ThermoRetec Corporation
1011 S.W. Klickitat Way, Suite 207
Seattle, WA 98134-1162

ThermoRetec
Smart Solutions. Positive Outcomes.

(206) 624-9349 Phone
(206) 624-2839 Fax
www.thermoretec.com

July 12, 2000

Brandon Crocker
Nexus Properties, Inc.
4350 La Jolla Village Drive, Suite 930
San Diego, CA 92122

RE: Results of Under-Building Soil and Groundwater Testing at the Maryatt Industries Property

Dear Brandon:

This letter summarizes the results of the under-building soil and groundwater testing conducted recently at the Maryatt Industries property in Seattle. That work was conducted in order to evaluate the lateral extent of solvent-impacted soils and groundwater within the property boundary. This information is used in this letter to revise our conceptual remediation cost estimate and recommendations for redevelopment of the property.

1. Regulatory Background

The total cost for remediation of soils and groundwater and for facilitating site redevelopment is affected by state, local and federal environmental regulations. These regulations cover site cleanup, wastewater treatment and disposal, and the treatment/disposal of contaminated soils. Contaminant concentrations in soil and groundwater affect the applicability and cost impact of these regulations. A partial list of the regulations and applicable concentration-based decision triggers is provided below. These regulatory values provide a basis for interpretation of measured contaminant concentrations at the Maryatt property.

Cleanup Regulations – MTCA

The state of Washington has a set of regulations modeled after the federal CERCLA/Superfund regulations. These regulations specify requirements and procedures for the investigation and cleanup of contaminated properties. Cleanup levels have been developed under MTCA for soils, groundwater and for surface water, and additional procedures have been specified for evaluating potential impacts to other media (e.g., sediments and air). In developing the requirements for a cleanup action, the cleanup levels which must be obtained and the points at which those will be applied (points of compliance) are specified. Potential cleanup levels (not a complete list) that could be applied under MTCA at the Maryatt property include the following:

- Potential cleanup levels for groundwater:
  - Method B Groundwater: This cleanup level is stringent and is intended to permit use of groundwater as a drinking water source.
  - Method A Groundwater: This cleanup level exists only for certain compounds. It can be higher or lower than other cleanup levels and is typically based on a number of additional factors (such as analytical detection limits).
  - Method B Surface Water: Under MTCA, surface water cleanup levels are calculated based on an analysis of potential contaminant uptake by fish living in the surface water, and subsequent consumption of the fish by people. For solvent compounds, these cleanup levels tend to be less stringent than Method B groundwater cleanup levels.

- Potential Cleanup Levels for Soil
  - Method B Soil: These cleanup levels are derived under a soil ingestion risk analysis. In the analysis, future site occupants are assumed to consume a certain quantity of site soil each day for a period of time. Under these assumptions, the cleanup levels are derived at a concentration considered protective of human health. In the case of PCE, the Method B cleanup level can also be used as part of the hazardous waste determination process.
  - Method A Soil: The Method A cleanup levels for PCE, TCE and vinyl chloride in soil are based on the risk of the solvent compound leaching to groundwater. The resultant cleanup levels are more stringent than the Method B cleanup levels.

Wastewater Disposal Criteria

If groundwaters are extracted during site development or cleanup (e.g., during long-term hydraulic capture of contaminated groundwater as part of cleanup actions or during dewatering for deep soil excavations), then these waters will require disposal. Treatment will be required for heavily impacted groundwaters, with the extent of treatment defined by the disposal regulations. There are at least two reasonable options for wastewater disposal – discharge to surface waters or discharge to the sanitary sewer.

- NPDES discharge criteria: Disposal to surface waters could potentially be conducted under an NPDES permit. In this case, the discharged waters would likely need to meet the surface water criteria as listed above, and could potentially be required to meet groundwater criteria.

- POTW Discharge criteria: The second option for discharge of treated groundwaters would be to obtain a discharge permit, and discharge the treated waters to the King County publicly-owned treatment works (POTW). The default POTW discharge criteria for the Seattle are shown in Table 2. These criteria are in some cases (vinyl chloride) more stringent and in some cases less stringent than Method B surface water criteria.

Potential Hazardous/Dangerous Waste Issues

The disposal of contaminated soils can be affected by state and federal regulations governing

hazardous wastes. The federal regulations are known as RCRA. The corresponding, but more stringent, state regulations are known as the Dangerous Waste regulations.

- Listed Waste Issues: For dry cleaning sites, PCE-containing soils and groundwater can potentially be considered a listed hazardous waste using either the F-002 or the U-210 waste designation. The listing process is complicated and is subject to interpretation. If site history supports the listing, then the costs of soil treatment/disposal will be substantial ($200 to $1,000 per cubic yard) unless the PCE concentration in the soil remains below certain regulatory triggers. For PCE, the main trigger is the Method B soil cleanup level, which can be used by Ecology as the basis for a "contained out" determination. Soils below this concentration would no longer require management as a hazardous waste. Soils with concentrations above the Method B soil cleanup level but less than or equal to ten times the Universal Treatment Standard (UST) can potentially be landfill-disposed at a Subtitle C (hazardous) waste facility.

- Characteristic Waste Issues: State and federal regulations specify that any soils containing concentrations of specific contaminants at leachable concentrations in excess of certain limits must be regulated as a hazardous/dangerous waste. State and federal regulations use the same leaching test (TCLP leaching test) and the same trigger concentrations for waste designation applicability.

- State-Only Dangerous Waste Issues: In the state of Washington, any soils containing total chlorinated compounds in excess of 100 mg/kg are considered Dangerous Wastes. Additional toxicity calculations must be conducted to determine the applicability of the Dangerous Waste designations at lower concentrations.

2. Summary of Investigation Procedures

Investigations completed to date by ThermoRetec were based on our scope of work dated June 16, 2000. All work was conducted under a health and safety plan. Utility locates were completed prior to implementation of sampling.

Soil borings were placed in a total of nine locations beneath the existing buildings. Boring locations are shown in Figure 1. These borings were used to field-screen soil samples, collect soil samples for laboratory analysis, and to collect groundwater samples for laboratory analysis. The borings were completed on Friday and Saturday June 14 and 15. Borings were placed using either a hand-operated power auger or a truck-mounted geoprobe, depending on the vertical clearances within the site buildings. Borings were advanced either to refusal or to a depth of approximately 20 feet below grade.

Field screenings of soil samples were conducted using a photo-ionization detector. Headspace screenings were conducted to supplement the laboratory analytical data regarding solvent distribution. Screening results are shown on the boring logs (attached). Soil samples were collected in pre-cleaned, zero-headspace glass sample containers. Water samples were collected from each boring by peristaltic pump and were placed in zero-headspace, acid-preserved, pre-cleaned glass

VOA vials with septum lids. Laboratory analyses were conducted at Analytical Resources Inc. in Seattle using EPA Method 8260. Analytical data for soils are shown in Table 1. Table 2 summarizes the results of groundwater analyses.

Each of the soil completed borings was backfilled with bentonite. The cement/asphalt surface at each boring location was then patched to restore site conditions.

3. Summary of Field Investigation Results

Observations from field sampling are provided below for soil and groundwater. These data are interpreted within the context of the regulations summarized in Section 1. Final regulatory conclusions are subject to agency decision-making and other factors.

Soil Analytical Data

Soil analytical data collected during the current investigation are summarized in Table 1. Regulatory reference values are shown along the left side of the table for comparison.

The highest concentrations of solvent compounds in soil were noted at borings B-2, B-6, B-8, and B-9. These borings were located in the area adjacent to and/or downgradient of the suspected source area (area below the former dry cleaning machines) and within the area of highest groundwater contaminant concentrations. Soil concentrations in B-2 and B-8 tended to be highest in samples collected from near the water table (8 to 12 feet below grade). At B-9, the concentrations were highest at the 4-foot sampling depth, and remained elevated at the water table. In boring B-6 (adjacent to suspected source area) elevated PCE concentrations were detected at 18 feet below grade, but not at shallower sampled depths.

The PCE concentrations at B-9 (4 foot sampling depth) were the highest detected. These concentrations were greater than the 100 mg/kg Dangerous Waste criterion. The concentrations were also in excess of ten times the UTS concentration, and were high enough that exceedence of the TCLP criterion is considered likely. These observations indicate that shallow soils near the suspected source area may require management as hazardous wastes if excavated during site cleanup and redevelopment.

Groundwater Analytical Data

Groundwater analytical data are summarized in Table 2 along with relevant regulatory values. The analytical data collected previously by others from the property perimeter (seller-provided reports) are also summarized in the table.

Groundwater PCE concentrations within the building were highest in B-9 immediately down-gradient from the suspected source area. Concentrations in that boring were 120,000 ug/L, well above the applicable groundwater and surface water cleanup levels (0.8 to 5 ug/L) and also above the POTW discharge criteria for PCE (530 ug/L).

Concentrations of PCE were lower in other locations, with the gradient in measured concentrations consistent with a past release in the suspected source area and migration of the groundwater contamination in the direction of the site groundwater gradient (southeast).

Concentrations of TCE and vinyl chloride were both detected at concentrations above applicable cleanup levels and POTW discharge criteria These compounds were detected in areas downgradient from the source area. These compounds were likely produced by microbial transformation of the parent PCE compound. This transformation process has been heavily studied at other solvent-impacted sites. Due to the applicable cleanup levels, the vinyl chloride contamination is most likely to affect site cleanup and redevelopment costs and decision-making.

Fill Soil Observations

During soil sampling, observations were made regarding the depth and characteristics of the fill soils. These observations generally confirm the previously-suspected fill pattern. Fill soils were thin in the western portion of the site and increased in thickness to as much as 15 feet (below the existing basement floor grade) along the eastern side of the building. Observations suggest that about half of the fill consists of soil, and half consists of construction debris including bricks, concrete and other materials that could be classified as debris or refuse. Some of the fill soils have been impacted by solvent contamination. Previous testing data (provided by the property sellers) confirms the presence of petroleum contamination in fill soils in the northeast corner of the property.

4. Revision of Previous Conceptual Remediation Costs

The newly collected data have been used by ThermoRetec to revise our earlier conclusions regarding probable remediation costs. The revised costs are shown in Attachments A and B. The first table shows the costs likely to be incurred during an aggressive soil excavation approach. The second table summarizes costs associated with a containment remedy. These two alternatives are based on those that were summarized in our June 15 letter to Nexus.

As discussed previously, our remediation costs address only on-site liabilities. The potential for off-site liabilities to exist is considered very high based on the existing site investigation data. We have not at this time attempted to quantify the potential costs associated with resolving those liabilities.

Option 1: Aggressive Remediation of On-Site Contamination

The costs of aggressive soil and groundwater remediation have been affected negatively by three factors. These include:

- The presence of highly-impacted soils likely to require management as hazardous/dangerous wastes

- The presence of highly impacted groundwater throughout much of the subject property

- The presence of contaminated soils at depths of at least 18 feet below the grade of the existing basement floor

Based on these new observations, a probable cleanup cost range of between $3 and $6 million, and a probable remediation cost of $4.5 million was developed using the assumptions outlined in Attachment A. The implementation of this remedy is subject to additional testing and engineering, and costs remain conceptual until completion of additional studies. The scope of these additional studies was outlined in our previous letter of June 15.

Option 2: Containment & Long-Term Remediation of On-Site Contamination

The costs of this alternative have similarly been affected by the new information. The main changes in the alternative include the following:

- Assumptions that at least a partial soil excavation will be required, and that this excavation will generate soils that require management as hazardous/dangerous wastes.
- The detected groundwater concentrations are substantially higher than previously measured, resulting in increased containment, extraction and treatment/disposal costs.

Based on the new information and the assumptions listed in Attachment B, a total cleanup cost range of $2 to $3 million and a probable cleanup cost of $2.5 million were estimated for this alternative. As with the aggressive soil removal alternative, the implementation and cost of this remedy are subject to additional testing and engineering.

5. Recommendations

Based on the new information and the above-listed cost estimate revisions, we recommend that Nexus reevaluate the feasibility of implementing the overall project. If after completing this evaluation, you wish to proceed with the project, additional testing consistent with our June 15 letter should be implemented. That testing would include deep geotechnical borings, deep groundwater wells, and evaluation of the apparent off-site groundwater plume.

Upon completion of the additional investigations, sufficient information will exist to provide a cleanup cost estimate suitable for defining cleanup and redevelopment costs and for initial discussions with the regulatory agencies. These data will also provide the information necessary to initiate project engineering and to support design discussions with your architectural team.

6. Limitations

The conclusions presented in this report represent ThermoRetec's best professional judgement regarding environmental conditions and potential remediation requirements for the Maryatt site. These conclusions are based on the existing site characterization data, our review of available property information and state and federal environmental regulations and polices as they exist at the

time of this report.

The remediation approach and cost estimate presented in this document were based on current regulations, the existing site characterization data, preliminary engineering evaluations and our experience with the remediation of similar sites in the Pacific Northwest. The final remediation plan will be subject to negotiation with regulatory agencies and other parties (e.g., adjacent site owners). Final cleanup costs are dependent both on these negotiations, as well as the findings from remedial design process. Costs presented here are intended to be +/- 30% of the true cost, but actual costs may be outside of this range due to the above-listed contingencies. The accuracy of the above listed estimates may be refined, as additional engineering data become available of the property.

ThermoRetec has prepared this report in a manner that is commensurate with accepted procedures and practices in the environmental industry. It should be recognized that no effort can precisely define all environmental problems or eliminate all risks, and a certain degree of risk exists with every level of effort.

Please let me know if I can be of further assistance. It has been a pleasure working with you on this project.

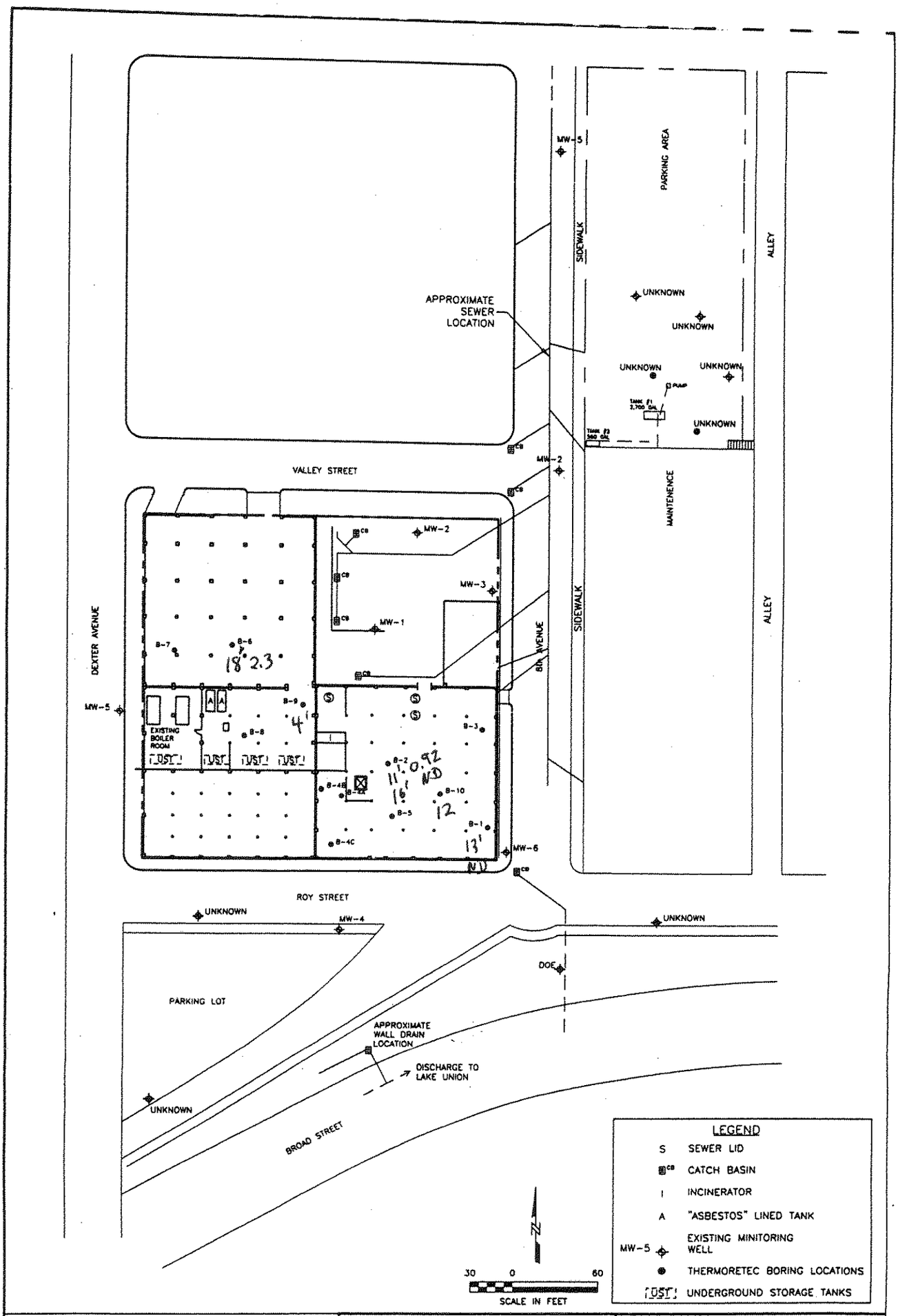
Sincerely,
THERMORETEC CONSULTING CORPORATION

Mark Larsen
Senior Project Manager

cc: J. Dulay / ThermoRetec
M. Arms / ThermoRetec
File

Attachments

Figure 1. Site Map
Table 1. Soil Analytical Data
Table 2. Groundwater Analytical Data
Table 3. Summary of Preliminary Remediation Costs
Attachment A. Preliminary Remediation Cost Assumptions: Aggressive Soil Removal Alternative
Attachment B: Preliminary Remediation Cost Assumptions: Hybrid Removal/Containment Alternative
Attachment C: Site Boring Logs (ThermoRetec and Other)
Attachment D: Analytical Data from the Under-Building Investigation
Attachment E: Excerpts from Previous Studies



ThermoRetec

NEXU1-14929-100

SITE MAP

DATE: 06/12/00 | DRWN: N.S. | FILE: 14929b01

FIGURE 2-1

Attachment A

Preliminary Remediation Cost Assumptions: Aggressive Soil Removal Alternative

Attachment A -- Preliminary Remediation Cost Assumptions: Aggressive Soil Excavation Alternative

Cost Factor	Action Trigger	Cost Basis	Probable Remediation Costs (x $1,000)		
			Lower Probable	Probable Cost	Upper Probable
1 Demolition Factors					
Above-Ground Demolition Asbestos & Lead Abatement	Required prior to cleanup	Cost varies with salvage value of steel. Cost excludes any required abatement.	(Conceptual Cost) $50	(Conceptual Cost) $100	(Conceptual Cost) $150
Subsurface Demolition Removal of four heating oil tanks	Required for access to excavation areas	Conceptual Cost	(Conceptual Cost) $20	(Conceptual Cost) $40	(Conceptual Cost) $60
2 Preparation for Deep Soil Excavation Shoring Costs for Additional Story of Excavation	Required for deep excavations	Assume 12 feet additional vertical excavation. Unit costs of $60 per square foot assumed.	(1,000 linear feet 8 ft average depth) $480	(1,000 linear feet 12 ft average depth) $720	(1,000 linear feet 15 ft. average depth) $900
Water permitting, extraction, treatment & disposal	MTCA cleanup and ARARs	Assume 20 gpm for 6 months and 10 gpm for additional 6 months. Discharge fees of approximately $50K. Assume carbon treatment prior to discharge to POTW.	(Estimated total cost) $200	(Estimated total cost) $300	(Estimated total cost) $400
3 Mass Soil Excavation Basic excavation costs	MTCA cleanup	Cost of $20 per cubic yard for excavation, staging, loading. Assumes no backfill and no transportation/disposal. Excludes water management &	(12 feet average depth over entire block. Est. 27,000 cyd) $387	(15 feet average over entire block. Est. 34,000 cyd total) $484	(18 feet average over entire block. Est. 41,000 cyd total) $581
4 Management of Generated Soils Management of clean soils fraction	MTCA cleanup	Assume that 50% of soils can be managed as clean soil at minimal cost of $5 per cyd.	(14,000 cyd managed as clean soil -- 50% of 27,000 cyd $112	(17,000 cyd managed as clean soil -- 50% of 34,000 cyd $136	(21,000 cyd managed as clean soil -- 50% of 41,000 cyd $168
Management of non-hazardous solvent-impacted soils fraction	MTCA cleanup	Estimate MTCA Method A exceedences from within 1/2 acre central plume area. Assume $50 per cyd for transportation & RABANCO disposal	(Est. 6 ft. average thickness or 5,000 cyd)	(Est. 9 ft average thickness within central plume area -- total of 7,500 cyd)	(Est. 12 ft average thickness within central plume area or 10,000 cyd)

Attachment B

Preliminary Remediation Cost Assumptions: Hybrid Removal/Containment Alternative

Attachment B -- Preliminary Remediation Cost Assumptions: Hybrid Removal/Containment Alternative

Cost Factor	Action Trigger	Cost Basis	Probable Remediation Costs (x $1,000)		
			Lower Probable	Probable Cost	Upper Probable
1 Demolition Factors					
Above-Ground Demolition Asbestos & Lead Abatement	Required prior to cleanup	Cost varies with salvage value of steel. Cost excludes any required abatement.	(Conceptual Cost) **$50**	(Conceptual Cost) **$100**	(Conceptual Cost) **$150**
Subsurface Demolition Removal of four heating oil tanks	Required for access to excavation areas	Conceptual Cost	(Conceptual Cost) **$20**	(Conceptual Cost) **$40**	(Conceptual Cost) **$60**
2 Source-Area Excavation					
Shallow Source-Area Soil Removal	MTCA cleanup	Cost of $200 per cubic yard for excavation of source-area soils. Assumes excavation is backfilled. Soils are treated on-site and then disposed of at	(1,500 cyd) **$300**	(2,000 cyd) **$400**	(3,500 cyd) **$700**
Management of petroleum-impacted soils from Valley Street tank cluster	MTCA cleanup	Cost of $85 per cubic yard for excavation transportation & treatment/disposal.	(750 cyd) **$64**	(1,500 cyd) **$128**	(2,500 cyd) **$213**
3 Water & Vapor Collection System					
Building vapor abatement system and groundwater extraction system	MTCA cleanup	Conceptual costs.	(Estimated costs) **$300**	(Estimated costs) **$400**	(Estimated costs) **$500**
Perimeter Containment Wall	MTCA cleanup	Estimated costs of $18 per suare foot.	(Assume 1000 linear feet, depth of 20 feet below basement **$360**	(Assume 1000 linear feet, depth of 30 feet below basement floor **$540**	(Assume 1000 linear feet, depth of 40 feet below basement floor **$720**
4 Completion of RI/FS, CAP Process	MTCA cleanup	Potential costs for completion of due diligence investigations, RI/FS and CAP documents with Ecology and	(12% of capital)	(12% of capital)	(12% of capital)
5 Engineering for Capital Costs	Standard requirement for implementation of	Implementation requirements.	**$131** (12% of capital) **$131**	**$193** (12% of capital) **$193**	**$281** (12% of capital) **$281**
6 Remediation O&M					
Short-term water treatment & disposal	MTCA cleanup	Assumed costs for O&M and discharge	(Estimated costs) **$200**	(Estimated costs) **$400**	(Estimated costs) **$600**
Groundwater monitoring & reporting	MTCA cleanup	Assumed long-term monitoring at base of	(Estimated costs) **$100**	(Estimated costs) **$200**	(Estimated costs) **$250**
TOTAL REMEDIATION COSTS			**$1,656**	**$2,593**	**$3,755**

Notes:

This cost estimate is preliminary and should not be used for engineering or budgeting purposes.
This cost estimate includes only the management for on-site contamination. Off-site liabilities may be significant.
The final remedy will be subject to agency decision-making and other factors which may substantially impact final costs.

Table 3. Summary of Preliminary Remediation Costs -- Maryatt Industries

CLEANUP COST ELEMENT & DESCRIPTION	ALTERNATIVE 1 PROBABLE COSTS (x $1,000)	ALTERNATIVE 2 PROBABLE COSTS (x $1,000)
Facility Demolition	**$140**	**$140**
Asbestos/Lead Abatement	100	100
Tank Removal	40	40
Soil Excavation	**$2,730**	**$528**
Shoring and Dewatering	1,020	NA
Excavation & Soil Management	1,710	528
Containment Systems	**$530**	**$940**
Venting & Water Extraction (Capital costs only)	350	400
Cut-Off Wall	180	540
Engineering, Regulatory	**$748**	**$386**
RI/FS, CAP, Consent Decree Process	340	193
Engineering, Procurement, Monitoring, Reporting	408	193
Long-Term O&M	**$450**	**$600**
Water treatment & disposal	300	400
Groundwater monitoring & reporting	150	200
TOTAL ESTIMATED COSTS	**$4,598**	**$2,593**

Notes:

This cost estimate is preliminary and should not be used for engineering or budgeting purposes.
This cost estimate includes only the management for on-site contamination. Off-site liabilities may be significant.
The final remedy will be subject to agency decision-making and other factors which may substantially impact final costs.

Table 2. Comparison of Groundwater Analytical Results to Regulatory Screening Criteria

CAS #	Name	Method A Groundwater (ug/l)	Method B Groundwater (ug/L)	UTS[1] (ug/L)	UTS x 10[1] (ug/L)	TCLP DW (ug/L)	Metro Criteria	Method B Surface Water	B-2-11.5	B-6-14.5	B-7	B-8-8	B-9-12	B-10-12.5	MW-1 ROUX (10/24/92)	MW-1 DOF (10/24/92)	MW-1 DOF (11/05/92)	MW-2 ROUX (10/24/92)	MW-2 DOF (10-24-92)
75-01-4	Vinyl Chloride	0.2	0.023	NL	NL	200	0.3	2.92	<250	<50	<50	<50	<50	98	100	170	210	<5.0	NA
79-01-6	Trichlorethelene	NL	3.98	54	540	500	710	55.6	600	54	310	<50	210	1100	<5.0	0.8	<0.020	<5.0	NA
127-18-4	Teterachloroethylene	5	0.858	54	540	700	530	4.15	37000	6800	21000	3100	120000	9100D	3	4.2	38	<5.0	NA
156-59-2	cis-1,2-DichloroeThene	NL	80	NL	NL	NL	3000T	NL	4100	57	880	<50	270	7600	NA	12T	42T	NA	NA
156-60-5	trans-1,2-Dichloroethene	NL	160	NL	NL	NL	3000T	32800	<250	<50	<50	<50	<50	<50	NA	NA	NA	NA	NA
67-66-3	Chloroform	NL	7.17	460	4600	NL	NL	283	<250	<50	<50	<50	<50	<50	NA	NA	NA	NA	NA

CAS #	Name	Method A Groundwater (ug/l)	Method B Groundwater (ug/L)	UTS[1] (ug/L)	UTS x 10[1] (ug/L)	TCLP DW (ug/L)	Metro Criteria	Method B Surface Water	MW-3 ROUX (10/24/92)	MW-3 DOF (10-24-92)	MW-4 ROUX (10/24/92)	MW-4 DOF (10-24-92)	MW-4 DOF (11-03-92)	MW-4 DOF (11-05-92)	MW-5 ROUX (10/24/92)	MW-5 DOF (10-24-92)	MW-6 DOF (10-28-92)	MW-6 DOF (11-03-92)	MW-6 DOF (11-05-92)
75-01-4	Vinyl Chloride	0.2	0.023	NL	NL	200	0.3	2.92	<5.0	NA	<5.0	NA	<2.0	<2.0	ND	<2.0	240	<40	68
79-01-6	Trichlorethelene	NL	3.98	54	540	500	710	55.6	<5.0	NA	69	NA	2.8	30	ND	<2.0	920	160	270
127-18-4	Teterachloroethylene	5	0.858	54	540	700	530	4.15	<5.0	NA	814	NA	31	29	ND	<2.0	4500	690	1100
156-59-2	cis-1,2-DichloroeThene	NL	80	NL	NL	NL	3000T	NL	NA	NA	<5.0	NA	<2.0T	<2.0T	NA	<2.0	NA	520T	830T
156-60-5	trans-1,2-Dichloroethene	NL	160	NL	NL	NL	3000T	32800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
67-66-3	Chloroform	NL	7.17	460	4600	NL	NL	283	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

NL: No Regulatory values are Listed at this time
NA: Compound not Analyzed
ND: Compound not Detected above Method detection levels
T: Concentrations for total Dichloroethen
D: Concentration obtained from diluted sample
1: Based on potential F-002 listing. This listing may or may not apply to media generated from this site
All values are in parts per billion (ppb or ug/L)

Table 1. Comparison of Soil Analytical Results to Regulatory Screening Criteria

CAS #	Name	Method A (mg/kg)	Method A 100x GW	Cleanup Method B	Method B 100x GW (mg/kg)	UTS[1] (mg/kg)	UTS x 10[1] (mg/kg)	TCLP DW (mg/L)	TCLP 20x (mg/kg)	B-1-13	B-2-6.5	B-2-11	B-2-16	B-3-12	B-5-10	B-5-11.5	B-6-6	B-6-12
75-01-4	Vinyl Chloride	NL	0.02	0.526	0.0023	NL	NL	0.2	4	<0.0012	<0.001	<0.001	<0.001	<0.0013	<0.0011	<0.0012	<0.0012	<0.0012
79-01-6	Trichlorethelene	NL	NL	90.9	0.398	6	60	0.5	10	<0.0012	0.002	0.085	0.049	<0.0013	<0.0011	<0.0012	0.0014	0.0026
127-18-4	Teterachloroethylene	0.5	0.5	19.6	0.0858	6	60	0.7	14	<0.0012	0.017	**0.92D**	<0.001	<0.0013	0.0051	0.12	0.0085	0.0067
156-59-2	cis-1,2-Dichloroethene	NL	NL	800	8	NL	NL	NL	NL	0.0021	0.011	0.64D	0.0075	0.0016	0.0021	0.013	0.0021	0.0047
156-60-5	trans-1,2-Dichloroethene	NL	NL	1600	16	NL	NL	NL	NL	<0.0012	<0.001	0.0037	<0.001	<0.0013	<0.0011	<0.0012	<0.0012	<0.0012
67-66-3	Chloroform	NL	NL	164	0.717	NL	6	6	120	<0.0012	<0.001	<0.001	<0.001	<0.0013	<0.0011	<0.0012	<0.0012	<0.0012
	Estimated Elevation (feet)									15.5	22	17.5	12.5	16.5	18.5	17	22.5	15.5

CAS #	Name	Method A (mg/kg)	Method A 100x GW	Cleanup Method B	Method B 100x GW (mg/kg)	UTS[1] (mg/kg)	UTS x 10[1] (mg/kg)	TCLP DW (mg/L)	TCLP 20x (mg/kg)	B-6-18	B-7-6	B-8-4	B-8-8	B-9-4	B-9-4 (Re-Run)	B-9-8	B-10-12
75-01-4	Vinyl Chloride	NL	0.02	0.526	27	NL	NL	0.2	4	<0.0013	<0.0012	<0.0011	<0.0011	<0.0012	<1.6	<0.0012	<0.0011
79-01-6	Trichlorethelene	NL	NL	90.9	0.398	6	60	0.5	10	0.0078	0.0029	0.0006	0.017	**0.450E**	<1.6	0.13	0.0014
127-18-4	Teterachloroethylene	0.5	0.5	19.6	0.0858	6	60	0.7	14	**2.3**	0.031	0.092	**1.4D**	**7.6E**	**170D**	**4.8D**	0.017
156-59-2	cis-1,2-Dichloroethene	NL	NL	800	8	NL	NL	NL	NL	0.0031	0.0052	0.0019	0.021	0.560E	<1.6	0.21	0.0061
156-60-5	trans-1,2-Dichloroethene	NL	NL	1600	16	NL	NL	NL	NL	<0.0013	<0.0012	<0.0011	<0.0011	0.0088	<1.6	0.0022	<0.0011
67-66-3	Chloroform	NL	NL	164	0	NL	6	6	120	<0.0013	<0.0012	<0.0011	<0.0011	0.0031	<1.6	0.0018	<0.0011
	Estimated Elevation (feet)									9.5	21.5	24	20	24	24	20	11

Notes:

NL: No Regulatory values are listed at this time

t: Concentrations for total Dichloroethene

D: Concentration obtained from diluted sample

1. Based on potential F-002 listing. This listing may or may not apply to media generated from this site

All values are in parts per million (ppm or mg/kg).

Attachment C

Site Boring Logs
(ThermoRetec and Other)

ThermoRetec
Smart Solutions. Positive Outcomes.

BORING LOG
B-1

1011 S.W. Klickitat Way
Suite #207
Seattle, Washington 98134
(206) 624-9349
www.thermoretec.com

PROJECT NO: *NEXUI-14929-100 Maryatt/Cintas Property*		CLIENT: *Nexus Properties, Inc.*
LOCATION: *Seattle, Washington; SE Corner Area of Parking Garage*		DRILLING CO.: *TEG*
START DATE: *06/23/00* TIME: *10:33*	BORE HOLE ID: *1.5 inches*	DRILLER: *Eric*
COMPLETION DATE: *06/23/00* TIME:	BORING DEPTH: *14.0 feet bgs*	RIG TYPE: *Handheld*
WATER LEVEL DURING DRILLING: *'bgs*	*SURFACE ELEV.: feet (MSL)*	METHOD: *Geoprobe*
DATE MEASURED:	M. P. ELEVATION: *feet (MSL)*	LOGGED BY: *C. Alferness*

DEPTH (in feet)	SAMPLE DATA: TYPE	DEPTH	BLOWS/6"	% RECOVERY	PID (ppm)	U.S.C.S.	LITHOLOGY	SOIL DESCRIPTION
0	DT			90	0/0	AC		CONCRETE
						SM		SILTY SAND WITH GRAVEL (FILL); Brown mottled; moist to dry.
	DT			90	0/0	SP		SAND WITH SILT; Gray; fine- to medium-grained; very uniform; trace small gravel; dry.
	DT			90	0/0	SM		SILTY SAND; Gray; dry; loose.
5						SP		SAND; Trace silt and gravel; dry to slightly moist.
	DT			90	0/0	SM		SILTY SAND; Gray; moist.
						ML/SP		INTERBEDDED SILT AND SAND; Gray; moist to wet.
	DT			80	0/0	OL		ORGANIC SILT; Dark brown; moist; soft.
10	DT			90	0/0			
						SP		SAND WITH SILT LENSES; Gray; medium- to coarse-grained; moist.
	DT			100	0/0	SP		*11.5'* – Rock.
						SP		SAND WITH SILT; Gray; moist to wet.
								SAND; Gray; with silt; moist; loose.
								12.5'–13.5' – Gray and brown; medium- to coarse-grained; moist to slightly wet.
								13.5'–14.0' – Interbedded brown and gray; trace silt; moist.
15								Refusal. Total depth = 14.0 feet bgs.

REMARKS: DT – Dual Tube
0/0 – Scan/Headspace
■ – Sample Interval

BORING LOG

B-2

ThermoRetec
Smart Solutions. Positive Outcomes.

1011 S.W. Klickitat Way
Suite #207
Seattle, Washington 98134
(206) 624-9349
www.thermoretec.com

PROJECT NO: *NEXUI-14929-100 Maryatt/Cintas Property*		CLIENT: *Nexus Properties, Inc.*
LOCATION: *Seattle, Washington; Near N End of Elevator*		DRILLING CO.: *TEG*
START DATE: *06/23/00 TIME: 08:50*	BORE HOLE ID: *1.5 inches*	DRILLER: *Eric*
COMPLETION DATE: *06/23/00 TIME: 10:30*	BORING DEPTH: *15.5 feet bgs*	RIG TYPE: *Handheld*
WATER LEVEL DURING DRILLING: *11.0' bgs*	SURFACE ELEV.: *feet (MSL)*	METHOD: *Geoprobe*
DATE MEASURED: *06/23/00*	M. P. ELEVATION: *feet (MSL)*	LOGGED BY: *C. Alferness*

DEPTH (in feet)	SAMPLE DATA: TYPE	DEPTH	BLOWS/6"	% RECOVERY	PID (ppm)	U.S.C.S.	LITHOLOGY	SOIL DESCRIPTION
0	DT			75	0	AC / GP		CONCRETE SANDY GRAVEL WITH TRACE SILT (FILL): Brown; dry; loose; no odor.
	DT			75	0			
						SW		SAND WITH SILT: Brown to light brown; sorted; dry.
	DT			75	0	ML		SILT WITH SAND AND GRAVEL
						ML		SILT: Organic, with some ash and white particles (disintegrating brick); dry.
5						SW		SAND: As at 3.0 feet bgs; dry.
	DT			75	0	ML		SILT: Brown; moist.
						ML		SANDY SILT: Buff; moist; no odor.
						SP		SAND: Buff; fine-grained; with silt; trace organics.
	DT			80	0	SP		SAND WITH SILT: Trace gravel; dry.
						ML		SILT: Trace sand; trace organics; dry.
						GP		GRAVEL WITH SAND AND SILT: Brown; lens of sand; moist; no odor.
10	DT			80	0/25	SP ▽		GRAVELLY SAND: Brown; with silt; moist; loose.
						SP		SAND: Medum- to coarse-grained; trace silt; saturated.
	DT			100	12			
						GP		GRAVEL: With sand and silt. *14.0'-15.5'* - Brown.
15	DT			100	9			
								Refusal. Total depth = 15.5 feet bgs.
20								

REMARKS: DT - Dual Tube
0/0 - Scan/Headspace (See Field Notes for Headspace readings.)
■ - Sample Interval

BORING LOG
B-3

ThermoRetec
1011 S.W. Klickitat Way
Suite #207
Seattle, Washington 98134
(206) 624-9349
www.thermoretec.com

PROJECT NO: *NEXU1-14929-100 Maryatt/Cintas Property*		CLIENT: *Nexus Properties, Inc.*
LOCATION: *Seattle, Washington; NE Garage Corner*		DRILLING CO.: *TEG*
START DATE: *06/23/00 TIME:*	BORE HOLE ID: *1.5 inches*	DRILLER: *Eric*
COMPLETION DATE: *06/23/00 TIME: 13:00*	BORING DEPTH: *14.0 feet bgs*	RIG TYPE: *Handheld*
WATER LEVEL DURING DRILLING: *11.5' bgs*	*SURFACE ELEV.: feet (MSL)*	METHOD: *Geoprobe*
DATE MEASURED: *06/23/00*	M. P. ELEVATION: *feet (MSL)*	LOGGED BY: *C. Alferness*

DEPTH (in feet)	SAMPLE DATA: TYPE	DEPTH	BLOWS/6"	% RECOVERY	PID (ppm)	U.S.C.S.	LITHOLOGY	SOIL DESCRIPTION
0	DT			25	0/0	AC		CONCRETE
	DT			25	0/0	GP		GRAVELLY FILL: Brown; possible ash; possible white brick (disintegrated); orange brick pieces; some glass; dry; loose.
	DT			100	0/0			
5	DT			100	0/0	SP		SAND: Brown; fine- to medium-grained; with trace silt and gravel; dry; loose. *6.0'-8.0'* - One silt lens; trace gravel and silt; dry.
	DT			100	0/0			*8.0'-9.0'* - Moist.
10	DT			100	0/0	OL		ORGANIC SILT: Brown to dark brown; 1 piece of charcoal; moist; soft.
	DT			100	0/0	SP		SAND WITH SILT: Gray; moist to saturated; no odor.
						GP		GRAVEL: Fractured.
						SP		SAND WITH SILT: As at 10.25 feet bgs.
						ML		SILT WITH SAND: Gray; moist.
15								Refusal. Total depth = 14.0 feet bgs.

REMARKS: DT - Dual Tube
0/0 - Scan/Headspace
■ - Sample Interval

ThermoRetec
Smart Solutions. Positive Outcomes.

BORING LOG
B-4A

1011 S.W. Klickitat Way
Suite #207
Seattle, Washington 98134
(206) 624-9349
www.thermoretec.com

PROJECT NO: *NEXUI-14929-100 Maryatt/Cintas Property*		CLIENT: *Nexus Properties, Inc.*
LOCATION: *Seattle, Washington; W of Elevator Shaft*		DRILLING CO.: *TEG*
START DATE: *06/23/00* TIME: *13:40*	BORE HOLE ID: *1.5 inches*	DRILLER: *Eric*
COMPLETION DATE: *06/23/00* TIME: *14:00*	BORING DEPTH: *3.5 feet bgs*	RIG TYPE: *Handheld*
WATER LEVEL DURING DRILLING: *' bgs*	*SURFACE ELEV.: feet (MSL)*	METHOD: *Geoprobe*
DATE MEASURED:	M. P. ELEVATION: *feet (MSL)*	LOGGED BY: *C. Alferness*

DEPTH (in feet)	SAMPLE DATA: TYPE	DEPTH	BLOWS/6"	% RECOVERY	PID (ppm)	U.S.C.S.	LITHOLOGY	SOIL DESCRIPTION
0	DT			25	0/0	AC		CONCRETE
						GP		GRAVEL WITH SAND AND SILT (FILL); Brown; dry; loose.
	DT							
								3.5' – Large gravel.
								Refusal. Total depth = 3.5 feet bgs.
5								
10								
15								

REMARKS: DT – Dual Tube
0/0 – Scan/Headspace
▮ – Sample Interval

ThermoRetec
Smart Solutions. Positive Outcomes.

BORING LOG
B-4B

1011 S.W. Klickitat Way
Suite #207
Seattle, Washington 98134
(206) 624-9349
www.thermoretec.com

PROJECT NO: *NEXUI-14929-100 Maryatt/Cintas Property*		CLIENT: *Nexus Properties, Inc.*
LOCATION: *Seattle, Washington; By W Wall of Parking Garage*		DRILLING CO.: *TEG*
START DATE: *06/24/00* TIME: *14:05*	BORE HOLE ID: *1.5 inches*	DRILLER: *Eric*
COMPLETION DATE: *06/24/00* TIME:	BORING DEPTH: *3.5 feet bgs*	RIG TYPE: *Handheld*
WATER LEVEL DURING DRILLING: *' bgs*	*SURFACE ELEV.: feet (MSL)*	METHOD: *Geoprobe*
DATE MEASURED:	M. P. ELEVATION: *feet (MSL)*	LOGGED BY: *C. Alferness*

DEPTH (in feet)	SAMPLE DATA: TYPE	DEPTH	BLOWS/6"	% RECOVERY	PID (ppm)	U.S.C.S.	LITHOLOGY	SOIL DESCRIPTION
0	DT			40	0/0	AC		CONCRETE
						ML		SILT WITH SAND (FILL); Brown; trace gravel; dry; loose.
	DT			5	0/0			
								Refusal. Total depth = 3.5 feet bgs.
5								
10								
15								

REMARKS: DT - Dual Tube
0/0 - Scan/Headspace
⊠ - Sample Interval

ThermoRetec

BORING LOG
B-4C

1011 S.W. Klickitat Way
Suite #207
Seattle, Washington 98134
(206) 624-9349
www.thermoretec.com

PROJECT NO: *NEXUI-14929-100 Maryatt/Cintas Property*		CLIENT: *Nexus Properties, Inc.*
LOCATION: *Seattle, Washington; S of Elevator*		DRILLING CO.: *TEG*
START DATE: *06/24/00* TIME: *15:00*	BORE HOLE ID: *1.5 inches*	DRILLER: *Eric*
COMPLETION DATE: *06/24/00* TIME:	BORING DEPTH: *2.0 feet bgs*	RIG TYPE: *Handheld*
WATER LEVEL DURING DRILLING: *' bgs*	*SURFACE ELEV.: feet (MSL)*	METHOD: *Geoprobe*
DATE MEASURED:	M. P. ELEVATION: *feet (MSL)*	LOGGED BY: *C. Alferness*

DEPTH (in feet)	SAMPLE DATA: TYPE	DEPTH	BLOWS/6"	% RECOVERY	PID (ppm)	U.S.C.S.	LITHOLOGY	SOIL DESCRIPTION
0	DT	⊠				SP		SAND WITH SILT (FILL); Trace gravel.
								Refusal. Total depth = 2.0 feet bgs.
5								
10								
15								

REMARKS: DT - Dual Tube
⊠ - Sample Interval

ThermoRetec
Smart Solutions. Positive Outcomes.

BORING LOG
B-5

1011 S.W. Klickitat Way
Suite #207
Seattle, Washington 98134
(206) 624-9349
www.thermoretec.com

PROJECT NO: *NEXUI-14929-100 Maryatt/Cintas Property*		CLIENT: *Nexus Properties, Inc.*
LOCATION: *Seattle, Washington; SE of Elevator*		DRILLING CO.: *TEG*
START DATE: *06/23/00* TIME:	BORE HOLE ID: *15 inches*	DRILLER: *Eric*
COMPLETION DATE: *06/23/00* TIME: *15:00*	BORING DEPTH: *12.0 feet bgs*	RIG TYPE: *Handheld*
WATER LEVEL DURING DRILLING: *'bgs*	*SURFACE ELEV.: feet (MSL)*	METHOD: *Geoprobe*
DATE MEASURED:	M. P. ELEVATION: *feet (MSL)*	LOGGED BY: *C. Alterness*

DEPTH (in feet)	SAMPLE DATA: TYPE	DEPTH	BLOWS/6"	% RECOVERY	PID (ppm)	U.S.C.S.	LITHOLOGY	SOIL DESCRIPTION
0	DT			25	0/0	AC		CONCRETE
						ML		GRAVELLY SANDY SILT (FILL); Brown mottled; moist; no odor.
	DT			25	0/0			
						SP		SAND; Brown; fine- to medium-grained; trace silt and gravel; dry; loose.
	DT			85	0/0			*4.0'-7.0'* - Grades medium- to coarse-grained; trace gravel.
5								
	DT			100	0/0			*7.0'-8.0'* - With trace silt; dry.
	DT			100	0/0			
						SM		SILTY SAND; Brown; trace gravel; trace moisture; loose.
						SP		SAND WITH SILT LENSES; Brown; dry to moist.
10	DT							*10.0'-11.0'* - Moist.
						ML		SILT; Brown; trace sand; dry to slightly moist; soft to hard.
15								Refusal. Total depth = 12.0 feet bgs.

REMARKS: DT - Dual Tube
0/0 - Scan/Headspace
■ - Sample Interval

ThermoRetec
Smart Solutions. Positive Outcomes.

1011 S.W. Klickitat Way
Suite #207
Seattle, Washington 98134
(206) 624-9349
www.thermoretec.com

BORING LOG
B-6

PROJECT NO: *NEXUI-14929-100 Maryatt/Cintas Property*		CLIENT: *Nexus Properties, Inc.*
LOCATION: *Seattle, Washington; N End of Body/Mechanical Shop*		DRILLING CO.: *TEG*
START DATE: *06/24/00 TIME: 08:30*	BORE HOLE ID: *1.5 inches*	DRILLER: *Eric*
COMPLETION DATE: *06/24/00 TIME: 10:00*	BORING DEPTH: *20.0 feet bgs*	RIG TYPE: *Strataprobe*
WATER LEVEL DURING DRILLING: *10.5' bgs*	*SURFACE ELEV.: feet (MSL)*	METHOD: *Direct Push*
DATE MEASURED: *06/24/00*	M. P. ELEVATION: *feet (MSL)*	LOGGED BY: *C. Alferness*

DEPTH (in feet)	SAMPLE DATA: TYPE	DEPTH	BLOWS/6"	% RECOVERY	PID (ppm)	U.S.C.S.	LITHOLOGY	SOIL DESCRIPTION
0	DT			100	0/4	AC		CONCRETE
						SP		SAND; Brown; trace gravel; moist; no odor.
	DT			100	0/0.5	ML		SILT; Gray; with sand; moist.
						GP		GRAVEL WITH SAND AND SILT; Brown; moist; loose.
5						ML		SILT; Gray to brown; trace sand; occasional sand lens.
						SP		SAND; Brown; medium- to coarse-grained; trace silt and gravel; moist to saturated.
						ML		SANDY SILT; Brown; moist.
	DT			90	0/0	SP		SAND WITH GRAVEL AND SILT; Brown; moist.
						ML		SILT WITH SAND; Brown; trace gravel; moist.
10						ML		SILT; Gray-brown; moist; hard.
	DT			25	0/0	ML		SANDY SILT; Brown; with trace gravel; moist; hard.
						SM		SILTY SAND AND SANDY SILT; With trace gravel; moist to saturated.
	DT			25	0/0	ML		SILT; Brown mottled; moist.
15						SP		SAND; Brown; coarse-grained; with trace silt and gravel; saturated.
						ML		SILT; Brown; moist.
	DT					SP		SAND WITH SILTY SAND LENSES; Brown; trace gravel; saturated.
						GP		GRAVEL WITH SAND; Brown; saturated.
20								Total depth = 20.0 feet bgs.
25								

REMARKS: DT - Dual Tube
0/0 - Scan/Headspace
■ - Sample Interval

ThermoRetec

BORING LOG
B-7

1011 S.W. Klickitat Way
Suite #207
Seattle, Washington 98134
(206) 624-9349
www.thermoretec.com

PROJECT NO: *NEXU1-14929-100 Maryatt/Cintas Property*		CLIENT: *Nexus Properties, Inc.*
LOCATION: *Seattle, Washington; Midway*		DRILLING CO.: *TEG*
START DATE: *06/24/00* TIME: *10:00*	BORE HOLE ID: *2 inches*	DRILLER: *Eric*
COMPLETION DATE: *06/24/00* TIME: *11:00*	BORING DEPTH: *14.0 feet bgs*	RIG TYPE: *Strataprobe*
WATER LEVEL DURING DRILLING: *12.5' bgs*	SURFACE ELEV.: *feet (MSL)*	METHOD: *Direct Push*
DATE MEASURED: *06/24/00*	M. P. ELEVATION: *feet (MSL)*	LOGGED BY: *C. Alferness*

DEPTH (in feet)	SAMPLE DATA: TYPE	DEPTH	BLOWS/6"	% RECOVERY	PID (ppm)	U.S.C.S.	LITHOLOGY	SOIL DESCRIPTION
0	DT			100	0/1.5	AC		CONCRETE
						SP		SAND; Brown; medium-grained; trace silt and gravel; moist.
5	DT			80	0/1.5			
						GP		GRAVEL; Up to 1" diameter; angular; dry.
						ML		SILT WITH TRACE SAND; Mottled; looks like fill.
	DT			10	0/0	SL		SLOUGH; Hole collapsed to 6.0 feet bgs; couldn't get through gravel; drove to 14.0 feet bgs to get water sample.
10						NR		NO RECOVERY
								Total depth = 14.0 feet bgs.
15								

REMARKS: DT - Dual Tube
0/0 - Scan/Headspace
▣ - Sample Interval

ThermoRetec
Smart Solutions. Positive Outcomes.

BORING LOG
B-8

1011 S.W. Klickitat Way
Suite #207
Seattle, Washington 98134
(206) 624-9349
www.thermoretec.com

PROJECT NO: *NEXUI-14929-100 Maryatt/Cintas Property*		CLIENT: *Nexus Properties, Inc.*
LOCATION: *Seattle, Washington; W near Sump/Nearest to Boiler*		DRILLING CO.: *TEG*
START DATE: *06/24/00* TIME: *11:00*	BORE HOLE ID: *1.5 inches*	DRILLER: *Eric*
COMPLETION DATE: *06/24/00* TIME:	BORING DEPTH: *9.0 feet bgs*	RIG TYPE: *Handheld*
WATER LEVEL DURING DRILLING: *8.0' bgs*	*SURFACE ELEV.: feet (MSL)*	METHOD: *Geoprobe*
DATE MEASURED: *06/24/00*	M. P. ELEVATION: *feet (MSL)*	LOGGED BY: *C. Alferness*

DEPTH (in feet)	SAMPLE DATA: TYPE	DEPTH	BLOWS/6"	% RECOVERY	PID (ppm)	U.S.C.S.	LITHOLOGY	SOIL DESCRIPTION
0	DT			25	0/1.5	AC		CONCRETE
						ML		SILT WITH SAND AND TRACE GRAVEL (FILL): Brown; moist to dry.
	DT			--	--	NR		**NO RECOVERY:** Rock in sampler.
	DT			50	45/10	ML		SANDY SILT WITH GRAVEL: Brown.
5	DT			10	10/3			
	DT			50	5/0	SM		SILTY SAND: Brown; fine- to medium-grained; saturated.
								Refusal. Total depth = 9.0 feet bgs.
10								
15								

REMARKS: DT - Dual Tube
0/0 - Scan/Headspace
■ - Sample Interval

ThermoRetec
Smart Solutions. Positive Outcomes.

BORING LOG
B-9

1011 S.W. Klickitat Way
Suite #207
Seattle, Washington 98134
(206) 624-9349
www.thermoretec.com

PROJECT NO: *NEXUI-14929-100 Maryatt/Cintas Property*		CLIENT: *Nexus Properties, Inc.*
LOCATION: *Seattle, Washington; E of Room/Near Door*		DRILLING CO.: *TEG*
START DATE: *06/24/00* TIME:	BORE HOLE ID: *1.5 inches*	DRILLER: *Eric*
COMPLETION DATE: *06/24/00* TIME: *13:45*	BORING DEPTH: *14.0 feet bgs*	RIG TYPE: *Handheld*
WATER LEVEL DURING DRILLING: *12.0' bgs*	SURFACE ELEV.: *feet (MSL)*	METHOD: *Geoprobe*
DATE MEASURED: *06/24/00*	M. P. ELEVATION: *feet (MSL)*	LOGGED BY: *C. Alferness*

DEPTH (in feet)	SAMPLE DATA: TYPE	DEPTH	BLOWS/6"	% RECOVERY	PID (ppm)	U.S.C.S.	LITHOLOGY	SOIL DESCRIPTION
0	DT			50	7/4	AC		CONCRETE
						ML		SILT WITH SAND AND TRACE GRAVEL (FILL); Dark brown.
	DT			50	3/14			*2.0'–4.0'* – No gravel; with brick pieces; dry to moist.
	DT			80	50/150			*4.0'–6.0'* – No gravel; one piece white flat ceramic-like substance; dry to moist.
5	DT			5	20/25	NR		**NO RECOVERY:** Rock in sampler.
	DT			5	180/--	ML		SILT WITH SAND AND TRACE GRAVEL (FILL); As at 4.0 feet bgs; moist.
						NR		No more soil samples possible.
10								▽
								Total depth = 14.0 feet bgs.
15								

REMARKS: DT – Dual Tube
O/O – Scan/Headspace
■ – Sample Interval

BORING LOG
B-10

ThermoRetec
Smart Solutions. Positive Outcomes.
1011 S.W. Klickitat Way
Suite #207
Seattle, Washington 98134
(206) 624-9349
www.thermoretec.com

PROJECT NO: *NEXU1-14929-100 Maryatt/Cintas Property*		CLIENT: *Nexus Properties, Inc.*
LOCATION: *Seattle, Washington; SE of Boring B-2*		DRILLING CO.: *TEG*
START DATE: *06/24/00 TIME: 15:20*	BORE HOLE ID: *1.5 inches*	DRILLER: *Eric*
COMPLETION DATE: *06/24/00 TIME: 16:15*	BORING DEPTH: *14.0 feet bgs*	RIG TYPE: *Handheld*
WATER LEVEL DURING DRILLING: *11.5' bgs*	*SURFACE ELEV.: feet (MSL)*	METHOD: *Geoprobe*
DATE MEASURED: *06/24/00*	M. P. ELEVATION: *feet (MSL)*	LOGGED BY: *C. Alferness*

DEPTH (in feet)	SAMPLE DATA: TYPE	DEPTH	BLOWS/6"	% RECOVERY	PID (ppm)	U.S.C.S.	LITHOLOGY	SOIL DESCRIPTION
0	DT			50	0/0	AC		CONCRETE
						ML		SILT WITH SAND AND GRAVEL (FILL): Trace brick and glass.
	DT			90	0/0			*2.0'-3.0'* - No glass or brick.
						SP		SAND: Brown; medium-grained; trace silt and gravel; dry.
	DT			90	0/0			*4.0'-6.0'* - Grades fine- to medium-grained; loose.
5								
	DT			90	0/0			
						ML		SILT: Brown to dark brown, some mottling; moist; soft.
	DT			80	0/0	ML		SANDY SILT TO SILT: Very fine-grained sand; slightly moist.
10	DT			50	0/0			*10.0'-11.5'* - One sand lens; moist.
						GP		GRAVEL WITH SAND AND SILT: Dry to moist.
	DT			90	0/6	SP		GRAVELLY SAND: With occasional silt lens; moist to saturated.
15								Refusal. Total depth = 14.0 feet bgs.

REMARKS: DT - Dual Tube
0/0 - Scan/Headspace
■ - Sample Interval

Table 3: Water Level Measurements

Maryatt Industries, 773 Valley Street, Seattle, Washington

Well Number	Date Measured	Measuring Point Elevation (1)	Depth to Water (feet)	Water Level Elevation (1)
MW1	10/23/92	28.11	7.11	21.00
	10/24/92	28.11	7.15	20.96
	10/27/92	28.11	7.36	20.75
	10/28/92	28.11	7.38	20.73
MW2	10/23/92	30.86	10.00	20.86
	10/24/92	30.86	10.04	20.82
	10/27/92	30.86	10.13	20.73
	10/28/92	30.86	10.15	20.71
MW3	10/23/92	32.04	11.25	20.79
	10/24/92	32.04	11.29	20.75
	10/27/92	32.04	11.39	20.65
	10/28/92	32.04	11.41	20.63
MW4	10/24/92	40.94	21.99	18.95
	10/27/92	40.94	21.93	19.01
	10/28/92	40.94	21.93	19.01
MW5	10/28/92	47.20	22.89	24.31
MW6	10/28/92	35.39	17.85	17.54

FOOTNOTES

(1) = Elevation in feet relative to mean sea level.

ROUX

Project: Maryatt Industries 773 Valley Street, Seattle, Washington	Log of Well No. **MW1**
Date Started: 10/22/92 Completed: 10/22/92	Measuring Point Elevation (ft): 28.11 Total Depth (ft): 16.5
Logged By: T. Ramsden Checked By: BH	Water Level During Drilling (ft): 8.3 Stabilized (ft): 7.4
Drilling Co: Tacoma Pump & Drilling	Casing: Schedule 40 PVC Drill Bit Diameter (in): 10"
Drilling Method: Hollow-stem Auger	Perforation: 0.010 Slot from 14 ft to 4 ft
Drilling Equipment: Mobile B-56	Pack: 10-20 Sand from 15 ft to 3.5 ft
Sampler: Split Spoon	Seal: Bentonite from 3.5 ft to 1.5 ft
	Cement from 1.5 ft to 0 ft

Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OVM (ppm)	Recovery (%)	REMARKS
5	FILL 50% sand and silt 50% bricks, concrete blocks, railroad spikes, etc. Dark black, wet clay. Tarry appearance, no odor.				7 10 10	0	75	
10	Sandy SILT Red and black, fine grained sand, 15% fine gravel, very wet, no odor (Fill?)	SM			8 16 12		55	
15	SAND Grey-green, medium to coarse grained, 10% fine gravel, 15% clay mostly well rounded, saturated. SAND Medium to coarse, metallic gold colored biotite. Possible oily sheen on soil.	SW			23 28 34			
20								
25								
30								
35								

DRAFT

ROUX

Project: Maryatt Industries
773 Valley Street, Seattle, Washington

Log of Well No. MW2

Date Started: 10/22/92 Completed: 10/22/92

Logged By: T. Ramsden Checked By: BH

Drilling Co: Tacoma Pump & Drilling

Drilling Method: Hollow-stem Auger

Drilling Equipment: Mobile B-56

Sampler: Split Spoon

Measuring Point Elevation (ft): 30.86 Total Depth (ft): 15.0

Water Level During Drilling (ft): 10.6 Stabilized (ft): 10.2

Casing: Schedule 40 PVC Drill Bit Diameter (in): 10"

Perforation: 0.010 Slot from 15 ft to 5 ft

Pack: 10-20 Sand from 15 ft to 4 ft

Seal: Bentonite from 4 ft to 1.5 ft

Cement from 1.5 ft to 0 ft

Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OVM (ppm)	Recovery (%)	REMARKS
5	FILL Clay, sand, bricks, concrete blocks				4 5 8		95	
	SILT Medium greenish-tan, abundant orange mottling, moist, cohesive, no odor, <10% wood fragments.							
10	Sandy FILT Medium green to brown, very moist, cohesive, moderate hydrocarbon odor. (Fill?)	SM			4 6 8		70	
15	Silty SAND Mottled orange-brown and dark green, medium grained, saturated, weak hydrocarbon odor. (Fill?)						30	
20								
25								
30								
35								

DRAFT

Project: 26203W02 Roux Associates

ROUX

Project: Maryatt Industries
773 Valley Street, Seattle, Washington

Log of Well No. MW3

Date Started: 10/22/92 Completed: 10/22/92

Logged By: T. Ramsden Checked By: BH

Drilling Co: Tacoma Pump & Drilling

Drilling Method: Hollow-stem Auger

Drilling Equipment: Mobile B-56

Sampler: Split Spoon

Measuring Point Elevation (ft): 32.04 Total Depth (ft): 17.0

Water Level During Drilling (ft): 12.0 Stabilized (ft): 11.4

Casing: Schedule 40 PVC Drill Bit Diameter (in): 10"

Perforation: 0.010 Slot from 17 ft to 7 ft

Pack: 10-20 Sand from 17 ft to 6 ft

Seal: Bentonite from 6 ft to 1.5 ft

Cement from 1.5 ft to 0 ft

Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OVM (ppm)	Recovery (%)	REMARKS
5	Silty Sand Fill Light green-brown, moist, slightly cohesive, no odor.							
	Sandy Silt Fill Dark brown to green, very moist, cohesive, no odor.				10 14 10		30	
10	Silty Sand Fill Tan, fine to medium grained, <10% fine gravel, moist, cohesive, no odor				4 6 10		95	
15	Silt and Sand Fill Medium brown to black, broken glass fragments, some gravel, wet, cohesive, very weak hydrocarbon odor.				8 10 21		70	
20								
25								
30								
35								

DRAFT

ROUX

Project: Maryatt Industries
773 Valley Street, Seattle, Washington

Log of Well No. MW4

Date Started: 10/23/92 Completed: 10/23/92

Logged By: T. Ramsden Checked By: BH

Drilling Co: Tacoma Pump & Drilling

Drilling Method: Hollow-stem Auger

Drilling Equipment: Mobile B-56

Sampler: Split Spoon

Measuring Point Elevation (ft): 40.94 Total Depth (ft): 36.5

Water Level During Drilling (ft): 26.0 Stabilized (ft): 21.9

Casing: Schedule 40 PVC Drill Bit Diameter (in): 10"

Perforation: 0.010 Slot from 30 ft to 15 ft

Pack: 10-20 Sand from 30.5 ft to 12.5 ft

Seal: Bentonite from 12.5 ft to 2 ft

Cement from 2 ft to 0 ft

Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OVM (ppm)	Recovery (%)	REMARKS
5	FILL Brown silt, sand, gravel with large concrete blocks near surface.				44 50/2"		75	
		SM						
0	Silty SAND Medium grained.				50/2"		0	
5	Silty SAND Brown, 10% gravel up 1", moist, slightly loose, no odor.				20 50/4"	0	100	
20	Silty SAND Dark brown, 5-10% gravel, very moist, cohesive, no odo				25/2"		0	
		ML						
25	Sandy SILT Brown, <10% fine gravel, no odor, moist, cohesive.				50/4"		100	
30	Sandy SILT Gray-green, <5% fine gravel, very moist, hard, no odor.				50/6"		100	
		SP						
35	Silty SAND Greenish grey, medium coarse grained, <10% gravel up to 2", saturated no odor				58 43 50/4"		100	

DRAFT

Project: 26203W02 Roux Associates

ROUX

Project: Maryatt Industries
773 Valley Street, Seattle, Washington

Log of Well No. MW5

Date Started: 10/27/92	Completed: 10/27/92	Measuring Point Elevation (ft): 47.20	Total Depth (ft): 35.5
Logged By: B. Hull	Checked By: TR	Water Level During Drilling (ft): 26.0	Stabilized (ft): 22.9
Drilling Co: Tacoma Pump & Drilling		Casing: Schedule 40 PVC	Drill Bit Diameter (in): 10"
Drilling Method: Hollow-stem Auger		Perforation: 0.010 Slot	from 30 ft to 15 ft
Drilling Equipment: Mobile B-56		Pack: 10-20 Sand	from 30 ft to 13 ft
Sampler: Split Spoon		Seal: Bentonite	from 13 ft to 1 ft
		Cement	from 1 ft to 0 ft

Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OVM (ppm)	Recovery (%)	REMARKS
5	FILL Medium brown, 50% gravel, 30% silt, 20% sand, damp, no odor.				5 6 6	0	70	
10	As above, moist, no odor.				4 5 6	0	80	
15	Sandy Gravel Grey, moist, 50% gravel, 40% coarse sand, 10% silt, no odor.		GW		2 6 7	0	70	
20	Silty SAND Grey-brown, 60% fine sand 40% silt, hard packed, dry, no odor.		SM		22 10 14	0	80	
25	Silty sandy GRAVEL Dark grey, 60% gravel, 20% sand, 20% silt, moist, no odor.		GW		26 40	0	25	
30	As above, reddish brown, wet, no odor.				20 27 18	0	70	
35								

DRAFT

Project: 26203W02 — Roux Associates — Page 1 of 1

ROUX

Project: Maryatt Industries 773 Valley Street, Seattle, Washington	Log of Well No. MW6
Date Started: 10/27/92 Completed: 10/27/92	Measuring Point Elevation (ft): 35.39 Total Depth (ft): 22.0
Logged By: B. Hall Checked By: TR	Water Level During Drilling (ft): 17.0 Stabilized (ft.): 17.8
Drilling Co: Tacoma Pump & Drilling	Casing: Schedule 40 PVC Drill Bit Diameter (in): 10"
Drilling Method: Hollow-stem Auger	Perforation: 0.010 Slot from 22 ft to 12 ft
Drilling Equipment: Mobile B-56	Pack: 10-20 Sand from 22 ft to 10 ft
Sampler: Split Spoon	Seal: Bentonite from 10 ft to 2 ft
	Cement from 2 ft to 0 ft

Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OVM (ppm)	Recovery (%)	REMARKS
6	Medium brown, 50% gravel, 30% sand, 20% silt, brick fragments, damp, no odor.				11 11 15	0	50	
10	As above, abundant brick fragments.				22 24 18	0	50	
15	As above, grey, moist, no odor.				30 8 8	0	50	
20	As above, wet, no odor.				12 12 18	0	50	
25								
30								
35								

DRAFT

Project: 26203W02 Roux Associates Page 1 of 1

Attachment D

Analytical Data from the Under-Building Investigation

Analytical Resources, Incorporated
Analytical Chemists and Consultants

5 July 2000

Matt Arms
ThermoRetec, Inc.
1011 S.W. Klickitat Way
Suite 207
Seattle, WA 98134

RE: Client Project: NEXUS
ARI Job Nos. BU55, BU56

Dear Matt:

Please find enclosed the original chain of custody record and the final results for the samples from the project referenced above. Thirteen soil samples and one water sample were received on June 23, 2000. The samples were received intact. It was noted upon sample receipt that the bottle for the sample identified on the COC as "B-2-16" was labeled "B-2-15". The COC was used to identify this sample. Six soil samples were placed on hold as specified. The remaining samples were analyzed for VOAs as requested.

Sample B-2-16 was re-analyzed due to suspected carryover. The results for the re-analysis only have been submitted for this sample.

There were no further problems with these analyses.

Copies of these reports and all supporting data will remain on file. Should you have any questions, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
206/389-6150
<mark@arilabs.com>

cc: Files BU55, BU56

MDH/mdh

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ORGANIC COMPOUND
DATA REPORTING QUALIFIERS

U	Indicates the compound was undetected at the reported concentration. (Same as ND).
J	Indicates an estimated concentration when the value is less than the calculated reporting limit.
D	Indicates the surrogate/spike(s) was not detected, due to dilution of extract.
NR	Indicates the surrogate recovery cannot be reported due to matrix interference.
E	Indicates a value above the linear range of the detector. Sample dilution required.
S	Indicates no value reported due to saturation of the detector. Sample dilution required.
NA	Indicates compound not analyzed for.
M	Indicates an estimated value of analyte found and confirmed by analyst but with low spectral match.
B	Indicates possible/probable blank contamination. Flagged when the analyte is detected in the blank as well as the sample.
Y	Indicates raised reporting limit due to background interference or to activity on the instrument. Compound is still not detected at or above the raised level.

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample No: Method Blank

Lab Sample ID: 070600MB
LIMS ID: 00-10327
Matrix: Water
Data Release Authorized:
Reported: 07/06/00

QC Report No: BU63-ThermoRetec
Project: Nexus
NEXUI-14929
Date Sampled: NA
Date Received: NA

Instrument: FINN1
Date Analyzed: 07/06/00 10:42

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
74-87-3	Chloromethane	1.0 U
74-83-9	Bromomethane	1.0 U
75-01-4	Vinyl Chloride	1.0 U
75-00-3	Chloroethane	1.0 U
75-09-2	Methylene Chloride	2.0 U
67-64-1	Acetone	5.0 U
75-15-0	Carbon Disulfide	1.0 U
75-35-4	1,1-Dichloroethene	1.0 U
75-34-3	1,1-Dichloroethane	1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0 U
67-66-3	Chloroform	1.0 U
107-06-2	1,2-Dichloroethane	1.0 U
78-93-3	2-Butanone	5.0 U
71-55-6	1,1,1-Trichloroethane	1.0 U
56-23-5	Carbon Tetrachloride	1.0 U
108-05-4	Vinyl Acetate	5.0 U
75-27-4	Bromodichloromethane	1.0 U
78-87-5	1,2-Dichloropropane	1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0 U
79-01-6	Trichloroethene	1.0 U
124-48-1	Dibromochloromethane	1.0 U
79-00-5	1,1,2-Trichloroethane	1.0 U
71-43-2	Benzene	1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0 U
110-75-8	2-Chloroethylvinylether	5.0 U
75-25-2	Bromoform	1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0 U
591-78-6	2-Hexanone	5.0 U
127-18-4	Tetrachloroethene	1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U
108-88-3	Toluene	1.0 U
108-90-7	Chlorobenzene	1.0 U
100-41-4	Ethylbenzene	1.0 U
100-42-5	Styrene	1.0 U
75-69-4	Trichlorofluoromethane	1.0 U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.0 U
1330-20-7	m,p-Xylene	1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: Method Blank

Lab Sample ID: 070600MB
LIMS ID: 00-10327
Matrix: Water
Data Release Authorized:
Reported: 07/06/00

QC Report No: BU63-ThermoRetec
Project: Nexus
NEXUI-14929
Date Sampled: NA
Date Received: NA

Instrument: FINN1
Date Analyzed: 07/06/00 10:42

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
95-47-6	o-Xylene	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
107-02-8	Acrolein	50 U
74-88-4	Methyl Iodide	1.0 U
74-96-4	Bromoethane	2.0 U
107-13-1	Acrylonitrile	5.0 U
563-58-6	1,1-Dichloropropene	1.0 U
74-95-3	Dibromomethane	1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U
96-18-4	1,2,3-Trichloropropane	3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0 U
87-68-3	Hexachlorobutadiene	5.0 U
106-93-4	Ethylene Dibromide	1.0 U
74-97-5	Bromochloromethane	1.0 U
594-20-7	2,2-Dichloropropane	1.0 U
142-28-9	1,3-Dichloropropane	1.0 U
98-82-8	Isopropylbenzene	1.0 U
103-65-1	n-Propylbenzene	1.0 U
108-86-1	Bromobenzene	1.0 U
95-49-8	2-Chlorotoluene	1.0 U
106-43-4	4-Chlorotoluene	1.0 U
98-06-6	tert-Butylbenzene	1.0 U
135-98-8	sec-Butylbenzene	1.0 U
99-87-6	4-Isopropyltoluene	1.0 U
104-51-8	n-Butylbenzene	1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0 U
91-20-3	Naphthalene	5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.3%
d8-Toluene	102%
Bromofluorobenzene	95.8%
d4-1,2-Dichlorobenzene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-6-14.5

Lab Sample ID: BU63B
LIMS ID: 00-10325
Matrix: Water
Data Release Authorized:
Reported: 07/06/00

QC Report No: BU63-ThermoRetec
Project: Nexus
NEXUI-14929
Date Sampled: 06/24/00
Date Received: 06/24/00

Instrument: FINN1
Date Analyzed: 06/30/00 21:42

Sample Amount: 0.10 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
95-47-6	o-Xylene	50 U
95-50-1	1,2-Dichlorobenzene	50 U
541-73-1	1,3-Dichlorobenzene	50 U
106-46-7	1,4-Dichlorobenzene	50 U
107-02-8	Acrolein	2500 U
74-88-4	Methyl Iodide	50 U
74-96-4	Bromoethane	100 U
107-13-1	Acrylonitrile	250 U
563-58-6	1,1-Dichloropropene	50 U
74-95-3	Dibromomethane	50 U
630-20-6	1,1,1,2-Tetrachloroethane	50 U
96-12-8	1,2-Dibromo-3-chloropropane	250 U
96-18-4	1,2,3-Trichloropropane	150 U
110-57-6	trans-1,4-Dichloro-2-butene	250 U
108-67-8	1,3,5-Trimethylbenzene	50 U
95-63-6	1,2,4-Trimethylbenzene	50 U
87-68-3	Hexachlorobutadiene	250 U
106-93-4	Ethylene Dibromide	50 U
74-97-5	Bromochloromethane	50 U
594-20-7	2,2-Dichloropropane	50 U
142-28-9	1,3-Dichloropropane	50 U
98-82-8	Isopropylbenzene	50 U
103-65-1	n-Propylbenzene	50 U
108-86-1	Bromobenzene	50 U
95-49-8	2-Chlorotoluene	50 U
106-43-4	4-Chlorotoluene	50 U
98-06-6	tert-Butylbenzene	50 U
135-98-8	sec-Butylbenzene	50 U
99-87-6	4-Isopropyltoluene	50 U
104-51-8	n-Butylbenzene	50 U
120-82-1	1,2,4-Trichlorobenzene	250 U
91-20-3	Naphthalene	250 U
87-61-6	1,2,3-Trichlorobenzene	250 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	108%
d8-Toluene	104%
Bromofluorobenzene	99.3%
d4-1,2-Dichlorobenzene	99.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-6-14.5

Lab Sample ID: BU63B
LIMS ID: 00-10325
Matrix: Water
Data Release Authorized:
Reported: 07/06/00

QC Report No: BU63-ThermoRetec
Project: Nexus
NEXUI-14929
Date Sampled: 06/24/00
Date Received: 06/24/00

Instrument: FINN1
Date Analyzed: 06/30/00 21:42

Sample Amount: 0.10 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
74-87-3	Chloromethane	50 U
74-83-9	Bromomethane	50 U
75-01-4	Vinyl Chloride	50 U
75-00-3	Chloroethane	50 U
75-09-2	Methylene Chloride	100 U
67-64-1	Acetone	250 U
75-15-0	Carbon Disulfide	50 U
75-35-4	1,1-Dichloroethene	50 U
75-34-3	1,1-Dichloroethane	50 U
156-60-5	trans-1,2-Dichloroethene	50 U
156-59-2	**cis-1,2-Dichloroethene**	**57**
67-66-3	Chloroform	50 U
107-06-2	1,2-Dichloroethane	50 U
78-93-3	2-Butanone	250 U
71-55-6	1,1,1-Trichloroethane	50 U
56-23-5	Carbon Tetrachloride	50 U
108-05-4	Vinyl Acetate	250 U
75-27-4	Bromodichloromethane	50 U
78-87-5	1,2-Dichloropropane	50 U
10061-01-5	cis-1,3-Dichloropropene	50 U
79-01-6	**Trichloroethene**	**54**
124-48-1	Dibromochloromethane	50 U
79-00-5	1,1,2-Trichloroethane	50 U
71-43-2	Benzene	50 U
10061-02-6	trans-1,3-Dichloropropene	50 U
110-75-8	2-Chloroethylvinylether	250 U
75-25-2	Bromoform	50 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	250 U
591-78-6	2-Hexanone	250 U
127-18-4	**Tetrachloroethene**	**6800**
79-34-5	1,1,2,2-Tetrachloroethane	50 U
108-88-3	Toluene	50 U
108-90-7	Chlorobenzene	50 U
100-41-4	Ethylbenzene	50 U
100-42-5	Styrene	50 U
75-69-4	Trichlorofluoromethane	50 U
76-13-1	1,1,2-Trichlorotrifluoroethane	100 U
1330-20-7	m,p-Xylene	50 U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample No: Method Blank

Lab Sample ID: 063000MB
LIMS ID: 00-10324
Matrix: Water
Data Release Authorized:
Reported: 07/06/00

QC Report No: BU63-ThermoRetec
Project: Nexus
NEXUI-14929
Date Sampled: NA
Date Received: NA

Instrument: FINN1
Date Analyzed: 06/30/00 13:12

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
74-87-3	Chloromethane	1.0 U
74-83-9	Bromomethane	1.0 U
75-01-4	Vinyl Chloride	1.0 U
75-00-3	Chloroethane	1.0 U
75-09-2	Methylene Chloride	2.0 U
67-64-1	Acetone	5.0 U
75-15-0	Carbon Disulfide	1.0 U
75-35-4	1,1-Dichloroethene	1.0 U
75-34-3	1,1-Dichloroethane	1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0 U
67-66-3	Chloroform	1.0 U
107-06-2	1,2-Dichloroethane	1.0 U
78-93-3	2-Butanone	5.0 U
71-55-6	1,1,1-Trichloroethane	1.0 U
56-23-5	Carbon Tetrachloride	1.0 U
108-05-4	Vinyl Acetate	5.0 U
75-27-4	Bromodichloromethane	1.0 U
78-87-5	1,2-Dichloropropane	1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0 U
79-01-6	Trichloroethene	1.0 U
124-48-1	Dibromochloromethane	1.0 U
79-00-5	1,1,2-Trichloroethane	1.0 U
71-43-2	Benzene	1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0 U
110-75-8	2-Chloroethylvinylether	5.0 U
75-25-2	Bromoform	1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0 U
591-78-6	2-Hexanone	5.0 U
127-18-4	Tetrachloroethene	1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U
108-88-3	Toluene	1.0 U
108-90-7	Chlorobenzene	1.0 U
100-41-4	Ethylbenzene	1.0 U
100-42-5	Styrene	1.0 U
75-69-4	Trichlorofluoromethane	1.0 U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.0 U
1330-20-7	m,p-Xylene	1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: Method Blank

Lab Sample ID: 063000MB
LIMS ID: 00-10324
Matrix: Water
Data Release Authorized:
Reported: 07/06/00

QC Report No: BU63-ThermoRetec
Project: Nexus
NEXUI-14929
Date Sampled: NA
Date Received: NA

Instrument: FINN1
Date Analyzed: 06/30/00 13:12

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
95-47-6	o-Xylene	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
107-02-8	Acrolein	50 U
74-88-4	Methyl Iodide	1.0 U
74-96-4	Bromoethane	2.0 U
107-13-1	Acrylonitrile	5.0 U
563-58-6	1,1-Dichloropropene	1.0 U
74-95-3	Dibromomethane	1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U
96-18-4	1,2,3-Trichloropropane	3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0 U
87-68-3	Hexachlorobutadiene	5.0 U
106-93-4	Ethylene Dibromide	1.0 U
74-97-5	Bromochloromethane	1.0 U
594-20-7	2,2-Dichloropropane	1.0 U
142-28-9	1,3-Dichloropropane	1.0 U
98-82-8	Isopropylbenzene	1.0 U
103-65-1	n-Propylbenzene	1.0 U
108-86-1	Bromobenzene	1.0 U
95-49-8	2-Chlorotoluene	1.0 U
106-43-4	4-Chlorotoluene	1.0 U
98-06-6	tert-Butylbenzene	1.0 U
135-98-8	sec-Butylbenzene	1.0 U
99-87-6	4-Isopropyltoluene	1.0 U
104-51-8	n-Butylbenzene	1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0 U
91-20-3	Naphthalene	5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.5%
d8-Toluene	101%
Bromofluorobenzene	96.6%
d4-1,2-Dichlorobenzene	98.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-7-12.5

Lab Sample ID: BU63A
LIMS ID: 00-10324
Matrix: Water
Data Release Authorized: *AB*
Reported: 07/06/00

QC Report No: BU63-ThermoRetec
Project: Nexus
NEXUI-14929
Date Sampled: 06/24/00
Date Received: 06/24/00

Instrument: FINN1
Date Analyzed: 06/30/00 21:16

Sample Amount: 0.10 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
74-87-3	Chloromethane	50 U
74-83-9	Bromomethane	50 U
75-01-4	Vinyl Chloride	50 U
75-00-3	Chloroethane	50 U
75-09-2	Methylene Chloride	100 U
67-64-1	Acetone	250 U
75-15-0	Carbon Disulfide	50 U
75-35-4	1,1-Dichloroethene	50 U
75-34-3	1,1-Dichloroethane	50 U
156-60-5	trans-1,2-Dichloroethene	50 U
156-59-2	**cis-1,2-Dichloroethene**	**880**
67-66-3	Chloroform	50 U
107-06-2	1,2-Dichloroethane	50 U
78-93-3	2-Butanone	250 U
71-55-6	1,1,1-Trichloroethane	50 U
56-23-5	Carbon Tetrachloride	50 U
108-05-4	Vinyl Acetate	250 U
75-27-4	Bromodichloromethane	50 U
78-87-5	1,2-Dichloropropane	50 U
10061-01-5	cis-1,3-Dichloropropene	50 U
79-01-6	**Trichloroethene**	**310**
124-48-1	Dibromochloromethane	50 U
79-00-5	1,1,2-Trichloroethane	50 U
71-43-2	Benzene	50 U
10061-02-6	trans-1,3-Dichloropropene	50 U
110-75-8	2-Chloroethylvinylether	250 U
75-25-2	Bromoform	50 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	250 U
591-78-6	2-Hexanone	250 U
127-18-4	**Tetrachloroethene**	**16000 E**
79-34-5	1,1,2,2-Tetrachloroethane	50 U
108-88-3	Toluene	50 U
108-90-7	Chlorobenzene	50 U
100-41-4	Ethylbenzene	50 U
100-42-5	Styrene	50 U
75-69-4	Trichlorofluoromethane	50 U
76-13-1	1,1,2-Trichlorotrifluoroethane	100 U
1330-20-7	m,p-Xylene	50 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-7-12.5

Lab Sample ID: BU63A
LIMS ID: 00-10324
Matrix: Water
Data Release Authorized:
Reported: 07/06/00

QC Report No: BU63-ThermoRetec
Project: Nexus
NEXUI-14929
Date Sampled: 06/24/00
Date Received: 06/24/00

Instrument: FINN1
Date Analyzed: 06/30/00 21:16

Sample Amount: 0.10 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
95-47-6	o-Xylene	50 U
95-50-1	1,2-Dichlorobenzene	50 U
541-73-1	1,3-Dichlorobenzene	50 U
106-46-7	1,4-Dichlorobenzene	50 U
107-02-8	Acrolein	2500 U
74-88-4	Methyl Iodide	50 U
74-96-4	Bromoethane	100 U
107-13-1	Acrylonitrile	250 U
563-58-6	1,1-Dichloropropene	50 U
74-95-3	Dibromomethane	50 U
630-20-6	1,1,1,2-Tetrachloroethane	50 U
96-12-8	1,2-Dibromo-3-chloropropane	250 U
96-18-4	1,2,3-Trichloropropane	150 U
110-57-6	trans-1,4-Dichloro-2-butene	250 U
108-67-8	1,3,5-Trimethylbenzene	50 U
95-63-6	1,2,4-Trimethylbenzene	50 U
87-68-3	Hexachlorobutadiene	250 U
106-93-4	Ethylene Dibromide	50 U
74-97-5	Bromochloromethane	50 U
594-20-7	2,2-Dichloropropane	50 U
142-28-9	1,3-Dichloropropane	50 U
98-82-8	Isopropylbenzene	50 U
103-65-1	n-Propylbenzene	50 U
108-86-1	Bromobenzene	50 U
95-49-8	2-Chlorotoluene	50 U
106-43-4	4-Chlorotoluene	50 U
98-06-6	tert-Butylbenzene	50 U
135-98-8	sec-Butylbenzene	50 U
99-87-6	4-Isopropyltoluene	50 U
104-51-8	n-Butylbenzene	50 U
120-82-1	1,2,4-Trichlorobenzene	250 U
91-20-3	Naphthalene	250 U
87-61-6	1,2,3-Trichlorobenzene	250 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	108%
d8-Toluene	102%
Bromofluorobenzene	95.8%
d4-1,2-Dichlorobenzene	99.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-7-12.5
DILUTION

Lab Sample ID: BU63A-DL
LIMS ID: 00-10324
Matrix: Water
Data Release Authorized:
Reported: 07/06/00

QC Report No: BU63-ThermoRetec
Project: Nexus
NEXUI-14929
Date Sampled: 06/24/00
Date Received: 06/24/00

Instrument: FINN1
Date Analyzed: 07/05/00 13:08

Sample Amount: 0.020 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
74-87-3	Chloromethane	250 U
74-83-9	Bromomethane	250 U
75-01-4	Vinyl Chloride	250 U
75-00-3	Chloroethane	250 U
75-09-2	Methylene Chloride	500 U
67-64-1	Acetone	1200 U
75-15-0	Carbon Disulfide	250 U
75-35-4	1,1-Dichloroethene	250 U
75-34-3	1,1-Dichloroethane	250 U
156-60-5	trans-1,2-Dichloroethene	250 U
156-59-2	**cis-1,2-Dichloroethene**	**720**
67-66-3	Chloroform	250 U
107-06-2	1,2-Dichloroethane	250 U
78-93-3	2-Butanone	1200 U
71-55-6	1,1,1-Trichloroethane	250 U
56-23-5	Carbon Tetrachloride	250 U
108-05-4	Vinyl Acetate	1200 U
75-27-4	Bromodichloromethane	250 U
78-87-5	1,2-Dichloropropane	250 U
10061-01-5	cis-1,3-Dichloropropene	250 U
79-01-6	**Trichloroethene**	**260**
124-48-1	Dibromochloromethane	250 U
79-00-5	1,1,2-Trichloroethane	250 U
71-43-2	Benzene	250 U
10061-02-6	trans-1,3-Dichloropropene	250 U
110-75-8	2-Chloroethylvinylether	1200 U
75-25-2	Bromoform	250 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1200 U
591-78-6	2-Hexanone	1200 U
127-18-4	**Tetrachloroethene**	**21000**
79-34-5	1,1,2,2-Tetrachloroethane	250 U
108-88-3	Toluene	250 U
108-90-7	Chlorobenzene	250 U
100-41-4	Ethylbenzene	250 U
100-42-5	Styrene	250 U
75-69-4	Trichlorofluoromethane	250 U
76-13-1	1,1,2-Trichlorotrifluoroethane	500 U
1330-20-7	m,p-Xylene	250 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-7-12.5
DILUTION

Lab Sample ID: BU63A-DL
LIMS ID: 00-10324
Matrix: Water
Data Release Authorized:
Reported: 07/06/00

QC Report No: BU63-ThermoRetec
Project: Nexus
NEXUI-14929
Date Sampled: 06/24/00
Date Received: 06/24/00

Instrument: FINN1
Date Analyzed: 07/05/00 13:08

Sample Amount: 0.020 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
95-47-6	o-Xylene	250 U
95-50-1	1,2-Dichlorobenzene	250 U
541-73-1	1,3-Dichlorobenzene	250 U
106-46-7	1,4-Dichlorobenzene	250 U
107-02-8	Acrolein	12000 U
74-88-4	Methyl Iodide	250 U
74-96-4	Bromoethane	500 U
107-13-1	Acrylonitrile	1200 U
563-58-6	1,1-Dichloropropene	250 U
74-95-3	Dibromomethane	250 U
630-20-6	1,1,1,2-Tetrachloroethane	250 U
96-12-8	1,2-Dibromo-3-chloropropane	1200 U
96-18-4	1,2,3-Trichloropropane	750 U
110-57-6	trans-1,4-Dichloro-2-butene	1200 U
108-67-8	1,3,5-Trimethylbenzene	250 U
95-63-6	1,2,4-Trimethylbenzene	250 U
87-68-3	Hexachlorobutadiene	1200 U
106-93-4	Ethylene Dibromide	250 U
74-97-5	Bromochloromethane	250 U
594-20-7	2,2-Dichloropropane	250 U
142-28-9	1,3-Dichloropropane	250 U
98-82-8	Isopropylbenzene	250 U
103-65-1	n-Propylbenzene	250 U
108-86-1	Bromobenzene	250 U
95-49-8	2-Chlorotoluene	250 U
106-43-4	4-Chlorotoluene	250 U
98-06-6	tert-Butylbenzene	250 U
135-98-8	sec-Butylbenzene	250 U
99-87-6	4-Isopropyltoluene	250 U
104-51-8	n-Butylbenzene	250 U
120-82-1	1,2,4-Trichlorobenzene	1200 U
91-20-3	Naphthalene	1200 U
87-61-6	1,2,3-Trichlorobenzene	1200 U

Volatile Surrogate Recovery	
d4-1,2-Dichloroethane	97.9%
d8-Toluene	101%
Bromofluorobenzene	92.1%
d4-1,2-Dichlorobenzene	99.9%

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ORGANIC COMPOUND
DATA REPORTING QUALIFIERS

U	Indicates the compound was undetected at the reported concentration. (Same as ND).
J	Indicates an estimated concentration when the value is less than the calculated reporting limit.
D	Indicates the surrogate/spike(s) was not detected, due to dilution of extract.
NR	Indicates the surrogate recovery cannot be reported due to matrix interference.
E	Indicates a value above the linear range of the detector. Sample dilution required.
S	Indicates no value reported due to saturation of the detector. Sample dilution required.
NA	Indicates compound not analyzed for.
M	Indicates an estimated value of analyte found and confirmed by analyst but with low spectral match.
B	Indicates possible/probable blank contamination. Flagged when the analyte is detected in the blank as well as the sample.
Y	Indicates raised reporting limit due to background interference or to activity on the instrument. Compound is still not detected at or above the raised level.

333 Ninth Avenue North • Seattle WA 98109-5187 • **206-621-6490** • **206-621-7523** fax

Chain of Custody Record

ARI = receiving lab
proj: NEXUS, NEXUI-14929
Samplers: Cara Alferness

Send Results to:
Matt Arms

DATE	TIME	SAMPLE No.	No. of cont.	Sample Analysis
6/24/00	959	B-6-8-10	1	Archive
6/24/00	920	B-6-15	1	"
	1020	B-7-2	1	"
	1128	B-8-6	1	"
	1200	B-9-0	1	"
	1205	B-9-2	1	"
	1507	B-4c-0	1	"
	1540	B-10-6	1	"
~~ES~~	1612	~~B3~~ Wt-comp	1	?

Cara Alferness 6/24/00 1700

6/24/00 1800

8995

CHAIN OF CUSTODY RECORD 5.5

PROJ. NO.	PROJECT NAME: NEXUS-14929 NEXUS
	SAMPLERS: CARA ALFERNESS
	RECEIVING LABORATORY: ARI

SEND RESULTS TO: Matt Arms

00-10323
00-10328
BU63

1 wk turnaround

LAB I.D. NO.	DATE	TIME	SAMPLE NO.	NO. OF CONTAINERS	VOA (water)	VOA (soil)	Archive	REMARKS
	6/24	1050	B-7-12.5	3	✓			
	6/24	940	B-6-14.5	3	✓			
	6/24	1141	B-8-8	3	✓			
	6/24	1340	B-9-12	3	✓			
	6/24	405	B-10-12.5	3	✓			
		955	B-6-6	1		✓		
		920	B-6-12	1		✓		
		930	B-6-18	1		✓		
		1024	B-7-6	1		✓		
		1128	B-8-4	1		✓		
		1134	B-8-8	1		✓		
		1215	B-9-8	1		✓		
		1206	B-9-4	1		✓		
		1600	B-10-12	1		✓		

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Cara Alferness	6/24 1800				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time		
			6/23/10 1800		

Shipper Information

REMEDIATION TECHNOLOGIES
1011 S.W. Klickitat Way
Suite 207
Seattle, WA 98134
(206) 624-9349

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: Method Blank

Lab Sample ID: 062800MB
LIMS ID: 00-10282
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: NA
Date Received: NA

Instrument: FINN5
Date Analyzed: 06/28/00 10:48

Sample Amount: 5.00 g dry Wt Equiv
Percent Moisture: NA

CAS Number	Analyte	ug/kg
95-47-6	o-Xylene	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
107-02-8	Acrolein	50 U
74-88-4	Methyl Iodide	1.0 U
74-96-4	Bromoethane	2.0 U
107-13-1	Acrylonitrile	5.0 U
563-58-6	1,1-Dichloropropene	1.0 U
74-95-3	Dibromomethane	1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U
96-18-4	1,2,3-Trichloropropane	2.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0 U
87-68-3	Hexachlorobutadiene	5.0 U
106-93-4	Ethylene Dibromide	1.0 U
74-97-5	Bromochloromethane	1.0 U
594-20-7	2,2-Dichloropropane	1.0 U
142-28-9	1,3-Dichloropropane	1.0 U
98-82-8	Isopropylbenzene	1.0 U
103-65-1	n-Propylbenzene	1.0 U
108-86-1	Bromobenzene	1.0 U
95-49-8	2-Chlorotoluene	1.0 U
106-43-4	4-Chlorotoluene	1.0 U
98-06-6	tert-Butylbenzene	1.0 U
135-98-8	sec-Butylbenzene	1.0 U
99-87-6	4-Isopropyltoluene	1.0 U
104-51-8	n-Butylbenzene	2.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0 U
91-20-3	Naphthalene	5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0 U

Volatile Surrogate Recovery	
d4-1,2-Dichloroethane	119%
d8-Toluene	97.9%
Bromofluorobenzene	101%
d4-1,2-Dichlorobenzene	99.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: Method Blank

Lab Sample ID: 062900MB
LIMS ID: 00-10285
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: NA
Date Received: NA

Instrument: FINN5
Date Analyzed: 06/29/00 12:35

Sample Amount: 5.00 g dry Wt Equiv
Percent Moisture: NA

CAS Number	Analyte	ug/kg
74-87-3	Chloromethane	1.0 U
74-83-9	Bromomethane	1.0 U
75-01-4	Vinyl Chloride	1.0 U
75-00-3	Chloroethane	1.0 U
75-09-2	Methylene Chloride	3.0 U
67-64-1	**Acetone**	**4.5 J**
75-15-0	Carbon Disulfide	1.0 U
75-35-4	1,1-Dichloroethene	1.0 U
75-34-3	1,1-Dichloroethane	1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0 U
67-66-3	Chloroform	1.0 U
107-06-2	1,2-Dichloroethane	1.0 U
78-93-3	2-Butanone	5.0 U
71-55-6	1,1,1-Trichloroethane	1.0 U
56-23-5	Carbon Tetrachloride	1.0 U
108-05-4	Vinyl Acetate	5.0 U
75-27-4	Bromodichloromethane	1.0 U
78-87-5	1,2-Dichloropropane	1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0 U
79-01-6	Trichloroethene	1.0 U
124-48-1	Dibromochloromethane	1.0 U
79-00-5	1,1,2-Trichloroethane	1.0 U
71-43-2	Benzene	1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0 U
110-75-8	2-Chloroethylvinylether	5.0 U
75-25-2	Bromoform	1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0 U
591-78-6	2-Hexanone	5.0 U
127-18-4	Tetrachloroethene	1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U
108-88-3	Toluene	1.0 U
108-90-7	Chlorobenzene	1.0 U
100-41-4	Ethylbenzene	1.0 U
100-42-5	Styrene	1.0 U
75-69-4	Trichlorofluoromethane	1.0 U
76-13-1	1,1,2-Trichlorotrifluoroethane	1.0 U
1330-20-7	m,p-Xylene	1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: Method Blank

Lab Sample ID: 062900MB
LIMS ID: 00-10285
Matrix: Soil
Data Release Authorized: AD
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: NA
Date Received: NA

Instrument: FINN5
Date Analyzed: 06/29/00 12:35

Sample Amount: 5.00 g dry Wt Equiv
Percent Moisture: NA

CAS Number	Analyte	ug/kg
95-47-6	o-Xylene	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
107-02-8	Acrolein	50 U
74-88-4	Methyl Iodide	1.0 U
74-96-4	Bromoethane	2.0 U
107-13-1	Acrylonitrile	5.0 U
563-58-6	1,1-Dichloropropene	1.0 U
74-95-3	Dibromomethane	1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U
96-18-4	1,2,3-Trichloropropane	2.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0 U
87-68-3	Hexachlorobutadiene	5.0 U
106-93-4	Ethylene Dibromide	1.0 U
74-97-5	Bromochloromethane	1.0 U
594-20-7	2,2-Dichloropropane	1.0 U
142-28-9	1,3-Dichloropropane	1.0 U
98-82-8	Isopropylbenzene	1.0 U
103-65-1	n-Propylbenzene	1.0 U
108-86-1	Bromobenzene	1.0 U
95-49-8	2-Chlorotoluene	1.0 U
106-43-4	4-Chlorotoluene	1.0 U
98-06-6	tert-Butylbenzene	1.0 U
135-98-8	sec-Butylbenzene	1.0 U
99-87-6	4-Isopropyltoluene	1.0 U
104-51-8	n-Butylbenzene	2.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0 U
91-20-3	Naphthalene	5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	97.2%
Bromofluorobenzene	98.5%
d4-1,2-Dichlorobenzene	98.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: Method Blank

Lab Sample ID: 063000MB
LIMS ID: 00-10283
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: NA
Date Received: NA

Instrument: FINN5
Date Analyzed: 06/30/00 17:05

Sample Amount: 5.00 g dry Wt Equiv
Percent Moisture: NA

CAS Number	Analyte	ug/kg
74-87-3	Chloromethane	1.0 U
74-83-9	Bromomethane	1.0 U
75-01-4	Vinyl Chloride	1.0 U
75-00-3	Chloroethane	1.0 U
75-09-2	Methylene Chloride	3.0 U
67-64-1	**Acetone**	**4.0 J**
75-15-0	Carbon Disulfide	1.0 U
75-35-4	1,1-Dichloroethene	1.0 U
75-34-3	1,1-Dichloroethane	1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0 U
67-66-3	Chloroform	1.0 U
107-06-2	1,2-Dichloroethane	1.0 U
78-93-3	2-Butanone	5.0 U
71-55-6	1,1,1-Trichloroethane	1.0 U
56-23-5	Carbon Tetrachloride	1.0 U
108-05-4	Vinyl Acetate	5.0 U
75-27-4	Bromodichloromethane	1.0 U
78-87-5	1,2-Dichloropropane	1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0 U
79-01-6	Trichloroethene	1.0 U
124-48-1	Dibromochloromethane	1.0 U
79-00-5	1,1,2-Trichloroethane	1.0 U
71-43-2	Benzene	1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0 U
110-75-8	2-Chloroethylvinylether	5.0 U
75-25-2	Bromoform	1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0 U
591-78-6	2-Hexanone	5.0 U
127-18-4	Tetrachloroethene	1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U
108-88-3	Toluene	1.0 U
108-90-7	Chlorobenzene	1.0 U
100-41-4	Ethylbenzene	1.0 U
100-42-5	Styrene	1.0 U
75-69-4	Trichlorofluoromethane	1.0 U
76-13-1	1,1,2-Trichlorotrifluoroethane	1.0 U
1330-20-7	m,p-Xylene	1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: Method Blank

Lab Sample ID: 063000MB
LIMS ID: 00-10283
Matrix: Soil
Data Release Authorized: *AP*
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: NA
Date Received: NA

Instrument: FINN5
Date Analyzed: 06/30/00 17:05

Sample Amount: 5.00 g dry Wt Equiv
Percent Moisture: NA

CAS Number	Analyte	ug/kg
95-47-6	o-Xylene	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
107-02-8	Acrolein	50 U
74-88-4	Methyl Iodide	1.0 U
74-96-4	Bromoethane	2.0 U
107-13-1	Acrylonitrile	5.0 U
563-58-6	1,1-Dichloropropene	1.0 U
74-95-3	Dibromomethane	1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U
96-18-4	1,2,3-Trichloropropane	2.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0 U
87-68-3	Hexachlorobutadiene	5.0 U
106-93-4	Ethylene Dibromide	1.0 U
74-97-5	Bromochloromethane	1.0 U
594-20-7	2,2-Dichloropropane	1.0 U
142-28-9	1,3-Dichloropropane	1.0 U
98-82-8	Isopropylbenzene	1.0 U
103-65-1	n-Propylbenzene	1.0 U
108-86-1	Bromobenzene	1.0 U
95-49-8	2-Chlorotoluene	1.0 U
106-43-4	4-Chlorotoluene	1.0 U
98-06-6	tert-Butylbenzene	1.0 U
135-98-8	sec-Butylbenzene	1.0 U
99-87-6	4-Isopropyltoluene	1.0 U
104-51-8	n-Butylbenzene	2.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0 U
91-20-3	Naphthalene	5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0 U

Volatile Surrogate Recovery	
d4-1,2-Dichloroethane	111%
d8-Toluene	97.8%
Bromofluorobenzene	95.8%
d4-1,2-Dichlorobenzene	99.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-2-6.5

Lab Sample ID: BU55A
LIMS ID: 00-10282
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/28/00 15:34

Sample Amount: 4.53 g dry Wt
Percent Moisture: 8.3%

CAS Number	Analyte	ug/kg
74-87-3	Chloromethane	1.1 U
74-83-9	Bromomethane	1.1 U
75-01-4	Vinyl Chloride	1.1 U
75-00-3	Chloroethane	1.1 U
75-09-2	Methylene Chloride	3.3 U
67-64-1	**Acetone**	**6.7 B**
75-15-0	Carbon Disulfide	1.1 U
75-35-4	1,1-Dichloroethene	1.1 U
75-34-3	1,1-Dichloroethane	1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1 U
156-59-2	**cis-1,2-Dichloroethene**	**11**
67-66-3	Chloroform	1.1 U
107-06-2	1,2-Dichloroethane	1.1 U
78-93-3	2-Butanone	5.5 U
71-55-6	1,1,1-Trichloroethane	1.1 U
56-23-5	Carbon Tetrachloride	1.1 U
108-05-4	Vinyl Acetate	5.5 U
75-27-4	Bromodichloromethane	1.1 U
78-87-5	1,2-Dichloropropane	1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1 U
79-01-6	**Trichloroethene**	**2.0**
124-48-1	Dibromochloromethane	1.1 U
79-00-5	1,1,2-Trichloroethane	1.1 U
71-43-2	Benzene	1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1 U
110-75-8	2-Chloroethylvinylether	5.5 U
75-25-2	Bromoform	1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.5 U
591-78-6	2-Hexanone	5.5 U
127-18-4	**Tetrachloroethene**	**17**
79-34-5	1,1,2,2-Tetrachloroethane	1.1 U
108-88-3	Toluene	1.1 U
108-90-7	Chlorobenzene	1.1 U
100-41-4	Ethylbenzene	1.1 U
100-42-5	Styrene	1.1 U
75-69-4	Trichlorofluoromethane	1.1 U
76-13-1	1,1,2-Trichlorotrifluoroethane	1.1 U
1330-20-7	m,p-Xylene	1.1 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-2-6.5

Lab Sample ID: BU55A
LIMS ID: 00-10282
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/28/00 15:34

Sample Amount: 4.53 g dry Wt
Percent Moisture: 8.3%

CAS Number	Analyte	ug/kg
95-47-6	o-Xylene	1.1 U
95-50-1	1,2-Dichlorobenzene	1.1 U
541-73-1	1,3-Dichlorobenzene	1.1 U
106-46-7	1,4-Dichlorobenzene	1.1 U
107-02-8	Acrolein	55 U
74-88-4	Methyl Iodide	1.1 U
74-96-4	Bromoethane	2.2 U
107-13-1	Acrylonitrile	5.5 U
563-58-6	1,1-Dichloropropene	1.1 U
74-95-3	Dibromomethane	1.1 U
630-20-6	1,1,1,2-Tetrachloroethane	1.1 U
96-12-8	1,2-Dibromo-3-chloropropane	5.5 U
96-18-4	1,2,3-Trichloropropane	2.2 U
110-57-6	trans-1,4-Dichloro-2-butene	5.5 U
108-67-8	1,3,5-Trimethylbenzene	1.1 U
95-63-6	1,2,4-Trimethylbenzene	1.1 U
87-68-3	Hexachlorobutadiene	5.5 U
106-93-4	Ethylene Dibromide	1.1 U
74-97-5	Bromochloromethane	1.1 U
594-20-7	2,2-Dichloropropane	1.1 U
142-28-9	1,3-Dichloropropane	1.1 U
98-82-8	Isopropylbenzene	1.1 U
103-65-1	n-Propylbenzene	1.1 U
108-86-1	Bromobenzene	1.1 U
95-49-8	2-Chlorotoluene	1.1 U
106-43-4	4-Chlorotoluene	1.1 U
98-06-6	tert-Butylbenzene	1.1 U
135-98-8	sec-Butylbenzene	1.1 U
99-87-6	4-Isopropyltoluene	1.1 U
104-51-8	n-Butylbenzene	2.2 U
120-82-1	1,2,4-Trichlorobenzene	5.5 U
91-20-3	Naphthalene	5.5 U
87-61-6	1,2,3-Trichlorobenzene	5.5 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	125%
d8-Toluene	100%
Bromofluorobenzene	105%
d4-1,2-Dichlorobenzene	100%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-2-11

Lab Sample ID: BU55B
LIMS ID: 00-10283
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus

Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/28/00 16:00

Sample Amount: 4.07 g dry Wt
Percent Moisture: 17.1%

CAS Number	Analyte	ug/kg
74-87-3	Chloromethane	1.2 U
74-83-9	Bromomethane	1.2 U
75-01-4	Vinyl Chloride	1.2 U
75-00-3	Chloroethane	1.2 U
75-09-2	Methylene Chloride	3.7 U
67-64-1	**Acetone**	**7.5 B**
75-15-0	Carbon Disulfide	1.2 U
75-35-4	1,1-Dichloroethene	1.2 U
75-34-3	1,1-Dichloroethane	1.2 U
156-60-5	**trans-1,2-Dichloroethene**	**3.7**
156-59-2	**cis-1,2-Dichloroethene**	**820 E**
67-66-3	Chloroform	1.2 U
107-06-2	1,2-Dichloroethane	1.2 U
78-93-3	2-Butanone	6.1 U
71-55-6	1,1,1-Trichloroethane	1.2 U
56-23-5	Carbon Tetrachloride	1.2 U
108-05-4	Vinyl Acetate	6.1 U
75-27-4	Bromodichloromethane	1.2 U
78-87-5	1,2-Dichloropropane	1.2 U
10061-01-5	cis-1,3-Dichloropropene	1.2 U
79-01-6	**Trichloroethene**	**85**
124-48-1	Dibromochloromethane	1.2 U
79-00-5	1,1,2-Trichloroethane	1.2 U
71-43-2	Benzene	1.2 U
10061-02-6	trans-1,3-Dichloropropene	1.2 U
110-75-8	2-Chloroethylvinylether	6.1 U
75-25-2	Bromoform	1.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.1 U
591-78-6	2-Hexanone	6.1 U
127-18-4	**Tetrachloroethene**	**1,200 E**
79-34-5	1,1,2,2-Tetrachloroethane	1.2 U
108-88-3	Toluene	1.2 U
108-90-7	Chlorobenzene	1.2 U
100-41-4	Ethylbenzene	1.2 U
100-42-5	Styrene	1.2 U
75-69-4	Trichlorofluoromethane	1.2 U
76-13-1	1,1,2-Trichlorotrifluoroethane	1.2 U
1330-20-7	m,p-Xylene	1.2 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-2-11

Lab Sample ID: BU55B
LIMS ID: 00-10283
Matrix: Soil
Data Release Authorized: [signature]
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/28/00 16:00

Sample Amount: 4.07 g dry Wt
Percent Moisture: 17.1%

CAS Number	Analyte	ug/kg
95-47-6	o-Xylene	1.2 U
95-50-1	1,2-Dichlorobenzene	1.2 U
541-73-1	1,3-Dichlorobenzene	1.2 U
106-46-7	1,4-Dichlorobenzene	1.2 U
107-02-8	Acrolein	61 U
74-88-4	Methyl Iodide	1.2 U
74-96-4	Bromoethane	2.5 U
107-13-1	Acrylonitrile	6.1 U
563-58-6	1,1-Dichloropropene	1.2 U
74-95-3	Dibromomethane	1.2 U
630-20-6	1,1,1,2-Tetrachloroethane	1.2 U
96-12-8	1,2-Dibromo-3-chloropropane	6.1 U
96-18-4	1,2,3-Trichloropropane	2.5 U
110-57-6	trans-1,4-Dichloro-2-butene	6.1 U
108-67-8	1,3,5-Trimethylbenzene	1.2 U
95-63-6	1,2,4-Trimethylbenzene	1.2 U
87-68-3	Hexachlorobutadiene	6.1 U
106-93-4	Ethylene Dibromide	1.2 U
74-97-5	Bromochloromethane	1.2 U
594-20-7	2,2-Dichloropropane	1.2 U
142-28-9	1,3-Dichloropropane	1.2 U
98-82-8	Isopropylbenzene	1.2 U
103-65-1	n-Propylbenzene	1.2 U
108-86-1	Bromobenzene	1.2 U
95-49-8	2-Chlorotoluene	1.2 U
106-43-4	4-Chlorotoluene	1.2 U
98-06-6	tert-Butylbenzene	1.2 U
135-98-8	sec-Butylbenzene	1.2 U
99-87-6	4-Isopropyltoluene	1.2 U
104-51-8	n-Butylbenzene	2.5 U
120-82-1	1,2,4-Trichlorobenzene	6.1 U
91-20-3	Naphthalene	6.1 U
87-61-6	1,2,3-Trichlorobenzene	6.1 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	125%
d8-Toluene	99.3%
Bromofluorobenzene	104%
d4-1,2-Dichlorobenzene	99.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-2-11
REANALYSIS

Lab Sample ID: BU55B-RE
LIMS ID: 00-10283
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/30/00 22:01

Sample Amount: 0.46 g dry Wt
Percent Moisture: 17.1%

CAS Number	Analyte	ug/kg
74-87-3	Chloromethane	11 U
74-83-9	Bromomethane	11 U
75-01-4	Vinyl Chloride	11 U
75-00-3	Chloroethane	11 U
75-09-2	Methylene Chloride	33 U
67-64-1	**Acetone**	**55 B**
75-15-0	Carbon Disulfide	11 U
75-35-4	1,1-Dichloroethene	11 U
75-34-3	1,1-Dichloroethane	11 U
156-60-5	trans-1,2-Dichloroethene	11 U
156-59-2	**cis-1,2-Dichloroethene**	**640**
67-66-3	Chloroform	11 U
107-06-2	1,2-Dichloroethane	11 U
78-93-3	2-Butanone	55 U
71-55-6	1,1,1-Trichloroethane	11 U
56-23-5	Carbon Tetrachloride	11 U
108-05-4	Vinyl Acetate	55 U
75-27-4	Bromodichloromethane	11 U
78-87-5	1,2-Dichloropropane	11 U
10061-01-5	cis-1,3-Dichloropropene	11 U
79-01-6	**Trichloroethene**	**50**
124-48-1	Dibromochloromethane	11 U
79-00-5	1,1,2-Trichloroethane	11 U
71-43-2	Benzene	11 U
10061-02-6	trans-1,3-Dichloropropene	11 U
110-75-8	2-Chloroethylvinylether	55 U
75-25-2	Bromoform	11 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	55 U
591-78-6	2-Hexanone	55 U
127-18-4	**Tetrachloroethene**	**920**
79-34-5	1,1,2,2-Tetrachloroethane	11 U
108-88-3	Toluene	11 U
108-90-7	Chlorobenzene	11 U
100-41-4	Ethylbenzene	11 U
100-42-5	Styrene	11 U
75-69-4	Trichlorofluoromethane	11 U
76-13-1	1,1,2-Trichlorotrifluoroethane	11 U
1330-20-7	m,p-Xylene	11 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-2-11
REANALYSIS

Lab Sample ID: BU55B-RE
LIMS ID: 00-10283
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/30/00 22:01

Sample Amount: 0.46 g dry Wt
Percent Moisture: 17.1%

CAS Number	Analyte	ug/kg
95-47-6	o-Xylene	11 U
95-50-1	1,2-Dichlorobenzene	11 U
541-73-1	1,3-Dichlorobenzene	11 U
106-46-7	1,4-Dichlorobenzene	11 U
107-02-8	Acrolein	550 U
74-88-4	Methyl Iodide	11 U
74-96-4	Bromoethane	22 U
107-13-1	Acrylonitrile	55 U
563-58-6	1,1-Dichloropropene	11 U
74-95-3	Dibromomethane	11 U
630-20-6	1,1,1,2-Tetrachloroethane	11 U
96-12-8	1,2-Dibromo-3-chloropropane	55 U
96-18-4	1,2,3-Trichloropropane	22 U
110-57-6	trans-1,4-Dichloro-2-butene	55 U
108-67-8	1,3,5-Trimethylbenzene	11 U
95-63-6	1,2,4-Trimethylbenzene	11 U
87-68-3	Hexachlorobutadiene	55 U
106-93-4	Ethylene Dibromide	11 U
74-97-5	Bromochloromethane	11 U
594-20-7	2,2-Dichloropropane	11 U
142-28-9	1,3-Dichloropropane	11 U
98-82-8	Isopropylbenzene	11 U
103-65-1	n-Propylbenzene	11 U
108-86-1	Bromobenzene	11 U
95-49-8	2-Chlorotoluene	11 U
106-43-4	4-Chlorotoluene	11 U
98-06-6	tert-Butylbenzene	11 U
135-98-8	sec-Butylbenzene	11 U
99-87-6	4-Isopropyltoluene	11 U
104-51-8	n-Butylbenzene	22 U
120-82-1	1,2,4-Trichlorobenzene	55 U
91-20-3	Naphthalene	55 U
87-61-6	1,2,3-Trichlorobenzene	55 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	115%
d8-Toluene	97.2%
Bromofluorobenzene	99.2%
d4-1,2-Dichlorobenzene	103%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-2-16

Lab Sample ID: BU55C
LIMS ID: 00-10284
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/30/00 18:06

Sample Amount: 4.63 g dry Wt
Percent Moisture: 7.4%

CAS Number	Analyte	ug/kg
74-87-3	Chloromethane	1.1 U
74-83-9	Bromomethane	1.1 U
75-01-4	Vinyl Chloride	1.1 U
75-00-3	Chloroethane	1.1 U
75-09-2	Methylene Chloride	3.2 U
67-64-1	**Acetone**	**6.8 B**
75-15-0	Carbon Disulfide	1.1 U
75-35-4	1,1-Dichloroethene	1.1 U
75-34-3	1,1-Dichloroethane	1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1 U
156-59-2	**cis-1,2-Dichloroethene**	**7.5**
67-66-3	Chloroform	1.1 U
107-06-2	1,2-Dichloroethane	1.1 U
78-93-3	2-Butanone	5.4 U
71-55-6	1,1,1-Trichloroethane	1.1 U
56-23-5	Carbon Tetrachloride	1.1 U
108-05-4	Vinyl Acetate	5.4 U
75-27-4	Bromodichloromethane	1.1 U
78-87-5	1,2-Dichloropropane	1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1 U
79-01-6	**Trichloroethene**	**1.1**
124-48-1	Dibromochloromethane	1.1 U
79-00-5	1,1,2-Trichloroethane	1.1 U
71-43-2	Benzene	1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1 U
110-75-8	2-Chloroethylvinylether	5.4 U
75-25-2	Bromoform	1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.4 U
591-78-6	2-Hexanone	5.4 U
127-18-4	**Tetrachloroethene**	**49**
79-34-5	1,1,2,2-Tetrachloroethane	1.1 U
108-88-3	Toluene	1.1 U
108-90-7	Chlorobenzene	1.1 U
100-41-4	Ethylbenzene	1.1 U
100-42-5	Styrene	1.1 U
75-69-4	Trichlorofluoromethane	1.1 U
76-13-1	1,1,2-Trichlorotrifluoroethane	1.1 U
1330-20-7	m,p-Xylene	1.1 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-2-16

Lab Sample ID: BU55C
LIMS ID: 00-10284
Matrix: Soil
Data Release Authorized: JAB
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/30/00 18:06

Sample Amount: 4.63 g dry Wt
Percent Moisture: 7.4%

CAS Number	Analyte	ug/kg
95-47-6	o-Xylene	1.1 U
95-50-1	1,2-Dichlorobenzene	1.1 U
541-73-1	1,3-Dichlorobenzene	1.1 U
106-46-7	1,4-Dichlorobenzene	1.1 U
107-02-8	Acrolein	54 U
74-88-4	Methyl Iodide	1.1 U
74-96-4	Bromoethane	2.2 U
107-13-1	Acrylonitrile	5.4 U
563-58-6	1,1-Dichloropropene	1.1 U
74-95-3	Dibromomethane	1.1 U
630-20-6	1,1,1,2-Tetrachloroethane	1.1 U
96-12-8	1,2-Dibromo-3-chloropropane	5.4 U
96-18-4	1,2,3-Trichloropropane	2.2 U
110-57-6	trans-1,4-Dichloro-2-butene	5.4 U
108-67-8	1,3,5-Trimethylbenzene	1.1 U
95-63-6	1,2,4-Trimethylbenzene	1.1 U
87-68-3	Hexachlorobutadiene	5.4 U
106-93-4	Ethylene Dibromide	1.1 U
74-97-5	Bromochloromethane	1.1 U
594-20-7	2,2-Dichloropropane	1.1 U
142-28-9	1,3-Dichloropropane	1.1 U
98-82-8	Isopropylbenzene	1.1 U
103-65-1	n-Propylbenzene	1.1 U
108-86-1	Bromobenzene	1.1 U
95-49-8	2-Chlorotoluene	1.1 U
106-43-4	4-Chlorotoluene	1.1 U
98-06-6	tert-Butylbenzene	1.1 U
135-98-8	sec-Butylbenzene	1.1 U
99-87-6	4-Isopropyltoluene	1.1 U
104-51-8	n-Butylbenzene	2.2 U
120-82-1	1,2,4-Trichlorobenzene	5.4 U
91-20-3	Naphthalene	5.4 U
87-61-6	1,2,3-Trichlorobenzene	5.4 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	115%
d8-Toluene	99.8%
Bromofluorobenzene	97.6%
d4-1,2-Dichlorobenzene	98.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-2-16
MATRIX SPIKE

Lab Sample ID: BU55C-MS
LIMS ID: 00-10284
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/30/00 18:32

Sample Amount: 4.39 g dry Wt
Percent Moisture: 7.4%

CAS Number	Analyte	ug/kg
74-87-3	Chloromethane	---
74-83-9	Bromomethane	---
75-01-4	Vinyl Chloride	---
75-00-3	Chloroethane	---
75-09-2	Methylene Chloride	---
67-64-1	Acetone	---
75-15-0	Carbon Disulfide	---
75-35-4	1,1-Dichloroethene	---
75-34-3	1,1-Dichloroethane	---
156-60-5	trans-1,2-Dichloroethene	---
156-59-2	cis-1,2-Dichloroethene	---
67-66-3	Chloroform	---
107-06-2	1,2-Dichloroethane	---
78-93-3	2-Butanone	---
71-55-6	1,1,1-Trichloroethane	---
56-23-5	Carbon Tetrachloride	---
108-05-4	Vinyl Acetate	---
75-27-4	Bromodichloromethane	---
78-87-5	1,2-Dichloropropane	---
10061-01-5	cis-1,3-Dichloropropene	---
79-01-6	Trichloroethene	---
124-48-1	Dibromochloromethane	---
79-00-5	1,1,2-Trichloroethane	---
71-43-2	Benzene	---
10061-02-6	trans-1,3-Dichloropropene	---
110-75-8	2-Chloroethylvinylether	---
75-25-2	Bromoform	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	---
591-78-6	2-Hexanone	---
127-18-4	Tetrachloroethene	---
79-34-5	1,1,2,2-Tetrachloroethane	---
108-88-3	Toluene	---
108-90-7	Chlorobenzene	---
100-41-4	Ethylbenzene	---
100-42-5	Styrene	---
75-69-4	Trichlorofluoromethane	---
76-13-1	1,1,2-Trichlorotrifluoroethane	---
1330-20-7	m,p-Xylene	---

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-2-16
MATRIX SPIKE

Lab Sample ID: BU55C-MS
LIMS ID: 00-10284
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/30/00 18:32

Sample Amount: 4.39 g dry Wt
Percent Moisture: 7.4%

CAS Number	Analyte	ug/kg
95-47-6	o-Xylene	---
95-50-1	1,2-Dichlorobenzene	---
541-73-1	1,3-Dichlorobenzene	---
106-46-7	1,4-Dichlorobenzene	---
107-02-8	Acrolein	---
74-88-4	Methyl Iodide	---
74-96-4	Bromoethane	---
107-13-1	Acrylonitrile	---
563-58-6	1,1-Dichloropropene	---
74-95-3	Dibromomethane	---
630-20-6	1,1,1,2-Tetrachloroethane	---
96-12-8	1,2-Dibromo-3-chloropropane	---
96-18-4	1,2,3-Trichloropropane	---
110-57-6	trans-1,4-Dichloro-2-butene	---
108-67-8	1,3,5-Trimethylbenzene	---
95-63-6	1,2,4-Trimethylbenzene	---
87-68-3	Hexachlorobutadiene	---
106-93-4	Ethylene Dibromide	---
74-97-5	Bromochloromethane	---
594-20-7	2,2-Dichloropropane	---
142-28-9	1,3-Dichloropropane	---
98-82-8	Isopropylbenzene	---
103-65-1	n-Propylbenzene	---
108-86-1	Bromobenzene	---
95-49-8	2-Chlorotoluene	---
106-43-4	4-Chlorotoluene	---
98-06-6	tert-Butylbenzene	---
135-98-8	sec-Butylbenzene	---
99-87-6	4-Isopropyltoluene	---
104-51-8	n-Butylbenzene	---
120-82-1	1,2,4-Trichlorobenzene	---
91-20-3	Naphthalene	---
87-61-6	1,2,3-Trichlorobenzene	---

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%
d8-Toluene	98.9%
Bromofluorobenzene	96.2%
d4-1,2-Dichlorobenzene	99.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-2-16
SPIKE DUPLICATE

Lab Sample ID: BU55C-MSD
LIMS ID: 00-10284
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/30/00 18:58

Sample Amount: 4.40 g dry Wt
Percent Moisture: 7.4%

CAS Number	Analyte	ug/kg
74-87-3	Chloromethane	---
74-83-9	Bromomethane	---
75-01-4	Vinyl Chloride	---
75-00-3	Chloroethane	---
75-09-2	Methylene Chloride	---
67-64-1	Acetone	---
75-15-0	Carbon Disulfide	---
75-35-4	1,1-Dichloroethene	---
75-34-3	1,1-Dichloroethane	---
156-60-5	trans-1,2-Dichloroethene	---
156-59-2	cis-1,2-Dichloroethene	---
67-66-3	Chloroform	---
107-06-2	1,2-Dichloroethane	---
78-93-3	2-Butanone	---
71-55-6	1,1,1-Trichloroethane	---
56-23-5	Carbon Tetrachloride	---
108-05-4	Vinyl Acetate	---
75-27-4	Bromodichloromethane	---
78-87-5	1,2-Dichloropropane	---
10061-01-5	cis-1,3-Dichloropropene	---
79-01-6	Trichloroethene	---
124-48-1	Dibromochloromethane	---
79-00-5	1,1,2-Trichloroethane	---
71-43-2	Benzene	---
10061-02-6	trans-1,3-Dichloropropene	---
110-75-8	2-Chloroethylvinylether	---
75-25-2	Bromoform	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	---
591-78-6	2-Hexanone	---
127-18-4	Tetrachloroethene	---
79-34-5	1,1,2,2-Tetrachloroethane	---
108-88-3	Toluene	---
108-90-7	Chlorobenzene	---
100-41-4	Ethylbenzene	---
100-42-5	Styrene	---
75-69-4	Trichlorofluoromethane	---
76-13-1	1,1,2-Trichlorotrifluoroethane	---
1330-20-7	m,p-Xylene	---

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS
Page 2 of 2

Sample No: B-2-16
SPIKE DUPLICATE

Lab Sample ID: BU55C-MSD
LIMS ID: 00-10284
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/30/00 18:58

Sample Amount: 4.40 g dry Wt
Percent Moisture: 7.4%

CAS Number	Analyte	ug/kg
95-47-6	o-Xylene	---
95-50-1	1,2-Dichlorobenzene	---
541-73-1	1,3-Dichlorobenzene	---
106-46-7	1,4-Dichlorobenzene	---
107-02-8	Acrolein	---
74-88-4	Methyl Iodide	---
74-96-4	Bromoethane	---
107-13-1	Acrylonitrile	---
563-58-6	1,1-Dichloropropene	---
74-95-3	Dibromomethane	---
630-20-6	1,1,1,2-Tetrachloroethane	---
96-12-8	1,2-Dibromo-3-chloropropane	---
96-18-4	1,2,3-Trichloropropane	---
110-57-6	trans-1,4-Dichloro-2-butene	---
108-67-8	1,3,5-Trimethylbenzene	---
95-63-6	1,2,4-Trimethylbenzene	---
87-68-3	Hexachlorobutadiene	---
106-93-4	Ethylene Dibromide	---
74-97-5	Bromochloromethane	---
594-20-7	2,2-Dichloropropane	---
142-28-9	1,3-Dichloropropane	---
98-82-8	Isopropylbenzene	---
103-65-1	n-Propylbenzene	---
108-86-1	Bromobenzene	---
95-49-8	2-Chlorotoluene	---
106-43-4	4-Chlorotoluene	---
98-06-6	tert-Butylbenzene	---
135-98-8	sec-Butylbenzene	---
99-87-6	4-Isopropyltoluene	---
104-51-8	n-Butylbenzene	---
120-82-1	1,2,4-Trichlorobenzene	---
91-20-3	Naphthalene	---
87-61-6	1,2,3-Trichlorobenzene	---

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%
d8-Toluene	96.9%
Bromofluorobenzene	97.3%
d4-1,2-Dichlorobenzene	99.2%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: BU55C
LIMS ID: 00-10284
Matrix: Soil

Sample No: B-2-16
QC Report No: BU55-ThermoRetec
Project: Nexus

Date Received: 06/23/00

Data Release Authorized:
Reported: 07/03/00

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
Date Analyzed: 06/30/00

CONSTITUENT		SAMPLE VALUE	SPIKE VALUE	SPIKE AMT	% RECOVERY	RPD
MATRIX SPIKE						
Chloromethane	<	1.1	38.5	56.9	67.6%	
Bromomethane	<	1.1	55.1	56.9	96.8%	
Vinyl Chloride	<	1.1	47.0	56.9	82.5%	
Chloroethane	<	1.1	51.7	56.9	90.8%	
Methylene Chloride	<	3.2	56.4	56.9	99.0%	
Acetone		6.8	320	285	110%	
Carbon Disulfide	<	1.1	71.3	56.9	125%	
1,1-Dichloroethene	<	1.1	47.7	56.9	83.8%	
1,1-Dichloroethane	<	1.1	55.0	56.9	96.6%	
trans-1,2-Dichloroethene	<	1.1	54.3	56.9	95.4%	
cis-1,2-Dichloroethene		7.5	67.4	56.9	105%	
Chloroform	<	1.1	59.0	56.9	104%	
1,2-Dichloroethane	<	1.1	58.0	56.9	102%	
2-Butanone	<	5.4	303	285	106%	
1,1,1-Trichloroethane	<	1.1	54.9	56.9	96.4%	
Carbon Tetrachloride	<	1.1	53.2	56.9	93.4%	
Vinyl Acetate	<	5.4	48.7	56.9	85.5%	
Bromodichloromethane	<	1.1	57.5	56.9	101%	
1,2-Dichloropropane	<	1.1	63.9	56.9	112%	
cis-1,3-Dichloropropene	<	1.1	56.0	56.9	98.3%	
Trichloroethene		1.1	56.9	56.9	98.0%	
Dibromochloromethane	<	1.1	58.0	56.9	102%	
1,1,2-Trichloroethane	<	1.1	59.8	56.9	105%	
Benzene	<	1.1	58.0	56.9	102%	
trans-1,3-Dichloropropene	<	1.1	55.6	56.9	97.6%	
2-Chloroethylvinylether	<	5.4	60.4	56.9	106%	
Bromoform	<	1.1	57.2	56.9	100%	
4-Methyl-2-Pentanone (MIBK)	<	5.4	286	285	100%	
2-Hexanone	<	5.4	286	285	100%	
Tetrachloroethene		49.4	108	56.9	103%	
1,1,2,2-Tetrachloroethane	<	1.1	60.0	56.9	105%	
Toluene	<	1.1	54.9	56.9	96.4%	
Chlorobenzene	<	1.1	55.4	56.9	97.3%	
Ethylbenzene	<	1.1	53.3	56.9	93.6%	
Styrene	<	1.1	54.6	56.9	95.9%	
Trichlorofluoromethane	<	1.1	45.2	56.9	79.4%	

Reported in ug/kg-dry-Wt

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: BU55C
LIMS ID: 00-10284
Matrix: Soil

Sample No: B-2-16
QC Report No: BU55-ThermoRetec
Project: Nexus

Date Received: 06/23/00

Data Release Authorized:
Reported: 07/03/00

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
Date Analyzed: 06/30/00

CONSTITUENT		SAMPLE VALUE	SPIKE VALUE	SPIKE AMT	% RECOVERY	RPD
MATRIX SPIKE						
1,1,2-Trichlorotrifluoroethan	<	1.1	53.8	56.9	94.5%	
m,p-Xylene	<	1.1	110	114	96.6%	
O-Xylene	<	1.1	55.7	56.9	97.8%	
1,2-Dichlorobenzene	<	1.1	55.1	56.9	96.8%	
1,3-Dichlorobenzene	<	1.1	53.9	56.9	94.6%	
1,4-Dichlorobenzene	<	1.1	54.8	56.9	96.2%	
Acrolein	<	54.0	281	285	98.7%	
Methyl Iodide	<	1.1	60.5	56.9	106%	
Bromoethane	<	2.2	63.1	56.9	111%	
Acrylonitrile	<	5.4	60.1	56.9	106%	
1,1-Dichloropropene	<	1.1	57.5	56.9	101%	
Dibromomethane	<	1.1	59.3	56.9	104%	
1,1,1,2-Tetrachloroethane	<	1.1	57.6	56.9	101%	
1,2-Dibromo-3-chloropropane	<	5.4	60.3	56.9	106%	
1,2,3-Trichloropropane	<	2.2	60.0	56.9	105%	
trans-1,4-Dichloro-2-butene	<	5.4	54.4	56.9	95.5%	
1,3,5-Trimethylbenzene	<	1.1	56.2	56.9	98.7%	
1,2,4-Trimethylbenzene	<	1.1	55.1	56.9	96.8%	
Hexachlorobutadiene	<	5.4	52.8	56.9	92.7%	
Ethylene Dibromide	<	1.1	58.5	56.9	103%	
Bromochloromethane	<	1.1	59.6	56.9	105%	
2,2-Dichloropropane	<	1.1	56.0	56.9	98.3%	
1,3-Dichloropropane	<	1.1	60.4	56.9	106%	
Isopropylbenzene	<	1.1	57.4	56.9	101%	
n-Propylbenzene	<	1.1	53.5	56.9	93.9%	
Bromobenzene	<	1.1	56.6	56.9	99.4%	
2-Chlorotoluene	<	1.1	54.9	56.9	96.4%	
4-Chlorotoluene	<	1.1	54.7	56.9	96.1%	
tert-Butylbenzene	<	1.1	56.2	56.9	98.7%	
sec-Butylbenzene	<	1.1	55.8	56.9	98.0%	
4-Isopropyltoluene	<	1.1	55.2	56.9	96.9%	
n-Butylbenzene	<	2.2	52.5	56.9	92.2%	
1,2,4-Trichlorobenzene	<	5.4	50.8	56.9	89.2%	
Naphthalene	<	5.4	58.2	56.9	102%	
1,2,3-Trichlorobenzene	<	5.4	53.3	56.9	93.6%	

Reported in ug/kg-dry-Wt

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: BU55C
LIMS ID: 00-10284
Matrix: Soil

Sample No: B-2-16
QC Report No: BU55-ThermoRetec
Project: Nexus

Date Received: 06/23/00

Data Release Authorized:
Reported: 07/03/00

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
Date Analyzed: 06/30/00

CONSTITUENT	SAMPLE VALUE	SPIKE VALUE	SPIKE AMT	% RECOVERY	RPD
MATRIX SPIKE DUPLICATE					
Chloromethane	< 1.1	40.3	56.8	70.9%	4.8%
Bromomethane	< 1.1	55.7	56.8	98.0%	1.3%
Vinyl Chloride	< 1.1	46.2	56.8	81.3%	1.5%
Chloroethane	< 1.1	51.4	56.8	90.5%	0.3%
Methylene Chloride	< 3.2	56.8	56.8	100%	1.0%
Acetone	6.8	310	284	107%	2.8%
Carbon Disulfide	< 1.1	75.2	56.8	132%	5.3%
1,1-Dichloroethene	< 1.1	47.7	56.8	84.0%	0.3%
1,1-Dichloroethane	< 1.1	55.2	56.8	97.2%	0.6%
trans-1,2-Dichloroethene	< 1.1	53.0	56.8	93.3%	2.2%
cis-1,2-Dichloroethene	7.5	66.8	56.8	104%	1.1%
Chloroform	< 1.1	56.0	56.8	98.6%	4.9%
1,2-Dichloroethane	< 1.1	55.0	56.8	96.8%	5.1%
2-Butanone	< 5.4	300	284	106%	0.4%
1,1,1-Trichloroethane	< 1.1	52.5	56.8	92.4%	4.2%
Carbon Tetrachloride	< 1.1	49.9	56.8	87.8%	6.[illegible]
Vinyl Acetate	< 5.4	48.3	56.8	85.0%	0.
Bromodichloromethane	< 1.1	52.7	56.8	92.8%	8.[illegible]
1,2-Dichloropropane	< 1.1	59.9	56.8	105%	6.6%
cis-1,3-Dichloropropene	< 1.1	52.8	56.8	92.9%	5.7%
Trichloroethene	1.1	53.3	56.8	91.9%	6.4%
Dibromochloromethane	< 1.1	54.8	56.8	96.4%	5.5%
1,1,2-Trichloroethane	< 1.1	55.5	56.8	97.7%	7.2%
Benzene	< 1.1	54.1	56.8	95.2%	6.7%
trans-1,3-Dichloropropene	< 1.1	50.9	56.8	89.6%	8.6%
2-Chloroethylvinylether	< 5.4	55.6	56.8	97.9%	8.0%
Bromoform	< 1.1	54.0	56.8	95.0%	5.6%
4-Methyl-2-Pentanone (MIBK)	< 5.4	276	284	97.2%	3.3%
2-Hexanone	< 5.4	288	284	101%	0.6%
Tetrachloroethene	49.4	105	56.8	97.9%	5.0%
1,1,2,2-Tetrachloroethane	< 1.1	59.3	56.8	104%	1.3%
Toluene	< 1.1	51.1	56.8	89.9%	7.0%
Chlorobenzene	< 1.1	52.2	56.8	91.9%	5.7%
Ethylbenzene	< 1.1	51.1	56.8	89.9%	4.0%
Styrene	< 1.1	51.7	56.8	91.0%	5.2%
Trichlorofluoromethane	< 1.1	45.3	56.8	79.7%	0.4%

Reported in ug/kg-dry-Wt

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: BU55C
LIMS ID: 00-10284
Matrix: Soil

Sample No: B-2-16
QC Report No: BU55-ThermoRetec
Project: Nexus

Date Received: 06/23/00

Data Release Authorized: GMB
Reported: 07/03/00

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
Date Analyzed: 06/30/00

CONSTITUENT		SAMPLE VALUE	SPIKE VALUE	SPIKE AMT	% RECOVERY	RPD
MATRIX SPIKE DUPLICATE						
1,1,2-Trichlorotrifluoroethan	<	1.1	58.0	56.8	102%	7.7%
m,p-Xylene	<	1.1	104	114	91.5%	5.4%
O-Xylene	<	1.1	52.2	56.8	91.9%	6.2%
1,2-Dichlorobenzene	<	1.1	52.4	56.8	92.2%	4.8%
1,3-Dichlorobenzene	<	1.1	50.8	56.8	89.4%	5.7%
1,4-Dichlorobenzene	<	1.1	51.5	56.8	90.6%	6.0%
Acrolein	<	54.0	286	284	101%	2.3%
Methyl Iodide	<	1.1	60.7	56.8	107%	0.7%
Bromoethane	<	2.2	63.9	56.8	112%	1.1%
Acrylonitrile	<	5.4	58.1	56.8	102%	3.4%
1,1-Dichloropropene	<	1.1	54.1	56.8	95.2%	5.9%
Dibromomethane	<	1.1	55.5	56.8	97.7%	6.4%
1,1,1,2-Tetrachloroethane	<	1.1	53.0	56.8	93.3%	8.1%
1,2-Dibromo-3-chloropropane	<	5.4	61.4	56.8	108%	2.0%
1,2,3-Trichloropropane	<	2.2	56.8	56.8	100%	5.2%
trans-1,4-Dichloro-2-butene	<	5.4	50.9	56.8	89.6%	6.4%
1,3,5-Trimethylbenzene	<	1.1	52.0	56.8	91.5%	7.6%
1,2,4-Trimethylbenzene	<	1.1	52.4	56.8	92.2%	4.8%
Hexachlorobutadiene	<	5.4	53.8	56.8	94.7%	2.1%
Ethylene Dibromide	<	1.1	54.5	56.8	95.9%	6.9%
Bromochloromethane	<	1.1	58.3	56.8	103%	1.6%
2,2-Dichloropropane	<	1.1	53.9	56.8	94.9%	3.6%
1,3-Dichloropropane	<	1.1	58.6	56.8	103%	2.9%
Isopropylbenzene	<	1.1	52.8	56.8	92.9%	8.2%
n-Propylbenzene	<	1.1	50.7	56.8	89.2%	5.2%
Bromobenzene	<	1.1	51.2	56.8	90.1%	9.8%
2-Chlorotoluene	<	1.1	53.5	56.8	94.2%	2.3%
4-Chlorotoluene	<	1.1	50.2	56.8	88.4%	8.3%
tert-Butylbenzene	<	1.1	52.4	56.8	92.2%	6.8%
sec-Butylbenzene	<	1.1	52.6	56.8	92.6%	5.7%
4-Isopropyltoluene	<	1.1	51.7	56.8	91.0%	6.3%
n-Butylbenzene	<	2.2	50.9	56.8	89.6%	2.8%
1,2,4-Trichlorobenzene	<	5.4	52.0	56.8	91.5%	2.5%
Naphthalene	<	5.4	62.5	56.8	110%	7.4%
1,2,3-Trichlorobenzene	<	5.4	56.6	56.8	99.6%	6.2%

Reported in ug/kg-dry-Wt

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-1-13

Lab Sample ID: BU55E
LIMS ID: 00-10285
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/29/00 15:07

Sample Amount: 4.24 g dry Wt
Percent Moisture: 14.3%

CAS Number	Analyte	ug/kg
74-87-3	Chloromethane	1.2 U
74-83-9	Bromomethane	1.2 U
75-01-4	Vinyl Chloride	1.2 U
75-00-3	Chloroethane	1.2 U
75-09-2	Methylene Chloride	3.5 U
67-64-1	**Acetone**	**34 B**
75-15-0	Carbon Disulfide	1.2 U
75-35-4	1,1-Dichloroethene	1.2 U
75-34-3	1,1-Dichloroethane	1.2 U
156-60-5	trans-1,2-Dichloroethene	1.2 U
156-59-2	**cis-1,2-Dichloroethene**	**2.1**
67-66-3	Chloroform	1.2 U
107-06-2	1,2-Dichloroethane	1.2 U
78-93-3	2-Butanone	5.9 U
71-55-6	1,1,1-Trichloroethane	1.2 U
56-23-5	Carbon Tetrachloride	1.2 U
108-05-4	Vinyl Acetate	5.9 U
75-27-4	Bromodichloromethane	1.2 U
78-87-5	1,2-Dichloropropane	1.2 U
10061-01-5	cis-1,3-Dichloropropene	1.2 U
79-01-6	Trichloroethene	1.2 U
124-48-1	Dibromochloromethane	1.2 U
79-00-5	1,1,2-Trichloroethane	1.2 U
71-43-2	Benzene	1.2 U
10061-02-6	trans-1,3-Dichloropropene	1.2 U
110-75-8	2-Chloroethylvinylether	5.9 U
75-25-2	Bromoform	1.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.9 U
591-78-6	2-Hexanone	5.9 U
127-18-4	**Tetrachloroethene**	**1.2**
79-34-5	1,1,2,2-Tetrachloroethane	1.2 U
108-88-3	Toluene	1.2 U
108-90-7	Chlorobenzene	1.2 U
100-41-4	Ethylbenzene	1.2 U
100-42-5	Styrene	1.2 U
75-69-4	Trichlorofluoromethane	1.2 U
76-13-1	1,1,2-Trichlorotrifluoroethane	1.2 U
1330-20-7	m,p-Xylene	1.2 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-1-13

Lab Sample ID: BU55E
LIMS ID: 00-10285
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/29/00 15:07

Sample Amount: 4.24 g dry Wt
Percent Moisture: 14.3%

CAS Number	Analyte	ug/kg
95-47-6	o-Xylene	1.2 U
95-50-1	1,2-Dichlorobenzene	1.2 U
541-73-1	1,3-Dichlorobenzene	1.2 U
106-46-7	1,4-Dichlorobenzene	1.2 U
107-02-8	Acrolein	59 U
74-88-4	Methyl Iodide	1.2 U
74-96-4	Bromoethane	2.4 U
107-13-1	Acrylonitrile	5.9 U
563-58-6	1,1-Dichloropropene	1.2 U
74-95-3	Dibromomethane	1.2 U
630-20-6	1,1,1,2-Tetrachloroethane	1.2 U
96-12-8	1,2-Dibromo-3-chloropropane	5.9 U
96-18-4	1,2,3-Trichloropropane	2.4 U
110-57-6	trans-1,4-Dichloro-2-butene	5.9 U
108-67-8	1,3,5-Trimethylbenzene	1.2 U
95-63-6	1,2,4-Trimethylbenzene	1.2 U
87-68-3	Hexachlorobutadiene	5.9 U
106-93-4	Ethylene Dibromide	1.2 U
74-97-5	Bromochloromethane	1.2 U
594-20-7	2,2-Dichloropropane	1.2 U
142-28-9	1,3-Dichloropropane	1.2 U
98-82-8	Isopropylbenzene	1.2 U
103-65-1	n-Propylbenzene	1.2 U
108-86-1	Bromobenzene	1.2 U
95-49-8	2-Chlorotoluene	1.2 U
106-43-4	4-Chlorotoluene	1.2 U
98-06-6	tert-Butylbenzene	1.2 U
135-98-8	sec-Butylbenzene	1.2 U
99-87-6	4-Isopropyltoluene	1.2 U
104-51-8	n-Butylbenzene	2.4 U
120-82-1	1,2,4-Trichlorobenzene	5.9 U
91-20-3	Naphthalene	5.9 U
87-61-6	1,2,3-Trichlorobenzene	5.9 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	123%
d8-Toluene	99.4%
Bromofluorobenzene	100%
d4-1,2-Dichlorobenzene	100%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-3-12

Lab Sample ID: BU55F
LIMS ID: 00-10286
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/29/00 16:07

Sample Amount: 3.88 g dry Wt
Percent Moisture: 18.4%

CAS Number	Analyte	ug/kg
74-87-3	Chloromethane	1.3 U
74-83-9	Bromomethane	1.3 U
75-01-4	Vinyl Chloride	1.3 U
75-00-3	Chloroethane	1.3 U
75-09-2	Methylene Chloride	3.9 U
67-64-1	**Acetone**	**28 B**
75-15-0	Carbon Disulfide	1.3 U
75-35-4	1,1-Dichloroethene	1.3 U
75-34-3	1,1-Dichloroethane	1.3 U
156-60-5	trans-1,2-Dichloroethene	1.3 U
156-59-2	**cis-1,2-Dichloroethene**	**1.6**
67-66-3	Chloroform	1.3 U
107-06-2	1,2-Dichloroethane	1.3 U
78-93-3	2-Butanone	6.4 U
71-55-6	1,1,1-Trichloroethane	1.3 U
56-23-5	Carbon Tetrachloride	1.3 U
108-05-4	Vinyl Acetate	6.4 U
75-27-4	Bromodichloromethane	1.3 U
78-87-5	1,2-Dichloropropane	1.3 U
10061-01-5	cis-1,3-Dichloropropene	1.3 U
79-01-6	Trichloroethene	1.3 U
124-48-1	Dibromochloromethane	1.3 U
79-00-5	1,1,2-Trichloroethane	1.3 U
71-43-2	Benzene	1.3 U
10061-02-6	trans-1,3-Dichloropropene	1.3 U
110-75-8	2-Chloroethylvinylether	6.4 U
75-25-2	Bromoform	1.3 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.4 U
591-78-6	2-Hexanone	6.4 U
127-18-4	Tetrachloroethene	1.3 U
79-34-5	1,1,2,2-Tetrachloroethane	1.3 U
108-88-3	Toluene	1.3 U
108-90-7	Chlorobenzene	1.3 U
100-41-4	Ethylbenzene	1.3 U
100-42-5	Styrene	1.3 U
75-69-4	Trichlorofluoromethane	1.3 U
76-13-1	1,1,2-Trichlorotrifluoroethane	1.3 U
1330-20-7	m,p-Xylene	1.3 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-3-12

Lab Sample ID: BU55F
LIMS ID: 00-10286
Matrix: Soil
Data Release Authorized: BKB
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/29/00 16:07

Sample Amount: 3.88 g dry Wt
Percent Moisture: 18.4%

CAS Number	Analyte	ug/kg
95-47-6	o-Xylene	1.3 U
95-50-1	1,2-Dichlorobenzene	1.3 U
541-73-1	1,3-Dichlorobenzene	1.3 U
106-46-7	1,4-Dichlorobenzene	1.3 U
107-02-8	Acrolein	64 U
74-88-4	Methyl Iodide	1.3 U
74-96-4	Bromoethane	2.6 U
107-13-1	Acrylonitrile	6.4 U
563-58-6	1,1-Dichloropropene	1.3 U
74-95-3	Dibromomethane	1.3 U
630-20-6	1,1,1,2-Tetrachloroethane	1.3 U
96-12-8	1,2-Dibromo-3-chloropropane	6.4 U
96-18-4	1,2,3-Trichloropropane	2.6 U
110-57-6	trans-1,4-Dichloro-2-butene	6.4 U
108-67-8	1,3,5-Trimethylbenzene	1.3 U
95-63-6	1,2,4-Trimethylbenzene	1.3 U
87-68-3	Hexachlorobutadiene	6.4 U
106-93-4	Ethylene Dibromide	1.3 U
74-97-5	Bromochloromethane	1.3 U
594-20-7	2,2-Dichloropropane	1.3 U
142-28-9	1,3-Dichloropropane	1.3 U
98-82-8	Isopropylbenzene	1.3 U
103-65-1	n-Propylbenzene	1.3 U
108-86-1	Bromobenzene	1.3 U
95-49-8	2-Chlorotoluene	1.3 U
106-43-4	4-Chlorotoluene	1.3 U
98-06-6	tert-Butylbenzene	1.3 U
135-98-8	sec-Butylbenzene	1.3 U
99-87-6	4-Isopropyltoluene	1.3 U
104-51-8	n-Butylbenzene	2.6 U
120-82-1	1,2,4-Trichlorobenzene	6.4 U
91-20-3	Naphthalene	6.4 U
87-61-6	1,2,3-Trichlorobenzene	6.4 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	120%
d8-Toluene	99.2%
Bromofluorobenzene	100%
d4-1,2-Dichlorobenzene	99.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-5-10

Lab Sample ID: BU55G
LIMS ID: 00-10287
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/29/00 16:36

Sample Amount: 4.74 g dry Wt
Percent Moisture: 7.3%

CAS Number	Analyte	ug/kg
74-87-3	Chloromethane	1.1 U
74-83-9	Bromomethane	1.1 U
75-01-4	Vinyl Chloride	1.1 U
75-00-3	Chloroethane	1.1 U
75-09-2	Methylene Chloride	3.2 U
67-64-1	**Acetone**	**7.3 B**
75-15-0	Carbon Disulfide	1.1 U
75-35-4	1,1-Dichloroethene	1.1 U
75-34-3	1,1-Dichloroethane	1.1 U
156-60-5	trans-1,2-Dichloroethene	1.1 U
156-59-2	**cis-1,2-Dichloroethene**	**2.1**
67-66-3	Chloroform	1.1 U
107-06-2	1,2-Dichloroethane	1.1 U
78-93-3	2-Butanone	5.3 U
71-55-6	1,1,1-Trichloroethane	1.1 U
56-23-5	Carbon Tetrachloride	1.1 U
108-05-4	Vinyl Acetate	5.3 U
75-27-4	Bromodichloromethane	1.1 U
78-87-5	1,2-Dichloropropane	1.1 U
10061-01-5	cis-1,3-Dichloropropene	1.1 U
79-01-6	Trichloroethene	1.1 U
124-48-1	Dibromochloromethane	1.1 U
79-00-5	1,1,2-Trichloroethane	1.1 U
71-43-2	Benzene	1.1 U
10061-02-6	trans-1,3-Dichloropropene	1.1 U
110-75-8	2-Chloroethylvinylether	5.3 U
75-25-2	Bromoform	1.1 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.3 U
591-78-6	2-Hexanone	5.3 U
127-18-4	**Tetrachloroethene**	**5.1**
79-34-5	1,1,2,2-Tetrachloroethane	1.1 U
108-88-3	Toluene	1.1 U
108-90-7	Chlorobenzene	1.1 U
100-41-4	Ethylbenzene	1.1 U
100-42-5	Styrene	1.1 U
75-69-4	Trichlorofluoromethane	1.1 U
76-13-1	1,1,2-Trichlorotrifluoroethane	1.1 U
1330-20-7	m,p-Xylene	1.1 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-5-10

Lab Sample ID: BU55G
LIMS ID: 00-10287
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/29/00 16:36

Sample Amount: 4.74 g dry Wt
Percent Moisture: 7.3%

CAS Number	Analyte	ug/kg
95-47-6	o-Xylene	1.1 U
95-50-1	1,2-Dichlorobenzene	1.1 U
541-73-1	1,3-Dichlorobenzene	1.1 U
106-46-7	1,4-Dichlorobenzene	1.1 U
107-02-8	Acrolein	53 U
74-88-4	Methyl Iodide	1.1 U
74-96-4	Bromoethane	2.1 U
107-13-1	Acrylonitrile	5.3 U
563-58-6	1,1-Dichloropropene	1.1 U
74-95-3	Dibromomethane	1.1 U
630-20-6	1,1,1,2-Tetrachloroethane	1.1 U
96-12-8	1,2-Dibromo-3-chloropropane	5.3 U
96-18-4	1,2,3-Trichloropropane	2.1 U
110-57-6	trans-1,4-Dichloro-2-butene	5.3 U
108-67-8	1,3,5-Trimethylbenzene	1.1 U
95-63-6	1,2,4-Trimethylbenzene	1.1 U
87-68-3	Hexachlorobutadiene	5.3 U
106-93-4	Ethylene Dibromide	1.1 U
74-97-5	Bromochloromethane	1.1 U
594-20-7	2,2-Dichloropropane	1.1 U
142-28-9	1,3-Dichloropropane	1.1 U
98-82-8	Isopropylbenzene	1.1 U
103-65-1	n-Propylbenzene	1.1 U
108-86-1	Bromobenzene	1.1 U
95-49-8	2-Chlorotoluene	1.1 U
106-43-4	4-Chlorotoluene	1.1 U
98-06-6	tert-Butylbenzene	1.1 U
135-98-8	sec-Butylbenzene	1.1 U
99-87-6	4-Isopropyltoluene	1.1 U
104-51-8	n-Butylbenzene	2.1 U
120-82-1	1,2,4-Trichlorobenzene	5.3 U
91-20-3	Naphthalene	5.3 U
87-61-6	1,2,3-Trichlorobenzene	5.3 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	118%
d8-Toluene	96.8%
Bromofluorobenzene	101%
d4-1,2-Dichlorobenzene	96.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-5-11.5

Lab Sample ID: BU55H
LIMS ID: 00-10288
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/29/00 17:02

Sample Amount: 4.12 g dry Wt
Percent Moisture: 18.6%

CAS Number	Analyte	ug/kg
74-87-3	Chloromethane	1.2 U
74-83-9	Bromomethane	1.2 U
75-01-4	Vinyl Chloride	1.2 U
75-00-3	Chloroethane	1.2 U
75-09-2	Methylene Chloride	3.6 U
67-64-1	**Acetone**	**6.5 B**
75-15-0	Carbon Disulfide	1.2 U
75-35-4	1,1-Dichloroethene	1.2 U
75-34-3	1,1-Dichloroethane	1.2 U
156-60-5	trans-1,2-Dichloroethene	1.2 U
156-59-2	**cis-1,2-Dichloroethene**	**13**
67-66-3	Chloroform	1.2 U
107-06-2	1,2-Dichloroethane	1.2 U
78-93-3	2-Butanone	6.1 U
71-55-6	1,1,1-Trichloroethane	1.2 U
56-23-5	Carbon Tetrachloride	1.2 U
108-05-4	Vinyl Acetate	6.1 U
75-27-4	Bromodichloromethane	1.2 U
78-87-5	1,2-Dichloropropane	1.2 U
10061-01-5	cis-1,3-Dichloropropene	1.2 U
79-01-6	**Trichloroethene**	**8.8**
124-48-1	Dibromochloromethane	1.2 U
79-00-5	1,1,2-Trichloroethane	1.2 U
71-43-2	Benzene	1.2 U
10061-02-6	trans-1,3-Dichloropropene	1.2 U
110-75-8	2-Chloroethylvinylether	6.1 U
75-25-2	Bromoform	1.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.1 U
591-78-6	2-Hexanone	6.1 U
127-18-4	**Tetrachloroethene**	**120**
79-34-5	1,1,2,2-Tetrachloroethane	1.2 U
108-88-3	Toluene	1.2 U
108-90-7	Chlorobenzene	1.2 U
100-41-4	Ethylbenzene	1.2 U
100-42-5	Styrene	1.2 U
75-69-4	Trichlorofluoromethane	1.2 U
76-13-1	1,1,2-Trichlorotrifluoroethane	1.2 U
1330-20-7	m,p-Xylene	1.2 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-5-11.5

Lab Sample ID: BU55H
LIMS ID: 00-10288
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/29/00 17:02

Sample Amount: 4.12 g dry Wt
Percent Moisture: 18.6%

CAS Number	Analyte	ug/kg
95-47-6	o-Xylene	1.2 U
95-50-1	1,2-Dichlorobenzene	1.2 U
541-73-1	1,3-Dichlorobenzene	1.2 U
106-46-7	1,4-Dichlorobenzene	1.2 U
107-02-8	Acrolein	61 U
74-88-4	Methyl Iodide	1.2 U
74-96-4	Bromoethane	2.4 U
107-13-1	Acrylonitrile	6.1 U
563-58-6	1,1-Dichloropropene	1.2 U
74-95-3	Dibromomethane	1.2 U
630-20-6	1,1,1,2-Tetrachloroethane	1.2 U
96-12-8	1,2-Dibromo-3-chloropropane	6.1 U
96-18-4	1,2,3-Trichloropropane	2.4 U
110-57-6	trans-1,4-Dichloro-2-butene	6.1 U
108-67-8	1,3,5-Trimethylbenzene	1.2 U
95-63-6	1,2,4-Trimethylbenzene	1.2 U
87-68-3	Hexachlorobutadiene	6.1 U
106-93-4	Ethylene Dibromide	1.2 U
74-97-5	Bromochloromethane	1.2 U
594-20-7	2,2-Dichloropropane	1.2 U
142-28-9	1,3-Dichloropropane	1.2 U
98-82-8	Isopropylbenzene	1.2 U
103-65-1	n-Propylbenzene	1.2 U
108-86-1	Bromobenzene	1.2 U
95-49-8	2-Chlorotoluene	1.2 U
106-43-4	4-Chlorotoluene	1.2 U
98-06-6	tert-Butylbenzene	1.2 U
135-98-8	sec-Butylbenzene	1.2 U
99-87-6	4-Isopropyltoluene	1.2 U
104-51-8	n-Butylbenzene	2.4 U
120-82-1	1,2,4-Trichlorobenzene	6.1 U
91-20-3	Naphthalene	6.1 U
87-61-6	1,2,3-Trichlorobenzene	6.1 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	113%
d8-Toluene	96.6%
Bromofluorobenzene	101%
d4-1,2-Dichlorobenzene	97.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: Trip Blank

Lab Sample ID: BU55O
LIMS ID: 00-10295
Matrix: Water
Data Release Authorized: *GMS*
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus

Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/28/00 15:07

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
74-87-3	Chloromethane	1.0 U
74-83-9	Bromomethane	1.0 U
75-01-4	Vinyl Chloride	1.0 U
75-00-3	Chloroethane	1.0 U
75-09-2	Methylene Chloride	2.0 U
67-64-1	**Acetone**	**5.9 B**
75-15-0	Carbon Disulfide	1.0 U
75-35-4	1,1-Dichloroethene	1.0 U
75-34-3	1,1-Dichloroethane	1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0 U
67-66-3	Chloroform	1.0 U
107-06-2	1,2-Dichloroethane	1.0 U
78-93-3	2-Butanone	5.0 U
71-55-6	1,1,1-Trichloroethane	1.0 U
56-23-5	Carbon Tetrachloride	1.0 U
108-05-4	Vinyl Acetate	5.0 U
75-27-4	Bromodichloromethane	1.0 U
78-87-5	1,2-Dichloropropane	1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0 U
79-01-6	Trichloroethene	1.0 U
124-48-1	Dibromochloromethane	1.0 U
79-00-5	1,1,2-Trichloroethane	1.0 U
71-43-2	Benzene	1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0 U
110-75-8	2-Chloroethylvinylether	5.0 U
75-25-2	Bromoform	1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0 U
591-78-6	2-Hexanone	5.0 U
127-18-4	Tetrachloroethene	1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U
108-88-3	Toluene	1.0 U
108-90-7	Chlorobenzene	1.0 U
100-41-4	Ethylbenzene	1.0 U
100-42-5	Styrene	1.0 U
75-69-4	Trichlorofluoromethane	1.0 U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.0 U
1330-20-7	m,p-Xylene	1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: Trip Blank

Lab Sample ID: BU550
LIMS ID: 00-10295
Matrix: Water
Data Release Authorized: *AMB*
Reported: 07/03/00

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN5
Date Analyzed: 06/28/00 15:07

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
95-47-6	o-Xylene	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
107-02-8	Acrolein	50 U
74-88-4	Methyl Iodide	1.0 U
74-96-4	Bromoethane	2.0 U
107-13-1	Acrylonitrile	5.0 U
563-58-6	1,1-Dichloropropene	1.0 U
74-95-3	Dibromomethane	1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U
96-18-4	1,2,3-Trichloropropane	3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0 U
87-68-3	Hexachlorobutadiene	5.0 U
106-93-4	Ethylene Dibromide	1.0 U
74-97-5	Bromochloromethane	1.0 U
594-20-7	2,2-Dichloropropane	1.0 U
142-28-9	1,3-Dichloropropane	1.0 U
98-82-8	Isopropylbenzene	1.0 U
103-65-1	n-Propylbenzene	1.0 U
108-86-1	Bromobenzene	1.0 U
95-49-8	2-Chlorotoluene	1.0 U
106-43-4	4-Chlorotoluene	1.0 U
98-06-6	tert-Butylbenzene	1.0 U
135-98-8	sec-Butylbenzene	1.0 U
99-87-6	4-Isopropyltoluene	1.0 U
104-51-8	n-Butylbenzene	1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0 U
91-20-3	Naphthalene	5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	123%
d8-Toluene	101%
Bromofluorobenzene	105%
d4-1,2-Dichlorobenzene	101%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: BU55SB
LIMS ID: 00-10282
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00
Date Analyzed: 06/28/00
Instrument: FINN5

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Received: NA

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
Chloromethane	25.7	50.0	51.4%
Bromomethane	39.6	50.0	79.2%
Vinyl Chloride	29.2	50.0	58.4%
Chloroethane	36.3	50.0	72.6%
Methylene Chloride	44.3	50.0	88.6%
Acetone	292.	250	117%
Carbon Disulfide	80.7	50.0	161%
1,1-Dichloroethene	37.6	50.0	75.2%
1,1-Dichloroethane	43.8	50.0	87.6%
trans-1,2-Dichloroethene	43.5	50.0	87.0%
cis-1,2-Dichloroethene	45.6	50.0	91.2%
Chloroform	46.3	50.0	92.6%
1,2-Dichloroethane	44.4	50.0	88.8%
2-Butanone	284.	250	114%
1,1,1-Trichloroethane	43.8	50.0	87.6%
Carbon Tetrachloride	39.9	50.0	79.8%
Vinyl Acetate	53.0	50.0	106%
Bromodichloromethane	43.6	50.0	87.2%
1,2-Dichloropropane	47.6	50.0	95.2%
cis-1,3-Dichloropropene	43.6	50.0	87.2%
Trichloroethene	42.8	50.0	85.6%
Dibromochloromethane	44.8	50.0	89.6%
1,1,2-Trichloroethane	46.2	50.0	92.4%
Benzene	44.2	50.0	88.4%
trans-1,3-Dichloropropene	42.8	50.0	85.6%
2-Chloroethylvinylether	55.0	50.0	110%
Bromoform	44.3	50.0	88.6%
4-Methyl-2-Pentanone (MIBK)	263.	250	105%
2-Hexanone	268.	250	107%
Tetrachloroethene	43.8	50.0	87.6%
1,1,2,2-Tetrachloroethane	47.7	50.0	95.4%
Toluene	44.0	50.0	88.0%
Chlorobenzene	46.8	50.0	93.6%
Ethylbenzene	45.5	50.0	91.0%
Styrene	46.8	50.0	93.6%
Trichlorofluoromethane	33.2	50.0	66.4%
1,1,2-Trichlorotrifluoroethane	62.9	50.0	126%
m,p-Xylene	93.1	100	93.1%
O-Xylene	46.8	50.0	93.6%

Reported in ug/kg-dry-Wt

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: BU55SB
LIMS ID: 00-10282
Matrix: Soil
Data Release Authorized: AP
Reported: 07/03/00
Date Analyzed: 06/28/00
Instrument: FINN5

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Received: NA

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
1,2-Dichlorobenzene	46.3	50.0	92.6%
1,3-Dichlorobenzene	48.5	50.0	97.0%
1,4-Dichlorobenzene	48.8	50.0	97.6%
Acrolein	322.	250	129%
Methyl Iodide	65.2	50.0	130%
Bromoethane	64.6	50.0	129%
Acrylonitrile	56.3	50.0	113%
1,1-Dichloropropene	42.9	50.0	85.8%
Dibromomethane	45.2	50.0	90.4%
1,1,1,2-Tetrachloroethane	45.4	50.0	90.8%
1,2-Dibromo-3-chloropropane	49.4	50.0	98.8%
1,2,3-Trichloropropane	45.7	50.0	91.4%
trans-1,4-Dichloro-2-butene	52.8	50.0	106%
1,3,5-Trimethylbenzene	49.4	50.0	98.8%
1,2,4-Trimethylbenzene	49.5	50.0	99.0%
Hexachlorobutadiene	49.4	50.0	98.8%
Ethylene Dibromide	43.9	50.0	87.8%
Bromochloromethane	44.6	50.0	89.2%
2,2-Dichloropropane	44.3	50.0	88.6%
1,3-Dichloropropane	47.0	50.0	94.0%
Isopropylbenzene	49.0	50.0	98.0%
n-Propylbenzene	48.8	50.0	97.6%
Bromobenzene	45.6	50.0	91.2%
2-Chlorotoluene	47.3	50.0	94.6%
4-Chlorotoluene	50.7	50.0	101%
tert-Butylbenzene	50.7	50.0	101%
sec-Butylbenzene	51.3	50.0	103%
4-Isopropyltoluene	51.5	50.0	103%
n-Butylbenzene	53.6	50.0	107%
1,2,4-Trichlorobenzene	51.7	50.0	103%
Naphthalene	51.6	50.0	103%
1,2,3-Trichlorobenzene	52.7	50.0	105%

Spike Blank Surrogate Recovery	
d4-1,2-Dichloroethane	108%
d8-Toluene	99.8%
Bromofluorobenzene	103%
d4-1,2-Dichlorobenzene	104%

Reported in ug/kg-dry-Wt

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: BU55SB
LIMS ID: 00-10285
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00
Date Analyzed: 06/29/00
Instrument: FINN5

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Received: NA

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
Chloromethane	38.9	50.0	77.8%
Bromomethane	50.1	50.0	100%
Vinyl Chloride	43.9	50.0	87.8%
Chloroethane	46.0	50.0	92.0%
Methylene Chloride	48.3	50.0	96.6%
Acetone	282.	250	113%
Carbon Disulfide	69.2	50.0	138%
1,1-Dichloroethene	45.9	50.0	91.8%
1,1-Dichloroethane	47.2	50.0	94.4%
trans-1,2-Dichloroethene	47.3	50.0	94.6%
cis-1,2-Dichloroethene	49.1	50.0	98.2%
Chloroform	50.0	50.0	100%
1,2-Dichloroethane	50.9	50.0	102%
2-Butanone	285.	250	114%
1,1,1-Trichloroethane	48.5	50.0	97.0%
Carbon Tetrachloride	49.3	50.0	98.6%
Vinyl Acetate	45.7	50.0	91.4%
Bromodichloromethane	50.3	50.0	101%
1,2-Dichloropropane	52.3	50.0	105%
cis-1,3-Dichloropropene	48.0	50.0	96.0%
Trichloroethene	49.6	50.0	99.2%
Dibromochloromethane	47.8	50.0	95.6%
1,1,2-Trichloroethane	48.7	50.0	97.4%
Benzene	50.1	50.0	100%
trans-1,3-Dichloropropene	48.0	50.0	96.0%
2-Chloroethylvinylether	48.8	50.0	97.6%
Bromoform	48.7	50.0	97.4%
4-Methyl-2-Pentanone (MIBK)	275.	250	110%
2-Hexanone	266.	250	106%
Tetrachloroethene	47.7	50.0	95.4%
1,1,2,2-Tetrachloroethane	48.7	50.0	97.4%
Toluene	49.2	50.0	98.4%
Chlorobenzene	48.1	50.0	96.2%
Ethylbenzene	47.8	50.0	95.6%
Styrene	48.8	50.0	97.6%
Trichlorofluoromethane	45.0	50.0	90.0%
1,1,2-Trichlorotrifluoroethane	54.4	50.0	109%
m,p-Xylene	97.9	100	97.9%
O-Xylene	49.6	50.0	99.2%

Reported in ug/kg-dry-Wt

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: BU55SB
LIMS ID: 00-10285
Matrix: Soil
Data Release Authorized: *AB*
Reported: 07/03/00
Date Analyzed: 06/29/00
Instrument: FINN5

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Received: NA

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
1,2-Dichlorobenzene	49.5	50.0	99.0%
1,3-Dichlorobenzene	49.5	50.0	99.0%
1,4-Dichlorobenzene	49.4	50.0	98.8%
Acrolein	293.	250	117%
Methyl Iodide	57.6	50.0	115%
Bromoethane	57.0	50.0	114%
Acrylonitrile	48.2	50.0	96.4%
1,1-Dichloropropene	50.7	50.0	101%
Dibromomethane	51.1	50.0	102%
1,1,1,2-Tetrachloroethane	47.5	50.0	95.0%
1,2-Dibromo-3-chloropropane	49.0	50.0	98.0%
1,2,3-Trichloropropane	48.6	50.0	97.2%
trans-1,4-Dichloro-2-butene	45.0	50.0	90.0%
1,3,5-Trimethylbenzene	49.8	50.0	99.6%
1,2,4-Trimethylbenzene	49.0	50.0	98.0%
Hexachlorobutadiene	53.8	50.0	108%
Ethylene Dibromide	50.0	50.0	100%
Bromochloromethane	49.2	50.0	98.4%
2,2-Dichloropropane	48.3	50.0	96.6%
1,3-Dichloropropane	48.7	50.0	97.4%
Isopropylbenzene	50.3	50.0	101%
n-Propylbenzene	49.0	50.0	98.0%
Bromobenzene	48.9	50.0	97.8%
2-Chlorotoluene	50.4	50.0	101%
4-Chlorotoluene	46.4	50.0	92.8%
tert-Butylbenzene	47.1	50.0	94.2%
sec-Butylbenzene	49.8	50.0	99.6%
4-Isopropyltoluene	49.8	50.0	99.6%
n-Butylbenzene	48.6	50.0	97.2%
1,2,4-Trichlorobenzene	52.8	50.0	106%
Naphthalene	53.0	50.0	106%
1,2,3-Trichlorobenzene	53.1	50.0	106%

Spike Blank Surrogate Recovery	
d4-1,2-Dichloroethane	100%
d8-Toluene	99.1%
Bromofluorobenzene	98.8%
d4-1,2-Dichlorobenzene	101%

Reported in ug/kg-dry-Wt

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: BU55SB
LIMS ID: 00-10283
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00
Date Analyzed: 06/30/00
Instrument: FINN5

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Received: NA

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
Chloromethane	35.4	50.0	70.8%
Bromomethane	50.7	50.0	101%
Vinyl Chloride	43.1	50.0	86.2%
Chloroethane	45.2	50.0	90.4%
Methylene Chloride	50.6	50.0	101%
Acetone	238.	250	95.2%
Carbon Disulfide	73.2	50.0	146%
1,1-Dichloroethene	47.4	50.0	94.8%
1,1-Dichloroethane	47.0	50.0	94.0%
trans-1,2-Dichloroethene	48.4	50.0	96.8%
cis-1,2-Dichloroethene	51.0	50.0	102%
Chloroform	49.6	50.0	99.2%
1,2-Dichloroethane	48.9	50.0	97.8%
2-Butanone	239.	250	95.6%
1,1,1-Trichloroethane	47.8	50.0	95.6%
Carbon Tetrachloride	49.3	50.0	98.6%
Vinyl Acetate	46.3	50.0	92.6%
Bromodichloromethane	48.3	50.0	96.6%
1,2-Dichloropropane	54.6	50.0	109%
cis-1,3-Dichloropropene	47.6	50.0	95.2%
Trichloroethene	50.4	50.0	101%
Dibromochloromethane	49.4	50.0	98.8%
1,1,2-Trichloroethane	48.3	50.0	96.6%
Benzene	51.7	50.0	103%
trans-1,3-Dichloropropene	47.0	50.0	94.0%
2-Chloroethylvinylether	49.9	50.0	99.8%
Bromoform	48.9	50.0	97.8%
4-Methyl-2-Pentanone (MIBK)	231.	250	92.4%
2-Hexanone	235.	250	94.0%
Tetrachloroethene	50.1	50.0	100%
1,1,2,2-Tetrachloroethane	48.4	50.0	96.8%
Toluene	49.2	50.0	98.4%
Chlorobenzene	50.2	50.0	100%
Ethylbenzene	50.0	50.0	100%
Styrene	50.8	50.0	102%
Trichlorofluoromethane	40.4	50.0	80.8%
1,1,2-Trichlorotrifluoroethane	61.0	50.0	122%
m,p-Xylene	101.	100	101%
O-Xylene	51.4	50.0	103%

Reported in ug/kg-dry-Wt

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: BU55SB
LIMS ID: 00-10283
Matrix: Soil
Data Release Authorized:
Reported: 07/03/00
Date Analyzed: 06/30/00
Instrument: FINN5

QC Report No: BU55-ThermoRetec
Project: Nexus
Date Received: NA

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
1,2-Dichlorobenzene	51.1	50.0	102%
1,3-Dichlorobenzene	51.3	50.0	103%
1,4-Dichlorobenzene	51.4	50.0	103%
Acrolein	256.	250	102%
Methyl Iodide	56.4	50.0	113%
Bromoethane	58.9	50.0	118%
Acrylonitrile	48.6	50.0	97.2%
1,1-Dichloropropene	54.4	50.0	109%
Dibromomethane	49.6	50.0	99.2%
1,1,1,2-Tetrachloroethane	49.5	50.0	99.0%
1,2-Dibromo-3-chloropropane	54.0	50.0	108%
1,2,3-Trichloropropane	47.6	50.0	95.2%
trans-1,4-Dichloro-2-butene	44.7	50.0	89.4%
1,3,5-Trimethylbenzene	49.6	50.0	99.2%
1,2,4-Trimethylbenzene	50.2	50.0	100%
Hexachlorobutadiene	58.4	50.0	117%
Ethylene Dibromide	48.7	50.0	97.4%
Bromochloromethane	50.1	50.0	100%
2,2-Dichloropropane	49.3	50.0	98.6%
1,3-Dichloropropane	50.5	50.0	101%
Isopropylbenzene	50.4	50.0	101%
n-Propylbenzene	49.1	50.0	98.2%
Bromobenzene	49.6	50.0	99.2%
2-Chlorotoluene	47.7	50.0	95.4%
4-Chlorotoluene	53.7	50.0	107%
tert-Butylbenzene	51.5	50.0	103%
sec-Butylbenzene	52.5	50.0	105%
4-Isopropyltoluene	52.6	50.0	105%
n-Butylbenzene	53.1	50.0	106%
1,2,4-Trichlorobenzene	58.2	50.0	116%
Naphthalene	56.5	50.0	113%
1,2,3-Trichlorobenzene	56.9	50.0	114%

Spike Blank Surrogate Recovery	
d4-1,2-Dichloroethane	92.3%
d8-Toluene	96.2%
Bromofluorobenzene	97.7%
d4-1,2-Dichlorobenzene	99.2%

Reported in ug/kg-dry-Wt

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: Method Blank

Lab Sample ID: 063000MB
LIMS ID: 00-10296
Matrix: Water
Data Release Authorized: MW
Reported: 07/03/00

QC Report No: BU56-ThermoRetec
Project: Nexus
Date Sampled: NA
Date Received: NA

Instrument: NT3
Date Analyzed: 06/30/00 11:51

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
74-87-3	Chloromethane	1.0 U
74-83-9	Bromomethane	1.0 U
75-01-4	Vinyl Chloride	1.0 U
75-00-3	Chloroethane	1.0 U
75-09-2	Methylene Chloride	2.0 U
67-64-1	Acetone	5.0 U
75-15-0	Carbon Disulfide	1.0 U
75-35-4	1,1-Dichloroethene	1.0 U
75-34-3	1,1-Dichloroethane	1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0 U
67-66-3	Chloroform	1.0 U
107-06-2	1,2-Dichloroethane	1.0 U
78-93-3	2-Butanone	5.0 U
71-55-6	1,1,1-Trichloroethane	1.0 U
56-23-5	Carbon Tetrachloride	1.0 U
108-05-4	Vinyl Acetate	5.0 U
75-27-4	Bromodichloromethane	1.0 U
78-87-5	1,2-Dichloropropane	1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0 U
79-01-6	Trichloroethene	1.0 U
124-48-1	Dibromochloromethane	1.0 U
79-00-5	1,1,2-Trichloroethane	1.0 U
71-43-2	Benzene	1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0 U
110-75-8	2-Chloroethylvinylether	5.0 U
75-25-2	Bromoform	1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0 U
591-78-6	2-Hexanone	5.0 U
127-18-4	Tetrachloroethene	1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U
108-88-3	Toluene	1.0 U
108-90-7	Chlorobenzene	1.0 U
100-41-4	Ethylbenzene	1.0 U
100-42-5	Styrene	1.0 U
75-69-4	Trichlorofluoromethane	1.0 U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.0 U
1330-20-7	m,p-Xylene	1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: Method Blank

Lab Sample ID: 063000MB
LIMS ID: 00-10296
Matrix: Water
Data Release Authorized: MV
Reported: 07/03/00

QC Report No: BU56-ThermoRetec
Project: Nexus
Date Sampled: NA
Date Received: NA

Instrument: NT3
Date Analyzed: 06/30/00 11:51

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
95-47-6	o-Xylene	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
107-02-8	Acrolein	50 U
74-88-4	Methyl Iodide	1.0 U
74-96-4	Bromoethane	2.0 U
107-13-1	Acrylonitrile	5.0 U
563-58-6	1,1-Dichloropropene	1.0 U
74-95-3	Dibromomethane	1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U
96-18-4	1,2,3-Trichloropropane	3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0 U
87-68-3	Hexachlorobutadiene	5.0 U
106-93-4	Ethylene Dibromide	1.0 U
74-97-5	Bromochloromethane	1.0 U
594-20-7	2,2-Dichloropropane	1.0 U
142-28-9	1,3-Dichloropropane	1.0 U
98-82-8	Isopropylbenzene	1.0 U
103-65-1	n-Propylbenzene	1.0 U
108-86-1	Bromobenzene	1.0 U
95-49-8	2-Chlorotoluene	1.0 U
106-43-4	4-Chlorotoluene	1.0 U
98-06-6	tert-Butylbenzene	1.0 U
135-98-8	sec-Butylbenzene	1.0 U
99-87-6	4-Isopropyltoluene	1.0 U
104-51-8	n-Butylbenzene	1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0 U
91-20-3	Naphthalene	5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	92.3%
d8-Toluene	104%
Bromofluorobenzene	97.1%
d4-1,2-Dichlorobenzene	103%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS
Page 1 of 2

Sample No: B-2-11.5

Lab Sample ID: BU56A
LIMS ID: 00-10296
Matrix: Water
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU56-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: NT3
Date Analyzed: 06/30/00 12:35

Sample Amount: 0.020 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
74-87-3	Chloromethane	250 U
74-83-9	Bromomethane	250 U
75-01-4	Vinyl Chloride	250 U
75-00-3	Chloroethane	250 U
75-09-2	Methylene Chloride	500 U
67-64-1	Acetone	1200 U
75-15-0	Carbon Disulfide	250 U
75-35-4	1,1-Dichloroethene	250 U
75-34-3	1,1-Dichloroethane	250 U
156-60-5	trans-1,2-Dichloroethene	250 U
156-59-2	**cis-1,2-Dichloroethene**	**4100**
67-66-3	Chloroform	250 U
107-06-2	1,2-Dichloroethane	250 U
78-93-3	2-Butanone	1200 U
71-55-6	1,1,1-Trichloroethane	250 U
56-23-5	Carbon Tetrachloride	250 U
108-05-4	Vinyl Acetate	1200 U
75-27-4	Bromodichloromethane	250 U
78-87-5	1,2-Dichloropropane	250 U
10061-01-5	cis-1,3-Dichloropropene	250 U
79-01-6	**Trichloroethene**	**600**
124-48-1	Dibromochloromethane	250 U
79-00-5	1,1,2-Trichloroethane	250 U
71-43-2	Benzene	250 U
10061-02-6	trans-1,3-Dichloropropene	250 U
110-75-8	2-Chloroethylvinylether	1200 U
75-25-2	Bromoform	250 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1200 U
591-78-6	2-Hexanone	1200 U
127-18-4	**Tetrachloroethene**	**37000**
79-34-5	1,1,2,2-Tetrachloroethane	250 U
108-88-3	Toluene	250 U
108-90-7	Chlorobenzene	250 U
100-41-4	Ethylbenzene	250 U
100-42-5	Styrene	250 U
75-69-4	Trichlorofluoromethane	250 U
76-13-1	1,1,2-Trichlorotrifluoroethane	500 U
1330-20-7	m,p-Xylene	250 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: B-2-11.5

Lab Sample ID: BU56A
LIMS ID: 00-10296
Matrix: Water
Data Release Authorized:
Reported: 07/03/00

QC Report No: BU56-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: NT3
Date Analyzed: 06/30/00 12:35

Sample Amount: 0.020 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
95-47-6	o-Xylene	250 U
95-50-1	1,2-Dichlorobenzene	250 U
541-73-1	1,3-Dichlorobenzene	250 U
106-46-7	1,4-Dichlorobenzene	250 U
107-02-8	Acrolein	12000 U
74-88-4	Methyl Iodide	250 U
74-96-4	Bromoethane	500 U
107-13-1	Acrylonitrile	1200 U
563-58-6	1,1-Dichloropropene	250 U
74-95-3	Dibromomethane	250 U
630-20-6	1,1,1,2-Tetrachloroethane	250 U
96-12-8	1,2-Dibromo-3-chloropropane	1200 U
96-18-4	1,2,3-Trichloropropane	750 U
110-57-6	trans-1,4-Dichloro-2-butene	1200 U
108-67-8	1,3,5-Trimethylbenzene	250 U
95-63-6	1,2,4-Trimethylbenzene	250 U
87-68-3	Hexachlorobutadiene	1200 U
106-93-4	Ethylene Dibromide	250 U
74-97-5	Bromochloromethane	250 U
594-20-7	2,2-Dichloropropane	250 U
142-28-9	1,3-Dichloropropane	250 U
98-82-8	Isopropylbenzene	250 U
103-65-1	n-Propylbenzene	250 U
108-86-1	Bromobenzene	250 U
95-49-8	2-Chlorotoluene	250 U
106-43-4	4-Chlorotoluene	250 U
98-06-6	tert-Butylbenzene	250 U
135-98-8	sec-Butylbenzene	250 U
99-87-6	4-Isopropyltoluene	250 U
104-51-8	n-Butylbenzene	250 U
120-82-1	1,2,4-Trichlorobenzene	1200 U
91-20-3	Naphthalene	1200 U
87-61-6	1,2,3-Trichlorobenzene	1200 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.4%
d8-Toluene	107%
Bromofluorobenzene	99.7%
d4-1,2-Dichlorobenzene	107%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: BU56SB
LIMS ID: 00-10296
Matrix: Water
Data Release Authorized: YMW
Reported: 07/03/00
Date Analyzed: 06/30/00
Instrument: NT3

QC Report No: BU56-ThermoRetec
Project: Nexus
Date Received: 06/23/00

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
Chloromethane	43.0	50.0	86.0%
Bromomethane	64.3	50.0	129%
Vinyl Chloride	43.2	50.0	86.4%
Chloroethane	49.3	50.0	98.6%
Methylene Chloride	50.9	50.0	102%
Acetone	258.	250	103%
Carbon Disulfide	48.6	50.0	97.2%
1,1-Dichloroethene	48.5	50.0	97.0%
1,1-Dichloroethane	49.5	50.0	99.0%
trans-1,2-Dichloroethene	49.8	50.0	99.6%
cis-1,2-Dichloroethene	51.4	50.0	103%
Chloroform	50.7	50.0	101%
1,2-Dichloroethane	49.8	50.0	99.6%
2-Butanone	262.	250	105%
1,1,1-Trichloroethane	50.8	50.0	102%
Carbon Tetrachloride	49.8	50.0	99.6%
Vinyl Acetate	42.9	50.0	85.8%
Bromodichloromethane	49.4	50.0	98.8%
1,2-Dichloropropane	53.1	50.0	106%
cis-1,3-Dichloropropene	48.6	50.0	97.2%
Trichloroethene	50.3	50.0	101%
Dibromochloromethane	50.5	50.0	101%
1,1,2-Trichloroethane	50.0	50.0	100%
Benzene	50.3	50.0	101%
trans-1,3-Dichloropropene	47.5	50.0	95.0%
2-Chloroethylvinylether	48.8	50.0	97.6%
Bromoform	51.0	50.0	102%
4-Methyl-2-Pentanone (MIBK)	253.	250	101%
2-Hexanone	253.	250	101%
Tetrachloroethene	50.5	50.0	101%
1,1,2,2-Tetrachloroethane	50.9	50.0	102%
Toluene	49.8	50.0	99.6%
Chlorobenzene	50.2	50.0	100%
Ethylbenzene	49.4	50.0	98.8%
Styrene	50.3	50.0	101%
Trichlorofluoromethane	47.6	50.0	95.2%
1,1,2-Trichlorotrifluoroethane	43.2	50.0	86.4%
m,p-Xylene	101.	100	101%
O-Xylene	50.5	50.0	101%

Reported in ug/L

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: BU56SB
LIMS ID: 00-10296
Matrix: Water
Data Release Authorized: MV
Reported: 07/03/00
Date Analyzed: 06/30/00
Instrument: NT3

QC Report No: BU56-ThermoRetec
Project: Nexus
Date Received: 06/23/00

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
1,2-Dichlorobenzene	49.6	50.0	99.2%
1,3-Dichlorobenzene	50.6	50.0	101%
1,4-Dichlorobenzene	50.6	50.0	101%
Acrolein	370.	250	148%
Methyl Iodide	57.6	50.0	115%
Bromoethane	49.6	50.0	99.2%
Acrylonitrile	49.2	50.0	98.4%
1,1-Dichloropropene	52.2	50.0	104%
Dibromomethane	49.6	50.0	99.2%
1,1,1,2-Tetrachloroethane	50.1	50.0	100%
1,2-Dibromo-3-chloropropane	50.1	50.0	100%
1,2,3-Trichloropropane	50.8	50.0	102%
trans-1,4-Dichloro-2-butene	48.0	50.0	96.0%
1,3,5-Trimethylbenzene	50.5	50.0	101%
1,2,4-Trimethylbenzene	50.2	50.0	100%
Hexachlorobutadiene	51.6	50.0	103%
Ethylene Dibromide	49.8	50.0	99.6%
Bromochloromethane	51.7	50.0	103%
2,2-Dichloropropane	52.2	50.0	104%
1,3-Dichloropropane	50.4	50.0	101%
Isopropylbenzene	51.8	50.0	104%
n-Propylbenzene	50.1	50.0	100%
Bromobenzene	50.8	50.0	102%
2-Chlorotoluene	50.8	50.0	102%
4-Chlorotoluene	49.4	50.0	98.8%
tert-Butylbenzene	50.1	50.0	100%
sec-Butylbenzene	50.4	50.0	101%
4-Isopropyltoluene	50.9	50.0	102%
n-Butylbenzene	49.7	50.0	99.4%
1,2,4-Trichlorobenzene	50.1	50.0	100%
Naphthalene	50.9	50.0	102%
1,2,3-Trichlorobenzene	50.8	50.0	102%

Lab Control Surrogate Recovery	
d4-1,2-Dichloroethane	98.3%
d8-Toluene	99.1%
Bromofluorobenzene	99.4%
d4-1,2-Dichlorobenzene	100%

Reported in ug/L

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: Method Blank

Lab Sample ID: 062700MB
LIMS ID: 00-10297
Matrix: Water
Data Release Authorized:
Reported: 07/05/00

QC Report No: BU56-ThermoRetec
Project: Nexus

Date Sampled: NA
Date Received: NA

Instrument: FINN1
Date Analyzed: 06/27/00 10:04

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
74-87-3	Chloromethane	1.0 U
74-83-9	Bromomethane	1.0 U
75-01-4	Vinyl Chloride	1.0 U
75-00-3	Chloroethane	1.0 U
75-09-2	Methylene Chloride	2.0 U
67-64-1	Acetone	5.0 U
75-15-0	Carbon Disulfide	1.0 U
75-35-4	1,1-Dichloroethene	1.0 U
75-34-3	1,1-Dichloroethane	1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0 U
67-66-3	Chloroform	1.0 U
107-06-2	1,2-Dichloroethane	1.0 U
78-93-3	2-Butanone	5.0 U
71-55-6	1,1,1-Trichloroethane	1.0 U
56-23-5	Carbon Tetrachloride	1.0 U
108-05-4	Vinyl Acetate	5.0 U
75-27-4	Bromodichloromethane	1.0 U
78-87-5	1,2-Dichloropropane	1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0 U
79-01-6	Trichloroethene	1.0 U
124-48-1	Dibromochloromethane	1.0 U
79-00-5	1,1,2-Trichloroethane	1.0 U
71-43-2	Benzene	1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0 U
110-75-8	2-Chloroethylvinylether	5.0 U
75-25-2	Bromoform	1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0 U
591-78-6	2-Hexanone	5.0 U
127-18-4	Tetrachloroethene	1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U
108-88-3	Toluene	1.0 U
108-90-7	Chlorobenzene	1.0 U
100-41-4	Ethylbenzene	1.0 U
100-42-5	Styrene	1.0 U
75-69-4	Trichlorofluoromethane	1.0 U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.0 U
1330-20-7	m,p-Xylene	1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: Method Blank

Lab Sample ID: 062700MB
LIMS ID: 00-10297
Matrix: Water
Data Release Authorized:
Reported: 07/05/00

QC Report No: BU56-ThermoRetec
Project: Nexus
Date Sampled: NA
Date Received: NA

Instrument: FINN1
Date Analyzed: 06/27/00 10:04

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
95-47-6	o-Xylene	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
107-02-8	Acrolein	50 U
74-88-4	Methyl Iodide	1.0 U
74-96-4	Bromoethane	2.0 U
107-13-1	Acrylonitrile	5.0 U
563-58-6	1,1-Dichloropropene	1.0 U
74-95-3	Dibromomethane	1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U
96-18-4	1,2,3-Trichloropropane	3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0 U
87-68-3	Hexachlorobutadiene	5.0 U
106-93-4	Ethylene Dibromide	1.0 U
74-97-5	Bromochloromethane	1.0 U
594-20-7	2,2-Dichloropropane	1.0 U
142-28-9	1,3-Dichloropropane	1.0 U
98-82-8	Isopropylbenzene	1.0 U
103-65-1	n-Propylbenzene	1.0 U
108-86-1	Bromobenzene	1.0 U
95-49-8	2-Chlorotoluene	1.0 U
106-43-4	4-Chlorotoluene	1.0 U
98-06-6	tert-Butylbenzene	1.0 U
135-98-8	sec-Butylbenzene	1.0 U
99-87-6	4-Isopropyltoluene	1.0 U
104-51-8	n-Butylbenzene	1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0 U
91-20-3	Naphthalene	5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	97.4%
Bromofluorobenzene	98.1%
d4-1,2-Dichlorobenzene	99.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: Trip Blank

Lab Sample ID: BU56B
LIMS ID: 00-10297
Matrix: Water
Data Release Authorized:
Reported: 07/05/00

QC Report No: BU56-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN1
Date Analyzed: 06/27/00 10:27

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
74-87-3	Chloromethane	1.0 U
74-83-9	Bromomethane	1.0 U
75-01-4	Vinyl Chloride	1.0 U
75-00-3	Chloroethane	1.0 U
75-09-2	Methylene Chloride	2.0 U
67-64-1	Acetone	5.0 U
75-15-0	Carbon Disulfide	1.0 U
75-35-4	1,1-Dichloroethene	1.0 U
75-34-3	1,1-Dichloroethane	1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0 U
67-66-3	Chloroform	1.0 U
107-06-2	1,2-Dichloroethane	1.0 U
78-93-3	2-Butanone	5.0 U
71-55-6	1,1,1-Trichloroethane	1.0 U
56-23-5	Carbon Tetrachloride	1.0 U
108-05-4	Vinyl Acetate	5.0 U
75-27-4	Bromodichloromethane	1.0 U
78-87-5	1,2-Dichloropropane	1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0 U
79-01-6	Trichloroethene	1.0 U
124-48-1	Dibromochloromethane	1.0 U
79-00-5	1,1,2-Trichloroethane	1.0 U
71-43-2	Benzene	1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0 U
110-75-8	2-Chloroethylvinylether	5.0 U
75-25-2	Bromoform	1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0 U
591-78-6	2-Hexanone	5.0 U
127-18-4	Tetrachloroethene	1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U
108-88-3	Toluene	1.0 U
108-90-7	Chlorobenzene	1.0 U
100-41-4	Ethylbenzene	1.0 U
100-42-5	Styrene	1.0 U
75-69-4	Trichlorofluoromethane	1.0 U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.0 U
1330-20-7	m,p-Xylene	1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: Trip Blank

Lab Sample ID: BU56B
LIMS ID: 00-10297
Matrix: Water
Data Release Authorized:
Reported: 07/05/00

QC Report No: BU56-ThermoRetec
Project: Nexus
Date Sampled: 06/23/00
Date Received: 06/23/00

Instrument: FINN1
Date Analyzed: 06/27/00 10:27

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
95-47-6	o-Xylene	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
107-02-8	Acrolein	50 U
74-88-4	Methyl Iodide	1.0 U
74-96-4	Bromoethane	2.0 U
107-13-1	Acrylonitrile	5.0 U
563-58-6	1,1-Dichloropropene	1.0 U
74-95-3	Dibromomethane	1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U
96-18-4	1,2,3-Trichloropropane	3.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0 U
87-68-3	Hexachlorobutadiene	5.0 U
106-93-4	Ethylene Dibromide	1.0 U
74-97-5	Bromochloromethane	1.0 U
594-20-7	2,2-Dichloropropane	1.0 U
142-28-9	1,3-Dichloropropane	1.0 U
98-82-8	Isopropylbenzene	1.0 U
103-65-1	n-Propylbenzene	1.0 U
108-86-1	Bromobenzene	1.0 U
95-49-8	2-Chlorotoluene	1.0 U
106-43-4	4-Chlorotoluene	1.0 U
98-06-6	tert-Butylbenzene	1.0 U
135-98-8	sec-Butylbenzene	1.0 U
99-87-6	4-Isopropyltoluene	1.0 U
104-51-8	n-Butylbenzene	1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0 U
91-20-3	Naphthalene	5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
d8-Toluene	95.5%
Bromofluorobenzene	95.2%
d4-1,2-Dichlorobenzene	99.7%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: BU56SB
LIMS ID: 00-10297
Matrix: Water
Data Release Authorized:
Reported: 07/05/00
Date Analyzed: 06/27/00
Instrument: FINN1

QC Report No: BU56-ThermoRetec
Project: Nexus

Date Received: 06/23/00

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
Chloromethane	36.0	50.0	72.0%
Bromomethane	50.5	50.0	101%
Vinyl Chloride	42.5	50.0	85.0%
Chloroethane	44.7	50.0	89.4%
Methylene Chloride	47.0	50.0	94.0%
Acetone	280.	250	112%
Carbon Disulfide	79.6	50.0	159%
1,1-Dichloroethene	43.3	50.0	86.6%
1,1-Dichloroethane	45.8	50.0	91.6%
trans-1,2-Dichloroethene	47.1	50.0	94.2%
cis-1,2-Dichloroethene	47.6	50.0	95.2%
Chloroform	47.7	50.0	95.4%
1,2-Dichloroethane	46.9	50.0	93.8%
2-Butanone	274.	250	110%
1,1,1-Trichloroethane	48.8	50.0	97.6%
Carbon Tetrachloride	46.2	50.0	92.4%
Vinyl Acetate	48.4	50.0	96.8%
Bromodichloromethane	45.4	50.0	90.8%
1,2-Dichloropropane	48.2	50.0	96.4%
cis-1,3-Dichloropropene	44.9	50.0	89.8%
Trichloroethene	45.7	50.0	91.4%
Dibromochloromethane	45.8	50.0	91.6%
1,1,2-Trichloroethane	47.1	50.0	94.2%
Benzene	46.9	50.0	93.8%
trans-1,3-Dichloropropene	44.2	50.0	88.4%
2-Chloroethylvinylether	53.4	50.0	107%
Bromoform	47.3	50.0	94.6%
4-Methyl-2-Pentanone (MIBK)	264.	250	106%
2-Hexanone	263.	250	105%
Tetrachloroethene	47.6	50.0	95.2%
1,1,2,2-Tetrachloroethane	48.2	50.0	96.4%
Toluene	46.3	50.0	92.6%
Chlorobenzene	45.1	50.0	90.2%
Ethylbenzene	46.6	50.0	93.2%
Styrene	46.8	50.0	93.6%
Trichlorofluoromethane	43.8	50.0	87.6%
1,1,2-Trichlorotrifluoroethane	62.8	50.0	126%
m,p-Xylene	92.4	100	92.4%
O-Xylene	46.8	50.0	93.6%

Reported in ug/L

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: BU56SB
LIMS ID: 00-10297
Matrix: Water
Data Release Authorized:
Reported: 07/05/00
Date Analyzed: 06/27/00
Instrument: FINN1

QC Report No: BU56-ThermoRetec
Project: Nexus
Date Received: 06/23/00

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
1,2-Dichlorobenzene	46.7	50.0	93.4%
1,3-Dichlorobenzene	48.6	50.0	97.2%
1,4-Dichlorobenzene	47.2	50.0	94.4%
Acrolein	322.	250	129%
Methyl Iodide	60.6	50.0	121%
Bromoethane	64.2	50.0	128%
Acrylonitrile	55.7	50.0	111%
1,1-Dichloropropene	48.1	50.0	96.2%
Dibromomethane	46.2	50.0	92.4%
1,1,1,2-Tetrachloroethane	45.7	50.0	91.4%
1,2-Dibromo-3-chloropropane	48.8	50.0	97.6%
1,2,3-Trichloropropane	48.8	50.0	97.6%
trans-1,4-Dichloro-2-butene	52.6	50.0	105%
1,3,5-Trimethylbenzene	47.8	50.0	95.6%
1,2,4-Trimethylbenzene	49.3	50.0	98.6%
Hexachlorobutadiene	45.6	50.0	91.2%
Ethylene Dibromide	45.9	50.0	91.8%
Bromochloromethane	47.1	50.0	94.2%
2,2-Dichloropropane	49.6	50.0	99.2%
1,3-Dichloropropane	47.4	50.0	94.8%
Isopropylbenzene	48.0	50.0	96.0%
n-Propylbenzene	46.8	50.0	93.6%
Bromobenzene	48.3	50.0	96.6%
2-Chlorotoluene	48.8	50.0	97.6%
4-Chlorotoluene	47.4	50.0	94.8%
tert-Butylbenzene	47.5	50.0	95.0%
sec-Butylbenzene	48.4	50.0	96.8%
4-Isopropyltoluene	47.4	50.0	94.8%
n-Butylbenzene	47.8	50.0	95.6%
1,2,4-Trichlorobenzene	47.7	50.0	95.4%
Naphthalene	47.7	50.0	95.4%
1,2,3-Trichlorobenzene	46.7	50.0	93.4%

Lab Control Surrogate Recovery	
d4-1,2-Dichloroethane	103%
d8-Toluene	99.1%
Bromofluorobenzene	98.4%
d4-1,2-Dichlorobenzene	101%

Reported in ug/L

Attachment E

Excerpts from Previous Studies

AMERICAN LINEN SUPPLY COMPANY/SEATTLE PLANT CONTAMINATION

I. Summary of Environmental Site Assessment

An environmental site assessment has been conducted at American Linen Supply Company's Seattle plant site located at 771 Valley Street, Seattle, Washington. The facility is a commercial laundry that occupies approximately 1.4 acres of land. The location of the site is shown on Figure 1.

The results of soil and groundwater sampling indicate the presence of hazardous substance in site soils and groundwater. Concentrations of several hazardous substances, including tetrachloroethylene and benzene, were detected. The sources of the substances appear to be a former dry cleaning operation and underground storage tanks that were removed several years ago, as well as off-site sources.

II. Summary of Findings

Constituents associated with fuels were detected in five of the six groundwater monitoring wells. The highest concentrations were detected in wells MW-1, MW-2 and MW-3, which are located in the area where underground storage tanks used to be. Gasoline, diesel and "heavier" range hydrocarbons were detected in these wells. Lower concentrations of gasoline and diesel range hydrocarbons were detected in wells MW-4 and MW-5. The location of this contamination indicates an off-site source.

Solvents typical of dry-cleaning operations were detected in wells MW-1, MW-4 and MW-6. The highest concentrations were detected in well MW-6, which is downgradient of the portion of the site where dry-cleaning operations were formerly conducted.

A summary of water level measurements and water quality data is attached hereto as Figures 2 and 3.

III. Status of Department of Ecology Investigations

ALS submitted a report on Seattle plant environmental site assessment to the Washington Department of Ecology's Toxics Cleanup Division. Ecology personnel have scheduled a site tour to begin the hazard ranking process under the Washington Model Toxics Control Act.

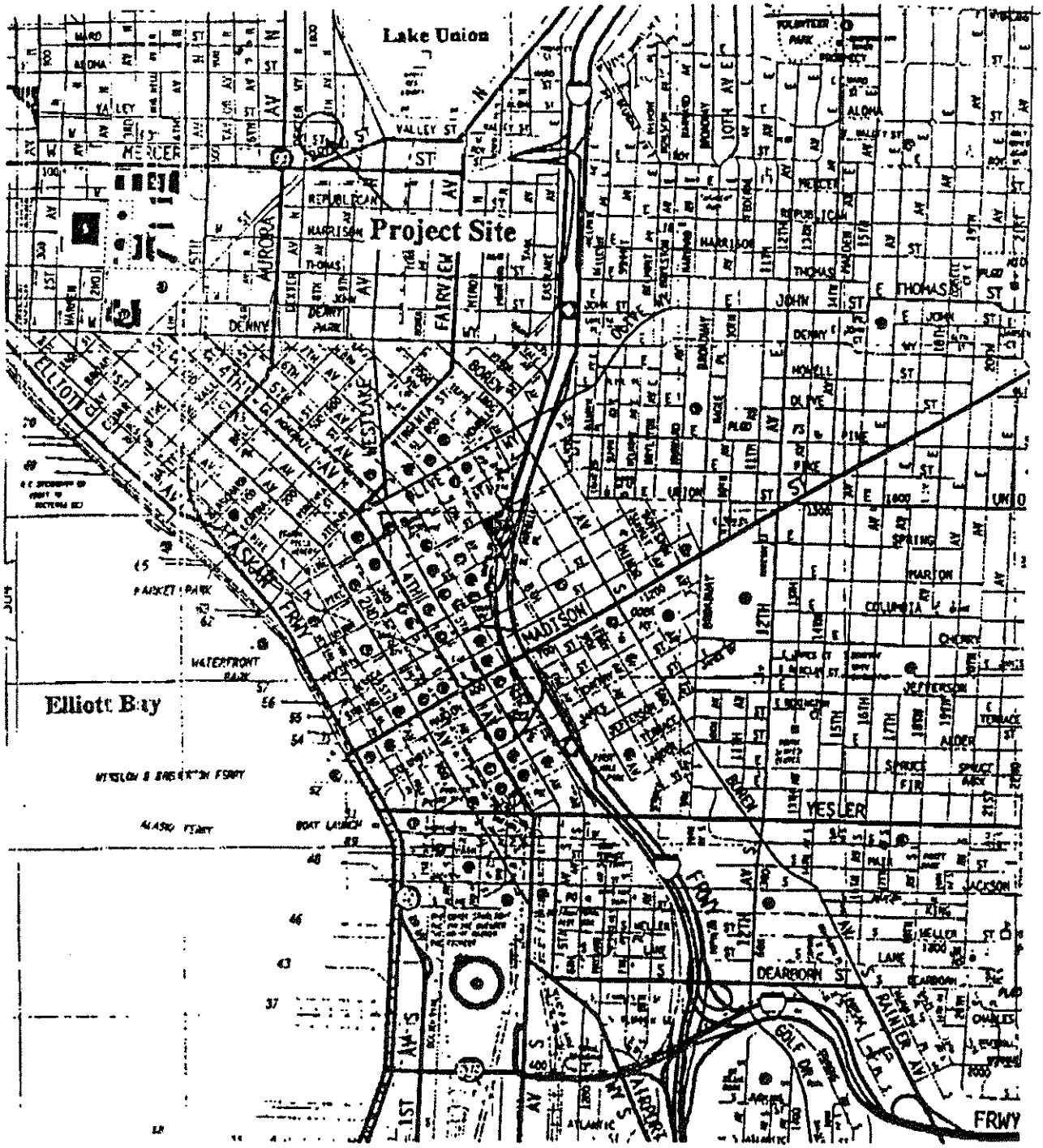
IV. RI/FS and Site Cleanup Issues

Ecology is likely to require that ALS perform an initial phase of site investigations, including quarterly or semi-annual monitoring of groundwater, and the installation of soil borings to further characterize the extent and nature of source soil contamination. Ecology may require additional soil and

groundwater investigations, and the performance of a feasibility study.

Interim and final cleanup actions required by Ecology could include soil excavation, treatment and disposal, and groundwater extraction and treatment.

There is not sufficient information at this time to predict accurately RI/FS and cleanup action costs that will be incurred by ALS. Nonetheless, given the presence of hazardous substances in the soil and groundwater at levels in excess of State cleanup standards, it is possible that total environmental investigation and cleanup costs could exceed the net book value of ALS.



Maryatt Industries, Inc.
Seattle, Washington

Vicinity Map

HEW-016 **FIGURE 1** December 1992

Dalton, Olmsted & Fuglevand, Inc.

Table 1 - Summary of Water Level Measurements

Well No.	Date	TOC Elevation (a)	Depth to Water	Water Level Elevation (a)
MW-1				
	10-23-92	28.11	7.11	21.00
	10-24-92	28.11	7.15	20.96
	10-27-92	28.11	7.36	20.75
	10-28-92	28.11	7.38	20.73
MW-2				
	10-23-92	30.86	10.00	20.86
	10-24-92	30.86	10.04	20.82
	10-27-92	30.86	10.13	20.73
	10-28-92	30.86	10.15	20.71
MW-3				
	10-23-92	32.04	11.25	20.79
	10-24-92	32.04	11.29	20.75
	10-27-92	32.04	11.39	20.65
	10-28-92	32.04	11.41	20.63
MW-4				
	10-24-92	40.94	21.99	18.95
	10-27-92	40.94	21.93	19.01
	10-28-92	40.94	21.93	19.01
MW-5				
	10-28-92	47.20	22.89	24.31
MW-6				
	10-28-92	35.39	17.85	17.54

Notes: (a) - Elevation in feet relative to sea level.
TOC = Top of PVC Casing
Source: ROUX Associates, Inc.

Maryatt Industries, Inc.
Seattle, Washington

Table 2 - Summary of Water Quality Data

Well	[illegible]	[illegible]	[illegible]	MW-2	MW-2	[illegible]	[illegible]	MW-4	MW-4	MW-4	MW-4
Sampling Date	[illegible]	[illegible]	[illegible]	10-24-92	10-24-92	[illegible]	[illegible]	10-24-92	10-24-92	11-3-92	11-5-92
Sampler	[illegible]	[illegible]	[illegible]	ROUX	DOF	[illegible]	[illegible]	ROUX	DOF	DOF	DOF
Constituent											
Tetrachloroethylene	0.003	0.0042	0.038	<0.005	---	<0.005	---	0.814	---	0.031	0.03
Total 1,2-Dichloroethene	---	0.012	0.042	---	---	---	---	---	---	<0.002	<0.002
Trichloroethene	<0.005	0.0008	<0.020	<0.005	---	<0.005	---	0.069	---	0.0028	0.0028
Vinyl Chloride	0.1	0.17	0.21	<0.005	---	<0.005	---	<0.005	---	<0.002	<0.002
Benzene	0.001	0.0006	<0.020	0.48	0.31	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.002
Toluene	0.001	0.0008	<0.020	0.017	<0.0005	<0.0005	<0.0005	0.002	0.0018	<0.002	<0.002
Ethylbenzene	<0.0005	<0.0005	<0.020	0.23	0.14	<0.0005	<0.0005	0.001	<0.0005	<0.002	<0.002
Xylenes	<0.0005	<0.0005	<0.020	0.3	0.18	<0.0005	<0.0005	0.004	0.0031	<0.002	<0.002
TPH-Gasoline	0.057	0.053	---	4.2	4	0.087	<0.050	0.41	0.64	---	---
TPH-Diesel	1.3	26	---	10.54	16	3.018	---	0.201	---	---	---
TPH-418.1	6	12	---	2	25	1.2	---	<1	---	---	---
Naphthalene	nd	---	---	0.03	---	nd	---	nd	---	---	---
2-Methylnaphthalene	nd	---	---	0.018	---	nd	---	nd	---	---	---

Well	[illegible]	[illegible]	MW-6	MW-6	MW-6
Sampling Date	[illegible]	[illegible]	10-28-92	11-3-92	11-5-92
Sampler	[illegible]	[illegible]	ROUX	DOF	DOF
Constituent					
Tetrachloroethylene	nd	<0.002	4.5	0.69	1.1
Total 1,2-Dichloroethene	---	<0.002	---	0.52	0.83
Trichloroethene	nd	<0.002	0.92	0.16	0.27
Vinyl Chloride	nd	<0.002	0.24	<0.040	0.068
Benzene	<0.0005	<0.002	<0.0005	<0.040	<0.040
Toluene	0.001	<0.002	0.002	<0.040	<0.040
Ethylbenzene	<0.0005	<0.002	<0.0005	<0.040	<0.040
Xylenes	<0.0005	<0.002	0.002	<0.040	<0.040
TPH-Gasoline	0.093	---	<0.05	---	---
TPH-Diesel	0.086	---	<0.05	---	---
TPH-418.1	<1	---	<1	---	---
Naphthalene	nd	---	nd	---	---
2-Methylnaphthalene	nd	---	nd	---	---

MCL B mg/L

Notes:
All units in mg/l or ppm
0.8008 (B) nd = not detected
0.0005 (B) --- = not analyzed
0.005 (A)
0.00002 (B) See Table 3 for summary
0.0002 (A) of analytical methods

Table 3 - Summary of Analytical Methods

	Sampler	Laboratory	EPA 8020	EPA 8240	EPA 8010	CCA 8270	NWTPH-G	NWTPH-Dx	NWTPH-HCID
MW-1									
10-24-92	ROUX	NET	x	x	—	x	x	x	x
10-24-92	DOF	NCA	x	—	x	—	x	x	x
11-5-92	DOF	NCA	—	x(a)	—	—	—	—	—
MW-2									
10-24-92	ROUX	NET	x	x	—	x	x	x	x
10-24-92	DOF	NCA	x	—	—	—	x	x	x
MW-3									
10-24-92	ROUX	NET	x	x	—	x	x	x	x
10-24-92	DOF	NCA	x	—	—	—	x	—	—
MW-4									
10-24-92	ROUX	NET	x	x	—	x	x	x	x
10-24-92	DOF	NCA	x	—	—	—	x	—	—
11-3-92	DOF	NCA	—	x(a)	—	—	—	—	—
11-5-92	DOF	NCA	—	x(a)	—	—	—	—	—
MW-5									
10-28-92	ROUX	NET	x	x	—	x	x	x	x
11-5-92	DOF	NCA	—	x(a)	—	—	—	—	—
MW-6									
10-28-92	ROUX	NET	x	x	—	x	x	x	x
11-3-92	DOF	NCA	—	x(a)	—	—	—	—	—
11-5-92	DOF	NCA	—	x(a)	—	—	—	—	—

Notes: ROUX Associates, Inc. - Concord, CA
DOF - Dalton, Olmsted & Fuglevand, Inc. - Bothell, WA
NET - National Environmental Testing, Inc. - Portland, OR
NCA - North Creek Analytical, Inc. - Bothell, WA
x = Sampled Analyzed for Indicated Method
(a) - Combined Methods EPA 8240/8260
— = Sampled Not Analyzed for Indicated Method

ROUX

ENVIRONMENTAL CONSULTING
AND MANAGEMENT

Number of pages including cover sheet: 12

ROUX ASSOCIATES

55 Gateway Boulevard
ite 770
Concord, California 94520

FAX TRANSMITTAL

Date: 11/2/92

To: CHUCK MARYATT

Company: MARYATT INDUSTRIES

FAX No: 206 / 285 - 3345

From: BRAD HALL

oject No. 2620.1W01

Roux Associates, Inc.
Fax No: (510) 687-1258
Phone No: (510) 602-2333

ments: ATTACHED ARE THE DATA TABLES AND WELL LOGS FOR WELLS MW1 THROUGH MW6

NATIONAL ENVIRONMENTAL TESTING, INC.

Portland Division
17400 SW Upper Boones Ferry Rd.
Suite #250
Portland, OR 97224
Tel: (503) 624-5449
Fax: (503) 639-6889

Todd Ramsden
Roux Associates, Inc.
1655 Gateway Bl., Ste. 770
Concord, CA 94520

Project: 26203W02
Location: Cintas
NET #: 92.247909

Dear Todd,

Enclosed are the results I have for the Cintas project. The results are finales for all analytical parameters except for EPA 8270. Our semivolitiles GC/MS crashed during this run and only the quantitation report for sample MW-2 is valid. NET with assistance of Hewlett Packard are trying to fix the system failure. I am express shipping the half of each 8270 extract to another NET laboratory for analysis. I will give you data as soon as I it is available. I expect data will be in late thursday the 29th.

Sincerely,

Kent Patton
Portland Division Manager

Brad Hall
Roux Associates, Inc.
1855 Gateway Bl., Ste. 770
Concord, CA 94520

Date: 10/28/1992
NET Client Acct. No: 54450
NET Pacific Job No: 92.24709
Received: 10/25/1992

Project: 26203W02
Location: Cintas

Dear Mr. Brad Hall:

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Kent Patton
Portland Division Manager

Enclosure(s)

PRELIMINARY REPORT

Roux Associates, Inc.
Concord, CA 94520

NET Log: 92.24709
Date: 10/28/1992

Project: 26203W02
Location: Cintas
Contact: Brad Hall
Matrix: Water

Received: 10/25/1992
Extracted: 10/25/1992

METHOD: EPA 418.1 (W)
Reporting Limit: 1 mg/L

Sample Number	Sample ID	EPA 418.1 (W) Test Results	Units	Dilution Factor	Date Analyzed	Date Sampled
13010	MW-1	6	mg/L	1	10/26/1992	10/24/1992
13011	MW-2	2.0	mg/L	1	10/26/1992	10/24/1992
13012	MW-3	1.2	mg/L	1	10/26/1992	10/24/1992
13013	MW-4	ND	mg/L	1	10/26/1992	10/24/1992

PRELIMINARY REPORT

Roux Associates, Inc.
Concord, CA 94520

NET Log: 92.24709
Date: 10/28/1992

Project: 26203U02
Location: Cintas
Contact: Brad Hall
Matrix: Water

Sample Number:				13010	13011	13012	13013
Sample Description:				MW-1	MW-2	MW-3	MW-4
Date Sampled:				10/24/1992	10/24/1992	10/24/1992	10/24/1992
Parameter	Method	Report Limit	Units	Results	Results	Results	Results
BTEX (W)							
Date Analyzed		-		10/26/92	10/26/92	10/26/92	10/26/92
Dilution Factor		-		1	10	1	1
Benzene	8020	0.5	ug/L	1	430	ND	ND
Toluene	8020	0.5	ug/L	1	17	ND	2
Ethylbenzene	8020	0.5	ug/L	ND	230	ND	1
Xylenes	8020	0.5	ug/L	ND	300	ND	4
Surrogate Recovery							
aaa-Trifluorotoluene	8020	-	%	99	101	99	97

Roux Associates, Inc.
Concord, CA 94520

NET Log: 92.24709
Date: 10/28/1992

Project: 26203M02
Location: Cintas
Contact: Brad Hall
Matrix: Water

Sample Number:	13010	13011	13012	13013
Sample Description:	MW-1	MW-2	MW-3	MW-4
Date Sampled:	10/24/1992	10/24/1992	10/24/1992	10/24/1992

Parameter	Method	Report Limit	Units	Results	Results	Results	Results
8015M TPH-GAS (W)							
Date Analyzed		-		10/26/92	10/26/92	10/26/92	10/26/92
Dilution Factor		-		1	10	1	1
TPH-Gas	8015M	50	ug/L	57	4,200	87	610
Surrogate Recovery							
aaa-Trifluorotoluene	8015M	-	%	99	101	99	97

Roux Associates, Inc.
Concord, CA 94520

SET Log: 92.84709
Date: 10/28/1992

Project: 26203402
Location: Cintas
Contact: Brad Hall
Matrix: Water

Sample Number:	13010	13011	13012	13013
Sample Description:	MW-1	MW-2	MW-3	MW-4
Date Sampled:	10/24/1992	10/24/1992	10/24/1992	10/24/1992

Parameter	Method	Report Limit	Units	Results	Results	Results	Results
8015M TPH-Diesel (W)							
Date Analyzed		-		10/26/92	10/26/92	10/26/92	10/26/92
Dilution Factor		-		10	10	1	1
Diesel	8015M	50	ug/L	1,345	10,540	3,013	291
Surrogate Recovery							
o-Terphenyl	8015M	-	%	62	N.I.	73	61

N.I.= Matrix Interference

PRELIMINARY REPORT

Roux Associates, Inc.
Concord, CA 94520

NET Log: 92.24709
Date: 10/28/1992

Project: 2620Bx02
Location: Cintas
Contact: Brad Hall
Matrix: Water

Sample Number:	13010	13011	13012	13013
Sample Description:	MW-1	MW-2	MW-3	MW-4
Date Sampled:	10/24/1992	10/24/1992	10/24/1992	10/24/1992

Parameter	Method	Report Limit	Units	Results	Results	Results	Results
8240 VOL/PURGEABLES (W) PREP		-		-	-	-	-
8240 VOLATILES/PURGEABLES							
Date Analyzed		-		10/26/92	10/26/92	10/26/92	10/26/92
Dilution Factor		-		1	10	1	10
Acetone	8240	10	ug/L	ND	ND	ND	ND
Benzene	8240	5	ug/L	ND	684	ND	ND
Bromodichloromethane	8240	5	ug/L	ND	ND	ND	ND
Bromoform	8240	5	ug/L	ND	ND	ND	ND
Bromomethane	8240	5	ug/L	ND	ND	ND	ND
2-Butanone	8240	10	ug/L	ND	ND	ND	ND
Carbon disulfide	8240	5	ug/L	ND	ND	ND	ND
Carbon tetrachloride	8240	5	ug/L	ND	ND	ND	ND
Chlorobenzene	8240	5	ug/L	ND	ND	ND	ND
Chloroethane	8240	5	ug/L	ND	ND	ND	ND
2-Chloroethylvinyl ether	8240	10	ug/L	ND	ND	ND	ND
Chloroform	8240	5	ug/L	ND	ND	ND	ND
Chloromethane	8240	5	ug/L	ND	ND	ND	ND
Dibromochloromethane	8240	5	ug/L	ND	ND	ND	ND
1,2-Dichlorobenzene	8240	6	ug/L	ND	ND	ND	ND
1,3-Dichlorobenzene	8240	4	ug/L	ND	ND	ND	ND
1,4-Dichlorobenzene	8240	4	ug/L	ND	ND	ND	ND
1,1-Dichloroethane	8240	5	ug/L	ND	ND	ND	ND
1,2-Dichloroethane	8240	5	ug/L	ND	ND	ND	ND
1,1-Dichloroethene	8240	5	ug/L	ND	ND	ND	ND
trans-1,2-Dichloroethene	8240	5	ug/L	ND	ND	ND	ND
1,2-Dichloropropane	8240	5	ug/L	ND	ND	ND	ND
cis-1,3-Dichloropropene	8240	5	ug/L	ND	ND	ND	ND
trans-1,3-Dichloropropene	8240	5	ug/L	ND	ND	ND	ND
Ethylbenzene	8240	5	ug/L	ND	301	ND	ND
2-Hexanone	8240	10	ug/L	ND	ND	ND	ND

Roux Associates, Inc.
Concord, CA 94520

NET Log: 92.24709
Date: 10/28/1992

Project: 26203602
Location: Cintas
Contact: Brad Hall
Matrix: Water

Sample Number:	13010	13011	13012	13013
Sample Description:	MW-1	MW-2	MW-3	MW-4
Date Sampled:	10/24/1992	10/24/1992	10/24/1992	10/24/1992

Parameter	Method	Report Limit	Units	Results	Results	Results	Results
Methylene chloride	8240	5	ug/L	ND	ND	ND	ND
4-Methyl-2-pentanone	8240	10	ug/L	ND	ND	ND	ND
Styrene	8240	5	ug/L	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	8240	5	ug/L	ND	ND	ND	ND
Tetrachloroethene	8240	5	ug/L	ND	ND	ND	816
Toluene	8240	5	ug/L	ND	15	ND	ND
1,1,1-Trichloroethane	8240	5	ug/L	ND	ND	ND	ND
1,1,2-Trichloroethane	8240	5	ug/L	ND	ND	ND	ND
Trichloroethene	8240	5	ug/L	ND	ND	ND	44
Trichlorofluoromethane	8240	5	ug/L	ND	ND	ND	ND
Vinyl acetate	8240	10	ug/L	ND	ND	ND	ND
Vinyl chloride	8240	5	ug/L	100	ND	ND	ND
Xylenes, total	8240	5	ug/L	ND	403	ND	ND
Surrogate Recovery							
Toluene-d8	8240	-	%	97	99	97	98
Bromofluorobenzene	8240	-	%	95	95	97	92
1,2-Dichloroethane-d4	8240	-	%	87	87	90	91

PRELIMINARY REPORT

Roux Associates, Inc.
Concord, CA 94520

NET Log: 92.24709
Date: 10/28/1992

Project: 26203W02
Location: Cintas
Contact: Brad Hall
Matrix: Water

Sample Number: 13811
Sample Description: MW-2
Date Sampled: 10/24/1992

Parameter	Method	Report Limit	Units	Results
BNA - 8270 AQUEOUS				
Date Analyzed		-		10/25/92
Acenaphthene	8270	10	ug/L	ND
Acenaphthylene	8270	10	ug/L	ND
Anthracene	8270	10	ug/L	ND
Benzidine	8270	50	ug/L	ND
Benzo(a)anthracene	8270	10	ug/L	ND
Benzo(b)fluoranthene	8270	10	ug/L	ND
Benzo(k)fluoranthene	8270	10	ug/L	ND
Benzo(a)pyrene	8270	10	ug/L	ND
Benzo(ghi)perylene	8270	10	ug/L	ND
Benzyl butyl phthalate	8270	10	ug/L	ND
Bis(2-chloroethyl)ether	8270	10	ug/L	ND
Bis(2-chloroethoxy)meth.	8270	10	ug/L	ND
Bis(2-ethylhexyl)phthal.	8270	10	ug/L	ND
Bis(2chloroisopropyl)eth.	8270	10	ug/L	ND
4-Bromophenyl phenyl eth.	8270	10	ug/L	ND
2-Chloronaphthalene	8270	10	ug/L	ND
4-Chlorophenylphenyl eth.	8270	10	ug/L	ND
Chrysene	8270	10	ug/L	ND
Dibenzo(a,h)anthracene	8270	10	ug/L	ND
Di-n-butylphthalate	8270	10	ug/L	ND
1,3-Dichlorobenzene	8270	10	ug/L	ND
1,2-Dichlorobenzene	8270	10	ug/L	ND
1,4-Dichlorobenzene	8270	10	ug/L	ND
3,3-Dichlorobenzidine	8270	20	ug/L	ND
Diethyl phthalate	8270	10	ug/L	ND
1,2-Diphenylhydrazine	8270	10	ug/L	ND
Dimethyl phthalate	8270	10	ug/L	ND
2,4-Dinitrotoluene	8270	10	ug/L	ND
2,6-Dinitrotoluene	8270	10	ug/L	ND

Roux Associates, Inc.
Concord, CA 94520

NET Log: 92.24709
Date: 10/28/1992

Project: 26203W02
Location: Cintas
Contact: Brad Hall
Matrix: Water

Sample Number: 13011
Sample Description: MW-2
Date Sampled: 10/24/1992

Parameter	Method	Report Limit	Units	Results
Di-n-octylphthalate	8270	10	ug/L	ND
Fluoranthene	8270	10	ug/L	ND
Fluorene	8270	10	ug/L	ND
Hexachlorobenzene	8270	10	ug/L	ND
Hexachloro-1,3-butadiene	8270	10	ug/L	ND
Hexachlorocyclopentadiene	8270	25	ug/L	ND
Hexachloroethane	8270	10	ug/L	ND
Indeno(1,2,3-cd)pyrene	8270	10	ug/L	ND
Isophorone	8270	10	ug/L	ND
Naphthalene	8270	10	ug/L	51
Nitrobenzene	8270	10	ug/L	ND
N-Nitrosodimethylamine	8270	10	ug/L	ND
N-Nitrosodiphenylamine	8270	10	ug/L	ND
N-Nitrosodi-n-propylamine	8270	10	ug/L	ND
Phenanthrene	8270	5	ug/L	6
Pyrene	8270	10	ug/L	ND
1,2,4-Trichlorobenzene	8270	10	ug/L	ND
4-Chloro-3-methylphenol	8270	10	ug/L	ND
2-chlorophenol	8270	10	ug/L	ND
2,4-Dichlorophenol	8270	10	ug/L	ND
2,4-Dimethylphenol	8270	10	ug/L	ND
2,4-Dinitrophenol	8270	50	ug/L	ND
2-Methyl-4,6-dinitrophen.	8270	50	ug/L	ND
2-Nitrophenol	8270	10	ug/L	ND
4-Nitrophenol	8270	50	ug/L	ND
Pentachlorophenol	8270	50	ug/L	ND
Phenol	8270	10	ug/L	ND
2,4,6-Trichlorophenol	8270	10	ug/L	ND
Surrogate Recovery				
Nitrobenzene-d5	8270	-	%	101
2-Fluorobiphenyl	8270	-	%	66
Terphenyl-d14	8270	-	%	84
Phenol-d6	8270	-	%	39
2-Fluorophenol	8270	-	%	65
Tribromophenol	8270	-	%	58

PRELIMINARY REPORT

TABLE 1: Summary of Ground Water Analyses: Petroleum Hydrocarbons
Maryatt Industries, 773 Valley Street, Seattle, Washington

Sample Designation	Date	TPH-G	TPH-D	BTEX Distinction				O&G
				Benzene	Toluene	Ethylbenzene	Xylenes	
MW1	10/24/92	57	1,345	1	1	ND	ND	6,000
MW2	10/24/92	4,200	10,540	480	17	230	300	2,000
MW3	10/24/92	87	3,015	ND	ND	ND	ND	1,200
MW4	10/24/92	410	201	ND	2	1	4	ND
MW5	10/28/92	93	86	ND	1	ND	ND	ND
MW6	10/28/92	ND	ND	ND	2	ND	2	ND

FOOTNOTES

All concentrations reported in ug/kg (ppb)
TPH-G = Total Petroleum Hydrocarbons As Gasoline (Washington Modified USEPA Method 8015)
TPH-D = Total Petroleum Hydrocarbons As Diesel (Washington Modified USEPA Method 8015)
O&G = Heavy Petroleum Oil (Washington Modified USEPA Method 418.1)
BTEX Distinction (USEPA Method 8020)
ND = Not detected (for detection limits see laboratory reports, Appendix B).

TABLE 2: Summary of Ground Water Analyses: Volatile and Semi-volatile Organic Compounds
Maryatt Industries, 773 Valley Street, Seattle, Washington

Sample Designation	Date	VOCs			S-VOCs	
		VCl	PCE	TCE	2-Meth	Naph
MW1	10/24/92	100	3	ND	ND	ND
MW2	10/24/92	ND	ND	ND	18	30
MW3	10/24/92	ND	ND	ND	ND	ND
MW4	10/24/92	ND	814	69	ND	ND
MW5	10/28/92	ND	ND	ND	ND	ND
MW6	10/28/92	240	4,500	920	ND	ND

DRAFT

FOOTNOTES
All concentrations reported in ug/kg (ppb)
VOCs = Volatile Organic Compounds (USEPA Method 8240)
VCl = Vinyl Chloride
PCE = Tetrachloroethene
TCE = Trichlorothene
S-VOCs = Semi-volatile Organic Compounds (USEPA Method 8270)
2-Meth = 2-Methylnaphthalene
Naph = Naphthalene
All VOCs and S-VOCs below detection limits except those listed in the table
ND = Not detected (for detection limits see laboratory reports, Appendix B).

Table 3: Water Level Measurements

Maryat: Industries, 773 Valley Street, Seattle, Washington

Well Number	Date Measured	Measuring Point Elevation (1)	Depth to Water (feet)	Water Level Elevation (1)
MW1	10/23/92	28.11	7.11	21.00
	10/24/92	28.11	7.15	20.96
	10/27/92	28.11	7.36	20.75
	10/28/92	28.11	7.38	20.73
MW2	10/23/92	30.86	10.00	20.86
	10/24/92	30.86	10.04	20.82
	10/27/92	30.86	10.13	20.73
	10/28/92	30.86	10.15	20.71
MW3	10/23/92	32.04	11.25	20.79
	10/24/92	32.04	11.29	20.75
	10/27/92	32.04	11.39	20.65
	10/28/92	32.04	11.41	20.63
MW4	10/24/92	40.94	21.99	18.95
	10/27/92	40.94	21.93	19.01
	10/28/92	40.94	21.93	19.01
MW5	10/28/92	47.20	22.89	24.31
MW6	10/28/92	35.39	17.85	17.54

DRAFT

FOOTNOTES

(1) = Elevation in feet relative to mean sea level.

ROUX

Project: Maryatt Industries
773 Valley Street, Seattle, Washington

Log of Well No. MW1

Date Started: 10/22/92 Completed: 10/22/92

Logged By: T. Ramsden Checked By: BH

Drilling Co: Tacoma Pump & Drilling

Drilling Method: Hollow-stem Auger

Drilling Equipment: Mobile B-56

Sampler: Split Spoon

Measuring Point Elevation (ft): 28.11 Total Depth (ft): 16.5

Water Level During Drilling (ft): 8.3 Stabilized (ft): 7.4

Casing: Schedule 40 PVC Drill Bit Diameter (in): 10"

Perforation: 0.010 Slot from 14 ft to 4 ft

Pack: 10-20 Sand from 15 ft to 3.5 ft

Seal: Bentonite from 3.5 ft to 1.5 ft

Cement from 1.5 ft to 0 ft

Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OVM (ppm)	Recovery (%)	REMARKS
5	FILL 50% sand and silt 50% bricks, concrete blocks, railroad spikes, etc. Dark black, wet clay. Tarry appearance, no odor.				7 10 10	0	75	
10	Sandy SILT Red and black, fine grained sand, 15% fine gravel, very wet, no odor (Fill?)	SM			8 16 12		55	
15	SAND Grey-green, medium to coarse grained, 10% fine gravel, 15% clay mostly well rounded, saturated. SAND Medium to coarse, metallic gold colored biotite. Possible oily sheen on soil.	SW			23 28 34			
20								
25								
30								
35								

DRAFT

Project: 26203V/02 Roux Associates

of

ROUX

Project: Maryatt Industries 773 Valley Street, Seattle, Washington	Log of Well No. MW2
Date Started: 10/22/92 Completed: 10/22/92	Measuring Point Elevation (ft): 30.86 Total Depth (ft): 15.0
Logged By: T. Ramsden Checked By: BH	Water Level During Drilling (ft): 10.6 Stabilized (ft): 10.2
Drilling Co: Tacoma Pump & Drilling	Casing: Schedule 40 PVC Drill Bit Diameter (in): 10"
Drilling Method: Hollow-stem Auger	Perforation: 0.010 Slot from 15 ft to 5 ft
Drilling Equipment: Mobile B-56	Pack: 10-20 Sand from 15 ft to 4 ft
Sampler: Split Spoon	Seal: Bentonite from 4 ft to 1.5 ft
	Cement from 1.5 ft to 0 ft

Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OVM (ppm)	Recovery (%)	REMARKS
5	FILL Clay, sand, bricks, concrete blocks.				4 5 8		95	
10	SILT Medium greenish-tan, abundant orange mottling, moist, cohesive, no odor, <10% wood fragments.	SM			4 6 8		70	
15	Sandy SILT Medium green to brown, very moist, cohesive, moderate hydrocarbon odor. (Fill?) Silty SAND Mottled orange-brown and dark green, medium grained, saturated, weak hydrocarbon odor. (Fill?)						30	
20								
25								
30								
35								

DRAFT

ROUX

Project: Maryatt Industries
773 Valley Street, Seattle, Washington

Log of Well No. MW3

Date Started: 10/22/92 Completed: 10/22/92

Logged By: T. Ramsden Checked By: BH

Drilling Co: Tacoma Pump & Drilling

Drilling Method: Hollow-stem Auger

Drilling Equipment: Mobile B-56

Sampler: Split Spoon

Measuring Point Elevation (ft): 32.04 Total Depth (ft): 17.0

Water Level During Drilling (ft): 12.0 Stabilized (ft): 11.4

Casing: Schedule 40 PVC Drill Bit Diameter (in): 10"

Perforation: 0.010 Slot from 17 ft to 7 ft

Pack: 10-20 Sand from 17 ft to 6 ft

Seal: Bentonite from 6 ft to 1.5 ft

Cement from 1.5 ft to 0 ft

Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OVM (ppm)	Recovery (%)	REMARKS
5	Silty Sand Fill Light green-brown, moist, slightly cohesive, no odor.				10		30	
	Sandy Silt Fill Dark brown to green, very moist, cohesive, no odor.				14			
					10			
10	Silty Sand Fill Tan, fine to medium grained, <10% fine gravel, moist, cohesive, no odor				4		95	
					5			
					10			
15	Silt and Sand Fill Medium brown to black, broken glass fragments, some gravel, wet, cohesive, very weak hydrocarbon odor.				5		70	
					10			
					21			
20								
25								
30								
35								

DRAFT

Project: 26203W02

Roux Associates

ROUX

Project: Maryatt Industries 773 Valley Street, Seattle, Washington	Log of Well No. MW4
Date Started: 10/23/92 Completed: 10/23/92	Measuring Point Elevation (ft): 40.94 Total Depth (ft): 36.5
Logged By: T. Ramsden Checked By: BH	Water Level During Drilling (ft): 26.0 Stabilized (ft): 21.9
Drilling Co: Tacoma Pump & Drilling	Casing: Schedule 40 PVC Drill Bit Diameter (in): 10"
Drilling Method: Hollow-stem Auger	Perforation: 0.010 Slot from 30 ft to 15 ft
Drilling Equipment: Mobile B-56	Pack: 10-20 Sand from 30.5 ft to 12.5 ft
Sampler: Split Spoon	Seal: Bentonite from 12.5 ft to 2 ft
	Cement from 2 ft to 0 ft

Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OVM (ppm)	Recovery (%)	REMARKS
5	FILL Brown silt, sand, gravel with large concrete blocks near surface.				44 50/2"		75	
0		SM			50/2"		0	
-5	Silty SAND Medium grained.							
-10	Silty SAND Brown, 10% gravel up 1", moist, slightly loose, no odor.				20 50/4"	0	100	
-15	Silty SAND Dark brown, 5-10% gravel, very moist, cohesive, no odo				25/2"		0	DRAFT
-20		ML						
-25	Sandy SILT Brown, <10% fine gravel, no odor, moist, cohesive.				50/4"		100	
-30	Sandy SILT Gray-green, <5% fine gravel, very moist, hard, no odor.				50/6"		100	
-35		SP						
	Silty SAND Greenish grey, medium coarse grained, <10% gravel up to 2", saturated no odor				58 43 50/4"		100	

ROUX

Project: Maryatt Industries
773 Valley Street, Seattle, Washington

Log of Well No. MW5

Date Started: 10/27/92	Completed: 10/27/92	Measuring Point Elevation (ft): 47.20	Total Depth (ft): 37.5
Logged By: B. Hall	Checked By: TR	Water Level During Drilling (ft): 26.0	Stabilized (ft): 25.9
Drilling Co: Tacoma Pump & Drilling		Casing: Schedule 40 PVC	Drill Bit Diameter (in): 10"
Drilling Method: Hollow-stem Auger		Perforation: 0.010 Slot	from 30 ft to 15 ft
Drilling Equipment: Mobile B-56		Pack: 10-20 Sand	from 30 ft to 13 ft
Sampler: Split Spoon		Seal: Bentonite	from 13 ft to 1 ft
		Cement	from 1 ft to 0 ft

Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OVM (ppm)	Recovery (%)	REMARKS
5	Fill: Medium brown, 50% gravel, 30% silt, 20% sand, damp, no odor.				5 6 6	0	70	
10	As above, moist, no odor.				4 5 6	0	80	
15	Sandy Gravel: Grey, moist, 50% gravel, 40% coarse sand, 10% silt, no odor.	GW			2 6 7	0	70	DRAFT
20	Silty SAND: Grey-brown, 60% fine sand, 40% silt, hard packed, dry, no odor.	SM			22 10 14	0	80	
25	Silty sandy GRAVEL: Dark grey, 60% gravel, 20% sand, 20% silt, moist, no odor.	GW			26 40	0	25	
30	As above, medium brown, wet, no odor.				20 27 18	0	70	
35								

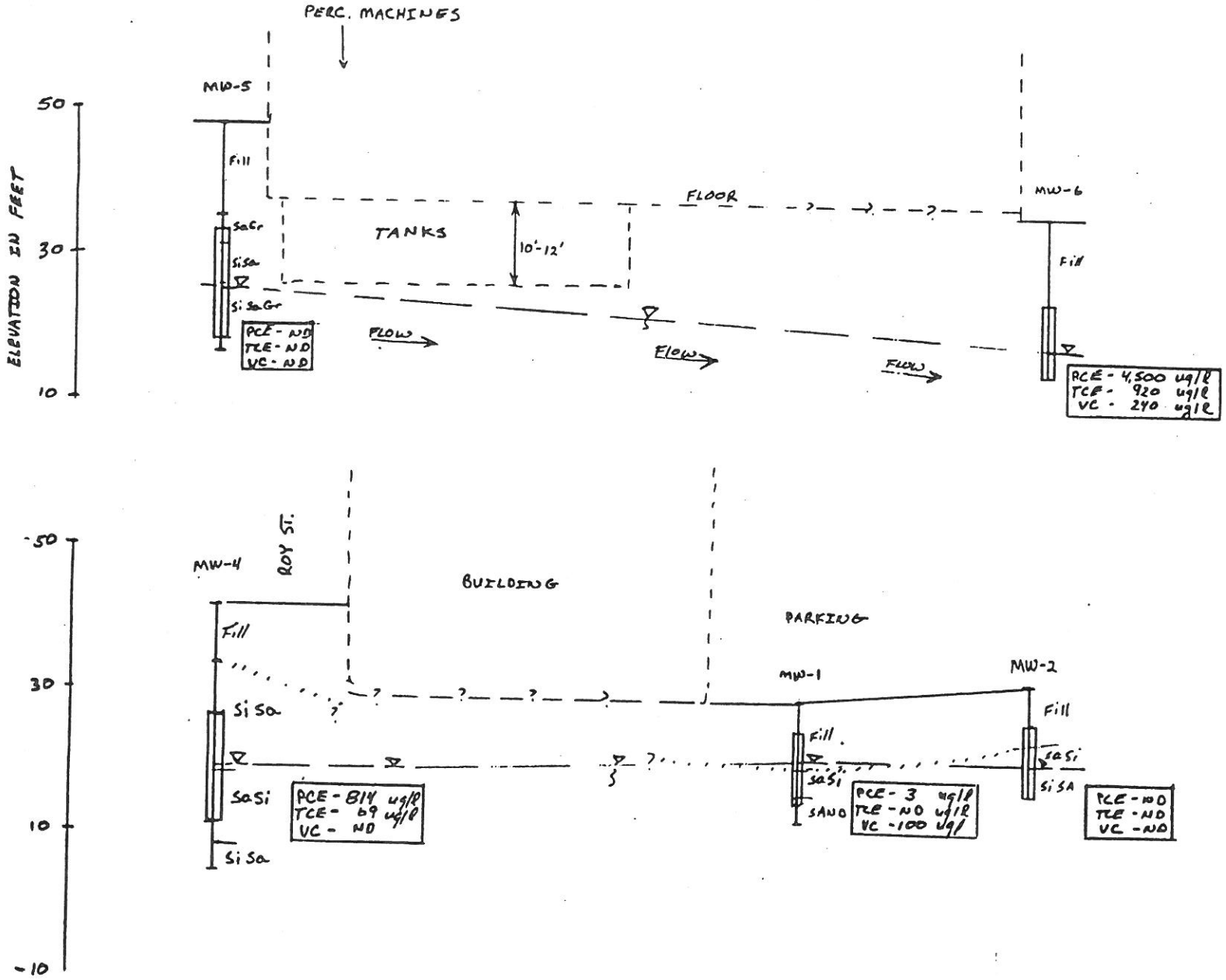
Project: 26203W02 Roux Associates Page 1 of 1

Project: Maryatt Industries 773 Valley Street, Seattle, Washington	Log of Well No. MW6
Date Started: 10/27/92 Completed: 10/27/92	Measuring Point Elevation (ft): 35.39 Total Depth (ft): 22.0
Logged By: B. Hall Checked By: TR	Water Level During Drilling (ft): 17.0 Stabilized (ft.): 17.8
Drilling Co: Tacoma Pump & Drilling	Casing: Schedule 40 PVC Drill Bit Diameter (in): 10"
Drilling Method: Hollow-stem Auger	Perforation: 0.010 Slot from 22 ft to 12 ft
Drilling Equipment: Mobile B-56	Pack: 10-20 Sand from 22 ft to 10 ft
Sampler: Split Spoon	Seal: Bentonite from 10 ft to 2 ft
	Cement from 2 ft to 0 ft

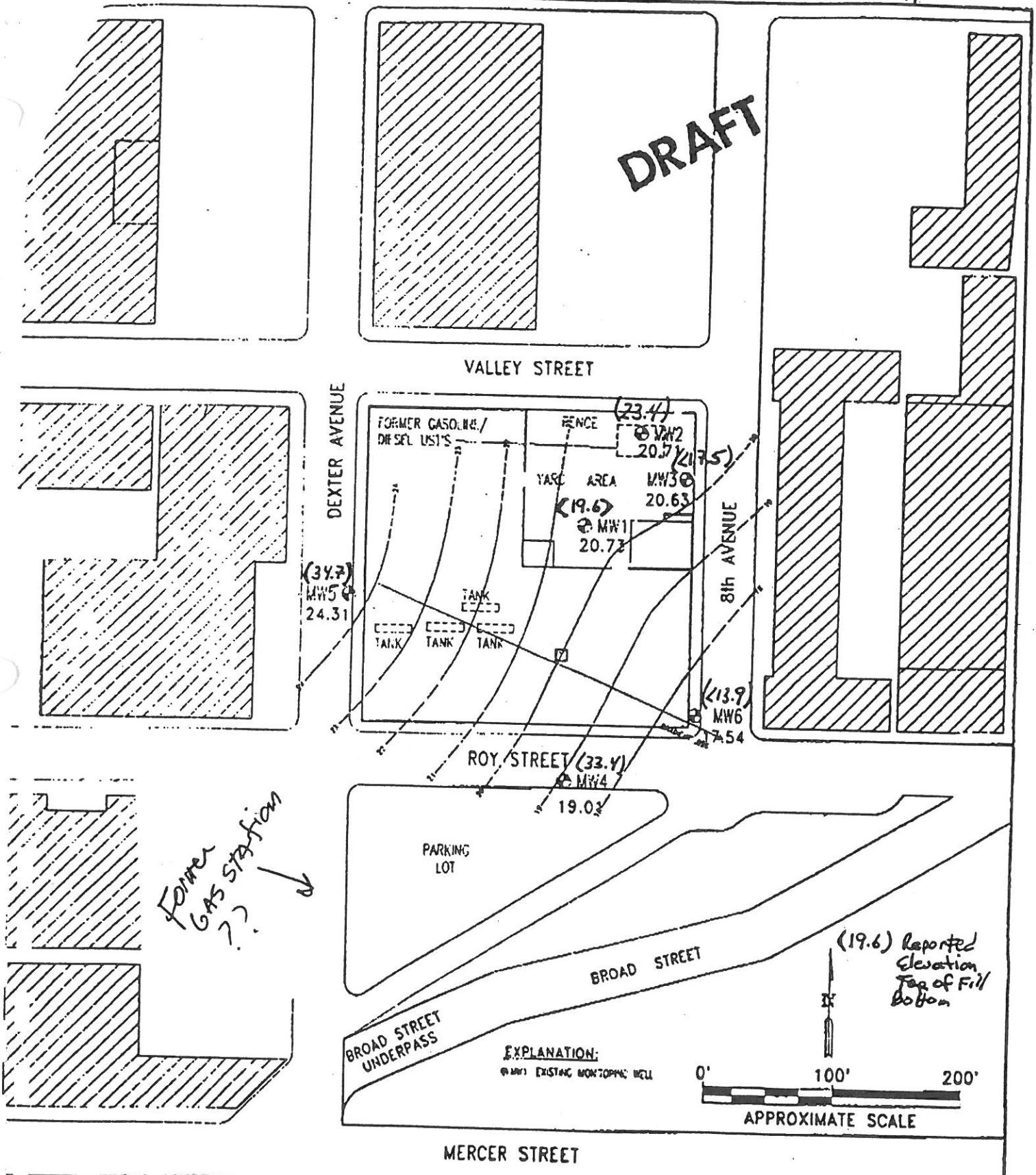
Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OVM (ppm)	Recovery (%)	REMARKS
6	FILL Medium brown, 50% gravel, 30% sand, 20% silt, brick fragments, damp, no odor.				11 11 13	0	50	
10	As above, abundant brick fragments.				22 24 18	0	50	
15	As above, grey, moist, no odor.				30 8 8	0	50	
20	As above, wet, no odor.				12 12 16	0	50	
25								
30								
35								

DRAFT

Project: 26203W02 Roux Associates Page 1 of 1

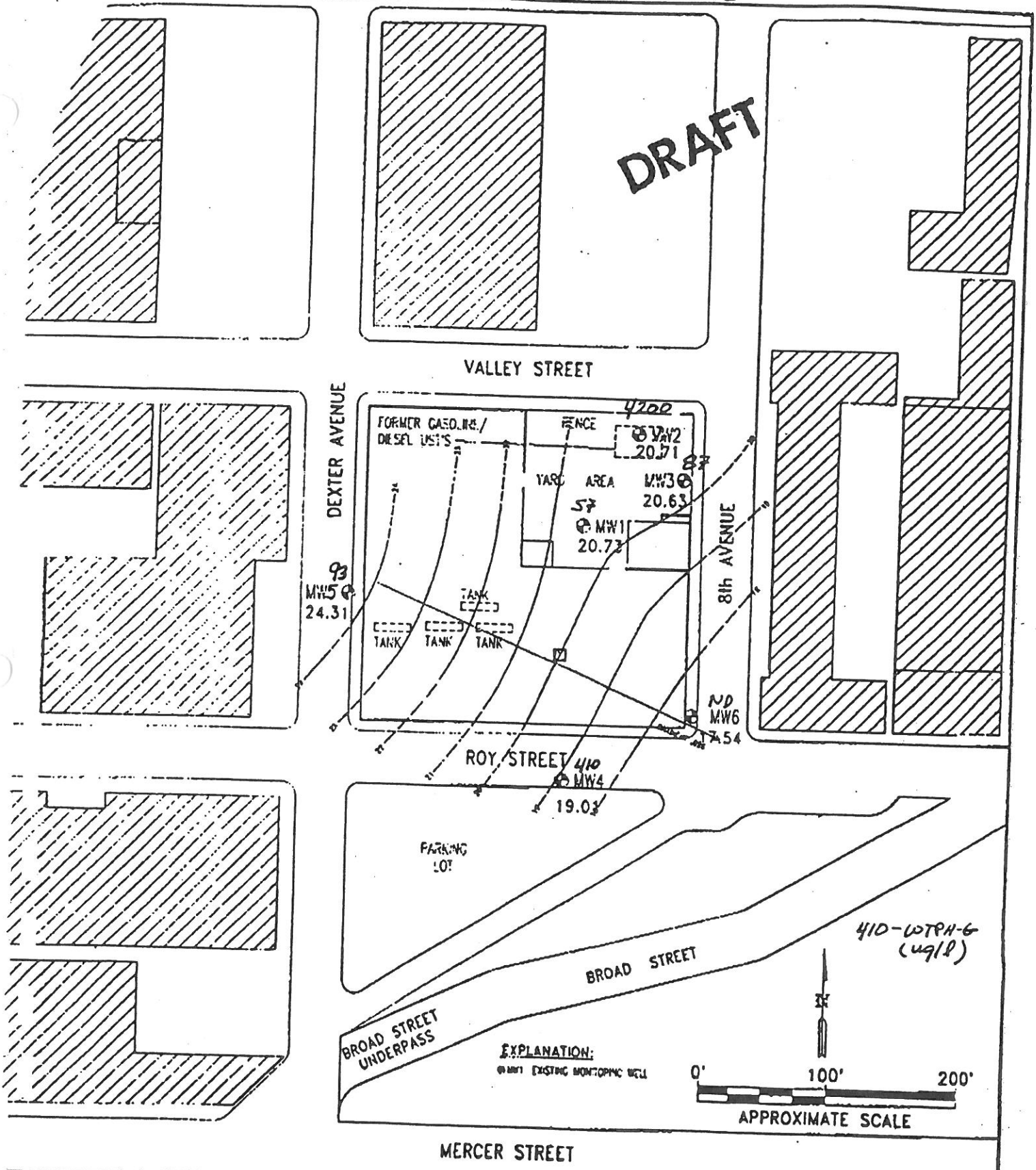

PERC. MACHINES
MW-5
MW-6
FILL
SaGr
SiSa
SiSaGr
TANKS
10'-12'
FLOOR
FLOW
FLOW
FLOW
PCE - ND
TCE - ND
VC - ND
PCE - 4,500 ug/l
TCE - 920 ug/l
VC - 240 ug/l
ELEVATION IN FEET
50
30
10
MW-4
ROY ST.
BUILDING
PARKING
MW-1
MW-2
FILL
SiSa
SaSi
SiSa
SAND
SiSA
PCE - 814 ug/l
TCE - 69 ug/l
VC - ND
PCE - 3 ug/l
TCE - ND ug/l
VC - 100 ug/l
PCE - ND
TCE - ND
VC - ND
-50
30
10
-10

ELEVATION BOTTOM OF FILL



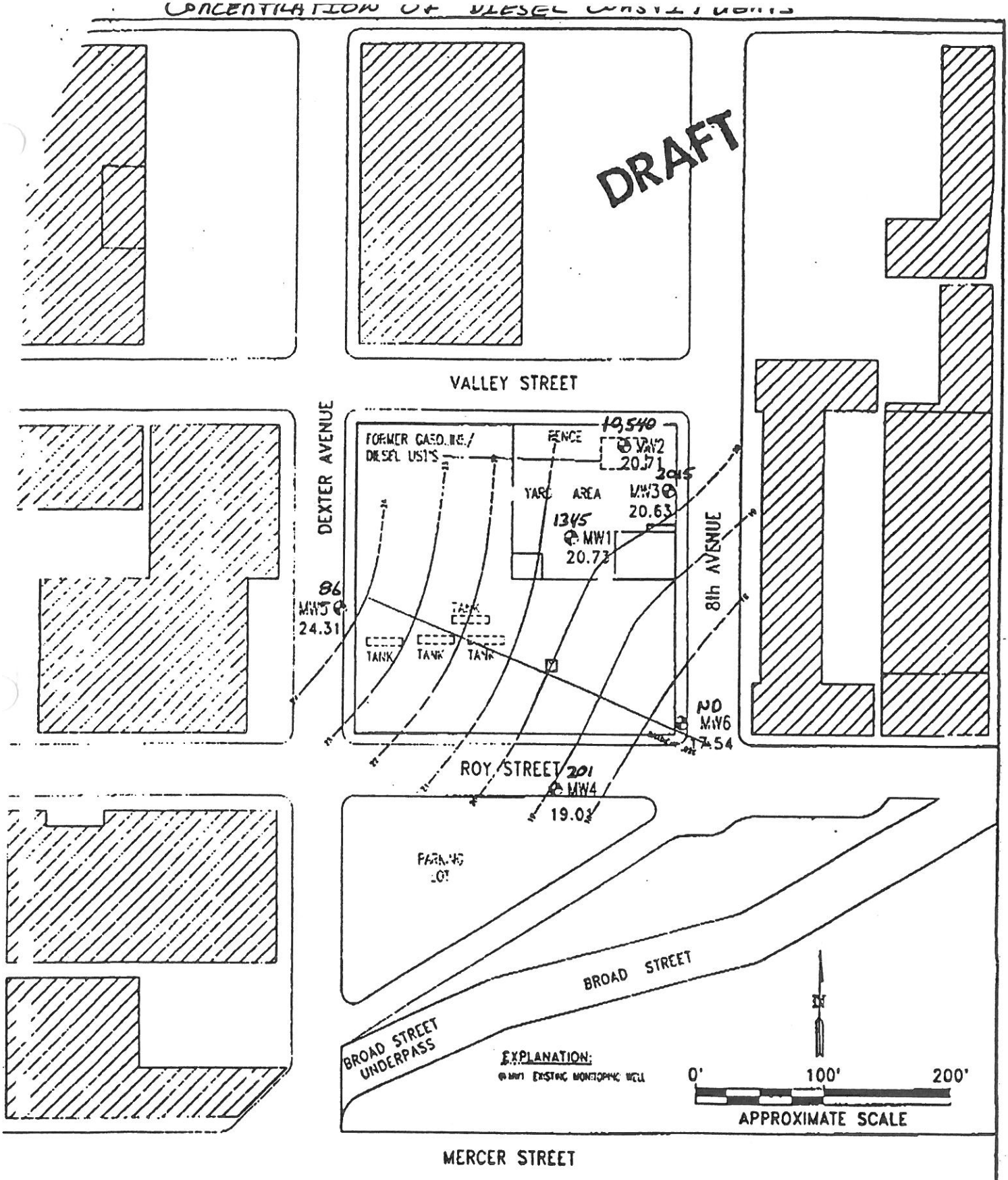
ROUX ASSOCIATES ENVIRONMENTAL CONSULTING & MANAGEMENT	COMPILED BY: B.H.	PREPARED FOR: CINTAS CORPORATION CINCINNATI, OHIO	FIGURE 1
	PREPARED BY: R P		
	PROJECT MNGR. B.H.	TITLE: MARYATT INDUSTRIES 773 VALLEY STREET SEATTLE, WA.	
	DATE: 11/92		
	SCALE: AS SHOWN		
	PROJECT NO. 2620.WD2		
	FILE NAME: MARYSITB		

CONCENTRATION GASOLINE CONSTITUENTS



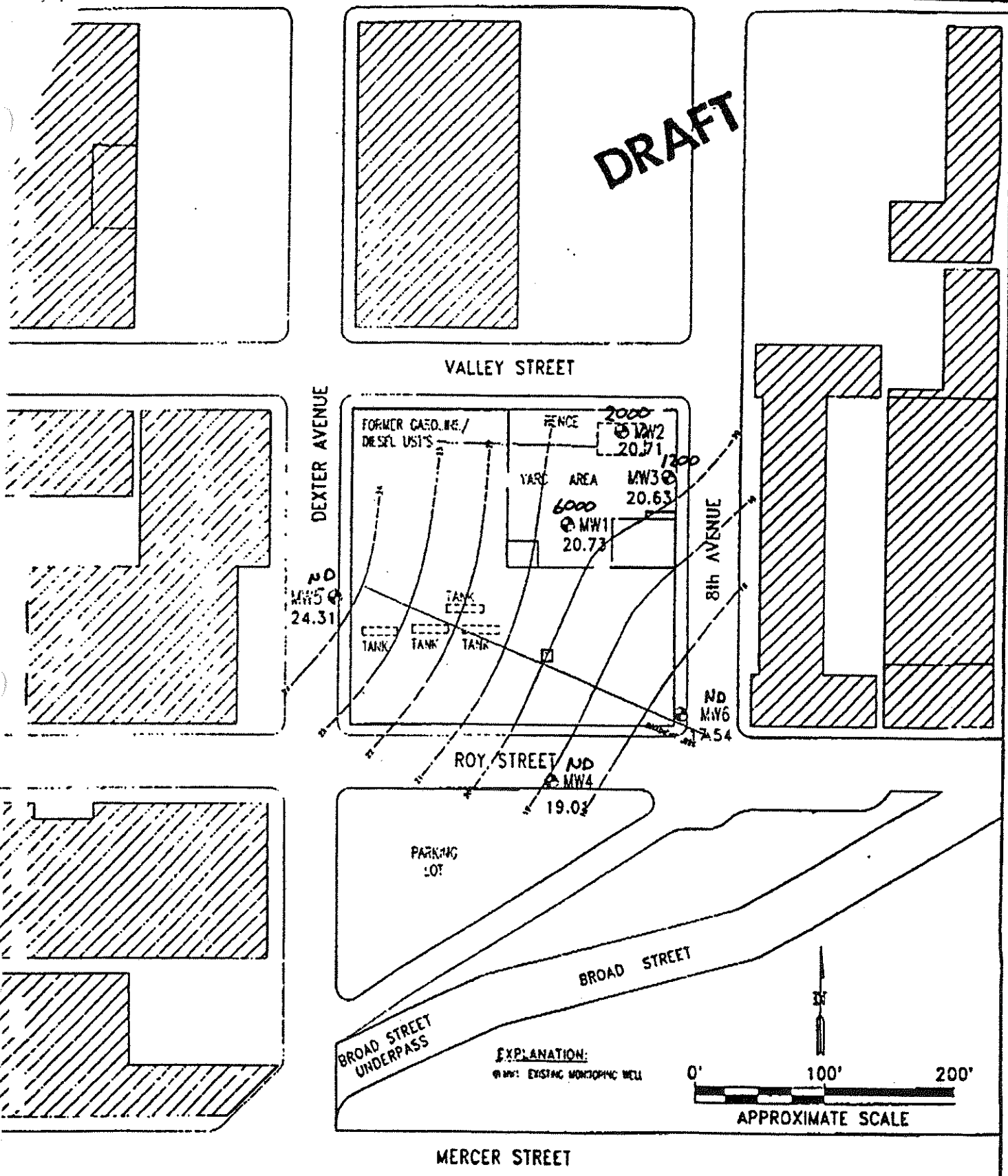
OUX ASSOCIATES ENVIRONMENTAL CONSULTING MANAGEMENT	COMPILED BY: B.H.	PREPARED FOR: CINTAS CORPORATION CINCINNATI, OHIO	FIGURE 1
	PREPARED BY: R P		
	PROJECT MNGR. B.H.	TITLE: MARYATT INDUSTRIES 773 VALLEY STREET SEATTLE, WA.	
	DATE: 11/92		
	SCALE: AS SHOWN		
	PROJECT NO. 2620.3W02		
	FILE NAME. MARYSITB		

CONCENTRATION OF DIESEL CONSTITUENTS



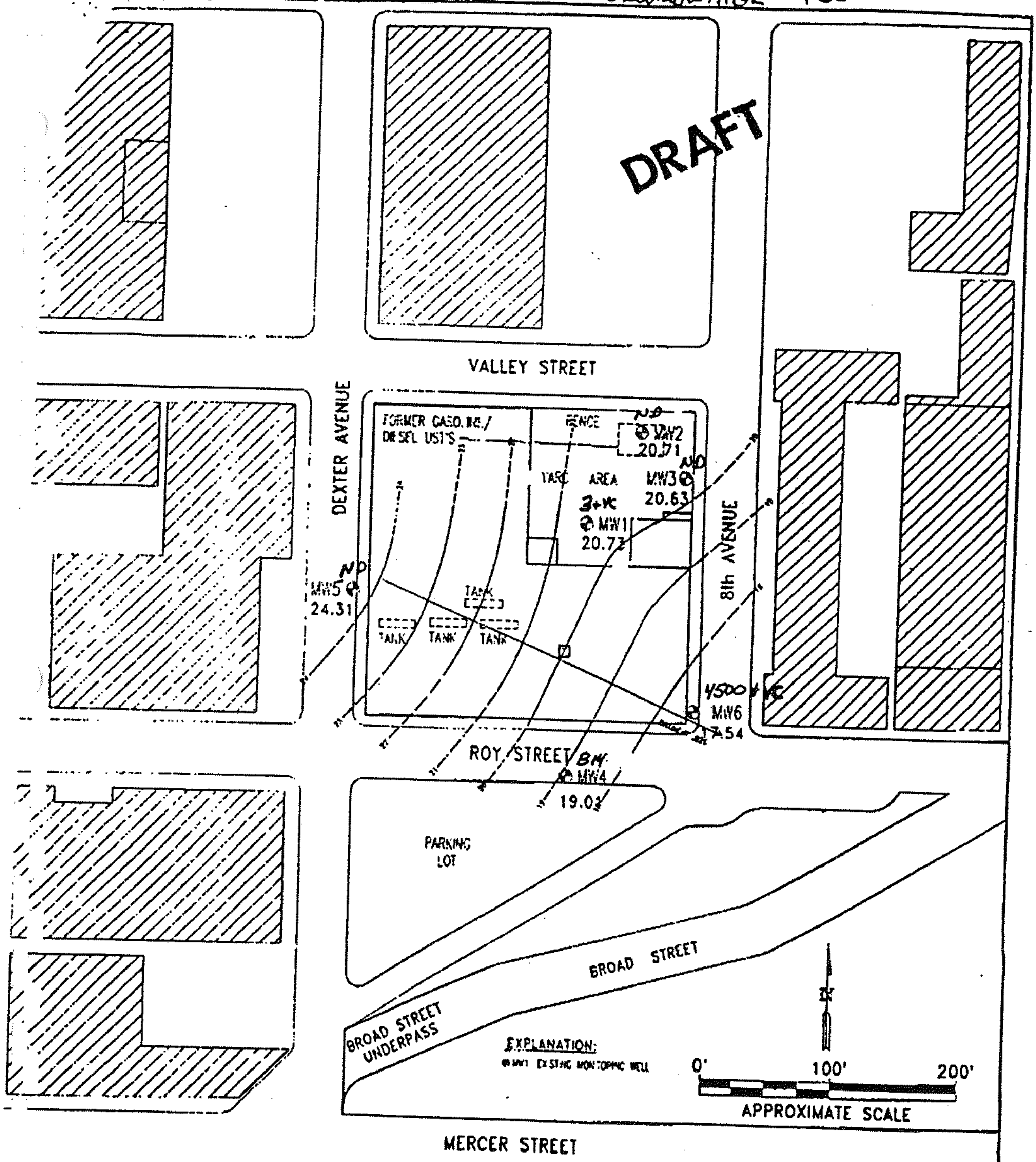
ROUX ASSOCIATES ENVIRONMENTAL CONSULTING & MANAGEMENT	COMPILED BY: B.H. PREPARED BY: R P PROJECT MNGR. B.H. DATE: 11/92 SCALE: AS SHOWN PROJECT NO. 2620.3W02 FILE NAME. MARYSITB	PREPARED FOR: CINTAS CORPORATION CINCINNATI, OHIO TITLE: MARYATT INDUSTRIES 773 VALLEY STREET SEATTLE, WA.	FIGURE 1

CONCENTRATION OF "HEAVY" HYDROCARBONS



OUX ASSOCIATES ENVIRONMENTAL CONSULTING & MANAGEMENT	COMPILED BY: B.M.	PREPARED FOR: CINTAS CORPORATION CINCINNATI, OHIO	FIGURE 1
	PREPARED BY: R P		
	PROJECT MNGR. B.H.	TITLE: MARYATT INDUSTRIES 773 VALLEY STREET SEATTLE, WA.	
	DATE: 11/92		
	SCALE: AS SHOWN		
	PROJECT NO. 26203W22		
	FILE NAME. MARYSITE		

IN GROUNDWATER - PCE



COMPILED BY:	B.H.
PREPARED BY:	R P
PROJECT MNGR.	B.H.
DATE:	11/92
SCALE:	AS SHOWN
PROJECT NO.	26203WD2
FILE NAME.	MARYSIT8

...OUX
... ASSOCIATES

PREPARED FOR:

CINTAS CORPORATION
CINCINNATI, OHIO

TITLE

MARYATT INDUSTRIES
773 VALLEY STREET
SEATTLE, WA.

FIGURE

1

Dalton, Olmsted & Fuglevand, Inc. *Environmental Consultants*

1[illegible] 120th Avenue N.E., Suite 107 • Bothell, Washington 98011
Te[illegible] one (206) 486-7905 (FAX 486-7651)

FAX MEMORANDUM(7 pages)

TO: Chuck Maryatt

FROM: Matthew Dalton

DATE: October 29, 1992

SUBJECT: Analytical Results - Ground-Water Samples
Maryatt Ind. - Seattle Facility

REF. NO: HEW-016

cc: R. Palumbo

Here are the laboratory data sheets for the ground-water samples we split with ROUX. Overall the results appear similar to those reported by ROUX, although a few more organic components (including tetrachloroethene) were detected in the sample from MW-1.

Please call if you have any questions.

Matt

NORTH CREEK ANALYTICAL

18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-2529
Phone (206) 481-0200 • FAX (206) 485-2992

Dalton, Olmsted & Fuglevand, Inc.	Client Project ID:	Maryatt Industries, HEW-0116-00	Sampled:	Oct 24, 1992
19017 120th Avenue NE, #107	Matrix Descript:	Water	Received:	Oct 26, 1992
Bothell, WA 98011	Analysis Method:	WTPH-G,EPA 5030/8020	Analyzed:	Oct 26, 1992
Attention: Matt Dalton	First Sample #:	210-1179	Reported:	Oct 28, 1992

TOTAL PETROLEUM HYDROCARBONS with BTEX DISTINCTION (WTPH-G/BTEX)

Sample Number	Sample Description	Volatile Hydrocarbons µg/L (ppb)	Benzene µg/L (ppb)	Toluene µg/L (ppb)	Ethyl Benzene µg/L (ppb)	Xylenes µg/L (ppb)	Surrogate Recovery %
210-1179	MW-1	53	0.61	0.83	N.D.	N.D.	92
210-1180	MW-2	4,000	310	N.D.	140	160	9
210-1181	MW-3	N.D.	N.D.	N.D.	N.D.	N.D.	90
210-1182	MW-4	640	N.D.	1.8	N.D.	3.1	101
BLK:02692	Method Blank	N.D.	N.D.	N.D.	N.D.	N.D.	88

Detection Limits:	50	0.50	0.50	0.50	1.0

Volatile Hydrocarbons are quantitated as Gasoline Range Organics (nC7 - nC12). Surrogate recovery reported is for Bromofluorobenzene.
Analytes reported as N.D. were not present above the stated limit of detection.

NORTH CREEK ANALYTICAL Inc

Kimberly Stark
Project Manager

Please Note:
The detection limit for Toluene in #210-1180 = 6.0 µg/L.

2101179.DOF <1>

NORTH CREEK ANALYTICAL

18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-2569
Phone (206) 481-9200 • FAX (206) 485-2992

Dalton, Olmsted & Fuglevand, Inc.	Client Project ID:	Maryatt Industries, HEW-016-00	Sampled:	Oct 24, 1992
19017 120th Avenue NE, #107	Matrix Descript:	Water	Received:	Oct 26, 1992
Bothell, WA 98011	Analysis Method:	WTPH-D	Extracted:	Oct 27, 1992
Attention: Matt Dalton	First Sample #:	210-1179	Analyzed:	Oct 28, 1992
			Reported:	Oct 28, 1992

TOTAL PETROLEUM HYDROCARBONS (WTPH-D)

Sample Number	Sample Description	Extractable Hydrocarbons mg/L (ppm)	Surrogate Recovery %
210-1179	MW-1	26 D-2	106
210-1180	MW-2	16 D-3	82
BLK102792	Method Blank	N.D.	65

Detection Limits:	0.25

Extractable Hydrocarbons are quantitated as Diesel Range Organics (nC12 - nC24). Surrogate recovery reported is for 2-Fluorobiphenyl.
Analytes reported as N.D. were not present above the stated limit of detection.

NORTH CREEK ANALYTICAL Inc

Kimberle Stark
Project Manager

NORTH CREEK ANALYTICAL

18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-2569
Phone (206) 481-9200 • FAX (206) 485-2992

HYDROCARBON ANALYSES FOOTNOTES

(8/92)

Code	Description

VOLATILE HYDROCARBONS - Gasoline Range Organics

G 1 This sample appears to contain extractable diesel range organics.

G 2 The chromatogram for this sample is not a typical gasoline fingerprint.

G 3 The total hydrocarbon result in this sample is primarily due to a peak(s) eluting in the volatile hydrocarbon range. Identification and quantitation by EPA 8010, 8021 or 8240

NORTH CREEK ANALYTICAL

18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-2569
Phone (206) 481-9200 • FAX (206) 485-2992

Dalton, Olmsted & Fuglevand, Inc.	Client Project ID:	Maryatt Industries, HEW-016-00	Sampled: Oct 24, 1992
19017 120th Avenue NE, #107	Matrix Descript:	Water	Received: Oct 26, 1992
Bothell, WA 98011	Analysis Method:	WTPH-D	Extracted: Oct 27, 1992
Attention: Matt Dalton	First Sample #:	210-1179	Analyzed: Oct 28, 1992
			Reported: Oct 28, 1992

TOTAL PETROLEUM HYDROCARBONS (WTPH-D)

Sample Number	Sample Description	Extractable Hydrocarbons mg/L (ppm)	Surrogate Recovery %
210-1179	MW-1	26 D-2	106
210-1180	MW-2	16 D-3	82
BLK102792	Method Blank	N.D.	65

NORTH CREEK ANALYTICAL

18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-25(9
Phone (206) 481-9200 • FAX (206) 485-2992

Dalton, Olmsted & Fuglevand, Inc.	Client Project ID:	Maryatt Industries, HEW-016-00		Sampled:	Oct 24, 1992
19017 120th Avenue NE, #107	Matrix Descript:	Water		Received:	Oct 26, 1992
Bothell, WA 98011	Analysis Method:	WTPH-418.1		Extracted:	Oct 27, 1992
Attention: Matt Dalton	First Sample #:	210-1179		Analyzed:	Oct 28, 1992
				Reported:	Oct 28, 1992

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (WTPH-418.1)

Sample Number	Sample Description	Petroleum Oil mg/L (ppm)
210-1179	MW-1	12
210-1180	MW-2	25
BLK102792	Method Blank	N.D.

Detection Limits:	1.0

Analytes reported as N.D. were not present above the stated limit of detection.

NORTH CREEK ANALYTICAL Inc

Kimberle Stark
Project Manager

2101179.DOF <3>

NORTH CREEK ANALYTICAL

18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-2569
Phone (206) 481-9200 • FAX (206) 485-2992

Dalton, Olmsted & Fuglevand, Inc.	Client Project ID:	Maryatt Industries, HEW-016-00	Sampled:	Oct 24, 1992
19017 120th Avenue NE, #107	Sample Descript:	Water, MW-1	Received:	Oct 26, 1992
Bothell, WA 98011	Analysis Method:	EPA 5030/8010	Analyzed:	Oct 27, 1992
Attention: Matt Dalton	Lab Number:	210-1179	Reported:	Oct 28, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Results µg/L (ppb)
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	1.0	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	1.0	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	1.0	N.D.
Total 1,2-Dichloroethene	1.0	12
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	4.2
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	0.62
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	170

4-Bromofluorobenzene Surrogate Recovery, %: 102
Analytes reported as N.D. were not present above the stated limit of detection.

NORTH CREEK ANALYTICAL Inc

Kimberle Stark
Project Manager

NORTH CREEK ANALYTICAL

18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-2560
Phone (206) 481-9200 • FAX (206) 485-2992

Dalton, Olmsted & Fuglevand, Inc.	Client Project ID:	Maryatt Industries, HEW-016-00		
19017 120th Avenue NE, #107	Sample Descript:	Method Blank		
Bothell, WA 98011	Analysis Method:	EPA 5030/8010	Analyzed:	Oct 27, 1992
Attention: Matt Dalton	Lab Number:	BLK102792	Reported:	Oct 29, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Results µg/L (ppb)
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	1.0	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	1.0	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	1.0	N.D.
Total 1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: 110

Analytes reported as N.D. were not present above the stated limit of detection.

NORTH CREEK ANALYTICAL Inc

Kimberle Stark
Project Manager