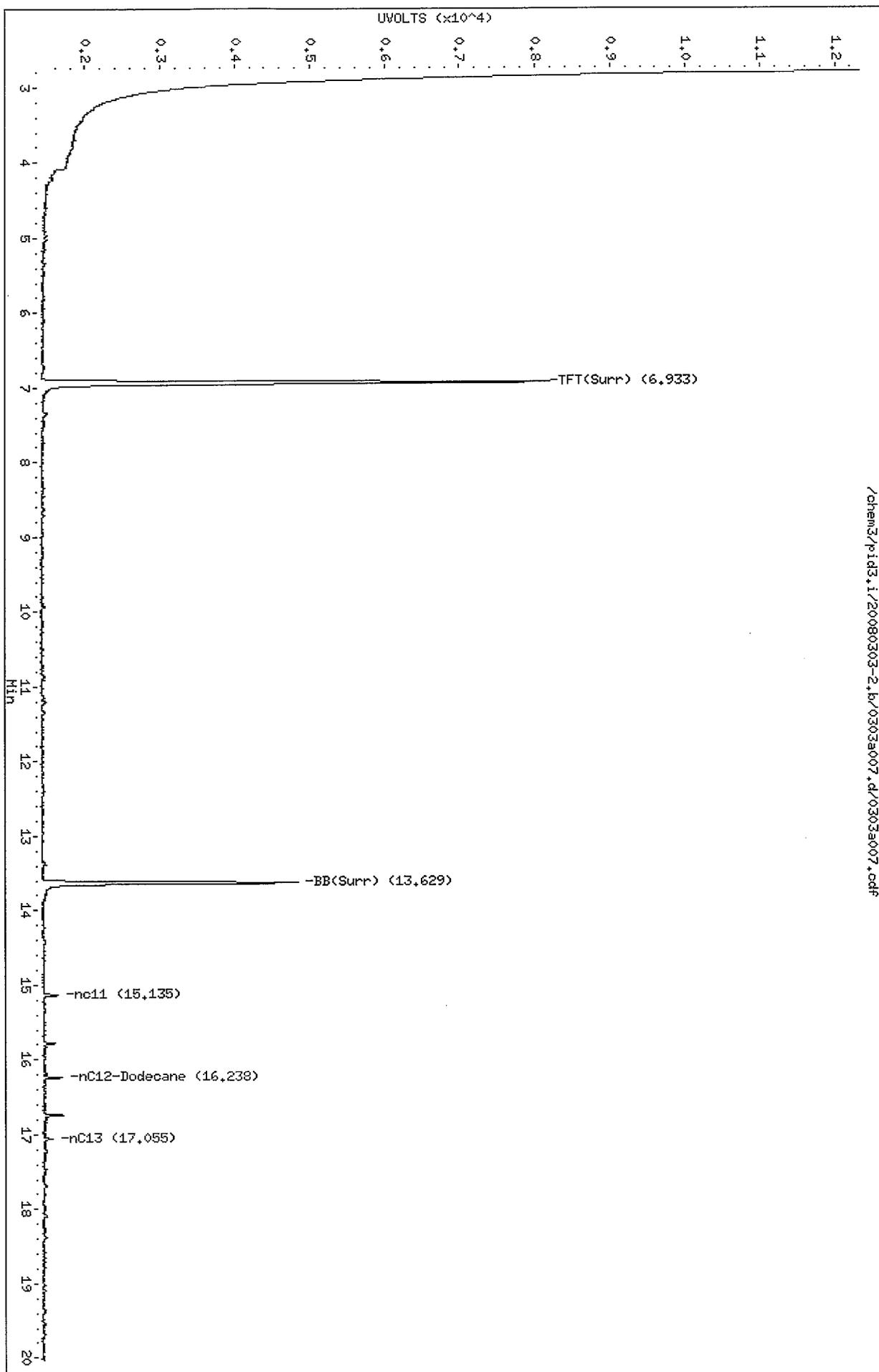
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080303-2.b/0303a007.d
Date: 03-MAR-2008 13:04
Client ID:
Sample Info: MB030308S1

Column phase: RTX 502-2 FID

/chem3/pid3.i/20080303-2.b/0303a007.d/0303a007.cdf

Instrument: pid3.i
Operator: PC
Column diameter: 0.18

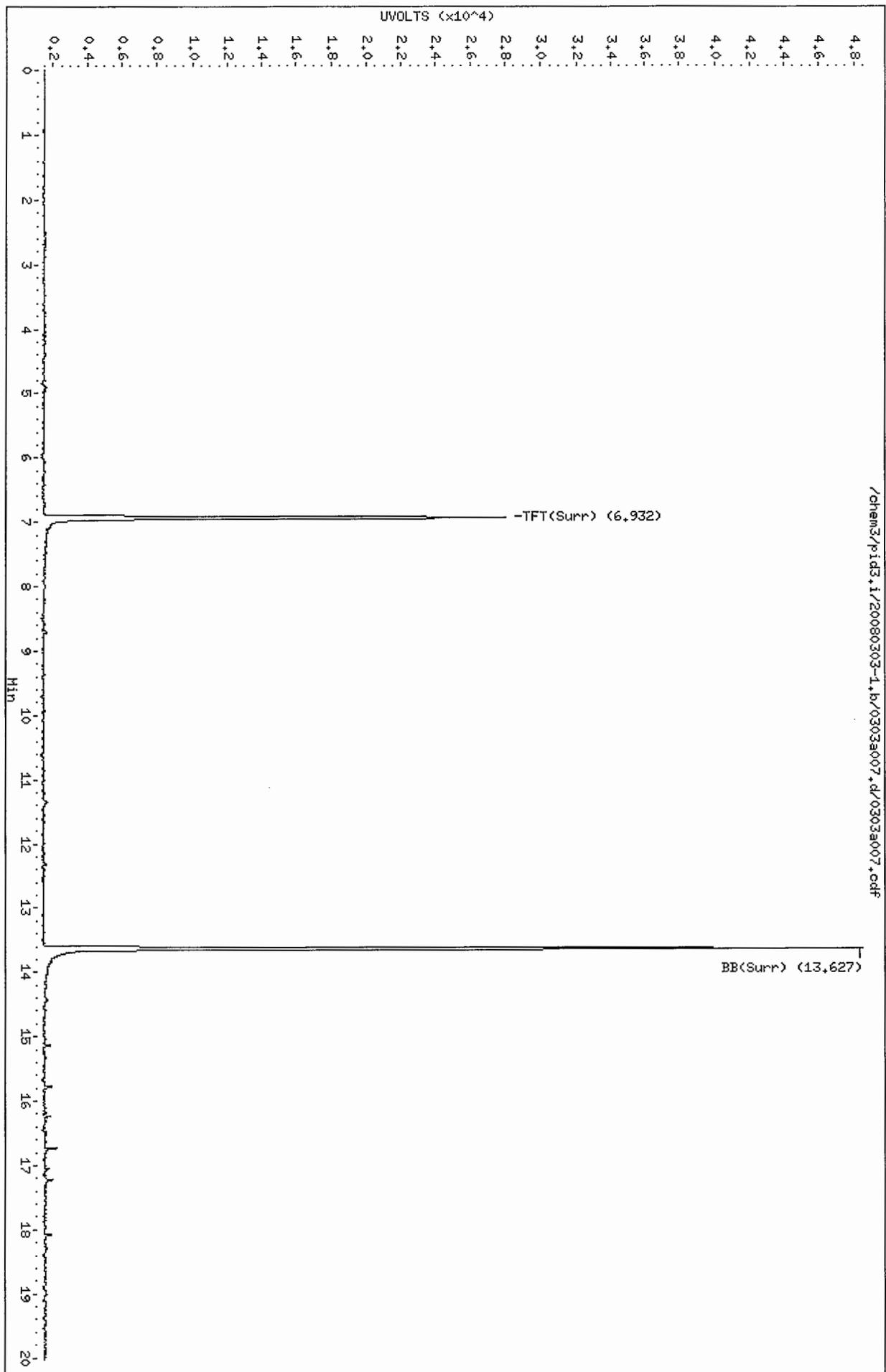


Data File: /chem3/pid3.i/20080303-1.b/0303a007.d
Date: 03-MAR-2008 13:04
Client ID:
Sample Info: HB030308S1

Column phase: RTX 502-2 PID

/chem3/pid3.i/20080303-1.b/0303a007.d/0303a007.cdf

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



RC
3/4/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a005.d ARI ID: LCS030308S1
Data file 2: /chem3/pid3.i/20080303-1.b/0303a005.d Client ID:
Method: /chem3/pid3.i/20080303-1.b/PIDB.m Injection Date: 03-MAR-2008 12:15
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.939	-0.009	6919	95865	98.6	TFT(Surr)
13.631	-0.007	3502	40932	103.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	881754	1.056
8015B (2MP-TMB)	1841210	1.050
AKGas (nC6-nC10)	1283748	1.048
NWGas (Tol-Nap)	926906	1.061

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.937	0.004	27471	98.4	TFT(Surr)
13.629	0.002	48183	101.3	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
6.226	0.005	11517	6.66	Benzene
8.709	0.003	103967	58.14	Toluene
11.210	0.002	17646	10.90	Ethylbenzene
11.348	0.005	72082	40.95	M/P-Xylene
12.136	0.002	22022	14.75	O-Xylene
4.055	0.007	39127	81.87	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080303-2.b/0303a005.d

Date: 03-MAR-2008 12:15

Client ID:

Sample Inlet: LCS030308S1

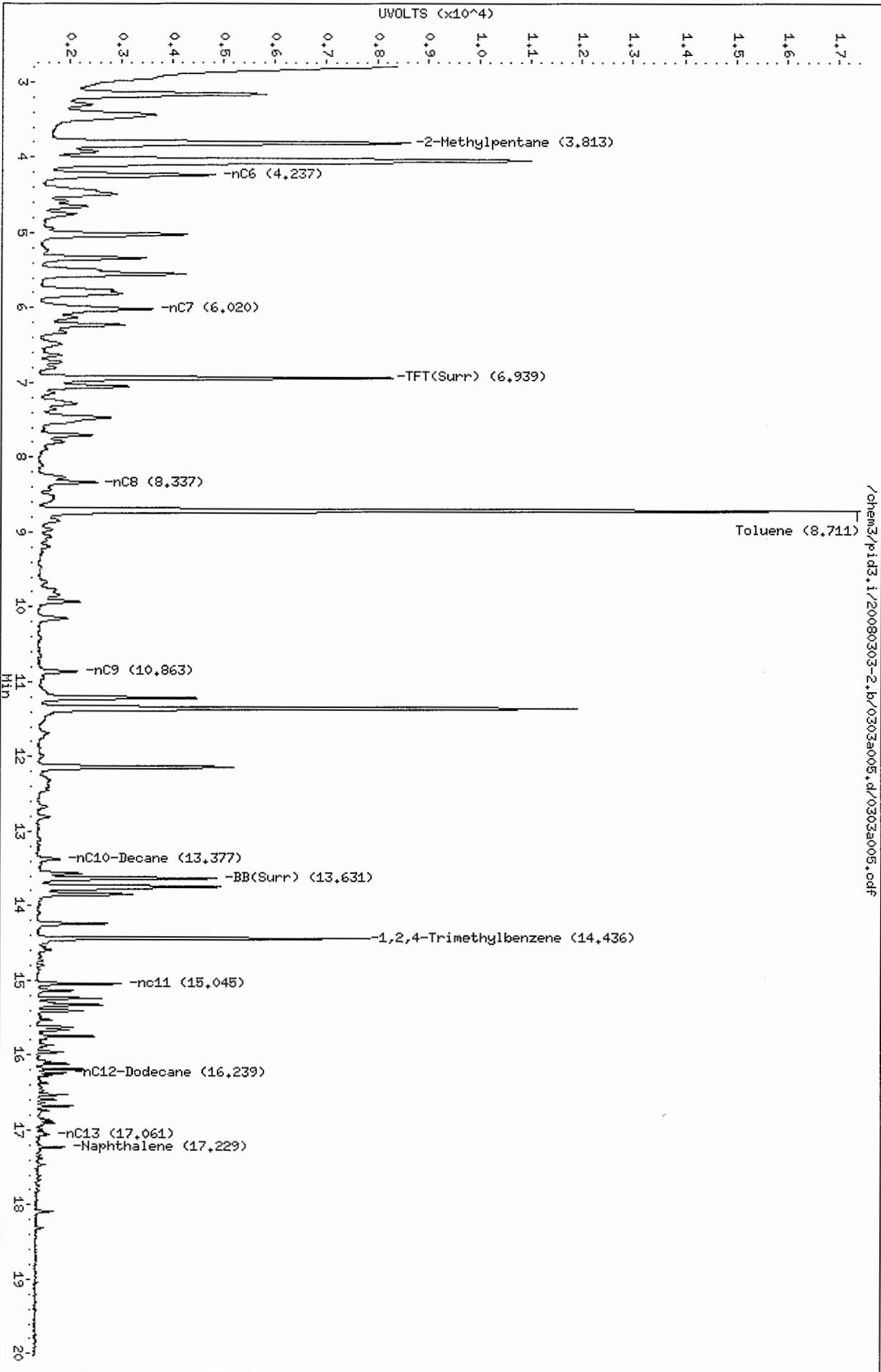
Instrument: pid3.i

Column phase: RTX 502-2 FID

Operator: PC

Column diameter: 0.18

/chem3/pid3.i/20080303-2.b/0303a005.d/0303a005.cdf



Data File: /chem3/pid3.i/20080303-1.b/0303a005.d
Date: 03-MAR-2008 12:15
Client ID:
Sample Info: LCS030308S1

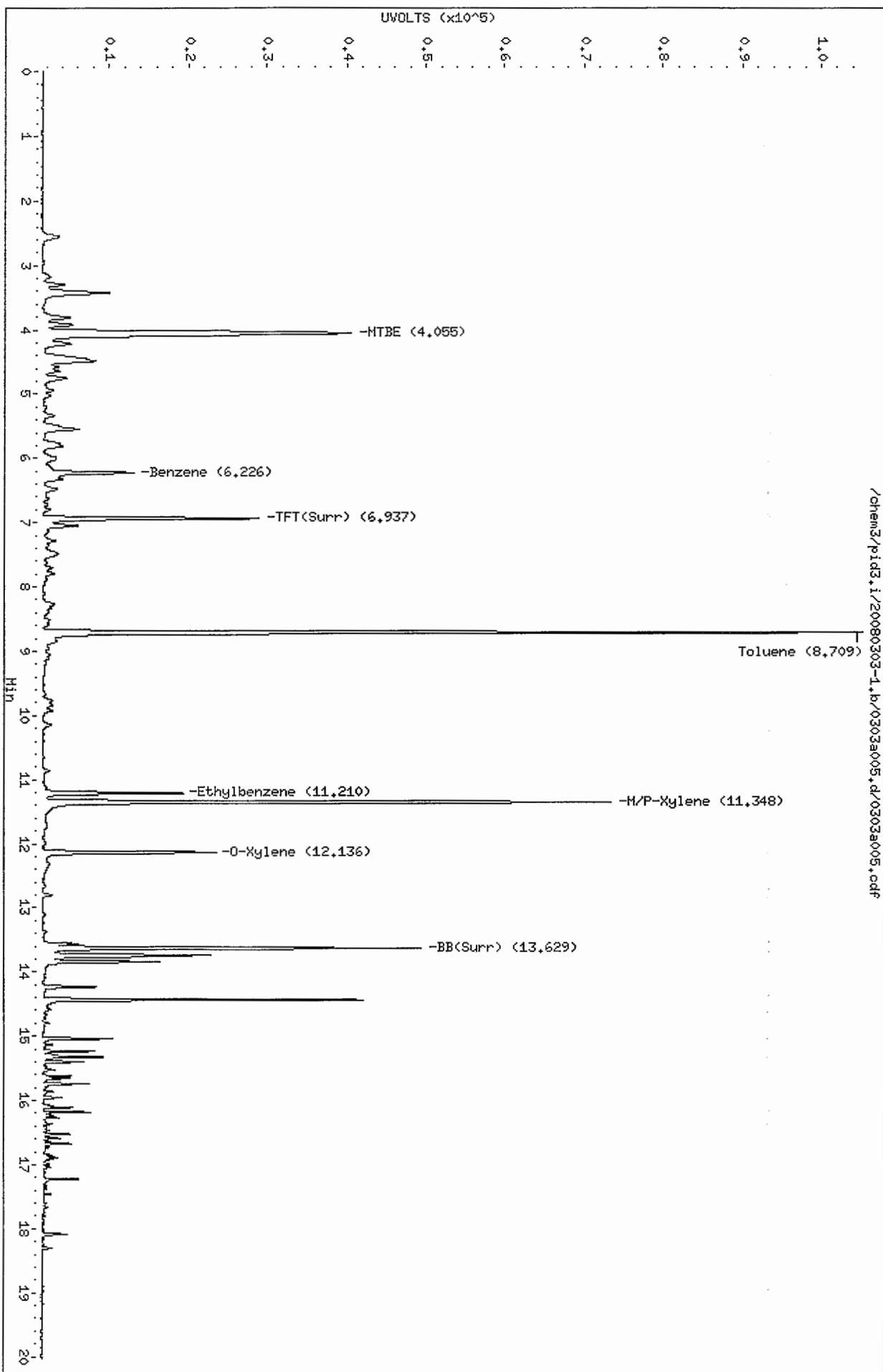
Column phase: RTX 502-2 PID

/chem3/pid3.i/20080303-1.b/0303a005.d/0303a005.cdf

Instrument: pid3.i

Operator: PC

Column diameter: 0.18



PL
3/4/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a006.d
Data file 2: /chem3/pid3.i/20080303-1.b/0303a006.d
Method: /chem3/pid3.i/20080303-1.b/PIDB.m
Instrument: pid3.i
Gas Ical Date: 17-OCT-2007
BETX Ical Date: 17-OCT-2007

ARI ID: LCSD030308S1
Client ID:
Injection Date: 03-MAR-2008 12:39
Matrix: WATER
Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.939	-0.008	6692	92937	95.4	TFT(Surr)
13.631	-0.007	3397	39709	100.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	803810	0.963
8015B (2MP-TMB)	1694469	0.966
AKGas (nC6-nC10)	1169558	0.954
NWGas (Tol-Nap)	847846	0.971

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.937	0.004	26612	95.3	TFT(Surr)
13.629	0.002	46945	98.7	BB(Surr)

AROMATICS (PID)

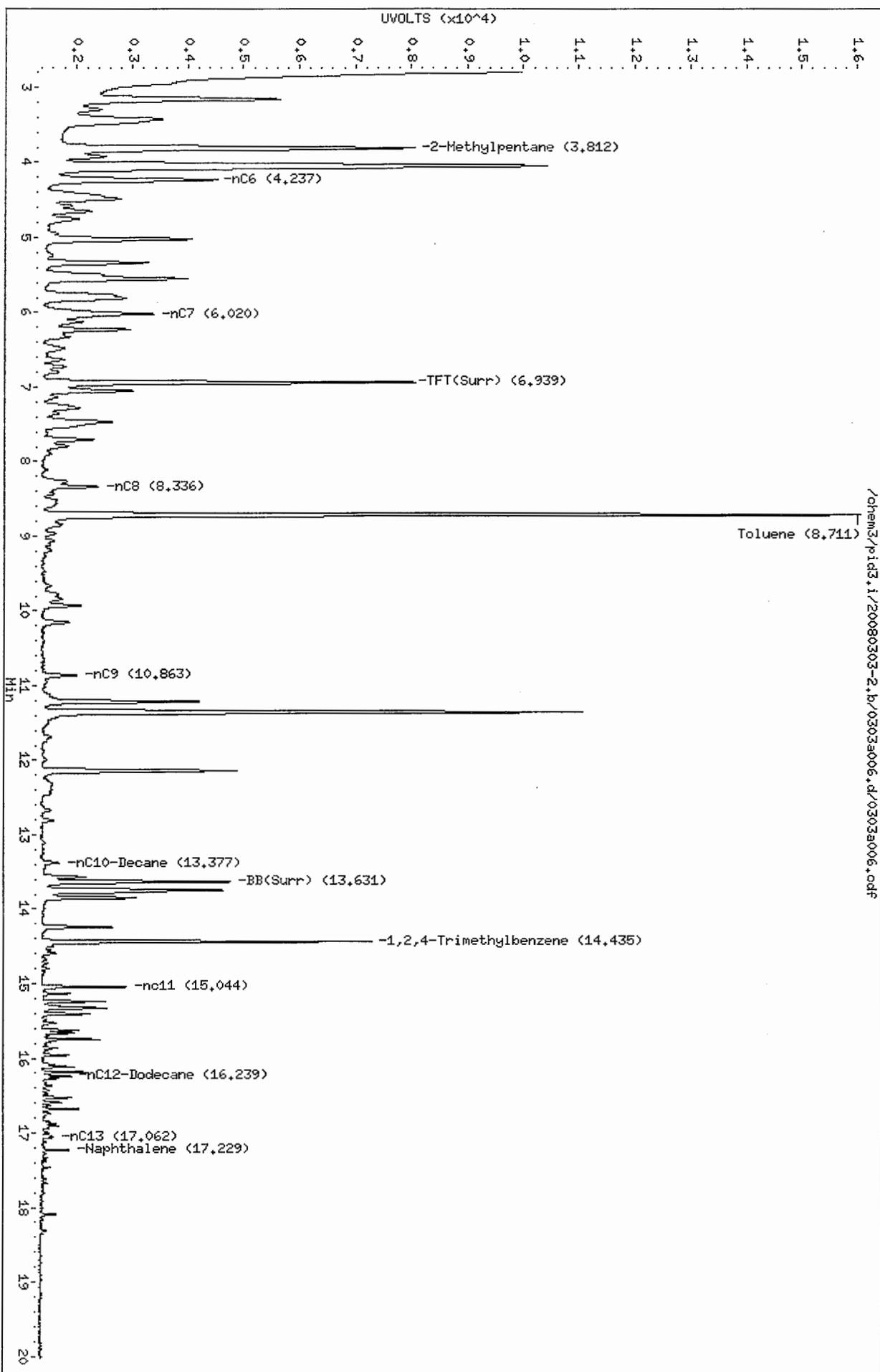
RT	Shift	Response	Amount	Compound
6.225	0.004	10698	6.19	Benzene
8.709	0.004	96068	53.73	Toluene
11.210	0.002	16459	10.16	Ethylbenzene
11.348	0.004	67164	38.15	M/P-Xylene
12.136	0.002	20379	13.65	O-Xylene
4.055	0.007	37481	78.42	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.1/20080303-2.b/0303a006.d
Date: 03-MAR-2008 12:39
Client ID:
Sample Info: LCSID030308S1

Column phase: RTX 502-2 FID

Instrument: pid3.1
Operator: PC
Column diameter: 0.18

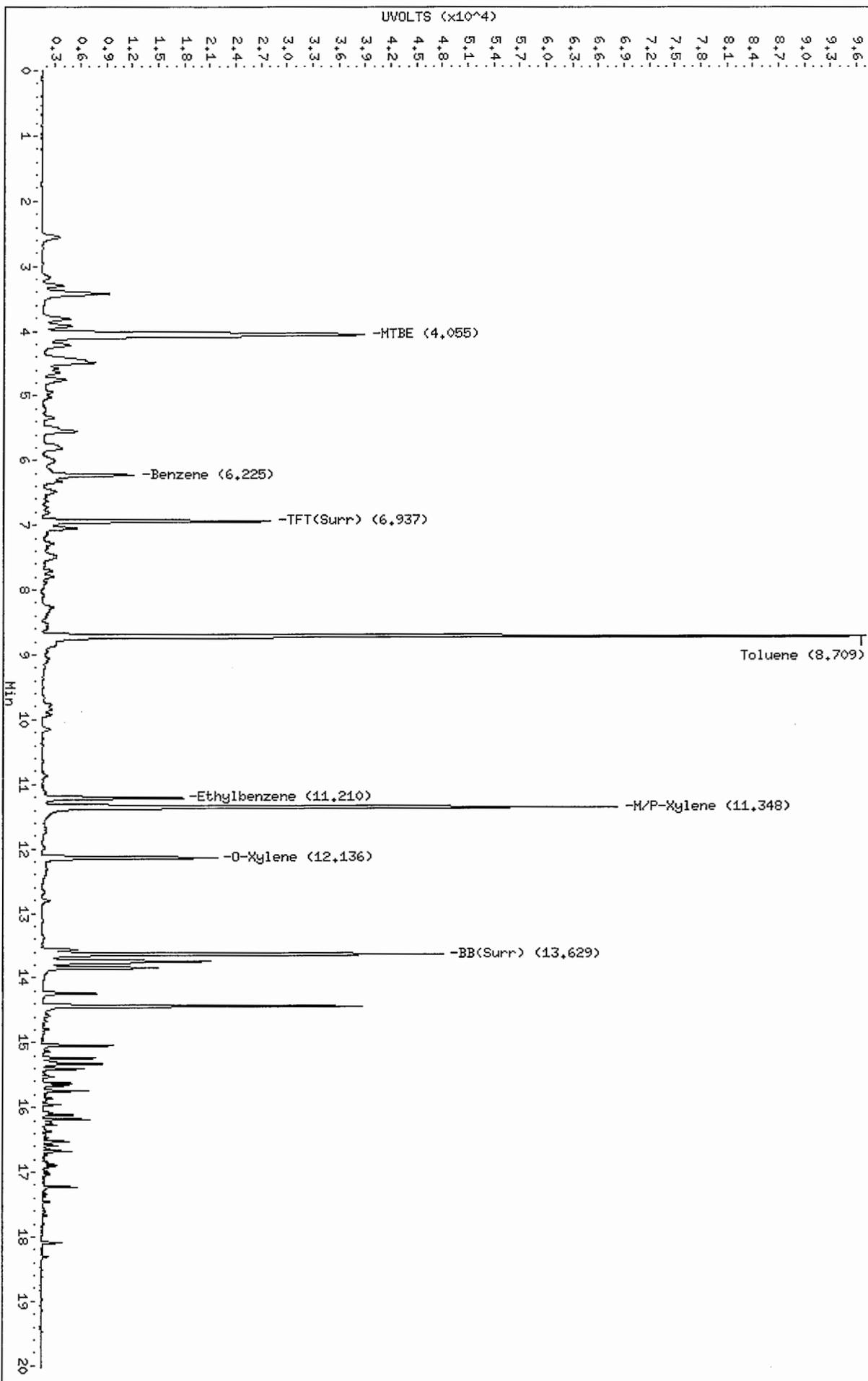


Data File: /chem3/pid3.1/20080303-1.b/0303a006.d
Date: 03-MAR-2008 12:39
Client ID:
Sample Info: LCSID030308S1

Column phase: RTX 502-2 PID

/chem3/pid3.1/20080303-1.b/0303a006.d/0303a006.cdf

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a025.d
Data file 2: /chem3/pid3.i/20080303-1.b/0303a025.d
Method: /chem3/pid3.i/20080303-1.b/PIDB.m
Instrument: pid3.i
Gas Ical Date: 17-OCT-2007
BETX Ical Date: 17-OCT-2007

ARI ID: MK75BMS
Client ID:
Injection Date: 03-MAR-2008 20:45
Matrix: WATER
Dilution Factor: 1.000

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FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.939	-0.009	6903	98060	98.4	TFT(Surr)
13.629	-0.009	3624	42023	107.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	1019066	1.221
8015B (2MP-TMB)	2000102	1.140
AKGas (nC6-nC10)	1399335	1.142
NWGas (Tol-Nap)	1097932	1.257

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.938	0.004	27174	97.3	TFT(Surr)
13.627	0.001	50068	105.3	BB(Surr)

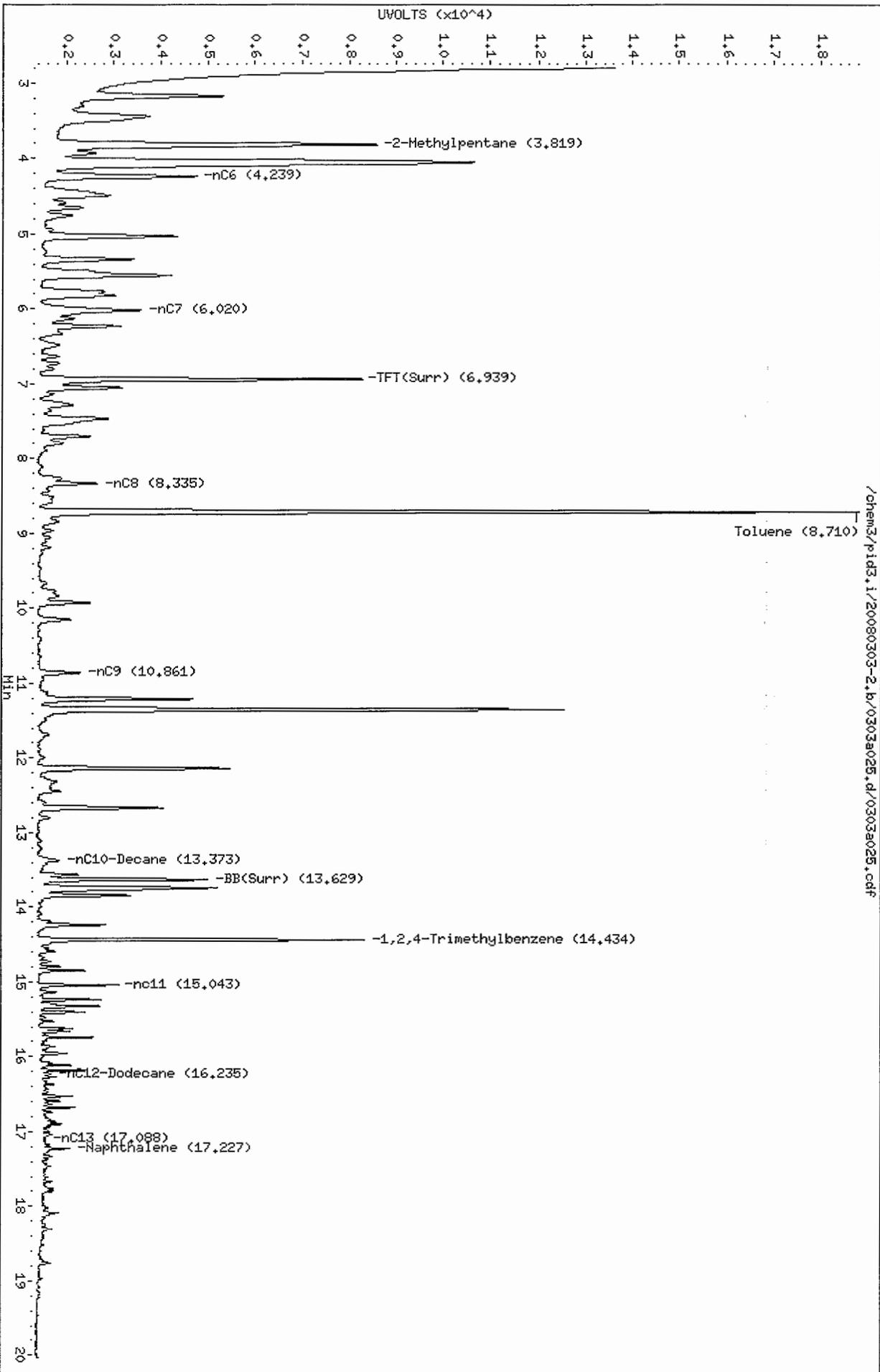
AROMATICS (PID)

RT	Shift	Response	Amount	Compound
6.229	0.008	12121	7.01	Benzene
8.709	0.004	112564	62.95	Toluene
11.209	0.002	18918	11.68	Ethylbenzene
11.348	0.004	76627	43.53	M/P-Xylene
12.135	0.001	23936	16.03	O-Xylene
4.067	0.019	37668	78.82	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080303-2.b/0303a025.d
Date: 03-MAR-2008 20:45
Client ID:
Sample Info: HK75BHS
Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



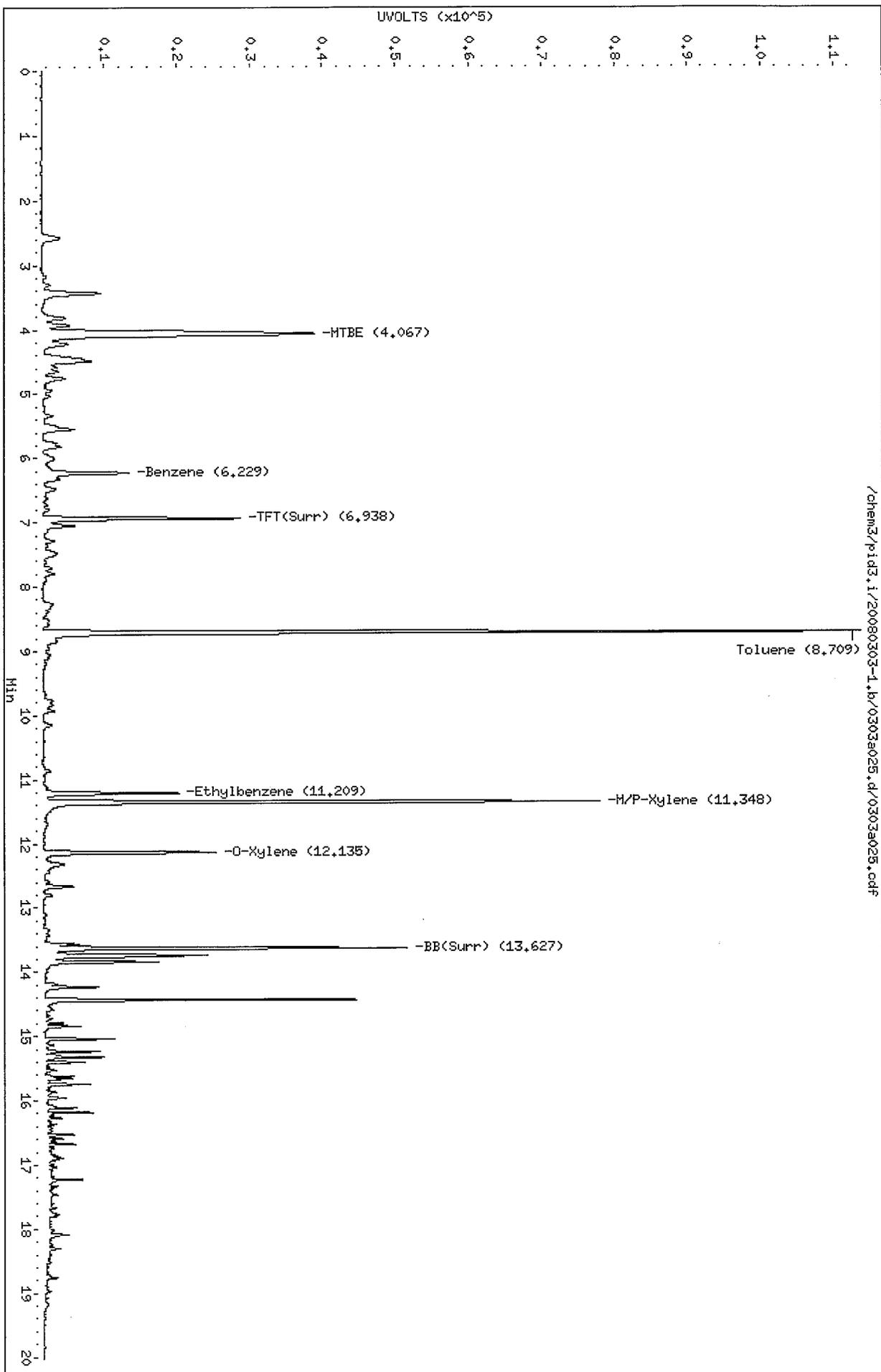
/chem3/pid3.i/20080303-2.b/0303a025.d/0303a025.cdf

Data File: /chem3/pid3.i/20080303-1.b/0303a025.d
Date: 03-MAR-2008 20:45
Client ID:
Sample Info: MK75BMS

Column phase: RTX 502-2 PID

/chem3/pid3.i/20080303-1.b/0303a025.d/0303a025.cdf

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a029.d ARI ID: MK75BMSD
Data file 2: /chem3/pid3.i/20080303-1.b/0303a029.d Client ID:
Method: /chem3/pid3.i/20080303-1.b/PIDB.m Injection Date: 03-MAR-2008 22:24
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.940	-0.008	6584	93115	93.8	TFT(Surr)
13.628	-0.010	3490	40747	103.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	949888	1.138
8015B (2MP-TMB)	1798836	1.026
AKGas (nC6-nC10)	1261628	1.030
NWGas (Tol-Nap)	1002198	1.147

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.938	0.005	25631	91.8	TFT(Surr)
13.627	0.000	47561	100.0	BB(Surr)

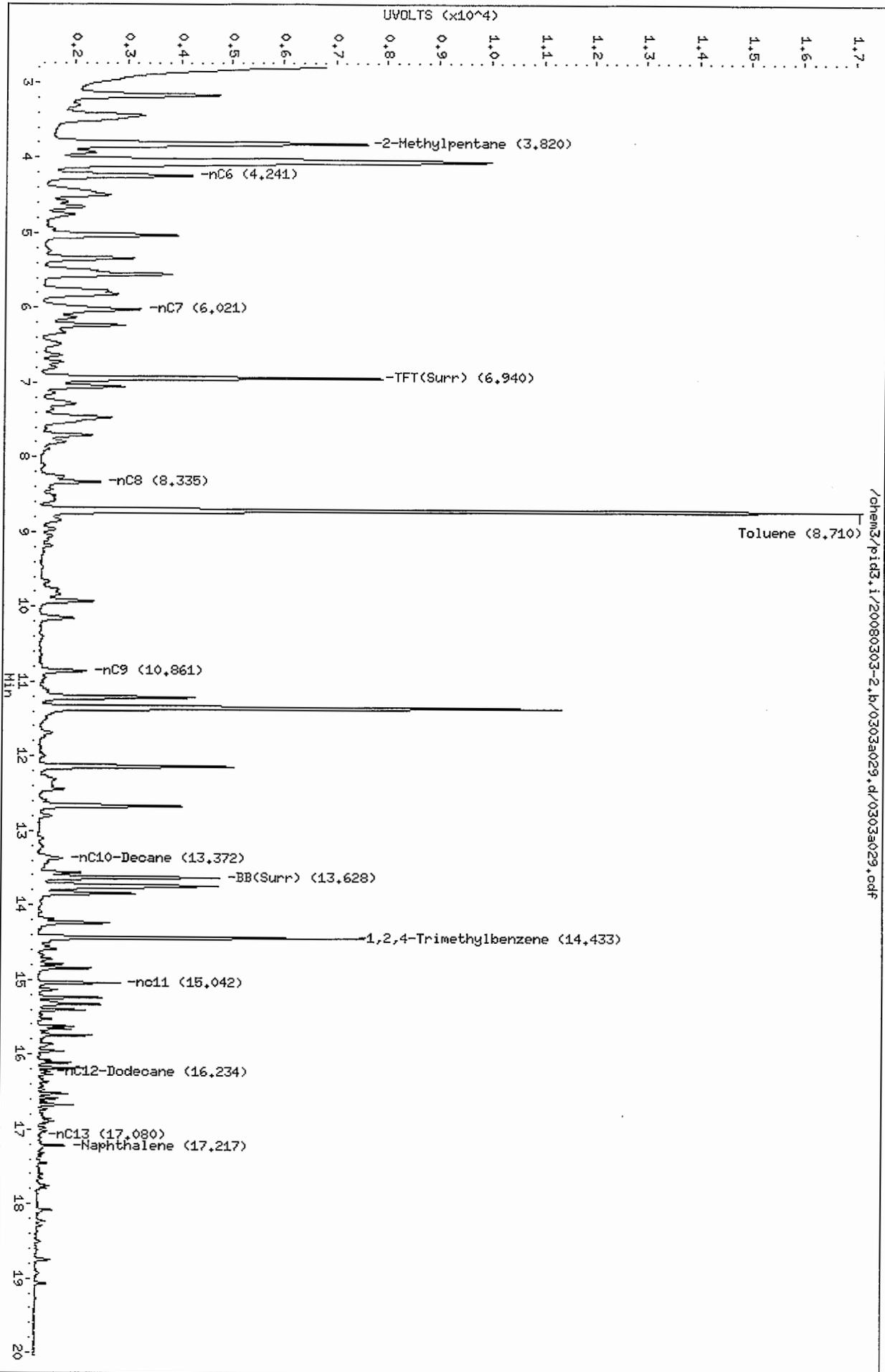
AROMATICS (PID)

RT	Shift	Response	Amount	Compound
6.228	0.007	10936	6.33	Benzene
8.709	0.004	101593	56.82	Toluene
11.209	0.001	16950	10.47	Ethylbenzene
11.347	0.003	68752	39.06	M/P-Xylene
12.134	0.000	21571	14.45	O-Xylene
4.064	0.016	35506	74.29	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080303-2.b/0303a029.d
Date: 03-MAR-2008 22:24
Client ID:
Sample Info: HK75BMSD
Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



Data File: /chem3/pid3.i/20080303-1.b/0303a029.i.d

Date: 03-MAR-2008 22:24

Client ID:

Sample Info: HK75BMSD

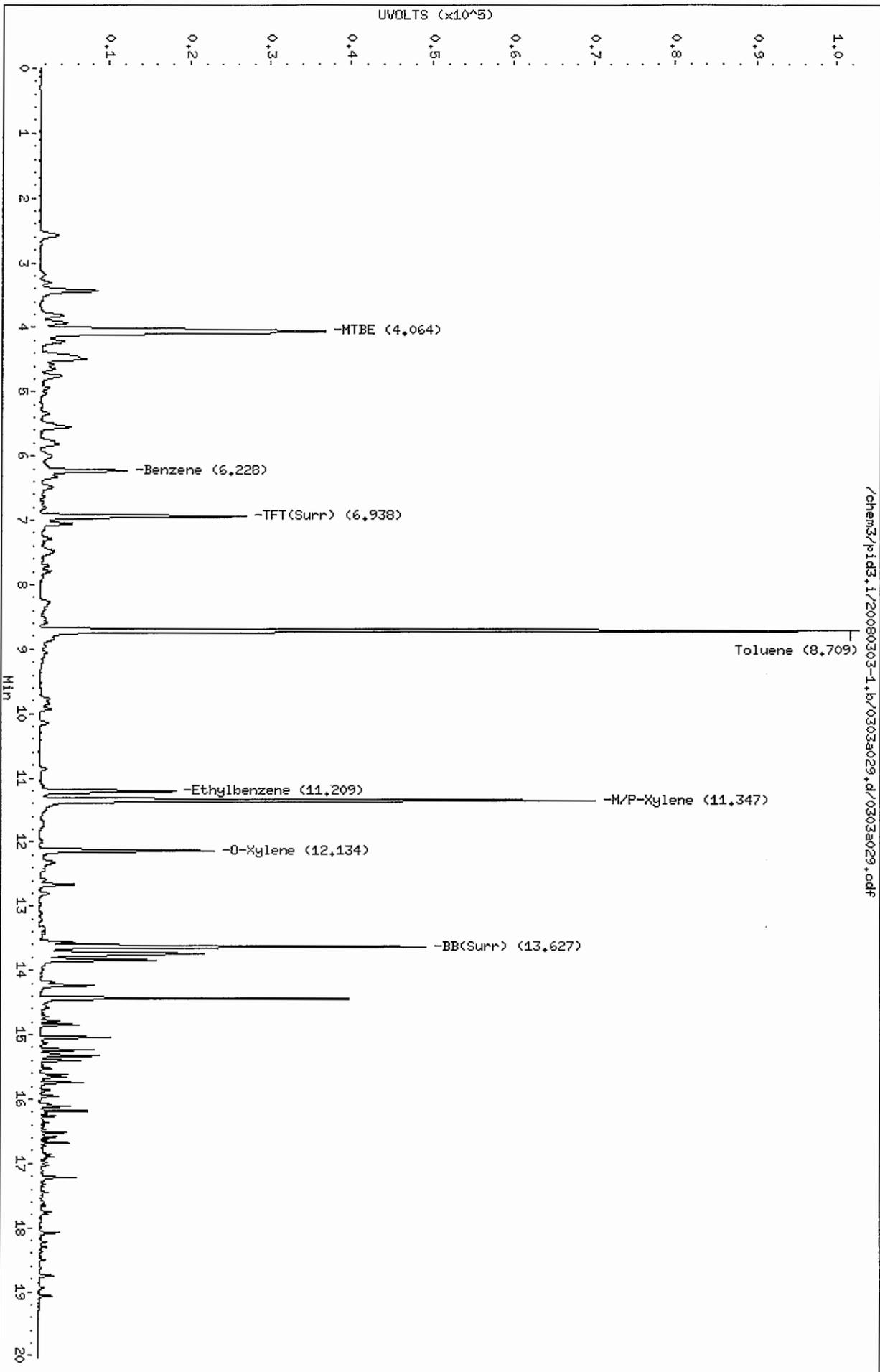
Instrument: pid3.i

Operator: PC

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid3.i/20080303-1.b/0303a029.d/0303a029.cdf



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a011.d ARI ID: MK75A
Data file 2: /chem3/pid3.i/20080303-1.b/0303a011.d Client ID: TP-8-12.5
Method: /chem3/pid3.i/20080303-1.b/PIDB.m Injection Date: 03-MAR-2008 14:59
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

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FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.941	-0.007	6454	85905	92.0	TFT(Surr)
13.631	-0.007	3250	38090	96.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	19790	0.024
8015B (2MP-TMB)	16384	0.009
AKGas (nC6-nC10)	16384	0.013
NWGas (Tol-Nap)	29054	0.033

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.939	0.006	25535	91.5	TFT(Surr)
13.629	0.002	45025	94.7	BB(Surr)

AROMATICS (PID)

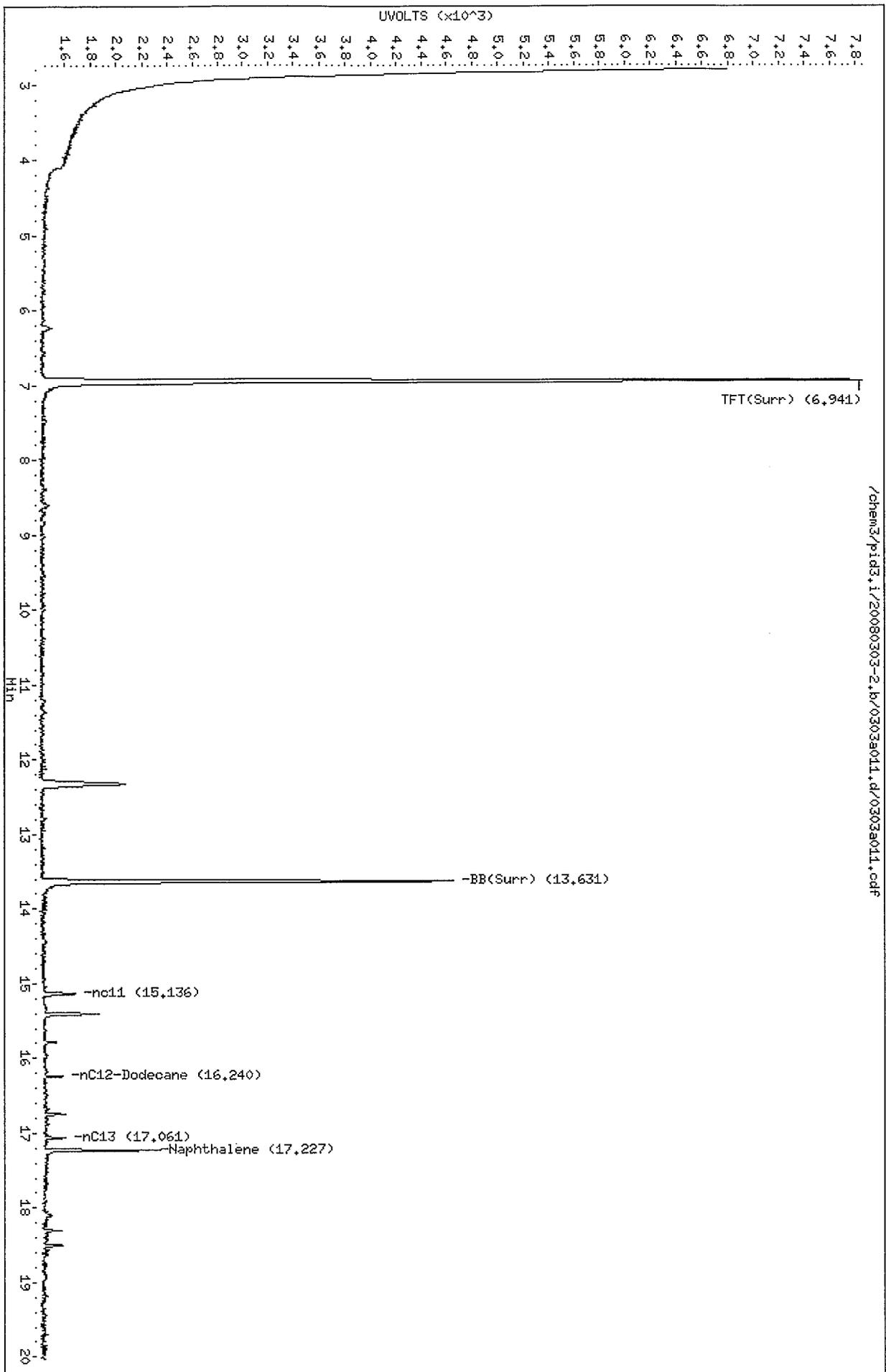
RT	Shift	Response	Amount	Compound
6.229	0.008	532	0.31	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080303-2.b/0303a011.d
Date: 03-MAR-2008 14:59
Client ID: TP-8-12.5
Sample Info: MK75A

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



Data File: /chem3/pid3.i/20080303-1.b/0303a011.d

Date: 03-MAR-2008 14:59

Client ID: TP-8-12.5

Sample Info: MK75A

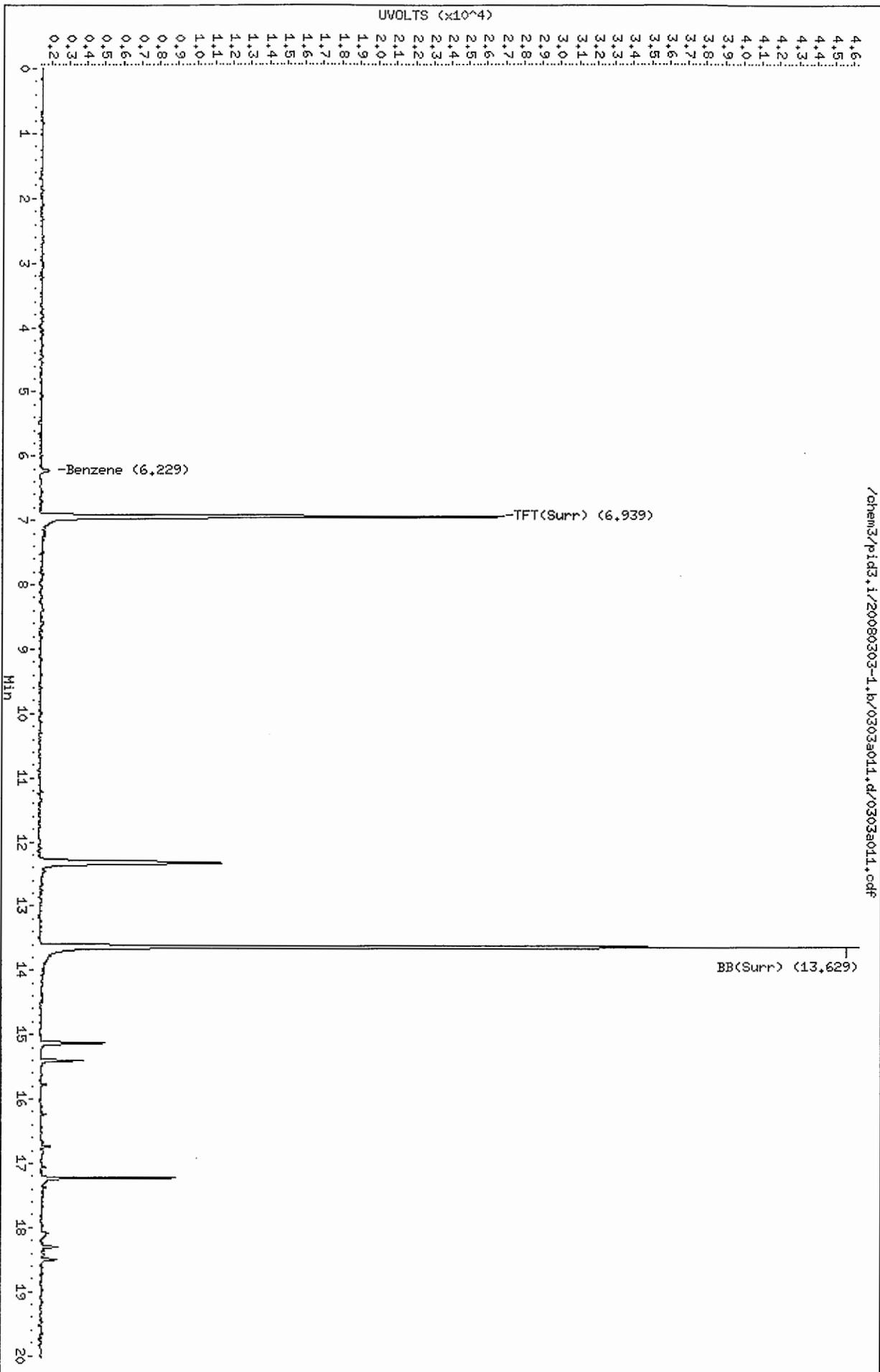
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: PC

Column diameter: 0.18

/chem3/pid3.i/20080303-1.b/0303a011.d/0303a011.cdf



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a012.d ARI ID: MK75B
Data file 2: /chem3/pid3.i/20080303-1.b/0303a012.d Client ID: TP-8-2
Method: /chem3/pid3.i/20080303-1.b/PIDB.m Injection Date: 03-MAR-2008 15:23
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.937	-0.010	6744	88772	96.1	TFT(Surr)
13.630	-0.008	3352	37670	99.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	105368	0.126
8015B (2MP-TMB)	97412	0.056
AKGas (nC6-nC10)	68673	0.056
NWGas (Tol-Nap)	115664	0.132 <i>GRD</i>

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.936	0.003	26714	95.7	TFT(Surr)
13.628	0.002	46428	97.6	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
8.709	0.004	2700	1.51	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.1/20080303-2.b/0303a012.d
Date: 03-MAR-2008 15:23
Client ID: TP-8-2
Sample Info: MK75B

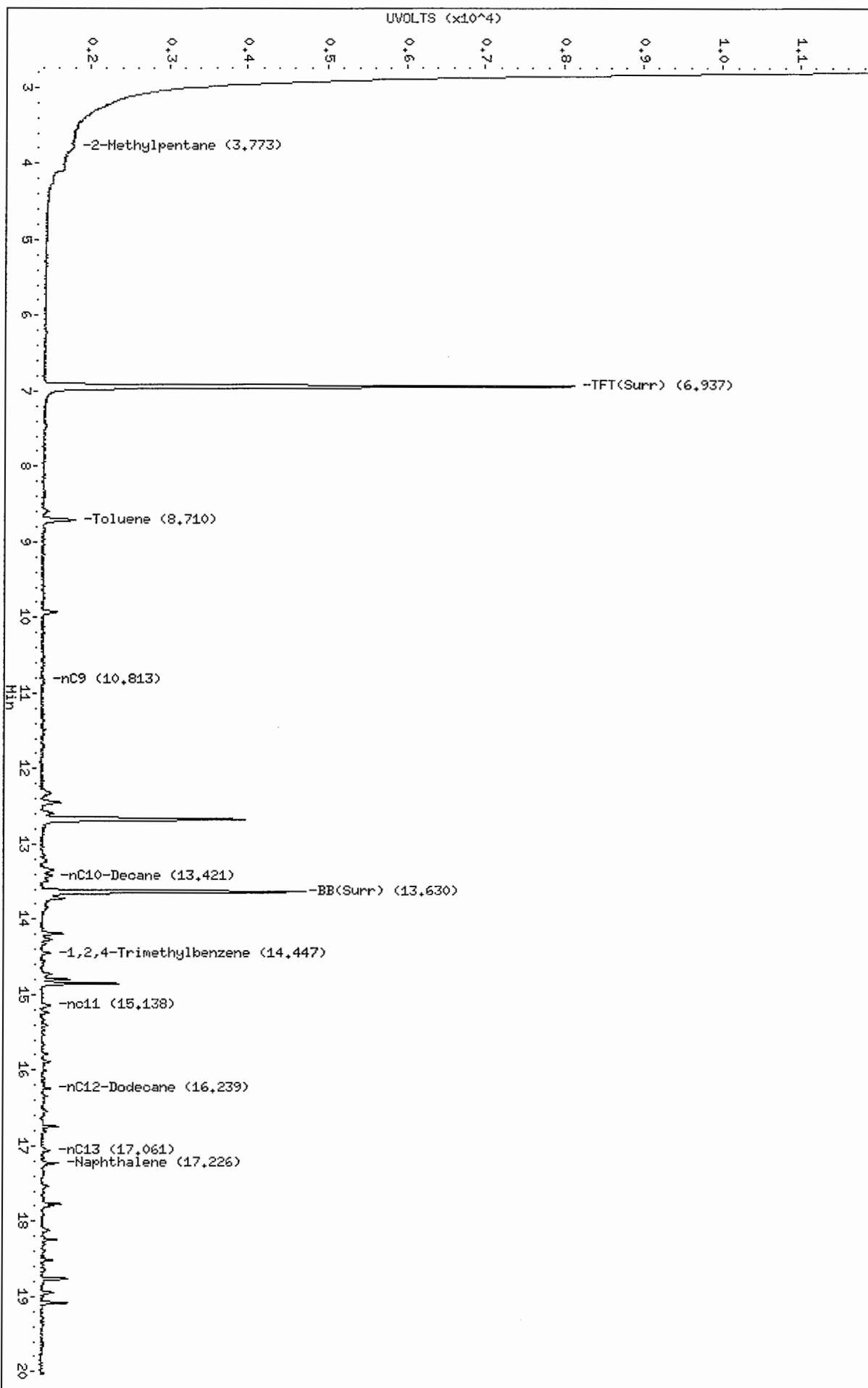
Column phase: RTX 502-2 FID

/chem3/pid3.1/20080303-2.b/0303a012.d/0303a012.odr

Instrument: pid3.1

Operator: PC

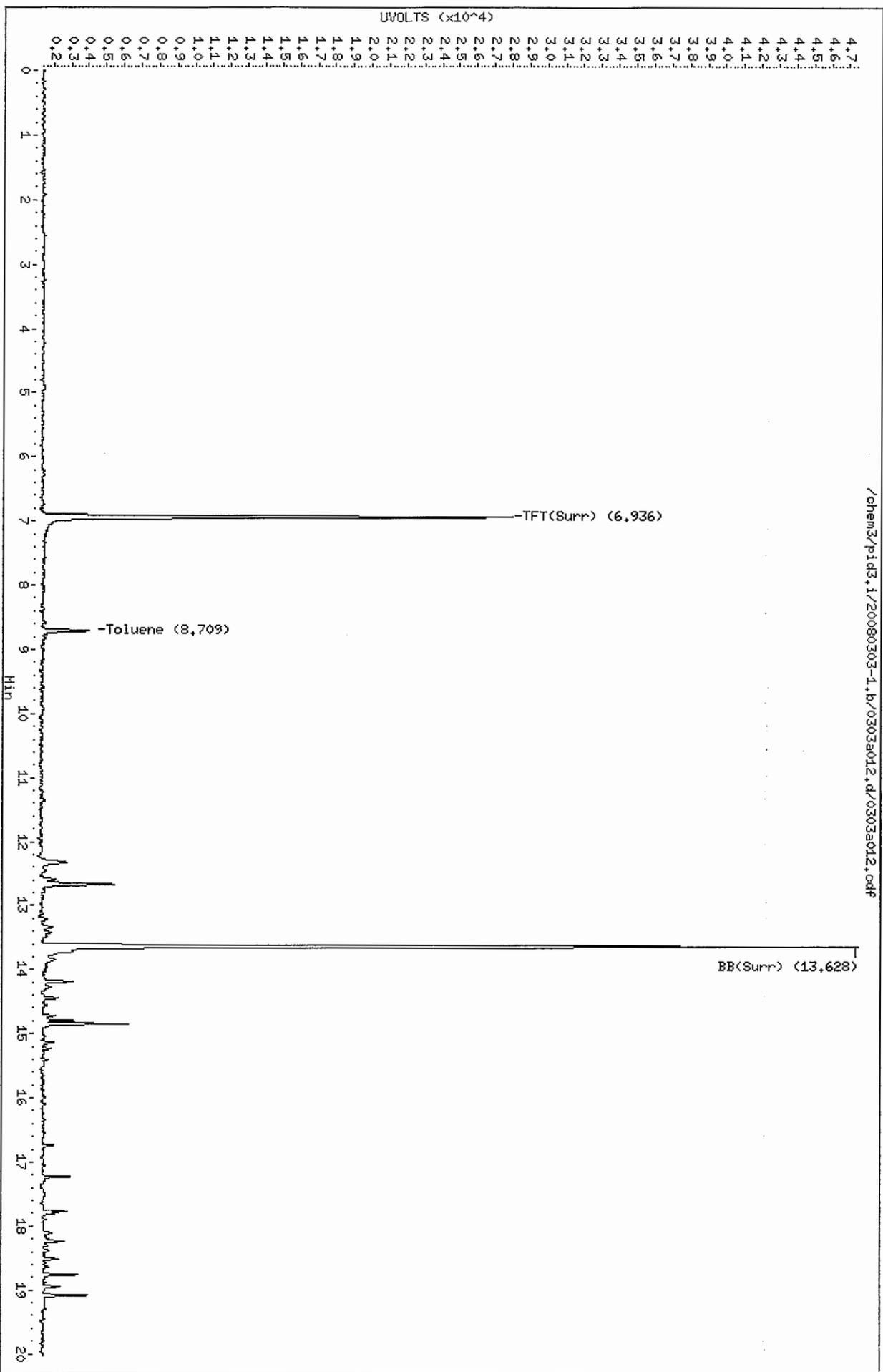
Column diameter: 0.18



Data File: /chem3/pid3,i/20080303-1.b/0303a012.d
Date: 03-MAR-2008 15:23
Client ID: TP-8-2
Sample Info: MK75B

Column phase: RTX 502-2 PID

Instrument: pid3,i
Operator: PC
Column diameter: 0.18



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a013.d ARI ID: MK75C
Data file 2: /chem3/pid3.i/20080303-1.b/0303a013.d Client ID: TP-9-13
Method: /chem3/pid3.i/20080303-1.b/PIDB.m Injection Date: 03-MAR-2008 15:48
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.939	-0.008	6731	88547	95.9	TFT(Surr)
13.629	-0.008	3410	39918	100.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	28605	0.034
8015B (2MP-TMB)	24287	0.014
AKGas (nC6-nC10)	22884	0.019
NWGas (Tol-Nap)	30335	0.035

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.938	0.005	26647	95.4	TFT(Surr)
13.628	0.001	47226	99.3	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

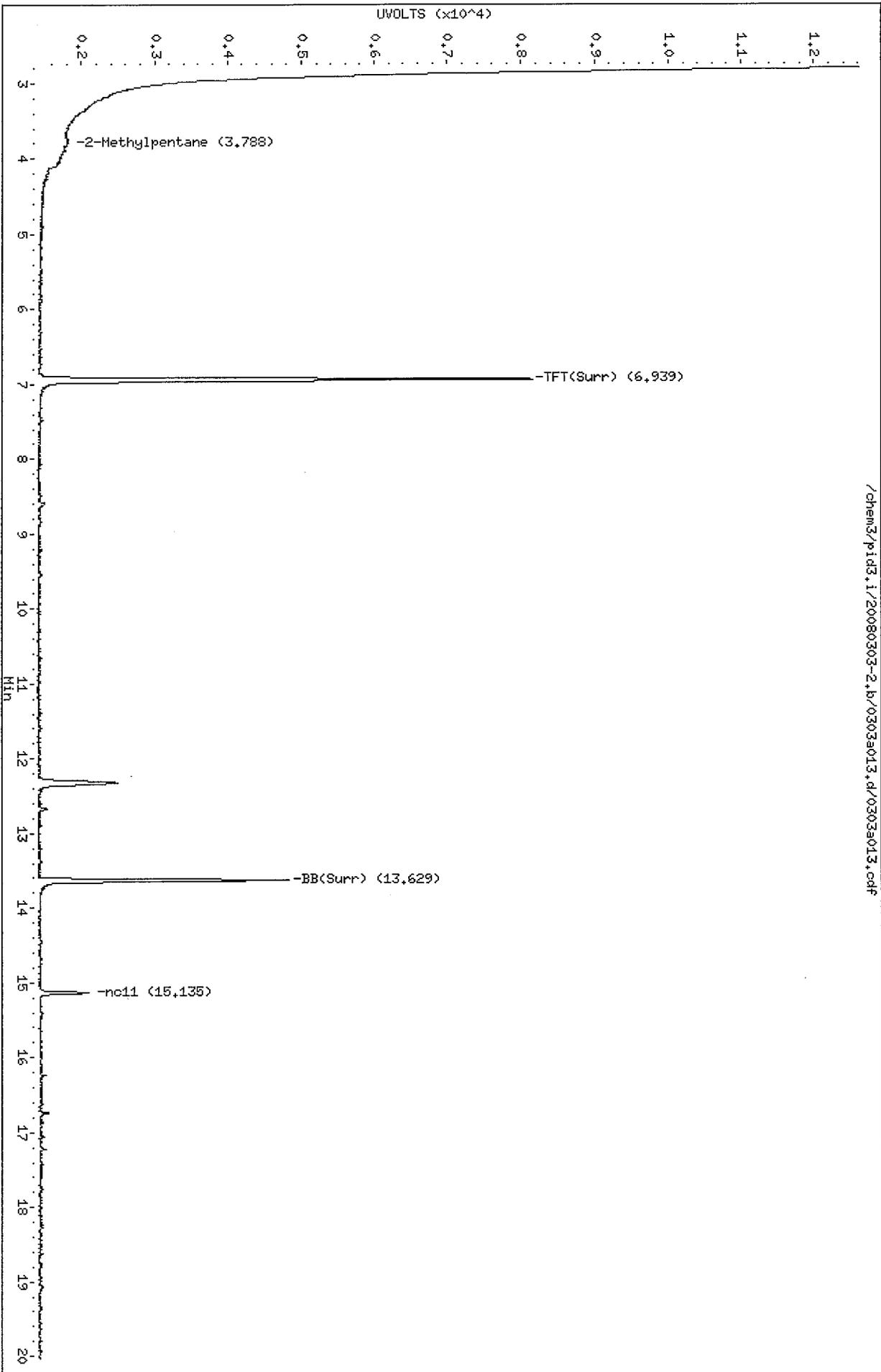
Data File: /chem3/pid3.1/20080303-2.b/0303a013.d
Date: 03-MAR-2008 15:48
Client ID: TP-9-13
Sample Info: HK75C

Instrument: pid3.1

Page 1

Column phase: RTX 502-2 FID

Operator: PC
Column diameter: 0.18



/chem3/pid3.1/20080303-2.b/0303a013.d/0303a013.cdf

Data File: /chem3/pid3.i/20080303-1.b/0303a013.d
Date: 03-MAR-2008 15:48
Client ID: TP-9-13
Sample Info: HK75C

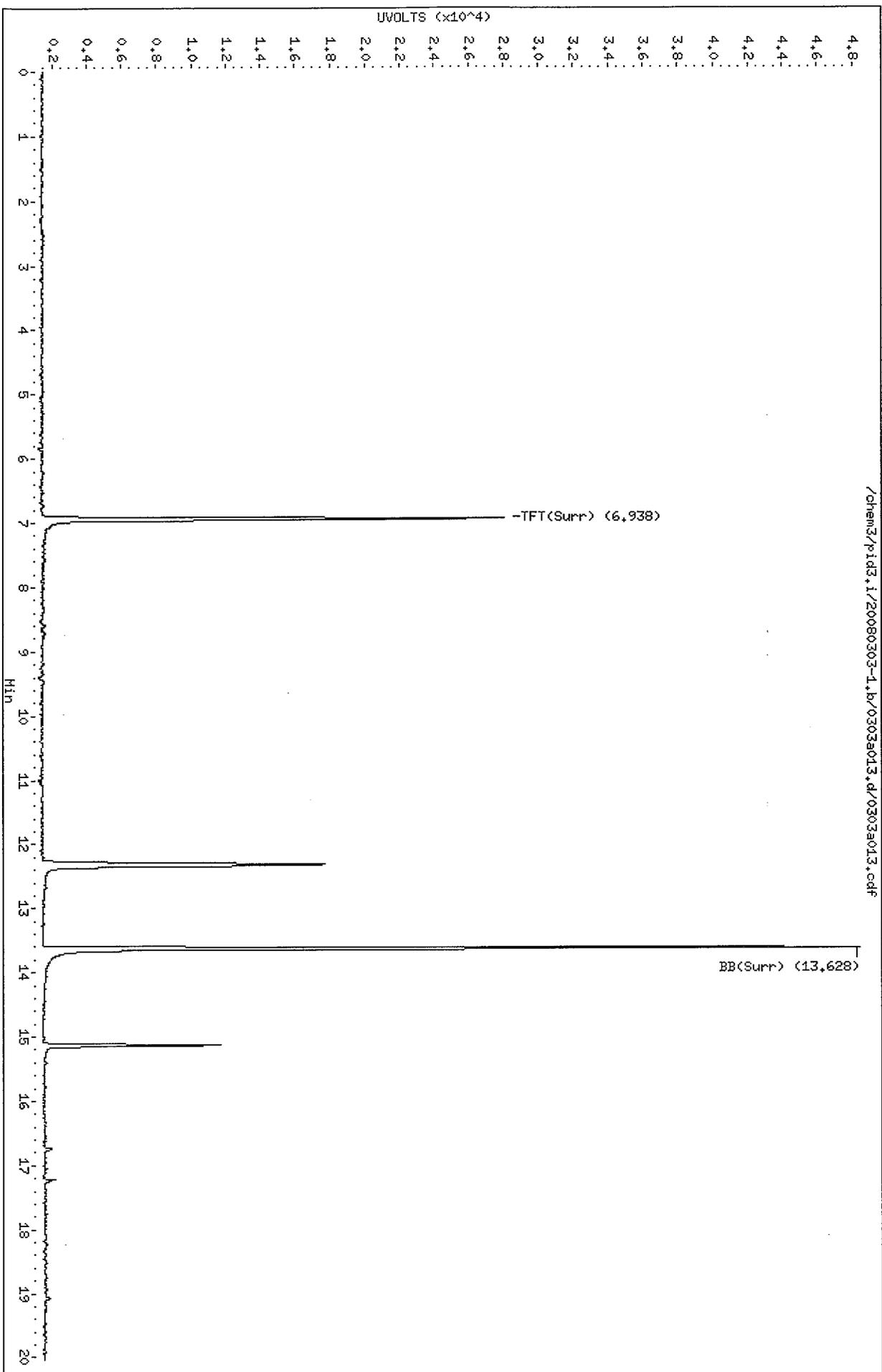
Column phase: RTX 502-2 P1D

/chem3/pid3.i/20080303-1.b/0303a013.d/0303a013.cdf

Instrument: pid3.i

Operator: PC

Column diameter: 0.18



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a017.d ARI ID: MK75D
Data file 2: /chem3/pid3.i/20080303-1.b/0303a017.d Client ID: TP-9-1.5
Method: /chem3/pid3.i/20080303-1.b/PIDB.m Injection Date: 03-MAR-2008 17:27
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.941	-0.006	6391	84054	91.1	TFT(Surr)
13.630	-0.008	3272	37244	96.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	4845	0.006
8015B (2MP-TMB)	6333	0.004
AKGas (nC6-nC10)	3421	0.003
NWGas (Tol-Nap)	6222	0.007

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.939	0.006	24970	89.4	TFT(Surr)
13.628	0.001	44618	93.8	BB(Surr)

AROMATICS (PID)

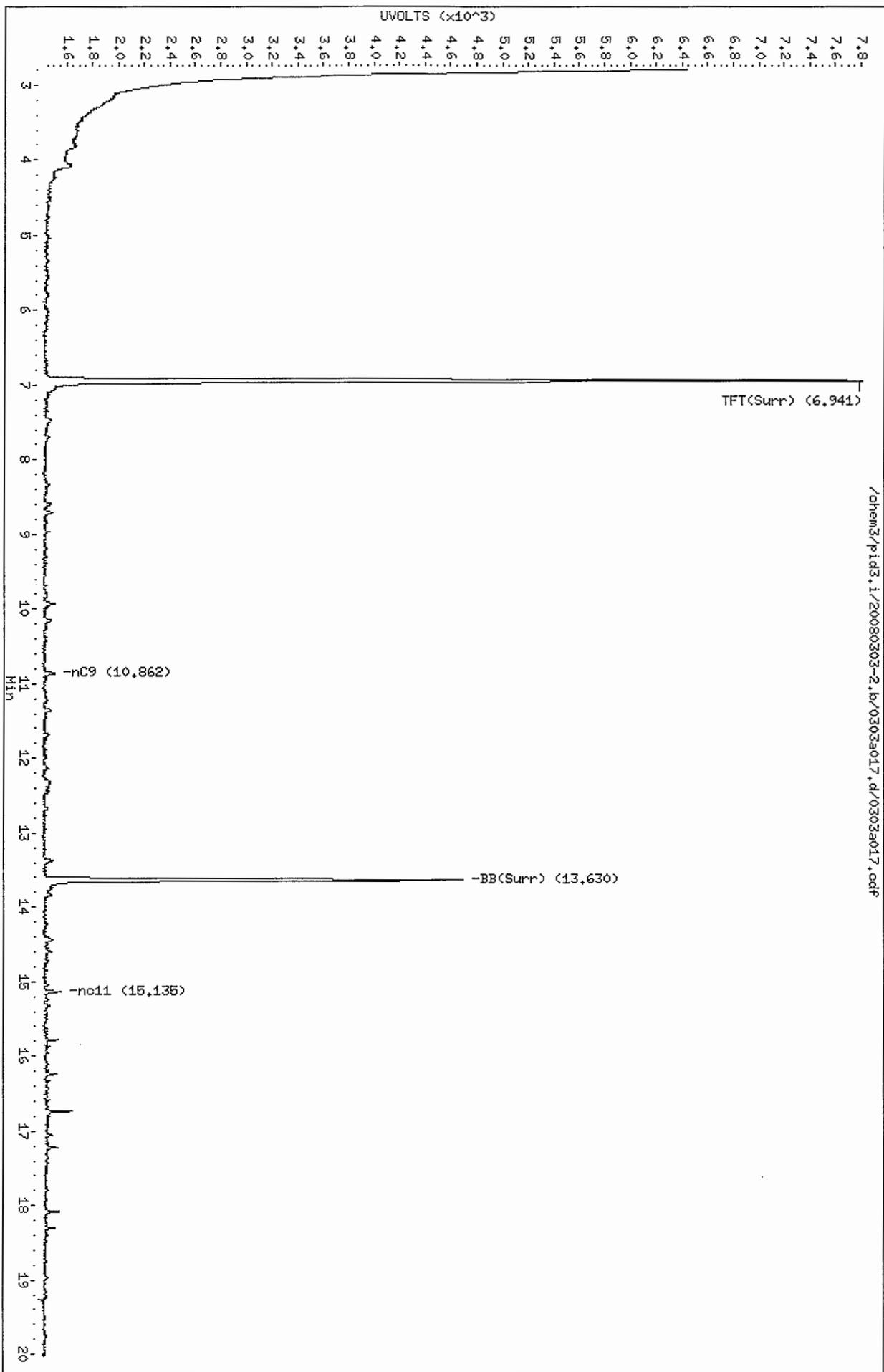
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080303-2.b/0303a017.d
Date : 03-MAR-2008 17:27
Client ID: TP-9-1.5
Sample Info: HK75D

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



Data File: /chem3/pid3.i/20080303-1.b/0303a017.d
Date: 03-MAR-2008 17:27
Client ID: TP-9-1.5
Sample Info: HK75D

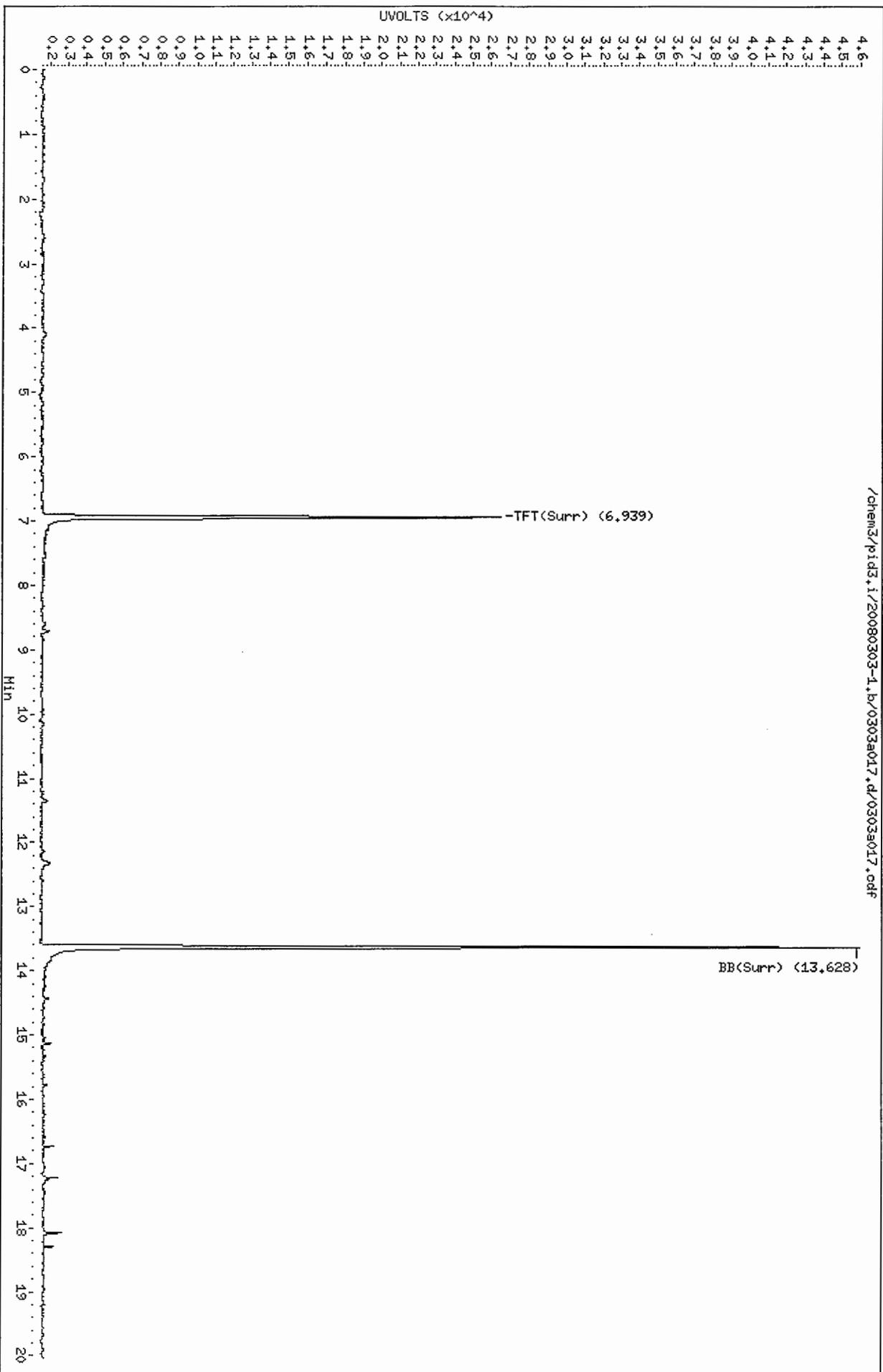
Column phase: RTX 502-2 PID

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Instrument: pid3.i

Operator: PC

Column diameter: 0.18



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a018.d ARI ID: MK75E
Data file 2: /chem3/pid3.i/20080303-1.b/0303a018.d Client ID: TP-10-8
Method: /chem3/pid3.i/20080303-1.b/PIDB.m Injection Date: 03-MAR-2008 17:52
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.939	-0.009	6159	82943	87.8	TFT(Surr)
13.629	-0.009	3147	37688	93.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	109202	0.131
8015B (2MP-TMB)	59474	0.034
AKGas (nC6-nC10)	41003	0.033
NWGas (Tol-Nap)	132571	0.152 <i>Gpd</i>

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.937	0.004	23866	85.5	TFT(Surr)
13.627	0.000	42863	90.1	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
8.708	0.003	7550	4.22	Toluene
ND	---	---	---	Ethylbenzene
11.347	0.003	583	0.33	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

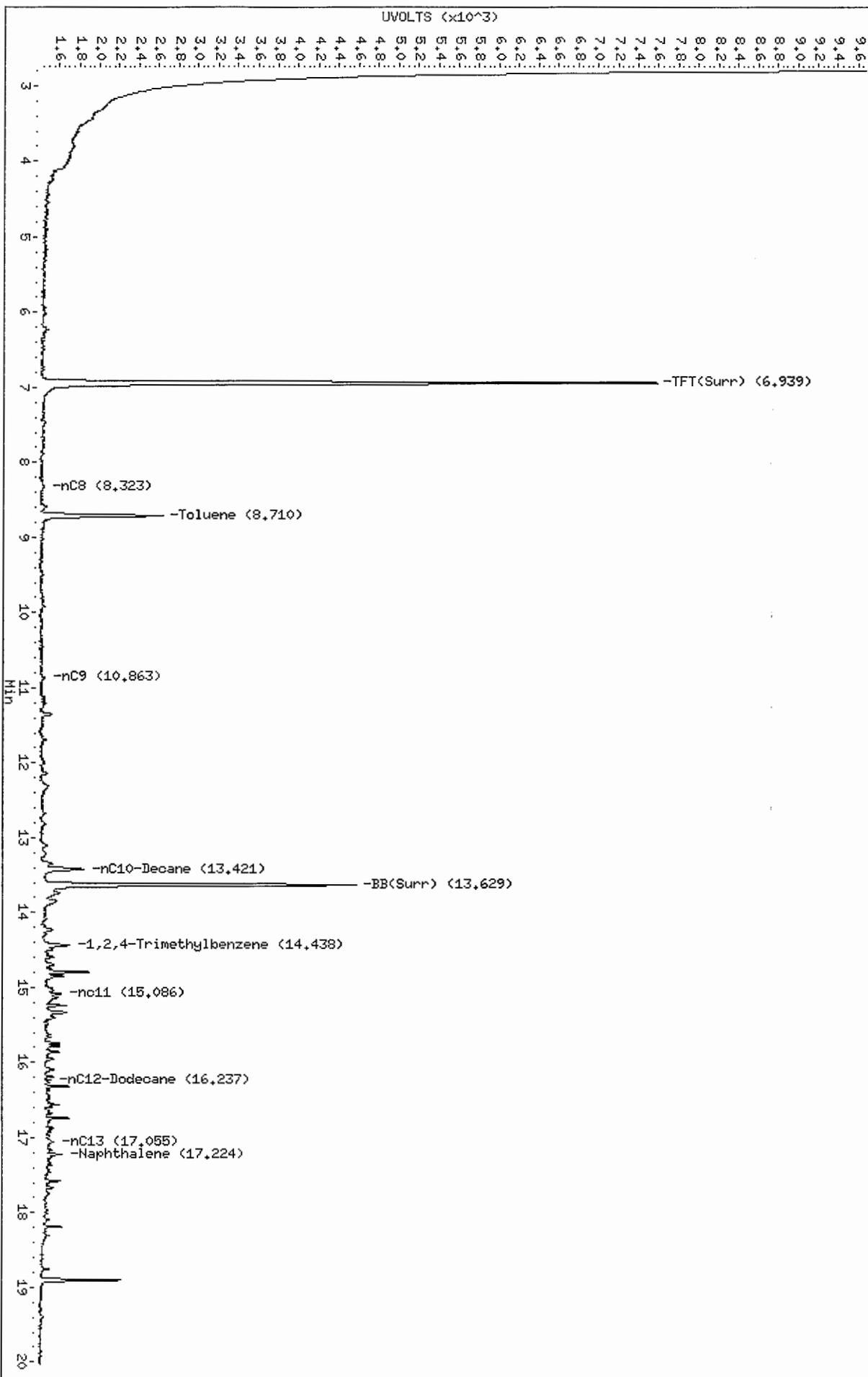
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080303-2.b/0303a018.d
Date: 03-MAR-2008 17:52
Client ID: TP-10-8
Sample Info: HK75E

Column phase: RTX 502-2 FID

/chem3/pid3.i/20080303-2.b/0303a018.d/0303a018.odr

Operator: PC
Column diameter: 0.18

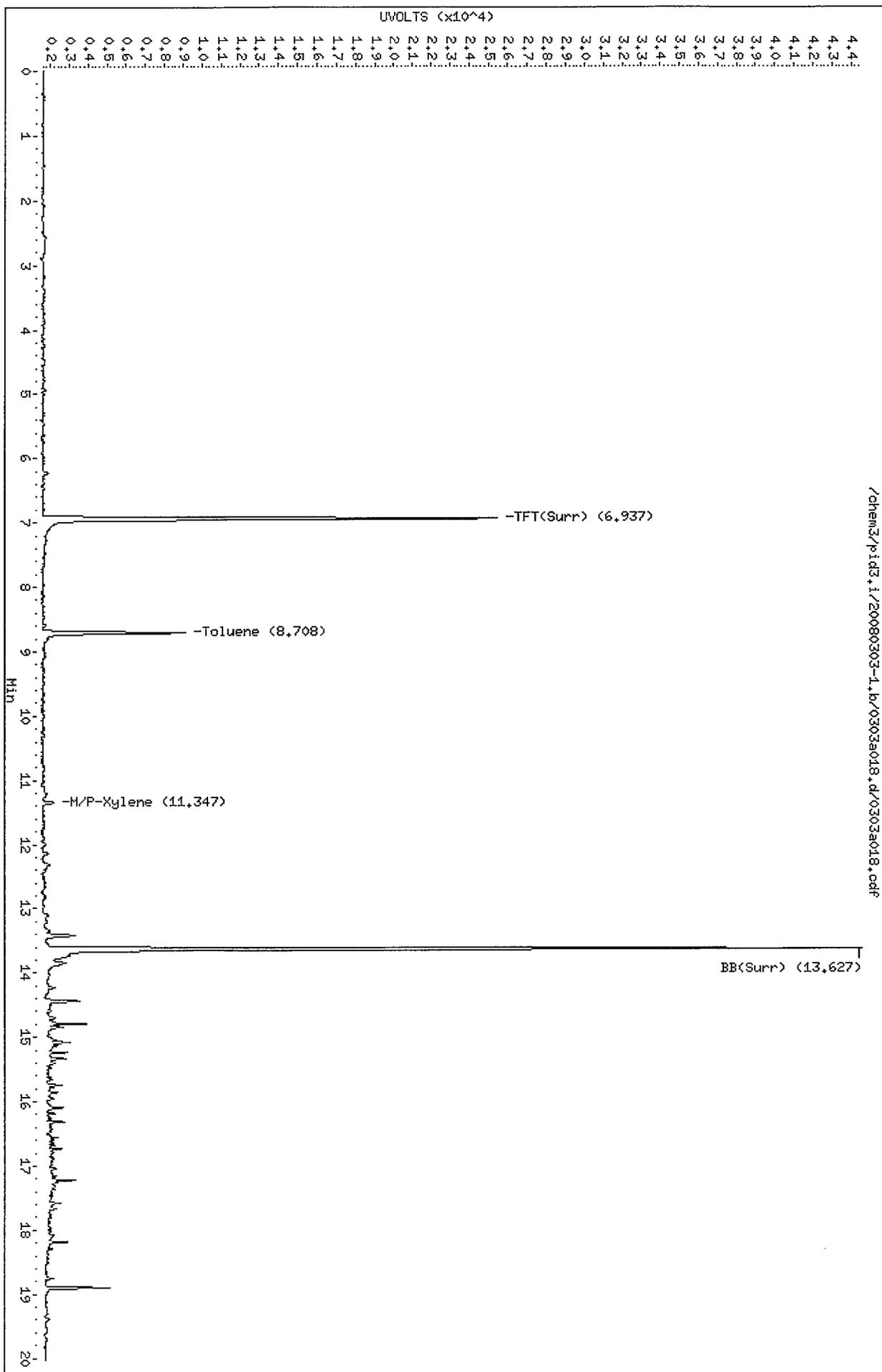


Data File: /chem2/pid3.i/20080303-1.b/0303a018.d
Date: 03-MAR-2008 17:52
Client ID: TP-10-8
Sample Info: HK75E

Column phase: RTX 502-2 PID

/chem2/pid3.i/20080303-1.b/0303a018.d/0303a018.cdf

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



PC
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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a019.d ARI ID: MK75F
Data file 2: /chem3/pid3.i/20080303-1.b/0303a019.d Client ID: TP-10-13
Method: /chem3/pid3.i/20080303-1.b/PIDB.m Injection Date: 03-MAR-2008 18:17
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.939	-0.009	6154	82051	87.7	TFT(Surr)
13.629	-0.009	3197	40151	94.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	196482	0.235
8015B (2MP-TMB)	93917	0.054
AKGas (nC6-nC10)	55230	0.045
NWGas (Tol-Nap)	237088	0.271 <i>gpc</i>

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.938	0.004	23784	85.2	TFT(Surr)
13.627	0.000	43139	90.7	BB(Surr)

AROMATICS (PID)

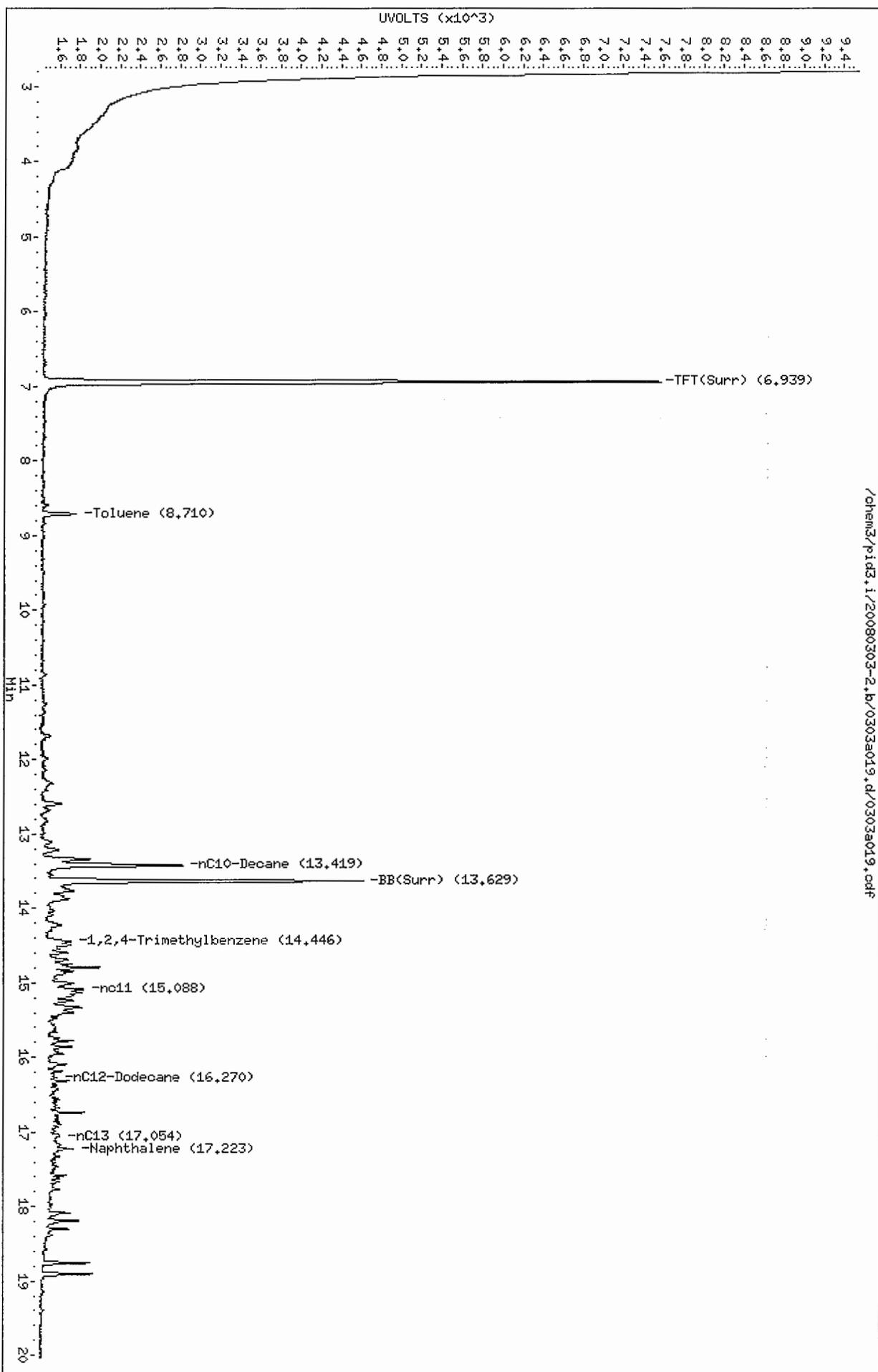
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
8.710	0.004	1984	1.11	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080303-2.b/0303a019.d
Date: 03-MAR-2008 18:17
Client ID: TP-10-13
Sample Info: HK75F

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18

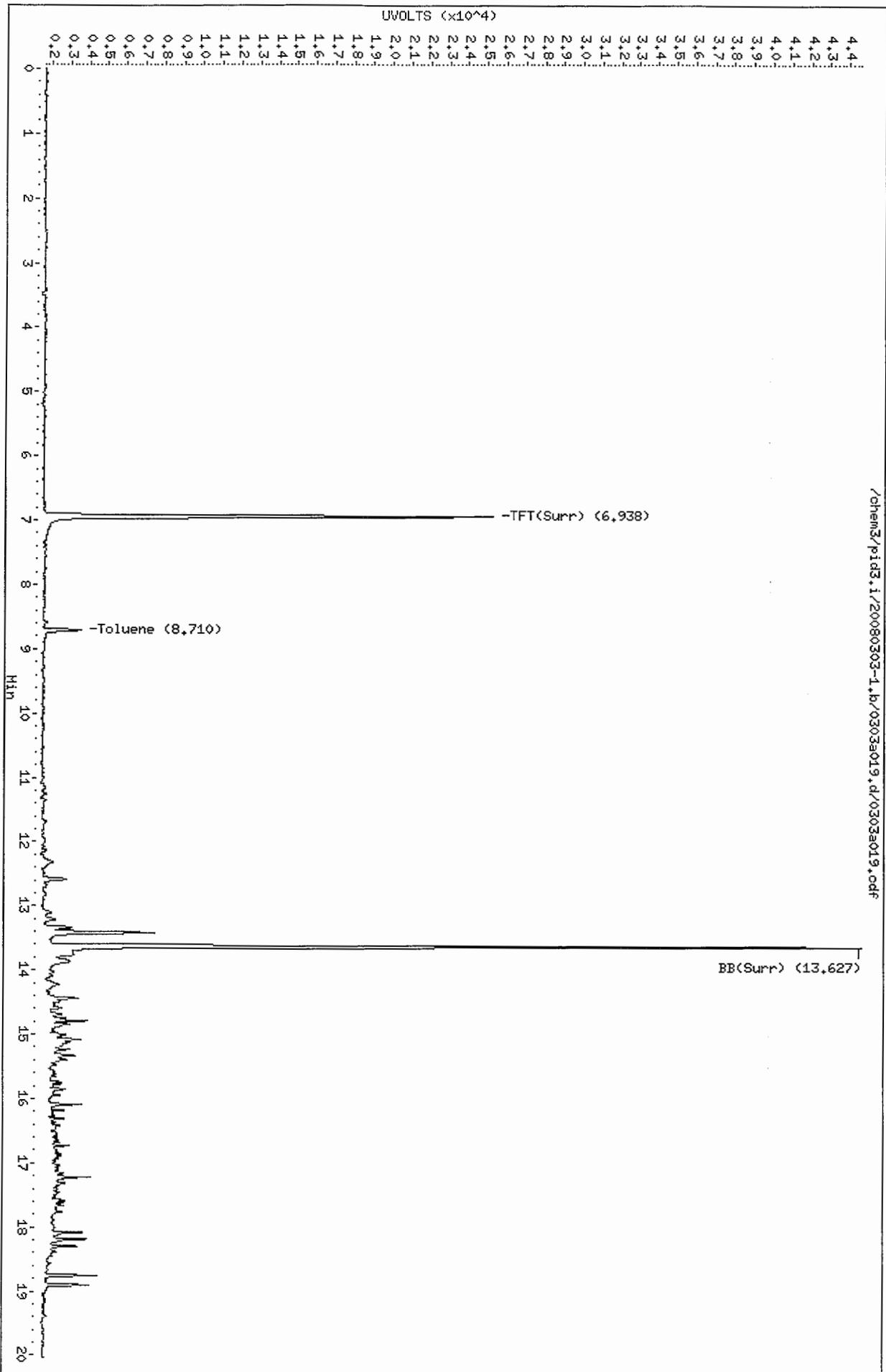


Data File: /chem3/pid3.i/20080303-1.b/0303a019.d
Date : 03-MAR-2008 18:17
Client ID: TP-10-13
Sample Info: MK75F

Column phase: RTX 502-2 PID

/chem3/pid3.i/20080303-1.b/0303a019.d/0303a019.odr

Operator: PC
Column diameter: 0.18



PC
3/4/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a020.d ARI ID: MK75G
Data file 2: /chem3/pid3.i/20080303-1.b/0303a020.d Client ID: TP-11-14
Method: /chem3/pid3.i/20080303-1.b/PIDB.m Injection Date: 03-MAR-2008 18:41
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.938	-0.010	6838	89938	97.5	TFT(Surr)
13.629	-0.009	3462	39218	102.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	4107	0.005
8015B (2MP-TMB)	2007	0.001
AKGas (nC6-nC10)	2006	0.002
NWGas (Tol-Nap)	5110	0.006

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.937	0.003	26252	94.0	TFT(Surr)
13.628	0.001	46841	98.5	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
8.709	0.004	448	0.25	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080303-2.b/0303a020.d
Date: 03-MAR-2008 18:41
Client ID: TP-11-14
Sample Info: HK75G

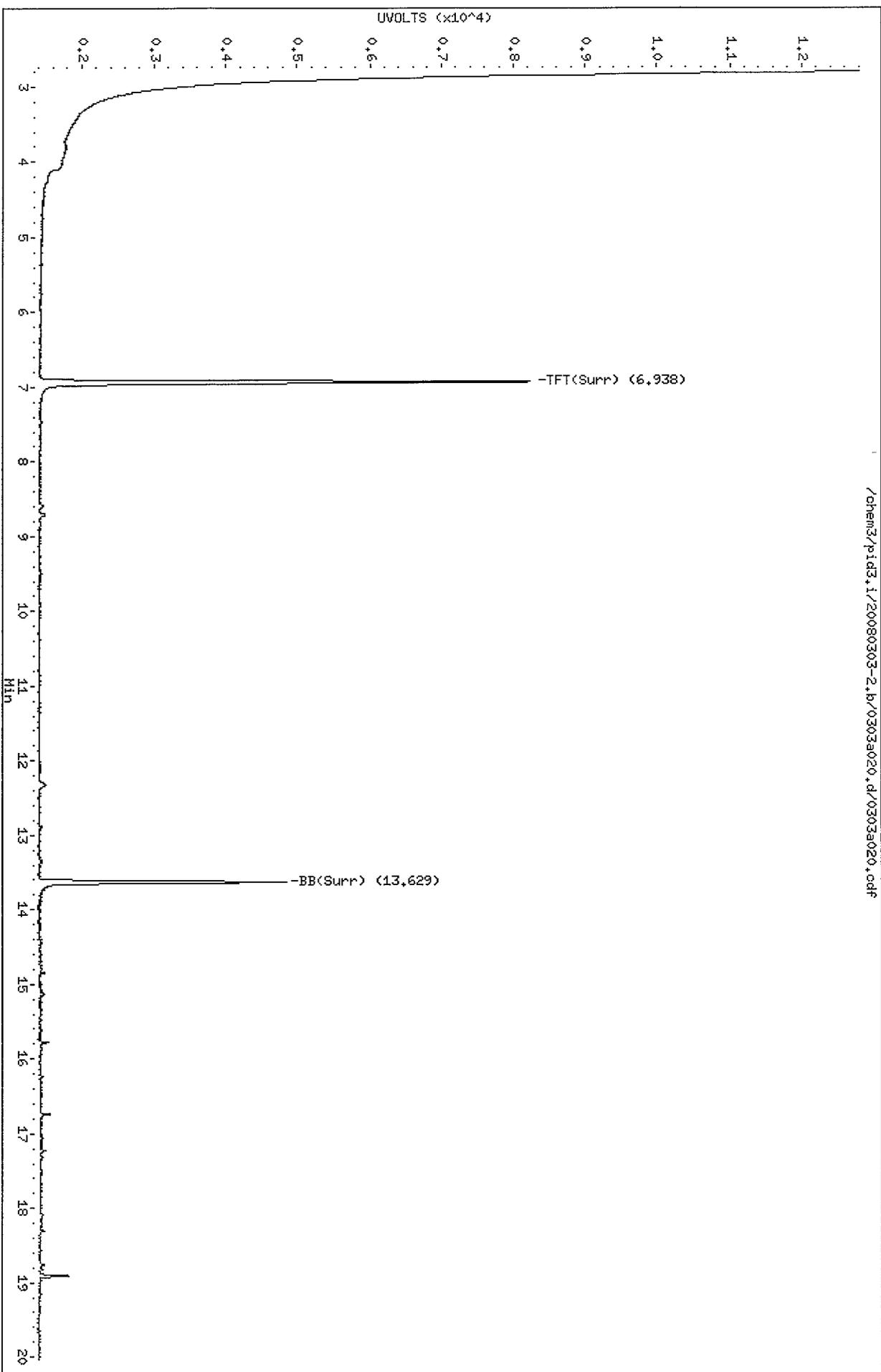
Column phase: RTX 502-2 FID

/chem3/pid3.i/20080303-2.b/0303a020.d/0303a020.cdf

Instrument: pid3.i

Operator: PC

Column diameter: 0.18

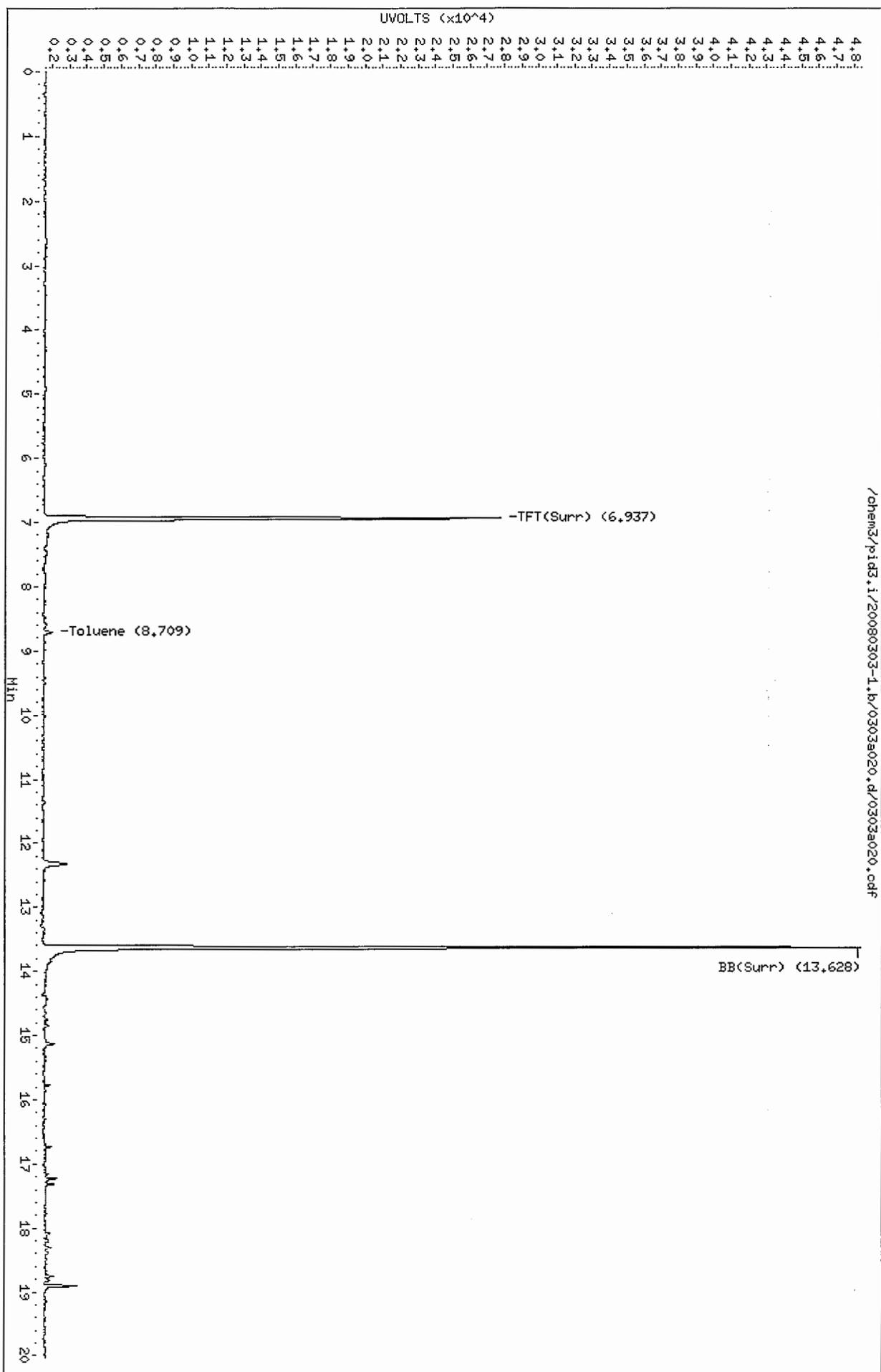


Data File: /chem3/pid3.i/20080303-1.b/0303a020.d
Date: 03-MAR-2008 18:44
Client ID: TP-11-14
Sample Info: HK75G

Column phase: RTX 502-2 PID

/chem3/pid3.i/20080303-1.b/0303a020.d/0303a020.odr

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



PC
3/4/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a021.d ARI ID: MK75H
Data file 2: /chem3/pid3.i/20080303-1.b/0303a021.d Client ID: TP-11-4
Method: /chem3/pid3.i/20080303-1.b/PIDB.m Injection Date: 03-MAR-2008 19:06
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.938	-0.010	6850	90449	97.6	TFT(Surr)
13.629	-0.009	3447	40205	102.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	49535	0.059
8015B (2MP-TMB)	30734	0.018
AKGas (nC6-nC10)	27485	0.022
NWGas (Tol-Nap)	49535	0.057

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.937	0.003	26390	94.5	TFT(Surr)
13.628	0.001	47005	98.8	BB(Surr)

AROMATICS (PID)

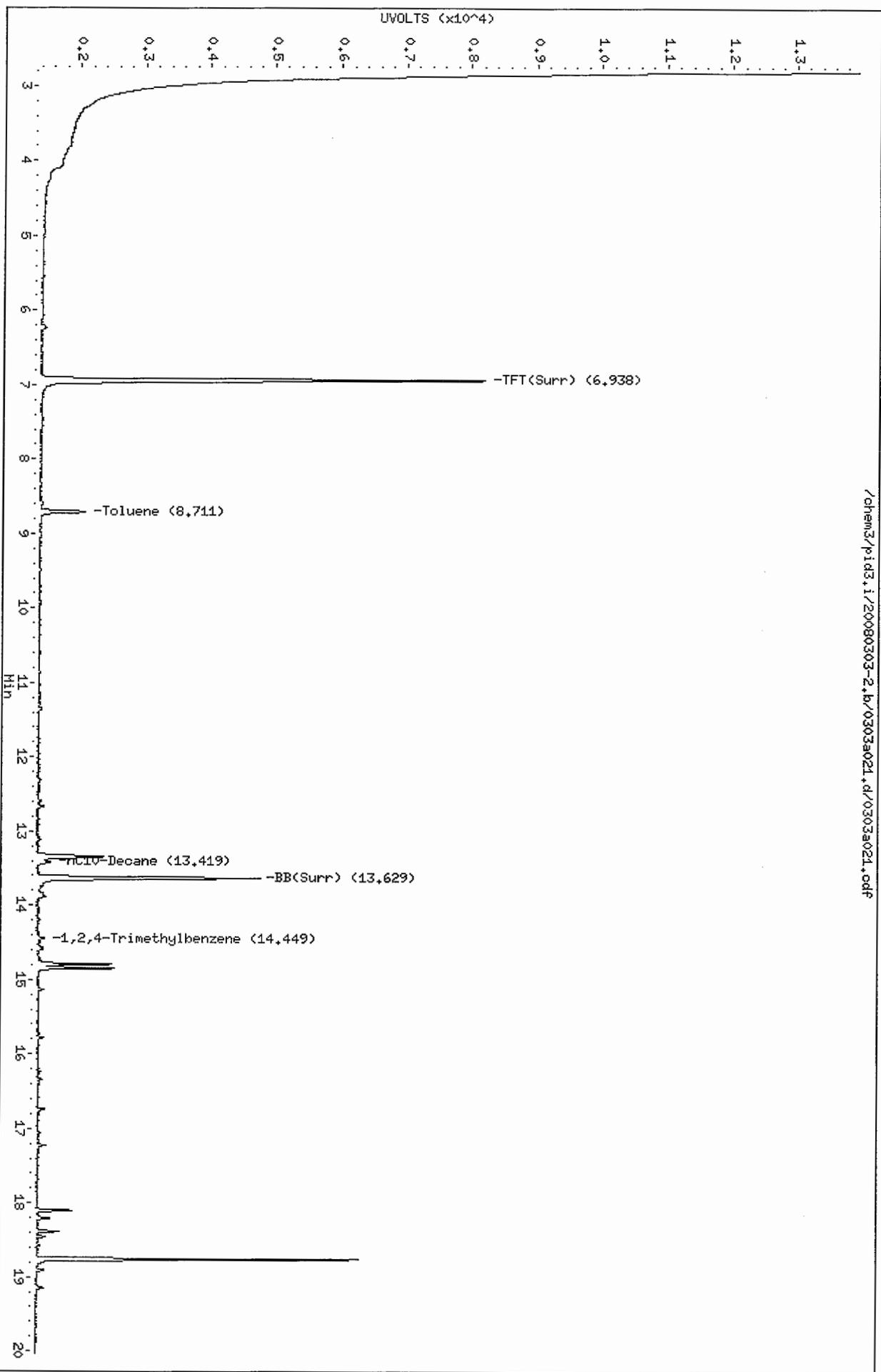
RT	Shift	Response	Amount	Compound
6.226	0.005	531	0.31	Benzene
8.708	0.003	4309	2.41	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3,i/20080303-2.b/0303a021.d
Date : 03-MAR-2008 19:06
Client ID: TP-11-4
Sample Info: HK75H

Column phase: RTX 502-2 FID

Instrument: pid3,i
Operator: PC
Column diameter: 0.18



Data File: /chem3/pid3.i/20080303-1.b/0303a021.d
Date: 03-MAR-2008 19:06
Client ID: TP-11-4
Sample Info: HK75H

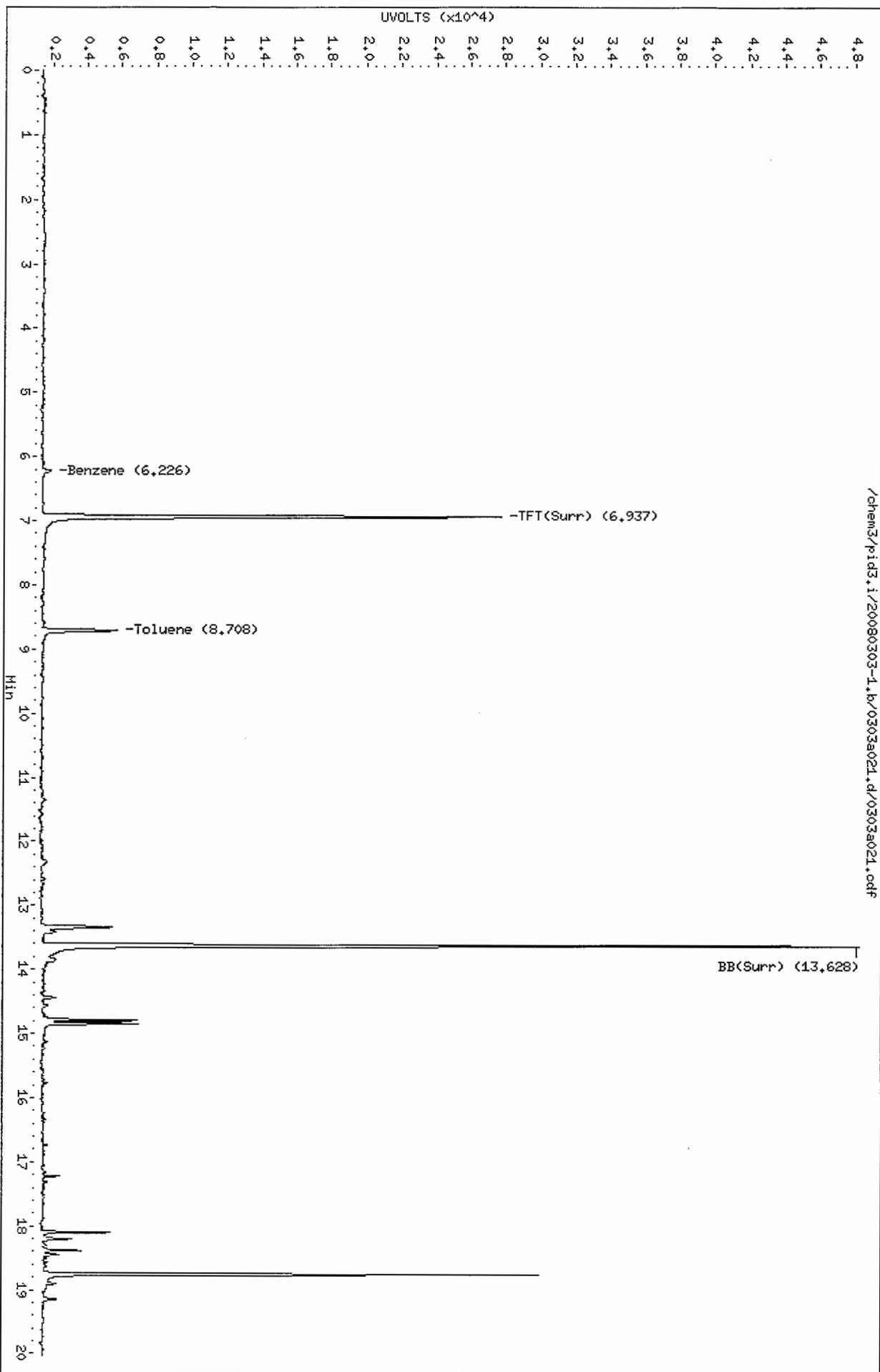
Column phase: RTX 502-2 PID

/chem3/pid3.i/20080303-1.b/0303a021.d/0303a021.cdf

Instrument: pid3.i

Operator: PC

Column diameter: 0.18



PL
3/4/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a022.d ARI ID: MK75I
Data file 2: /chem3/pid3.i/20080303-1.b/0303a022.d Client ID: TP-12-13
Method: /chem3/pid3.i/20080303-1.b/PIDB.m Injection Date: 03-MAR-2008 19:31
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.937	-0.011	6792	90752	96.8	TFT(Surr)
13.628	-0.010	3691	51147	109.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	1338546	1.603
8015B (2MP-TMB)	280974	0.160
AKGas (nC6-nC10)	125276	0.102
NWGas (Tol-Nap)	2420930	2.772 <i>gjed</i>

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.936	0.002	26001	93.1	TFT(Surr)
13.627	0.000	47397	99.7	BB(Surr)

AROMATICS (PID)

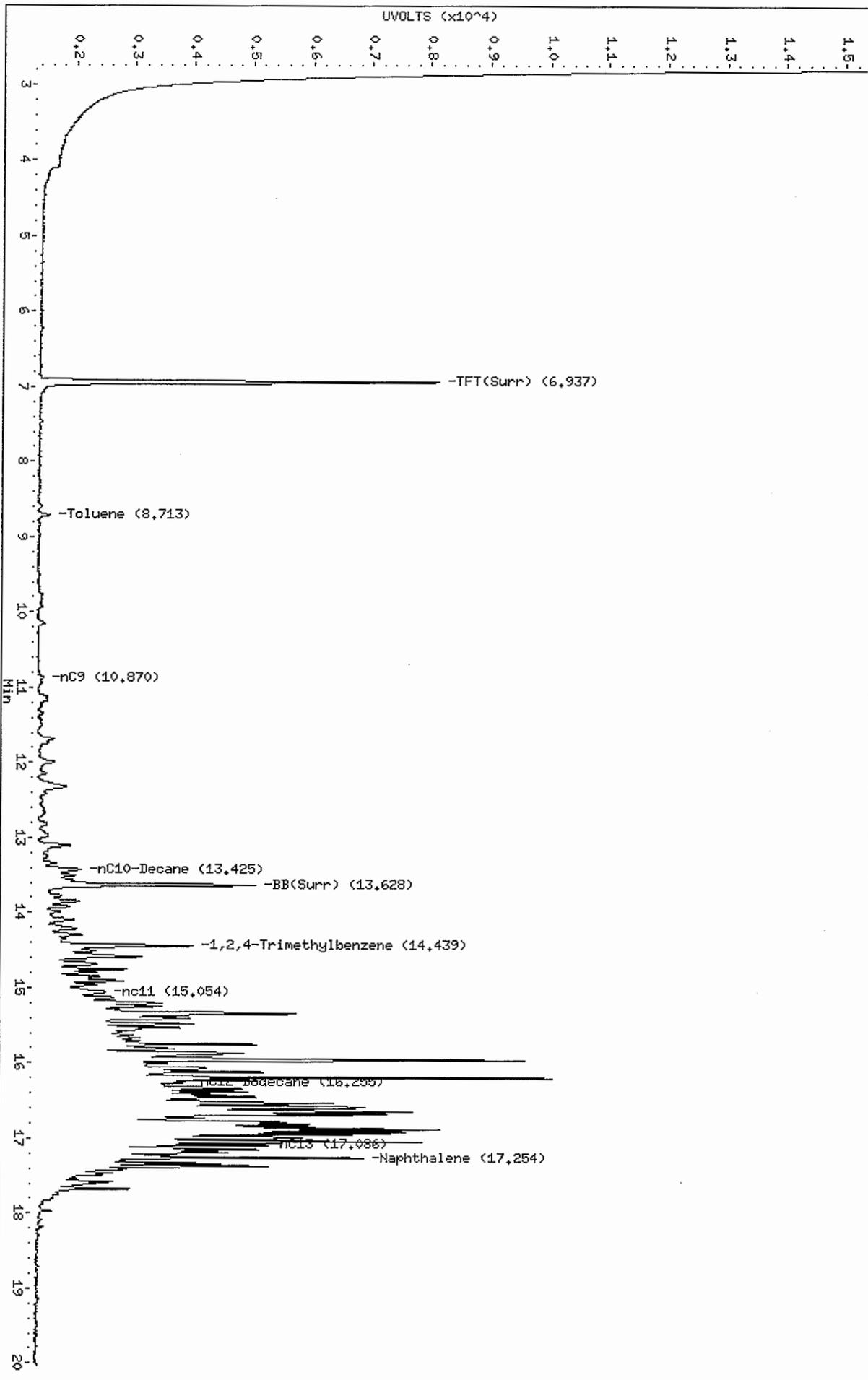
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
8.707	0.002	1239	0.69	Toluene
ND	---	---	---	Ethylbenzene
11.343	-0.001	709	0.40	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080303-2.b/0303a022.d
Date: 03-MAR-2008 19:31
Client ID: TP-12-13
Sample Info: HK751
Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18

/chem3/pid3.i/20080303-2.b/0303a022.d/0303a022.cdf

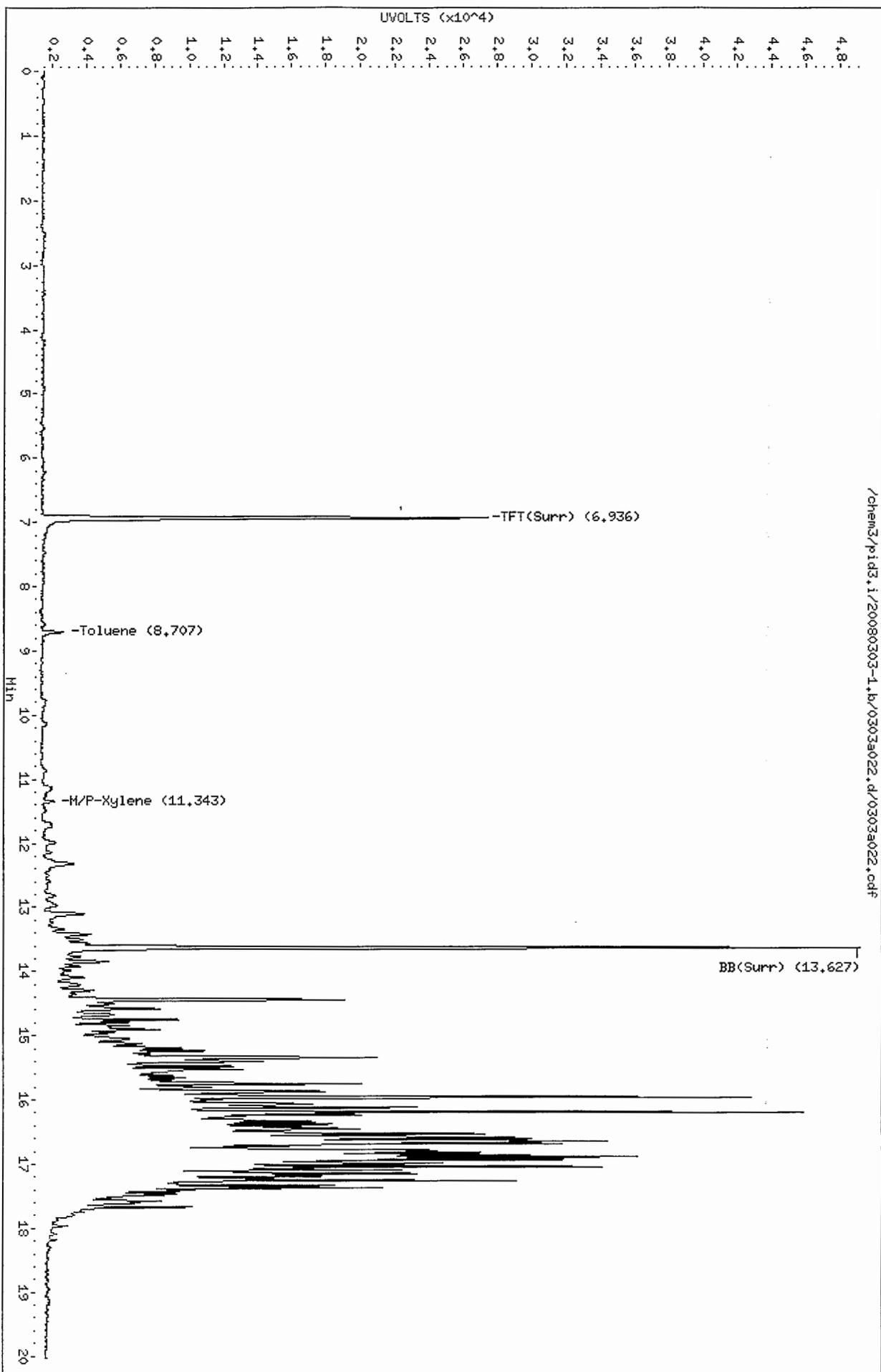


Data File: /chem3/pid3.i/20080303-1.b/0303A022.d
Date: 03-MAR-2008 19:31
Client ID: TP-12-13
Sample Info: MK751

Column phase: RTX 502-2 PID

/chem3/pid3.i/20080303-1.b/0303A022.d/0303A022.odf

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



RZ
3/4/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a023.d ARI ID: MK75J
Data file 2: /chem3/pid3.i/20080303-1.b/0303a023.d Client ID: TP-12D-13
Method: /chem3/pid3.i/20080303-1.b/PIDB.m Injection Date: 03-MAR-2008 19:56
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.938	-0.009	6491	88444	92.5	TFT(Surr)
13.630	-0.008	3888	74682	115.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	1977648	2.369
8015B (2MP-TMB)	453340	0.258
AKGas (nC6-nC10)	228843	0.187
NWGas (Tol-Nap)	3216889	3.683 <i>gpd</i>

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.937	0.004	25366	90.8	TFT(Surr)
13.628	0.002	47578	100.1	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
8.710	0.005	410	0.23	Toluene
11.166	-0.041	1266	0.78	Ethylbenzene
ND	---	---	---	M/P-Xylene
12.141	0.006	1049	0.70	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

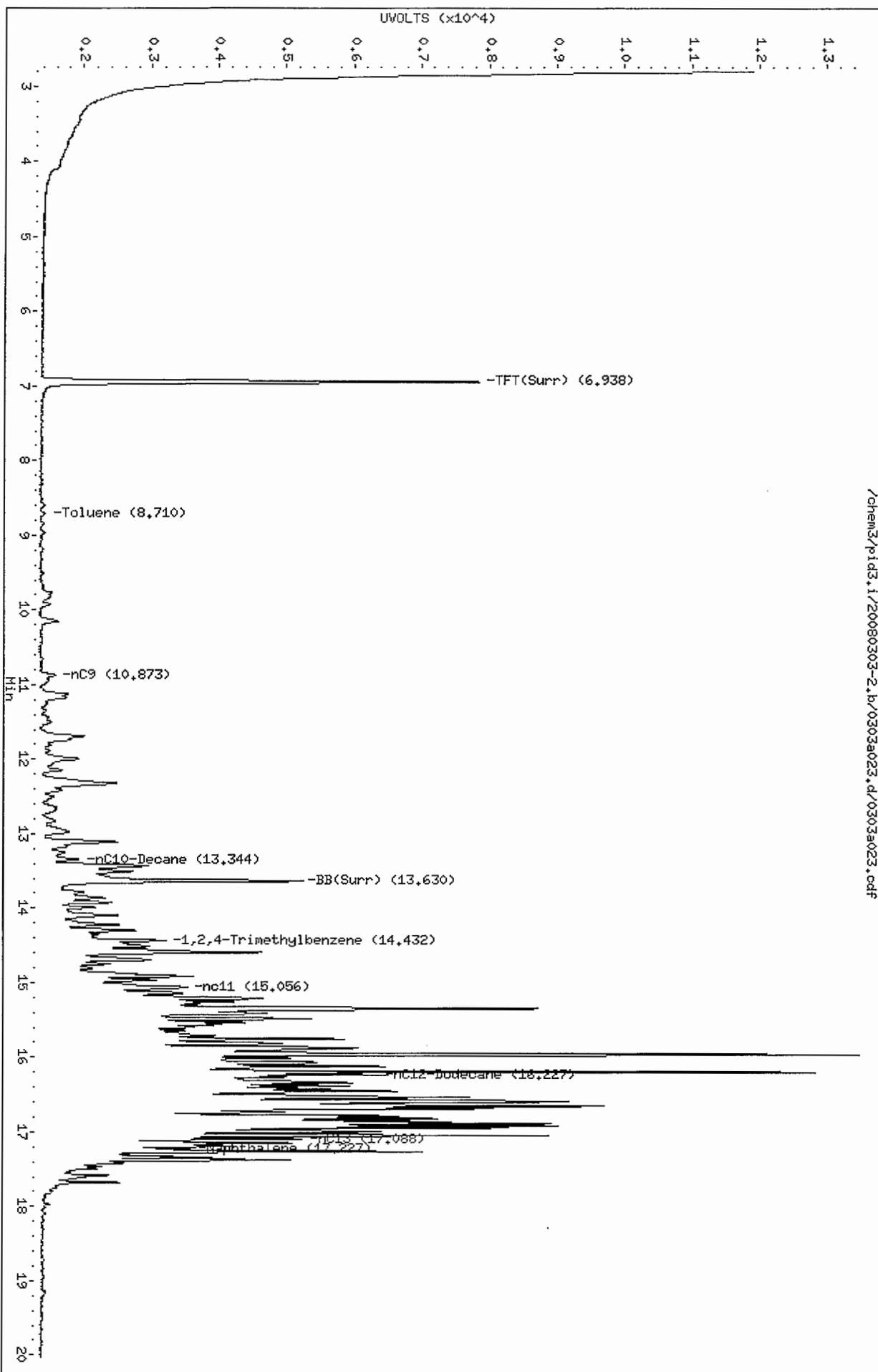
Data File: /chem3/pid3.1/20080303-2.b/0303a023.d
Date: 03-MAR-2008 19:56
Client ID: TP-12D-13
Sample Info: MK75J

Column phase: RTX 502-2 FID

/chem3/pid3.1/20080303-2.b/0303a023.d/0303a023.cdf

Instrument: pid3.1

Operator: PC
Column diameter: 0.18

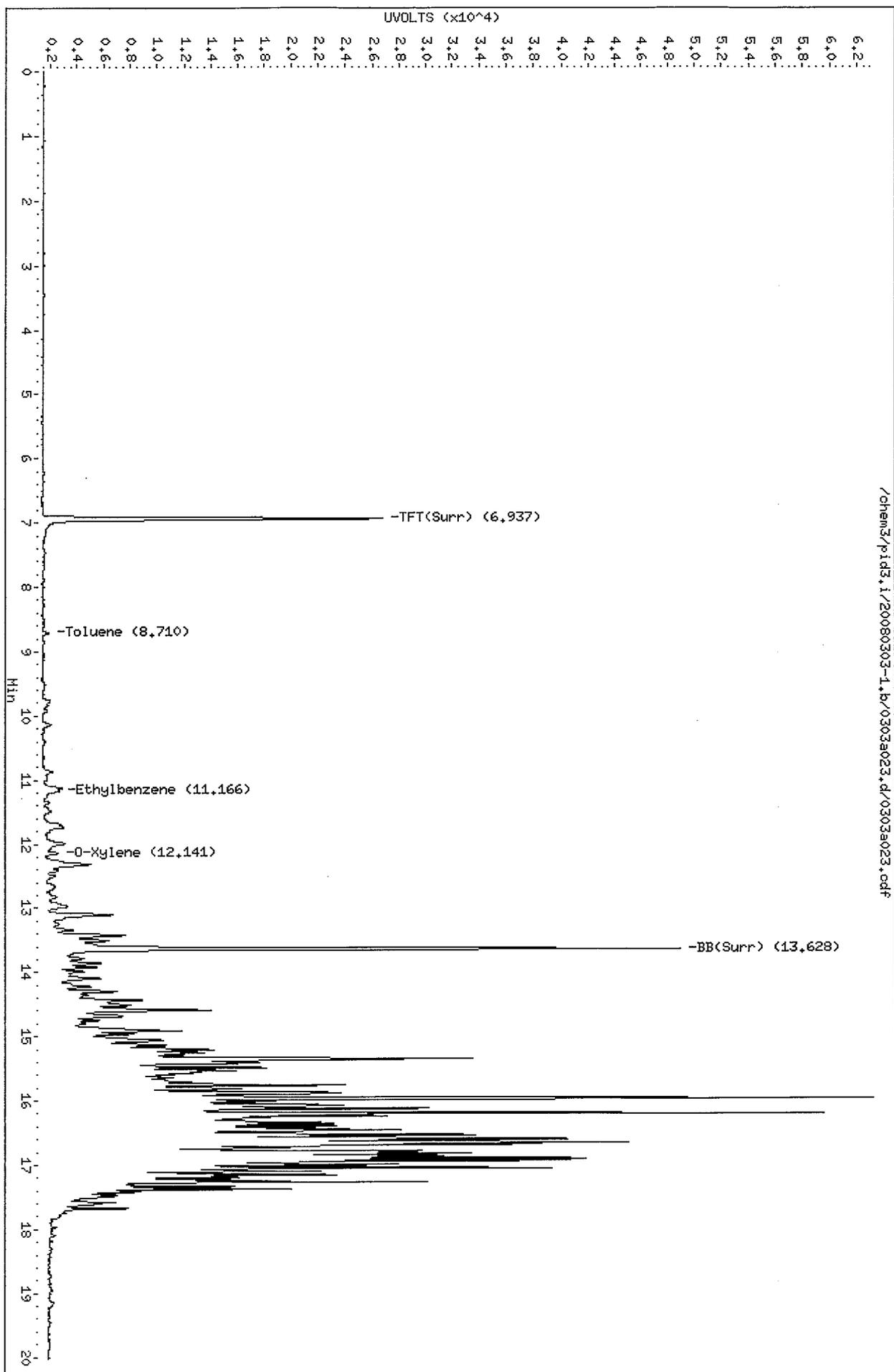


Data File: /chem3/pid3.i/20080303-1.b/0303a023.d
Date: 03-MAR-2008 19:56
Client ID: TP-12D-13
Sample Info: HK75J

Column phase: RTX 502-2 PID

/chem3/pid3.i/20080303-1.b/0303a023.d/0303a023.pdf

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



PC
3/4/08

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20080303-2.b/0303a024.d ARI ID: MK75K
Data file 2: /chem3/pid3.i/20080303-1.b/0303a024.d Client ID: TP-13-8
Method: /chem3/pid3.i/20080303-1.b/PIDB.m Injection Date: 03-MAR-2008 20:20
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 17-OCT-2007 Dilution Factor: 1.000
BETX Ical Date: 17-OCT-2007

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
6.941	-0.007	6156	82025	87.7	TFT(Surr)
13.630	-0.008	3222	37705	95.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	133105	0.159
8015B (2MP-TMB)	31232	0.018
AKGas (nC6-nC10)	19985	0.016
NWGas (Tol-Nap)	271046	0.310 <i>gpd</i>

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
6.939	0.006	23934	85.7	TFT(Surr)
13.628	0.001	44181	92.9	BB(Surr)

AROMATICS (PID)

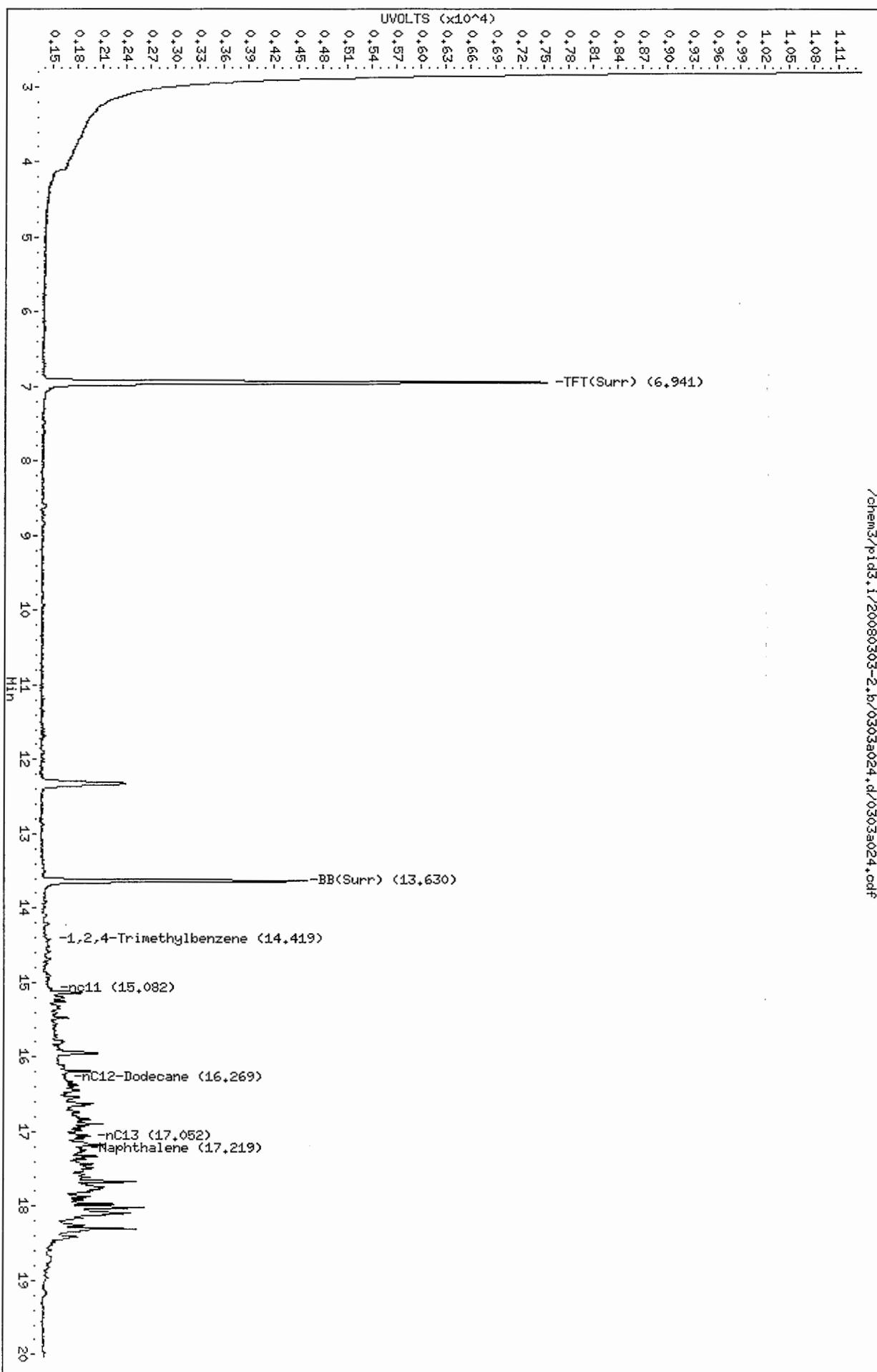
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20080303-2.b/0303a024.d
Date: 03-MAR-2008 20:20
Client ID: TP-13-8
Sample Info: HK75K

Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: PC
Column diameter: 0.18



Data File: /chem3/pid3.i/20080303-1.b/0303a024.d
Date: 03-MAR-2008 20:20
Client ID: TP-13-8
Sample Info: HK75K

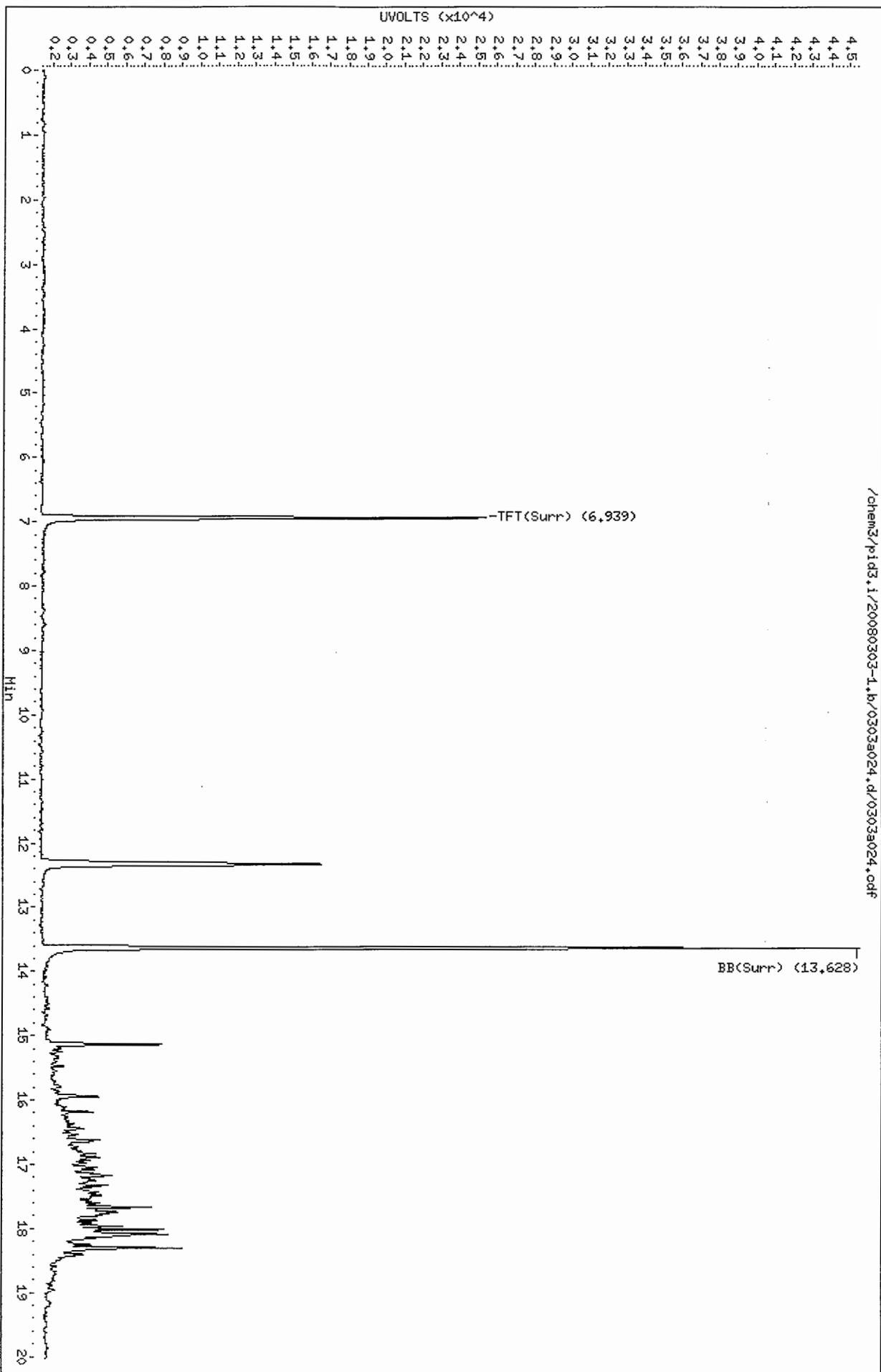
Column phase: RTX 502-2 PID

/chem3/pid3.i/20080303-1.b/0303a024.d/0303a024.odf

Instrument: pid3.i

Operator: PC

Column diameter: 0.18



ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: MB-030608
METHOD BLANK

Lab Sample ID: MB-030608
LIMS ID: 08-3937
Matrix: Soil
Data Release Authorized: VTS
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: NA
Date Received: NA

Date Extracted: 03/06/08
Date Analyzed: 03/08/08 04:35
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	67	< 67 U
111-44-4	Bis-(2-Chloroethyl) Ether	67	< 67 U
95-57-8	2-Chlorophenol	67	< 67 U
541-73-1	1,3-Dichlorobenzene	67	< 67 U
106-46-7	1,4-Dichlorobenzene	67	< 67 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	67	< 67 U
95-48-7	2-Methylphenol	67	< 67 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	67	< 67 U
106-44-5	4-Methylphenol	67	< 67 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	67	< 67 U
98-95-3	Nitrobenzene	67	< 67 U
78-59-1	Isophorone	67	< 67 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	67	< 67 U
65-85-0	Benzoic Acid	670	< 670 U
111-91-1	bis(2-Chloroethoxy) Methane	67	< 67 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	67	< 67 U
91-20-3	Naphthalene	67	< 67 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	67	< 67 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	67	< 67 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	67	< 67 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: MB-030608
METHOD BLANK

Lab Sample ID: MB-030608
LIMS ID: 08-3937
Matrix: Soil
Date Analyzed: 03/08/08 04:35

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	67	< 67 U
51-28-5	2,4-Dinitrophenol	670	< 670 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	67	< 67 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	67	< 67 U
7005-72-3	4-Chlorophenyl-phenylether	67	< 67 U
86-73-7	Fluorene	67	< 67 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670	< 670 U
86-30-6	N-Nitrosodiphenylamine	67	< 67 U
101-55-3	4-Bromophenyl-phenylether	67	< 67 U
118-74-1	Hexachlorobenzene	67	< 67 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	67	< 67 U
86-74-8	Carbazole	67	< 67 U
120-12-7	Anthracene	67	< 67 U
84-74-2	Di-n-Butylphthalate	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
85-68-7	Butylbenzylphthalate	67	< 67 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo (a) anthracene	67	< 67 U
117-81-7	bis (2-Ethylhexyl) phthalate	67	< 67 U
218-01-9	Chrysene	67	< 67 U
117-84-0	Di-n-Octyl phthalate	67	< 67 U
205-99-2	Benzo (b) fluoranthene	67	< 67 U
207-08-9	Benzo (k) fluoranthene	67	< 67 U
50-32-8	Benzo (a) pyrene	67	< 67 U
193-39-5	Indeno (1, 2, 3-cd) pyrene	67	< 67 U
53-70-3	Dibenz (a, h) anthracene	67	< 67 U
191-24-2	Benzo (g, h, i) perylene	67	< 67 U
90-12-0	1-Methylnaphthalene	67	< 67 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	67.2%	2-Fluorobiphenyl	67.2%
d14-p-Terphenyl	75.2%	d4-1,2-Dichlorobenzene	69.2%
d5-Phenol	69.9%	2-Fluorophenol	24.4%
2,4,6-Tribromophenol	75.5%	d4-2-Chlorophenol	67.5%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: TP-8-12.5
SAMPLE

Lab Sample ID: MK75A
LIMS ID: 08-3936
Matrix: Soil
Data Release Authorized: VTS
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/08/08 05:44
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.56 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 28.0%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: TP-8-12.5
SAMPLE

Lab Sample ID: MK75A
LIMS ID: 08-3936
Matrix: Soil
Date Analyzed: 03/08/08 05:44

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo (a) anthracene	66	< 66 U
117-81-7	bis (2-Ethylhexyl) phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo (b) fluoranthene	66	< 66 U
207-08-9	Benzo (k) fluoranthene	66	< 66 U
50-32-8	Benzo (a) pyrene	66	< 66 U
193-39-5	Indeno (1,2,3-cd) pyrene	66	< 66 U
53-70-3	Dibenz (a,h) anthracene	66	< 66 U
191-24-2	Benzo (g,h,i) perylene	66	< 66 U
90-12-0	1-Methylnaphthalene	66	< 66 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.8%	2-Fluorobiphenyl	60.8%
d14-p-Terphenyl	66.0%	d4-1,2-Dichlorobenzene	59.6%
d5-Phenol	60.0%	2-Fluorophenol	18.3%
2,4,6-Tribromophenol	67.7%	d4-2-Chlorophenol	60.0%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: TP-8-2
SAMPLE

Lab Sample ID: MK75B
LIMS ID: 08-3937
Matrix: Soil
Data Release Authorized: **VTS**
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/08/08 06:19
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.55 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 31.5%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	120
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: TP-8-2
SAMPLE

Lab Sample ID: MK75B
LIMS ID: 08-3937
Matrix: Soil
Date Analyzed: 03/08/08 06:19

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo (a) anthracene	66	< 66 U
117-81-7	bis (2-Ethylhexyl) phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo (b) fluoranthene	66	< 66 U
207-08-9	Benzo (k) fluoranthene	66	< 66 U
50-32-8	Benzo (a) pyrene	66	< 66 U
193-39-5	Indeno (1,2,3-cd) pyrene	66	< 66 U
53-70-3	Dibenz (a,h) anthracene	66	< 66 U
191-24-2	Benzo (g,h,i) perylene	66	< 66 U
90-12-0	1-Methylnaphthalene	66	< 66 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	51.2%	2-Fluorobiphenyl	51.6%
d14-p-Terphenyl	48.4%	d4-1,2-Dichlorobenzene	48.0%
d5-Phenol	48.0%	2-Fluorophenol	15.4%
2,4,6-Tribromophenol	60.0%	d4-2-Chlorophenol	49.6%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: TP-8-2
MATRIX SPIKE

Lab Sample ID: MK75B
LIMS ID: 08-3937
Matrix: Soil
Data Release Authorized: *VJS*
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/08/08 06:54
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.59 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 31.5%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	---
111-44-4	Bis-(2-Chloroethyl) Ether	66	---
95-57-8	2-Chlorophenol	66	---
541-73-1	1,3-Dichlorobenzene	66	---
106-46-7	1,4-Dichlorobenzene	66	---
100-51-6	Benzyl Alcohol	330	---
95-50-1	1,2-Dichlorobenzene	66	---
95-48-7	2-Methylphenol	66	---
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	---
106-44-5	4-Methylphenol	66	---
621-64-7	N-Nitroso-Di-N-Propylamine	330	---
67-72-1	Hexachloroethane	66	---
98-95-3	Nitrobenzene	66	---
78-59-1	Isophorone	66	---
88-75-5	2-Nitrophenol	330	---
105-67-9	2,4-Dimethylphenol	66	---
65-85-0	Benzoic Acid	660	---
111-91-1	bis(2-Chloroethoxy) Methane	66	---
120-83-2	2,4-Dichlorophenol	330	---
120-82-1	1,2,4-Trichlorobenzene	66	---
91-20-3	Naphthalene	66	---
106-47-8	4-Chloroaniline	330	---
87-68-3	Hexachlorobutadiene	66	---
59-50-7	4-Chloro-3-methylphenol	330	---
91-57-6	2-Methylnaphthalene	66	---
77-47-4	Hexachlorocyclopentadiene	330	---
88-06-2	2,4,6-Trichlorophenol	330	---
95-95-4	2,4,5-Trichlorophenol	330	---
91-58-7	2-Chloronaphthalene	66	---
88-74-4	2-Nitroaniline	330	---
131-11-3	Dimethylphthalate	66	---
208-96-8	Acenaphthylene	66	---

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: TP-8-2
MATRIX SPIKE

Lab Sample ID: MK75B
LIMS ID: 08-3937
Matrix: Soil
Date Analyzed: 03/08/08 06:54

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	330	---
83-32-9	Acenaphthene	66	---
51-28-5	2,4-Dinitrophenol	660	---
100-02-7	4-Nitrophenol	330	---
132-64-9	Dibenzofuran	66	---
606-20-2	2,6-Dinitrotoluene	330	---
121-14-2	2,4-Dinitrotoluene	330	---
84-66-2	Diethylphthalate	66	---
7005-72-3	4-Chlorophenyl-phenylether	66	---
86-73-7	Fluorene	66	---
100-01-6	4-Nitroaniline	330	---
534-52-1	4,6-Dinitro-2-Methylphenol	660	---
86-30-6	N-Nitrosodiphenylamine	66	---
101-55-3	4-Bromophenyl-phenylether	66	---
118-74-1	Hexachlorobenzene	66	---
87-86-5	Pentachlorophenol	330	---
85-01-8	Phenanthrene	66	---
86-74-8	Carbazole	66	---
120-12-7	Anthracene	66	---
84-74-2	Di-n-Butylphthalate	66	---
206-44-0	Fluoranthene	66	---
129-00-0	Pyrene	66	---
85-68-7	Butylbenzylphthalate	66	---
91-94-1	3,3'-Dichlorobenzidine	330	---
56-55-3	Benzo(a)anthracene	66	---
117-81-7	bis(2-Ethylhexyl)phthalate	66	---
218-01-9	Chrysene	66	---
117-84-0	Di-n-Octyl phthalate	66	---
205-99-2	Benzo(b)fluoranthene	66	---
207-08-9	Benzo(k)fluoranthene	66	---
50-32-8	Benzo(a)pyrene	66	---
193-39-5	Indeno(1,2,3-cd)pyrene	66	---
53-70-3	Dibenz(a,h)anthracene	66	---
191-24-2	Benzo(g,h,i)perylene	66	---
90-12-0	1-Methylnaphthalene	66	---

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	56.0%	2-Fluorobiphenyl	54.8%
d14-p-Terphenyl	61.2%	d4-1,2-Dichlorobenzene	54.8%
d5-Phenol	58.9%	2-Fluorophenol	16.1%
2,4,6-Tribromophenol	70.7%	d4-2-Chlorophenol	57.1%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: TP-8-2
MATRIX SPIKE DUPLICATE

Lab Sample ID: MK75B
LIMS ID: 08-3937
Matrix: Soil
Data Release Authorized: *VTS*
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/08/08 07:28
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.58 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 31.5%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	---
111-44-4	Bis-(2-Chloroethyl) Ether	66	---
95-57-8	2-Chlorophenol	66	---
541-73-1	1,3-Dichlorobenzene	66	---
106-46-7	1,4-Dichlorobenzene	66	---
100-51-6	Benzyl Alcohol	330	---
95-50-1	1,2-Dichlorobenzene	66	---
95-48-7	2-Methylphenol	66	---
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	---
106-44-5	4-Methylphenol	66	---
621-64-7	N-Nitroso-Di-N-Propylamine	330	---
67-72-1	Hexachloroethane	66	---
98-95-3	Nitrobenzene	66	---
78-59-1	Isophorone	66	---
88-75-5	2-Nitrophenol	330	---
105-67-9	2,4-Dimethylphenol	66	---
65-85-0	Benzoic Acid	660	---
111-91-1	bis(2-Chloroethoxy) Methane	66	---
120-83-2	2,4-Dichlorophenol	330	---
120-82-1	1,2,4-Trichlorobenzene	66	---
91-20-3	Naphthalene	66	---
106-47-8	4-Chloroaniline	330	---
87-68-3	Hexachlorobutadiene	66	---
59-50-7	4-Chloro-3-methylphenol	330	---
91-57-6	2-Methylnaphthalene	66	---
77-47-4	Hexachlorocyclopentadiene	330	---
88-06-2	2,4,6-Trichlorophenol	330	---
95-95-4	2,4,5-Trichlorophenol	330	---
91-58-7	2-Chloronaphthalene	66	---
88-74-4	2-Nitroaniline	330	---
131-11-3	Dimethylphthalate	66	---
208-96-8	Acenaphthylene	66	---

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: TP-8-2
MATRIX SPIKE DUPLICATE

Lab Sample ID: MK75B
LIMS ID: 08-3937
Matrix: Soil
Date Analyzed: 03/08/08 07:28

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	330	---
83-32-9	Acenaphthene	66	---
51-28-5	2,4-Dinitrophenol	660	---
100-02-7	4-Nitrophenol	330	---
132-64-9	Dibenzofuran	66	---
606-20-2	2,6-Dinitrotoluene	330	---
121-14-2	2,4-Dinitrotoluene	330	---
84-66-2	Diethylphthalate	66	---
7005-72-3	4-Chlorophenyl-phenylether	66	---
86-73-7	Fluorene	66	---
100-01-6	4-Nitroaniline	330	---
534-52-1	4,6-Dinitro-2-Methylphenol	660	---
86-30-6	N-Nitrosodiphenylamine	66	---
101-55-3	4-Bromophenyl-phenylether	66	---
118-74-1	Hexachlorobenzene	66	---
87-86-5	Pentachlorophenol	330	---
85-01-8	Phenanthrene	66	---
86-74-8	Carbazole	66	---
120-12-7	Anthracene	66	---
84-74-2	Di-n-Butylphthalate	66	---
206-44-0	Fluoranthene	66	---
129-00-0	Pyrene	66	---
85-68-7	Butylbenzylphthalate	66	---
91-94-1	3,3'-Dichlorobenzidine	330	---
56-55-3	Benzo (a) anthracene	66	---
117-81-7	bis (2-Ethylhexyl) phthalate	66	---
218-01-9	Chrysene	66	---
117-84-0	Di-n-Octyl phthalate	66	---
205-99-2	Benzo (b) fluoranthene	66	---
207-08-9	Benzo (k) fluoranthene	66	---
50-32-8	Benzo (a) pyrene	66	---
193-39-5	Indeno (1,2,3-cd) pyrene	66	---
53-70-3	Dibenz (a,h) anthracene	66	---
191-24-2	Benzo (g,h,i) perylene	66	---
90-12-0	1-Methylnaphthalene	66	---

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	58.4%	2-Fluorobiphenyl	54.4%
d14-p-Terphenyl	66.0%	d4-1,2-Dichlorobenzene	55.6%
d5-Phenol	59.5%	2-Fluorophenol	19.7%
2,4,6-Tribromophenol	67.5%	d4-2-Chlorophenol	59.5%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: TP-8-2
MS/MSD

Lab Sample ID: MK75B
LIMS ID: 08-3937
Matrix: Soil
Data Release Authorized: **UTS**
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted MS/MSD: 03/06/08
Date Analyzed MS: 03/08/08 06:54
MSD: 03/08/08 07:28
Instrument/Analyst MS: NT4/LJR
MSD: NT4/LJR
GPC Cleanup: NO

Sample Amount MS: 7.59 g-dry-wt
MSD: 7.58 g-dry-wt
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Percent Moisture: 31.5 %

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	< 66.2	874	1650	53.0%	901	1650	54.6%	3.0%
Bis-(2-Chloroethyl) Ether	< 66.2	899	1650	54.5%	974	1650	59.0%	8.0%
2-Chlorophenol	< 66.2	914	1650	55.4%	956	1650	57.9%	4.5%
1,3-Dichlorobenzene	< 66.2	833	1650	50.5%	860	1650	52.1%	3.2%
1,4-Dichlorobenzene	< 66.2	832	1650	50.4%	869	1650	52.7%	4.4%
Benzyl Alcohol	< 331	1460	3290	44.4%	1680	3300	50.9%	14.0%
1,2-Dichlorobenzene	< 66.2	872	1650	52.8%	894	1650	54.2%	2.5%
2-Methylphenol	< 66.2	1060	1650	64.2%	1060	1650	64.2%	0.0%
2,2'-Oxybis(1-Chloropropane	< 66.2	908	1650	55.0%	927	1650	56.2%	2.1%
4-Methylphenol	117	2090	3290	60.0%	2180	3300	62.5%	4.2%
N-Nitroso-Di-N-Propylamine	< 331	962	1650	58.3%	1010	1650	61.2%	4.9%
Hexachloroethane	< 66.2	845	1650	51.2%	850	1650	51.5%	0.6%
Nitrobenzene	< 66.2	869	1650	52.7%	906	1650	54.9%	4.2%
Isophorone	< 66.2	1020	1650	61.8%	1050	1650	63.6%	2.9%
2-Nitrophenol	< 331	810	1650	49.1%	792	1650	48.0%	2.2%
2,4-Dimethylphenol	< 66.2	885	1650	53.6%	898	1650	54.4%	1.5%
Benzoic Acid	< 662	3000	4940	60.7%	3220	4950	65.1%	7.1%
bis(2-Chloroethoxy) Methane	< 66.2	906	1650	54.9%	951	1650	57.6%	4.8%
2,4-Dichlorophenol	< 331	964	1650	58.4%	999	1650	60.5%	3.6%
1,2,4-Trichlorobenzene	< 66.2	862	1650	52.2%	888	1650	53.8%	3.0%
Naphthalene	< 66.2	874	1650	53.0%	903	1650	54.7%	3.3%
4-Chloroaniline	< 331	77.0 J	3950	1.9%	350	3960	8.8%	128%
Hexachlorobutadiene	< 66.2	837	1650	50.7%	861	1650	52.2%	2.8%
4-Chloro-3-methylphenol	< 331	1060	1650	64.2%	1110	1650	67.3%	4.6%
2-Methylnaphthalene	< 66.2	916	1650	55.5%	954	1650	57.8%	4.1%
Hexachlorocyclopentadiene	< 331	1700	4940	34.4%	1570	4950	31.7%	8.0%
2,4,6-Trichlorophenol	< 331	1060	1650	64.2%	900	1650	54.5%	16.3%
2,4,5-Trichlorophenol	< 331	896	1650	54.3%	907	1650	55.0%	1.2%
2-Chloronaphthalene	< 66.2	867	1650	52.5%	869	1650	52.7%	0.2%
2-Nitroaniline	< 331	836	1650	50.7%	993	1650	60.2%	17.2%
Dimethylphthalate	< 66.2	870	1650	52.7%	962	1650	58.3%	10.0%
Acenaphthylene	< 66.2	928	1650	56.2%	929	1650	56.3%	0.1%
3-Nitroaniline	< 331	466	4220	11.0%	792	4220	18.8%	51.8%
Acenaphthene	< 66.2	923	1650	55.9%	929	1650	56.3%	0.6%
2,4-Dinitrophenol	< 662	1150	4940	23.3%	568 J	4950	11.5%	67.8%
4-Nitrophenol	< 331	1200	1650	72.7%	1130	1650	68.5%	6.0%
Dibenzofuran	< 66.2	957	1650	58.0%	951	1650	57.6%	0.6%
2,6-Dinitrotoluene	< 331	918	1650	55.6%	962	1650	58.3%	4.7%

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Semivolatiles by SW8270D GC/MS
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Sample ID: TP-8-2
MS/MSD

Lab Sample ID: MK75B
LIMS ID: 08-3937
Matrix: Soil
Date Analyzed MS: 03/08/08 06:54
MSD: 03/08/08 07:28

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
2,4-Dinitrotoluene	< 331	1040	1650	63.0%	1020	1650	61.8%	1.9%
Diethylphthalate	< 66.2	1070	1650	64.8%	1080	1650	65.5%	0.9%
4-Chlorophenyl-phenylether	< 66.2	998	1650	60.5%	997	1650	60.4%	0.1%
Fluorene	< 66.2	996	1650	60.4%	1000	1650	60.6%	0.4%
4-Nitroaniline	< 331	198 J	1650	12.0%	363	1650	22.0%	58.8%
4,6-Dinitro-2-Methylphenol	< 66.2	1110	4940	22.5%	559 J	4950	11.3%	66.0%
N-Nitrosodiphenylamine	< 66.2	911	1650	55.2%	1130	1650	68.5%	21.5%
4-Bromophenyl-phenylether	< 66.2	831	1650	50.4%	869	1650	52.7%	4.5%
Hexachlorobenzene	< 66.2	804	1650	48.7%	827	1650	50.1%	2.8%
Pentachlorophenol	< 331	1000	1650	60.6%	986	1650	59.8%	1.4%
Phenanthrene	< 66.2	911	1650	55.2%	884	1650	53.6%	3.0%
Carbazole	< 66.2	871	1650	52.8%	914	1650	55.4%	4.8%
Anthracene	< 66.2	904	1650	54.8%	893	1650	54.1%	1.2%
Di-n-Butylphthalate	< 66.2	1020	1650	61.8%	1010	1650	61.2%	1.0%
Fluoranthene	< 66.2	973	1650	59.0%	896	1650	54.3%	8.2%
Pyrene	< 66.2	943	1650	57.2%	1030	1650	62.4%	8.8%
Butylbenzylphthalate	< 66.2	977	1650	59.2%	1010	1650	61.2%	3.3%
3,3'-Dichlorobenzidine	< 331	< 329 U	4220	NA	< 330 U	4220	NA	NA
Benzo(a)anthracene	< 66.2	865	1650	52.4%	860	1650	52.1%	0.6%
bis(2-Ethylhexyl)phthalate	< 66.2	1050	1650	63.6%	1080	1650	65.5%	2.8%
Chrysene	< 66.2	874	1650	53.0%	863	1650	52.3%	1.3%
Di-n-Octyl phthalate	< 66.2	896	1650	54.3%	906	1650	54.9%	1.1%
Benzo(b)fluoranthene	< 66.2	1080	1650	65.5%	1200	1650	72.7%	10.5%
Benzo(k)fluoranthene	< 66.2	1060	1650	64.2%	1040	1650	63.0%	1.9%
Benzo(a)pyrene	< 66.2	894	1650	54.2%	871	1650	52.8%	2.6%
Indeno(1,2,3-cd)pyrene	< 66.2	412	1650	25.0%	389	1650	23.6%	5.7%
Dibenz(a,h)anthracene	< 66.2	432	1650	26.2%	409	1650	24.8%	5.5%
Benzo(g,h,i)perylene	< 66.2	347	1650	21.0%	325	1650	19.7%	6.5%
1-Methylnaphthalene	< 66.2	933	1650	56.5%	979	1650	59.3%	4.8%

Results reported in µg/kg

RPD calculated using sample concentrations per SW846.

NA-No recovery due to high concentration of analyte in original sample and/or
calculated negative recovery.

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Sample ID: TP-9-13
SAMPLE

Lab Sample ID: MK75C
LIMS ID: 08-3938
Matrix: Soil
Data Release Authorized: **VTS**
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/08/08 08:03
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.91 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 7.4%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	63	< 63 U
208-96-8	Acenaphthylene	63	< 63 U

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Semivolatiles by SW8270D GC/MS
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Sample ID: TP-9-13
SAMPLE

Lab Sample ID: MK75C
LIMS ID: 08-3938
Matrix: Soil
Date Analyzed: 03/08/08 08:03

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
205-99-2	Benzo(b)fluoranthene	63	< 63 U
207-08-9	Benzo(k)fluoranthene	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U
90-12-0	1-Methylnaphthalene	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.0%	2-Fluorobiphenyl	58.8%
d14-p-Terphenyl	68.8%	d4-1,2-Dichlorobenzene	61.6%
d5-Phenol	58.9%	2-Fluorophenol	19.8%
2,4,6-Tribromophenol	76.3%	d4-2-Chlorophenol	59.5%

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Sample ID: TP-10-13
SAMPLE

Lab Sample ID: MK75F
LIMS ID: 08-3941
Matrix: Soil
Data Release Authorized: *VTS*
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/08/08 09:47
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 1.76 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 14.6%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	280	< 280 U
111-44-4	Bis-(2-Chloroethyl) Ether	280	< 280 U
95-57-8	2-Chlorophenol	280	< 280 U
541-73-1	1,3-Dichlorobenzene	280	< 280 U
106-46-7	1,4-Dichlorobenzene	280	< 280 U
100-51-6	Benzyl Alcohol	1,400	< 1,400 U
95-50-1	1,2-Dichlorobenzene	280	< 280 U
95-48-7	2-Methylphenol	280	< 280 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	280	< 280 U
106-44-5	4-Methylphenol	280	< 280 U
621-64-7	N-Nitroso-Di-N-Propylamine	1,400	< 1,400 U
67-72-1	Hexachloroethane	280	< 280 U
98-95-3	Nitrobenzene	280	< 280 U
78-59-1	Isophorone	280	< 280 U
88-75-5	2-Nitrophenol	1,400	< 1,400 U
105-67-9	2,4-Dimethylphenol	280	< 280 U
65-85-0	Benzoic Acid	2,800	< 2,800 U
111-91-1	bis(2-Chloroethoxy) Methane	280	< 280 U
120-83-2	2,4-Dichlorophenol	1,400	< 1,400 U
120-82-1	1,2,4-Trichlorobenzene	280	< 280 U
91-20-3	Naphthalene	280	< 280 U
106-47-8	4-Chloroaniline	1,400	< 1,400 U
87-68-3	Hexachlorobutadiene	280	< 280 U
59-50-7	4-Chloro-3-methylphenol	1,400	< 1,400 U
91-57-6	2-Methylnaphthalene	280	< 280 U
77-47-4	Hexachlorocyclopentadiene	1,400	< 1,400 U
88-06-2	2,4,6-Trichlorophenol	1,400	< 1,400 U
95-95-4	2,4,5-Trichlorophenol	1,400	< 1,400 U
91-58-7	2-Chloronaphthalene	280	< 280 U
88-74-4	2-Nitroaniline	1,400	< 1,400 U
131-11-3	Dimethylphthalate	280	< 280 U
208-96-8	Acenaphthylene	280	< 280 U

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Semivolatiles by SW8270D GC/MS
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Sample ID: TP-10-13
SAMPLE

Lab Sample ID: MK75F
LIMS ID: 08-3941
Matrix: Soil
Date Analyzed: 03/08/08 09:47

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	1,400	< 1,400 U
83-32-9	Acenaphthene	280	< 280 U
51-28-5	2,4-Dinitrophenol	2,800	< 2,800 U
100-02-7	4-Nitrophenol	1,400	< 1,400 U
132-64-9	Dibenzofuran	280	< 280 U
606-20-2	2,6-Dinitrotoluene	1,400	< 1,400 U
121-14-2	2,4-Dinitrotoluene	1,400	< 1,400 U
84-66-2	Diethylphthalate	280	< 280 U
7005-72-3	4-Chlorophenyl-phenylether	280	< 280 U
86-73-7	Fluorene	280	< 280 U
100-01-6	4-Nitroaniline	1,400	< 1,400 U
534-52-1	4,6-Dinitro-2-Methylphenol	2,800	< 2,800 U
86-30-6	N-Nitrosodiphenylamine	280	< 280 U
101-55-3	4-Bromophenyl-phenylether	280	< 280 U
118-74-1	Hexachlorobenzene	280	< 280 U
87-86-5	Pentachlorophenol	1,400	< 1,400 U
85-01-8	Phenanthrene	280	< 280 U
86-74-8	Carbazole	280	< 280 U
120-12-7	Anthracene	280	< 280 U
84-74-2	Di-n-Butylphthalate	280	< 280 U
206-44-0	Fluoranthene	280	< 280 U
129-00-0	Pyrene	280	< 280 U
85-68-7	Butylbenzylphthalate	280	< 280 U
91-94-1	3,3'-Dichlorobenzidine	1,400	< 1,400 U
56-55-3	Benzo (a) anthracene	280	< 280 U
117-81-7	bis (2-Ethylhexyl) phthalate	280	< 280 U
218-01-9	Chrysene	280	< 280 U
117-84-0	Di-n-Octyl phthalate	280	< 280 U
205-99-2	Benzo (b) fluoranthene	280	< 280 U
207-08-9	Benzo (k) fluoranthene	280	< 280 U
50-32-8	Benzo (a) pyrene	280	< 280 U
193-39-5	Indeno (1,2,3-cd) pyrene	280	< 280 U
53-70-3	Dibenz (a,h) anthracene	280	< 280 U
191-24-2	Benzo (g,h,i) perylene	280	< 280 U
90-12-0	1-Methylnaphthalene	280	< 280 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	61.2%	2-Fluorobiphenyl	64.8%
d14-p-Terphenyl	79.6%	d4-1,2-Dichlorobenzene	62.4%
d5-Phenol	59.7%	2-Fluorophenol	29.3%
2,4,6-Tribromophenol	80.8%	d4-2-Chlorophenol	61.3%

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Sample ID: TP-11-14
SAMPLE

Lab Sample ID: MK75G
LIMS ID: 08-3942
Matrix: Soil
Data Release Authorized: *VTS*
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/08/08 10:22
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.76 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 38.2%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U
208-96-8	Acenaphthylene	64	< 64 U

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Semivolatiles by SW8270D GC/MS
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Sample ID: TP-11-14
SAMPLE

Lab Sample ID: MK75G
LIMS ID: 08-3942
Matrix: Soil
Date Analyzed: 03/08/08 10:22

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U
90-12-0	1-Methylnaphthalene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	50.0%	2-Fluorobiphenyl	58.4%
d14-p-Terphenyl	68.0%	d4-1,2-Dichlorobenzene	54.0%
d5-Phenol	53.1%	2-Fluorophenol	26.2%
2,4,6-Tribromophenol	70.9%	d4-2-Chlorophenol	55.5%

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Semivolatiles by SW8270D GC/MS
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Sample ID: TP-11-14
DILUTION

Lab Sample ID: MK75G
LIMS ID: 08-3942
Matrix: Soil
Data Release Authorized: *VDS*
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/10/08 23:23
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.76 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 3.00
Percent Moisture: 38.2%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	190	< 190 U
111-44-4	Bis-(2-Chloroethyl) Ether	190	< 190 U
95-57-8	2-Chlorophenol	190	< 190 U
541-73-1	1,3-Dichlorobenzene	190	< 190 U
106-46-7	1,4-Dichlorobenzene	190	< 190 U
100-51-6	Benzyl Alcohol	970	< 970 U
95-50-1	1,2-Dichlorobenzene	190	< 190 U
95-48-7	2-Methylphenol	190	< 190 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	190	< 190 U
106-44-5	4-Methylphenol	190	< 190 U
621-64-7	N-Nitroso-Di-N-Propylamine	970	< 970 U
67-72-1	Hexachloroethane	190	< 190 U
98-95-3	Nitrobenzene	190	< 190 U
78-59-1	Isophorone	190	< 190 U
88-75-5	2-Nitrophenol	970	< 970 U
105-67-9	2,4-Dimethylphenol	190	< 190 U
65-85-0	Benzoic Acid	1,900	< 1,900 U
111-91-1	bis(2-Chloroethoxy) Methane	190	< 190 U
120-83-2	2,4-Dichlorophenol	970	< 970 U
120-82-1	1,2,4-Trichlorobenzene	190	< 190 U
91-20-3	Naphthalene	190	< 190 U
106-47-8	4-Chloroaniline	970	< 970 U
87-68-3	Hexachlorobutadiene	190	< 190 U
59-50-7	4-Chloro-3-methylphenol	970	< 970 U
91-57-6	2-Methylnaphthalene	190	< 190 U
77-47-4	Hexachlorocyclopentadiene	970	< 970 U
88-06-2	2,4,6-Trichlorophenol	970	< 970 U
95-95-4	2,4,5-Trichlorophenol	970	< 970 U
91-58-7	2-Chloronaphthalene	190	< 190 U
88-74-4	2-Nitroaniline	970	< 970 U
131-11-3	Dimethylphthalate	190	< 190 U
208-96-8	Acenaphthylene	190	< 190 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: TP-11-14
DILUTION

Lab Sample ID: MK75G
LIMS ID: 08-3942
Matrix: Soil
Date Analyzed: 03/10/08 23:23

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	970	< 970 U
83-32-9	Acenaphthene	190	< 190 U
51-28-5	2,4-Dinitrophenol	1,900	< 1,900 U
100-02-7	4-Nitrophenol	970	< 970 U
132-64-9	Dibenzofuran	190	< 190 U
606-20-2	2,6-Dinitrotoluene	970	< 970 U
121-14-2	2,4-Dinitrotoluene	970	< 970 U
84-66-2	Diethylphthalate	190	< 190 U
7005-72-3	4-Chlorophenyl-phenylether	190	< 190 U
86-73-7	Fluorene	190	< 190 U
100-01-6	4-Nitroaniline	970	< 970 U
534-52-1	4,6-Dinitro-2-Methylphenol	1,900	< 1,900 U
86-30-6	N-Nitrosodiphenylamine	190	< 190 U
101-55-3	4-Bromophenyl-phenylether	190	< 190 U
118-74-1	Hexachlorobenzene	190	< 190 U
87-86-5	Pentachlorophenol	970	< 970 U
85-01-8	Phenanthrene	190	< 190 U
86-74-8	Carbazole	190	< 190 U
120-12-7	Anthracene	190	< 190 U
84-74-2	Di-n-Butylphthalate	190	< 190 U
206-44-0	Fluoranthene	190	< 190 U
129-00-0	Pyrene	190	< 190 U
85-68-7	Butylbenzylphthalate	190	< 190 U
91-94-1	3,3'-Dichlorobenzidine	970	< 970 U
56-55-3	Benzo(a)anthracene	190	< 190 U
117-81-7	bis(2-Ethylhexyl)phthalate	190	< 190 U
218-01-9	Chrysene	190	< 190 U
117-84-0	Di-n-Octyl phthalate	190	< 190 U
205-99-2	Benzo(b)fluoranthene	190	< 190 U
207-08-9	Benzo(k)fluoranthene	190	< 190 U
50-32-8	Benzo(a)pyrene	190	< 190 U
193-39-5	Indeno(1,2,3-cd)pyrene	190	< 190 U
53-70-3	Dibenz(a,h)anthracene	190	< 190 U
191-24-2	Benzo(g,h,i)perylene	190	< 190 U
90-12-0	1-Methylnaphthalene	190	< 190 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	55.2%	2-Fluorobiphenyl	56.2%
d14-p-Terphenyl	55.4%	d4-1,2-Dichlorobenzene	54.1%
d5-Phenol	44.2%	2-Fluorophenol	37.8%
2,4,6-Tribromophenol	58.2%	d4-2-Chlorophenol	52.9%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: TP-11-4
SAMPLE

Lab Sample ID: MK75H
LIMS ID: 08-3943
Matrix: Soil
Data Release Authorized: **VTS**
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/08/08 10:56
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.61 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 27.5%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	73
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: TP-11-4
SAMPLE

Lab Sample ID: MK75H
LIMS ID: 08-3943
Matrix: Soil
Date Analyzed: 03/08/08 10:56

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	68
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	72
129-00-0	Pyrene	66	68
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
205-99-2	Benzo(b)fluoranthene	66	< 66 U
207-08-9	Benzo(k)fluoranthene	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U
90-12-0	1-Methylnaphthalene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	50.8%	2-Fluorobiphenyl	58.4%
d14-p-Terphenyl	64.4%	d4-1,2-Dichlorobenzene	54.0%
d5-Phenol	53.9%	2-Fluorophenol	20.0%
2,4,6-Tribromophenol	68.5%	d4-2-Chlorophenol	56.5%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: TP-11-4
DILUTION

Lab Sample ID: MK75H
LIMS ID: 08-3943
Matrix: Soil
Data Release Authorized: *VIS*
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/10/08 23:58
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.61 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 3.00
Percent Moisture: 27.5%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	200	< 200 U
111-44-4	Bis-(2-Chloroethyl) Ether	200	< 200 U
95-57-8	2-Chlorophenol	200	< 200 U
541-73-1	1,3-Dichlorobenzene	200	< 200 U
106-46-7	1,4-Dichlorobenzene	200	< 200 U
100-51-6	Benzyl Alcohol	990	< 990 U
95-50-1	1,2-Dichlorobenzene	200	< 200 U
95-48-7	2-Methylphenol	200	< 200 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	200	< 200 U
106-44-5	4-Methylphenol	200	< 200 U
621-64-7	N-Nitroso-Di-N-Propylamine	990	< 990 U
67-72-1	Hexachloroethane	200	< 200 U
98-95-3	Nitrobenzene	200	< 200 U
78-59-1	Isophorone	200	< 200 U
88-75-5	2-Nitrophenol	990	< 990 U
105-67-9	2,4-Dimethylphenol	200	< 200 U
65-85-0	Benzoic Acid	2,000	< 2,000 U
111-91-1	bis(2-Chloroethoxy) Methane	200	< 200 U
120-83-2	2,4-Dichlorophenol	990	< 990 U
120-82-1	1,2,4-Trichlorobenzene	200	< 200 U
91-20-3	Naphthalene	200	< 200 U
106-47-8	4-Chloroaniline	990	< 990 U
87-68-3	Hexachlorobutadiene	200	< 200 U
59-50-7	4-Chloro-3-methylphenol	990	< 990 U
91-57-6	2-Methylnaphthalene	200	< 200 U
77-47-4	Hexachlorocyclopentadiene	990	< 990 U
88-06-2	2,4,6-Trichlorophenol	990	< 990 U
95-95-4	2,4,5-Trichlorophenol	990	< 990 U
91-58-7	2-Chloronaphthalene	200	< 200 U
88-74-4	2-Nitroaniline	990	< 990 U
131-11-3	Dimethylphthalate	200	< 200 U
208-96-8	Acenaphthylene	200	< 200 U

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Semivolatiles by SW8270D GC/MS
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Sample ID: TP-11-4
DILUTION

Lab Sample ID: MK75H
LIMS ID: 08-3943
Matrix: Soil
Date Analyzed: 03/10/08 23:58

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	990	< 990 U
83-32-9	Acenaphthene	200	< 200 U
51-28-5	2,4-Dinitrophenol	2,000	< 2,000 U
100-02-7	4-Nitrophenol	990	< 990 U
132-64-9	Dibenzofuran	200	< 200 U
606-20-2	2,6-Dinitrotoluene	990	< 990 U
121-14-2	2,4-Dinitrotoluene	990	< 990 U
84-66-2	Diethylphthalate	200	< 200 U
7005-72-3	4-Chlorophenyl-phenylether	200	< 200 U
86-73-7	Fluorene	200	< 200 U
100-01-6	4-Nitroaniline	990	< 990 U
534-52-1	4,6-Dinitro-2-Methylphenol	2,000	< 2,000 U
86-30-6	N-Nitrosodiphenylamine	200	< 200 U
101-55-3	4-Bromophenyl-phenylether	200	< 200 U
118-74-1	Hexachlorobenzene	200	< 200 U
87-86-5	Pentachlorophenol	990	< 990 U
85-01-8	Phenanthrene	200	< 200 U
86-74-8	Carbazole	200	< 200 U
120-12-7	Anthracene	200	< 200 U
84-74-2	Di-n-Butylphthalate	200	< 200 U
206-44-0	Fluoranthene	200	< 200 U
129-00-0	Pyrene	200	< 200 U
85-68-7	Butylbenzylphthalate	200	< 200 U
91-94-1	3,3'-Dichlorobenzidine	990	< 990 U
56-55-3	Benzo (a) anthracene	200	< 200 U
117-81-7	bis (2-Ethylhexyl)phthalate	200	< 200 U
218-01-9	Chrysene	200	< 200 U
117-84-0	Di-n-Octyl phthalate	200	< 200 U
205-99-2	Benzo (b) fluoranthene	200	< 200 U
207-08-9	Benzo (k) fluoranthene	200	< 200 U
50-32-8	Benzo (a) pyrene	200	< 200 U
193-39-5	Indeno (1,2,3-cd) pyrene	200	< 200 U
53-70-3	Dibenz (a,h) anthracene	200	< 200 U
191-24-2	Benzo (g,h,i) perylene	200	< 200 U
90-12-0	1-Methylnaphthalene	200	< 200 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	58.0%	2-Fluorobiphenyl	60.8%
d14-p-Terphenyl	54.0%	d4-1,2-Dichlorobenzene	55.8%
d5-Phenol	48.2%	2-Fluorophenol	35.5%
2,4,6-Tribromophenol	64.2%	d4-2-Chlorophenol	56.3%

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Semivolatiles by SW8270D GC/MS
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Sample ID: TP-12-13
SAMPLE

Lab Sample ID: MK75I
LIMS ID: 08-3944
Matrix: Soil
Data Release Authorized: *VTS*
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/08/08 11:31
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 2.30 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 23.4%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	220	< 220 U
111-44-4	Bis-(2-Chloroethyl) Ether	220	< 220 U
95-57-8	2-Chlorophenol	220	< 220 U
541-73-1	1,3-Dichlorobenzene	220	< 220 U
106-46-7	1,4-Dichlorobenzene	220	< 220 U
100-51-6	Benzyl Alcohol	1,100	< 1,100 U
95-50-1	1,2-Dichlorobenzene	220	< 220 U
95-48-7	2-Methylphenol	220	< 220 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	220	< 220 U
106-44-5	4-Methylphenol	220	< 220 U
621-64-7	N-Nitroso-Di-N-Propylamine	1,100	< 1,100 U
67-72-1	Hexachloroethane	220	< 220 U
98-95-3	Nitrobenzene	220	< 220 U
78-59-1	Isophorone	220	< 220 U
88-75-5	2-Nitrophenol	1,100	< 1,100 U
105-67-9	2,4-Dimethylphenol	220	< 220 U
65-85-0	Benzoic Acid	2,200	< 2,200 U
111-91-1	bis(2-Chloroethoxy) Methane	220	< 220 U
120-83-2	2,4-Dichlorophenol	1,100	< 1,100 U
120-82-1	1,2,4-Trichlorobenzene	220	< 220 U
91-20-3	Naphthalene	220	< 220 U
106-47-8	4-Chloroaniline	1,100	< 1,100 U
87-68-3	Hexachlorobutadiene	220	< 220 U
59-50-7	4-Chloro-3-methylphenol	1,100	< 1,100 U
91-57-6	2-Methylnaphthalene	220	530
77-47-4	Hexachlorocyclopentadiene	1,100	< 1,100 U
88-06-2	2,4,6-Trichlorophenol	1,100	< 1,100 U
95-95-4	2,4,5-Trichlorophenol	1,100	< 1,100 U
91-58-7	2-Chloronaphthalene	220	< 220 U
88-74-4	2-Nitroaniline	1,100	< 1,100 U
131-11-3	Dimethylphthalate	220	< 220 U
208-96-8	Acenaphthylene	220	< 220 U

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Semivolatiles by SW8270D GC/MS
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Sample ID: TP-12-13
SAMPLE

Lab Sample ID: MK75I
LIMS ID: 08-3944
Matrix: Soil
Date Analyzed: 03/08/08 11:31

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	1,100	< 1,100 U
83-32-9	Acenaphthene	220	< 220 U
51-28-5	2,4-Dinitrophenol	2,200	< 2,200 U
100-02-7	4-Nitrophenol	1,100	< 1,100 U
132-64-9	Dibenzofuran	220	250
606-20-2	2,6-Dinitrotoluene	1,100	< 1,100 U
121-14-2	2,4-Dinitrotoluene	1,100	< 1,100 U
84-66-2	Diethylphthalate	220	< 220 U
7005-72-3	4-Chlorophenyl-phenylether	220	< 220 U
86-73-7	Fluorene	220	1,400
100-01-6	4-Nitroaniline	1,100	< 1,100 U
534-52-1	4,6-Dinitro-2-Methylphenol	2,200	< 2,200 U
86-30-6	N-Nitrosodiphenylamine	640	< 640 Y
101-55-3	4-Bromophenyl-phenylether	220	< 220 U
118-74-1	Hexachlorobenzene	220	< 220 U
87-86-5	Pentachlorophenol	1,100	< 1,100 U
85-01-8	Phenanthrene	220	2,700
86-74-8	Carbazole	220	< 220 U
120-12-7	Anthracene	220	< 220 U
84-74-2	Di-n-Butylphthalate	220	< 220 U
206-44-0	Fluoranthene	220	320
129-00-0	Pyrene	220	580
85-68-7	Butylbenzylphthalate	220	< 220 U
91-94-1	3,3'-Dichlorobenzidine	1,100	< 1,100 U
56-55-3	Benzo (a) anthracene	220	< 220 U
117-81-7	bis (2-Ethylhexyl) phthalate	220	< 220 U
218-01-9	Chrysene	220	< 220 U
117-84-0	Di-n-Octyl phthalate	220	< 220 U
205-99-2	Benzo (b) fluoranthene	220	< 220 U
207-08-9	Benzo (k) fluoranthene	220	< 220 U
50-32-8	Benzo (a) pyrene	220	< 220 U
193-39-5	Indeno (1,2,3-cd) pyrene	220	< 220 U
53-70-3	Dibenz (a,h) anthracene	220	< 220 U
191-24-2	Benzo (g,h,i) perylene	220	< 220 U
90-12-0	1-Methylnaphthalene	220	1,600

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.8%	2-Fluorobiphenyl	66.0%
d14-p-Terphenyl	61.6%	d4-1,2-Dichlorobenzene	62.4%
d5-Phenol	59.5%	2-Fluorophenol	23.5%
2,4,6-Tribromophenol	93.9%	d4-2-Chlorophenol	60.5%

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Semivolatiles by SW8270D GC/MS
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Sample ID: TP-12-13
DILUTION

Lab Sample ID: MK75I
LIMS ID: 08-3944
Matrix: Soil
Data Release Authorized: **VTS**
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/11/08 00:33
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 2.30 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 5.00
Percent Moisture: 23.4%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1,100	< 1,100 U
111-44-4	Bis-(2-Chloroethyl) Ether	1,100	< 1,100 U
95-57-8	2-Chlorophenol	1,100	< 1,100 U
541-73-1	1,3-Dichlorobenzene	1,100	< 1,100 U
106-46-7	1,4-Dichlorobenzene	1,100	< 1,100 U
100-51-6	Benzyl Alcohol	5,400	< 5,400 U
95-50-1	1,2-Dichlorobenzene	1,100	< 1,100 U
95-48-7	2-Methylphenol	1,100	< 1,100 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1,100	< 1,100 U
106-44-5	4-Methylphenol	1,100	< 1,100 U
621-64-7	N-Nitroso-Di-N-Propylamine	5,400	< 5,400 U
67-72-1	Hexachloroethane	1,100	< 1,100 U
98-95-3	Nitrobenzene	1,100	< 1,100 U
78-59-1	Isophorone	1,100	< 1,100 U
88-75-5	2-Nitrophenol	5,400	< 5,400 U
105-67-9	2,4-Dimethylphenol	1,100	< 1,100 U
65-85-0	Benzoic Acid	11,000	< 11,000 U
111-91-1	bis(2-Chloroethoxy) Methane	1,100	< 1,100 U
120-83-2	2,4-Dichlorophenol	5,400	< 5,400 U
120-82-1	1,2,4-Trichlorobenzene	1,100	< 1,100 U
91-20-3	Naphthalene	1,100	< 1,100 U
106-47-8	4-Chloroaniline	5,400	< 5,400 U
87-68-3	Hexachlorobutadiene	1,100	< 1,100 U
59-50-7	4-Chloro-3-methylphenol	5,400	< 5,400 U
91-57-6	2-Methylnaphthalene	1,100	< 1,100 U
77-47-4	Hexachlorocyclopentadiene	5,400	< 5,400 U
88-06-2	2,4,6-Trichlorophenol	5,400	< 5,400 U
95-95-4	2,4,5-Trichlorophenol	5,400	< 5,400 U
91-58-7	2-Chloronaphthalene	1,100	< 1,100 U
88-74-4	2-Nitroaniline	5,400	< 5,400 U
131-11-3	Dimethylphthalate	1,100	< 1,100 U
208-96-8	Acenaphthylene	1,100	< 1,100 U

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Semivolatiles by SW8270D GC/MS
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Sample ID: TP-12-13
DILUTION

Lab Sample ID: MK75I
LIMS ID: 08-3944
Matrix: Soil
Date Analyzed: 03/11/08 00:33

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	5,400	< 5,400 U
83-32-9	Acenaphthene	1,100	< 1,100 U
51-28-5	2,4-Dinitrophenol	11,000	< 11,000 U
100-02-7	4-Nitrophenol	5,400	< 5,400 U
132-64-9	Dibenzofuran	1,100	< 1,100 U
606-20-2	2,6-Dinitrotoluene	5,400	< 5,400 U
121-14-2	2,4-Dinitrotoluene	5,400	< 5,400 U
84-66-2	Diethylphthalate	1,100	< 1,100 U
7005-72-3	4-Chlorophenyl-phenylether	1,100	< 1,100 U
86-73-7	Fluorene	1,100	1,200
100-01-6	4-Nitroaniline	5,400	< 5,400 U
534-52-1	4,6-Dinitro-2-Methylphenol	11,000	< 11,000 U
86-30-6	N-Nitrosodiphenylamine	2,300	< 2,300 Y
101-55-3	4-Bromophenyl-phenylether	1,100	< 1,100 U
118-74-1	Hexachlorobenzene	1,100	< 1,100 U
87-86-5	Pentachlorophenol	5,400	< 5,400 U
85-01-8	Phenanthrene	1,100	2,800
86-74-8	Carbazole	1,100	< 1,100 U
120-12-7	Anthracene	1,100	< 1,100 U
84-74-2	Di-n-Butylphthalate	1,100	< 1,100 U
206-44-0	Fluoranthene	1,100	< 1,100 U
129-00-0	Pyrene	1,100	< 1,100 U
85-68-7	Butylbenzylphthalate	1,100	< 1,100 U
91-94-1	3,3'-Dichlorobenzidine	5,400	< 5,400 U
56-55-3	Benzo (a) anthracene	1,100	< 1,100 U
117-81-7	bis (2-Ethylhexyl)phthalate	1,100	< 1,100 U
218-01-9	Chrysene	1,100	< 1,100 U
117-84-0	Di-n-Octyl phthalate	1,100	< 1,100 U
205-99-2	Benzo (b) fluoranthene	1,100	< 1,100 U
207-08-9	Benzo (k) fluoranthene	1,100	< 1,100 U
50-32-8	Benzo (a) pyrene	1,100	< 1,100 U
193-39-5	Indeno (1,2,3-cd) pyrene	1,100	< 1,100 U
53-70-3	Dibenz (a,h) anthracene	1,100	< 1,100 U
191-24-2	Benzo (g,h,i) perylene	1,100	< 1,100 U
90-12-0	1-Methylnaphthalene	1,100	1,700

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	69.6%	2-Fluorobiphenyl	70.0%
d14-p-Terphenyl	57.8%	d4-1,2-Dichlorobenzene	64.6%
d5-Phenol	46.0%	2-Fluorophenol	41.7%
2,4,6-Tribromophenol	67.6%	d4-2-Chlorophenol	60.3%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: TP-12D-13
SAMPLE

Lab Sample ID: MK75J
LIMS ID: 08-3945
Matrix: Soil
Data Release Authorized: **VTS**
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/08/08 12:06
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 4.33 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 28.8%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	120	< 120 U
111-44-4	Bis-(2-Chloroethyl) Ether	120	< 120 U
95-57-8	2-Chlorophenol	120	< 120 U
541-73-1	1,3-Dichlorobenzene	120	< 120 U
106-46-7	1,4-Dichlorobenzene	120	< 120 U
100-51-6	Benzyl Alcohol	580	< 580 U
95-50-1	1,2-Dichlorobenzene	120	< 120 U
95-48-7	2-Methylphenol	120	< 120 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	120	< 120 U
106-44-5	4-Methylphenol	120	< 120 U
621-64-7	N-Nitroso-Di-N-Propylamine	580	< 580 U
67-72-1	Hexachloroethane	120	< 120 U
98-95-3	Nitrobenzene	120	< 120 U
78-59-1	Isophorone	120	< 120 U
88-75-5	2-Nitrophenol	580	< 580 U
105-67-9	2,4-Dimethylphenol	120	< 120 U
65-85-0	Benzoic Acid	1,200	< 1,200 U
111-91-1	bis(2-Chloroethoxy) Methane	120	< 120 U
120-83-2	2,4-Dichlorophenol	580	< 580 U
120-82-1	1,2,4-Trichlorobenzene	120	< 120 U
91-20-3	Naphthalene	120	150
106-47-8	4-Chloroaniline	580	< 580 U
87-68-3	Hexachlorobutadiene	120	< 120 U
59-50-7	4-Chloro-3-methylphenol	580	< 580 U
91-57-6	2-Methylnaphthalene	120	400
77-47-4	Hexachlorocyclopentadiene	580	< 580 U
88-06-2	2,4,6-Trichlorophenol	580	< 580 U
95-95-4	2,4,5-Trichlorophenol	580	< 580 U
91-58-7	2-Chloronaphthalene	120	< 120 U
88-74-4	2-Nitroaniline	580	< 580 U
131-11-3	Dimethylphthalate	120	< 120 U
208-96-8	Acenaphthylene	120	< 120 U

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Semivolatiles by SW8270D GC/MS
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Sample ID: TP-12D-13
SAMPLE

Lab Sample ID: MK75J
LIMS ID: 08-3945
Matrix: Soil
Date Analyzed: 03/08/08 12:06

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	580	< 580 U
83-32-9	Acenaphthene	120	< 120 U
51-28-5	2,4-Dinitrophenol	1,200	< 1,200 U
100-02-7	4-Nitrophenol	580	< 580 U
132-64-9	Dibenzofuran	120	< 120 U
606-20-2	2,6-Dinitrotoluene	580	< 580 U
121-14-2	2,4-Dinitrotoluene	580	< 580 U
84-66-2	Diethylphthalate	120	< 120 U
7005-72-3	4-Chlorophenyl-phenylether	120	< 120 U
86-73-7	Fluorene	120	270
100-01-6	4-Nitroaniline	580	< 580 U
534-52-1	4,6-Dinitro-2-Methylphenol	1,200	< 1,200 U
86-30-6	N-Nitrosodiphenylamine	340	< 340 Y
101-55-3	4-Bromophenyl-phenylether	120	< 120 U
118-74-1	Hexachlorobenzene	120	< 120 U
87-86-5	Pentachlorophenol	580	< 580 U
85-01-8	Phenanthrene	120	640
86-74-8	Carbazole	120	< 120 U
120-12-7	Anthracene	120	< 120 U
84-74-2	Di-n-Butylphthalate	120	< 120 U
206-44-0	Fluoranthene	120	160
129-00-0	Pyrene	120	210
85-68-7	Butylbenzylphthalate	120	< 120 U
91-94-1	3,3'-Dichlorobenzidine	580	< 580 U
56-55-3	Benzo (a) anthracene	120	< 120 U
117-81-7	bis (2-Ethylhexyl) phthalate	120	< 120 U
218-01-9	Chrysene	120	< 120 U
117-84-0	Di-n-Octyl phthalate	120	< 120 U
205-99-2	Benzo (b) fluoranthene	120	< 120 U
207-08-9	Benzo (k) fluoranthene	120	< 120 U
50-32-8	Benzo (a) pyrene	120	< 120 U
193-39-5	Indeno (1,2,3-cd) pyrene	120	< 120 U
53-70-3	Dibenz (a,h) anthracene	120	< 120 U
191-24-2	Benzo (g,h,i) perylene	120	< 120 U
90-12-0	1-Methylnaphthalene	120	660

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	58.8%	2-Fluorobiphenyl	64.0%
d14-p-Terphenyl	63.2%	d4-1,2-Dichlorobenzene	56.4%
d5-Phenol	54.7%	2-Fluorophenol	15.2%
2,4,6-Tribromophenol	84.5%	d4-2-Chlorophenol	58.1%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: TP-12D-13
DILUTION

Lab Sample ID: MK75J
LIMS ID: 08-3945
Matrix: Soil
Data Release Authorized: **VTS**
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/11/08 01:07
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 4.33 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 3.00
Percent Moisture: 28.8%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	350	< 350 U
111-44-4	Bis-(2-Chloroethyl) Ether	350	< 350 U
95-57-8	2-Chlorophenol	350	< 350 U
541-73-1	1,3-Dichlorobenzene	350	< 350 U
106-46-7	1,4-Dichlorobenzene	350	< 350 U
100-51-6	Benzyl Alcohol	1,700	< 1,700 U
95-50-1	1,2-Dichlorobenzene	350	< 350 U
95-48-7	2-Methylphenol	350	< 350 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	350	< 350 U
106-44-5	4-Methylphenol	350	< 350 U
621-64-7	N-Nitroso-Di-N-Propylamine	1,700	< 1,700 U
67-72-1	Hexachloroethane	350	< 350 U
98-95-3	Nitrobenzene	350	< 350 U
78-59-1	Isophorone	350	< 350 U
88-75-5	2-Nitrophenol	1,700	< 1,700 U
105-67-9	2,4-Dimethylphenol	350	< 350 U
65-85-0	Benzoic Acid	3,500	< 3,500 U
111-91-1	bis(2-Chloroethoxy) Methane	350	< 350 U
120-83-2	2,4-Dichlorophenol	1,700	< 1,700 U
120-82-1	1,2,4-Trichlorobenzene	350	< 350 U
91-20-3	Naphthalene	350	< 350 U
106-47-8	4-Chloroaniline	1,700	< 1,700 U
87-68-3	Hexachlorobutadiene	350	< 350 U
59-50-7	4-Chloro-3-methylphenol	1,700	< 1,700 U
91-57-6	2-Methylnaphthalene	350	350
77-47-4	Hexachlorocyclopentadiene	1,700	< 1,700 U
88-06-2	2,4,6-Trichlorophenol	1,700	< 1,700 U
95-95-4	2,4,5-Trichlorophenol	1,700	< 1,700 U
91-58-7	2-Chloronaphthalene	350	< 350 U
88-74-4	2-Nitroaniline	1,700	< 1,700 U
131-11-3	Dimethylphthalate	350	< 350 U
208-96-8	Acenaphthylene	350	< 350 U

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Semivolatiles by SW8270D GC/MS
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Sample ID: TP-12D-13
DILUTION

Lab Sample ID: MK75J
LIMS ID: 08-3945
Matrix: Soil
Date Analyzed: 03/11/08 01:07

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	1,700	< 1,700 U
83-32-9	Acenaphthene	350	< 350 U
51-28-5	2,4-Dinitrophenol	3,500	< 3,500 U
100-02-7	4-Nitrophenol	1,700	< 1,700 U
132-64-9	Dibenzofuran	350	< 350 U
606-20-2	2,6-Dinitrotoluene	1,700	< 1,700 U
121-14-2	2,4-Dinitrotoluene	1,700	< 1,700 U
84-66-2	Diethylphthalate	350	< 350 U
7005-72-3	4-Chlorophenyl-phenylether	350	< 350 U
86-73-7	Fluorene	350	< 350 U
100-01-6	4-Nitroaniline	1,700	< 1,700 U
534-52-1	4,6-Dinitro-2-Methylphenol	3,500	< 3,500 U
86-30-6	N-Nitrosodiphenylamine	710	< 710 Y
101-55-3	4-Bromophenyl-phenylether	350	< 350 U
118-74-1	Hexachlorobenzene	350	< 350 U
87-86-5	Pentachlorophenol	1,700	< 1,700 U
85-01-8	Phenanthrene	350	680
86-74-8	Carbazole	350	< 350 U
120-12-7	Anthracene	350	< 350 U
84-74-2	Di-n-Butylphthalate	350	< 350 U
206-44-0	Fluoranthene	350	< 350 U
129-00-0	Pyrene	350	< 350 U
85-68-7	Butylbenzylphthalate	350	< 350 U
91-94-1	3,3'-Dichlorobenzidine	1,700	< 1,700 U
56-55-3	Benzo(a)anthracene	350	< 350 U
117-81-7	bis(2-Ethylhexyl)phthalate	350	< 350 U
218-01-9	Chrysene	350	< 350 U
117-84-0	Di-n-Octyl phthalate	350	< 350 U
205-99-2	Benzo(b)fluoranthene	350	< 350 U
207-08-9	Benzo(k)fluoranthene	350	< 350 U
50-32-8	Benzo(a)pyrene	350	< 350 U
193-39-5	Indeno(1,2,3-cd)pyrene	350	< 350 U
53-70-3	Dibenz(a,h)anthracene	350	< 350 U
191-24-2	Benzo(g,h,i)perylene	350	< 350 U
90-12-0	1-Methylnaphthalene	350	700

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.2%	2-Fluorobiphenyl	65.6%
d14-p-Terphenyl	58.1%	d4-1,2-Dichlorobenzene	57.4%
d5-Phenol	54.2%	2-Fluorophenol	34.9%
2,4,6-Tribromophenol	67.7%	d4-2-Chlorophenol	60.7%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: TP-13-8
SAMPLE

Lab Sample ID: MK75K
LIMS ID: 08-3946
Matrix: Soil
Data Release Authorized: *VTS*
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/08/08 12:40
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.91 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 7.2%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	63	< 63 U
208-96-8	Acenaphthylene	63	< 63 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: TP-13-8
SAMPLE

Lab Sample ID: MK75K
LIMS ID: 08-3946
Matrix: Soil
Date Analyzed: 03/08/08 12:40

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo (a) anthracene	63	< 63 U
117-81-7	bis (2-Ethylhexyl) phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
205-99-2	Benzo (b) fluoranthene	63	< 63 U
207-08-9	Benzo (k) fluoranthene	63	< 63 U
50-32-8	Benzo (a) pyrene	63	< 63 U
193-39-5	Indeno (1,2,3-cd) pyrene	63	< 63 U
53-70-3	Dibenz (a,h) anthracene	63	< 63 U
191-24-2	Benzo (g,h,i) perylene	63	< 63 U
90-12-0	1-Methylnaphthalene	63	< 63 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	49.6%	2-Fluorobiphenyl	59.2%
d14-p-Terphenyl	70.4%	d4-1,2-Dichlorobenzene	59.6%
d5-Phenol	50.7%	2-Fluorophenol	16.8%
2,4,6-Tribromophenol	82.4%	d4-2-Chlorophenol	57.9%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: TP-13-8
DILUTION

Lab Sample ID: MK75K
LIMS ID: 08-3946
Matrix: Soil
Data Release Authorized: **VTS**
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/11/08 01:42
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.91 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 3.00
Percent Moisture: 7.2%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	190	< 190 U
111-44-4	Bis-(2-Chloroethyl) Ether	190	< 190 U
95-57-8	2-Chlorophenol	190	< 190 U
541-73-1	1,3-Dichlorobenzene	190	< 190 U
106-46-7	1,4-Dichlorobenzene	190	< 190 U
100-51-6	Benzyl Alcohol	950	< 950 U
95-50-1	1,2-Dichlorobenzene	190	< 190 U
95-48-7	2-Methylphenol	190	< 190 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	190	< 190 U
106-44-5	4-Methylphenol	190	< 190 U
621-64-7	N-Nitroso-Di-N-Propylamine	950	< 950 U
67-72-1	Hexachloroethane	190	< 190 U
98-95-3	Nitrobenzene	190	< 190 U
78-59-1	Isophorone	190	< 190 U
88-75-5	2-Nitrophenol	950	< 950 U
105-67-9	2,4-Dimethylphenol	190	< 190 U
65-85-0	Benzoic Acid	1,900	< 1,900 U
111-91-1	bis(2-Chloroethoxy) Methane	190	< 190 U
120-83-2	2,4-Dichlorophenol	950	< 950 U
120-82-1	1,2,4-Trichlorobenzene	190	< 190 U
91-20-3	Naphthalene	190	< 190 U
106-47-8	4-Chloroaniline	950	< 950 U
87-68-3	Hexachlorobutadiene	190	< 190 U
59-50-7	4-Chloro-3-methylphenol	950	< 950 U
91-57-6	2-Methylnaphthalene	190	< 190 U
77-47-4	Hexachlorocyclopentadiene	950	< 950 U
88-06-2	2,4,6-Trichlorophenol	950	< 950 U
95-95-4	2,4,5-Trichlorophenol	950	< 950 U
91-58-7	2-Chloronaphthalene	190	< 190 U
88-74-4	2-Nitroaniline	950	< 950 U
131-11-3	Dimethylphthalate	190	< 190 U
208-96-8	Acenaphthylene	190	< 190 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: TP-13-8
DILUTION

Lab Sample ID: MK75K
LIMS ID: 08-3946
Matrix: Soil
Date Analyzed: 03/11/08 01:42

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	950	< 950 U
83-32-9	Acenaphthene	190	< 190 U
51-28-5	2,4-Dinitrophenol	1,900	< 1,900 U
100-02-7	4-Nitrophenol	950	< 950 U
132-64-9	Dibenzofuran	190	< 190 U
606-20-2	2,6-Dinitrotoluene	950	< 950 U
121-14-2	2,4-Dinitrotoluene	950	< 950 U
84-66-2	Diethylphthalate	190	< 190 U
7005-72-3	4-Chlorophenyl-phenylether	190	< 190 U
86-73-7	Fluorene	190	< 190 U
100-01-6	4-Nitroaniline	950	< 950 U
534-52-1	4,6-Dinitro-2-Methylphenol	1,900	< 1,900 U
86-30-6	N-Nitrosodiphenylamine	190	< 190 U
101-55-3	4-Bromophenyl-phenylether	190	< 190 U
118-74-1	Hexachlorobenzene	190	< 190 U
87-86-5	Pentachlorophenol	950	< 950 U
85-01-8	Phenanthrene	190	< 190 U
86-74-8	Carbazole	190	< 190 U
120-12-7	Anthracene	190	< 190 U
84-74-2	Di-n-Butylphthalate	190	< 190 U
206-44-0	Fluoranthene	190	< 190 U
129-00-0	Pyrene	190	< 190 U
85-68-7	Butylbenzylphthalate	190	< 190 U
91-94-1	3,3'-Dichlorobenzidine	950	< 950 U
56-55-3	Benzo (a) anthracene	190	< 190 U
117-81-7	bis (2-Ethylhexyl) phthalate	190	< 190 U
218-01-9	Chrysene	190	< 190 U
117-84-0	Di-n-Octyl phthalate	190	< 190 U
205-99-2	Benzo (b) fluoranthene	190	< 190 U
207-08-9	Benzo (k) fluoranthene	190	< 190 U
50-32-8	Benzo (a) pyrene	190	< 190 U
193-39-5	Indeno (1,2,3-cd) pyrene	190	< 190 U
53-70-3	Dibenz (a, h) anthracene	190	< 190 U
191-24-2	Benzo (g, h, i) perylene	190	< 190 U
90-12-0	1-Methylnaphthalene	190	< 190 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.0%	2-Fluorobiphenyl	62.9%
d14-p-Terphenyl	62.2%	d4-1,2-Dichlorobenzene	67.7%
d5-Phenol	48.3%	2-Fluorophenol	31.8%
2,4,6-Tribromophenol	72.7%	d4-2-Chlorophenol	55.7%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 3

Sample ID: LCS-030608
LAB CONTROL

Lab Sample ID: LCS-030608
LIMS ID: 08-3937
Matrix: Soil
Data Release Authorized: *VTS*
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/08/08 05:10
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Phenol	1190	1670	71.3%
Bis-(2-Chloroethyl) Ether	1050	1670	62.9%
2-Chlorophenol	1100	1670	65.9%
1,3-Dichlorobenzene	989	1670	59.2%
1,4-Dichlorobenzene	987	1670	59.1%
Benzyl Alcohol	1550	3330	46.5%
1,2-Dichlorobenzene	1000	1670	59.9%
2-Methylphenol	1160	1670	69.5%
2,2'-Oxybis(1-Chloropropane)	1090	1670	65.3%
4-Methylphenol	2310	3330	69.4%
N-Nitroso-Di-N-Propylamine	1160	1670	69.5%
Hexachloroethane	990	1670	59.3%
Nitrobenzene	1040	1670	62.3%
Isophorone	1250	1670	74.9%
2-Nitrophenol	1120	1670	67.1%
2,4-Dimethylphenol	1110	1670	66.5%
Benzoic Acid	3820	5000	76.4%
bis(2-Chloroethoxy) Methane	1120	1670	67.1%
2,4-Dichlorophenol	1160	1670	69.5%
1,2,4-Trichlorobenzene	1040	1670	62.3%
Naphthalene	1050	1670	62.9%
4-Chloroaniline	2160	4000	54.0%
Hexachlorobutadiene	1020	1670	61.1%
4-Chloro-3-methylphenol	1270	1670	76.0%
2-Methylnaphthalene	1130	1670	67.7%
Hexachlorocyclopentadiene	3630	5000	72.6%
2,4,6-Trichlorophenol	1230	1670	73.7%
2,4,5-Trichlorophenol	1140	1670	68.3%
2-Chloronaphthalene	1100	1670	65.9%
2-Nitroaniline	1260	1670	75.4%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 3Sample ID: LCS-030608
LAB CONTROLLab Sample ID: LCS-030608
LIMS ID: 08-3937
Matrix: Soil
Date Analyzed: 03/08/08 05:10QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

Analyte	Lab Control	Spike Added	Recovery
Dimethylphthalate	1260	1670	75.4%
Acenaphthylene	1170	1670	70.1%
3-Nitroaniline	2820	4270	66.0%
Acenaphthene	1170	1670	70.1%
2,4-Dinitrophenol	4510	5000	90.2%
4-Nitrophenol	1320	1670	79.0%
Dibenzofuran	1220	1670	73.1%
2,6-Dinitrotoluene	1310	1670	78.4%
2,4-Dinitrotoluene	1460	1670	87.4%
Diethylphthalate	1370	1670	82.0%
4-Chlorophenyl-phenylether	1240	1670	74.3%
Fluorene	1230	1670	73.7%
4-Nitroaniline	1260	1670	75.4%
4,6-Dinitro-2-Methylphenol	3640	5000	72.8%
N-Nitrosodiphenylamine	1550	1670	92.8%
4-Bromophenyl-phenylether	1160	1670	69.5%
Hexachlorobenzene	1140	1670	68.3%
Pentachlorophenol	1200	1670	71.9%
Phenanthrene	1160	1670	69.5%
Carbazole	1240	1670	74.3%
Anthracene	1190	1670	71.3%
Di-n-Butylphthalate	1340	1670	80.2%
Fluoranthene	1270	1670	76.0%
Pyrene	1240	1670	74.3%
Butylbenzylphthalate	1300	1670	77.8%
3,3'-Dichlorobenzidine	2350	4270	55.0%
Benzo(a)anthracene	1120	1670	67.1%
bis(2-Ethylhexyl)phthalate	1350	1670	80.8%
Chrysene	1210	1670	72.5%
Di-n-Octyl phthalate	1210	1670	72.5%
Benzo(b)fluoranthene	1220	1670	73.1%
Benzo(k)fluoranthene	1290	1670	77.2%
Benzo(a)pyrene	1240	1670	74.3%
Indeno(1,2,3-cd)pyrene	1000	1670	59.9%
Dibenz(a,h)anthracene	1010	1670	60.5%
Benzo(g,h,i)perylene	953	1670	57.1%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 3 of 3

Sample ID: LCS-030608
LAB CONTROL

Lab Sample ID: LCS-030608
LIMS ID: 08-3937
Matrix: Soil
Date Analyzed: 03/08/08 05:10

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

Analyte	Lab Control	Spike Added	Recovery
1-Methylnaphthalene	1160	1670	69.5%

Semivolatile Surrogate Recovery

d5-Nitrobenzene	70.0%
2-Fluorobiphenyl	70.4%
d14-p-Terphenyl	81.2%
d4-1,2-Dichlorobenzene	62.8%
d5-Phenol	68.3%
2-Fluorophenol	25.1%
2,4,6-Tribromophenol	82.9%
d4-2-Chlorophenol	69.3%

Results reported in $\mu\text{g}/\text{kg}$

ORGANICS ANALYSIS DATA SHEET

PCB by GC/ECD Method SW8082

Page 1 of 1

Sample ID: MB-030508

METHOD BLANK

Lab Sample ID: MB-030508

LIMS ID: 08-3946

Matrix: Soil

Data Release Authorized: *AB*

Reported: 03/13/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: NA

Date Received: NA

Date Extracted: 03/05/08

Date Analyzed: 03/07/08 11:58

Instrument/Analyst: ECD5/JGR

GPC Cleanup: No

Sulfur Cleanup: Yes

Acid Cleanup: Yes

Florisil Cleanup: No

Sample Amount: 12.0 g

Final Extract Volume: 4.0 mL

Dilution Factor: 1.00

Silica Gel: No

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	83.0%
Tetrachlorometaxylene	77.2%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: TP-9-13
SAMPLE

Lab Sample ID: MK75C
LIMS ID: 08-3938
Matrix: Soil
Data Release Authorized: 
Reported: 03/13/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/05/08
Date Analyzed: 03/07/08 12:32
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: 7.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	88.8%
Tetrachlorometaxylene	80.8%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: TP-9-1.5
SAMPLE

Lab Sample ID: MK75D

QC Report No: MK75-Parametrix, Inc.

LIMS ID: 08-3939

Project: Yakima

Matrix: Soil

555-5753-001

Data Release Authorized: 

Date Sampled: 02/27/08

Reported: 03/13/08

Date Received: 02/28/08

Date Extracted: 03/05/08

Sample Amount: 12.2 g-dry-wt

Date Analyzed: 03/07/08 12:49

Final Extract Volume: 4.0 mL

Instrument/Analyst: ECD5/JGR

Dilution Factor: 1.00

GPC Cleanup: No

Silica Gel: No

Sulfur Cleanup: Yes

Percent Moisture: 12.7%

Acid Cleanup: Yes

Florisil Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	84.8%
Tetrachlorometaxylene	77.8%

ORGANICS ANALYSIS DATA SHEET

PCB by GC/ECD Method SW8082

Page 1 of 1

Sample ID: TP-13-8

SAMPLE

Lab Sample ID: MK75K

QC Report No: MK75-Parametrix, Inc.

LIMS ID: 08-3946

Project: Yakima

Matrix: Soil

555-5753-001

Data Release Authorized: 

Date Sampled: 02/27/08

Reported: 03/13/08

Date Received: 02/28/08

Date Extracted: 03/05/08

Sample Amount: 12.1 g-dry-wt

Date Analyzed: 03/07/08 13:06

Final Extract Volume: 4.0 mL

Instrument/Analyst: ECD5/JGR

Dilution Factor: 1.00

GPC Cleanup: No

Silica Gel: No

Sulfur Cleanup: Yes

Percent Moisture: 7.2%

Acid Cleanup: Yes

Florisil Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	83.2%
Tetrachlorometaxylene	73.5%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: TP-13-8
MATRIX SPIKE

Lab Sample ID: MK75K
LIMS ID: 08-3946
Matrix: Soil
Data Release Authorized: 
Reported: 03/13/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/05/08
Date Analyzed: 03/07/08 13:23
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisol Cleanup: No

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: 7.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	---
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	---
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	83.2%
Tetrachlorometaxylene	75.5%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: TP-13-8
MATRIX SPIKE DUP

Lab Sample ID: MK75K
LIMS ID: 08-3946
Matrix: Soil
Data Release Authorized: 
Reported: 03/13/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/05/08
Date Analyzed: 03/07/08 13:41
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.1 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: 7.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	---
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	---
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	82.8%
Tetrachlorometaxylene	77.2%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: TP-13-8
MS/MSD

Lab Sample ID: MK75K
LIMS ID: 08-3946
Matrix: Soil
Data Release Authorized: *AB*
Reported: 03/13/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted MS/MSD: 03/05/08

Sample Amount MS: 12.1 g-dry-wt
MSD: 12.1 g-dry-wt

Date Analyzed MS: 03/07/08 13:23
MSD: 03/07/08 13:41

Final Extract Volume MS: 4.0 mL
MSD: 4.0 mL

Instrument/Analyst MS: ECD5/JGR
MSD: ECD5/JGR

Dilution Factor MS: 1.00
MSD: 1.00

GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Silica Gel: No

Percent Moisture: 7.2%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 33.1 U	122	166	73.5%	123	165	74.5%	0.8%
Aroclor 1260	< 33.1 U	132	166	79.5%	135	165	81.8%	2.2%

Results reported in $\mu\text{g}/\text{kg}$ (ppb)
RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LCS-030508
LAB CONTROL

Lab Sample ID: LCS-030508
LIMS ID: 08-3946
Matrix: Soil
Data Release Authorized: 
Reported: 03/13/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: NA
Date Received: NA

Date Extracted: 03/05/08
Date Analyzed: 03/07/08 12:15
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.0 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	136	167	81.4%
Aroclor 1260	145	167	86.8%

PCB Surrogate Recovery

Decachlorobiphenyl	89.5%
Tetrachlorometaxylene	79.8%

Results reported in $\mu\text{g}/\text{kg}$ (ppb)

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 2
Matrix: Soil

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Received: 02/28/08

Data Release Authorized:
Reported: 03/11/08 

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MK75A 08-3936	TP-8-12.5 HC ID: ---	03/03/08	03/05/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.9 14	< 6.9 U < 14 U 79.3%
MB-030308 08-3937	Method Blank HC ID: ---	03/03/08	03/05/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.0 10	< 5.0 U < 10 U 80.0%
MK75B 08-3937	TP-8-2 HC ID: DRO/MOTOR OIL	03/03/08	03/05/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	7.3 15	110 430 78.7%
MK75C 08-3938	TP-9-13 HC ID: RRO	03/03/08	03/05/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.4 11	< 5.4 U 14 76.9%
MK75D 08-3939	TP-9-1.5 HC ID: DRO/MOTOR OIL	03/03/08	03/05/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.7 11	62 560 79.8%
MK75E 08-3940	TP-10-8 HC ID: DRO/MOTOR OIL	03/03/08	03/06/08 FID3A	1.00 100	Diesel Motor Oil o-Terphenyl	690 1,400	6,300 57,000 D
MK75F 08-3941	TP-10-13 HC ID: DRO/MOTOR OIL	03/03/08	03/06/08 FID3A	1.00 100	Diesel Motor Oil o-Terphenyl	580 1,200	2,400 19,000 D
MK75G 08-3942	TP-11-14 HC ID: DRO/MOTOR OIL	03/03/08	03/05/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	8.0 16	25 130 96.7%
MK75H 08-3943	TP-11-4 HC ID: DRO/RRO	03/03/08	03/06/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.9 14	19 64 80.0%
MK75I 08-3944	TP-12-13 HC ID: DIESEL	03/03/08	03/05/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.5 13	7,100 E 730 NR
MK75I DL 08-3944	TP-12-13 HC ID: DIESEL	03/03/08	03/06/08 FID3A	1.00 100	Diesel Motor Oil o-Terphenyl	650 1,300	7,200 < 1,300 U D
MK75J 08-3945	TP-12D-13 HC ID: DIESEL	03/03/08	03/05/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	7.0 14	3,200 E 690 NR
MK75J DL 08-3945	TP-12D-13 HC ID: DIESEL	03/03/08	03/06/08 FID3A	1.00 100	Diesel Motor Oil o-Terphenyl	700 1,400	3,600 < 1,400 U D

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 2 of 2
Matrix: Soil

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Received: 02/28/08

Data Release Authorized: 
Reported: 03/11/08

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MK75K	TP-13-8	03/03/08	03/06/08	1.00	Diesel	5.4	< 5.4 U
08-3946	HC ID: ---		FID3A	1.0	Motor Oil o-Terphenyl	11	< 11 U 76.4%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID

Page 1 of 1

Sample ID: TP-8-2

MS/MSD

Lab Sample ID: MK75B

LIMS ID: 08-3937

Matrix: Soil

Data Release Authorized: 

Reported: 03/11/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Date Extracted MS/MSD: 03/03/08

Sample Amount MS: 6.85 g-dry-wt

MSD: 6.85 g-dry-wt

Date Analyzed MS: 03/05/08 12:42

Final Extract Volume MS: 1.0 mL

MSD: 03/05/08 12:58

MSD: 1.0 mL

Instrument/Analyst MS: FID3A/MS

Dilution Factor MS: 1.00

MSD: FID3A/MS

MSD: 1.00

Percent Moisture: 31.5%

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	110	252	219	64.8%	227	219	53.4%	10.4%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	71.6%	63.8%

Results reported in mg/kg

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID

Page 1 of 1

Sample ID: LCS-030308

LAB CONTROL

Lab Sample ID: LCS-030308

LIMS ID: 08-3937

Matrix: Soil

Data Release Authorized: *[Signature]*

Reported: 03/11/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: NA

Date Received: NA

Date Extracted: 03/03/08

Date Analyzed: 03/05/08 08:03

Instrument/Analyst: FID3A/MS

Sample Amount: 10.0 g

Final Extract Volume: 1.0 mL

Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	110	150	73.3%

TPHD Surrogate Recovery

o-Terphenyl	102%
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Results reported in mg/kg

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a062.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/06/2008
Macro: FID:3A022908

ARI ID: MK75MBSS1
Client ID:
Injection: 05-MAR-2008 07:48
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.770	-0.002	20502	8952	GAS (Tol-C12)	598854	15
C8	1.963	0.002	8056	7801	DIESEL (C12-C24)	325269	23
C10	2.677	-0.005	6071	6030	M.OIL (C24-C38)	360507	38
C12	3.154	-0.002	5430	1515	AK-102 (C10-C25)	496827	29
C14	3.521	-0.003	4558	3890	AK-103 (C25-C36)	284481	48
C16	3.840	0.000	3845	3580			
C18	4.113	-0.009	3324	1780			
C20	4.381	0.006	3527	1050	JET-A (C10-C18)	389153	27
C22	4.612	0.001	3158	1067	MIN.OIL (C24-C38)	360507	29
C24	4.834	0.000	2955	1643	MSPRIT (Tol-C12)	598854	38
C25	4.950	0.007	2737	1512	TRANOIL (C12-C28)	407874	27
C26	5.045	-0.002	2724	3617	KEROSEN (Tol-C18)	817184	53
C28	5.237	-0.015	5656	6713			
C32	5.657	0.008	6309	8539	FUEL OIL(C10-C24)	496092	1
C34	5.874	-0.004	4430	2386			
Filter Peak	7.599	-0.002	3538	2399	JP-4 (Tol-C14)	699187	62
C36	6.159	-0.004	4019	1836	CREOSOT (C8-C22)	742842	71
C38	6.522	-0.004	3810	2499	HYDRAUL (C24-C38)	360507	41
C40	7.010	0.000	3630	1447	BUNKERC (C10-C38)	856599	164

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

Surrogate	Area	Amount	%Rec
o-Terphenyl	639415	36.0	79.9
Triacontane	609311	40.0	88.9

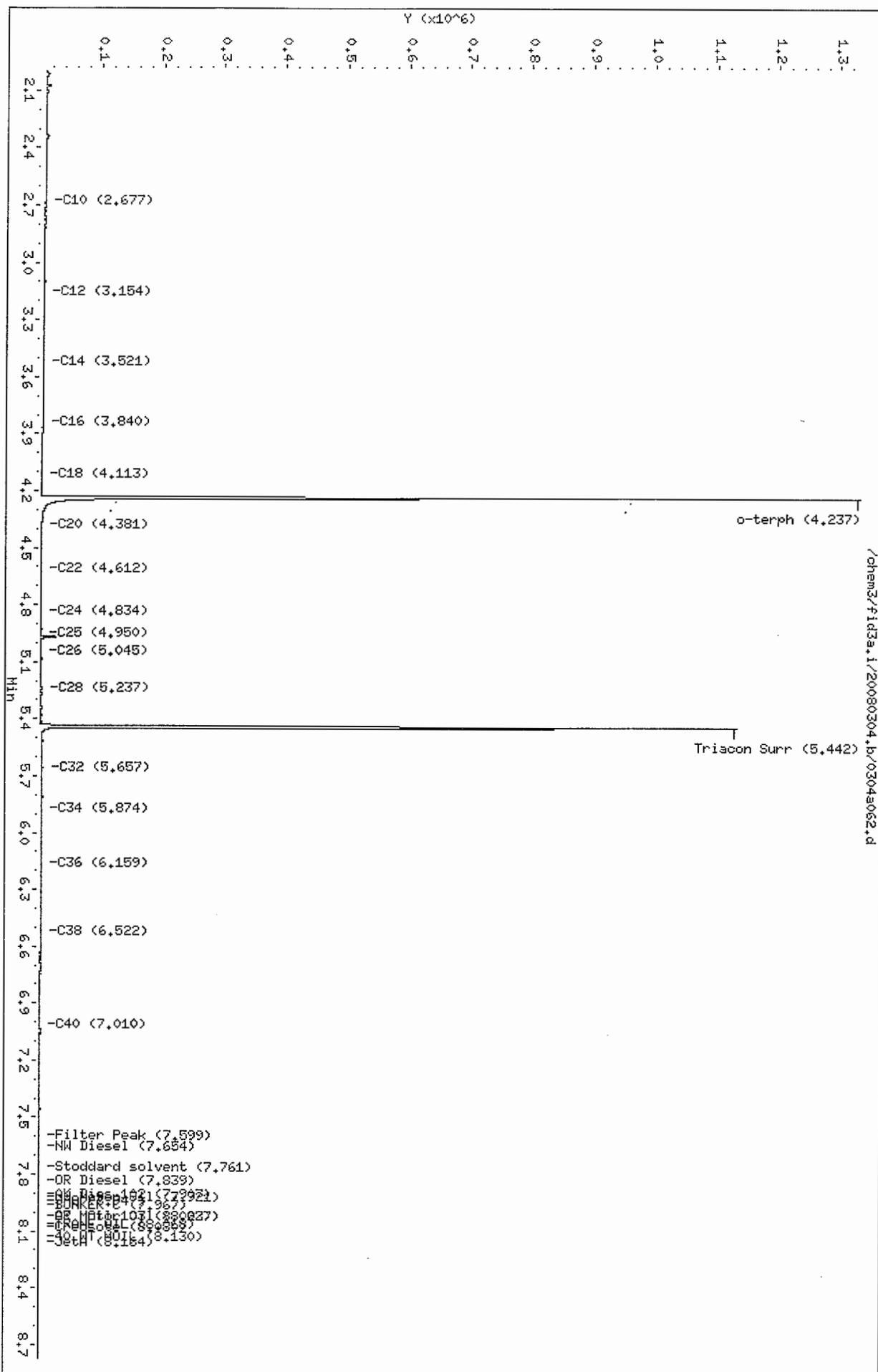
mw 3/11/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080304.b/0304a062.d
Date: 05-MAR-2008 07:48
Client ID:
Sample Info: HK75HBSS1

Column phase: RTX-1

Instrument: fid3a.1
Operator: JR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a063.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/06/2008
Macro: FID:3A022908

ARI ID: MK75LCSS1
Client ID:
Injection: 05-MAR-2008 08:03
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.768	-0.004	22531	14634	GAS (Tol-C12)	3952940	97
C8	1.959	-0.002	12688	11624	DIESEL (C12-C24)	15931242	1102
C10	2.685	0.003	247753	149474	M.OIL (C24-C38)	634278	66
C12	3.156	0.000	554354	270784	AK-102 (C10-C25)	18900957	1104
C14	3.522	-0.001	728468	344080	AK-103 (C25-C36)	548018	93
C16	3.842	0.002	779409	393877			
C18	4.124	0.003	630921	386276			
C20	4.378	0.003	449836	288050	JET-A (C10-C18)	14346831	1009
C22	4.611	0.000	193207	149734	MIN.OIL (C24-C38)	634278	51
C24	4.830	-0.004	82694	82559	MSPIRIT (Tol-C12)	3952940	250
C25	4.936	-0.006	47242	55818	TRANOIL (C12-C28)	16272392	1067
C26	5.041	-0.006	27385	25584	KEROSEN (Tol-C18)	15341155	994
C28	5.241	-0.011	9329	15009			
C32	5.657	0.008	5465	7705	FUEL OIL(C10-C24)	18889858	36
C34	5.876	-0.002	4430	2477			
Filter Peak	7.602	0.000	3388	1889	JP-4 (Tol-C14)	7680810	676
C36	6.160	-0.003	3904	2254	CREOSOT (C8-C22)	19102674	1833
C38	6.529	0.003	3651	1380	HYDRAUL (C24-C38)	634278	71
C40	7.011	0.000	3475	1041	BUNKERC (C10-C38)	19524136	3734

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

Surrogate	Area	Amount	%Rec
o-Terphenyl	814867	45.8	101.8
Triacontane	599489	39.4	87.5

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080304.b/0304a063.d

Date: 05-MAR-2008 08:03

Client ID:

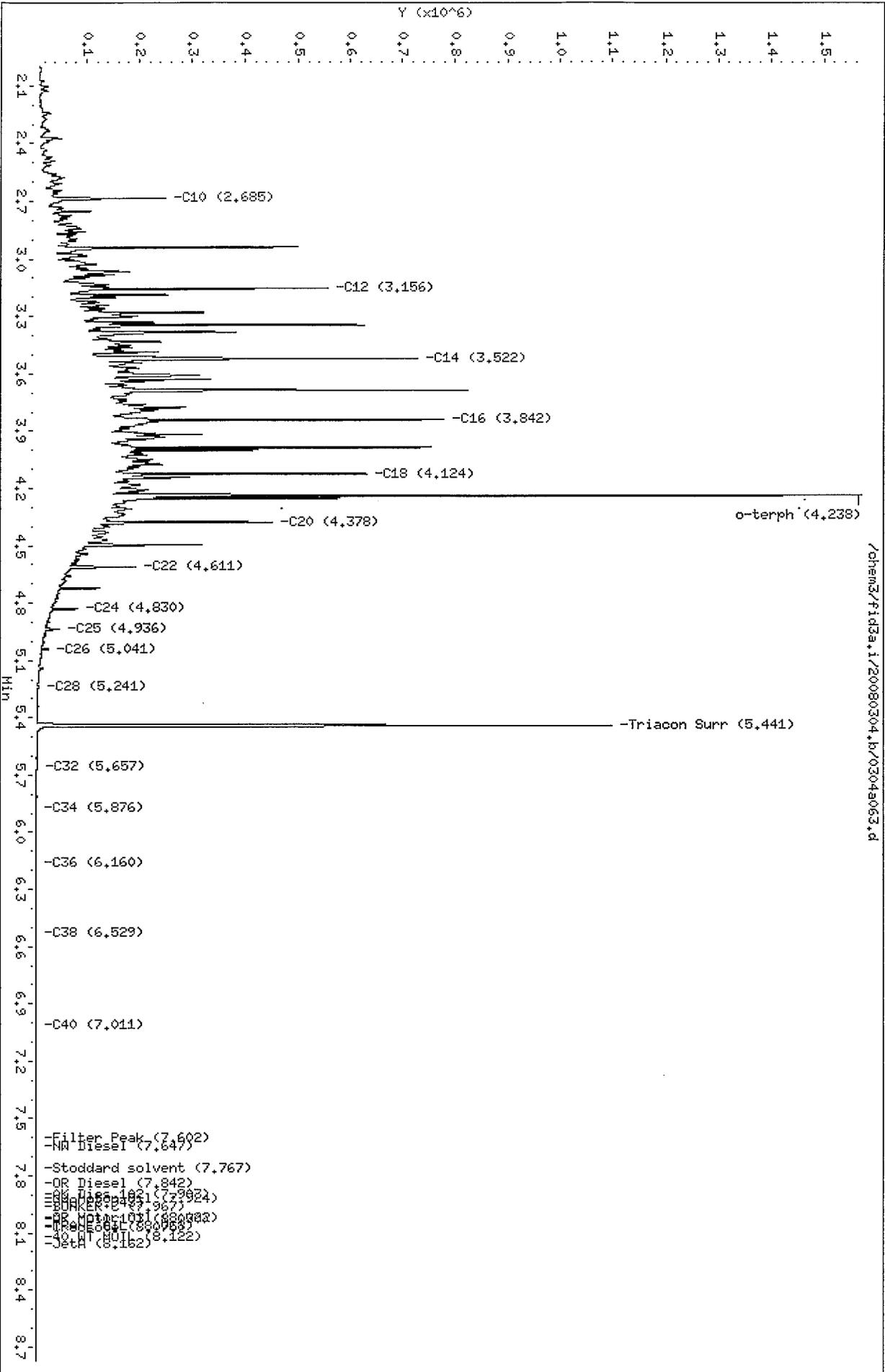
Sample Info: HK75LCSS4

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a081.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/06/2008
Macro: FID:3A022908

ARI ID: MK75BMS
Client ID:
Injection: 05-MAR-2008 12:42
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.773	0.001	20320	7220	GAS (Tol-C12)	4841289	119
C8	1.954	-0.007	12813	11287	DIESEL (C12-C24)	24932486	1725
C10	2.684	0.002	244720	152925	M.OIL (C24-C38)	26648234	2774
C12	3.157	0.001	527669	275818	AK-102 (C10-C25)	29093319	1700
C14	3.523	0.000	716444	344078	AK-103 (C25-C36)	25016601	4224
C16	3.842	0.002	746635	532234			
C18	4.125	0.003	620925	417925			
C20	4.381	0.006	466392	442019	JET-A (C10-C18)	15920555	1119
C22	4.617	0.005	356358	389686	MIN.OIL (C24-C38)	26648234	2133
C24	4.837	0.003	441233	400820	MSPRIT (Tol-C12)	4841289	306
C25	4.943	0.000	2049979	5148606	TRANOIL (C12-C28)	41498992	2722
C26	5.052	0.005	1081599	3326962	KEROSEN (Tol-C18)	16976941	1101
C28	5.266	0.015	1350241	3540546			
C32	5.648	-0.001	161739	102723	FUEL OIL (C10-C24)	28717389	54
C34	5.879	0.001	481710	1000436			
Filter Peak	7.600	-0.001	17964	13568	JP-4 (Tol-C14)	8735031	769
C36	6.167	0.004	79678	39951	CREOSOT (C8-C22)	25133425	2411
C38	6.520	-0.006	79155	84471	HYDRAUL (C24-C38)	26648234	2995
C40	7.022	0.011	126396	288216	BUNKERC (C10-C38)	55365623	10590

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

Surrogate	Area	Amount	%Rec
o-Terphenyl	573481	32.2	71.7
Triacontane	630731	41.4	92.1

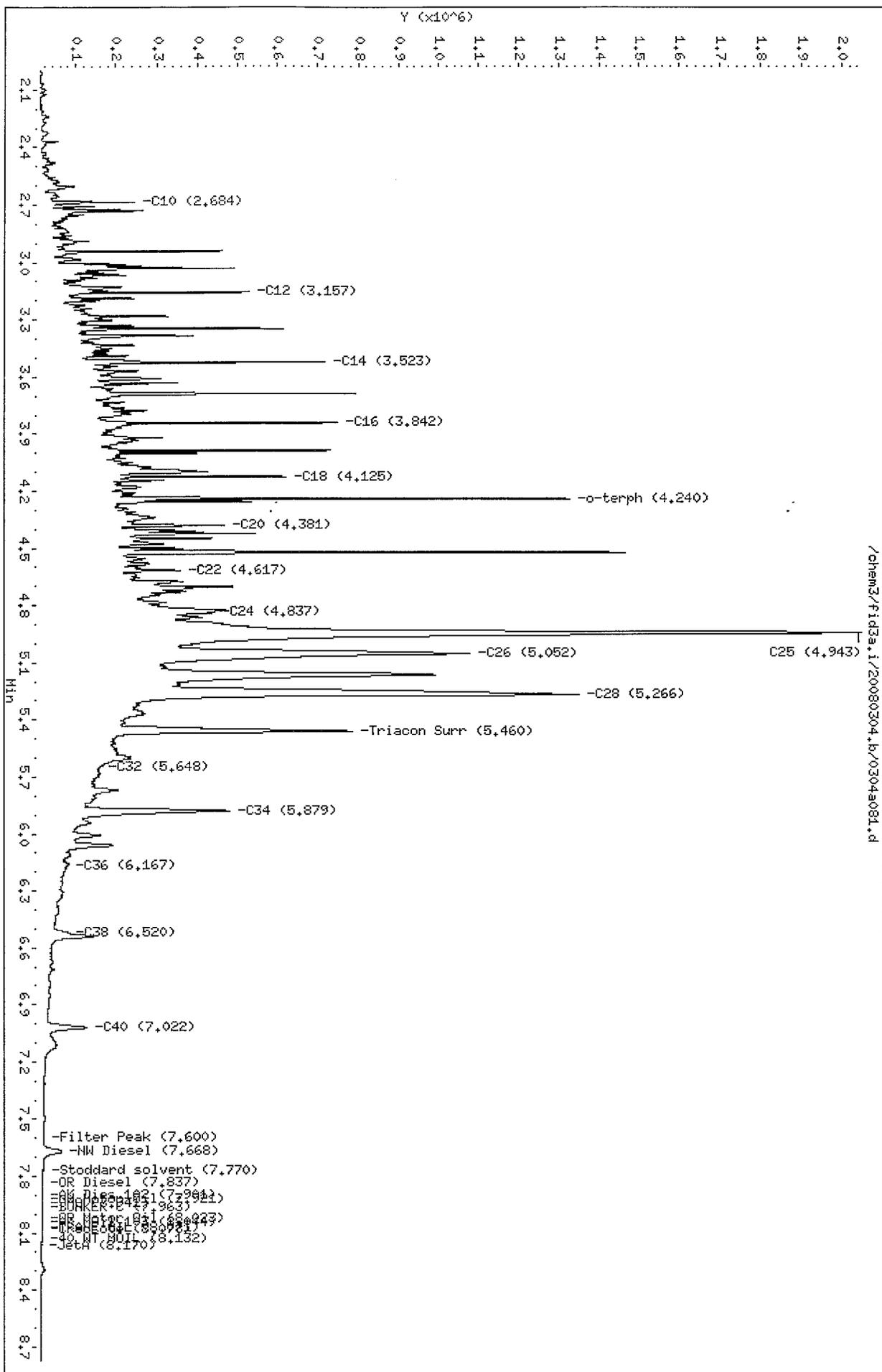
mo 3/11/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080304.b/0304a081.d
Date: 05-MAR-2008 12:42
Client ID:
Sample Info: HK75BHS

Column phase: RTX-1

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a082.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/06/2008
Macro: FID:3A022908

ARI ID: MK75BMSD
Client ID:
Injection: 05-MAR-2008 12:58
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.768	-0.004	19168	9886	GAS (Tol-C12)	4527583	111
C8	1.967	0.006	18789	15115	DIESEL (C12-C24)	22486914	1556
C10	2.685	0.003	220729	137649	M.OIL (C24-C38)	30948466	3222
C12	3.157	0.001	463756	244352	AK-102 (C10-C25)	26396592	1542
C14	3.523	0.000	640700	375713	AK-103 (C25-C36)	28773182	4858
C16	3.842	0.002	651725	346473			
C18	4.125	0.004	567069	388316			
C20	4.381	0.006	423964	385063	JET-A (C10-C18)	14303543	1006
C22	4.617	0.005	327548	329488	MIN.OIL (C24-C38)	30948466	2477
C24	4.838	0.004	424347	457662	MSPIRIT (Tol-C12)	4527583	286
C25	4.940	-0.002	1750029	4841851	TRANOIL (C12-C28)	37822150	2481
C26	5.047	0.000	903109	2152269	KEROSEN (Tol-C18)	15310698	993
C28	5.252	0.000	1027606	1320283			
C32	5.652	0.003	269622	181473	FUEL OIL(C10-C24)	26007343	49
C34	5.879	0.000	471451	713978			
Filter Peak	7.603	0.001	22035	13058	JP-4 (Tol-C14)	7977662	702
C36	6.166	0.003	117070	77560	CREOSOT (C8-C22)	22623009	2170
C38	6.521	-0.005	89466	106260	HYDRAUL (C24-C38)	30948466	3478
C40	7.025	0.015	146176	350045	BUNKERC (C10-C38)	56955809	10894

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

Surrogate	Area	Amount	%Rec
o-Terphenyl	510274	28.7	63.8
Triacontane	583043	38.3	85.1

m.2 3/11/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080304.br/0304a082.d

Date: 05-Mar-2008 12:58

Client ID:

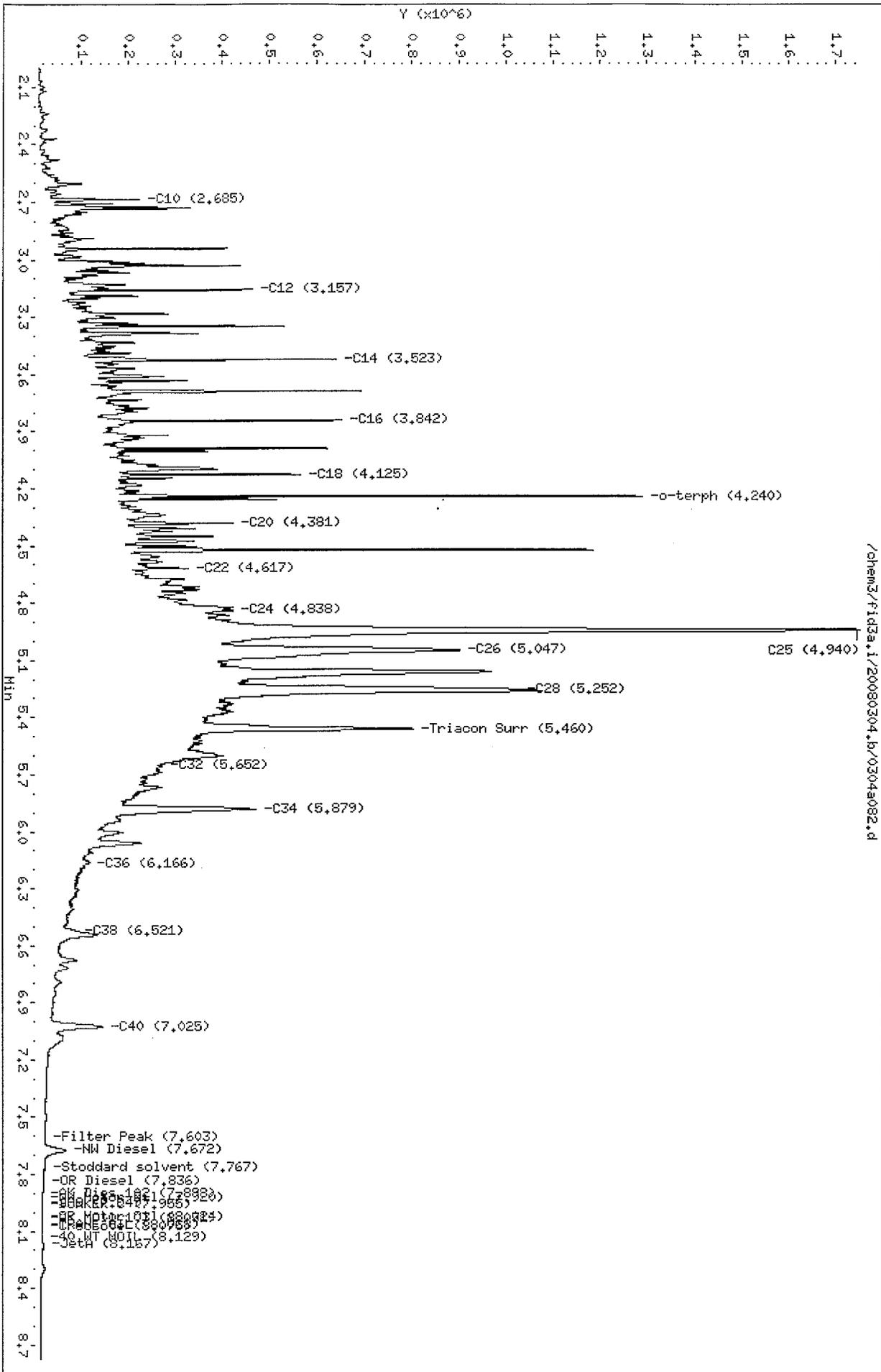
Sample Info: HK75BMSD

Column Phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a079.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/06/2008
Macro: FID:3A022908

ARI ID: MK75A
Client ID:
Injection: 05-MAR-2008 12:11
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.772	0.000	17415	14337	GAS (Tol-C12)	637256	16
C8	1.957	-0.004	8146	14809	DIESEL (C12-C24)	313915	22
C10	2.675	-0.007	6103	7375	M.OIL (C24-C38)	305116	32
C12	3.148	-0.008	5658	4625	AK-102 (C10-C25)	502139	29
C14	3.518	-0.005	4970	2772	AK-103 (C25-C36)	239867	40
C16	3.841	0.001	4081	5957			
C18	4.114	-0.007	3327	3488			
C20	4.385	0.009	3556	1906	JET-A (C10-C18)	411483	29
C22	4.612	0.001	2806	1840	MIN.OIL (C24-C38)	305116	24
C24	4.827	-0.007	2637	3362	MSPIRIT (Tol-C12)	637256	40
C25	4.936	-0.007	2654	1428	TRANOIL (C12-C28)	380185	25
C26	5.053	0.006	2614	2629	KEROSEN (Tol-C18)	861970	56
C28	5.252	0.000	3508	4026			
C32	5.652	0.003	5107	11197	FUEL OIL(C10-C24)	500684	1
C34	5.879	0.000	4155	3867			
Filter Peak	7.602	0.001	3002	657	JP-4 (Tol-C14)	740999	65
C36	6.162	-0.002	3642	1811	CREOSOT (C8-C22)	764284	73
C38	6.534	0.008	3297	1770	HYDRAUL (C24-C38)	305116	34
C40	7.008	-0.003	3117	2112	BUNKERC (C10-C38)	805800	154

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

Surrogate	Area	Amount	%Rec
o-Terphenyl	634113	35.7	79.2
Triacotane	593459	39.0	86.6

mc 3/11/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a080.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/06/2008
Macro: FID:3A022908

ARI ID: MK75B
Client ID:
Injection: 05-MAR-2008 12:27
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.781	0.009	40173	83912	GAS (Tol-C12)	1943951	48
C8	1.967	0.006	7879	1728	DIESEL (C12-C24)	10905675	754
C10	2.685	0.003	14830	9238	M.OIL (C24-C38)	28085166	2924
C12	3.148	-0.008	69157	83348	AK-102 (C10-C25)	12242467	715
C14	3.524	0.001	37965	30855	AK-103 (C25-C36)	26575922	4487
C16	3.845	0.005	25154	22580			
C18	4.123	0.002	46787	17807			
C20	4.374	-0.001	117587	85854	JET-A (C10-C18)	3327205	234
C22	4.608	-0.004	193535	34397	MIN.OIL (C24-C38)	28085166	2248
C24	4.831	-0.004	473688	883149	MSPIRIT (Tol-C12)	1943951	123
C25	4.950	0.007	2051143	5216528	TRANOIL (C12-C28)	27884000	1829
C26	5.058	0.011	1090028	3622734	KEROSEN (Tol-C18)	3934364	255
C28	5.236	-0.016	354446	77727			
C32	5.648	-0.001	187438	153493	FUEL OIL(C10-C24)	12242467	23
C34	5.872	-0.007	137150	51779			
Filter Peak	7.600	-0.001	16406	13609	JP-4 (Tol-C14)	2466851	217
C36	6.171	0.007	81861	55766	CREOSOT (C8-C22)	8615357	827
C38	6.517	-0.009	47996	9486	HYDRAUL (C24-C38)	28085166	3156
C40	7.001	-0.010	26855	10626	BUNKERC (C10-C38)	40327633	7713

DRO MO

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

Surrogate	Area	Amount	%Rec
o-Terphenyl	629091	35.4	78.6
Triacontane	755068	49.6	110.2

mo 3/11/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a083.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/06/2008
Macro: FID:3A022908

ARI ID: MK75C
Client ID:
Injection: 05-MAR-2008 13:14
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.773	0.001	19531	15050	GAS (Tol-C12)	655953	16
C8	1.952	-0.009	8251	10549	DIESEL (C12-C24)	492731	34
C10	2.685	0.002	6021	1322	M.OIL (C24-C38)	1240777	129
C12	3.162	0.006	5560	2218	AK-102 (C10-C25)	681737	40
C14	3.527	0.003	4992	2682	AK-103 (C25-C36)	1012074	171
C16	3.837	-0.003	4564	5140			
C18	4.127	0.005	4783	5490			
C20	4.376	0.000	6043	1809	JET-A (C10-C18)	443908	31
C22	4.615	0.003	7276	6846	MIN.OIL (C24-C38)	1240777	99
C24	4.834	0.000	9157	10201	MSPRIT (Tol-C12)	655953	41
C25	4.931	-0.012	14195	29105	TRANOIL (C12-C28)	716509	47
C26	5.043	-0.004	9756	7900	KEROSEN (Tol-C18)	910855	59
C28	5.244	-0.008	12602	17891			
C32	5.639	-0.010	14738	19761	FUEL OIL(C10-C24)	681737	1
C34	5.869	-0.010	14265	12304			
Filter Peak	7.601	-0.001	8918	3026	JP-4 (Tol-C14)	759106	67
C36	6.158	-0.006	13056	32099	CREOSOT (C8-C22)	881311	85
C38	6.527	0.001	10602	6135	HYDRAUL (C24-C38)	1240777	139
C40	7.001	-0.010	9954	6699	BUNKERC (C10-C38)	1922514	368

pre

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

Surrogate	Area	Amount	%Rec
o-Terphenyl	614640	34.6	76.8
Triacontane	549335	36.1	80.2

Mo. 3/11/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080304.b/0304a083.d

Date: 05-MAR-2008 13:14

Client ID:

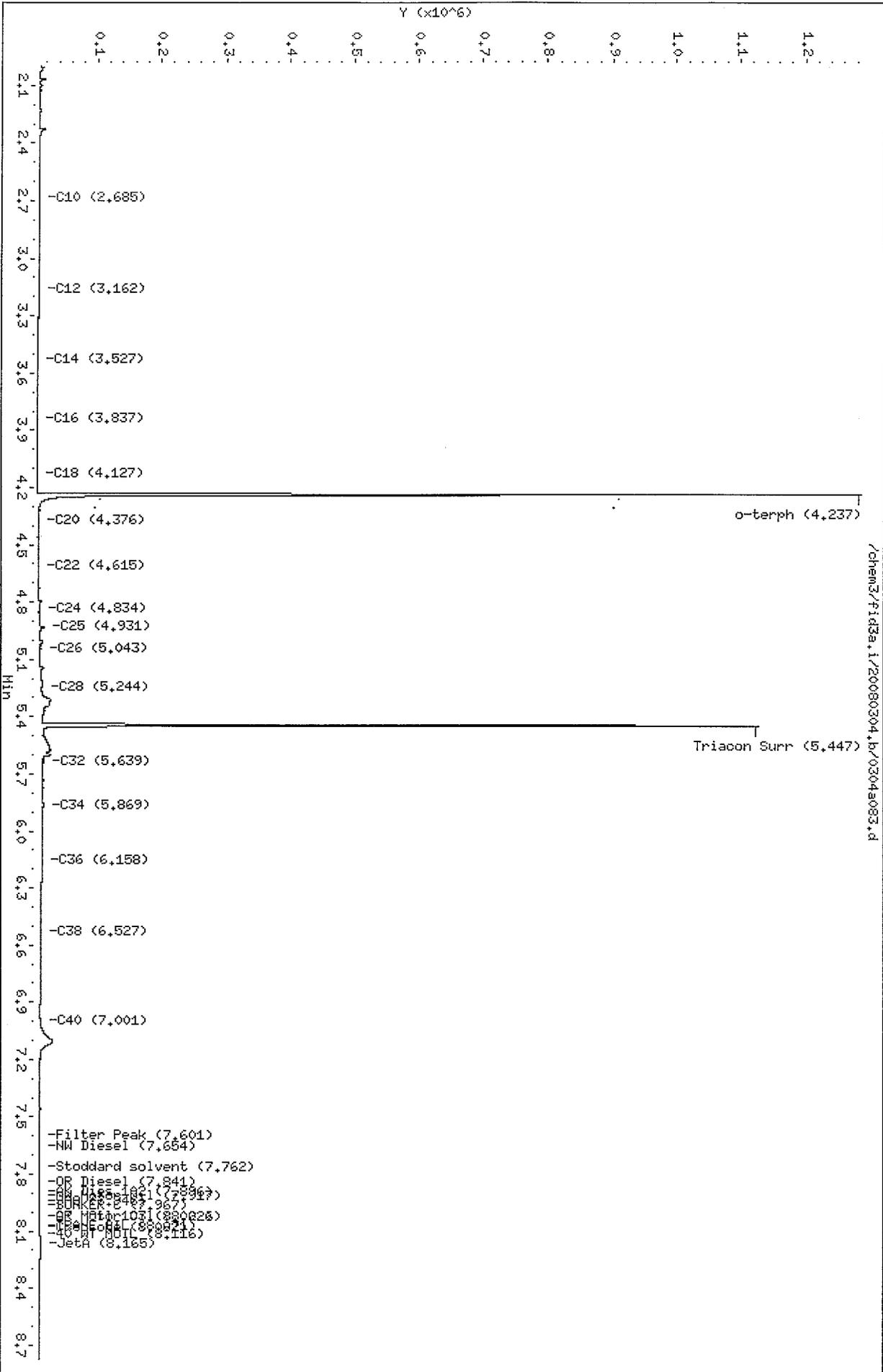
Sample Infol HK75C

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a084.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/11/2008
Macro: FID:3A022908

ARI ID: MK75D
Client ID:
Injection: 05-MAR-2008 13:29
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.769	-0.003	20476	12522	GAS (Tol-C12)	680553	17
C8	1.952	-0.009	7754	10452	DIESEL (C12-C24)	7881881	545
C10	2.678	-0.004	6403	3053	M.OIL (C24-C38)	47127871	4907
C12	3.156	0.000	7602	5430	AK-102 (C10-C25)	8321609	486
C14	3.534	0.011	9839	11847	AK-103 (C25-C36)	43360328	7321
C16	3.845	0.005	13835	15578			
C18	4.125	0.003	22931	20595			
C20	4.380	0.005	61118	74802	JET-A (C10-C18)	886034	62
C22	4.617	0.005	199523	165847	MIN.OIL (C24-C38)	47127871	3772
C24	4.836	0.001	405511	142825	MSPIRIT (Tol-C12)	680553	43
C25	4.943	0.000	513271	213745	TRANOIL (C12-C28)	23007769	1509
C26	5.045	-0.003	592671	188411	KEROSEN (Tol-C18)	1328022	86
C28	5.254	0.002	723974	357563			
C32	5.647	-0.002	634209	332902	FUEL OIL(C10-C24)	8120447	15
C34	5.879	0.000	430868	102259			
Filter Peak	7.607	0.006	28122	26627	JP-4 (Tol-C14)	856136	75
C36	6.162	-0.001	253760	86016	CREOSOT (C8-C22)	3779773	363
C38	6.527	0.001	125318	29593	HYDRAUL (C24-C38)	47127871	5296
C40	7.014	0.003	57558	38306	BUNKERC (C10-C38)	55248317	10567

pre/MO

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

Surrogate	Area	Amount	%Rec
o-Terphenyl	638084	35.9	79.7
Triacontane	495313	32.5	72.3

m.o. 3/11/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080304.b/0304a084.d

Date: 05-MAR-2008 13:29

Client ID:

Sample Info: HK75D

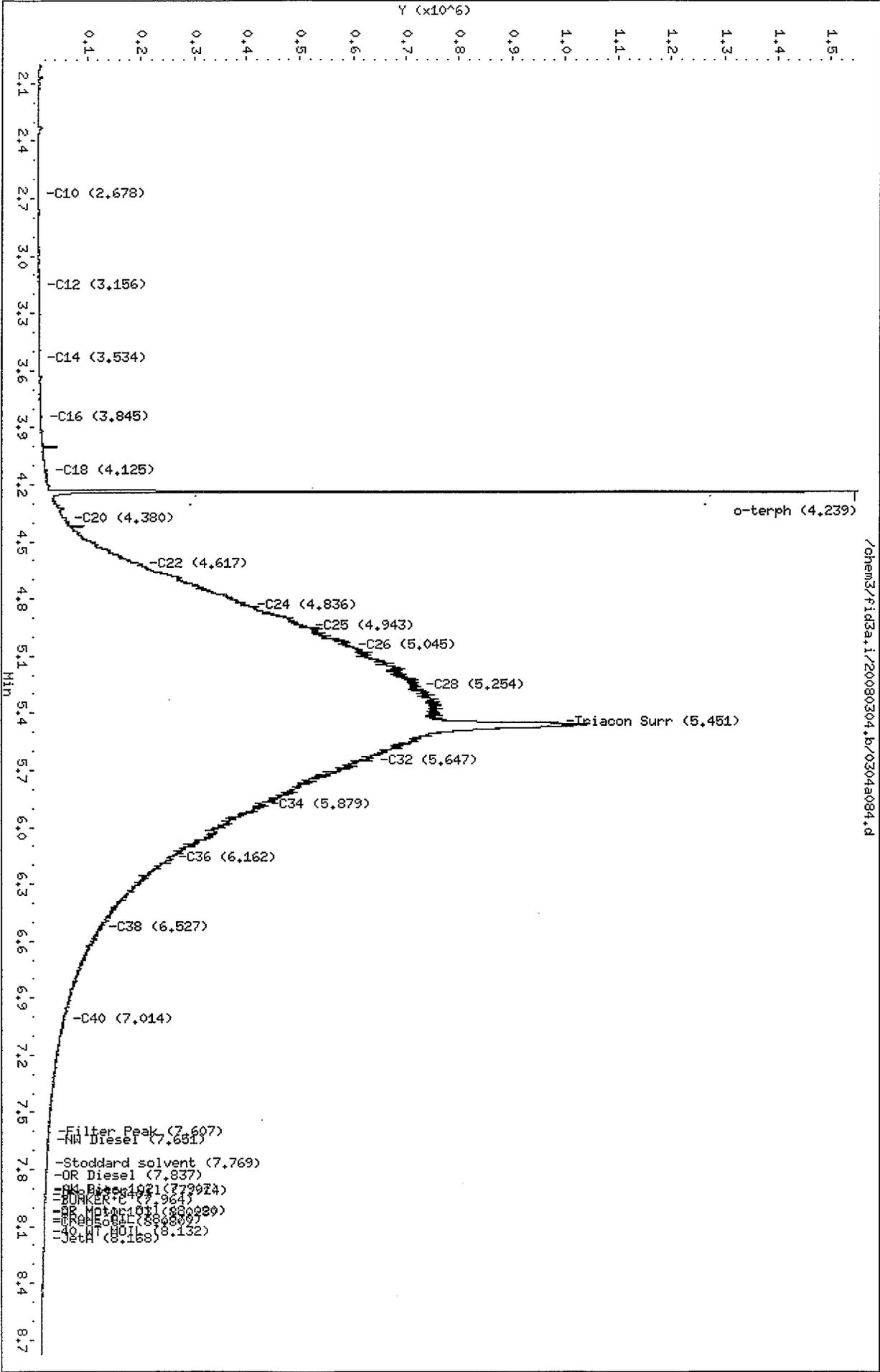
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080306.b/0306a013.d
Method: /chem3/fid3a.i/20080306.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/07/2008
Macro: FID:3A022908

ARI ID: MK75E
Client ID:
Injection: 06-MAR-2008 20:09
Dilution Factor: 100

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.744	-0.027	10032	6404	GAS (Tol-C12)	458206	11
C8	1.958	-0.001	6966	5224	DIESEL (C12-C24)	6590244	456
C10	2.688	0.006	5518	1320	M.OIL (C24-C38)	39687411	4132
C12	3.156	0.000	5549	1769	AK-102 (C10-C25)	6988692	408
C14	3.527	0.002	5430	650	AK-103 (C25-C36)	35687098	6025
C16	3.838	-0.003	14941	13797			
C18	4.117	-0.003	8606	2393			
C20	4.369	-0.006	67104	79844	JET-A (C10-C18)	541175	38
C22	4.607	-0.004	154757	39888	MIN.OIL (C24-C38)	39687411	3177
C24	4.840	0.005	338502	134124	MSPIRIT (Tol-C12)	458206	29
C25	4.943	0.000	421524	186096	TRANOIL (C12-C28)	18731159	1229
C26	5.049	0.002	468317	130243	KEROSEN (Tol-C18)	809049	52
C28	5.249	-0.004	584655	343826			
C32	5.657	0.004	502876	109198	FUEL OIL(C10-C24)	6780577	13
C34	5.886	0.002	352540	207413			
Filter Peak	7.615	0.003	29979	12556	JP-4 (Tol-C14)	571406	50
C36	6.171	0.002	236677	32931	CREOSOT (C8-C22)	2827573	271
C38	6.529	-0.002	145219	68294	HYDRAUL (C24-C38)	39687411	4460
C40	7.015	0.000	67182	35586	BUNKERC (C10-C38)	46467988	8888

Pro/MS

Range Times: NW Diesel(3.206 - 4.885) NW Gas(1.721 - 3.206) NW M.Oil(4.885 - 6.581)
AK102(2.632 - 4.893) AK103(4.893 - 6.220) Jet A(2.632 - 4.170)

Surrogate	Area	Amount	%Rec
o-Terphenyl	0	0.0	0.0
Triacontane	0	0.0	0.0

D
D

m.o. 3/11/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080306.b/0306a013.d

Date: 06-MAR-2008 20:09

Client ID:

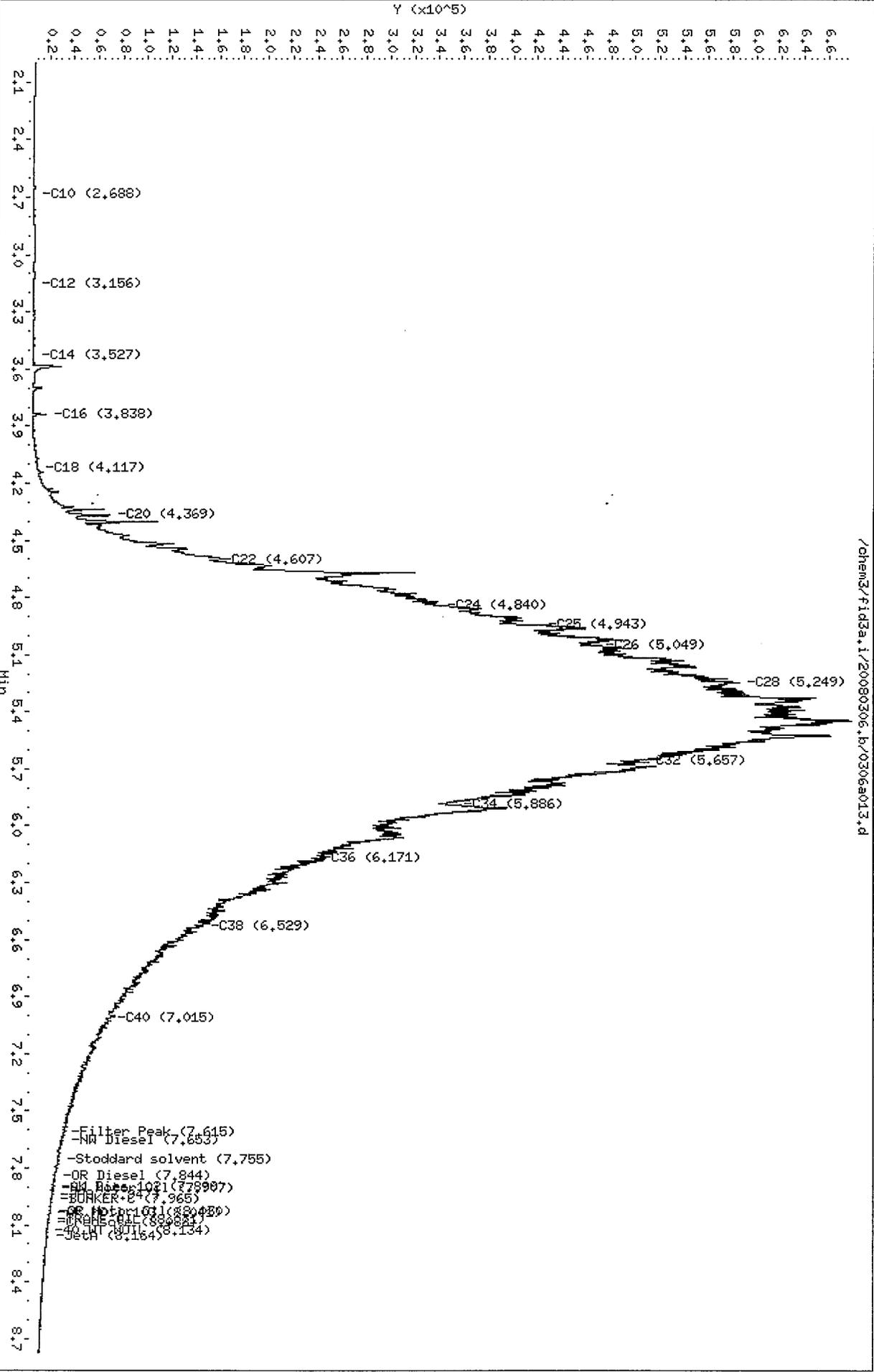
Sample Infol: HK75E,100

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080306.b/0306a014.d
Method: /chem3/fid3a.i/20080306.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/07/2008
Macro: FID:3A022908

ARI ID: MK75F
Client ID:
Injection: 06-MAR-2008 20:25
Dilution Factor: 100

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.777	0.006	9315	7678	GAS (Tol-C12)	446811	11
C8	1.952	-0.007	7021	6789	DIESEL (C12-C24)	2971877	206
C10	2.681	-0.001	5466	3463	M.OIL (C24-C38)	15878442	1653
C12	3.158	0.002	5058	1817	AK-102 (C10-C25)	3137606	183
C14	3.522	-0.003	4789	2392	AK-103 (C25-C36)	14494747	2447
C16	3.840	-0.001	9366	11643			
C18	4.120	-0.001	6027	1561			
C20	4.369	-0.006	29454	24404	JET-A (C10-C18)	434925	31
C22	4.613	0.002	69670	41896	MIN.OIL (C24-C38)	15878442	1271
C24	4.833	-0.001	135918	26911	MSPIRIT (Tol-C12)	446811	28
C25	4.942	-0.001	180632	83857	TRANOIL (C12-C28)	7877066	517
C26	5.047	-0.001	192886	34584	KEROSEN (Tol-C18)	716007	46
C28	5.252	-0.001	230980	50578			
C32	5.648	-0.005	206339	93906	FUEL OIL(C10-C24)	3137606	6
C34	5.883	-0.001	162739	142605			
Filter Peak	7.606	-0.006	14778	5534	JP-4 (Tol-C14)	549160	48
C36	6.166	-0.004	93572	88416	CREOSOT (C8-C22)	1629329	156
C38	6.532	0.000	56045	26985	HYDRAUL (C24-C38)	15878442	1784
C40	7.016	0.001	29025	22451	BUNKERC (C10-C38)	19016048	3637

PRO/MD

Range Times: NW Diesel(3.206 - 4.885) NW Gas(1.721 - 3.206) NW M.Oil(4.885 - 6.581)
AK102(2.632 - 4.893) AK103(4.893 - 6.220) Jet A(2.632 - 4.170)

Surrogate	Area	Amount	%Rec
o-Terphenyl	0	0.0	0.0
Triacontane	0	0.0	0.0

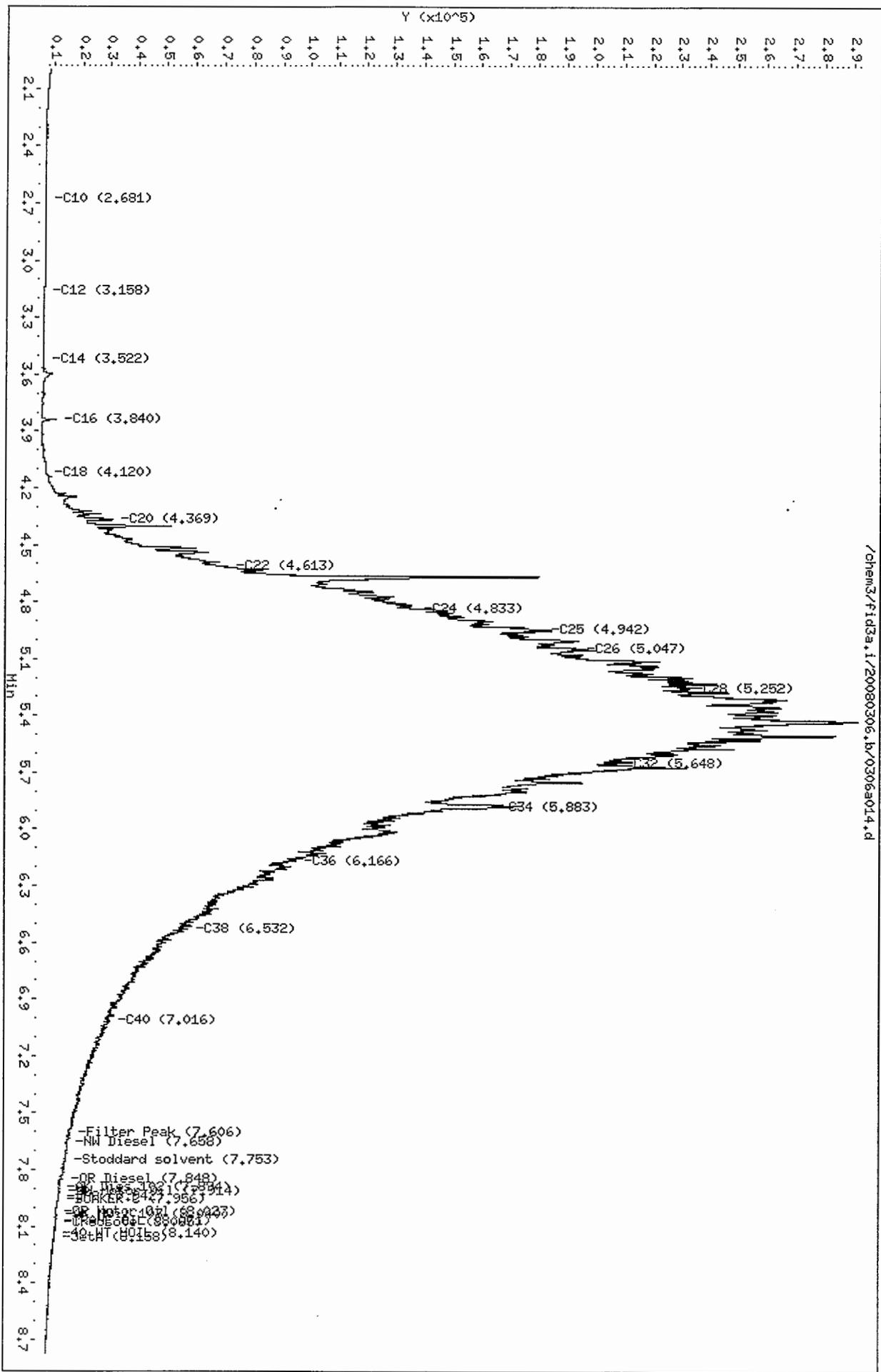
D m.s 3/11/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a,i/20080306,b/0306a014.d
Date: 06-HAR-2008 20:25
Client ID:
Sample Info: HK75F,100

Column phase: RTX-1

Instrument: fid3a,i
Operator: JR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a087.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/06/2008
Macro: FID:3A022908

ARI ID: MK75G
Client ID:
Injection: 05-MAR-2008 14:16
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.770	-0.002	18904	4521	GAS (Tol-C12)	725285	18
C8	1.970	0.010	8084	3859	DIESEL (C12-C24)	2227508	154
C10	2.695	0.013	7522	8483	M.OIL (C24-C38)	8017222	835
C12	3.154	-0.002	6781	2163	AK-102 (C10-C25)	2517645	147
C14	3.528	0.005	8025	10420	AK-103 (C25-C36)	7142826	1206
C16	3.842	0.002	10663	9316			
C18	4.125	0.003	14975	9227			
C20	4.372	-0.003	33035	34000	JET-A (C10-C18)	758591	53
C22	4.613	0.002	41813	17011	MIN.OIL (C24-C38)	8017222	642
C24	4.835	0.001	83639	60129	MSPRIT (Tol-C12)	725285	46
C25	4.937	-0.006	116248	81094	TRANOIL (C12-C28)	4435179	291
C26	5.045	-0.002	86731	64188	KEROSEN (Tol-C18)	1254118	81
C28	5.256	0.004	97933	51819			
C32	5.647	-0.002	87918	19281	FUEL OIL(C10-C24)	2457267	5
C34	5.875	-0.003	136040	73634			
Filter Peak	7.606	0.004	24163	19567	JP-4 (Tol-C14)	869345	77
C36	6.165	0.002	51816	37752	CREOSOT (C8-C22)	1925993	185
C38	6.524	-0.002	32748	14766	HYDRAUL (C24-C38)	8017222	901
C40	7.010	0.000	27449	18483	BUNKERC (C10-C38)	10474488	2003

DPO/MD

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

Surrogate	Area	Amount	%Rec
o-Terphenyl	773269	43.5	96.6
Triacontane	854082	56.1	124.7

m.a. 3/11/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080304.b/0304a087.d

Date: 05-MAR-2008 14:16

Client ID:

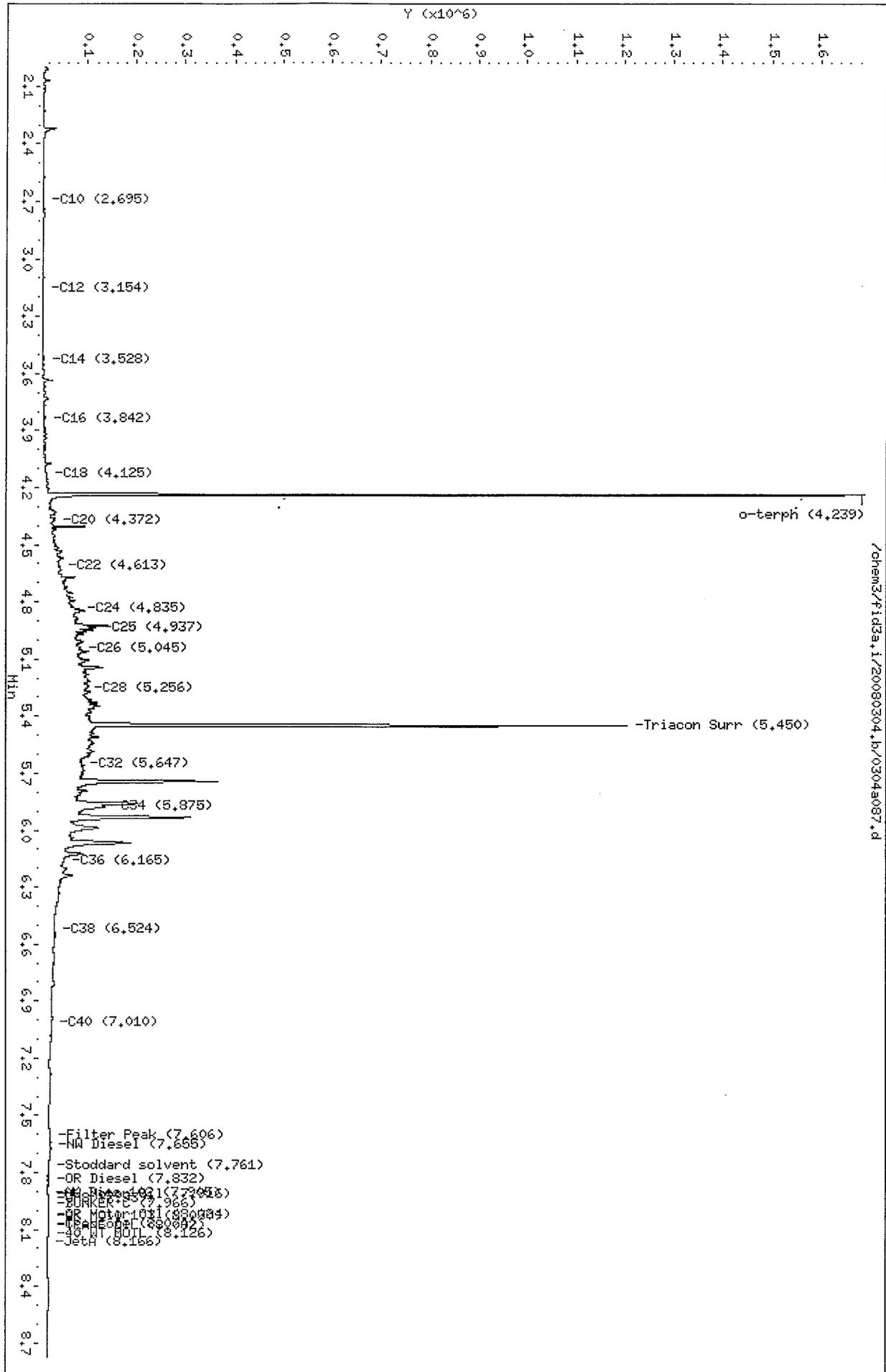
Sample Info: HK75C

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080306.b/0306a015.d
Method: /chem3/fid3a.i/20080306.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/07/2008
Macro: FID:3A022908

ARI ID: MK75H
Client ID:
Injection: 06-MAR-2008 20:40
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.769	-0.002	17860	13997	GAS (Tol-C12)	739890	18
C8	1.933	-0.026	11878	35120	DIESEL (C12-C24)	1959362	136
C10	2.673	-0.008	7490	10239	M.OIL (C24-C38)	4475443	466
C12	3.158	0.002	7549	1955	AK-102 (C10-C25)	2227631	130
C14	3.514	-0.011	8404	8315	AK-103 (C25-C36)	3985816	673
C16	3.841	0.000	8230	8331			
C18	4.126	0.005	11267	9322			
C20	4.368	-0.007	47582	30956	JET-A (C10-C18)	700191	49
C22	4.606	-0.005	37932	38869	MIN.OIL (C24-C38)	4475443	358
C24	4.836	0.002	35765	11106	MSPIRIT (Tol-C12)	739890	47
C25	4.943	0.000	46530	25046	TRANOIL (C12-C28)	3172886	208
C26	5.049	0.001	40203	17482	KEROSEN (Tol-C18)	1210863	78
C28	5.252	-0.001	44698	13266			
C32	5.655	0.002	58642	58753	FUEL OIL(C10-C24)	2188581	4
C34	5.897	0.013	59225	43511			
Filter Peak	7.606	-0.006	8032	2872	JP-4 (Tol-C14)	904991	80
C36	6.174	0.005	30280	30048	CREOSOT (C8-C22)	1927151	185
C38	6.531	0.000	18173	9680	HYDRAUL (C24-C38)	4475443	503
C40	7.012	-0.003	12155	4086	BUNKERC (C10-C38)	6664023	1275

OPRO/PRO

Range Times: NW Diesel(3.206 - 4.885) NW Gas(1.721 - 3.206) NW M.Oil(4.885 - 6.581)
AK102(2.632 - 4.893) AK103(4.893 - 6.220) Jet A(2.632 - 4.170)

Surrogate	Area	Amount	%Rec
o-Terphenyl	640653	36.0	80.1
Triacontane	580985	38.2	84.8

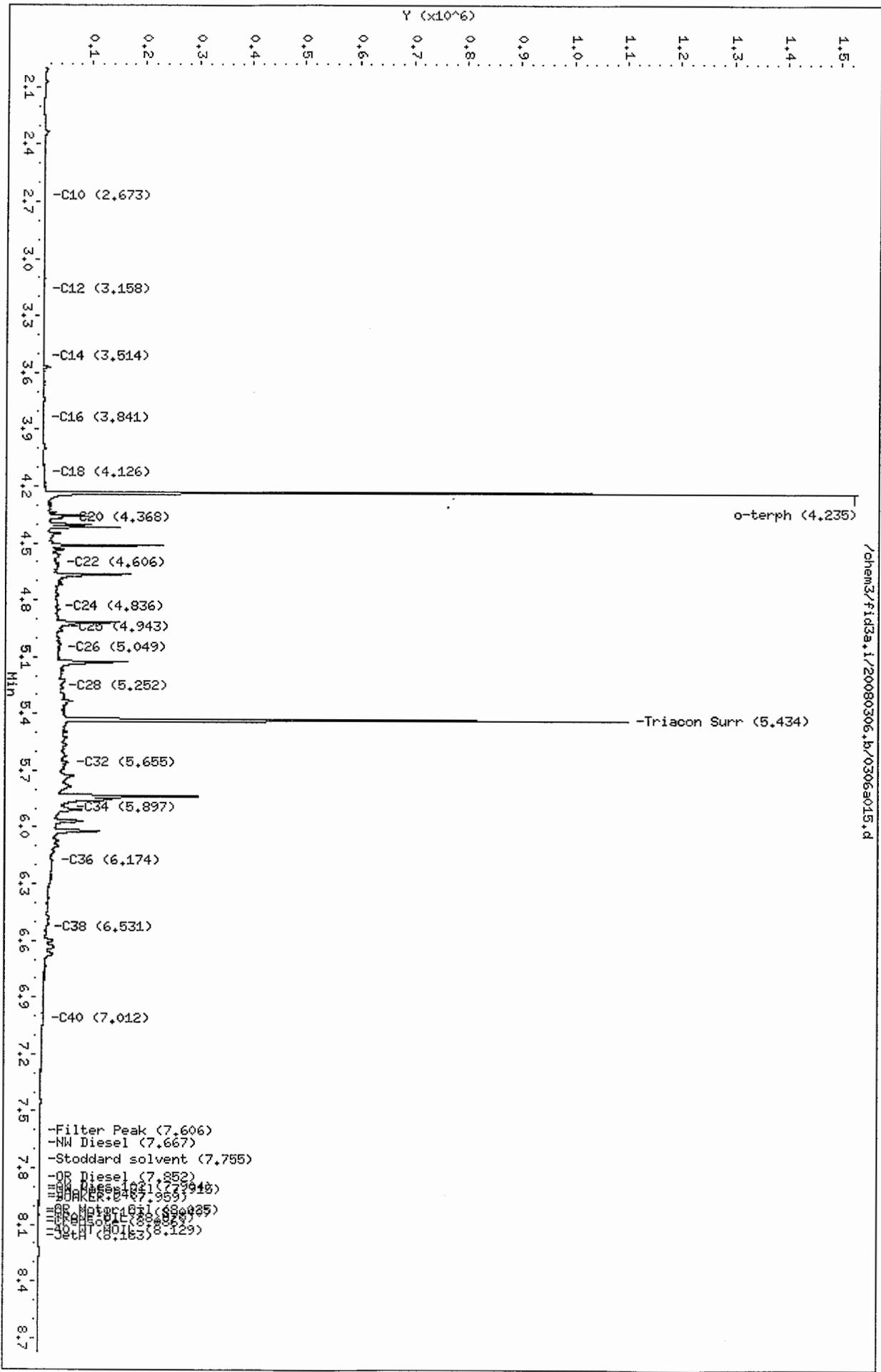
ma. 3/11/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a,i/20080306,b/0306s015.d
Date: 06-MAR-2008 20:40
Client ID:
Sample Info: HK75H

Column phase: RTX-1

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a092.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/07/2008
Macro: FID:3A022908

ARI ID: MK75I
Client ID:
Injection: 05-MAR-2008 15:34
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.762	-0.010	24337	47386	GAS (Tol-C12)	27990429	687
C8	1.959	-0.002	7600	6242	DIESEL (C12-C24)	794295277	54949
C10	2.681	-0.002	97619	66486	M.OIL (C24-C38)	53923542	5614
C12	3.156	0.000	2140912	2636630	AK-102 (C10-C25)	821300111	47982
C14	3.522	-0.002	5016245	1694444	AK-103 (C25-C36)	52897855	8931
C16	3.841	0.000	8515360	2033512			
C18	4.125	0.003	12204786	3871304			
C20	4.374	-0.002	12068637	3112170	JET-A (C10-C18)	434051105	30514
C22	4.609	-0.003	9505064	4883645	MIN.OIL (C24-C38)	53923542	4316
C24	4.839	0.004	3795183	5082981	MSPIRIT (Tol-C12)	27990429	1769
C25	4.949	0.006	2139583	1978645	TRANOIL (C12-C28)	829825183	54431
C26	5.042	-0.005	1571642	1091509	KEROSEN (Tol-C18)	435036700	28201
C28	5.251	-0.001	1014068	357345			
C32	5.654	0.004	284721	50974	FUEL OIL(C10-C24)	821300111	1548
C34	5.886	0.007	261895	252723			
Filter Peak	7.602	0.000	15146	6938	JP-4 (Tol-C14)	110345651	9712
C36	6.162	-0.001	80073	58948	CREOSOT (C8-C22)	762401729	73142
C38	6.531	0.005	54762	72287	HYDRAUL (C24-C38)	53923542	6060
C40	7.016	0.005	60305	68783	BUNKERC (C10-C38)	875223653	167400

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

Surrogate	Area	Amount	%Rec
o-Terphenyl	0	0.0	0.0
Triacontane	0	0.0	0.0

E m.d. 3/11/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a,i/20080304,b/0304a092.d

Date: 05-MAR-2008 15:34

Client ID:

Sample Info: HK751

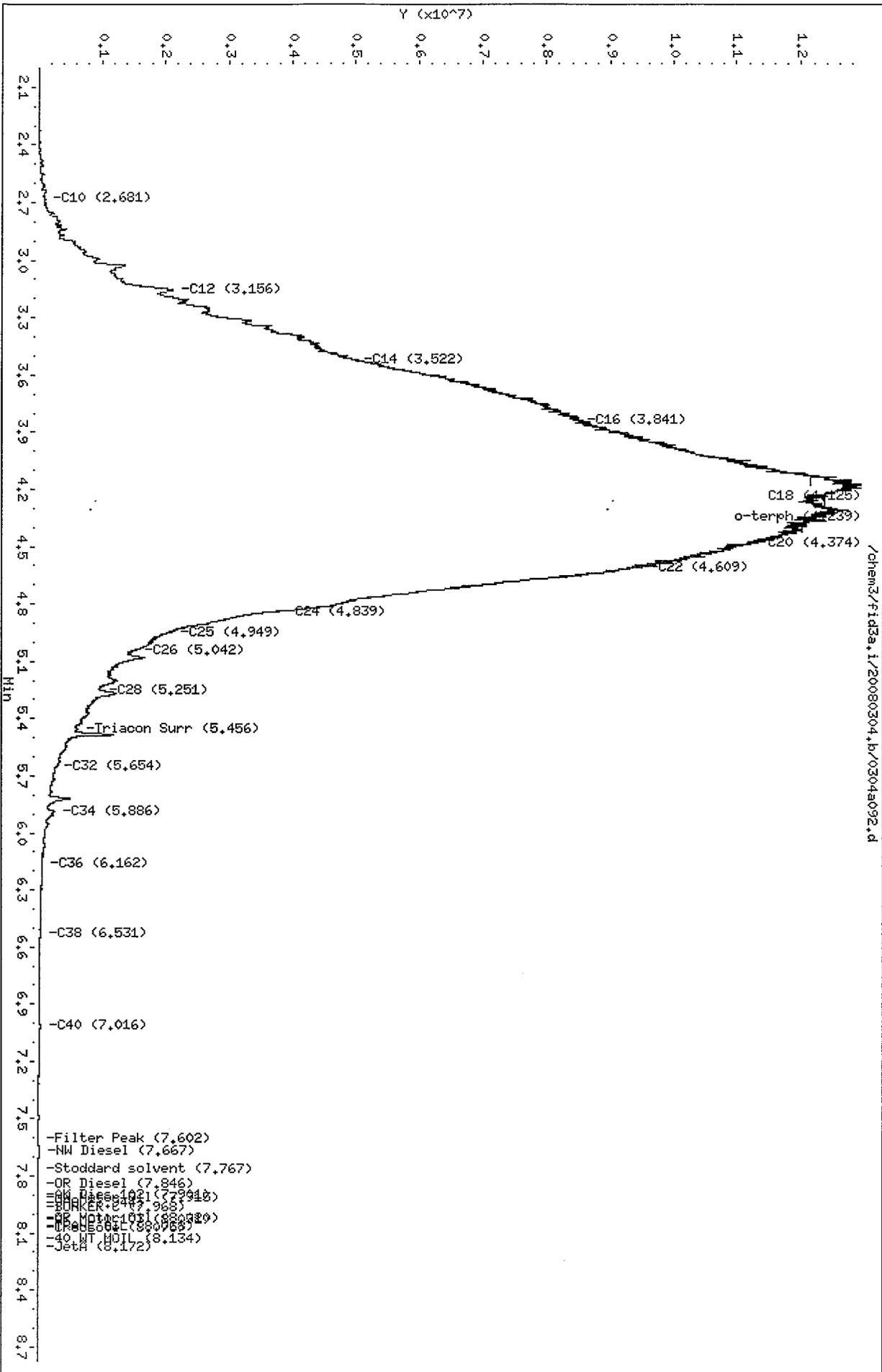
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080304.b/0304a093.d
Method: /chem3/fid3a.i/20080304.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/07/2008
Macro: FID:3A022908

ARI ID: MK75J
Client ID:
Injection: 05-MAR-2008 15:49
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.776	0.004	26258	41963	GAS (Tol-C12)	20685361	508
C8	1.967	0.006	8693	6304	DIESEL (C12-C24)	332928231	23032
C10	2.685	0.003	101062	69008	M.OIL (C24-C38)	47108378	4905
C12	3.147	-0.009	1582175	3554551	AK-102 (C10-C25)	353379933	20645
C14	3.522	-0.002	3027290	2845976	AK-103 (C25-C36)	45092152	7613
C16	3.840	0.000	3994606	635611			
C18	4.118	-0.004	5100101	2007039			
C20	4.378	0.002	4211600	2833380	JET-A (C10-C18)	216621290	15228
C22	4.612	0.001	2667581	1777996	MIN.OIL (C24-C38)	47108378	3771
C24	4.838	0.004	1631682	897370	MSPRIT (Tol-C12)	20685361	1307
C25	4.944	0.001	1367297	540099	TRANOIL (C12-C28)	362014459	23746
C26	5.047	0.000	1304136	998818	KEROSEN (Tol-C18)	217756857	14116
C28	5.252	0.000	1134011	1262580			
C32	5.645	-0.004	307366	97005	FUEL OIL(C10-C24)	352478025	664
C34	5.881	0.002	319292	445169			
Filter Peak	7.600	-0.002	16640	8924	JP-4 (Tol-C14)	69170877	6088
C36	6.167	0.004	85291	49472	CREOSOT (C8-C22)	330143016	31673
C38	6.524	-0.001	51071	24312	HYDRAUL (C24-C38)	47108378	5294
C40	7.012	0.001	81030	98747	BUNKERC (C10-C38)	399586404	76427

Range Times: NW Diesel(3.206 - 4.884) NW Gas(1.722 - 3.206) NW M.Oil(4.884 - 6.576)
AK102(2.632 - 4.893) AK103(4.893 - 6.213) Jet A(2.632 - 4.172)

Surrogate	Area	Amount	%Rec
o-Terphenyl	0	0.0	0.0
Triacontane	0	0.0	0.0

E m.2 3/11/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a,i/20080304,b/0304a093.d

Date: 05-MAR-2008 15:49

Client ID:

Sample Info: HK75J

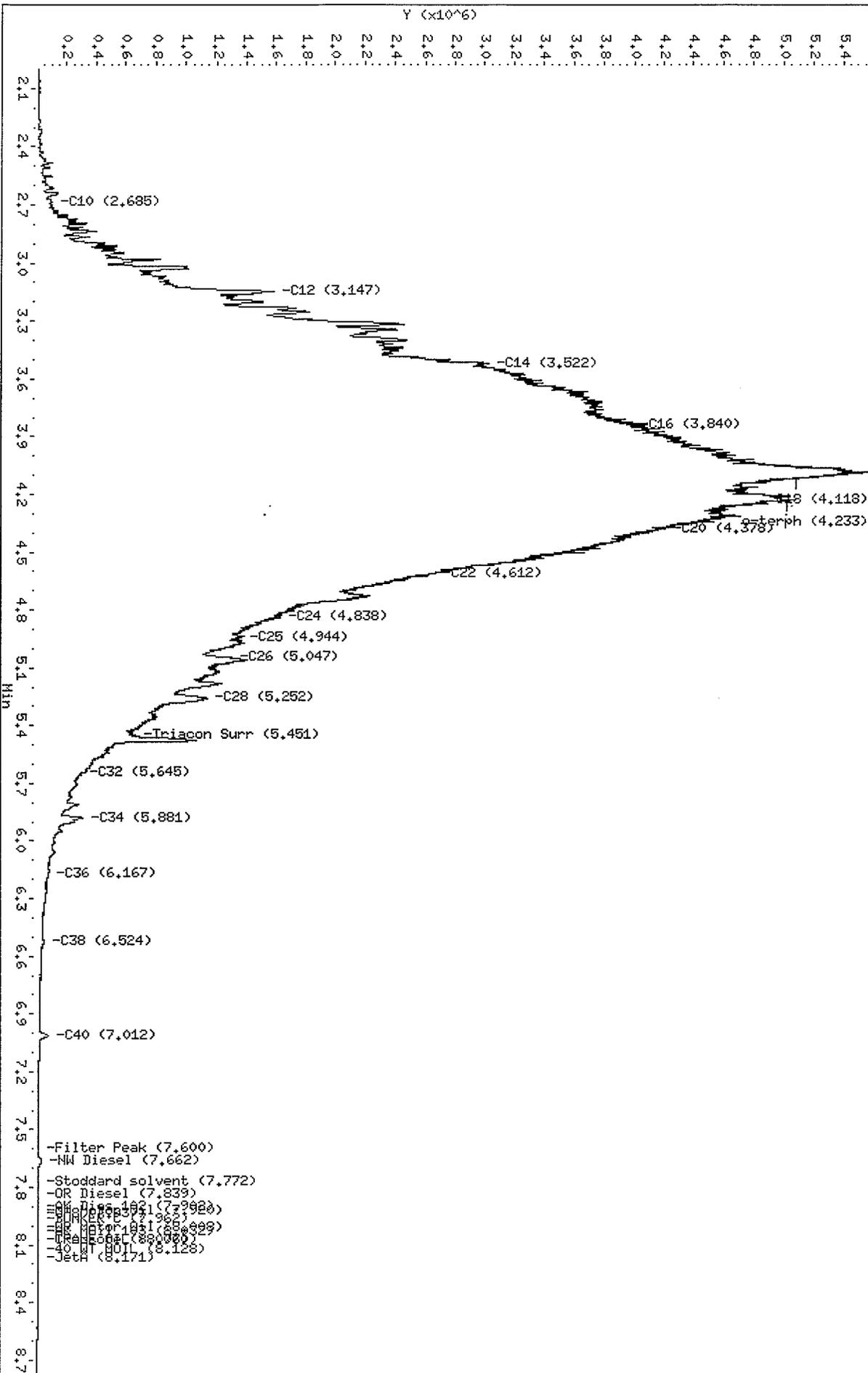
Column Phaset: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080306.b/0306a019.d
Method: /chem3/fid3a.i/20080306.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/07/2008
Macro: FID:3A022908

ARI ID: MK75K
Client ID:
Injection: 06-MAR-2008 21:43
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.785	0.014	17051	8138	GAS (Tol-C12)	594239	15
C8	1.940	-0.019	8620	16793	DIESEL (C12-C24)	607296	42
C10	2.675	-0.007	6149	7633	M.OIL (C24-C38)	853933	89
C12	3.155	-0.001	5916	944	AK-102 (C10-C25)	805589	47
C14	3.521	-0.004	6817	10095	AK-103 (C25-C36)	722018	122
C16	3.841	0.000	7107	1828			
C18	4.118	-0.003	7002	4859			
C20	4.383	0.007	7017	5257	JET-A (C10-C18)	576901	41
C22	4.609	-0.002	6129	1463	MIN.OIL (C24-C38)	853933	68
C24	4.832	-0.003	7417	2911	MSPIRIT (Tol-C12)	594239	38
C25	4.932	-0.011	9792	14192	TRANOIL (C12-C28)	858547	56
C26	5.051	0.003	8291	3788	KEROSEN (Tol-C18)	972848	63
C28	5.251	-0.002	10606	10455			
C32	5.652	-0.001	9853	6238	FUEL OIL(C10-C24)	805589	2
C34	5.879	-0.005	8965	6532			
Filter Peak	7.614	0.002	4372	2086	JP-4 (Tol-C14)	723797	64
C36	6.162	-0.008	9971	19805	CREOSOT (C8-C22)	992100	95
C38	6.531	0.000	5899	5248	HYDRAUL (C24-C38)	853933	96
C40	7.023	0.008	4957	1384	BUNKERC (C10-C38)	1659522	317

Range Times: NW Diesel(3.206 - 4.885) NW Gas(1.721 - 3.206) NW M.Oil(4.885 - 6.581)
AK102(2.632 - 4.893) AK103(4.893 - 6.220) Jet A(2.632 - 4.170)

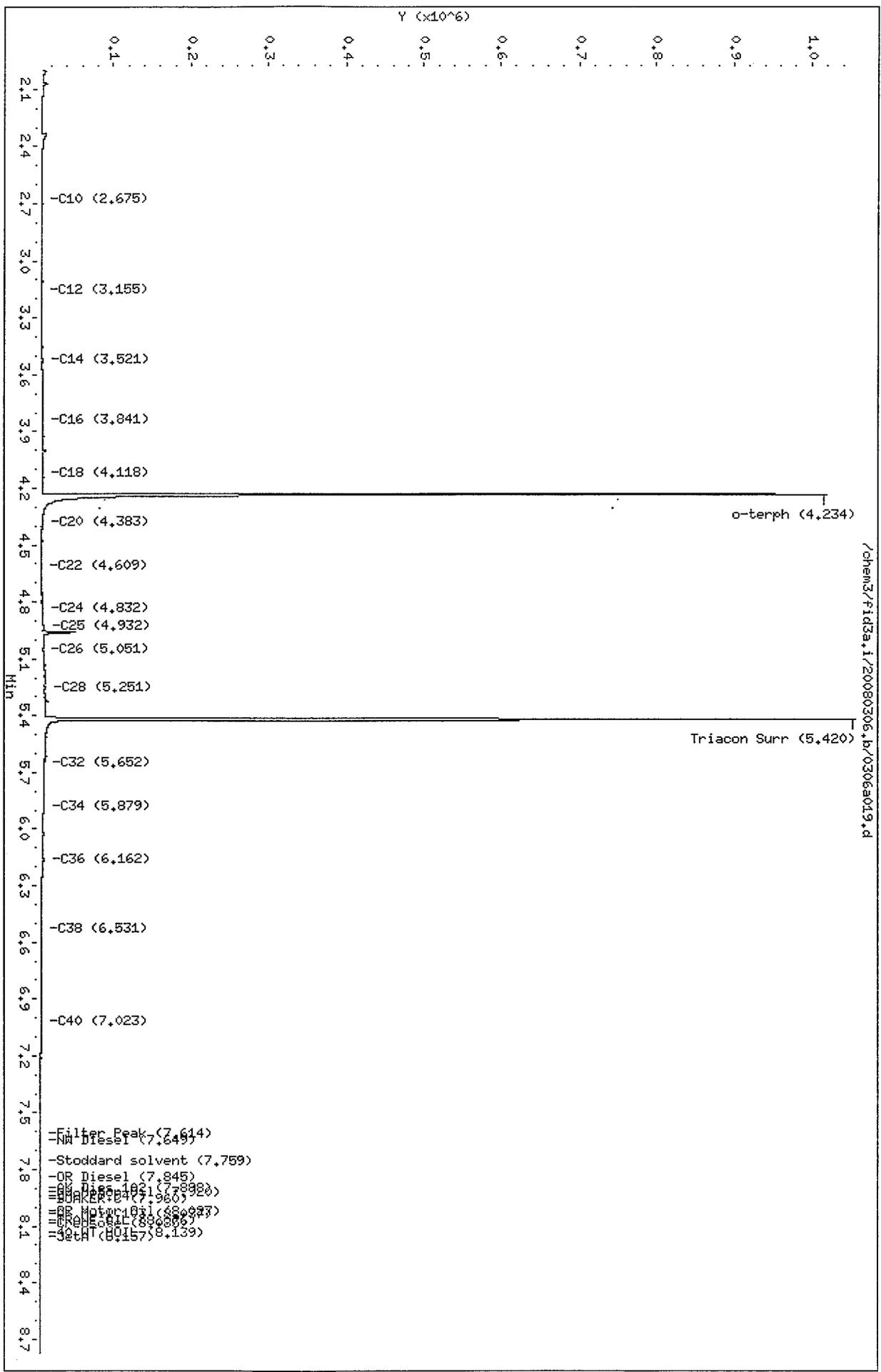
Surrogate	Area	Amount	%Rec
o-Terphenyl	612081	34.4	76.5
Triacontane	566137	37.2	82.6

m.d 3/11/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080306.b/0306a019.d
 Date: 06-MAR-2008 21:43
 Client ID:
 Sample Info: HK75K
 Column phase: RTX-1

Instrument: fid3a.i
 Operator: JR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080305.b/0305a029.d
Method: /chem3/fid3a.i/20080305.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/06/2008
Macro: FID:3A022908

ARI ID: MK75I
Client ID:
Injection: 06-MAR-2008 02:12
Dilution Factor: 100

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.766	-0.006	10254	8514	GAS (Tol-C12)	756221	19
C8	1.951	-0.009	7579	5128	DIESEL (C12-C24)	7996958	553
C10	2.678	-0.003	6316	2516	M.OIL (C24-C38)	765255	80
C12	3.153	-0.004	27733	14975	AK-102 (C10-C25)	8464914	495
C14	3.523	-0.002	84620	86978	AK-103 (C25-C36)	673175	114
C16	3.843	0.001	117082	73709			
C18	4.123	0.000	121929	40791			
C20	4.380	0.003	100942	89524	JET-A (C10-C18)	5644617	397
C22	4.611	-0.003	46315	13747	MIN.OIL (C24-C38)	765255	61
C24	4.831	-0.006	20934	10304	MSPIRIT (Tol-C12)	756221	48
C25	4.946	0.000	17129	17455	TRANOIL (C12-C28)	8307008	545
C26	5.052	0.002	13561	13846	KEROSEN (Tol-C18)	5936392	385
C28	5.255	-0.002	11132	5894			
C32	5.660	0.003	7241	9160	FUEL OIL(C10-C24)	8461404	16
C34	5.888	0.000	6292	3095			
Filter Peak	7.606	0.001	3759	2399	JP-4 (Tol-C14)	1960727	173
C36	6.165	-0.010	4900	3893	CREOSOT (C8-C22)	8391637	805
C38	6.547	0.009	4292	856	HYDRAUL (C24-C38)	765255	86
C40	7.027	0.003	4091	1628	BUNKERC (C10-C38)	9226659	1765

DIESEL

Range Times: NW Diesel(3.206 - 4.887) NW Gas(1.722 - 3.206) NW M.Oil(4.887 - 6.588)
AK102(2.632 - 4.895) AK103(4.895 - 6.225) Jet A(2.632 - 4.173)

Surrogate	Area	Amount	%Rec
o-Terphenyl	0	0.0	0.0
Triacontane	0	0.0	0.0

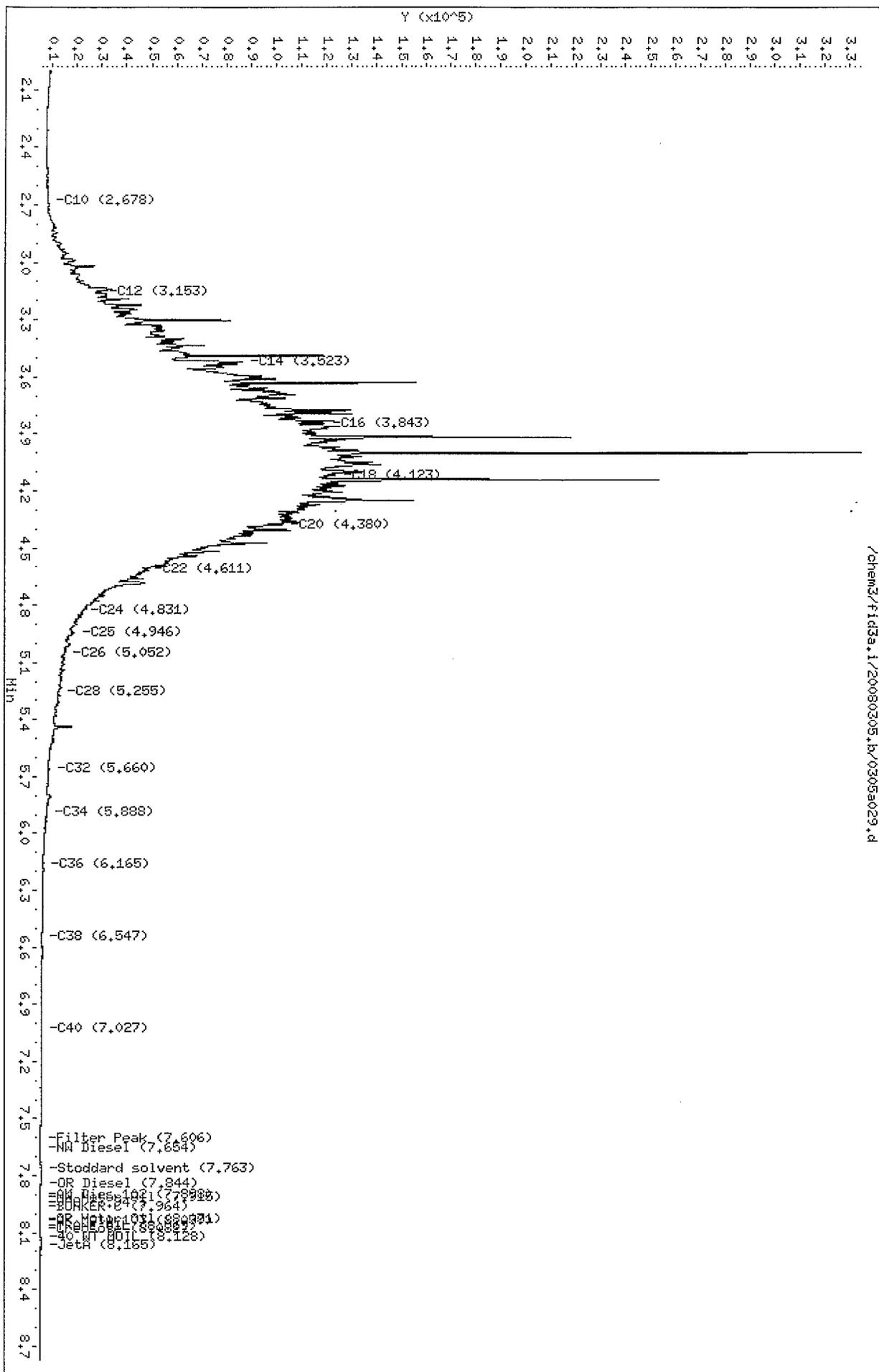
D m. 3/11/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.i/20080305.b/0305a029.d
Date: 06-MAR-2008 02:12
Client ID:
Sample Info: HK751,100

Column phase: RTX-1

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080305.b/0305a034.d
Method: /chem3/fid3a.i/20080305.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 03/06/2008
Macro: FID:3A022908

ARI ID: MK75J
Client ID:
Injection: 06-MAR-2008 03:29
Dilution Factor: 100

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.773	0.001	10161	10792	GAS (Tol-C12)	671044	16
C8	1.963	0.003	7448	5166	DIESEL (C12-C24)	3740859	259
C10	2.667	-0.015	6438	6396	M.OIL (C24-C38)	680592	71
C12	3.155	-0.001	18518	7679	AK-102 (C10-C25)	4116644	241
C14	3.527	0.002	42208	37556	AK-103 (C25-C36)	602915	102
C16	3.845	0.003	52162	48260			
C18	4.121	-0.002	52907	27882			
C20	4.372	-0.006	43897	34734	JET-A (C10-C18)	2805508	197
C22	4.615	0.001	23456	15378	MIN.OIL (C24-C38)	680592	54
C24	4.838	0.001	15999	7878	MSPIRIT (Tol-C12)	671044	42
C25	4.945	0.000	14754	11659	TRANOIL (C12-C28)	4037217	265
C26	5.054	0.003	12764	12273	KEROSEN (Tol-C18)	3104545	201
C28	5.260	0.004	10282	2045			
C32	5.659	0.002	6432	2999	FUEL OIL (C10-C24)	4112866	8
C34	5.891	0.003	5048	3497			
Filter Peak	7.608	0.003	3230	2057	JP-4 (Tol-C14)	1330640	117
C36	6.170	-0.004	4050	2495	CREOSOT (C8-C22)	4132070	396
C38	6.540	0.002	3604	1866	HYDRAUL (C24-C38)	680592	76
C40	7.022	-0.002	3346	1996	BUNKERC (C10-C38)	4793458	917

DIESEL

Range Times: NW Diesel (3.206 - 4.887) NW Gas (1.722 - 3.206) NW M.Oil (4.887 - 6.588)
AK102 (2.632 - 4.895) AK103 (4.895 - 6.225) Jet A (2.632 - 4.173)

Surrogate	Area	Amount	%Rec
o-Terphenyl	0	0.0	0.0
Triacontane	0	0.0	0.0

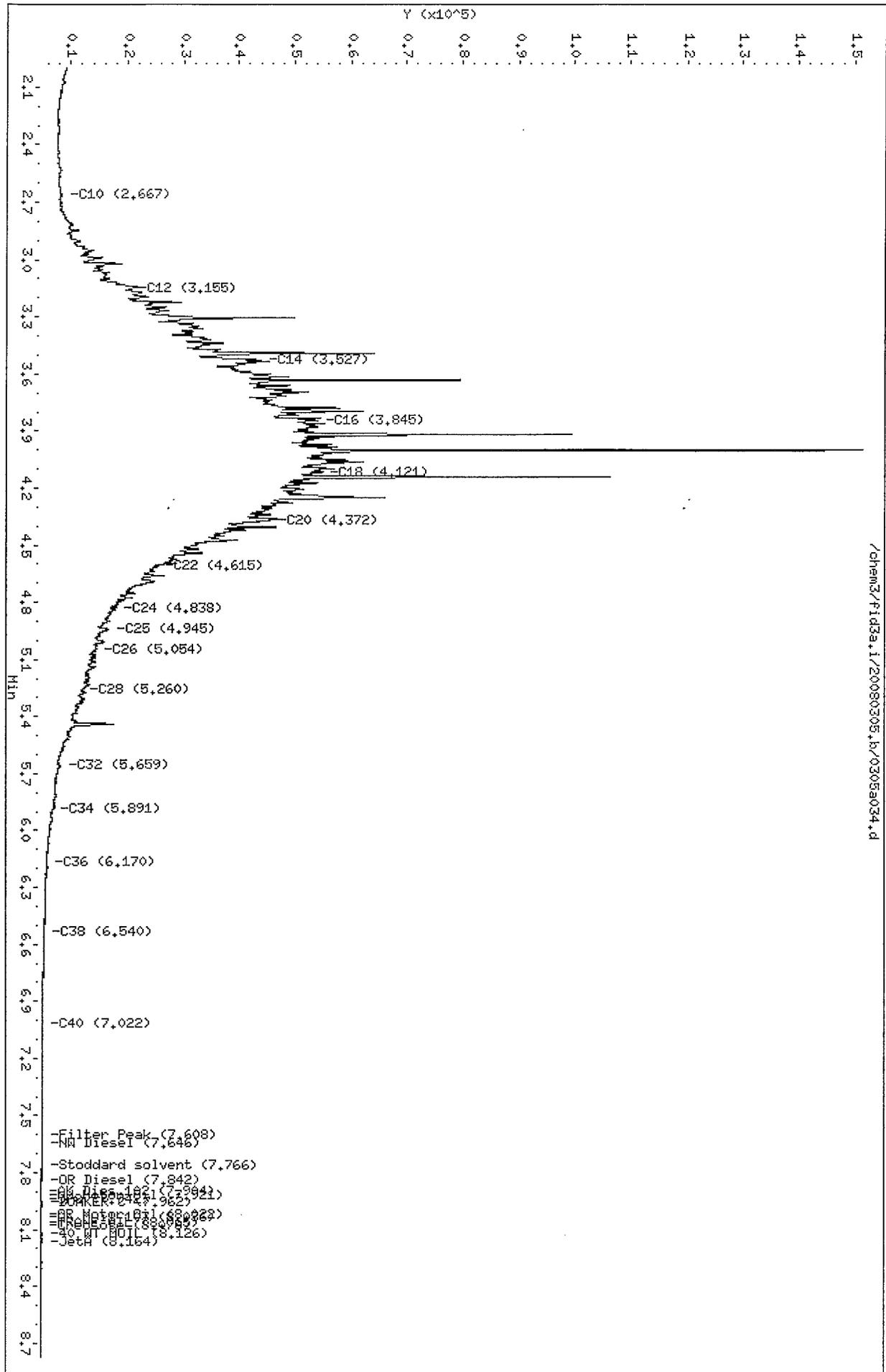
D
Mar 3/11/08

Analyte	RF	Curve Date
o-Terph Surr	17782.5	11-SEP-2007
Triacon Surr	15223.8	15-SEP-2007
Gas	40735.8	29-FEB-2008
Diesel	14455.0	11-SEP-2007
Motor Oil	9605.0	15-SEP-2007
AK102	17116.9	04-SEP-2007
AK103	5923.1	12-SEP-2007
JP4	11362.0	05-FEB-2007
JP5	8746364.4	10-FEB-1999
JetA	14224.8	03-NOV-2007
Min Oil	12493.4	09-MAY-2007
Min Spirit	15825.3	15-APR-2005
Tran Oil	15245.5	24-FEB-2007
Kerosene	15426.1	09-NOV-2004
Bunker C	5228.3	25-SEP-2007
Creosote	10423.6	05-SEP-2007
Hydraulic	8899.0	12-JUL-2004
Diesel 1	100000.0	20-JUN-2001
Fuel Oil	530568.2	13-AUG-2002

Data File: /chem3/fid3a.1/20080305.b/0305a034.d
Date: 06-MAR-2008 03:29
Client ID:
Sample Info: HK75J,100

Column phase: RTX-1

Instrument: fid3a.1
Operator: JR
Column diameter: 0.25



SAMPLE RESULTS-CONVENTIONALS
MK75-Parametrix, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 03/07/08

Project: Yakima
Event: 555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Client ID: TP-8-12.5
ARI ID: 08-3936 MK75A

Analyte	Date	Method	Units	RL	Sample
pH	03/05/08 030508#1	SW9045	std units	0.01	6.80

RL Analytical reporting limit
U Undetected at reported detection limit

Results reported on a fresh weight basis
pH determined on 1:1 soil:D.I. water extracts.

SAMPLE RESULTS-CONVENTIONALS
MK75-Parametrix, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 03/07/08

Project: Yakima
Event: 555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Client ID: TP-8-2
ARI ID: 08-3937 MK75B

Analyte	Date	Method	Units	RL	Sample
pH	03/05/08 030508#1	SW9045	std units	0.01	6.72

RL Analytical reporting limit
U Undetected at reported detection limit

Results reported on a fresh weight basis
pH determined on 1:1 soil:D.I. water extracts.

SAMPLE RESULTS-CONVENTIONALS
MK75-Parametrix, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 03/07/08

Project: Yakima
Event: 555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Client ID: TP-10-8
ARI ID: 08-3940 MK75E

Analyte	Date	Method	Units	RL	Sample
pH	03/05/08 030508#1	SW9045	std units	0.01	6.53

RL Analytical reporting limit
U Undetected at reported detection limit

Results reported on a fresh weight basis
pH determined on 1:1 soil:D.I. water extracts.

SAMPLE RESULTS-CONVENTIONALS
MK75-Parametrix, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 03/07/08

Project: Yakima
Event: 555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Client ID: TP-10-13
ARI ID: 08-3941 MK75F

Analyte	Date	Method	Units	RL	Sample
pH	03/05/08 030508#1	SW9045	std units	0.01	6.35

RL Analytical reporting limit
U Undetected at reported detection limit

Results reported on a fresh weight basis
pH determined on 1:1 soil:D.I. water extracts.

REPLICATE RESULTS-CONVENTIONALS
MK75-Parametrix, Inc.



Matrix: Soil
Data Release Authorized: 
Reported: 03/07/08

Project: Yakima
Event: 555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Analyte	Date	Units	Sample	Replicate (s)	RPD/RSD
ARI ID: MK75A Client ID: TP-8-12.5					
pH	03/05/08	std units	6.80	6.83	0.03

pH is evaluated as the Absolute Difference between the values rather than Relative Percent Difference

LAB CONTROL RESULTS-CONVENTIONALS
MK75-Parametrix, Inc.



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 03/07/08

Project: Yakima
Event: 555-5753-001
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
pH	03/05/08	std units	7.00	7.00	0.00

pH is evaluated as the Absolute Difference between the values rather than Percent Recovery.

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Sample ID: METHOD BLANK

Page 1 of 1

Lab Sample ID: MK75MB

QC Report No: MK75-Parametrix, Inc.

LIMS ID: 08-3937

Project: Yakima

Matrix: Soil

555-5753-001

Data Release Authorized: 

Date Sampled: NA

Reported: 03/11/08

Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/03/08	6010B	03/06/08	7440-38-2	Arsenic	5	5	U
3050B	03/03/08	6010B	03/06/08	7440-39-3	Barium	0.3	0.3	U
3050B	03/03/08	6010B	03/06/08	7440-43-9	Cadmium	0.2	0.2	U
3050B	03/03/08	6010B	03/06/08	7440-47-3	Chromium	0.5	0.5	U
3050B	03/03/08	6010B	03/06/08	7439-92-1	Lead	2	2	U
CLP	03/03/08	7471A	03/07/08	7439-97-6	Mercury	0.05	0.05	U
3050B	03/03/08	6010B	03/06/08	7782-49-2	Selenium	5	5	U
3050B	03/03/08	6010B	03/06/08	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: TP-8-12.5
SAMPLE

Lab Sample ID: MK75A /
LIMS ID: 08-3936
Matrix: Soil
Data Release Authorized: 
Reported: 03/11/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Percent Total Solids: 73.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/03/08	6010B	03/07/08	7440-38-2	Arsenic	20	20	U
3050B	03/03/08	6010B	03/07/08	7440-39-3	Barium	0.9	142	
3050B	03/03/08	6010B	03/07/08	7440-43-9	Cadmium	0.6	0.6	U
3050B	03/03/08	6010B	03/07/08	7440-47-3	Chromium	2	19	
3050B	03/03/08	6010B	03/07/08	7439-92-1	Lead	6	6	U
CLP	03/03/08	7471A	03/07/08	7439-97-6	Mercury	0.06	0.07	
3050B	03/03/08	6010B	03/07/08	7782-49-2	Selenium	20	20	U
3050B	03/03/08	6010B	03/07/08	7440-22-4	Silver	0.9	0.9	U

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: TP-8-12.5

DUPLICATE

Lab Sample ID: MK75A

LIMS ID: 08-3936

Matrix: Soil

Data Release Authorized: 

Reported: 03/11/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	20 U	20 U	0.0%	+/- 20	L
Barium	6010B	142	146	2.8%	+/- 20%	
Cadmium	6010B	0.6 U	0.6 U	0.0%	+/- 0.6	L
Chromium	6010B	19	19	0.0%	+/- 20%	
Lead	6010B	6 U	6 U	0.0%	+/- 6	L
Mercury	7471A	0.07	0.07	0.0%	+/- 0.06	L
Selenium	6010B	20 U	20 U	0.0%	+/- 20	L
Silver	6010B	0.9 U	0.9 U	0.0%	+/- 0.9	L

Reported in mg/kg-dry

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: TP-8-12.5

MATRIX SPIKE

Lab Sample ID: MK75A

LIMS ID: 08-3936

Matrix: Soil

Data Release Authorized: 

Reported: 03/11/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	20 U	230	252	91.3%	
Barium	6010B	142	373	252	91.7%	
Cadmium	6010B	0.6 U	58.5	63.1	92.7%	
Chromium	6010B	19	76	63.1	90.3%	
Lead	6010B	6 U	238	252	94.4%	
Mercury	7471A	0.07	0.64	0.559	102%	
Selenium	6010B	20 U	230	252	91.3%	
Silver	6010B	0.9 U	56.9	63.1	90.2%	

Reported in mg/kg-dry

N-Control Limit Not Met

H-% Recovery Not Applicable, Sample Concentration Too High

NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: TP-8-2

SAMPLE

Lab Sample ID: MK75B

LIMS ID: 08-3937

Matrix: Soil

Data Release Authorized: 

Reported: 03/11/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Percent Total Solids: 69.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/03/08	6010B	03/06/08	7440-38-2	Arsenic	7	7	U
3050B	03/03/08	6010B	03/06/08	7440-39-3	Barium	0.4	147	
3050B	03/03/08	6010B	03/06/08	7440-43-9	Cadmium	0.3	0.3	U
3050B	03/03/08	6010B	03/06/08	7440-47-3	Chromium	0.7	16.8	
3050B	03/03/08	6010B	03/06/08	7439-92-1	Lead	3	32	
CLP	03/03/08	7471A	03/07/08	7439-97-6	Mercury	0.05	0.15	
3050B	03/03/08	6010B	03/06/08	7782-49-2	Selenium	7	7	U
3050B	03/03/08	6010B	03/06/08	7440-22-4	Silver	0.4	0.4	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: TP-9-13
SAMPLE

Lab Sample ID: MK75C

LIMS ID: 08-3938

Matrix: Soil

Data Release Authorized: 

Reported: 03/11/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Percent Total Solids: 91.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/03/08	6010B	03/07/08	7440-38-2	Arsenic	10	10	U
3050B	03/03/08	6010B	03/07/08	7440-39-3	Barium	0.8	71.0	
3050B	03/03/08	6010B	03/07/08	7440-43-9	Cadmium	0.5	0.5	U
3050B	03/03/08	6010B	03/07/08	7440-47-3	Chromium	1	15	
3050B	03/03/08	6010B	03/07/08	7439-92-1	Lead	5	5	U
CLP	03/03/08	7471A	03/07/08	7439-97-6	Mercury	0.05	0.05	
3050B	03/03/08	6010B	03/07/08	7782-49-2	Selenium	10	10	U
3050B	03/03/08	6010B	03/07/08	7440-22-4	Silver	0.8	0.8	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: TP-9-1.5

SAMPLE

Lab Sample ID: MK75D

LIMS ID: 08-3939

Matrix: Soil

Data Release Authorized:

Reported: 03/11/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Percent Total Solids: 85.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/03/08	6010B	03/07/08	7440-38-2	Arsenic	10	10	U
3050B	03/03/08	6010B	03/07/08	7440-39-3	Barium	0.8	167	
3050B	03/03/08	6010B	03/07/08	7440-43-9	Cadmium	0.6	0.6	U
3050B	03/03/08	6010B	03/07/08	7440-47-3	Chromium	1	18	
3050B	03/03/08	6010B	03/07/08	7439-92-1	Lead	6	12	
CLP	03/03/08	7471A	03/07/08	7439-97-6	Mercury	0.05	0.07	
3050B	03/03/08	6010B	03/07/08	7782-49-2	Selenium	10	10	U
3050B	03/03/08	6010B	03/07/08	7440-22-4	Silver	0.8	0.8	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: TP-10-8

SAMPLE

Lab Sample ID: MK75E

LIMS ID: 08-3940

Matrix: Soil

Data Release Authorized: 

Reported: 03/11/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Percent Total Solids: 69.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/03/08	6010B	03/06/08	7440-38-2	Arsenic	7	7	U
3050B	03/03/08	6010B	03/06/08	7440-39-3	Barium	0.4	64.3	
3050B	03/03/08	6010B	03/06/08	7440-43-9	Cadmium	0.3	0.3	U
3050B	03/03/08	6010B	03/06/08	7440-47-3	Chromium	0.7	17.4	
3050B	03/03/08	6010B	03/06/08	7439-92-1	Lead	3	12	
CLP	03/03/08	7471A	03/07/08	7439-97-6	Mercury	0.06	0.06	U
3050B	03/03/08	6010B	03/06/08	7782-49-2	Selenium	7	7	U
3050B	03/03/08	6010B	03/06/08	7440-22-4	Silver	0.4	0.4	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: TP-10-13

SAMPLE

Lab Sample ID: MK75F

LIMS ID: 08-3941

Matrix: Soil

Data Release Authorized

Reported: 03/11/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Percent Total Solids: 94.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/03/08	6010B	03/07/08	7440-38-2	Arsenic	10	10	U
3050B	03/03/08	6010B	03/07/08	7440-39-3	Barium	0.7	81.3	
3050B	03/03/08	6010B	03/07/08	7440-43-9	Cadmium	0.5	0.5	U
3050B	03/03/08	6010B	03/07/08	7440-47-3	Chromium	1	13	
3050B	03/03/08	6010B	03/07/08	7439-92-1	Lead	5	16	
CLP	03/03/08	7471A	03/07/08	7439-97-6	Mercury	0.04	0.04	U
3050B	03/03/08	6010B	03/07/08	7782-49-2	Selenium	10	10	U
3050B	03/03/08	6010B	03/07/08	7440-22-4	Silver	0.7	0.7	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: TP-11-14

SAMPLE

Lab Sample ID: MK75G

LIMS ID: 08-3942

Matrix: Soil

Data Release Authorized: 

Reported: 03/11/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Percent Total Solids: 67.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/03/08	6010B	03/06/08	7439-92-1	Lead	3	4	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: TP-11-4

SAMPLE

Lab Sample ID: MK75H

LIMS ID: 08-3943

Matrix: Soil

Data Release Authorized: 

Reported: 03/11/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Percent Total Solids: 73.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/03/08	6010B	03/06/08	7439-92-1	Lead	3	13	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: TP-12-13

SAMPLE

Lab Sample ID: MK75I

LIMS ID: 08-3944

Matrix: Soil

Data Release Authorized: 

Reported: 03/11/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Percent Total Solids: 73.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/03/08	6010B	03/06/08	7439-92-1	Lead	3	25	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: TP-12D-13

SAMPLE

Lab Sample ID: MK75J

LIMS ID: 08-3945

Matrix: Soil

Data Release Authorized: 

Reported: 03/11/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Percent Total Solids: 73.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/03/08	6010B	03/06/08	7439-92-1	Lead	3	22	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: TP-13-8

SAMPLE

Lab Sample ID: MK75K

LIMS ID: 08-3946

Matrix: Soil

Data Release Authorized: 

Reported: 03/11/08

QC Report No: MK75-Parametrix, Inc.

Project: Yakima

555-5753-001

Date Sampled: 02/27/08

Date Received: 02/28/08

Percent Total Solids: 92.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	03/03/08	6010B	03/07/08	7440-38-2	Arsenic	10	10	U
3050B	03/03/08	6010B	03/07/08	7440-39-3	Barium	0.8	53.9	
3050B	03/03/08	6010B	03/07/08	7440-43-9	Cadmium	0.5	0.5	U
3050B	03/03/08	6010B	03/07/08	7440-47-3	Chromium	1	19	
3050B	03/03/08	6010B	03/07/08	7439-92-1	Lead	5	5	
CLP	03/03/08	7471A	03/07/08	7439-97-6	Mercury	0.05	0.05	U
3050B	03/03/08	6010B	03/07/08	7782-49-2	Selenium	10	10	U
3050B	03/03/08	6010B	03/07/08	7440-22-4	Silver	0.8	0.8	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Sample ID: LAB CONTROL

Page 1 of 1

Lab Sample ID: MK75LCS

QC Report No: MK75-Parametrix, Inc.

LIMS ID: 08-3937

Project: Yakima

Matrix: Soil

555-5753-001

Data Release Authorized: 

Date Sampled: NA

Reported: 03/11/08

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	216	200	108%	
Barium	6010B	195	200	97.5%	
Cadmium	6010B	50.1	50.0	100%	
Chromium	6010B	49.3	50.0	98.6%	
Lead	6010B	203	200	102%	
Mercury	7471A	1.06	1.00	106%	
Selenium	6010B	206	200	103%	
Silver	6010B	48.7	50.0	97.4%	

Reported in mg/kg-dry

N-Control limit not met

Control Limits: 80-120%

ORGANICS ANALYSIS DATA SHEET
 NWTPHD by GC/FID
 Page 1 of 1

Sample ID: LCS-042208
 LAB CONTROL

Lab Sample ID: LCS-042208
 LIMS ID: 08-8249
 Matrix: Soil
 Data Release Authorized: 
 Reported: 04/28/08

QC Report No: MT18-Parametrix, Inc.
 Project: Yakima Resources-Phase II ESA
 555-5753-001
 Date Sampled: NA
 Date Received: NA

Date Extracted: 04/22/08
 Date Analyzed: 04/24/08 18:43
 Instrument/Analyst: FID3A/MS

Sample Amount: 10.0 g
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	110	150	73.3%

TPHD Surrogate Recovery

o-Terphenyl	89.8%
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Results reported in mg/kg

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080424.b/0424a024.d
Method: /chem3/fid3a.i/20080424.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 04/28/2008
Macro: FID:3A042408

ARI ID: MT16MBS1
Client ID: MT16MBS1
Injection: 24-APR-2008 18:58
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.795	-0.001	15408	12164	GAS (Tol-C12)	389902	13
C8	1.929	0.006	5622	1226	DIESEL (C12-C24)	176840	12 ✓
C10	2.516	0.002	3981	4051	M.OIL (C24-C38)	220838	20 ✓
C12	3.012	0.013	2625	1651	AK-102 (C10-C25)	285823	16
C14	3.404	-0.008	2060	3471	AK-103 (C25-C36)	168182	19
C16	3.769	-0.005	1527	2094	OR.DIES (C10-C28)	325497	20
C18	4.162	-0.004	968	646	OR.MOIL (C28-C40)	236605	22
C20	4.591	0.004	1857	2695	JET-A (C10-C18)	213347	12
C22	4.944	0.001	1025	362			
C24	5.234	-0.007	1580	2254	MSPRIT (Tol-C12)	389902	25
C25	5.375	0.005	1255	448			
C26	5.486	-0.004	1345	857			
C28	5.712	0.004	2158	2312			
C32	6.142	-0.004	2509	699			
C34	6.416	0.001	2269	951			
Filter Peak	7.044	0.001	2107	1996	JP-4 (Tol-C14)	440243	39
C36	6.756	0.001	2053	572	CREOSOT (C8-C22)	470177	80
C38	7.200	0.002	2053	976			
C40	7.800	0.004	1879	1305	BUNKERC (C10-C38)	504429	63

Range Times: NW Diesel(3.049 - 5.291) NW Gas(1.745 - 3.049) NW M.Oil(5.291 - 7.248)
AK102(2.464 - 5.320) AK103(5.320 - 6.804) Jet A(2.464 - 4.216)

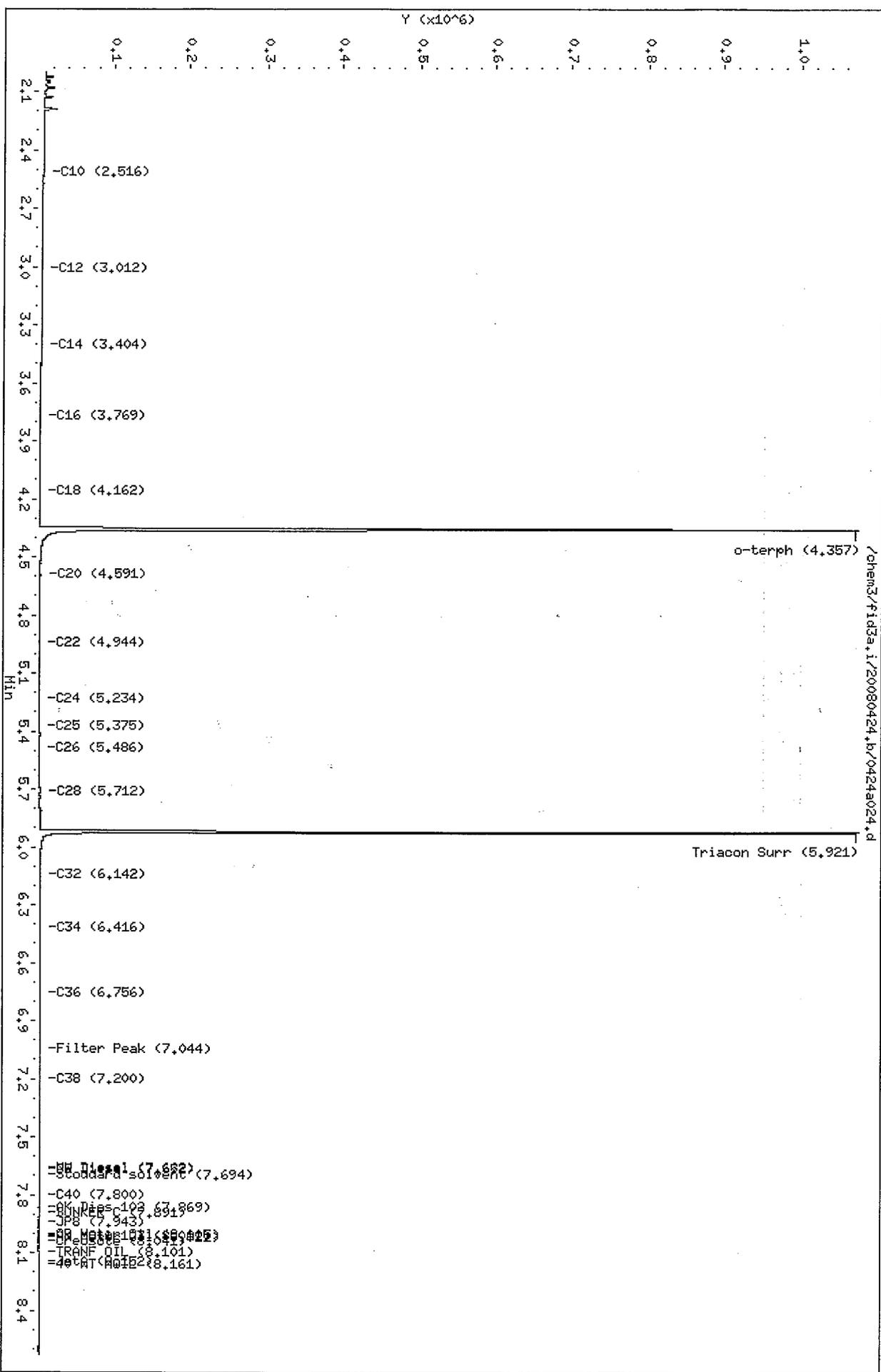
Surrogate	Area	Amount	%Rec
o-Terphenyl	652866	34.2	75.9
Triacontane	567287	35.6	79.1

ma 4/28/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	28923.0	08-APR-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

Data File: /chem3/fid3a.i/20080424+b/0424a024.d
 Date: 24-APR-2008 18:58
 Client ID: HT16HBS1
 Sample Info: HT16HBS1
 Column phase: RTX-1

Instrument: fid3a.i
 Operator: JR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080424.b/0424a023.d
Method: /chem3/fid3a.i/20080424.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 04/28/2008
Macro: FID:3A042408

ARI ID: MT16LCSS1
Client ID: MT16LCSS1
Injection: 24-APR-2008 18:43
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.796	0.001	31471	20657	GAS (Tol-C12)	3670302	127
C8	1.923	0.001	28169	19546	DIESEL (C12-C24)	16927360	1102
C10	2.515	0.001	328684	137277	M.OIL (C24-C38)	539457	48
C12	3.000	0.001	594801	239794	AK-102 (C10-C25)	19825222	1083
C14	3.411	-0.002	752608	401532	AK-103 (C25-C36)	451286	50
C16	3.776	0.002	813097	441073	OR.DIES (C10-C28)	20115652	1245
C18	4.170	0.004	493513	406851	OR.MOIL (C28-C40)	270675	25
C20	4.588	0.001	389504	244006	JET-A (C10-C18)	14967833	864
C22	4.943	0.000	155685	114886			
C24	5.241	0.000	63485	65106	MSPIRIT (Tol-C12)	3670302	232
C25	5.372	0.002	36102	45266			
C26	5.493	0.003	20908	28468			
C28	5.714	0.006	8330	9203			
C32	6.149	0.003	3187	1133			
C34	6.417	0.002	2617	1299			
Filter Peak	7.043	0.000	2170	475	JP-4 (Tol-C14)	7726728	680
C36	6.755	0.001	2239	804	CREOSOT (C8-C22)	19932043	3412
C38	7.195	-0.003	2138	553			
C40	7.801	0.005	2035	526	BUNKERC (C10-C38)	20323716	2556

Range Times: NW Diesel(3.049 - 5.291) NW Gas(1.745 - 3.049) NW M.Oil(5.291 - 7.248)
AK102(2.464 - 5.320) AK103(5.320 - 6.804) Jet A(2.464 - 4.216)

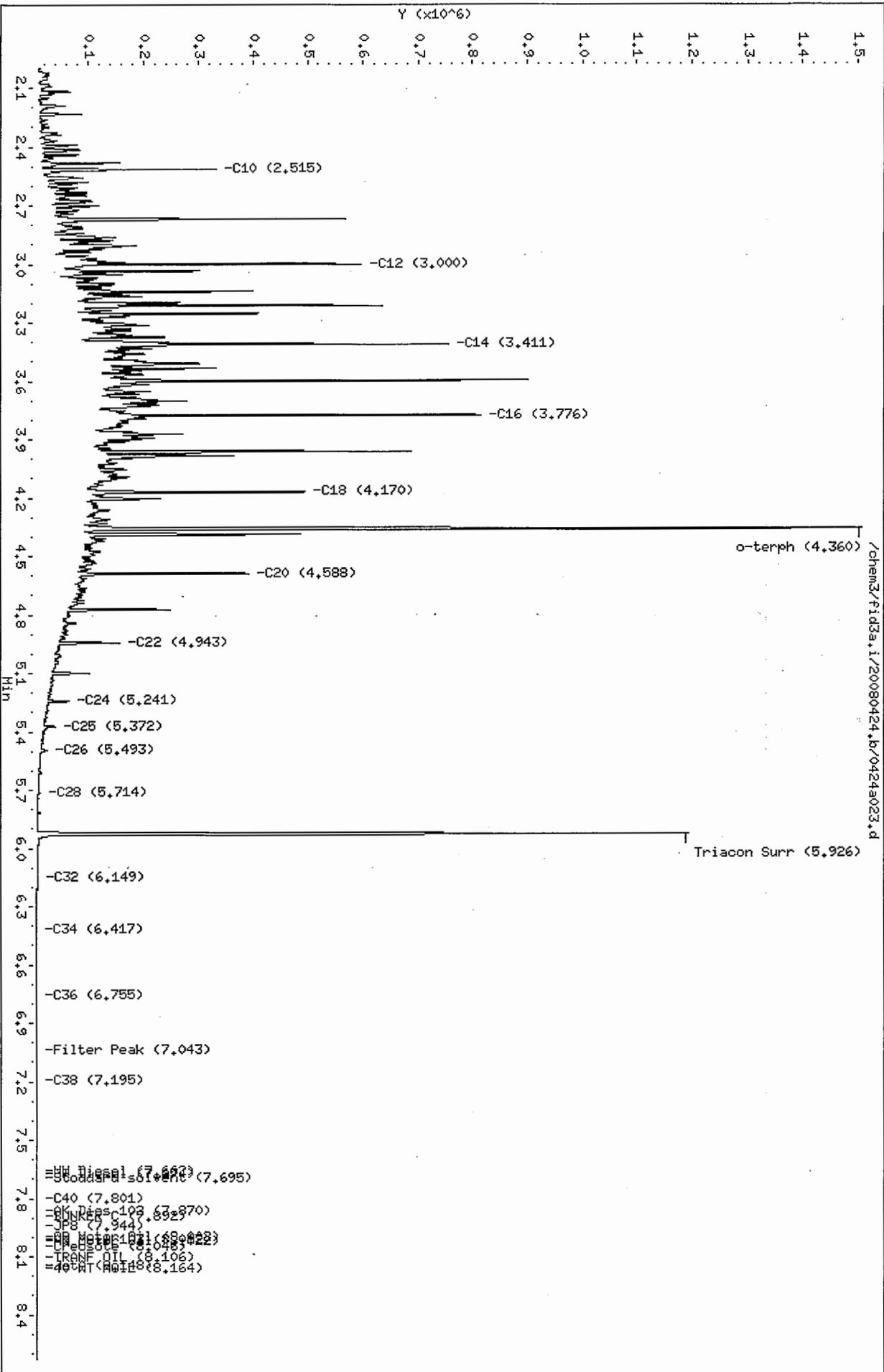
Surrogate	Area	Amount	%Rec
o-Terphenyl	772974	40.4	89.9
Triacontane	670392	42.1	93.5

ms 4/28/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	28923.0	08-APR-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

Data File: /chem3/fid3a.i/20080424.b/0424a023.d
 Date: 24-APR-2008 18:43
 Client ID: HT16LCSS1
 Sample Info: HT16LCSS1
 Column phase: RTX-1

Instrument: fid3a.i
 Operator: JR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080424.b/0424a049.d
Method: /chem3/fid3a.i/20080424.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 04/25/2008
Macro: FID:3A042408

ARI ID: MT18A
Client ID:
Injection: 25-APR-2008 01:21
Dilution Factor: 20

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.793	-0.002	7244	6368	GAS (Tol-C12)	387704	13
C8	1.920	-0.002	5673	3684	DIESEL (C12-C24)	9977858	650
C10	2.519	0.005	4154	5890	M.OIL (C24-C38)	23831665	2119
C12	3.000	0.001	6777	10156	AK-102 (C10-C25)	10479201	573
C14	3.416	0.003	6585	4376	AK-103 (C25-C36)	21505181	2391
C16	3.769	-0.005	12679	13900	OR.DIES (C10-C28)	17854972	1106
C18	4.164	-0.002	8951	10452	OR.MOIL (C28-C40)	17664001	1649
C20	4.595	0.008	52757	33069	JET-A (C10-C18)	898198	52
C22	4.951	0.008	88156	108932			
C24	5.240	-0.001	200564	67082	MSPiRIT (Tol-C12)	387704	24
C25	5.366	-0.004	260279	201453			
C26	5.495	0.005	276444	379125			
C28	5.708	0.000	318428	81422			
C32	6.147	0.001	210068	50033			
C34	6.418	0.003	853624	1016548			
Filter Peak	7.041	-0.002	71809	27646	JP-4 (Tol-C14)	531518	47
C36	6.758	0.003	99614	21818	CREOSOT (C8-C22)	5836433	999
C38	7.197	-0.001	71038	16629			
C40	7.806	0.009	33588	4691	BUNKERC (C10-C38)	33983705	4274

Range Times: NW Diesel(3.049 - 5.291) NW Gas(1.745 - 3.049) NW M.Oil(5.291 - 7.248)
AK102(2.464 - 5.320) AK103(5.320 - 6.804) Jet A(2.464 - 4.216)

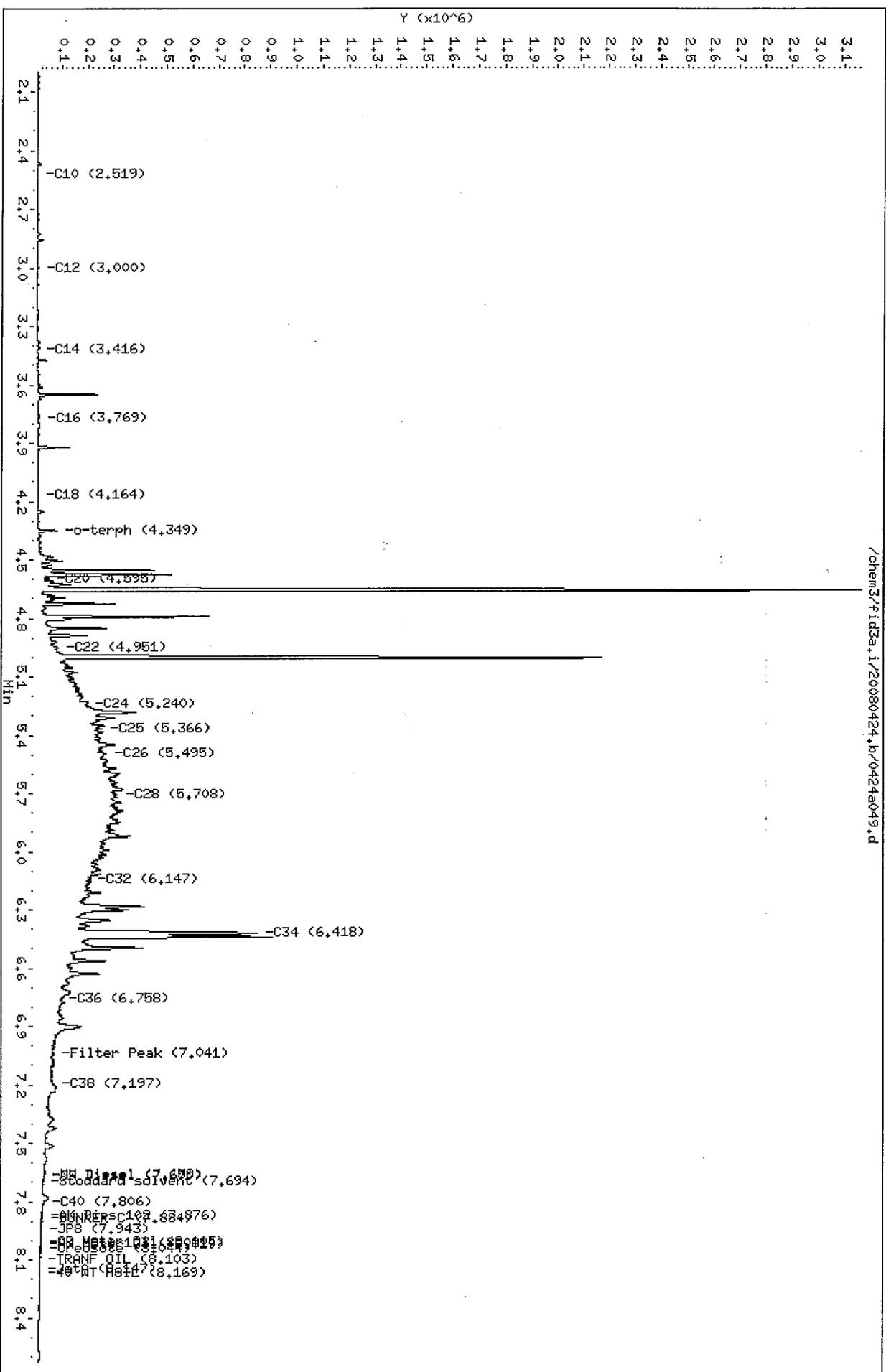
Surrogate	Area	Amount	%Rec
o-Terphenyl	35775	1.9	83.2
Triacontane	0	0.0	0.0

ms 4/28/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	28923.0	08-APR-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

Data File: /chem3/fid3a.i/20080424.b/0424a049.d
 Date: 25-APR-2008 01:21
 Client ID:
 Sample Info: HT18A,20
 Column phase: RTX-1

Instrument: fid3a.i
 Operator: JR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080424.b/0424a050.d
Method: /chem3/fid3a.i/20080424.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 04/25/2008
Macro: FID:3A042408

ARI ID: MT18B
Client ID:
Injection: 25-APR-2008 01:36
Dilution Factor: 5

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.794	-0.001	10288	11680	GAS (Tol-C12)	359678	12
C8	1.918	-0.004	5831	3139	DIESEL (C12-C24)	1162367	76
C10	2.523	0.008	4610	8221	M.OIL (C24-C38)	5501373	489
C12	2.987	-0.012	5170	8353	AK-102 (C10-C25)	1395994	76
C14	3.413	0.001	4387	4103	AK-103 (C25-C36)	4808499	535
C16	3.781	0.007	3900	6684	OR.DIES (C10-C28)	3112344	193
C18	4.168	0.001	3538	3888	OR.MOIL (C28-C40)	4244896	396
C20	4.577	-0.010	7073	7591	JET-A (C10-C18)	375636	22
C22	4.939	-0.004	15890	11237			
C24	5.245	0.004	38899	16162	MSPiRiT (Tol-C12)	359678	23
C25	5.366	-0.004	52963	33758			
C26	5.492	0.002	60927	31345			
C28	5.701	-0.007	81195	58604			
C32	6.148	0.001	52680	21730			
C34	6.421	0.006	52104	41315			
Filter Peak	7.046	0.003	20452	15019	JP-4 (Tol-C14)	441906	39
C36	6.751	-0.003	30266	8923	CREOSOT (C8-C22)	922646	158
C38	7.202	0.004	35538	62650			
C40	7.802	0.006	12639	8089	BUNKERC (C10-C38)	6799759	855

Range Times: NW Diesel(3.049 - 5.291) NW Gas(1.745 - 3.049) NW M.Oil(5.291 - 7.248)
AK102(2.464 - 5.320) AK103(5.320 - 6.804) Jet A(2.464 - 4.216)

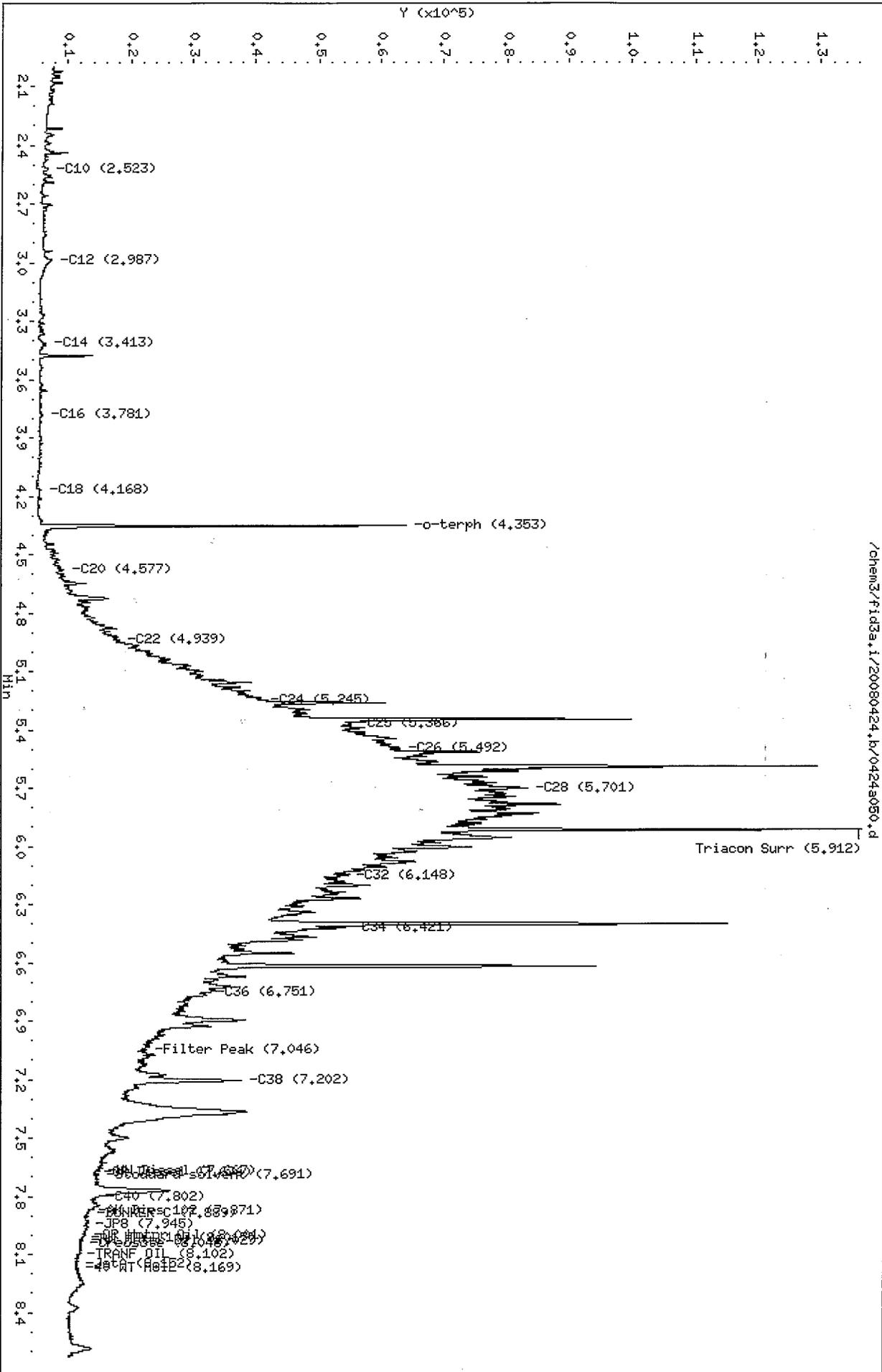
Surrogate	Area	Amount	%Rec
o-Terphenyl	28813	1.5	16.7
Triacontane	32833	2.1	22.9

ma 4/28/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	28923.0	08-APR-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

Data File: /chem3/fid3a.i/20080424.b/0424s050.d
 Date: 25-APR-2008 01:36
 Client ID:
 Sample Info: HT18B.J5
 Column phase: RTX-1

Instrument: fid3a.i
 Operator: JR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080424.b/0424a051.d
Method: /chem3/fid3a.i/20080424.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 04/25/2008
Macro: FID:3A042408

ARI ID: MT18C
Client ID:
Injection: 25-APR-2008 01:52
Dilution Factor: 5

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.794	-0.001	31269	24691	GAS (Tol-C12)	368516	13
C8	1.923	0.000	5775	3757	DIESEL (C12-C24)	2709876	176
C10	2.523	0.009	5011	6682	M.OIL (C24-C38)	8457327	752
C12	2.987	-0.012	4253	8417	AK-102 (C10-C25)	2999196	164
C14	3.410	-0.003	9765	5684	AK-103 (C25-C36)	7440201	827
C16	3.777	0.003	5215	6736	OR.DIES (C10-C28)	5914582	366
C18	4.165	-0.002	5778	5041	OR.MOIL (C28-C40)	6243816	583
C20	4.594	0.007	14667	10706	JET-A (C10-C18)	478937	28
C22	4.942	-0.001	35890	16745			
C24	5.246	0.005	69479	16510	MSPIRIT (Tol-C12)	368516	23
C25	5.372	0.001	91344	21668			
C26	5.494	0.004	97273	28894			
C28	5.705	-0.003	139507	154709			
C32	6.144	-0.002	66094	38921			
C34	6.407	-0.009	438816	388345			
Filter Peak	7.042	-0.001	27675	7601	JP-4 (Tol-C14)	463384	41
C36	6.755	0.001	40341	15708	CREOSOT (C8-C22)	1947053	333
C38	7.210	0.011	89835	137708			
C40	7.787	-0.009	97916	95277	BUNKERC (C10-C38)	11302752	1421

Range Times: NW Diesel(3.049 - 5.291) NW Gas(1.745 - 3.049) NW M.Oil(5.291 - 7.248)
AK102(2.464 - 5.320) AK103(5.320 - 6.804) Jet A(2.464 - 4.216)

Surrogate	Area	Amount	%Rec
o-Terphenyl	29998	1.6	17.4
Triacontane	25467	1.6	17.8

mo. 4/28/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	28923.0	08-APR-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

Data File: /chem3/fid3a.i/20080424.b/0424a051.d

Date: 25-APR-2008 01:52

Client ID:

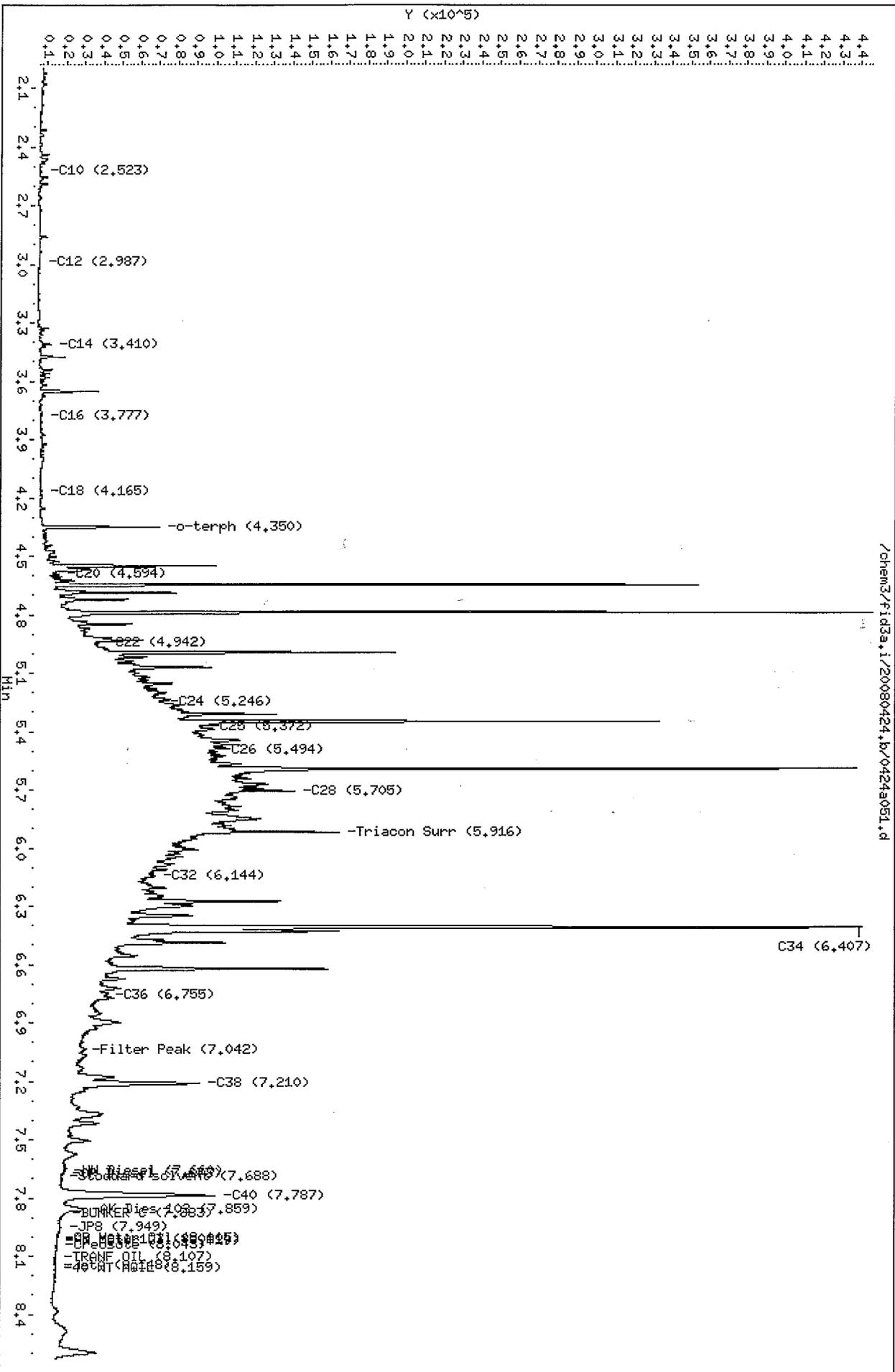
Sample Infor: MT18C,5

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080424.b/0424a055.d
Method: /chem3/fid3a.i/20080424.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 04/25/2008
Macro: FID:3A042408

ARI ID: MT18D
Client ID:
Injection: 25-APR-2008 02:52
Dilution Factor: 20

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.795	-0.001	8775	11216	GAS (Tol-C12)	466363	16
C8	1.923	0.000	5791	4343	DIESEL (C12-C24)	6616211	431
C10	2.519	0.004	4918	6418	M.OIL (C24-C38)	10374018	923
C12	3.002	0.002	4369	4874	AK-102 (C10-C25)	7076079	387
C14	3.418	0.005	9090	7294	AK-103 (C25-C36)	9048633	1006
C16	3.772	-0.003	12466	17306	OR.DIES (C10-C28)	10625394	658
C18	4.163	-0.004	13989	16124	OR.MOIL (C28-C40)	7437462	694
C20	4.588	0.000	24876	5397	JET-A (C10-C18)	843653	49
C22	4.952	0.009	63849	83103			
C24	5.246	0.005	81285	16115	MSPIRIT (Tol-C12)	466363	29
C25	5.375	0.004	108698	21522			
C26	5.487	-0.003	114985	73227			
C28	5.703	-0.005	146795	89171			
C32	6.145	-0.002	78417	26197			
C34	6.411	-0.004	670875	600318			
Filter Peak	7.046	0.003	31624	16102	JP-4 (Tol-C14)	605537	53
C36	6.751	-0.004	52545	55508	CREOSOT (C8-C22)	5661054	969
C38	7.213	0.014	102690	157397			
C40	7.789	-0.007	113166	97716	BUNKERC (C10-C38)	17155530	2157

Range Times: NW Diesel(3.049 - 5.291) NW Gas(1.745 - 3.049) NW M.Oil(5.291 - 7.248)
AK102(2.464 - 5.320) AK103(5.320 - 6.804) Jet A(2.464 - 4.216)

Surrogate	Area	Amount	%Rec
o-Terphenyl	37731	2.0	87.7
Triacontane	30139	1.9	84.0

MD. 4/28/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	28923.0	08-APR-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

Data File: /chem3/fid3a.i/20080424.b/0424a055.d

Date: 25-APR-2008 02:52

Client ID:

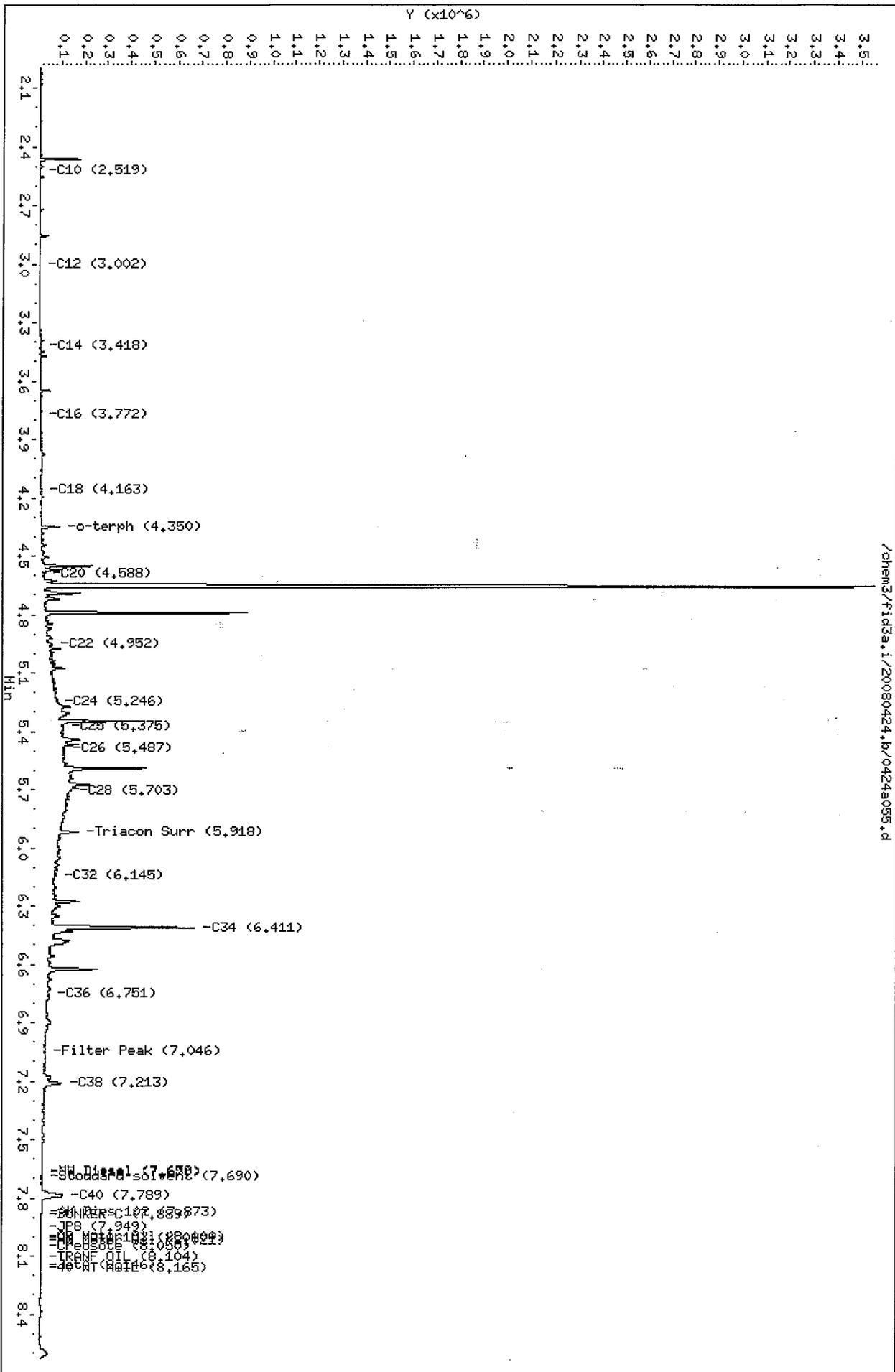
Sample Info: HT18D_20

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



ARI Data Reporting Qualifiers

Effective 11/22/04

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- NR Spiked compound recovery is not reported due to chromatographic interference
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the limit
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Soil

QC Report No: MT18-Parametrix, Inc.
Project: Yakima Resources-Phase II ESA
555-5753-001
Date Received: 04/22/08

Data Release Authorized: 
Reported: 04/28/08

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-042208	Method Blank	04/22/08	04/24/08	1.00	Diesel	5.0	< 5.0 U
08-8249	HC ID: ---		FID3A	1.0	Motor Oil o-Terphenyl	10	< 10 U 76.0%
MT18A	TP-16-2	04/22/08	04/25/08	1.00	Diesel	220	2,900
08-8249	HC ID: DRO/MOTOR OIL		FID3A	20	Motor Oil o-Terphenyl	440	9,300 83.1%
MT18B	TP-17-1.5	04/22/08	04/25/08	5.00	Diesel	190	290
08-8250	HC ID: DRO/MOTOR OIL		FID3A	5.0	Motor Oil o-Terphenyl	380	1,900 83.9%
MT18C	TP-17-2.5	04/22/08	04/25/08	5.00	Diesel	240	850
08-8251	HC ID: DRO/MOTOR OIL		FID3A	5.0	Motor Oil o-Terphenyl	480	3,600 87.2%
MT18D	TP-17-3.5	04/22/08	04/25/08	1.00	Diesel	230	2,000
08-8252	HC ID: DRO/MOTOR OIL		FID3A	20	Motor Oil o-Terphenyl	450	4,200 87.6%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.

DL-Dilution of extract prior to analysis.

RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.

Motor Oil quantitation on total peaks in the range from C24 to C38.

HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: TP-9-1.5
SAMPLE

Lab Sample ID: MK75D
LIMS ID: 08-3939
Matrix: Soil
Data Release Authorized: *VIS*
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/08/08 08:38
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.86 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 12.7%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U
208-96-8	Acenaphthylene	64	< 64 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: TP-9-1.5
SAMPLE

Lab Sample ID: MK75D
LIMS ID: 08-3939
Matrix: Soil
Date Analyzed: 03/08/08 08:38

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U
90-12-0	1-Methylnaphthalene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	59.2%	2-Fluorobiphenyl	60.8%
d14-p-Terphenyl	60.0%	d4-1,2-Dichlorobenzene	56.0%
d5-Phenol	54.9%	2-Fluorophenol	21.9%
2,4,6-Tribromophenol	85.6%	d4-2-Chlorophenol	56.3%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: TP-9-1.5
DILUTION

Lab Sample ID: MK75D
LIMS ID: 08-3939
Matrix: Soil
Data Release Authorized: *VTS*
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/10/08 22:13
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.86 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 3.00
Percent Moisture: 12.7%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	190	< 190 U
111-44-4	Bis-(2-Chloroethyl) Ether	190	< 190 U
95-57-8	2-Chlorophenol	190	< 190 U
541-73-1	1,3-Dichlorobenzene	190	< 190 U
106-46-7	1,4-Dichlorobenzene	190	< 190 U
100-51-6	Benzyl Alcohol	950	< 950 U
95-50-1	1,2-Dichlorobenzene	190	< 190 U
95-48-7	2-Methylphenol	190	< 190 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	190	< 190 U
106-44-5	4-Methylphenol	190	< 190 U
621-64-7	N-Nitroso-Di-N-Propylamine	950	< 950 U
67-72-1	Hexachloroethane	190	< 190 U
98-95-3	Nitrobenzene	190	< 190 U
78-59-1	Isophorone	190	< 190 U
88-75-5	2-Nitrophenol	950	< 950 U
105-67-9	2,4-Dimethylphenol	190	< 190 U
65-85-0	Benzoic Acid	1,900	< 1,900 U
111-91-1	bis(2-Chloroethoxy) Methane	190	< 190 U
120-83-2	2,4-Dichlorophenol	950	< 950 U
120-82-1	1,2,4-Trichlorobenzene	190	< 190 U
91-20-3	Naphthalene	190	< 190 U
106-47-8	4-Chloroaniline	950	< 950 U
87-68-3	Hexachlorobutadiene	190	< 190 U
59-50-7	4-Chloro-3-methylphenol	950	< 950 U
91-57-6	2-Methylnaphthalene	190	< 190 U
77-47-4	Hexachlorocyclopentadiene	950	< 950 U
88-06-2	2,4,6-Trichlorophenol	950	< 950 U
95-95-4	2,4,5-Trichlorophenol	950	< 950 U
91-58-7	2-Chloronaphthalene	190	< 190 U
88-74-4	2-Nitroaniline	950	< 950 U
131-11-3	Dimethylphthalate	190	< 190 U
208-96-8	Acenaphthylene	190	< 190 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
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Sample ID: TP-9-1.5
DILUTION

Lab Sample ID: MK75D
LIMS ID: 08-3939
Matrix: Soil
Date Analyzed: 03/10/08 22:13

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	950	< 950 U
83-32-9	Acenaphthene	190	< 190 U
51-28-5	2,4-Dinitrophenol	1,900	< 1,900 U
100-02-7	4-Nitrophenol	950	< 950 U
132-64-9	Dibenzofuran	190	< 190 U
606-20-2	2,6-Dinitrotoluene	950	< 950 U
121-14-2	2,4-Dinitrotoluene	950	< 950 U
84-66-2	Diethylphthalate	190	< 190 U
7005-72-3	4-Chlorophenyl-phenylether	190	< 190 U
86-73-7	Fluorene	190	< 190 U
100-01-6	4-Nitroaniline	950	< 950 U
534-52-1	4,6-Dinitro-2-Methylphenol	1,900	< 1,900 U
86-30-6	N-Nitrosodiphenylamine	190	< 190 U
101-55-3	4-Bromophenyl-phenylether	190	< 190 U
118-74-1	Hexachlorobenzene	190	< 190 U
87-86-5	Pentachlorophenol	950	< 950 U
85-01-8	Phenanthrene	190	< 190 U
86-74-8	Carbazole	190	< 190 U
120-12-7	Anthracene	190	< 190 U
84-74-2	Di-n-Butylphthalate	190	< 190 U
206-44-0	Fluoranthene	190	< 190 U
129-00-0	Pyrene	190	< 190 U
85-68-7	Butylbenzylphthalate	190	< 190 U
91-94-1	3,3'-Dichlorobenzidine	950	< 950 U
56-55-3	Benzo (a) anthracene	190	< 190 U
117-81-7	bis (2-Ethylhexyl)phthalate	190	< 190 U
218-01-9	Chrysene	190	< 190 U
117-84-0	Di-n-Octyl phthalate	190	< 190 U
205-99-2	Benzo (b) fluoranthene	190	< 190 U
207-08-9	Benzo (k) fluoranthene	190	< 190 U
50-32-8	Benzo (a) pyrene	190	< 190 U
193-39-5	Indeno (1,2,3-cd)pyrene	190	< 190 U
53-70-3	Dibenz (a,h) anthracene	190	< 190 U
191-24-2	Benzo (g,h,i)perylene	190	< 190 U
90-12-0	1-Methylnaphthalene	190	< 190 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	69.7%	2-Fluorobiphenyl	76.7%
d14-p-Terphenyl	64.9%	d4-1,2-Dichlorobenzene	64.4%
d5-Phenol	63.0%	2-Fluorophenol	42.2%
2,4,6-Tribromophenol	77.7%	d4-2-Chlorophenol	68.8%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: TP-10-8
SAMPLE

Lab Sample ID: MK75E
LIMS ID: 08-3940
Matrix: Soil
Data Release Authorized: *VTS*
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/08/08 09:12
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 0.74 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 27.3%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	680	< 680 U
111-44-4	Bis-(2-Chloroethyl) Ether	680	< 680 U
95-57-8	2-Chlorophenol	680	< 680 U
541-73-1	1,3-Dichlorobenzene	680	< 680 U
106-46-7	1,4-Dichlorobenzene	680	< 680 U
100-51-6	Benzyl Alcohol	3,400	< 3,400 U
95-50-1	1,2-Dichlorobenzene	680	< 680 U
95-48-7	2-Methylphenol	680	< 680 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	680	< 680 U
106-44-5	4-Methylphenol	680	< 680 U
621-64-7	N-Nitroso-Di-N-Propylamine	3,400	< 3,400 U
67-72-1	Hexachloroethane	680	< 680 U
98-95-3	Nitrobenzene	680	< 680 U
78-59-1	Isophorone	680	< 680 U
88-75-5	2-Nitrophenol	3,400	< 3,400 U
105-67-9	2,4-Dimethylphenol	680	< 680 U
65-85-0	Benzoic Acid	6,800	< 6,800 U
111-91-1	bis(2-Chloroethoxy) Methane	680	< 680 U
120-83-2	2,4-Dichlorophenol	3,400	< 3,400 U
120-82-1	1,2,4-Trichlorobenzene	680	< 680 U
91-20-3	Naphthalene	680	< 680 U
106-47-8	4-Chloroaniline	3,400	< 3,400 U
87-68-3	Hexachlorobutadiene	680	< 680 U
59-50-7	4-Chloro-3-methylphenol	3,400	< 3,400 U
91-57-6	2-Methylnaphthalene	680	< 680 U
77-47-4	Hexachlorocyclopentadiene	3,400	< 3,400 U
88-06-2	2,4,6-Trichlorophenol	3,400	< 3,400 U
95-95-4	2,4,5-Trichlorophenol	3,400	< 3,400 U
91-58-7	2-Chloronaphthalene	680	< 680 U
88-74-4	2-Nitroaniline	3,400	< 3,400 U
131-11-3	Dimethylphthalate	680	< 680 U
208-96-8	Acenaphthylene	680	< 680 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: TP-10-8
SAMPLE

Lab Sample ID: MK75E
LIMS ID: 08-3940
Matrix: Soil
Date Analyzed: 03/08/08 09:12

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	3,400	< 3,400 U
83-32-9	Acenaphthene	680	< 680 U
51-28-5	2,4-Dinitrophenol	6,800	< 6,800 U
100-02-7	4-Nitrophenol	3,400	< 3,400 U
132-64-9	Dibenzofuran	680	< 680 U
606-20-2	2,6-Dinitrotoluene	3,400	< 3,400 U
121-14-2	2,4-Dinitrotoluene	3,400	< 3,400 U
84-66-2	Diethylphthalate	680	< 680 U
7005-72-3	4-Chlorophenyl-phenylether	680	< 680 U
86-73-7	Fluorene	680	< 680 U
100-01-6	4-Nitroaniline	3,400	< 3,400 U
534-52-1	4,6-Dinitro-2-Methylphenol	6,800	< 6,800 U
86-30-6	N-Nitrosodiphenylamine	680	< 680 U
101-55-3	4-Bromophenyl-phenylether	680	< 680 U
118-74-1	Hexachlorobenzene	680	< 680 U
87-86-5	Pentachlorophenol	3,400	< 3,400 U
85-01-8	Phenanthrene	680	< 680 U
86-74-8	Carbazole	680	< 680 U
120-12-7	Anthracene	680	< 680 U
84-74-2	Di-n-Butylphthalate	680	< 680 U
206-44-0	Fluoranthene	680	< 680 U
129-00-0	Pyrene	680	< 680 U
85-68-7	Butylbenzylphthalate	680	< 680 U
91-94-1	3,3'-Dichlorobenzidine	3,400	< 3,400 U
56-55-3	Benzo (a) anthracene	680	< 680 U
117-81-7	bis (2-Ethylhexyl)phthalate	680	< 680 U
218-01-9	Chrysene	680	< 680 U
117-84-0	Di-n-Octyl phthalate	680	< 680 U
205-99-2	Benzo (b) fluoranthene	680	< 680 U
207-08-9	Benzo (k) fluoranthene	680	< 680 U
50-32-8	Benzo (a) pyrene	680	< 680 U
193-39-5	Indeno (1,2,3-cd) pyrene	680	< 680 U
53-70-3	Dibenz (a,h) anthracene	680	< 680 U
191-24-2	Benzo (g,h,i) perylene	680	< 680 U
90-12-0	1-Methylnaphthalene	680	< 680 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	61.2%	2-Fluorobiphenyl	64.0%
d14-p-Terphenyl	114%	d4-1,2-Dichlorobenzene	61.6%
d5-Phenol	61.9%	2-Fluorophenol	23.0%
2,4,6-Tribromophenol	82.7%	d4-2-Chlorophenol	61.1%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: TP-10-8
DILUTION

Lab Sample ID: MK75E
LIMS ID: 08-3940
Matrix: Soil
Data Release Authorized: *WDS*
Reported: 03/14/08

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001
Date Sampled: 02/27/08
Date Received: 02/28/08

Date Extracted: 03/06/08
Date Analyzed: 03/10/08 22:48
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 0.74 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 3.00
Percent Moisture: 27.3%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	2,000	< 2,000 U
111-44-4	Bis-(2-Chloroethyl) Ether	2,000	< 2,000 U
95-57-8	2-Chlorophenol	2,000	< 2,000 U
541-73-1	1,3-Dichlorobenzene	2,000	< 2,000 U
106-46-7	1,4-Dichlorobenzene	2,000	< 2,000 U
100-51-6	Benzyl Alcohol	10,000	< 10,000 U
95-50-1	1,2-Dichlorobenzene	2,000	< 2,000 U
95-48-7	2-Methylphenol	2,000	< 2,000 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	2,000	< 2,000 U
106-44-5	4-Methylphenol	2,000	< 2,000 U
621-64-7	N-Nitroso-Di-N-Propylamine	10,000	< 10,000 U
67-72-1	Hexachloroethane	2,000	< 2,000 U
98-95-3	Nitrobenzene	2,000	< 2,000 U
78-59-1	Isophorone	2,000	< 2,000 U
88-75-5	2-Nitrophenol	10,000	< 10,000 U
105-67-9	2,4-Dimethylphenol	2,000	< 2,000 U
65-85-0	Benzoic Acid	20,000	< 20,000 U
111-91-1	bis(2-Chloroethoxy) Methane	2,000	< 2,000 U
120-83-2	2,4-Dichlorophenol	10,000	< 10,000 U
120-82-1	1,2,4-Trichlorobenzene	2,000	< 2,000 U
91-20-3	Naphthalene	2,000	< 2,000 U
106-47-8	4-Chloroaniline	10,000	< 10,000 U
87-68-3	Hexachlorobutadiene	2,000	< 2,000 U
59-50-7	4-Chloro-3-methylphenol	10,000	< 10,000 U
91-57-6	2-Methylnaphthalene	2,000	< 2,000 U
77-47-4	Hexachlorocyclopentadiene	10,000	< 10,000 U
88-06-2	2,4,6-Trichlorophenol	10,000	< 10,000 U
95-95-4	2,4,5-Trichlorophenol	10,000	< 10,000 U
91-58-7	2-Chloronaphthalene	2,000	< 2,000 U
88-74-4	2-Nitroaniline	10,000	< 10,000 U
131-11-3	Dimethylphthalate	2,000	< 2,000 U
208-96-8	Acenaphthylene	2,000	< 2,000 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: TP-10-8
DILUTION

Lab Sample ID: MK75E
LIMS ID: 08-3940
Matrix: Soil
Date Analyzed: 03/10/08 22:48

QC Report No: MK75-Parametrix, Inc.
Project: Yakima
555-5753-001

CAS Number	Analyte	RL	Result
99-09-2	3-Nitroaniline	10,000	< 10,000 U
83-32-9	Acenaphthene	2,000	< 2,000 U
51-28-5	2,4-Dinitrophenol	20,000	< 20,000 U
100-02-7	4-Nitrophenol	10,000	< 10,000 U
132-64-9	Dibenzofuran	2,000	< 2,000 U
606-20-2	2,6-Dinitrotoluene	10,000	< 10,000 U
121-14-2	2,4-Dinitrotoluene	10,000	< 10,000 U
84-66-2	Diethylphthalate	2,000	< 2,000 U
7005-72-3	4-Chlorophenyl-phenylether	2,000	< 2,000 U
86-73-7	Fluorene	2,000	< 2,000 U
100-01-6	4-Nitroaniline	10,000	< 10,000 U
534-52-1	4,6-Dinitro-2-Methylphenol	20,000	< 20,000 U
86-30-6	N-Nitrosodiphenylamine	2,000	< 2,000 U
101-55-3	4-Bromophenyl-phenylether	2,000	< 2,000 U
118-74-1	Hexachlorobenzene	2,000	< 2,000 U
87-86-5	Pentachlorophenol	10,000	< 10,000 U
85-01-8	Phenanthrene	2,000	< 2,000 U
86-74-8	Carbazole	2,000	< 2,000 U
120-12-7	Anthracene	2,000	< 2,000 U
84-74-2	Di-n-Butylphthalate	2,000	< 2,000 U
206-44-0	Fluoranthene	2,000	< 2,000 U
129-00-0	Pyrene	2,000	< 2,000 U
85-68-7	Butylbenzylphthalate	2,000	< 2,000 U
91-94-1	3,3'-Dichlorobenzidine	10,000	< 10,000 U
56-55-3	Benzo (a) anthracene	2,000	< 2,000 U
117-81-7	bis (2-Ethylhexyl) phthalate	2,000	< 2,000 U
218-01-9	Chrysene	2,000	< 2,000 U
117-84-0	Di-n-Octyl phthalate	2,000	< 2,000 U
205-99-2	Benzo (b) fluoranthene	2,000	< 2,000 U
207-08-9	Benzo (k) fluoranthene	2,000	< 2,000 U
50-32-8	Benzo (a) pyrene	2,000	< 2,000 U
193-39-5	Indeno (1,2,3-cd) pyrene	2,000	< 2,000 U
53-70-3	Dibenz (a, h) anthracene	2,000	< 2,000 U
191-24-2	Benzo (g, h, i) perylene	2,000	< 2,000 U
90-12-0	1-Methylnaphthalene	2,000	< 2,000 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	67.7%	2-Fluorobiphenyl	69.6%
d14-p-Terphenyl	79.6%	d4-1,2-Dichlorobenzene	62.2%
d5-Phenol	56.8%	2-Fluorophenol	43.4%
2,4,6-Tribromophenol	80.8%	d4-2-Chlorophenol	64.9%



Analytical Resources, Incorporated
Analytical Chemists and Consultants

29 April 2008

Annika Deutsch
Parametrix, Inc.
411 108th Avenue NE
Suite 1800
Bellevue, WA 98004-5571

RE: Project: Yakima Resources-Phase II ESA
ARI Job No. MT18

Dear Annika:

Please find enclosed the original Chain of Custody (COC) record and the final results for the samples from the project referenced above. Analytical Resources, Inc. received four soil samples on April 22, 2008. The samples were received intact and there were no discrepancies in the paperwork. The samples were analyzed for NWTPH-Dx as requested.

There were no analytical complications noted.

As always, a copy of these reports and all raw data will remain on file at ARI. If you have questions, or require further information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
206-695-6210
<markh@arilabs.com>

Enclosures

cc: File MT18

MDH/mdh

ARI Data Reporting Qualifiers

Effective 11/22/04

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- NR Spiked compound recovery is not reported due to chromatographic interference
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the limit
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Soil

QC Report No: MT18-Parametrix, Inc.
Project: Yakima Resources-Phase II ESA
555-5753-001
Date Received: 04/22/08

Data Release Authorized: 
Reported: 04/28/08

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-042208	Method Blank	04/22/08	04/24/08	1.00	Diesel	5.0	< 5.0 U
08-8249	HC ID: ---		FID3A	1.0	Motor Oil o-Terphenyl	10	< 10 U 76.0%
MT18A	TP-16-2	04/22/08	04/25/08	1.00	Diesel	220	2,900
08-8249	HC ID: DRO/MOTOR OIL		FID3A	20	Motor Oil o-Terphenyl	440	9,300 83.1%
MT18B	TP-17-1.5	04/22/08	04/25/08	5.00	Diesel	190	290
08-8250	HC ID: DRO/MOTOR OIL		FID3A	5.0	Motor Oil o-Terphenyl	380	1,900 83.9%
MT18C	TP-17-2.5	04/22/08	04/25/08	5.00	Diesel	240	850
08-8251	HC ID: DRO/MOTOR OIL		FID3A	5.0	Motor Oil o-Terphenyl	480	3,600 87.2%
MT18D	TP-17-3.5	04/22/08	04/25/08	1.00	Diesel	230	2,000
08-8252	HC ID: DRO/MOTOR OIL		FID3A	20	Motor Oil o-Terphenyl	450	4,200 87.6%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID

Page 1 of 1

Sample ID: LCS-042208

LAB CONTROL

Lab Sample ID: LCS-042208

LIMS ID: 08-8249

Matrix: Soil

Data Release Authorized:

Reported: 04/28/08

QC Report No: MT18-Parametrix, Inc.

Project: Yakima Resources-Phase II ESA

555-5753-001

Date Sampled: NA

Date Received: NA

Date Extracted: 04/22/08

Date Analyzed: 04/24/08 18:43

Instrument/Analyst: FID3A/MS

Sample Amount: 10.0 g

Final Extract Volume: 1.0 mL

Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	110	150	73.3%

TPHD Surrogate Recovery

o-Terphenyl	89.8%
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Results reported in mg/kg

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080424.b/0424a024.d
Method: /chem3/fid3a.i/20080424.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 04/28/2008
Macro: FID:3A042408

ARI ID: MT16MBS1
Client ID: MT16MBS1
Injection: 24-APR-2008 18:58
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.795	-0.001	15408	12164	GAS (Tol-C12)	389902	13
C8	1.929	0.006	5622	1226	DIESEL (C12-C24)	176840	12
C10	2.516	0.002	3981	4051	M.OIL (C24-C38)	220838	20
C12	3.012	0.013	2625	1651	AK-102 (C10-C25)	285823	16
C14	3.404	-0.008	2060	3471	AK-103 (C25-C36)	168182	19
C16	3.769	-0.005	1527	2094	OR.DIES (C10-C28)	325497	20
C18	4.162	-0.004	968	646	OR.MOIL (C28-C40)	236605	22
C20	4.591	0.004	1857	2695	JET-A (C10-C18)	213347	12
C22	4.944	0.001	1025	362			
C24	5.234	-0.007	1580	2254	MSPIRIT (Tol-C12)	389902	25
C25	5.375	0.005	1255	448			
C26	5.486	-0.004	1345	857			
C28	5.712	0.004	2158	2312			
C32	6.142	-0.004	2509	699			
C34	6.416	0.001	2269	951			
Filter Peak	7.044	0.001	2107	1996	JP-4 (Tol-C14)	440243	39
C36	6.756	0.001	2053	572	CREOSOT (C8-C22)	470177	80
C38	7.200	0.002	2053	976			
C40	7.800	0.004	1879	1305	BUNKERC (C10-C38)	504429	63

Range Times: NW Diesel(3.049 - 5.291) NW Gas(1.745 - 3.049) NW M.Oil(5.291 - 7.248)
AK102(2.464 - 5.320) AK103(5.320 - 6.804) Jet A(2.464 - 4.216)

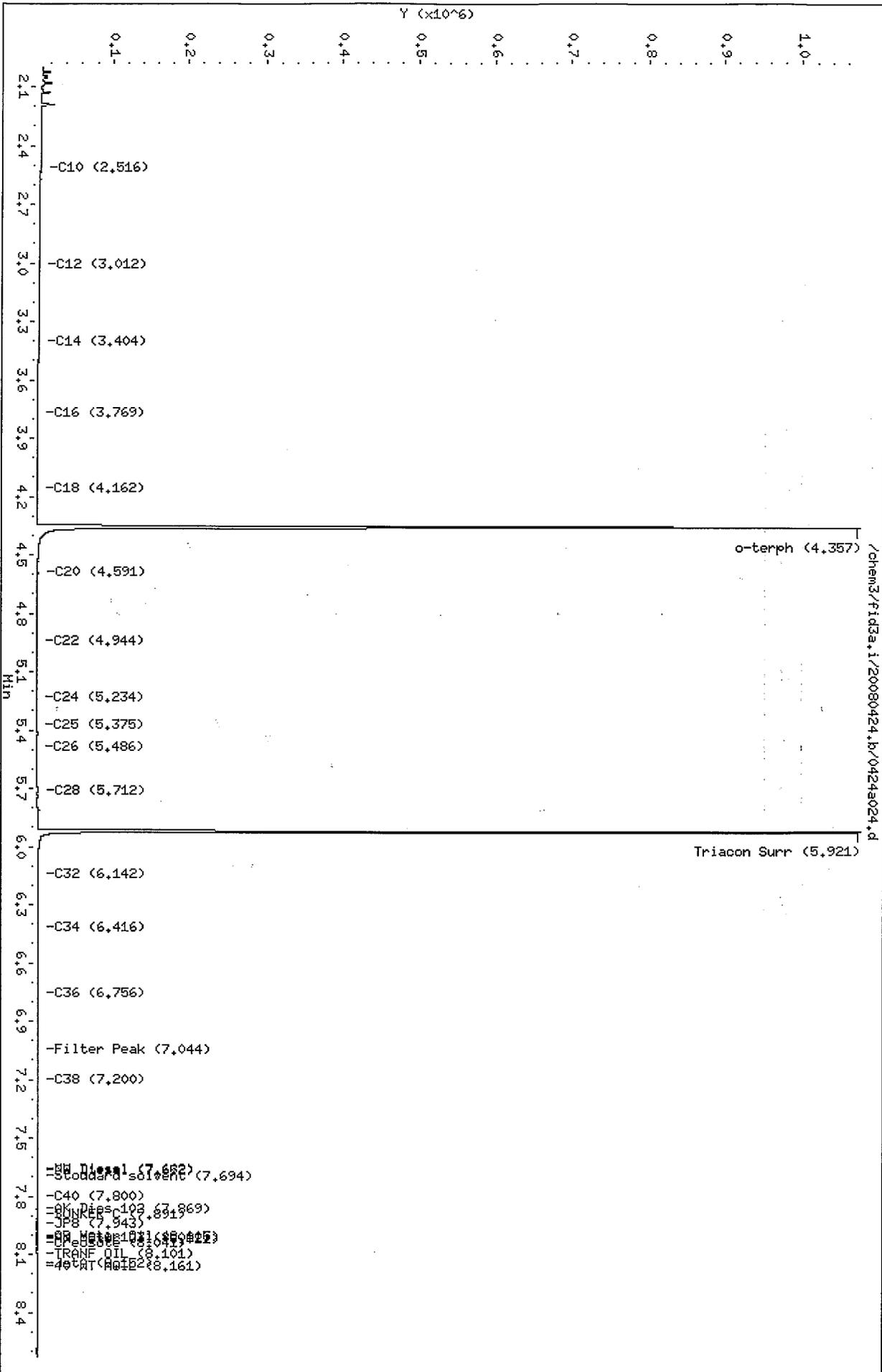
Surrogate	Area	Amount	%Rec
o-Terphenyl	652866	34.2	75.9
triacontane	567287	35.6	79.1

mo 4/28/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	28923.0	08-APR-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

Data File: /chem3/fid3a.1/20080424.b/0424a024.d
 Date: 24-APR-2008 18:58
 Client ID: HT16HBS1
 Sample Info: HT16HBS1
 Column phase: RTX-1

Instrument: fid3a.i
 Operator: JR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080424.b/0424a023.d
Method: /chem3/fid3a.i/20080424.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 04/28/2008
Macro: FID:3A042408

ARI ID: MT16LCSS1
Client ID: MT16LCSS1
Injection: 24-APR-2008 18:43
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.796	0.001	31471	20657	GAS (Tol-C12)	3670302	127
C8	1.923	0.001	28169	19546	DIESEL (C12-C24)	16927360	1102
C10	2.515	0.001	328684	137277	M.OIL (C24-C38)	539457	48
C12	3.000	0.001	594801	239794	AK-102 (C10-C25)	19825222	1083
C14	3.411	-0.002	752608	401532	AK-103 (C25-C36)	451286	50
C16	3.776	0.002	813097	441073	OR.DIES (C10-C28)	20115652	1245
C18	4.170	0.004	493513	406851	OR.MOIL (C28-C40)	270675	25
C20	4.588	0.001	389504	244006	JET-A (C10-C18)	14967833	864
C22	4.943	0.000	155685	114886			
C24	5.241	0.000	63485	65106	MSPIRIT (Tol-C12)	3670302	232
C25	5.372	0.002	36102	45266			
C26	5.493	0.003	20908	28468			
C28	5.714	0.006	8330	9203			
C32	6.149	0.003	3187	1133			
C34	6.417	0.002	2617	1299			
Filter Peak	7.043	0.000	2170	475	JP-4 (Tol-C14)	7726728	680
C36	6.755	0.001	2239	804	CREOSOT (C8-C22)	19932043	3412
C38	7.195	-0.003	2138	553			
C40	7.801	0.005	2035	526	BUNKERC (C10-C38)	20323716	2556

Range Times: NW Diesel(3.049 - 5.291) NW Gas(1.745 - 3.049) NW M.Oil(5.291 - 7.248)
AK102(2.464 - 5.320) AK103(5.320 - 6.804) Jet A(2.464 - 4.216)

Surrogate	Area	Amount	%Rec
o-Terphenyl	772974	40.4	89.9
Triacontane	670392	42.1	93.5

ms 4/28/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	28923.0	08-APR-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

Data File: /chem3/fid3a.i/20080424.b/0424a023.d

Date: 24-APR-2008 18:43

Client ID: HT16LCSS1

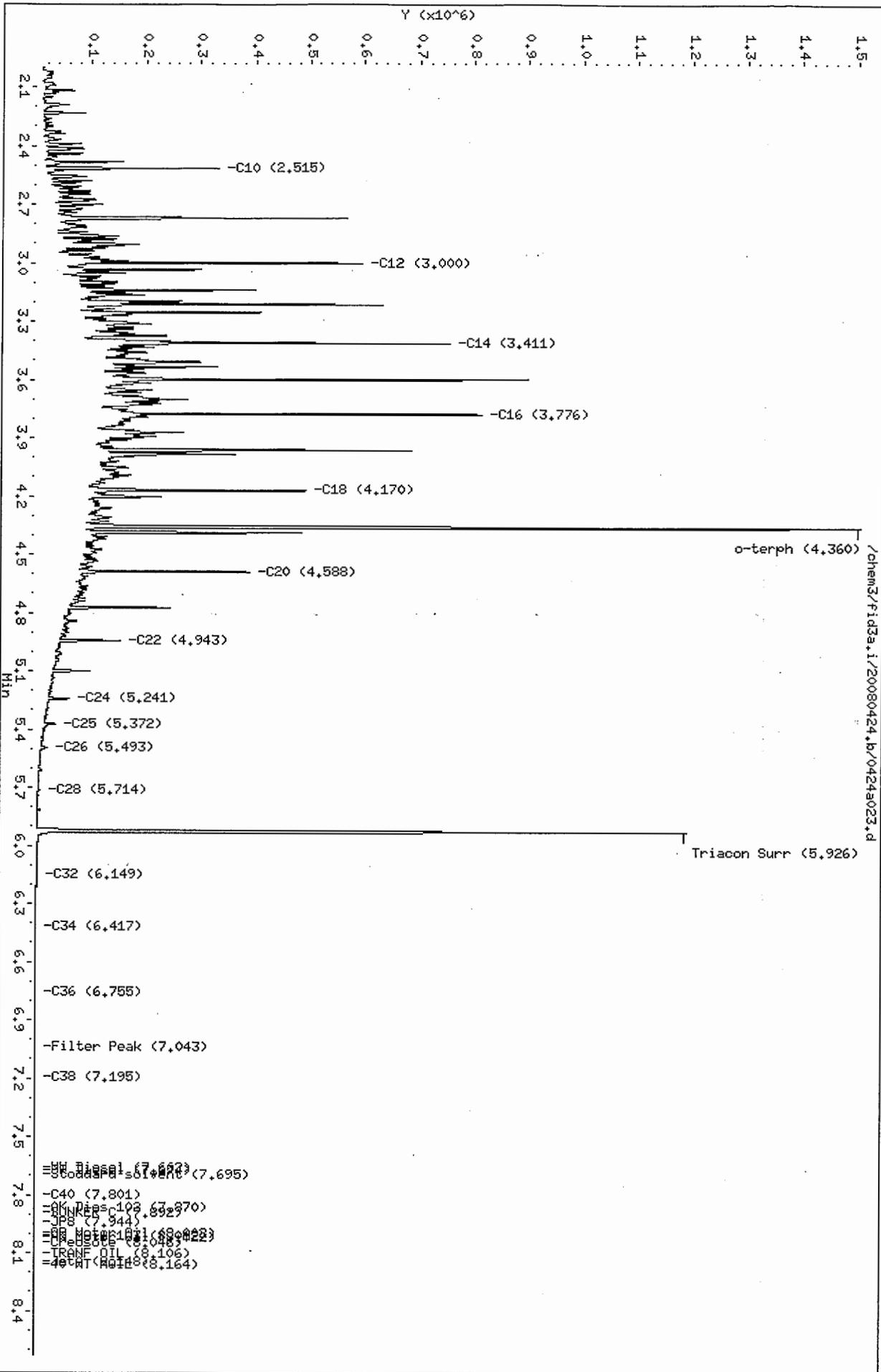
Sample Info: HT16LCSS1

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080424.b/0424a049.d
Method: /chem3/fid3a.i/20080424.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 04/25/2008
Macro: FID:3A042408

ARI ID: MT18A
Client ID:
Injection: 25-APR-2008 01:21
Dilution Factor: 20 ✓

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.793	-0.002	7244	6368	GAS (Tol-C12)	387704	13
C8	1.920	-0.002	5673	3684	DIESEL (C12-C24)	9977858	650
C10	2.519	0.005	4154	5890	M.OIL (C24-C38)	23831665	2119
C12	3.000	0.001	6777	10156	AK-102 (C10-C25)	10479201	573
C14	3.416	0.003	6585	4376	AK-103 (C25-C36)	21505181	2391
C16	3.769	-0.005	12679	13900	OR.DIES (C10-C28)	17854972	1106
C18	4.164	-0.002	8951	10452	OR.MOIL (C28-C40)	17664001	1649
C20	4.595	0.008	52757	33069	JET-A (C10-C18)	898198	52
C22	4.951	0.008	88156	108932			
C24	5.240	-0.001	200564	67082	MSPiRiT (Tol-C12)	387704	24
C25	5.366	-0.004	260279	201453			
C26	5.495	0.005	276444	379125			
C28	5.708	0.000	318428	81422			
C32	6.147	0.001	210068	50033			
C34	6.418	0.003	853624	1016548			
Filter Peak	7.041	-0.002	71809	27646	JP-4 (Tol-C14)	531518	47
C36	6.758	0.003	99614	21818	CREOSOT (C8-C22)	5836433	999
C38	7.197	-0.001	71038	16629			
C40	7.806	0.009	33588	4691	BUNKERC (C10-C38)	33983705	4274

Range Times: NW Diesel(3.049 - 5.291) NW Gas(1.745 - 3.049) NW M.Oil(5.291 - 7.248)
AK102(2.464 - 5.320) AK103(5.320 - 6.804) Jet A(2.464 - 4.216)

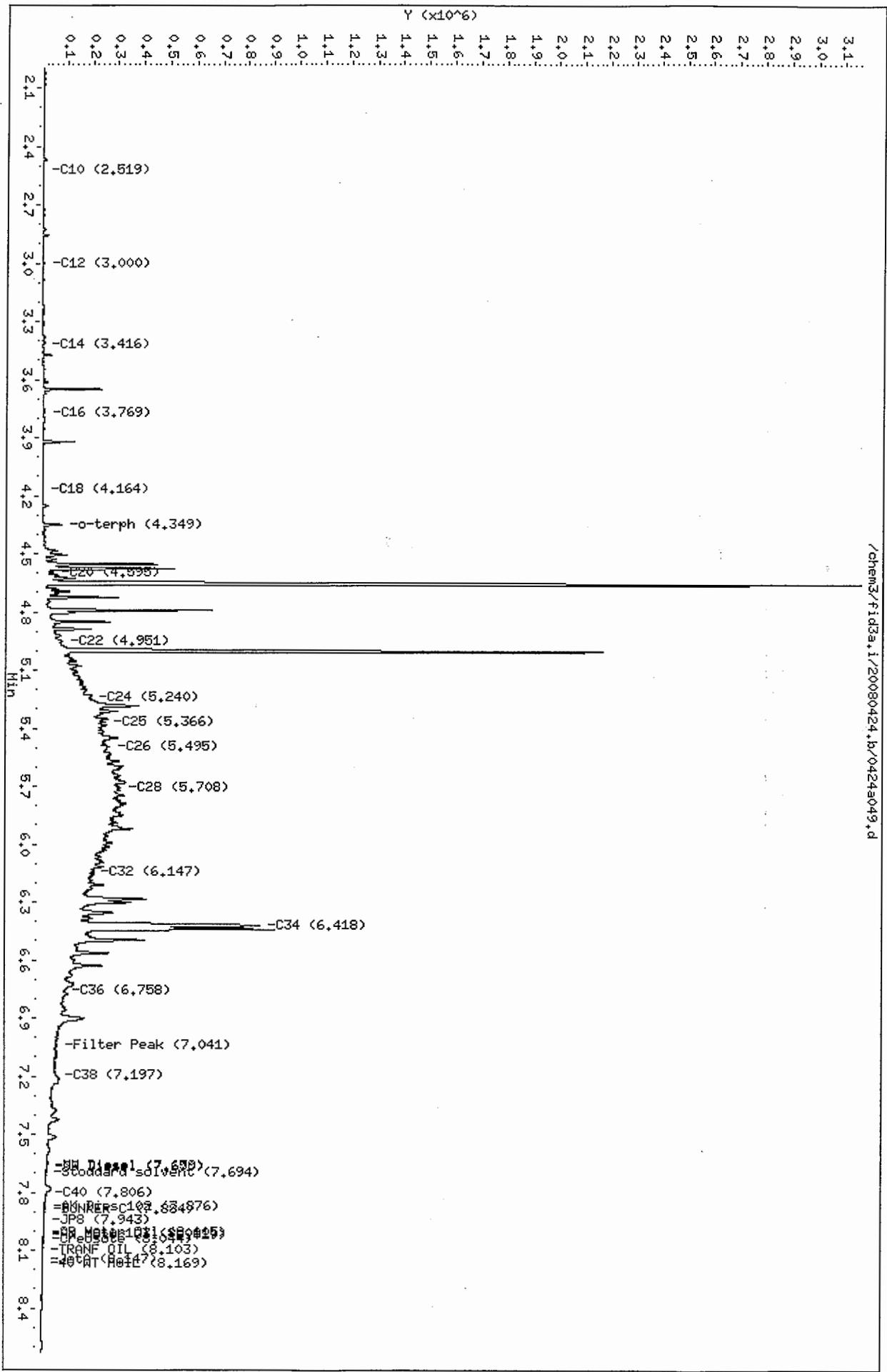
Surrogate	Area	Amount	%Rec
o-Terphenyl	35775	1.9	83.2
Triacontane	0	0.0	0.0

ms 4/28/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	28923.0	08-APR-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

Data File: /chem3/fid3a.i/20080424.b/0424a049.d
 Date: 25-APR-2008 01:21
 Client ID:
 Sample Info: HT18A/20
 Column phase: RTX-1

Instrument: fid3a.i
 Operator: JR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080424.b/0424a050.d
Method: /chem3/fid3a.i/20080424.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 04/25/2008
Macro: FID:3A042408

ARI ID: MT18B
Client ID:
Injection: 25-APR-2008 01:36
Dilution Factor: 5

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.794	-0.001	10288	11680	GAS (Tol-C12)	359678	12
C8	1.918	-0.004	5831	3139	DIESEL (C12-C24)	1162367	76
C10	2.523	0.008	4610	8221	M.OIL (C24-C38)	5501373	489
C12	2.987	-0.012	5170	8353	AK-102 (C10-C25)	1395994	76
C14	3.413	0.001	4387	4103	AK-103 (C25-C36)	4808499	535
C16	3.781	0.007	3900	6684	OR.DIES (C10-C28)	3112344	193
C18	4.168	0.001	3538	3888	OR.MOIL (C28-C40)	4244896	396
C20	4.577	-0.010	7073	7591	JET-A (C10-C18)	375636	22
C22	4.939	-0.004	15890	11237			
C24	5.245	0.004	38899	16162	MSPIRIT (Tol-C12)	359678	23
C25	5.366	-0.004	52963	33758			
C26	5.492	0.002	60927	31345			
C28	5.701	-0.007	81195	58604			
C32	6.148	0.001	52680	21730			
C34	6.421	0.006	52104	41315			
Filter Peak	7.046	0.003	20452	15019	JP-4 (Tol-C14)	441906	39
C36	6.751	-0.003	30266	8923	CREOSOT (C8-C22)	922646	158
C38	7.202	0.004	35538	62650			
C40	7.802	0.006	12639	8089	BUNKERC (C10-C38)	6799759	855

Range Times: NW Diesel(3.049 - 5.291) NW Gas(1.745 - 3.049) NW M.Oil(5.291 - 7.248)
AK102(2.464 - 5.320) AK103(5.320 - 6.804) Jet A(2.464 - 4.216)

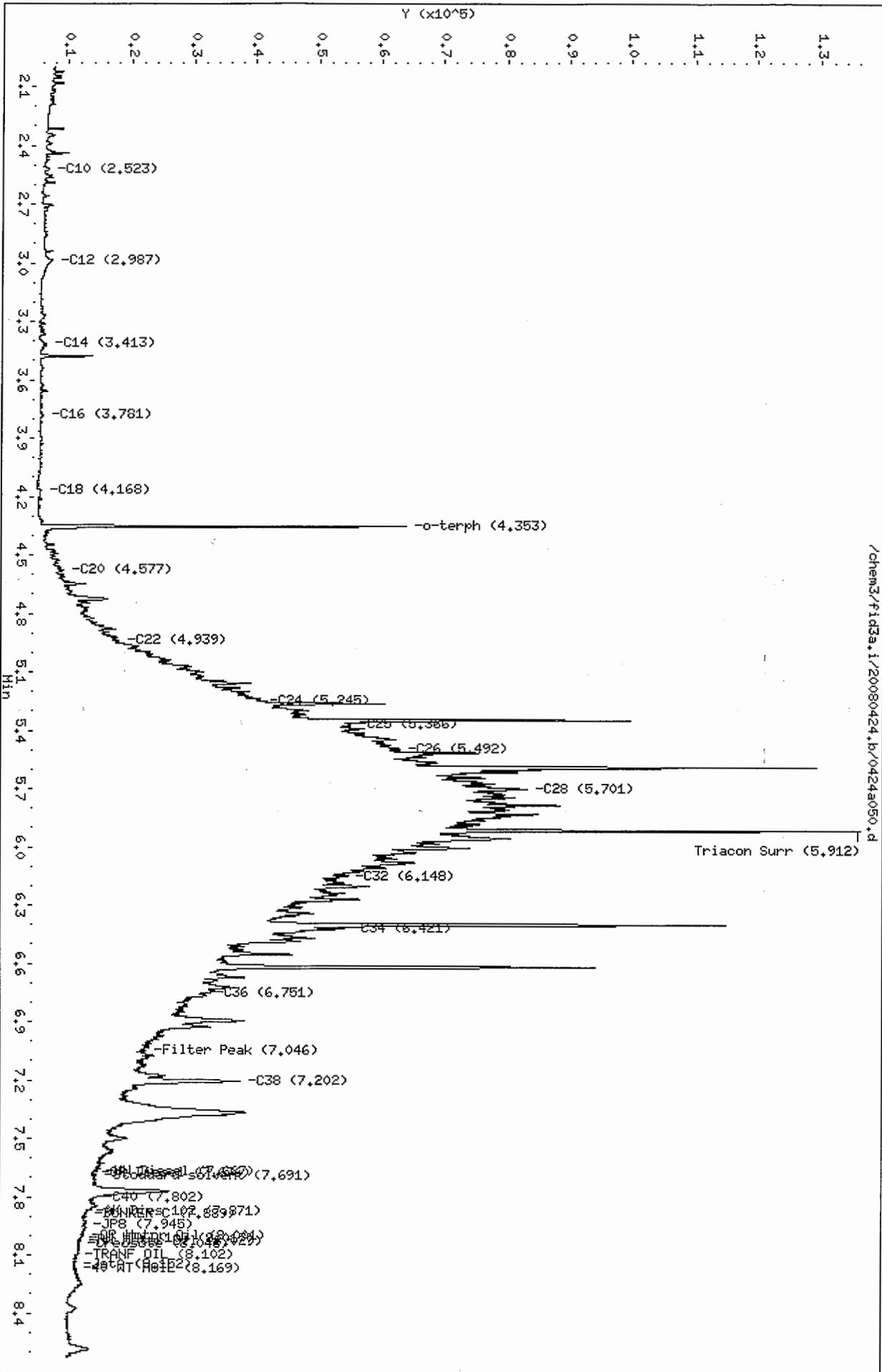
Surrogate	Area	Amount	%Rec
o-Terphenyl	28813	1.5	16.7
Triacontane	32833	2.1	22.9

ma 4/28/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	28923.0	08-APR-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

Data File: /chem3/fid3a.i/20080424.b/0424a050.d
 Date: 25-APR-2008 01:36
 Client ID:
 Sample Info: HT18B,5
 Column phase: RTX-1

Instrument: fid3a.i
 Operator: JR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080424.b/0424a051.d
Method: /chem3/fid3a.i/20080424.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 04/25/2008
Macro: FID:3A042408

ARI ID: MT18C
Client ID:
Injection: 25-APR-2008 01:52
Dilution Factor: 5

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.794	-0.001	31269	24691	GAS (Tol-C12)	368516	13
C8	1.923	0.000	5775	3757	DIESEL (C12-C24)	2709876	176
C10	2.523	0.009	5011	6682	M.OIL (C24-C38)	8457327	752
C12	2.987	-0.012	4253	8417	AK-102 (C10-C25)	2999196	164
C14	3.410	-0.003	9765	5684	AK-103 (C25-C36)	7440201	827
C16	3.777	0.003	5215	6736	OR.DIES (C10-C28)	5914582	366
C18	4.165	-0.002	5778	5041	OR.MOIL (C28-C40)	6243816	583
C20	4.594	0.007	14667	10706	JET-A (C10-C18)	478937	28
C22	4.942	-0.001	35890	16745			
C24	5.246	0.005	69479	16510	MSPRIT (Tol-C12)	368516	23
C25	5.372	0.001	91344	21668			
C26	5.494	0.004	97273	28894			
C28	5.705	-0.003	139507	154709			
C32	6.144	-0.002	66094	38921			
C34	6.407	-0.009	438816	388345			
Filter Peak	7.042	-0.001	27675	7601	JP-4 (Tol-C14)	463384	41
C36	6.755	0.001	40341	15708	CREOSOT (C8-C22)	1947053	333
C38	7.210	0.011	89835	137708			
C40	7.787	-0.009	97916	95277	BUNKERC (C10-C38)	11302752	1421

Range Times: NW Diesel (3.049 - 5.291) NW Gas (1.745 - 3.049) NW M.Oil (5.291 - 7.248)
AK102 (2.464 - 5.320) AK103 (5.320 - 6.804) Jet A (2.464 - 4.216)

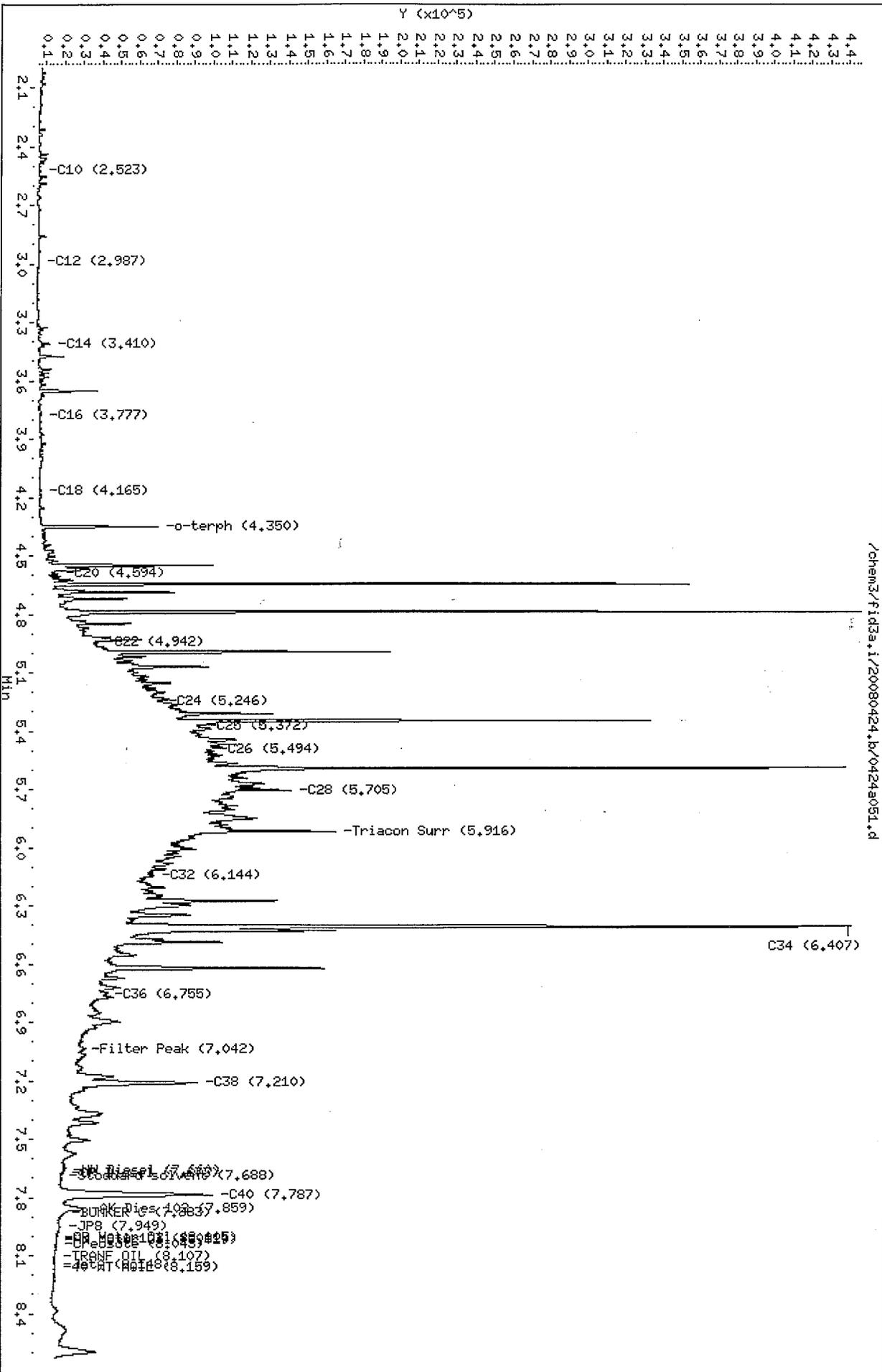
Surrogate	Area	Amount	%Rec
o-Terphenyl	29998	1.6	17.4
Triacontane	25467	1.6	17.8

mo. 4/28/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	28923.0	08-APR-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

Data File: /chem3/fid3a.i/20080424.b/0424a051.d
 Date: 25-APR-2008 01:52
 Client ID:
 Sample Info: MT18C,5
 Column phase: RTX-1

Instrument: fid3a.i
 Operator: JR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080424.b/0424a055.d
Method: /chem3/fid3a.i/20080424.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 04/25/2008
Macro: FID:3A042408

ARI ID: MT18D
Client ID:
Injection: 25-APR-2008 02:52
Dilution Factor: 20

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.795	-0.001	8775	11216	GAS (Tol-C12)	466363	16
C8	1.923	0.000	5791	4343	DIESEL (C12-C24)	6616211	431
C10	2.519	0.004	4918	6418	M.OIL (C24-C38)	10374018	923
C12	3.002	0.002	4369	4874	AK-102 (C10-C25)	7076079	387
C14	3.418	0.005	9090	7294	AK-103 (C25-C36)	9048633	1006
C16	3.772	-0.003	12466	17306	OR.DIES (C10-C28)	10625394	658
C18	4.163	-0.004	13989	16124	OR.MOIL (C28-C40)	7437462	694
C20	4.588	0.000	24876	5397	JET-A (C10-C18)	843653	49
C22	4.952	0.009	63849	83103			
C24	5.246	0.005	81285	16115	MSPIRIT (Tol-C12)	466363	29
C25	5.375	0.004	108698	21522			
C26	5.487	-0.003	114985	73227			
C28	5.703	-0.005	146795	89171			
C32	6.145	-0.002	78417	26197			
C34	6.411	-0.004	670875	600318			
Filter Peak	7.046	0.003	31624	16102	JP-4 (Tol-C14)	605537	53
C36	6.751	-0.004	52545	55508	CREOSOT (C8-C22)	5661054	969
C38	7.213	0.014	102690	157397			
C40	7.789	-0.007	113166	97716	BUNKERC (C10-C38)	17155530	2157

Range Times: NW Diesel(3.049 - 5.291) NW Gas(1.745 - 3.049) NW M.Oil(5.291 - 7.248)
AK102(2.464 - 5.320) AK103(5.320 - 6.804) Jet A(2.464 - 4.216)

Surrogate	Area	Amount	%Rec
o-Terphenyl	37731	2.0	87.7
Triacontane	30139	1.9	84.0

MD. 4/28/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	28923.0	08-APR-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

Data File: /chem3/fid3a.i/20080424.b/0424a055.d

Date: 25-APR-2008 02:52

Client ID:

Sample Info: HT16D,20

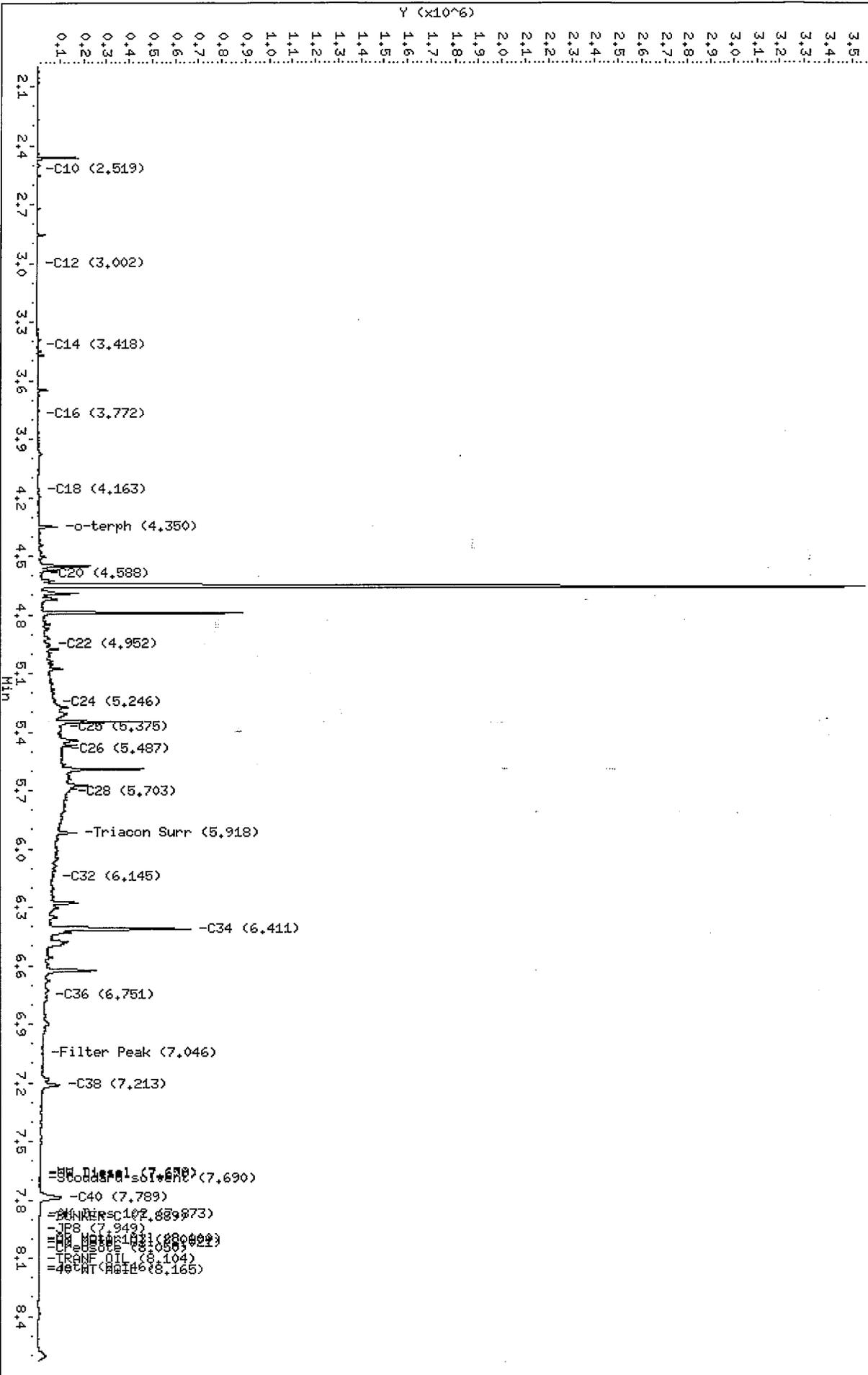
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

/chem3/fid3a.i/20080424.b/0424a055.d





Analytical Resources, Incorporated

Analytical Chemists and Consultants

3 June 2008

Kurt Easthouse
Parametrix, Inc.
411 108th Avenue NE
Suite 1800
Bellevue, WA 98004-5571

**RE: Project: Yakima-Former Boise Cascade
ARI Job No. MY41**

Dear Kurt:

Please find enclosed copies of the original Chain of Custody (COC) records and the final results for the samples from the project referenced above. Analytical Resources, Inc. received thirteen soil samples on May 21, 2008. The samples were received intact and there were no discrepancies in the paperwork. The samples were placed on hold as instructed. Seven samples were analyzed for NWTPH-Dx as requested on 5/29/08.

The percent recovery for the surrogate, o-terphenyl, was low following the initial analysis of sample TP-23-7. This sample was re-extracted and re-analyzed. The re-extraction proceeded without incident of note. Since the re-extraction was performed within holding time, the results for the re-analysis only have been submitted.

There were no further analytical complications noted.

As always, a copy of these reports and all raw data will remain on file at ARI. If you have questions, or require further information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

A handwritten signature in black ink that reads "Mark D. Harris".

Mark D. Harris
Project Manager
206-695-6210
<markh@arilabs.com>

Enclosures

cc: File MY41

MDH/mdh

ROI-55

2 day

TAFT

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: MX54 Turn-around Requested: 1 of 2 Pages

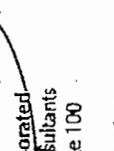
ARI Client Company: PARAMETRIX Phone: _____

Client Contact: RUBEN PASTORUS

Client Project Name: YAZIMA - FORMER BOLE CASCADE

Client Project #: _____

Sampler: ADAM ROMY



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested			Notes/Comments	
					Ice Present?	No. of Coolers	Cooler Temp(s)		
TP-18-5	5/19/08	1130	SOIL	1				24-48 = TPH	
TP-18-7A		1155						REGOCAR = SVOC	
TP-18-7B		1200							
TP-19-3		1210							
TP-20-10		1240							
TP-21-13		1300							
TP-22-13		1332							
TP-23-7		1438							
TP-23-11		1444							
TP-24-4		1502							
Comments/Special Instructions	Requested by: <u>Bob England</u> (Signature) Printed Name: _____ Company: _____ Date & Time: <u>5/21/08</u>				Fulfilled by: <u>Bob England</u> (Signature) Printed Name: _____ Company: _____ Date & Time: <u>5/21/08</u>				Received by: _____ (Signature) Printed Name: _____ Company: _____ Date & Time: _____

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI releases ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

ARI Data Reporting Qualifiers

Effective 11/22/04

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- NR Spiked compound recovery is not reported due to chromatographic interference
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the limit
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Soil

QC Report No: MY41-Parametrix, Inc.
Project: Yakima - Former Boise Cascade

Data Release Authorized:
Reported: 06/03/08 

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-052908 08-11212	Method Blank HC ID: ---	05/29/08	05/30/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.0 10	< 5.0 U < 10 U 80.0%
MY41A 08-11212	TP-20-10 HC ID: MOTOR OIL	05/29/08	05/30/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.4 11	< 5.4 U 12 84.7%
MY41B 08-11213	TP-21-13 HC ID: DRO/MOTOR OIL	05/29/08	05/30/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	7.7 15	210 240 87.6%
MY41C 08-11214	TP-22-13 HC ID: DRO/MOTOR OIL	05/29/08	05/30/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	12 23	92 320 67.1%
MB-060208 08-11215	Method Blank HC ID: ---	06/02/08	06/02/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.0 10	< 5.0 U < 10 U 90.9%
MY41D 08-11215	TP-23-7 HC ID: DRO/MOTOR OIL	06/02/08	06/02/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	12 23	240 380 59.6%
MY41E 08-11216	TP-24-4 HC ID: DRO/MOTOR OIL	05/29/08	05/30/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	11 22	340 410 66.2%
MY41F 08-11217	TP-25-12 HC ID: ---	05/29/08	05/31/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.4 13	< 6.4 U < 13 U 69.8%
MY41G 08-11218	TP-26-7 HC ID: ---	05/29/08	05/30/08 FID3A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.8 14	< 6.8 U < 14 U 66.0%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1

Sample ID: LCS-052908
LAB CONTROL

Lab Sample ID: LCS-052908

QC Report No: MY41-Parametrix, Inc.

LIMS ID: 08-11212

Project: Yakima - Former Boise Cascade

Matrix: Soil

Data Release Authorized:

Date Sampled: 05/19/08

Reported: 06/03/08 

Date Received: 05/21/08

Date Extracted: 05/29/08

Sample Amount: 100 g

Date Analyzed: 05/30/08 19:33

Final Extract Volume: 1.0 mL

Instrument/Analyst: FID/JGR

Dilution Factor: 1.0

Range	Lab Control	Spike Added	Recovery
Diesel	8.5	15.0	56.7%

TPHD Surrogate Recovery

o-Terphenyl	69.8%
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Results reported in mg/kg

ORGANICS ANALYSIS DATA SHEET
 NWTPHD by GC/FID-Silica and Acid Cleaned
 Page 1 of 1

Sample ID: LCS-060208
 LAB CONTROL

Lab Sample ID: LCS-060208
 LIMS ID: 08-11215
 Matrix: Soil
 Data Release Authorized:
 Reported: 06/03/08

QC Report No: MY41-Parametrix, Inc.
 Project: Yakima - Former Boise Cascade
 Date Sampled: 05/19/08
 Date Received: 05/21/08

Date Extracted: 06/02/08
 Date Analyzed: 06/02/08 19:29
 Instrument/Analyst: FID/MS

Sample Amount: 10.0 g
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.0

Range	Lab Control	Spike Added	Recovery
Diesel	119	150	79.3%

TPHD Surrogate Recovery

o-Terphenyl	92.7%
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Results reported in mg/kg

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080530.b/0530a053.d
Method: /chem3/fid3a.i/20080530.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ar
Report Date: 05/31/2008
Macro: FID:3A051308

ARI ID: MY41MBS1
Client ID:
Injection: 30-MAY-2008 19:49
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.782	0.002	4760	3973	GAS (Tol-C12)	180798	3
C8	1.909	0.002	2468	2326	DIESEL (C12-C24)	176156	11
C10	2.500	0.002	2184	2712	M.OIL (C24-C38)	443055	39
C12	2.982	-0.002	1402	752	AK-102 (C10-C25)	233938	13
C14	3.399	-0.003	1048	580	AK-103 (C25-C36)	337991	38
C16	3.764	0.003	1182	1148	OR.DIES (C10-C28)	318405	20
C18	4.151	0.004	1294	1389	OR.MOIL (C28-C40)	485469	45
C20	4.573	0.004	2110	2676	JET-A (C10-C18)	135778	8
C22	4.922	-0.005	1427	284			
C24	5.226	-0.001	2017	824	MSPIRIT (Tol-C12)	180798	11
C25	5.364	0.006	3952	5314			
C26	5.483	0.004	5539	5747			
C28	5.696	-0.005	8020	9120			
C32	6.147	0.010	5923	15940			
C34	6.403	0.000	4490	2237			
Filter Peak	7.065	-0.003	4078	1377	JP-4 (Tol-C14)	212210	19
C36	6.734	-0.002	4229	844	CREOSOT (C8-C22)	290498	50
C38	7.171	-0.002	3999	1668			
C40	7.765	-0.001	3896	1632	BUNKERC (C10-C38)	673300	85

Range Times: NW Diesel(3.034 - 5.277) NW Gas(1.730 - 3.034) NW M.Oil(5.277 - 7.223)
AK102(2.448 - 5.308) AK103(5.308 - 6.785) Jet A(2.448 - 4.196)

Surrogate	Area	Amount	%Rec
o-Terphenyl	688671	36.0	80.1
Triacontane	640523	40.2	89.3

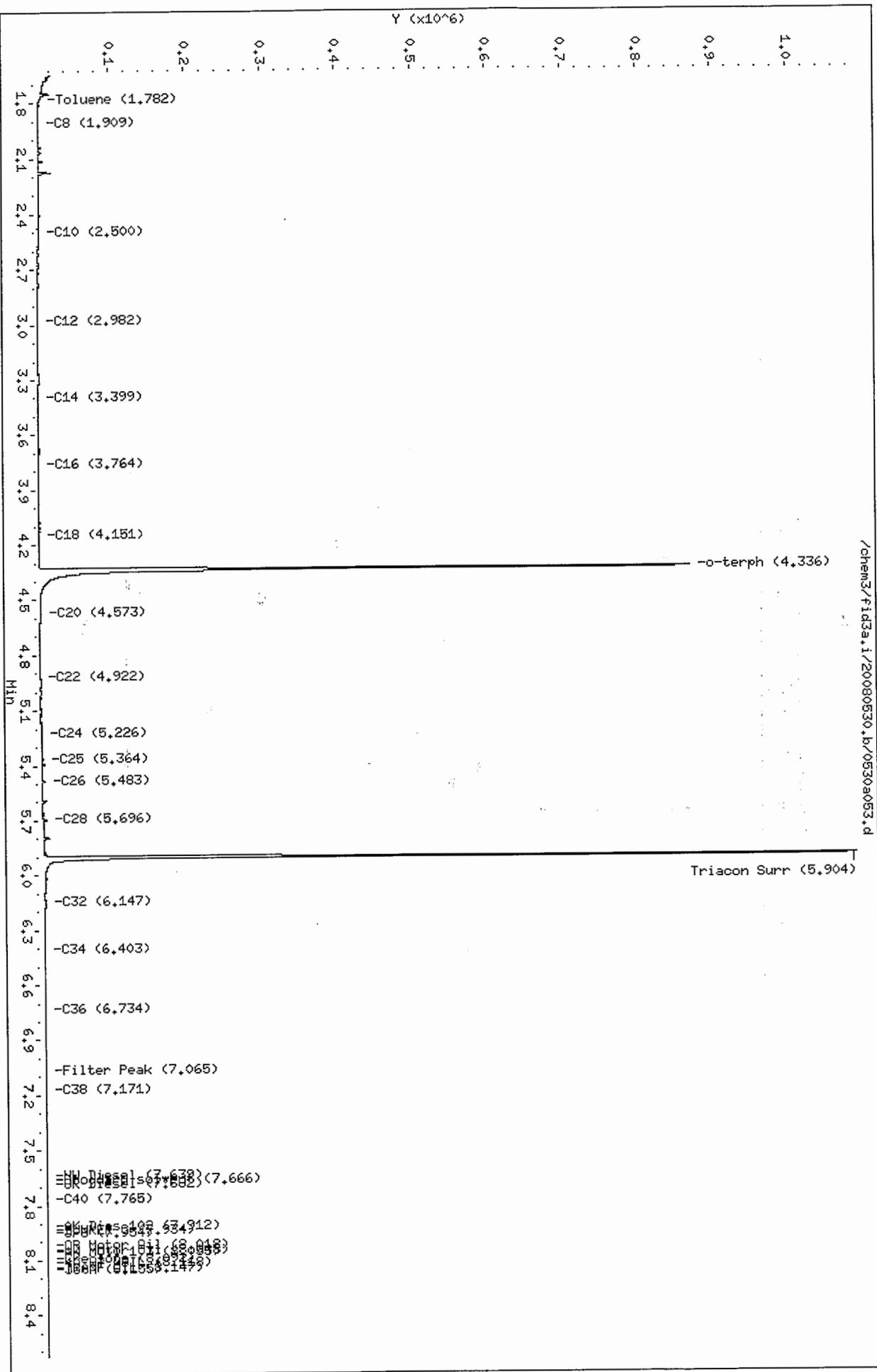
JF 05/31/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	51999.4	13-MAY-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

Data File: /chem3/fid3a.i/20080530.b/0530a053.d
Date: 30-MAY-2008 19:49
Client ID:
Sample Info: HY41MBS1

Column phase: RTX-1

Instrument: fid3a.i
Operator: ar
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080530.b/0530a052.d
Method: /chem3/fid3a.i/20080530.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ar
Report Date: 05/31/2008
Macro: FID:3A051308

ARI ID: MY41LCSS1
Client ID:
Injection: 30-MAY-2008 19:33
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.782	0.002	22925	13823	GAS (Tol-C12)	2994610	58
C8	1.909	0.002	20256	11604	DIESEL (C12-C24)	13046179	850
C10	2.499	0.001	279073	117255	M.OIL (C24-C38)	730047	65
C12	2.983	-0.001	461990	237552	AK-102 (C10-C25)	15504896	847
C14	3.406	0.004	144169	68594	AK-103 (C25-C36)	598964	67
C16	3.758	-0.003	666156	341565	OR.DIES (C10-C28)	15795262	978
C18	4.149	0.003	437404	300212	OR.MOIL (C28-C40)	551749	51
C20	4.569	0.000	330030	228954	JET-A (C10-C18)	11611743	670
C22	4.926	0.000	130877	99696			
C24	5.228	0.001	55445	52277	MSPIRIT (Tol-C12)	2994610	189
C25	5.358	0.000	33015	39747			
C26	5.479	0.000	20579	29511			
C28	5.698	-0.002	10704	13597			
C32	6.143	0.005	6349	8312			
C34	6.402	-0.002	5119	2957			
Filter Peak	7.068	0.000	4247	2460	JP-4 (Tol-C14)	6058399	533
C36	6.752	0.016	5063	5514	CREOSOT (C8-C22)	15462627	2647
C38	7.176	0.003	4276	852			
C40	7.765	-0.001	4081	813	BUNKERC (C10-C38)	16213142	2039

Range Times: NW Diesel(3.034 - 5.277) NW Gas(1.730 - 3.034) NW M.Oil(5.277 - 7.223)
AK102(2.448 - 5.308) AK103(5.308 - 6.785) Jet A(2.448 - 4.196)

Surrogate	Area	Amount	%Rec
o-Terphenyl	599602	31.4	69.7
Triacontane	556459	34.9	77.6

JK 05/31/08

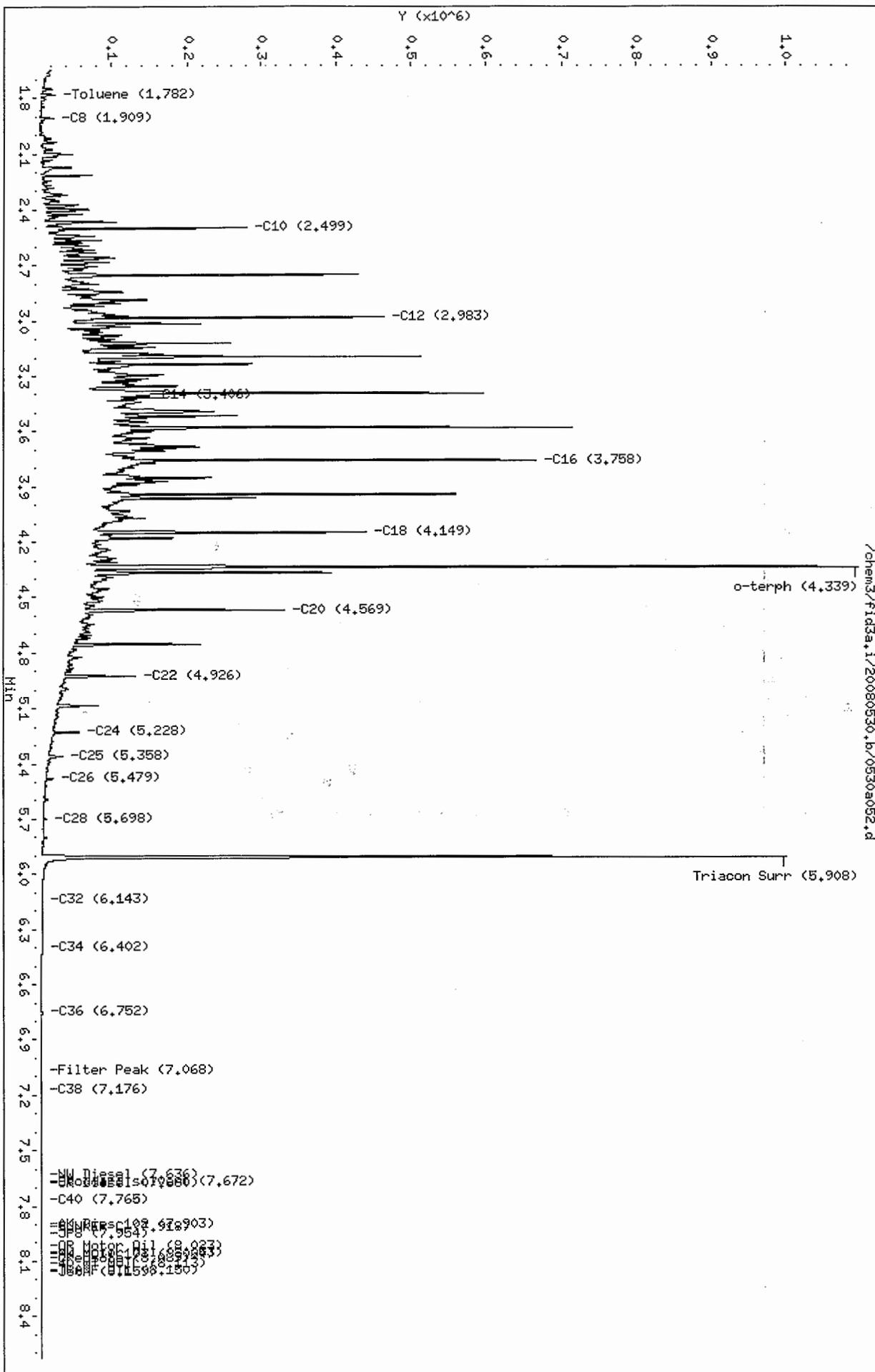
Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	51999.4	13-MAY-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

Data File: /chem3/fid3a.i/20080530.b/0530a052.d
Date: 30-MAY-2008 19:33
Client ID:
Sample Info: HY41LCSS1

Column phase: RTX-1

Instrument: fid3a.i

Operator: ar
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080530.b/0530a054.d
Method: /chem3/fid3a.i/20080530.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ar
Report Date: 05/31/2008
Macro: FID:3A051308

ARI ID: MY41A
Client ID:
Injection: 30-MAY-2008 20:04
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.783	0.003	7178	6146	GAS (Tol-C12)	250447	5
C8	1.907	0.001	2907	3713	DIESEL (C12-C24)	544871	35
C10	2.501	0.003	3423	2937	M.OIL (C24-C38)	1256023	112
C12	2.984	0.000	2251	1712	AK-102 (C10-C25)	665803	36
C14	3.391	-0.011	1531	1144	AK-103 (C25-C36)	1049007	117
C16	3.762	0.001	2157	897	OR.DIES (C10-C28)	998183	62
C18	4.150	0.004	3588	4271	OR.MOIL (C28-C40)	1098058	102
C20	4.579	0.009	5555	5991	JET-A (C10-C18)	250754	14
C22	4.929	0.002	6277	3308			
C24	5.228	0.001	9002	7641	MSPIRIT (Tol-C12)	250447	16
C25	5.360	0.002	15121	19062			
C26	5.479	0.000	13003	12590			
C28	5.697	-0.003	18591	19606			
C32	6.132	-0.006	15248	228733			
C34	6.407	0.004	10673	8090			
Filter Peak	7.071	0.004	6794	3788	JP-4 (Tol-C14)	295181	26
C36	6.735	0.000	8393	4950	CREOSOT (C8-C22)	607419	104
C38	7.171	-0.002	6654	3794			
C40	7.766	0.000	5333	2629	BUNKERC (C10-C38)	1898275	239

Range Times: NW Diesel(3.034 - 5.277) NW Gas(1.730 - 3.034) NW M.Oil(5.277 - 7.223)
AK102(2.448 - 5.308) AK103(5.308 - 6.785) Jet A(2.448 - 4.196)

Surrogate	Area	Amount	%Rec
o-Terphenyl	727866	38.1	84.6
Triacontane	697276	43.7	97.2

JR 05/31/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	51999.4	13-MAY-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

Data File: /chem3/fid3a.i/20080530.b/0530a054.d

Date: 30-May-2008 20:04

Client ID:

Sample Info: NY41A

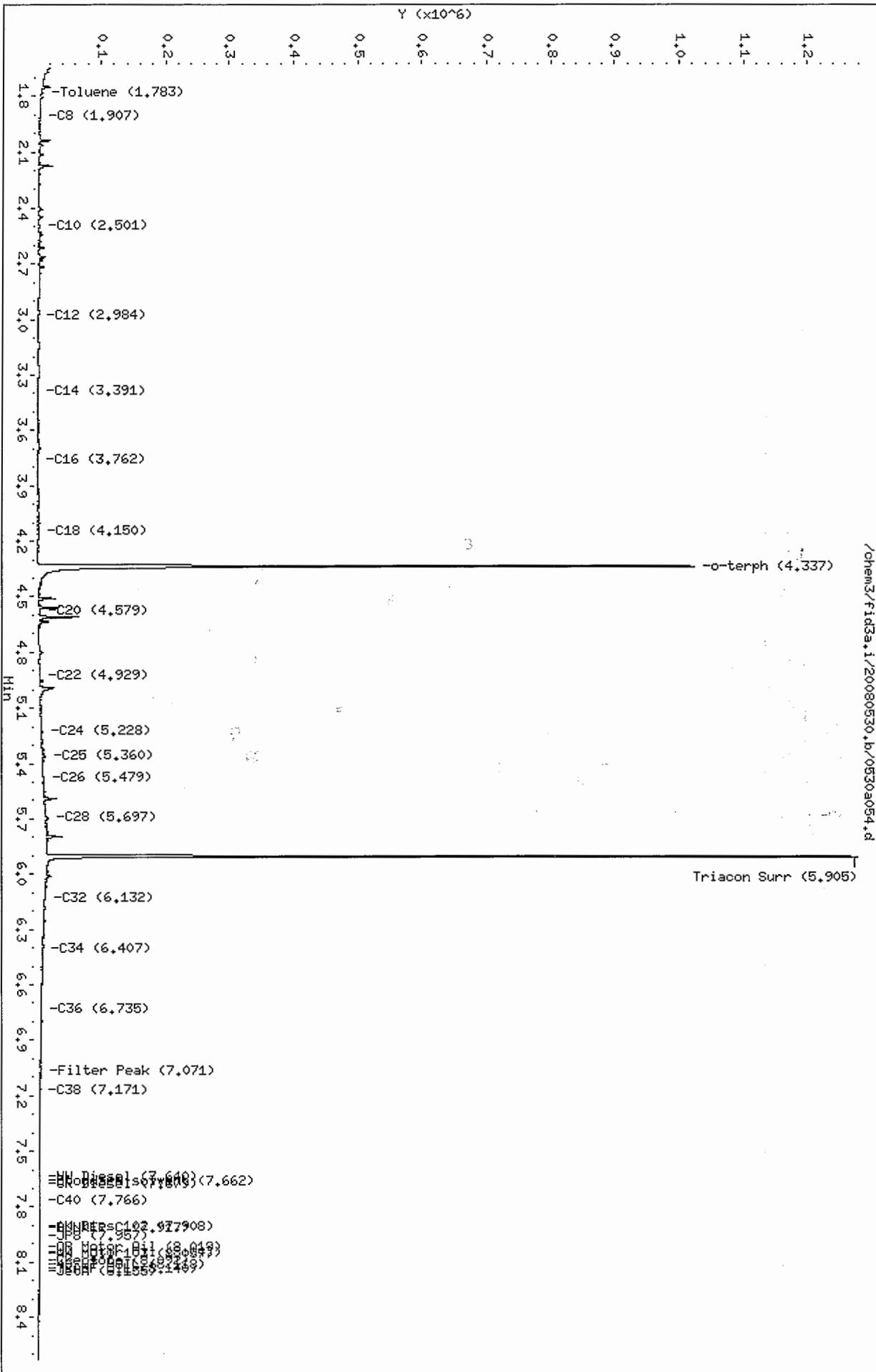
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Instrument: fid3a.i

Operator: ar

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080530.b/0530a055.d
Method: /chem3/fid3a.i/20080530.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ar
Report Date: 05/31/2008
Macro: FID:3A051308

ARI ID: MY41B
Client ID:
Injection: 30-MAY-2008 20:19
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.782	0.002	26405	17323	GAS (Tol-C12)	589289	11
C8	1.908	0.002	3590	3920	DIESEL (C12-C24)	21171389	1379
C10	2.500	0.002	5628	3546	M.OIL (C24-C38)	17612201	1566
C12	2.977	-0.008	4462	5496	AK-102 (C10-C25)	21782679	1190
C14	3.393	-0.009	5144	1908	AK-103 (C25-C36)	15441539	1717
C16	3.765	0.004	10933	9978	OR.DIES (C10-C28)	27133804	1680
C18	4.151	0.004	29555	29555	OR.MOIL (C28-C40)	13585511	1268
C20	4.563	-0.006	1135739	655638	JET-A (C10-C18)	1010311	58
C22	4.911	-0.016	155654	347283			
C24	5.225	-0.002	141610	33616	MSPIRIT (Tol-C12)	589289	37
C25	5.358	0.000	186639	133050			
C26	5.479	0.000	201032	159342			
C28	5.691	-0.010	253149	182509			
C32	6.134	-0.003	159173	56396			
C34	6.406	0.002	127246	101996			
Filter Peak	7.071	0.004	74693	36472	JP-4 (Tol-C14)	729834	64
C36	6.734	-0.002	88368	22748	CREOSOT (C8-C22)	6601128	1130
C38	7.176	0.003	63207	33995			
C40	7.766	0.000	35335	7031	BUNKERC (C10-C38)	39107134	4918

Range Times: NW Diesel(3.034 - 5.277) NW Gas(1.730 - 3.034) NW M.Oil(5.277 - 7.223)
AK102(2.448 - 5.308) AK103(5.308 - 6.785) Jet A(2.448 - 4.196)

Surrogate	Area	Amount	%Rec
o-Terphenyl	753440	39.4	87.6
Triacontane	620289	38.9	86.5

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	51999.4	13-MAY-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

JK 05/31/08

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Date: 30-MAY-2008 20:19

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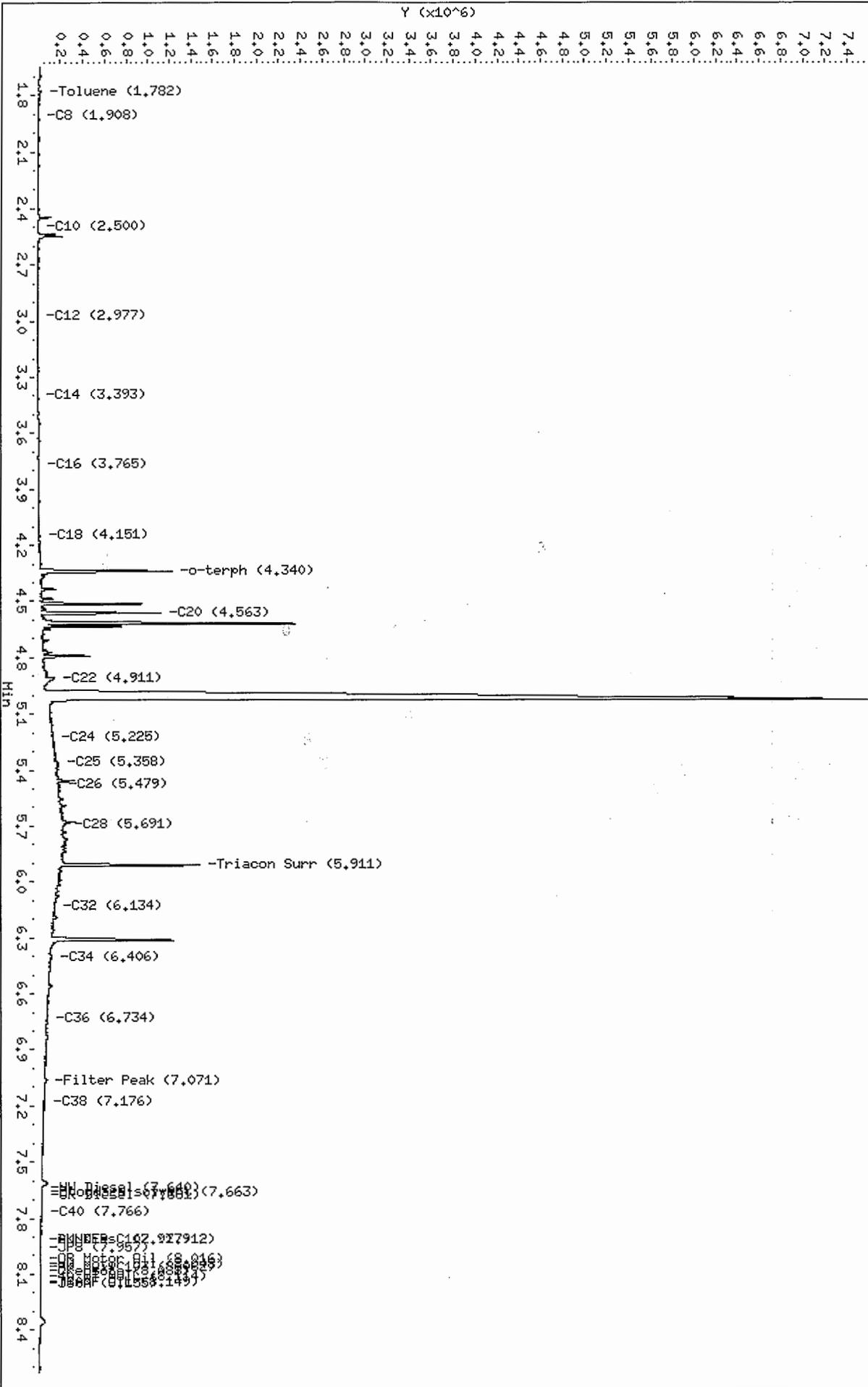
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Operator: ar

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Column phase: RTX-1

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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080530.b/0530a056.d
Method: /chem3/fid3a.i/20080530.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ar
Report Date: 05/31/2008
Macro: FID:3A051308

ARI ID: MY41C
Client ID:
Injection: 30-MAY-2008 20:35
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.782	0.002	65607	36405	GAS (Tol-C12)	657981	13
C8	1.908	0.002	9566	6749	DIESEL (C12-C24)	6029355	393
C10	2.499	0.001	12500	6982	M.OIL (C24-C38)	15668493	1393
C12	2.981	-0.003	8896	11991	AK-102 (C10-C25)	6649553	363
C14	3.396	-0.006	5062	1854	AK-103 (C25-C36)	13982244	1555
C16	3.763	0.002	16573	16036	OR.DIES (C10-C28)	11712536	725
C18	4.147	0.001	41475	53864	OR.MOIL (C28-C40)	11506396	1074
C20	4.558	-0.011	204828	172915	JET-A (C10-C18)	1152156	66
C22	4.926	0.000	106452	111761			
C24	5.225	-0.002	153080	130005	MSPIRIT (Tol-C12)	657981	42
C25	5.356	-0.001	192221	161217			
C26	5.479	0.000	192970	210531			
C28	5.696	-0.004	254427	122743			
C32	6.135	-0.003	165540	93961			
C34	6.403	0.000	113282	112409			
Filter Peak	7.069	0.002	53896	13694	JP-4 (Tol-C14)	789606	69
C36	6.735	0.000	71095	19327	CREOSOT (C8-C22)	4150758	711
C38	7.171	-0.002	44575	13183			
C40	7.762	-0.004	24787	16482	BUNKERC (C10-C38)	22048958	2773

Range Times: NW Diesel(3.034 - 5.277) NW Gas(1.730 - 3.034) NW M.Oil(5.277 - 7.223)
AK102(2.448 - 5.308) AK103(5.308 - 6.785) Jet A(2.448 - 4.196)

Surrogate	Area	Amount	%Rec
o-Terphenyl	577982	30.2	67.2
Triacontane	522036	32.7	72.8

JK 05/31/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	51999.4	13-MAY-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

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Client ID:

Sample Info: NY41C

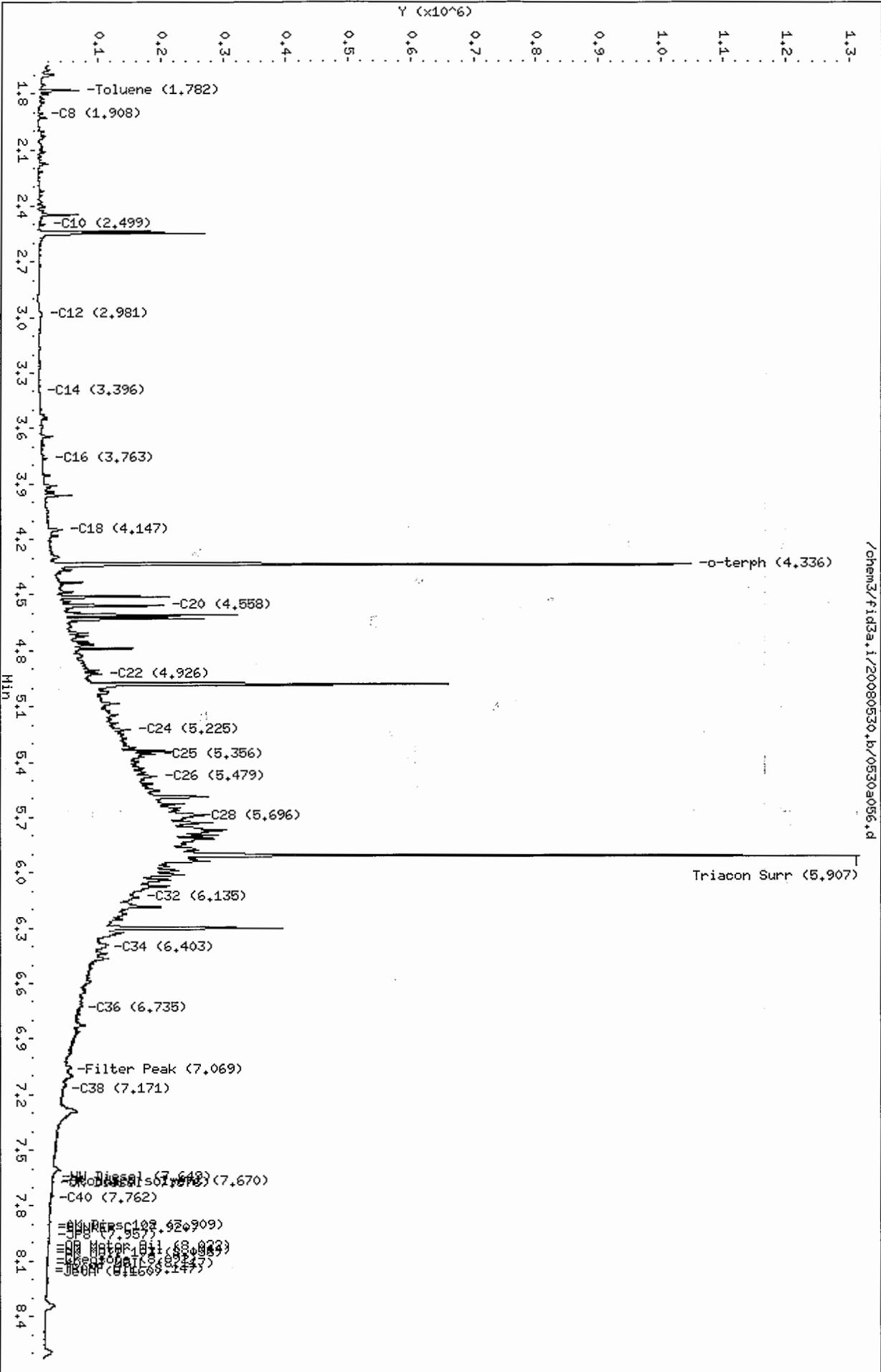
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Operator: ar

Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080530.b/0530a064.d
Method: /chem3/fid3a.i/20080530.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ar
Report Date: 05/31/2008
Macro: FID:3A051308

ARI ID: MY41E
Client ID:
Injection: 30-MAY-2008 22:37
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.781	0.001	335898	183173	GAS (Tol-C12)	3756346	72
C8	1.907	0.001	4535	4787	DIESEL (C12-C24)	23907828	1557
C10	2.487	-0.011	114878	54598	M.OIL (C24-C38)	21050213	1872
C12	2.993	0.009	5463	4865	AK-102 (C10-C25)	27683393	1513
C14	3.406	0.004	8051	8075	AK-103 (C25-C36)	18883272	2100
C16	3.762	0.002	8926	10261	OR.DIES (C10-C28)	35199386	2179
C18	4.148	0.002	46510	45132	OR.MOIL (C28-C40)	14385366	1343
C20	4.567	-0.002	2392928	2076299	JET-A (C10-C18)	4025035	232
C22	4.928	0.001	101627	124679			
C24	5.227	0.000	173703	201339	MSPIRIT (Tol-C12)	3756346	237
C25	5.358	0.001	276630	158403			
C26	5.479	0.000	287674	131875			
C28	5.697	-0.003	325257	268919			
C32	6.138	0.000	209725	97750			
C34	6.404	0.001	160014	53615			
Filter Peak	7.058	-0.010	90255	107269	JP-4 (Tol-C14)	3913598	344
C36	6.735	0.000	88356	14030	CREOSOT (C8-C22)	24937443	4269
C38	7.174	0.001	51006	18052			
C40	7.761	-0.005	25615	17098	BUNKERC (C10-C38)	48191580	6060

Range Times: NW Diesel(3.034 - 5.277) NW Gas(1.730 - 3.034) NW M.Oil(5.277 - 7.223)
AK102(2.448 - 5.308) AK103(5.308 - 6.785) Jet A(2.448 - 4.196)

Surrogate	Area	Amount	%Rec
o-Terphenyl	569096	29.8	66.2
Triacontane	526773	33.0	73.4

AK 05/31/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	51999.4	13-MAY-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

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Date: 30-May-2008 22:37

Client ID:

Sample Info: HY41E

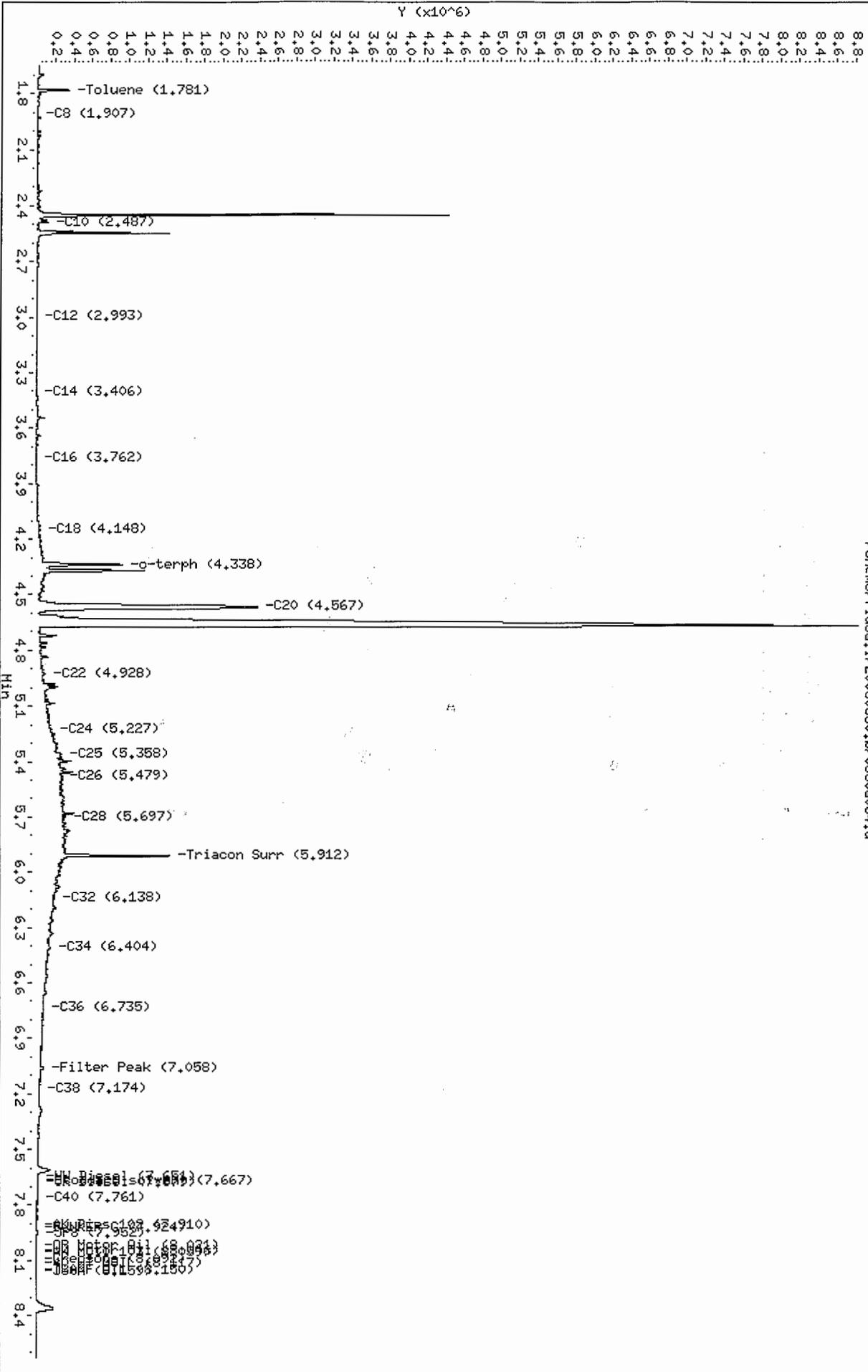
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Instrument: fid3a.i

Operator: ar

Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080531.b/0531a011.d
Method: /chem3/fid3a.i/20080531.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ar
Report Date: 05/31/2008
Macro: FID:3A051308

ARI ID: MY41F
Client ID:
Injection: 31-MAY-2008 12:28
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.781	-0.003	6692	5654	GAS (Tol-C12)	212087	4
C8	1.907	-0.003	2623	3400	DIESEL (C12-C24)	318156	21
C10	2.500	0.001	3301	2037	M.OIL (C24-C38)	932172	83
C12	2.989	0.002	2095	458	AK-102 (C10-C25)	418142	23
C14	3.403	-0.003	1492	1419	AK-103 (C25-C36)	794393	88
C16	3.762	-0.001	1841	292	OR.DIES (C10-C28)	617668	38
C18	4.151	0.002	2715	2856	OR.MOIL (C28-C40)	874863	82
C20	4.560	-0.013	4114	4705	JET-A (C10-C18)	234838	14
C22	4.927	-0.001	3313	2577			
C24	5.231	0.004	5142	6185	MSPIRIT (Tol-C12)	212087	13
C25	5.359	0.002	18158	16013			
C26	5.477	0.000	8178	10387			
C28	5.693	-0.003	14077	14928			
C32	6.129	-0.003	12292	14512			
C34	6.393	-0.003	7127	14704			
Filter Peak	7.070	0.002	5116	2849	JP-4 (Tol-C14)	261205	23
C36	6.730	0.001	5630	1783	CREOSOT (C8-C22)	439650	75
C38	7.168	0.001	4992	1487			
C40	7.760	-0.003	4397	1313	BUNKERC (C10-C38)	1342398	169

Range Times: NW Diesel(3.037 - 5.277) NW Gas(1.734 - 3.037) NW M.Oil(5.277 - 7.217)
AK102(2.449 - 5.307) AK103(5.307 - 6.779) Jet A(2.449 - 4.199)

Surrogate	Area	Amount	%Rec
o-Terphenyl	599151	31.3	69.7
Triacontane	570299	35.8	79.5

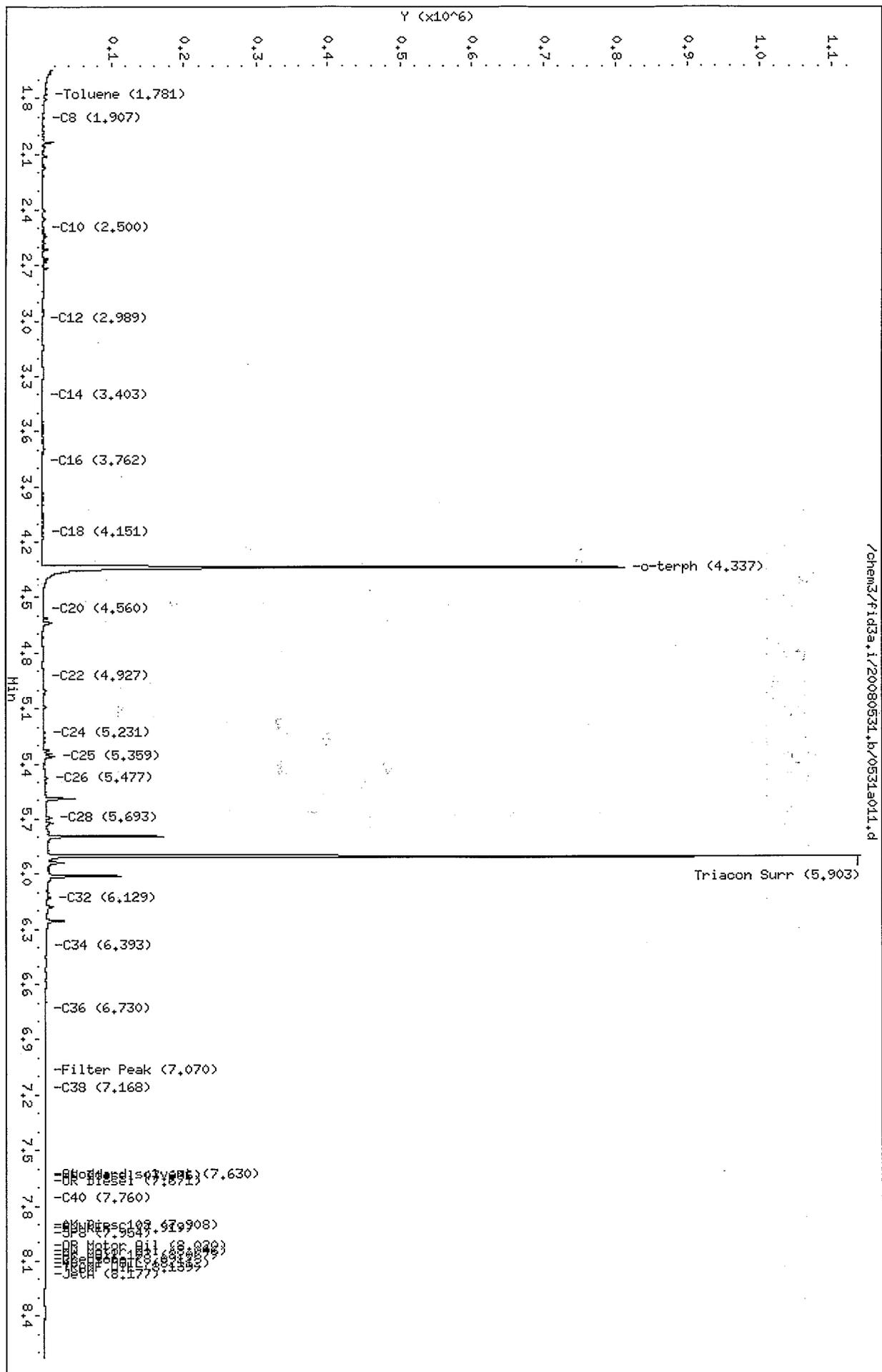
je 05/31/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	51999.4	13-MAY-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

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Client ID:
Sample Info: HY41F

Column phase: RTX-1

Instrument: fid3a.i
Operator: ar
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080530.b/0530a066.d
Method: /chem3/fid3a.i/20080530.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ar
Report Date: 05/31/2008
Macro: FID:3A051308

ARI ID: MY41G
Client ID:
Injection: 30-MAY-2008 23:08
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.783	0.003	18275	12853	GAS (Tol-C12)	213078	4
C8	1.908	0.002	2584	3329	DIESEL (C12-C24)	233695	15
C10	2.501	0.003	2904	2930	M.OIL (C24-C38)	637059	57
C12	2.995	0.011	1941	270	AK-102 (C10-C25)	327117	18
C14	3.405	0.003	1232	1122	AK-103 (C25-C36)	517356	58
C16	3.766	0.005	1497	326	OR.DIES (C10-C28)	425559	26
C18	4.152	0.005	2078	2125	OR.MOIL (C28-C40)	670435	63
C20	4.570	0.000	2531	1147	JET-A (C10-C18)	202154	12
C22	4.932	0.005	2334	1989			
C24	5.225	-0.002	2568	1426	MSPIRIT (Tol-C12)	213078	13
C25	5.364	0.006	4363	6627			
C26	5.482	0.003	4312	5912			
C28	5.694	-0.006	6655	8977			
C32	6.135	-0.002	6371	13820			
C34	6.406	0.002	5233	2080			
Filter Peak	7.069	0.002	4350	3027	JP-4 (Tol-C14)	255975	23
C36	6.740	0.004	5104	5318	CREOSOT (C8-C22)	375513	64
C38	7.169	-0.004	4279	2469			
C40	7.763	-0.003	3830	840	BUNKERC (C10-C38)	957334	120

Range Times: NW Diesel(3.034 - 5.277) NW Gas(1.730 - 3.034) NW M.Oil(5.277 - 7.223)
AK102(2.448 - 5.308) AK103(5.308 - 6.785) Jet A(2.448 - 4.196)

Surrogate	Area	Amount	%Rec
o-Terphenyl	567729	29.7	66.0
Triacontane	526121	33.0	73.3

JK 05/31/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	51999.4	13-MAY-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

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Date: 30-MAY-2008 23:08

Client ID:

Sample Info: HY41G

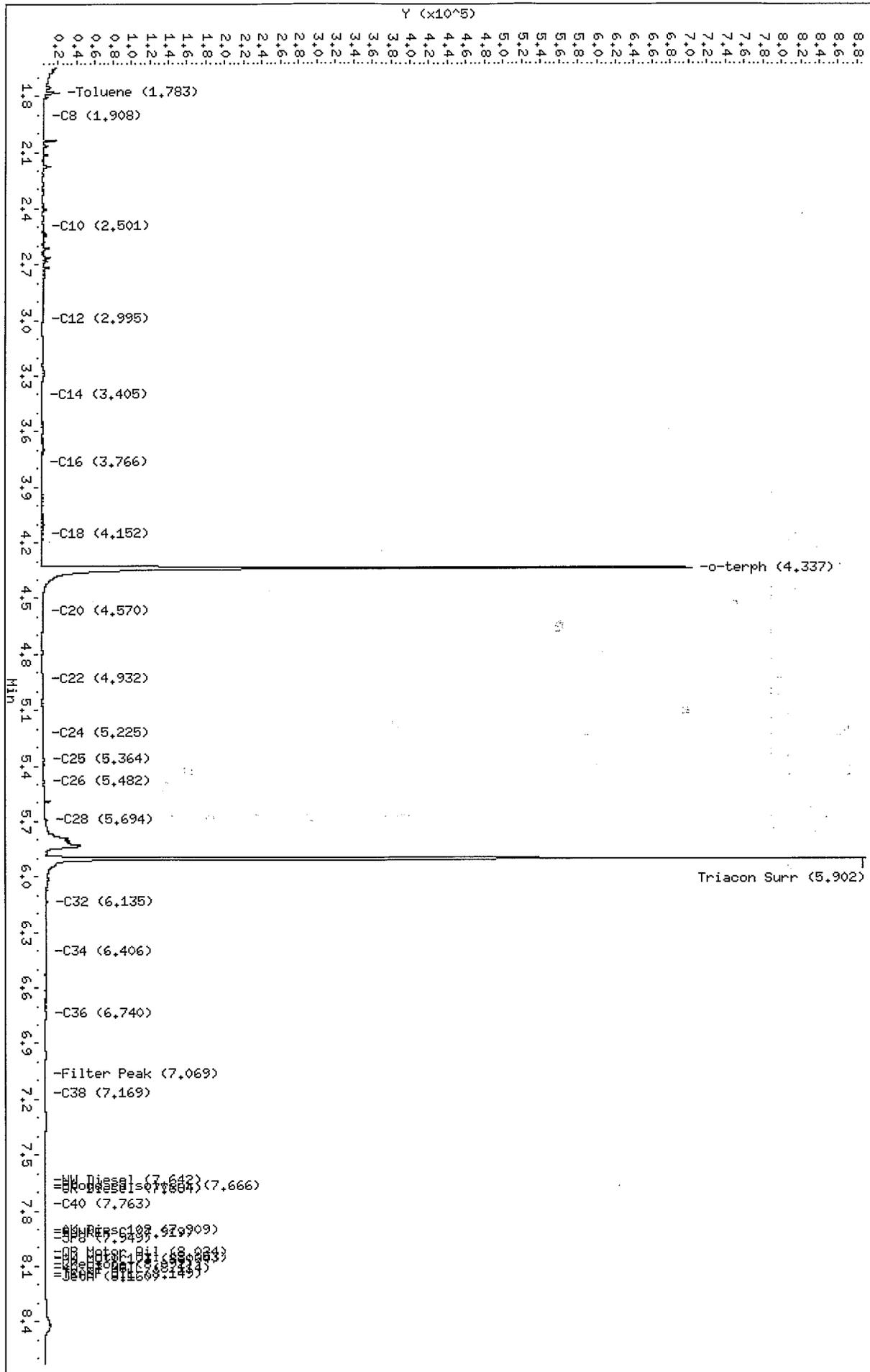
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Operator: ar

Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080602.b/0602a008.d
Method: /chem3/fid3a.i/20080602.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ar
Report Date: 06/03/2008
Macro: FID:3A051308

ARI ID: MY41MBS2
Client ID:
Injection: 02-JUN-2008 19:13
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.805	0.027	2971	3435	GAS (Tol-C12)	248309	5
C8	1.897	-0.008	2413	3054	DIESEL (C12-C24)	316242	21
C10	2.499	0.001	2592	1846	M.OIL (C24-C38)	723641	64
C12	2.979	-0.005	6886	7636	AK-102 (C10-C25)	410694	22
C14	3.410	0.009	2176	729	AK-103 (C25-C36)	568829	63
C16	3.760	0.000	2851	1609	OR.DIES (C10-C28)	551949	34
C18	4.149	0.003	2152	2178	OR.MOIL (C28-C40)	750513	70
C20	4.562	-0.008	2402	1852	JET-A (C10-C18)	263764	15
C22	4.929	0.003	2545	1495			
C24	5.232	0.007	3804	5077	MSPIRIT (Tol-C12)	248309	16
C25	5.357	0.001	4437	2972			
C26	5.473	-0.006	4326	1118			
C28	5.701	0.001	7816	8331			
C32	6.143	0.005	9127	17554			
C34	6.402	-0.002	7406	2068			
Filter Peak	7.072	0.004	6409	2411	JP-4 (Tol-C14)	318355	28
C36	6.742	0.007	6759	4259	CREOSOT (C8-C22)	477308	82
C38	7.171	-0.002	5737	5424			
C40	7.761	-0.004	4912	6755	BUNKERC (C10-C38)	1128107	142

Range Times: NW Diesel(3.034 - 5.275) NW Gas(1.728 - 3.034) NW M.Oil(5.275 - 7.223)
AK102(2.448 - 5.307) AK103(5.307 - 6.785) Jet A(2.448 - 4.196)

Surrogate	Area	Amount	%Rec
o-Terphenyl	781455	40.9	90.9
Triacontane	721933	45.3	100.6

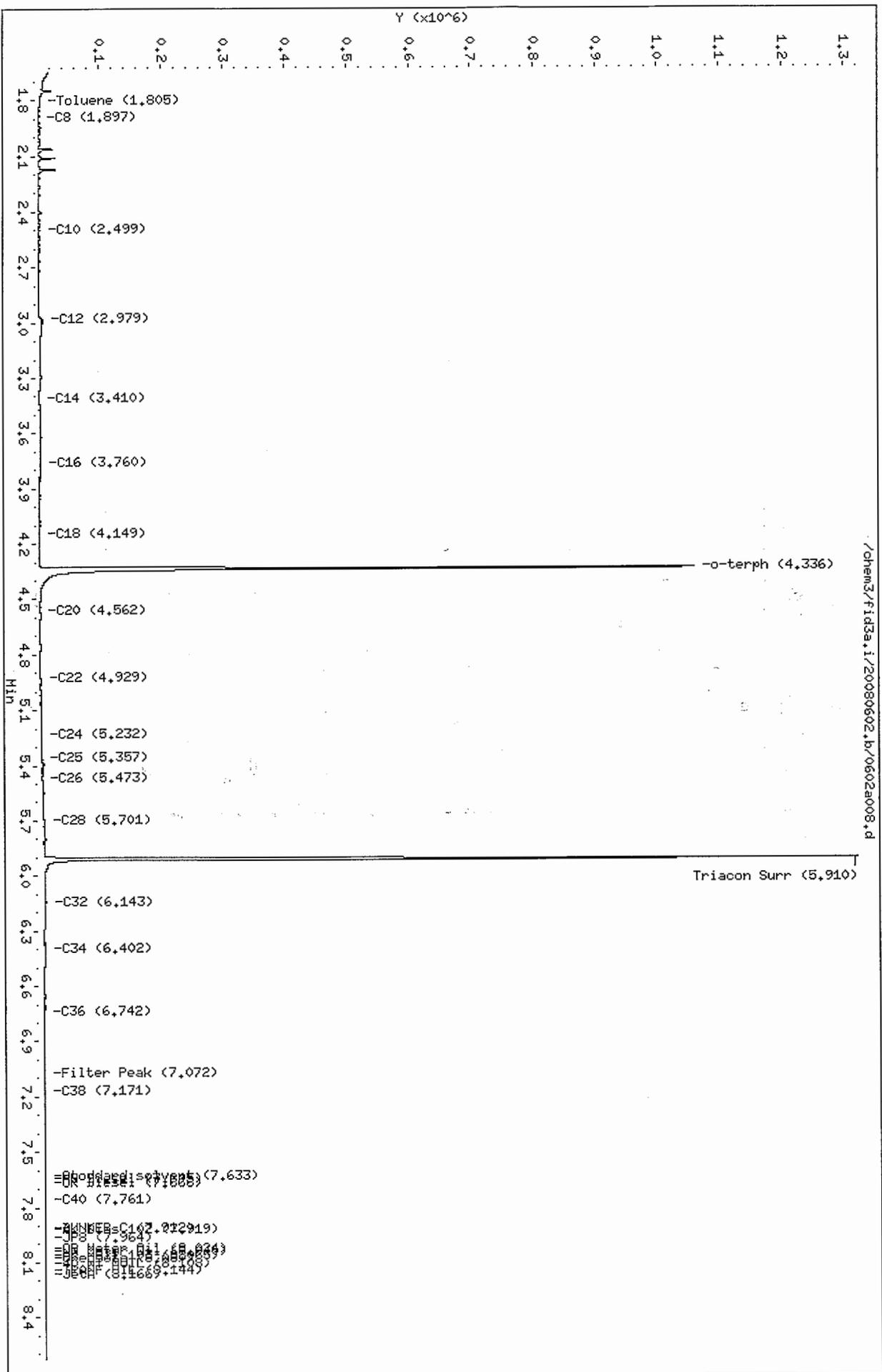
MO 6/3/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	51999.4	13-MAY-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

Data File: /chem3/fid3a.i/20080602.b/0602a008.d
Date : 02-JUN-2008 19:13
Client ID:
Sample Info: HY41HBS2

Column phase: RTX-1

Instrument: fid3a.i
Operator: ar
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080602.b/0602a009.d
Method: /chem3/fid3a.i/20080602.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ar
Report Date: 06/03/2008
Macro: FID:3A051308

ARI ID: MY41LCSS2
Client ID:
Injection: 02-JUN-2008 19:29
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.780	0.002	24449	15059	GAS (Tol-C12)	3842725	74
C8	1.906	0.001	23732	13607	DIESEL (C12-C24)	18280275	1190
C10	2.498	0.001	352108	148775	M.OIL (C24-C38)	910934	81
C12	2.984	-0.001	627722	298606	AK-102 (C10-C25)	21433820	1171
C14	3.407	0.006	194666	95897	AK-103 (C25-C36)	762627	85
C16	3.759	-0.002	876094	453370	OR.DIES (C10-C28)	21824741	1351
C18	4.151	0.005	544476	435540	OR.MOIL (C28-C40)	656775	61
C20	4.570	0.000	437936	328034	JET-A (C10-C18)	15863637	915
C22	4.926	0.000	174268	143292			
C24	5.226	0.001	77129	55909	MSPRIT (Tol-C12)	3842725	243
C25	5.357	0.000	45744	55959			
C26	5.479	0.000	27557	28253			
C28	5.699	-0.001	12832	18213			
C32	6.140	0.002	8156	14373			
C34	6.412	0.009	6086	5182			
Filter Peak	7.069	0.000	4900	3323	JP-4 (Tol-C14)	7931207	698
C36	6.723	-0.012	5171	1648	CREOSOT (C8-C22)	21350069	3655
C38	7.171	-0.002	5011	2501			
C40	7.771	0.006	5128	5513	BUNKERC (C10-C38)	22331339	2808

Range Times: NW Diesel(3.034 - 5.275) NW Gas(1.728 - 3.034) NW M.Oil(5.275 - 7.223)
AK102(2.448 - 5.307) AK103(5.307 - 6.785) Jet A(2.448 - 4.196)

Surrogate	Area	Amount	%Rec
o-Terphenyl	796960	41.7	92.7
Triacontane	721714	45.3	100.6

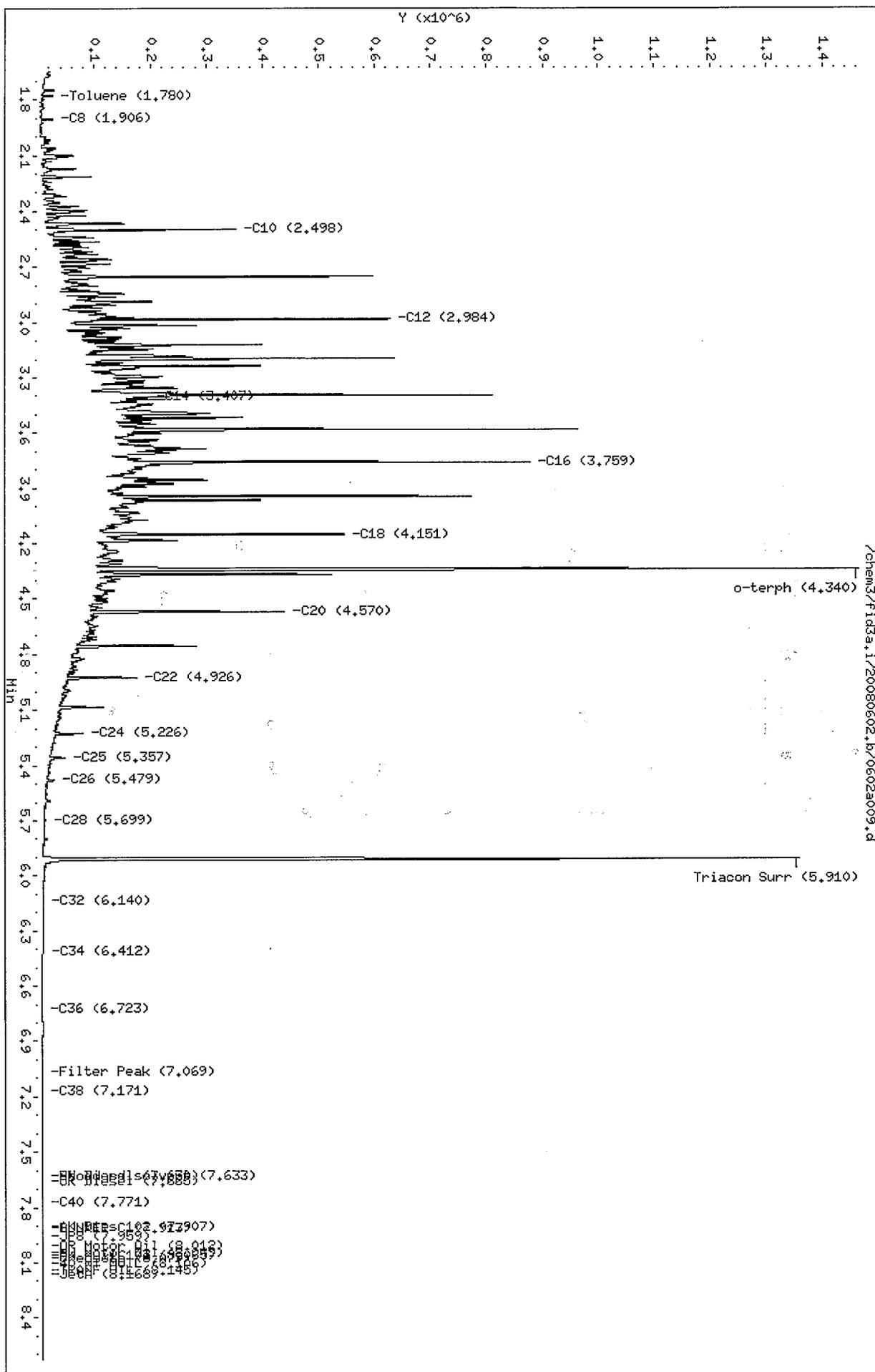
MD. 6/3/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	51999.4	13-MAY-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008

Data File: /chem3/fid3a.i/20080602.b/0602a009.d
Date: 02-JUN-2008 19:29
Client ID:
Sample Info: HY4ILCSS2

Column phase: RTX-1

Instrument: fid3a.i
Operator: ar
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20080602.b/0602a010.d
Method: /chem3/fid3a.i/20080602.b/ftphfid3a.m
Instrument: fid3a.i
Operator: ar
Report Date: 06/03/2008
Macro: FID:3A051308

ARI ID: MY41D2
Client ID:
Injection: 02-JUN-2008 19:44
Dilution Factor: 1

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.784	0.006	19793	12715	GAS (Tol-C12)	2276712	44
C8	1.906	0.001	3864	3447	DIESEL (C12-C24)	16291665	1061
C10	2.486	-0.012	71965	37448	M.OIL (C24-C38)	18653181	1659
C12	2.993	0.008	7564	7590	AK-102 (C10-C25)	18440142	1008
C14	3.407	0.006	8826	7316	AK-103 (C25-C36)	17028042	1894
C16	3.764	0.003	7811	7973	OR.DIES (C10-C28)	25029704	1550
C18	4.151	0.005	53130	46504	OR.MOIL (C28-C40)	12664615	1182
C20	4.578	0.009	6454055	7332525	JET-A (C10-C18)	2590428	149
C22	4.926	0.000	108183	107791			
C24	5.228	0.002	165276	125972	MSPIRIT (Tol-C12)	2276712	144
C25	5.360	0.004	238339	205084			
C26	5.479	0.000	245568	141690			
C28	5.700	0.000	324771	282175			
C32	6.137	-0.001	181234	32289			
C34	6.403	-0.001	129455	35402			
Filter Peak	7.072	0.004	76813	121682	JP-4 (Tol-C14)	2426059	214
C36	6.733	-0.002	77723	32957	CREOSOT (C8-C22)	16092995	2755
C38	7.171	-0.002	38895	25935			
C40	7.765	0.000	17955	8250	BUNKERC (C10-C38)	36775850	4625

Range Times: NW Diesel(3.034 - 5.275) NW Gas(1.728 - 3.034) NW M.Oil(5.275 - 7.223)
AK102(2.448 - 5.307) AK103(5.307 - 6.785) Jet A(2.448 - 4.196)

Surrogate	Area	Amount	%Rec
o-Terphenyl	512303	26.8	59.6
Triacotane	504454	31.6	70.3

mo. 6/3/08

Analyte	RF	Curve Date
o-Terph Surr	19114.4	12-APR-2008
Triacon Surr	15941.6	24-APR-2008
Gas	51999.4	13-MAY-2008
Diesel	15355.9	12-APR-2008
Motor Oil	11245.0	24-APR-2008
AK102	18300.0	12-APR-2008
AK103	8992.8	01-APR-2008
JP4	11362.0	05-FEB-2007
JetA	17329.6	08-APR-2008
Min Spirit	15825.3	15-APR-2005
OR Diesel	16151.0	
OR M.Oil	10714.0	
Bunker C	7951.9	01-APR-2008
Creosote	5841.7	26-MAR-2008



Analytical Resources, Incorporated
Analytical Chemists and Consultants

5 June 2008

Kurt Easthouse
Parametrix, Inc.
411 108th Avenue NE
Suite 1800
Bellevue, WA 98004-5571

**RE: Project: Yakima-Former Boise Cascade
ARI Job No. MY43**

Dear Kurt:

Please find enclosed a copy of the original Chain of Custody (COC) record and the final results for the sample from the project referenced above. Analytical Resources, Inc. received thirteen soil samples on May 21, 2008. The samples were received intact and there were no discrepancies in the paperwork. The samples were placed on hold as instructed. One sample was analyzed for SVOAs as requested on 5/29/08.

There were no analytical complications noted.

As always, a copy of these reports and all raw data will remain on file at ARI. If you have questions, or require further information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

A handwritten signature in black ink that reads "Mark D. Harris".

Mark D. Harris
Project Manager
206-695-6210
<markh@arilabs.com>

Enclosures

cc: File MY43

MDH/mdh

RO1-55

Standard



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: **MX54** Turn-around Requested: Page: **1** of **2**

ARI Client Company: **PARAMETRIX** Phone: **Y** Is Present? **Y**

Client Contact: **KURT PASTORUS** No. of Coolers: **1** Cooler Temps: **0, 8°**

Client Project Name: **YAKIMA - FORMER BOISE CASCADE**

Client Project #: **ADAM ROMY**

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested		Notes/Comments
					Requested	Received	
TP-18-5	5/19/08	1130	SOIL	1			24-48 = TPH
TP-18-7A		1155					Regular = SVOC
TP-18-7B		1200					HOLD
TP-19-3		1210					HOLD
TP-20-10		1240					HOLD
TP-21-13		1300					HOLD - TEST
TP-22-13		1332					HOLD - TEST
TP-23-7		1438					HOLD - TEST
TP-23-11		1444					HOLD - TEST
TP-24-4		1502					HOLD - TEST
Comments/Special Instructions							
Requested by: Adam Romy (Signature)				Requested by: Bob Angler (Signature)			
Printed Name: Adam Romy				Printed Name: Bob Angler			
Company: Parametrix				Company: ARI			
Date & Time: 5-20-08 1100				Date & Time: 5/21/08 1000			

Limit of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

ARI Data Reporting Qualifiers

Effective 11/22/04

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- NR Spiked compound recovery is not reported due to chromatographic interference
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the limit
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: MB-053008
METHOD BLANK

Lab Sample ID: MB-053008
LIMS ID: 08-11221
Matrix: Soil
Data Release Authorized: 
Reported: 06/04/08

QC Report No: MY43-Parametrix, Inc.
Project: Yakima - Former Boise Cascade
NA
Date Sampled: NA
Date Received: NA

Date Extracted: 05/30/08
Date Analyzed: 06/03/08 14:14
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	67	< 67 U
111-44-4	Bis-(2-Chloroethyl) Ether	67	< 67 U
95-57-8	2-Chlorophenol	67	< 67 U
541-73-1	1,3-Dichlorobenzene	67	< 67 U
106-46-7	1,4-Dichlorobenzene	67	< 67 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	67	< 67 U
95-48-7	2-Methylphenol	67	< 67 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	67	< 67 U
106-44-5	4-Methylphenol	67	< 67 U
621-64-7	N-Nitroso-Di-N-Propylamine	330	< 330 U
67-72-1	Hexachloroethane	67	< 67 U
98-95-3	Nitrobenzene	67	< 67 U
78-59-1	Isophorone	67	< 67 U
88-75-5	2-Nitrophenol	330	< 330 U
105-67-9	2,4-Dimethylphenol	67	< 67 U
65-85-0	Benzoic Acid	670	< 670 U
111-91-1	bis(2-Chloroethoxy) Methane	67	< 67 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	67	< 67 U
91-20-3	Naphthalene	67	< 67 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	67	< 67 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	67	< 67 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	67	< 67 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	67	< 67 U
51-28-5	2,4-Dinitrophenol	670	< 670 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	67	< 67 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: MB-053008
METHOD BLANK

Lab Sample ID: MB-053008
LIMS ID: 08-11221
Matrix: Soil
Date Analyzed: 06/03/08 14:14

QC Report No: MY43-Parametrix, Inc.
Project: Yakima - Former Boise Cascade
NA

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	67	< 67 U
7005-72-3	4-Chlorophenyl-phenylether	67	< 67 U
86-73-7	Fluorene	67	< 67 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670	< 670 U
86-30-6	N-Nitrosodiphenylamine	67	< 67 U
101-55-3	4-Bromophenyl-phenylether	67	< 67 U
118-74-1	Hexachlorobenzene	67	< 67 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	67	< 67 U
86-74-8	Carbazole	67	< 67 U
120-12-7	Anthracene	67	< 67 U
84-74-2	Di-n-Butylphthalate	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
85-68-7	Butylbenzylphthalate	67	< 67 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	67	< 67 U
117-81-7	bis(2-Ethylhexyl)phthalate	67	< 67 U
218-01-9	Chrysene	67	< 67 U
117-84-0	Di-n-Octyl phthalate	67	< 67 U
205-99-2	Benzo(b)fluoranthene	67	< 67 U
207-08-9	Benzo(k)fluoranthene	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U
90-12-0	1-Methylnaphthalene	67	< 67 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	50.0%	2-Fluorobiphenyl	54.8%
d14-p-Terphenyl	78.8%	d4-1,2-Dichlorobenzene	50.0%
d5-Phenol	52.0%	2-Fluorophenol	48.5%
2,4,6-Tribromophenol	60.8%	d4-2-Chlorophenol	53.3%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: TP-21-13
SAMPLE

Lab Sample ID: MY43A
LIMS ID: 08-11221
Matrix: Soil
Data Release Authorized: 
Reported: 06/04/08

QC Report No: MY43-Parametrix, Inc.
Project: Yakima - Former Boise Cascade
NA
Date Sampled: 05/19/08
Date Received: 05/21/08

Date Extracted: 05/30/08
Date Analyzed: 06/03/08 21:12
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.80 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 35.1%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	78
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	150
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: TP-21-13
SAMPLE

Lab Sample ID: MY43A
LIMS ID: 08-11221
Matrix: Soil
Date Analyzed: 06/03/08 21:12

QC Report No: MY43-Parametrix, Inc.
Project: Yakima - Former Boise Cascade
NA

CAS Number	Analyte	RL	Result
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	82
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	97
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	76
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
205-99-2	Benzo(b)fluoranthene	64	< 64 U
207-08-9	Benzo(k)fluoranthene	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U
90-12-0	1-Methylnaphthalene	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.0%	2-Fluorobiphenyl	73.2%
d14-p-Terphenyl	66.4%	d4-1,2-Dichlorobenzene	60.8%
d5-Phenol	57.6%	2-Fluorophenol	58.1%
2,4,6-Tribromophenol	82.4%	d4-2-Chlorophenol	60.3%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: LCS-053008
LCS/LCSD

Lab Sample ID: LCS-053008
LIMS ID: 08-11221
Matrix: Soil
Data Release Authorized:
Reported: 06/04/08

QC Report No: MY43-Parametrix, Inc.
Project: Yakima - Former Boise Cascade
Date Sampled: 05/19/08
Date Received: 05/21/08

Date Extracted LCS/LCSD: 05/30/08

Sample Amount LCS: 7.50 g
LCSD: 7.50 g

Date Analyzed LCS: 06/03/08 14:49
LCSD: 06/03/08 15:23

Final Extract Volume LCS: 0.5 mL
LCSD: 0.5 mL

Instrument/Analyst LCS: NT4/LJR
LCSD: NT4/LJR

Dilution Factor LCS: 1.00
LCSD: 1.00

GPC Cleanup: NO

Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	921	1670	55.1%	888	1670	53.2%	3.6%
Bis-(2-Chloroethyl) Ether	923	1670	55.3%	853	1670	51.1%	7.9%
2-Chlorophenol	948	1670	56.8%	925	1670	55.4%	2.5%
1,3-Dichlorobenzene	862	1670	51.6%	796	1670	47.7%	8.0%
1,4-Dichlorobenzene	873	1670	52.3%	829	1670	49.6%	5.2%
Benzyl Alcohol	1170	3330	35.1%	1060	3330	31.8%	9.9%
1,2-Dichlorobenzene	926	1670	55.4%	865	1670	51.8%	6.8%
2-Methylphenol	916	1670	54.9%	929	1670	55.6%	1.4%
2,2'-Oxybis(1-Chloropropane)	611	1670	36.6%	579	1670	34.7%	5.4%
4-Methylphenol	1970	3330	59.2%	1890	3330	56.8%	4.1%
N-Nitroso-Di-N-Propylamine	909	1670	54.4%	859	1670	51.4%	5.7%
Hexachloroethane	839	1670	50.2%	791	1670	47.4%	5.9%
Nitrobenzene	883	1670	52.9%	855	1670	51.2%	3.2%
Isophorone	1060	1670	63.5%	1030	1670	61.7%	2.9%
2-Nitrophenol	1050	1670	62.9%	1010	1670	60.5%	3.9%
2,4-Dimethylphenol	987	1670	59.1%	949	1670	56.8%	3.9%
Benzoic Acid	2640	5000	52.8%	2460	5000	49.2%	7.1%
bis(2-Chloroethoxy) Methane	977	1670	58.5%	947	1670	56.7%	3.1%
2,4-Dichlorophenol	1100	1670	65.9%	1080	1670	64.7%	1.8%
1,2,4-Trichlorobenzene	1010	1670	60.5%	957	1670	57.3%	5.4%
Naphthalene	1000	1670	59.9%	967	1670	57.9%	3.4%
4-Chloroaniline	2440	4000	61.0%	2570	4000	64.2%	5.2%
Hexachlorobutadiene	972	1670	58.2%	929	1670	55.6%	4.5%
4-Chloro-3-methylphenol	1070	1670	64.1%	1040	1670	62.3%	2.8%
2-Methylnaphthalene	1050	1670	62.9%	1020	1670	61.1%	2.9%
Hexachlorocyclopentadiene	3500	5000	70.0%	3340	5000	66.8%	4.7%
2,4,6-Trichlorophenol	1140	1670	68.3%	1110	1670	66.5%	2.7%
2,4,5-Trichlorophenol	1100	1670	65.9%	1160	1670	69.5%	5.3%
2-Chloronaphthalene	1130	1670	67.7%	1130	1670	67.7%	0.0%
2-Nitroaniline	1050	1670	62.9%	1030	1670	61.7%	1.9%
Dimethylphthalate	1170	1670	70.1%	1130	1670	67.7%	3.5%
Acenaphthylene	1200	1670	71.9%	1180	1670	70.7%	1.7%
3-Nitroaniline	2560	4270	60.0%	2850	4270	66.7%	10.7%
Acenaphthene	1110	1670	66.5%	1090	1670	65.3%	1.8%

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: LCSD-053008
LCS/LCSD

Lab Sample ID: LCS-053008
LIMS ID: 08-11221
Matrix: Soil
Date Analyzed LCS: 06/03/08 14:49
LCSD: 06/03/08 15:23

QC Report No: MY43-Parametrix, Inc.
Project: Yakima - Former Boise Cascade

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
2,4-Dinitrophenol	3860	5000	77.2%	3550	5000	71.0%	8.4%
4-Nitrophenol	855	1670	51.2%	865	1670	51.8%	1.2%
Dibenzofuran	1150	1670	68.9%	1130	1670	67.7%	1.8%
2,6-Dinitrotoluene	1210	1670	72.5%	1210	1670	72.5%	0.0%
2,4-Dinitrotoluene	1230	1670	73.7%	1200	1670	71.9%	2.5%
Diethylphthalate	1150	1670	68.9%	1090	1670	65.3%	5.4%
4-Chlorophenyl-phenylether	1200	1670	71.9%	1160	1670	69.5%	3.4%
Fluorene	1180	1670	70.7%	1150	1670	68.9%	2.6%
4-Nitroaniline	960	1670	57.5%	935	1670	56.0%	2.6%
4,6-Dinitro-2-Methylphenol	3960	5000	79.2%	3810	5000	76.2%	3.9%
N-Nitrosodiphenylamine	1940	1670	116%	1910	1670	114%	1.6%
4-Bromophenyl-phenylether	1310	1670	78.4%	1290	1670	77.2%	1.5%
Hexachlorobenzene	1380	1670	82.6%	1360	1670	81.4%	1.5%
Pentachlorophenol	1070	1670	64.1%	1010	1670	60.5%	5.8%
Phenanthrene	1300	1670	77.8%	1280	1670	76.6%	1.6%
Carbazole	1350	1670	80.8%	1270	1670	76.0%	6.1%
Anthracene	1340	1670	80.2%	1290	1670	77.2%	3.8%
Di-n-Butylphthalate	1320	1670	79.0%	1220	1670	73.1%	7.9%
Fluoranthene	1310	1670	78.4%	1210	1670	72.5%	7.9%
Pyrene	1370	1670	82.0%	1530	1670	91.6%	11.0%
Butylbenzylphthalate	1320	1670	79.0%	1320	1670	79.0%	0.0%
3,3'-Dichlorobenzidine	2730	4270	63.9%	3110	4270	72.8%	13.0%
Benzo(a)anthracene	1280	1670	76.6%	1280	1670	76.6%	0.0%
bis(2-Ethylhexyl)phthalate	1370	1670	82.0%	1350	1670	80.8%	1.5%
Chrysene	1300	1670	77.8%	1270	1670	76.0%	2.3%
Di-n-Octyl phthalate	1400	1670	83.8%	1370	1670	82.0%	2.2%
Benzo(b)fluoranthene	1390	1670	83.2%	1330	1670	79.6%	4.4%
Benzo(k)fluoranthene	1430	1670	85.6%	1260	1670	75.4%	12.6%
Benzo(a)pyrene	1290	1670	77.2%	1240	1670	74.3%	4.0%
Indeno(1,2,3-cd)pyrene	1480	1670	88.6%	1680	1670	101%	12.7%
Dibenz(a,h)anthracene	1460	1670	87.4%	1670	1670	100%	13.4%
Benzo(g,h,i)perylene	1470	1670	88.0%	1730	1670	104%	16.2%
1-Methylnaphthalene	1080	1670	64.7%	1040	1670	62.3%	3.8%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	53.6%	52.0%
2-Fluorobiphenyl	61.6%	62.4%
d14-p-Terphenyl	77.2%	85.6%
d4-1,2-Dichlorobenzene	52.8%	50.8%
d5-Phenol	54.7%	53.1%
2-Fluorophenol	50.1%	49.6%
2,4,6-Tribromophenol	67.5%	66.1%
d4-2-Chlorophenol	56.5%	55.2%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.



Analytical Resources, Incorporated

Analytical Chemists and Consultants

12 June 2008

Kurt Easthouse
Parametrix, Inc.
411 108th Avenue NE
Suite 1800
Bellevue, WA 98004-5571

**RE: Project: Yakima-Former Boise Cascade
ARI Job No. MZ98**

Dear Kurt:

Please find enclosed the final results for the sample from the project referenced above. One sample was analyzed for PCBs as requested on 6/09/08.

There were no analytical complications noted.

As always, a copy of these reports and all raw data will remain on file at ARI. If you have questions, or require further information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

A handwritten signature in black ink that reads "Mark D. Harris".

Mark D. Harris
Project Manager
206-695-6210
<markh@arilabs.com>

Enclosures

cc: File MZ98

MDH/mdh

ARI Data Reporting Qualifiers

Effective 11/22/04

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- NR Spiked compound recovery is not reported due to chromatographic interference
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the limit
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
 Page 1 of 1

Sample ID: MB-060908
METHOD BLANK

Lab Sample ID: MB-060908
 LIMS ID: 08-12100
 Matrix: Soil
 Data Release Authorized: 
 Reported: 06/12/08

QC Report No: MZ98-Parametrix, Inc.
 Project: Yakima-Former Boise Cascade

Date Sampled: NA
 Date Received: NA

Date Extracted: 06/09/08
 Date Analyzed: 06/11/08 13:25
 Instrument/Analyst: ECD6/PK
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.0 g
 Final Extract Volume: 4.0 mL
 Dilution Factor: 1.00
 Silica Gel: No
 Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	65.8%
Tetrachlorometaxylene	74.5%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
 Page 1 of 1

Sample ID: TP-21-13
SAMPLE

Lab Sample ID: MZ98A
 LIMS ID: 08-12100
 Matrix: Soil
 Data Release Authorized: 
 Reported: 06/12/08

QC Report No: MZ98-Parametrix, Inc.
 Project: Yakima-Former Boise Cascade

Date Sampled: 05/19/08
 Date Received: 05/21/08

Date Extracted: 06/09/08
 Date Analyzed: 06/11/08 16:23
 Instrument/Analyst: ECD6/PK
 GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes
 Florisil Cleanup: No

Sample Amount: 12.0 g-dry-wt
 Final Extract Volume: 4.0 mL
 Dilution Factor: 1.00
 Silica Gel: No
 Percent Moisture: 35.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	79.8%
Tetrachlorometaxylene	87.0%

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
 Page 1 of 1

Sample ID: LCS-060908
 LCS/LCSD

Lab Sample ID: LCS-060908
 LIMS ID: 08-12100
 Matrix: Soil
 Data Release Authorized: 
 Reported: 06/12/08

QC Report No: MZ98-Parametrix, Inc.
 Project: Yakima-Former Boise Cascade
 Date Sampled: NA
 Date Received: NA

Date Extracted LCS/LCSD: 06/09/08
 Date Analyzed LCS: 06/11/08 13:47
 LCSD: 06/11/08 14:09
 Instrument/Analyst LCS: ECD6/PK
 LCSD: ECD6/PK

Sample Amount LCS: 12.0 g-dry-wt
 LCSD: 12.0 g-dry-wt
 Final Extract Volume LCS: 4.0 mL
 LCSD: 4.0 mL
 Dilution Factor LCS: 1.00
 LCSD: 1.00
 Silica Gel: No

GPC Cleanup: No
 Sulfur Cleanup: Yes
 Acid Cleanup: Yes
 Florisil Cleanup: No

Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	139	167	83.4%	147	167	88.2%	5.6%
Aroclor 1260	137	167	82.2%	134	167	80.4%	2.2%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	72.5%	70.8%
Tetrachlorometaxylene	76.2%	83.0%

Results reported in $\mu\text{g}/\text{kg}$ (ppb)
 RPD calculated using sample concentrations per SW846.

APPENDIX H

Opinion of Probable Cost

Appendix H

Documentation associated with Opinion of Probable Cost has been excluded from this report.