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Program	IHS (IHS)
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Nello Teer Durham Quarry
ine # 9357 DR
110B

R. Christian Reinhardt and Associates
Consulting Hydrogeologists
7620 Mine Valley Road, Raleigh, North Carolina
(919) 870 - 9129

June 24, 1997

RECEIVED
JUN 27 1997
DEHNR RALEIGH REGIONAL OFFICE

Mr. Jay Zimmerman, P.G.
North Carolina Department of Environment,
Health, and Natural Resources
Division of Water Quality
3800 Barrett Drive
Raleigh, North Carolina 27609

Re Compliance Monitoring Report
Nello Teer Company - Denfield Street Quarry
Durham, North Carolina
RCR Project No. 97-103

Dear Mr. Zimmerman:

R. Christian Reinhardt and Associates (RCR) personnel completed the compliance monitoring sampling of ground water from selected monitor wells near the former Nello Teer (Teer) Denfield Street quarry on May 13, 14, 15, and 20, 1997. Since the last sampling event in October 1996, the ground water recovery and treatment system has been installed and has recently begun active remediation of ground water at the site. This report presents the sampling collection methodologies, ground water flow directions, extent of contamination, and the laboratory analytical results (Hydrologic report #s 97-0957, 97-0978, and 97-1013).

Background

The Denfield Street Quarry is a former aggregate mining and processing facility located at the end of SR 1641, north of Durham, Durham County, North Carolina (Figure 1). Teer began operation of the property as a crushed stone quarry and asphalt plant in the 1940's. Ground water contamination found in the facility's water supply well prompted the issuance of a Notice of Violation of North Carolina ground water standards by the NC Division of Environmental Management (NCDEM - now the NC Division of Water Quality (NCDWQ)). The ground water contamination originated from two separate sources on the south side of the quarry pit. One source appears to be a former gasoline station on-site which has contributed gasoline and diesel petroleum hydrocarbons to the contaminant plume. The second source appears to be a former asphalt plant and asphalt testing laboratory which has contributed chlorinated hydrocarbons to the contaminant plume.

A Comprehensive Site Assessment (CSA) report and Corrective Action Plan (CAP) was submitted

to the NCDEM by Geonetics, Inc. in 1994. Front Royal Environmental Services, Inc. (Front Royal) submitted a revised CAP for soil and ground water contamination to the NCDEM in 1995. Front Royal also submitted permit applications for land application of petroleum contaminated soils and for the discharge of treated ground water (NPDES permit). The permits have both been issued and the land application treatment of contaminated soils is complete. The installation of the ground water remediation system was recently completed and the system is now operational.

There are currently 20 monitor wells on the site. Nine monitor wells are screened in the shallow aquifer and 11 monitor wells are screened in the deep aquifer. There are also 7 recovery wells on the site. Three recovery wells are located near the former gasoline station, 3 are located near the former asphalt plant and 1 is located between the source areas. A site map with well locations is presented as Figure 2.

Ground Water Sampling Methods

Prior to collecting ground water samples, water levels were measured to an accuracy of 0.01 feet in all wells using an electronic water level meter which was decontaminated between each well. The water level measurements were used to determine the elevation above mean sea level of the potentiometric surfaces of the shallow and deep aquifers. The depth to water measurements were also used to determine the volume of water to be purged from each well. Well head elevations, screen intervals, depth to water measurements, and water table elevations are presented in Table 1.

All monitor wells were purged of at least 3 well volumes using either disposable polyethylene bailers or a low volume electric purge pump which was thoroughly decontaminated between wells. After allowing each well to equilibrate to or near static levels, water samples were collected from each well using a disposable polyethylene bailer. Samples were collected from the following monitor wells:

Shallow zone: MW-7, MW-14S, MW-16S, MW-17, MW-18, MW-19, MW-24, MW-25, MW-26;

Deep zone: MW-1, MW-11, MW-13, MW-14I, MW-15I, MW-16I, MW-20D, MW-22, MW-23.

Samples were not collected from monitor wells MW-3 and MW-9.

Ground water samples were collected in labeled, laboratory prepared containers, chilled, and delivered to a certified analytical laboratory. Samples were submitted under chain of custody to Hydrologic, Inc. for analysis by EPA methods 601, 602, and 610. Laboratory analytical results, chains of custody, and QA data are presented in Appendix I.

Compliance Monitoring Results

Potentiometric data for the shallow aquifer indicates that the ground water flow direction remains

towards the northeast with an average hydraulic gradient of 0.013 ft/ft. The ground water flow direction for the deep aquifer remains towards the quarry pit to the north with an average hydraulic gradient of 0.04 ft/ft. Table 1 presents a summary of water level data from the May 1997 sampling event. Figures 3 and 4 present the potentiometric maps for the shallow and deep aquifers, respectively.

Ground water seepage velocities were calculated using the average hydraulic conductivity (K) and effective porosity (n_e) values provided in the Geonetics report and the most recently measured hydraulic gradients (i). The K value reported for the site is 0.38 ft/d and the n_e value reported for the site is 0.17. Calculated seepage velocities are as follows:

- shallow zone = 0.029 ft/d or 10.61 ft/yr;
- deep zone = 0.089 ft/d or 32.63 ft/yr.

Laboratory analytical results for the May 1997 sampling event indicate that the levels of chlorinated solvents and petroleum hydrocarbons continue to decrease slightly. Neither plume appears to be migrating significantly. Summaries of the laboratory analysis results are included in Table 2 and Table 3. Figure 5 and Figure 6 depict the extent of the contaminant plumes at the site. Complete laboratory reports are included in the Appendix.

If you have any questions, please call Steve Edgerton at (919) 380 - 2615 or me at (919) 832 - 1554.

Sincerely,

R. Christian Reinhardt and Associates

R. Christian Reinhardt, P.G.
Consulting Hydrogeologist
NC License No. 1044

NORTH CAROLINA LICENSED SEAL 1044 GEOLOGIST R. CHRISTIAN REINHARDT 6/24/97

Attachments

cc: Steve Edgerton, Benchmark Carolina Aggregates

Table 1 **Well and Water Level Data**
May 1997 Sampling Event
Teer Quarry - Denfield Street, Durham NC
RCR Project No. 97-103

Well #	Top of Casing Elevation[a]	Screen Interval[b]	Depth To Water[b]	Water Table Elevation[a]
MW-1	329.50	20.0-35.0	12.33	317.17
MW-3	337.32	15.0-62.0	23.54	313.78
MW-7	329.26	9.0-14.0	9.52	319.74
MW-9	333.65	25.0-40.0	18.83	314.82
MW-11	327.87	35.0-50.0	32.06	295.81
MW-13	326.48	50.0-65.0	18.86	307.62
MW-14S	327.09	5.0-20.0	8.96	318.13
MW-14I	327.13	34.0-49,0	10.32	316.81
MW-15I	329.53	25.0-40.0	11.07	318.46
MW-16S	333.91	3.0-13.0	7.19	326.72
MW-16I	330.80	46.0-61.0	18.81	311.99
MW-17	327.59	2.5-12.5	3.35	324.24
MW-18	328.43	3.0-10.0	4.26	324.17
MW-19	327.82	2.0-10.0	2.41	325.41
MW-20D	329.88	110.0-115.0	21.17	308.71
MW-22	334.19	30.0-60.0	17.72	316.47
MW-23	331.87	25.0-60.0	16.00	315.87
MW-24	337.56	16.0-36.0	10.35	327.21
MW-25	328.92	4.0-14.0	5.08	323.84
MW-26	328.92	3.0-13.0	5.18	323.74

[a] Elevations referenced to mean sea level
[b] Depths measured from top of casing

Table 2 **Summary of Laboratory Analysis Results - Shallow Wells**
May 1997 Sampling Event
Teer Quarry - Denfield Street, Durham NC
RCR Project No. 97-103

Parameter	MW-7	MW-14S	MW-16S	MW-17	MW-18	MW-19	MW-24	MW-25	MW-26	Standard
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**6.03**	BDL	none
1,1-Dichloroethane	BDL	BDL	BDL	4.88	BDL	BDL	BDL	188	30.6	700
1,1- Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**360**	**4.85**	7.0
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**1.41**	BDL	0.70
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**1,048**	BDL	200
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**1.66**	BDL	none
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**106**	BDL	2.8
Vinyl Chloride	BDL	BDL	BDL	**8.92**	**1.20**	BDL	BDL	**22.0**	**13.8**	0.015
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.0
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1,000
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530
Acenaphthene	BDL	**3.41**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	none
Fluorene	BDL	**2.40**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	none
Naphthalene	BDL	15.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	21

All results reported in micrograms per liter (ug/l)
BDL Below Detection Limit
Bold print indicates the 15A NCAC 2L Standards were exceeded
All samples analyzed by Hydrologic, Inc. (Hydrologic report #s 97-0957, 97-0978, and 97-1013)

Teer0597.rcr.wpd
RCR Project No. 97-103

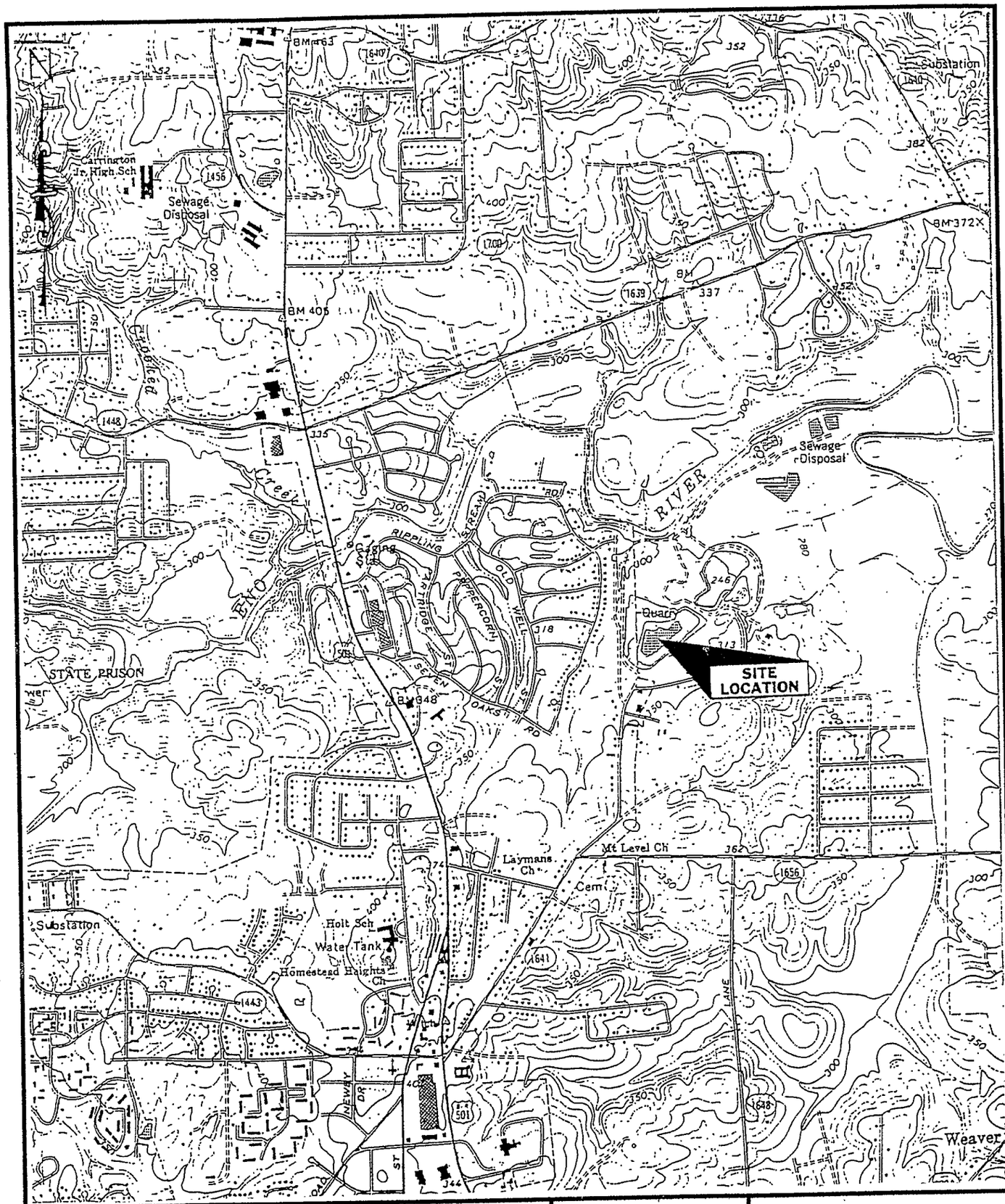
Table 3 **Summary of Laboratory Analysis Results - Deep Wells**
May 1997 Sampling Event
Teer Quarry - Denfield Street, Durham NC
RCR Project No. 97-103

Parameter	MW-1	MW-11	MW-13	MW-14I	MW-15I	MW-16I	MW-20D	MW-22	MW-23	Standard
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	none
1,1-Dichloroethane	BDL	BDL	BDL	4.88	BDL	BDL	BDL	BDL	BDL	700
1,1- Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.0
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.70
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	200
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	none
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.8
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.015
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	**17.0**	BDL	**23.4**	1.0
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.07	29
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.78	1,000
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	19.5	530
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	none
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	none
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.24	21

All results reported in micrograms per liter (ug/l)
BDL Below Detection Limit
Bold print indicates the 15A NCAC 2L Standards were exceeded
All samples analyzed by Hydrologic, Inc. (Hydrologic report #s 97-0957, 97-0978, and 97-1013)

Teer0597.rcr.wpd
RCR Project No. 97-103

FIGURES



R. CHRISTIAN REINHARDT ASSOCIATES CONSULTING HYDROGEOLOGIST	NELLO L. TEER DURHAM QUARRY	SITE LOCATION MAY 1997	SCALE: DRAWN BY: DATE:

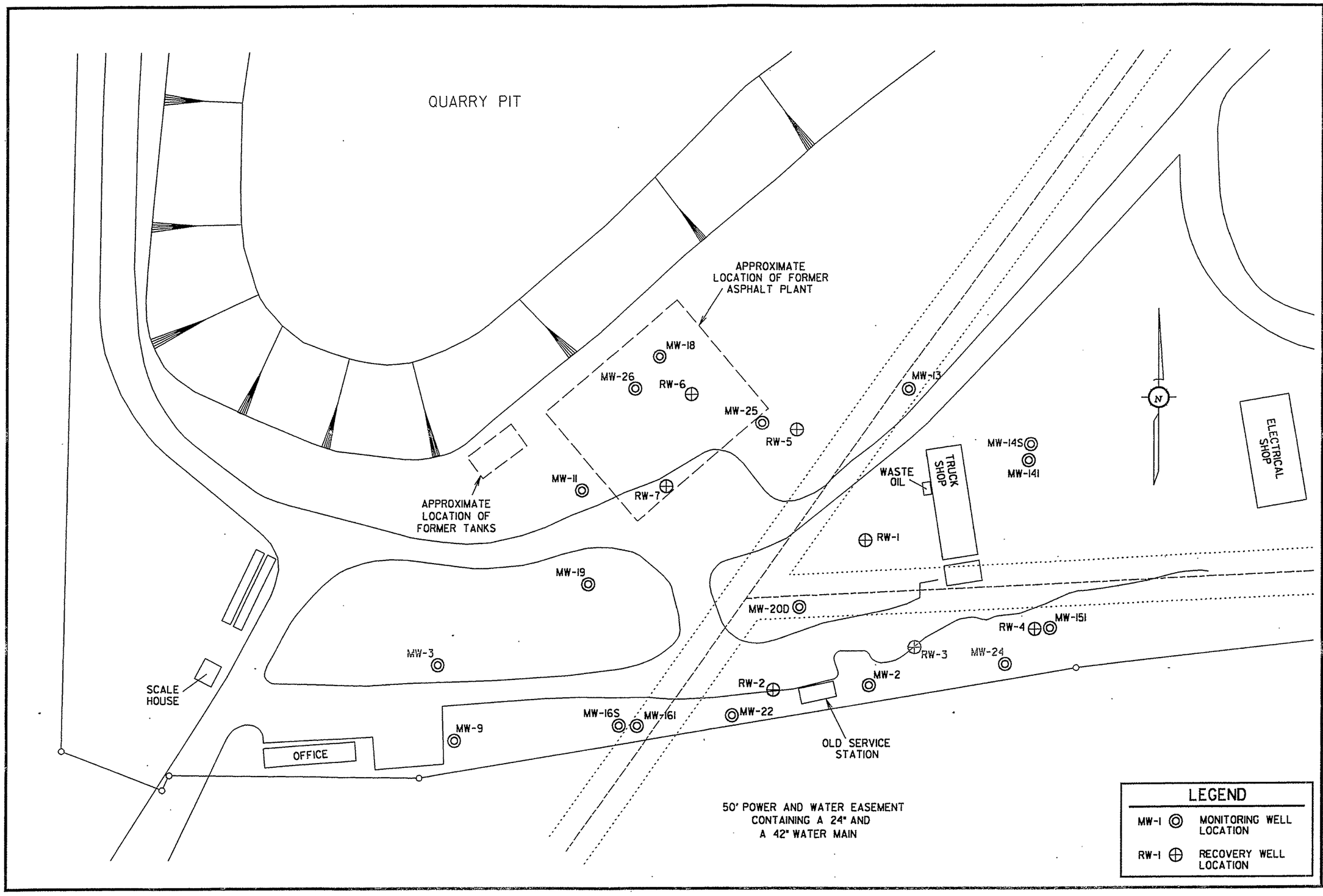


FIGURE 2

SCALE: 1" = 100'-0"

DRAWN BY: RDU CAD SERVICES

DATE: 6/20/97

NELLO L. TEER
DURHAM QUARRY
SITE PLAN

Site Plan
May 1997

R. CHRISTIAN REINHARDT ASSOCIATES
CONSULTING HYDROGEOLOGIST

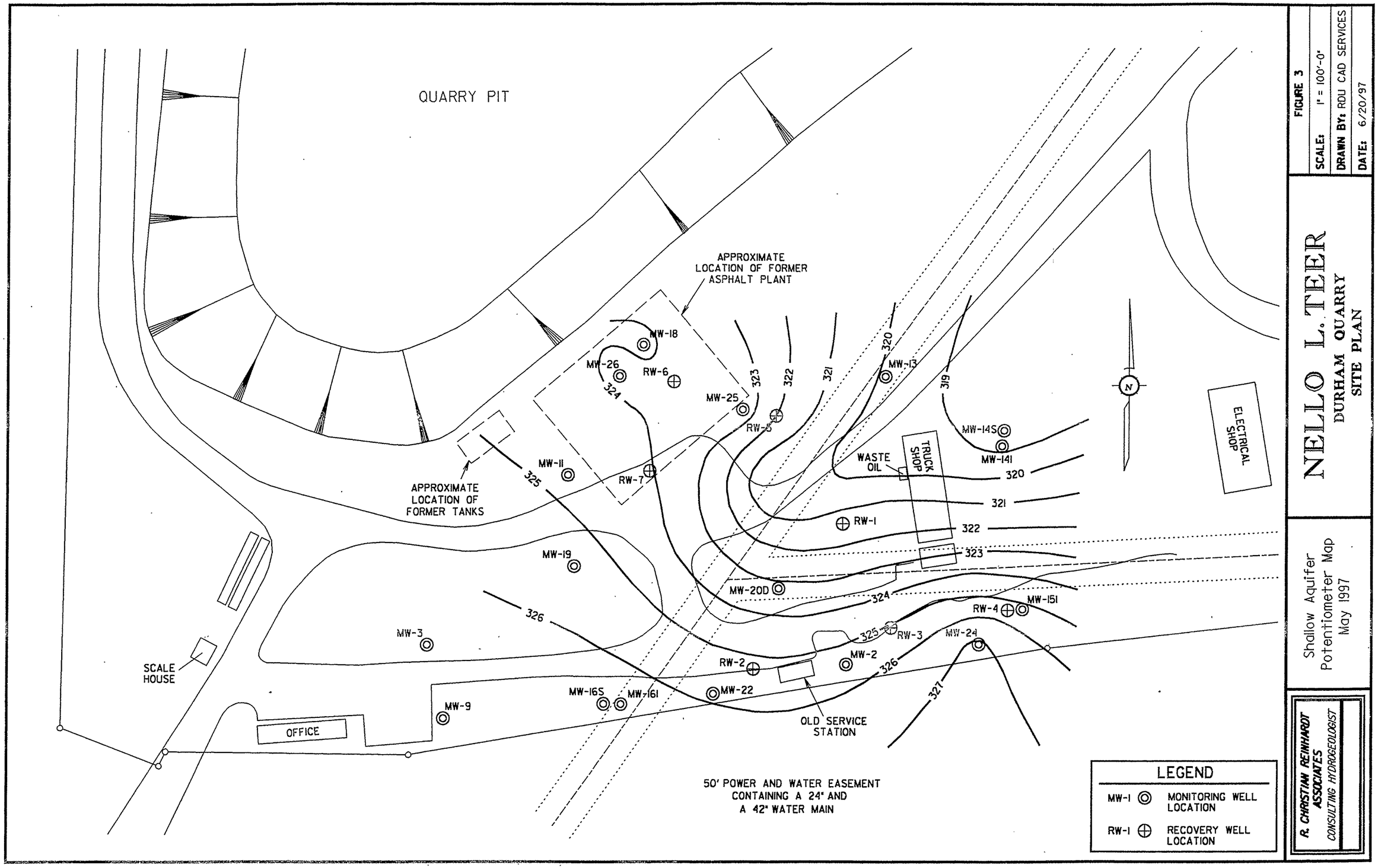


FIGURE 3

SCALE: 1" = 100'-0"

DRAWN BY: RDU CAD SERVICES

DATE: 6/20/97

NELLO L. TER

DURHAM QUARRY

SITE PLAN

Shallow Aquifer Potentiometer Map May 1997

R. CHRISTIAN REINHARDT ASSOCIATES

CONSULTING HYDROGEOLOGIST

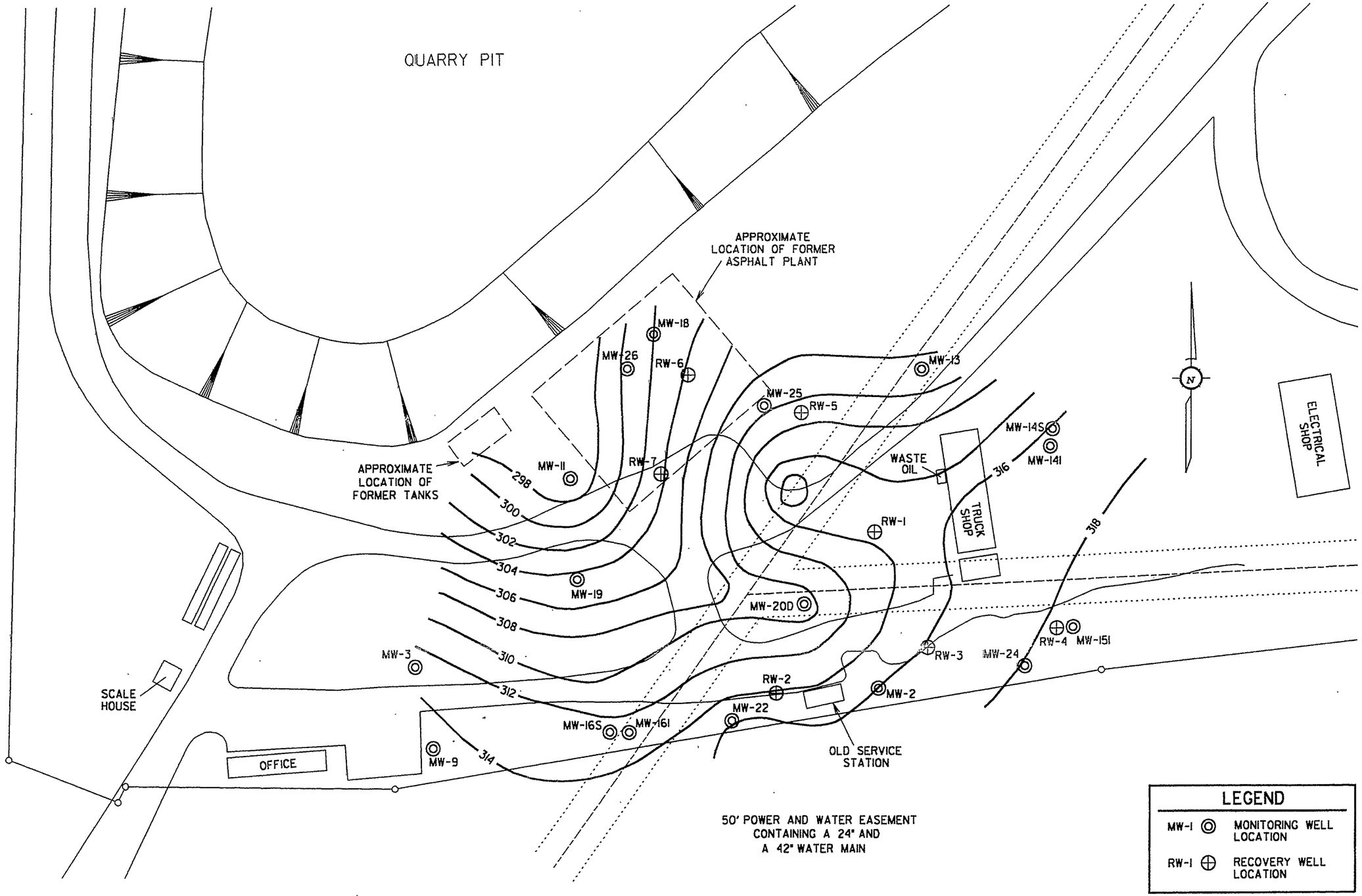


FIGURE 4

SCALE: 1" = 100'-0"

DRAWN BY: RDU CAD SERVICES

DATE: 6/20/97

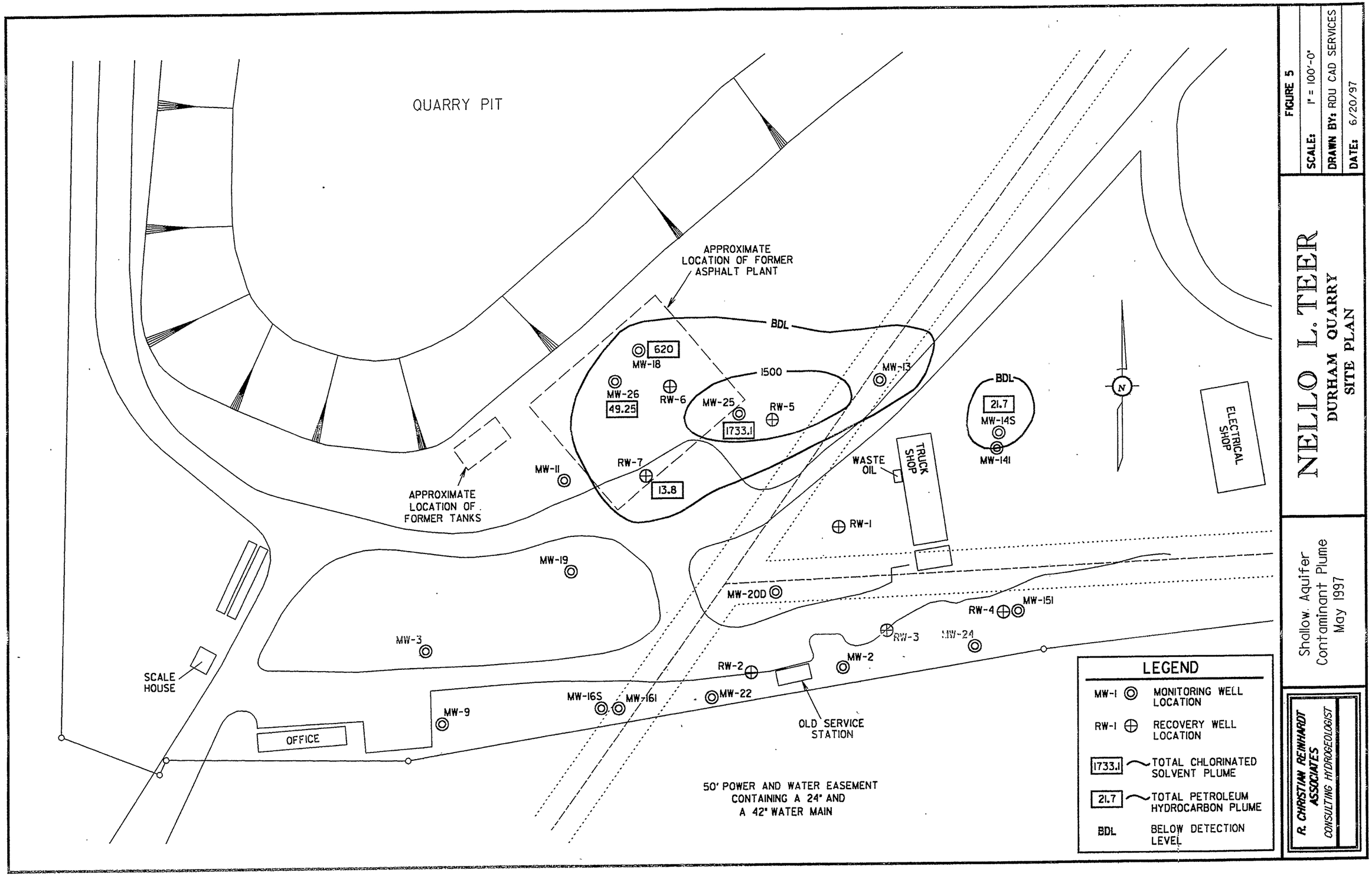
NELLO L. TEER

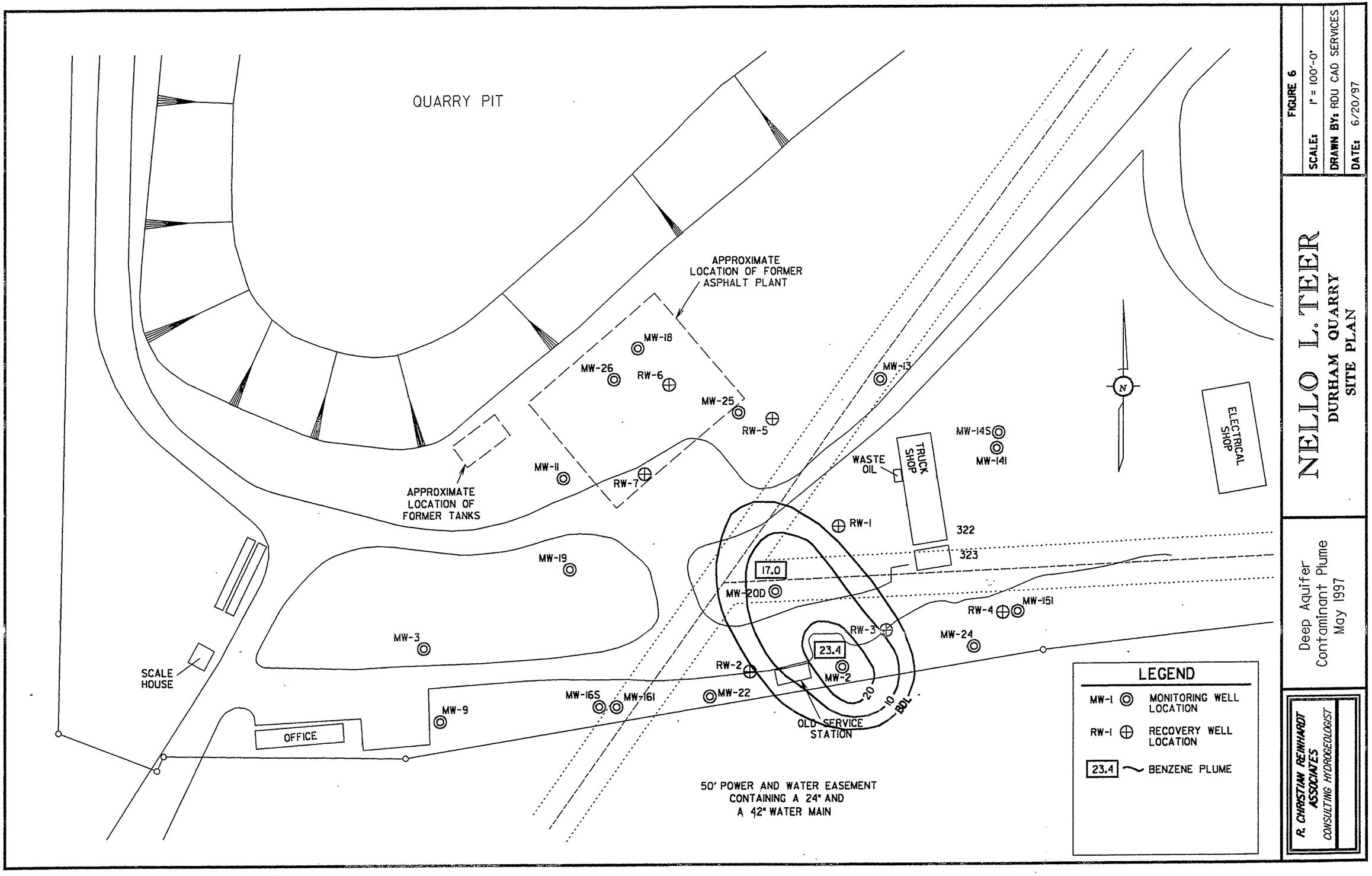
DURHAM QUARRY

SITE PLAN

Deep Aquifer Potentiometer Map
May 1997

R. CHRISTIAN REINHARDT ASSOCIATES
CONSULTING HYDROGEOLOGIST


QUARRY PIT
APPROXIMATE LOCATION OF FORMER ASPHALT PLANT
BDL
1500
620
MW-18
MW-26
49.25
RW-6
MW-25
1733.1
RW-5
MW-13
BDL
21.7
MW-14S
MW-14I
RW-7
13.8
MW-11
APPROXIMATE LOCATION OF FORMER TANKS
WASTE OIL
TRUCK SHOP
ELECTRICAL SHOP
N
RW-1
MW-19
MW-20D
RW-4
MW-15I
RW-3
MW-24
MW-3
MW-2
RW-2
SCALE HOUSE
MW-16S
MW-16I
MW-22
MW-9
OFFICE
OLD SERVICE STATION
50' POWER AND WATER EASEMENT CONTAINING A 24" AND A 42" WATER MAIN
LEGEND
MW-1 MONITORING WELL LOCATION
RW-1 RECOVERY WELL LOCATION
1733.1 TOTAL CHLORINATED SOLVENT PLUME
21.7 TOTAL PETROLEUM HYDROCARBON PLUME
BDL BELOW DETECTION LEVEL
FIGURE 5
SCALE: 1" = 100'-0"
DRAWN BY: RDU CAD SERVICES
DATE: 6/20/97
NELLO L. TEER
DURHAM QUARRY
SITE PLAN
Shallow Aquifer Contaminant Plume May 1997
R. CHRISTIAN REINHARDT ASSOCIATES
CONSULTING HYDROGEOLOGIST


QUARRY PIT
APPROXIMATE LOCATION OF FORMER ASPHALT PLANT
APPROXIMATE LOCATION OF FORMER TANKS
MW-18
MW-26
RW-6
MW-25
RW-5
MW-13
MW-14S
MW-14I
WASTE OIL
TRUCK SHOP
ELECTRICAL SHOP
N
MW-11
RW-7
RW-1
322
323
MW-19
17.0
MW-20D
RW-4
MW-15I
RW-3
MW-24
MW-3
23.4
RW-2
MW-2
20
10
BDL
SCALE HOUSE
MW-16S
MW-16I
MW-22
MW-9
OFFICE
OLD SERVICE STATION
50' POWER AND WATER EASEMENT CONTAINING A 24" AND A 42" WATER MAIN
LEGEND
MW-1 MONITORING WELL LOCATION
RW-1 RECOVERY WELL LOCATION
23.4 BENZENE PLUME
FIGURE 6
SCALE: 1" = 100'-0"
DRAWN BY: RDU CAD SERVICES
DATE: 6/20/97
NELLO L. TEER
DURHAM QUARRY
SITE PLAN
Deep Aquifer Contaminant Plume May 1997
R. CHRISTIAN REINHARDT ASSOCIATES
CONSULTING HYDROGEOLOGIST

APPENDIX

HYDROLOGIC, INC.

May 29, 1997

REPORTING:

BENCHMARK CAROLINAS
7620 MINEVALLEY RD
RALEIGH, NC 27615

INVOICING:

BENCHMARK CAROLINAS
7620 MINEVALLEY RD
RALEIGH, NC 27615

PROJECT NUMBER: K9710868M

DATE COMPLETED: May 29, 1997
DATE RECEIVED: May 16, 1997

PROJECT DESCRIPTION:

97-103--9 water samples were received and analyzed for 601, 602, and 610 by 625-PAH.

Enclosed is the laboratory report for the project described above. If you have any questions or if we can be of further assistance, please feel free to contact Jack Hale Jr. at 1-800-728-2251. We appreciate your business and look forward to serving you again soon.

Respectfully,

Walter Hogg
Laboratory Director

HYDROLOGIC, INC.

COMPANY NAME:	BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER:	97-103
HYDROLOGIC PROJECT NUMBER:	K9710868M
HYDROLOGIC SAMPLE NUMBER:	9710868
HYDROLOGIC LAB ID #:	399
SAMPLE IDENTIFICATION:	MW-22
DATE SAMPLED:	05/13/97
DATE EXTRACTED:	N/A
DATE/TIME ANALYZED:	05/23/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Bromodichloromethane	75-27-4	1.0	BDL
Bromoform	75-25-2	1.0	BDL
Bromomethane	74-83-9	1.0	BDL
Carbon Tetrachloride	56-23-5	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
Chloroethane	75-00-3	1.0	BDL
2-Chloro Ethyl Vinyl Ether	110-75-8	1.0	BDL
Chloroform	67-66-3	1.0	BDL
Chloromethane	74-87-3	1.0	BDL
Dibromochloromethane	124-48-1	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Dichlorodifluoromethane	75-71-8	1.0	BDL
1,1-Dichloroethane	75-34-3	1.0	BDL
1,2-Dichloroethane	107-06-2	1.0	BDL
1,1-Dichloroethene	75-35-4	1.0	BDL
trans-1,2-Dichloroethene	156-60-5	1.0	BDL
1,2-Dichloropropane	78-87-5	1.0	BDL
cis-1,3-Dichloropropene	10061-01-5	1.0	BDL
trans-1,3-Dichloropropene	10061-02-6	1.0	BDL
Methylene Chloride	75-09-2	1.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	1.0	BDL
Tetrachloroethene	127-18-4	1.0	BDL
1,1,1-Trichloroethane	71-55-6	1.0	BDL

HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710868
SAMPLE IDENTIFICATION: MW-22
DATE SAMPLED: 5/13/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
1,1,2-Trichloroethane	79-00-5	1.0	BDL
Trichloroethene	79-01-6	1.0	BDL
Trichlorofluoromethane	75-69-4	1.0	BDL
Vinyl Chloride	75-01-4	1.0	BDL

SURROGATE RECOVERY:
BFB 100%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601

HYDROLOGIC, INC.

COMPANY NAME:	BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER:	97-103
HYDROLOGIC PROJECT NUMBER:	K9710868M
HYDROLOGIC SAMPLE NUMBER:	9710868
HYDROLOGIC LAB ID #:	399
SAMPLE IDENTIFICATION:	MW-22
DATE SAMPLED:	05/13/97
DATE EXTRACTED:	N/A
DATE/TIME ANALYZED:	05/23/97

METHOD 602 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Benzene	71-43-2	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Ethylbenzene	100-41-4	1.0	BDL
Toluene	108-88-3	1.0	BDL
Xylene (Total)	1330-20-7	1.0	BDL
Surrogate Recovery:			
BFB			100%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502.223.2251 FAX 502.875.2016 (TOLL FREE 800.728.2251

HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710868
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-22
DATE SAMPLED: 05/13/97
DATE EXTRACTED: 05/20/97
DATE/TIME ANALYZED: 05/28/97

METHOD 610 by 625

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Naphthalene	91-20-3	2.0	BDL
Acenaphthylene	208-96-8	2.0	BDL
Acenaphthene	83-32-9	2.0	BDL
Fluorene	86-73-7	2.0	BDL
Phenanthrene	85-01-8	2.0	BDL
Anthracene	120-12-7	2.0	BDL
Fluoranthene	206-44-0	2.0	BDL
Pyrene	129-00-0	2.0	BDL
Benzo(a)anthracene	56-55-3	2.0	BDL
Chrysene	218-01-9	2.0	BDL
Benzo(b)fluoranthene	205-99-2	2.0	BDL
Benzo(k)fluoranthene	207-08-9	2.0	BDL
Benzo(a)pyrene	50-32-8	2.0	BDL
Indeno(1,2,3-cd)pyrene	193-39-5	2.0	BDL
Dibenz(a,h)anthracene	53-70-3	2.0	BDL
Benzo(g,h,i)perylene	191-24-2	2.0	BDL
Surrogate Recoveries:			
p-Terphenyl			118%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502.839.9951 FAX: 502.875.9016 / TOLL FREE 800.728.2251

HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710869
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-16I
DATE SAMPLED: 05/13/97
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 05/23/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Bromodichloromethane	75-27-4	1.0	BDL
Bromoform	75-25-2	1.0	BDL
Bromomethane	74-83-9	1.0	BDL
Carbon Tetrachloride	56-23-5	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
Chloroethane	75-00-3	1.0	BDL
2-Chloro Ethyl Vinyl Ether	110-75-8	1.0	BDL
Chloroform	67-66-3	1.0	BDL
Chloromethane	74-87-3	1.0	BDL
Dibromochloromethane	124-48-1	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Dichlorodifluoromethane	75-71-8	1.0	BDL
1,1-Dichloroethane	75-34-3	1.0	BDL
1,2-Dichloroethane	107-06-2	1.0	BDL
1,1-Dichloroethene	75-35-4	1.0	BDL
trans-1,2-Dichloroethene	156-60-5	1.0	BDL
1,2-Dichloropropane	78-87-5	1.0	BDL
cis-1,3-Dichloropropene	10061-01-5	1.0	BDL
trans-1,3-Dichloropropene	10061-02-6	1.0	BDL
Methylene Chloride	75-09-2	1.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	1.0	BDL
Tetrachloroethene	127-18-4	1.0	BDL
1,1,1-Trichloroethane	71-55-6	1.0	BDL

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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710869
SAMPLE IDENTIFICATION: MW-16I
DATE SAMPLED: 5/13/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
1,1,2-Trichloroethane	79-00-5	1.0	BDL
Trichloroethene	79-01-6	1.0	BDL
Trichlorofluoromethane	75-69-4	1.0	BDL
Vinyl Chloride	75-01-4	1.0	BDL
SURROGATE RECOVERY:			
BFB			99%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710869
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-16I
DATE SAMPLED: 05/13/97
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 05/23/97

METHOD 602 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Benzene	71-43-2	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Ethylbenzene	100-41-4	1.0	BDL
Toluene	108-88-3	1.0	BDL
Xylene (Total)	1330-20-7	1.0	BDL
Surrogate Recovery:			
BFB			99%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601

HYDROLOGIC, INC.

COMPANY NAME:	BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER:	97-103
HYDROLOGIC PROJECT NUMBER:	K9710868M
HYDROLOGIC SAMPLE NUMBER:	9710869
HYDROLOGIC LAB ID #:	399
SAMPLE IDENTIFICATION:	MW-16I
DATE SAMPLED:	05/13/97
DATE EXTRACTED:	05/20/97
DATE/TIME ANALYZED:	05/28/97

METHOD 610 by 625

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Naphthalene	91-20-3	2.0	BDL
Acenaphthylene	208-96-8	2.0	BDL
Acenaphthene	83-32-9	2.0	BDL
Fluorene	86-73-7	2.0	BDL
Phenanthrene	85-01-8	2.0	BDL
Anthracene	120-12-7	2.0	BDL
Fluoranthene	206-44-0	2.0	BDL
Pyrene	129-00-0	2.0	BDL
Benzo(a)anthracene	56-55-3	2.0	BDL
Chrysene	218-01-9	2.0	BDL
Benzo(b)fluoranthene	205-99-2	2.0	BDL
Benzo(k)fluoranthene	207-08-9	2.0	BDL
Benzo(a)pyrene	50-32-8	2.0	BDL
Indeno(1,2,3-cd)pyrene	193-39-5	2.0	BDL
Dibenz(a,h)anthracene	53-70-3	2.0	BDL
Benzo(g,h,i)perylene	191-24-2	2.0	BDL
Surrogate Recoveries:			
p-Terphenyl			132%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710870
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-16S
DATE SAMPLED: 05/13/97
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 05/23/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Bromodichloromethane	75-27-4	1.0	BDL
Bromoform	75-25-2	1.0	BDL
Bromomethane	74-83-9	1.0	BDL
Carbon Tetrachloride	56-23-5	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
Chloroethane	75-00-3	1.0	BDL
2-Chloro Ethyl Vinyl Ether	110-75-8	1.0	BDL
Chloroform	67-66-3	1.0	BDL
Chloromethane	74-87-3	1.0	BDL
Dibromochloromethane	124-48-1	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Dichlorodifluoromethane	75-71-8	1.0	BDL
1,1-Dichloroethane	75-34-3	1.0	BDL
1,2-Dichloroethane	107-06-2	1.0	BDL
1,1-Dichloroethene	75-35-4	1.0	BDL
trans-1,2-Dichloroethene	156-60-5	1.0	BDL
1,2-Dichloropropane	78-87-5	1.0	BDL
cis-1,3-Dichloropropene	10061-01-5	1.0	BDL
trans-1,3-Dichloropropene	10061-02-6	1.0	BDL
Methylene Chloride	75-09-2	1.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	1.0	BDL
Tetrachloroethene	127-18-4	1.0	BDL
1,1,1-Trichloroethane	71-55-6	1.0	BDL

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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710870
SAMPLE IDENTIFICATION: MW-16S
DATE SAMPLED: 5/13/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
1,1,2-Trichloroethane	79-00-5	1.0	BDL
Trichloroethene	79-01-6	1.0	BDL
Trichlorofluoromethane	75-69-4	1.0	BDL
Vinyl Chloride	75-01-4	1.0	BDL

SURROGATE RECOVERY:
BFB 95%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

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HYDROLOGIC, INC.

COMPANY NAME:	BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER:	97-103
HYDROLOGIC PROJECT NUMBER:	K9710868M
HYDROLOGIC SAMPLE NUMBER:	9710870
HYDROLOGIC LAB ID #:	399
SAMPLE IDENTIFICATION:	MW-16S
DATE SAMPLED:	05/13/97
DATE EXTRACTED:	N/A
DATE/TIME ANALYZED:	05/23/97

METHOD 602 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Benzene	71-43-2	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Ethylbenzene	100-41-4	1.0	BDL
Toluene	108-88-3	1.0	BDL
Xylene (Total)	1330-20-7	1.0	BDL
Surrogate Recovery:			
BFB			95%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710870
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-16S
DATE SAMPLED: 05/13/97
DATE EXTRACTED: 05/20/97
DATE/TIME ANALYZED: 05/28/97

METHOD 610 by 625

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Naphthalene	91-20-3	2.0	BDL
Acenaphthylene	208-96-8	2.0	BDL
Acenaphthene	83-32-9	2.0	BDL
Fluorene	86-73-7	2.0	BDL
Phenanthrene	85-01-8	2.0	BDL
Anthracene	120-12-7	2.0	BDL
Fluoranthene	206-44-0	2.0	BDL
Pyrene	129-00-0	2.0	BDL
Benzo(a)anthracene	56-55-3	2.0	BDL
Chrysene	218-01-9	2.0	BDL
Benzo(b)fluoranthene	205-99-2	2.0	BDL
Benzo(k)fluoranthene	207-08-9	2.0	BDL
Benzo(a)pyrene	50-32-8	2.0	BDL
Indeno(1,2,3-cd)pyrene	193-39-5	2.0	BDL
Dibenz(a,h)anthracene	53-70-3	2.0	BDL
Benzo(g,h,i)perylene	191-24-2	2.0	BDL
Surrogate Recoveries:			
p-Terphenyl			120%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601

HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710871
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-19
DATE SAMPLED: 05/14/97
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 05/23/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Bromodichloromethane	75-27-4	1.0	BDL
Bromoform	75-25-2	1.0	BDL
Bromomethane	74-83-9	1.0	BDL
Carbon Tetrachloride	56-23-5	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
Chloroethane	75-00-3	1.0	BDL
2-Chloro Ethyl Vinyl Ether	110-75-8	1.0	BDL
Chloroform	67-66-3	1.0	BDL
Chloromethane	74-87-3	1.0	BDL
Dibromochloromethane	124-48-1	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Dichlorodifluoromethane	75-71-8	1.0	BDL
1,1-Dichloroethane	75-34-3	1.0	BDL
1,2-Dichloroethane	107-06-2	1.0	BDL
1,1-Dichloroethene	75-35-4	1.0	BDL
trans-1,2-Dichloroethene	156-60-5	1.0	BDL
1,2-Dichloropropane	78-87-5	1.0	BDL
cis-1,3-Dichloropropene	10061-01-5	1.0	BDL
trans-1,3-Dichloropropene	10061-02-6	1.0	BDL
Methylene Chloride	75-09-2	1.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	1.0	BDL
Tetrachloroethene	127-18-4	1.0	BDL
1,1,1-Trichloroethane	71-55-6	1.0	BDL

1491 TWILIGHT TRAIL FRANKFORT, KY 40601

HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710871
SAMPLE IDENTIFICATION: MW-19
DATE SAMPLED: 5/14/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
1,1,2-Trichloroethane	79-00-5	1.0	BDL
Trichloroethene	79-01-6	1.0	BDL
Trichlorofluoromethane	75-69-4	1.0	BDL
Vinyl Chloride	75-01-4	1.0	BDL
SURROGATE RECOVERY:			
BFB			90%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

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HYDROLOGIC, INC.

COMPANY NAME:	BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER:	97-103
HYDROLOGIC PROJECT NUMBER:	K9710868M
HYDROLOGIC SAMPLE NUMBER:	9710871
HYDROLOGIC LAB ID #:	399
SAMPLE IDENTIFICATION:	MW-19
DATE SAMPLED:	05/14/97
DATE EXTRACTED:	N/A
DATE/TIME ANALYZED:	05/23/97

METHOD 602 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Benzene	71-43-2	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Ethylbenzene	100-41-4	1.0	BDL
Toluene	108-88-3	1.0	BDL
Xylene (Total)	1330-20-7	1.0	BDL
Surrogate Recovery:			
BFB			90%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710871
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-19
DATE SAMPLED: 05/14/97
DATE EXTRACTED: 05/20/97
DATE/TIME ANALYZED: 05/28/97

METHOD 610 by 625

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Naphthalene	91-20-3	2.0	BDL
Acenaphthylene	208-96-8	2.0	BDL
Acenaphthene	83-32-9	2.0	BDL
Fluorene	86-73-7	2.0	BDL
Phenanthrene	85-01-8	2.0	BDL
Anthracene	120-12-7	2.0	BDL
Fluoranthene	206-44-0	2.0	BDL
Pyrene	129-00-0	2.0	BDL
Benzo(a)anthracene	56-55-3	2.0	BDL
Chrysene	218-01-9	2.0	BDL
Benzo(b)fluoranthene	205-99-2	2.0	BDL
Benzo(k)fluoranthene	207-08-9	2.0	BDL
Benzo(a)pyrene	50-32-8	2.0	BDL
Indeno(1,2,3-cd)pyrene	193-39-5	2.0	BDL
Dibenz(a,h)anthracene	53-70-3	2.0	BDL
Benzo(g,h,i)perylene	191-24-2	2.0	BDL
Surrogate Recoveries:			
p-Terphenyl			134%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710872
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-11
DATE SAMPLED: 05/14/97
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 05/23/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Bromodichloromethane	75-27-4	1.0	BDL
Bromoform	75-25-2	1.0	BDL
Bromomethane	74-83-9	1.0	BDL
Carbon Tetrachloride	56-23-5	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
Chloroethane	75-00-3	1.0	BDL
2-Chloro Ethyl Vinyl Ether	110-75-8	1.0	BDL
Chloroform	67-66-3	1.0	BDL
Chloromethane	74-87-3	1.0	BDL
Dibromochloromethane	124-48-1	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Dichlorodifluoromethane	75-71-8	1.0	BDL
1,1-Dichloroethane	75-34-3	1.0	BDL
1,2-Dichloroethane	107-06-2	1.0	BDL
1,1-Dichloroethene	75-35-4	1.0	BDL
trans-1,2-Dichloroethene	156-60-5	1.0	BDL
1,2-Dichloropropane	78-87-5	1.0	BDL
cis-1,3-Dichloropropene	10061-01-5	1.0	BDL
trans-1,3-Dichloropropene	10061-02-6	1.0	BDL
Methylene Chloride	75-09-2	1.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	1.0	BDL
Tetrachloroethene	127-18-4	1.0	BDL
1,1,1-Trichloroethane	71-55-6	1.0	BDL

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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710872
SAMPLE IDENTIFICATION: MW-11
DATE SAMPLED: 5/14/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
1,1,2-Trichloroethane	79-00-5	1.0	BDL
Trichloroethene	79-01-6	1.0	BDL
Trichlorofluoromethane	75-69-4	1.0	BDL
Vinyl Chloride	75-01-4	1.0	BDL
SURROGATE RECOVERY:			
BFB			90%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

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HYDROLOGIC, INC.

COMPANY NAME:	BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER:	97-103
HYDROLOGIC PROJECT NUMBER:	K9710868M
HYDROLOGIC SAMPLE NUMBER:	9710872
HYDROLOGIC LAB ID #:	399
SAMPLE IDENTIFICATION:	MW-11
DATE SAMPLED:	05/14/97
DATE EXTRACTED:	N/A
DATE/TIME ANALYZED:	05/23/97

METHOD 602 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Benzene	71-43-2	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Ethylbenzene	100-41-4	1.0	BDL
Toluene	108-88-3	1.0	BDL
Xylene (Total)	1330-20-7	1.0	BDL
Surrogate Recovery:			
BFB			90%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710872
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-11
DATE SAMPLED: 05/14/97
DATE EXTRACTED: 05/20/97
DATE/TIME ANALYZED: 05/28/97

METHOD 610 by 625

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Naphthalene	91-20-3	2.0	BDL
Acenaphthylene	208-96-8	2.0	BDL
Acenaphthene	83-32-9	2.0	BDL
Fluorene	86-73-7	2.0	BDL
Phenanthrene	85-01-8	2.0	BDL
Anthracene	120-12-7	2.0	BDL
Fluoranthene	206-44-0	2.0	BDL
Pyrene	129-00-0	2.0	BDL
Benzo(a)anthracene	56-55-3	2.0	BDL
Chrysene	218-01-9	2.0	BDL
Benzo(b)fluoranthene	205-99-2	2.0	BDL
Benzo(k)fluoranthene	207-08-9	2.0	BDL
Benzo(a)pyrene	50-32-8	2.0	BDL
Indeno(1,2,3-cd)pyrene	193-39-5	2.0	BDL
Dibenz(a,h)anthracene	53-70-3	2.0	BDL
Benzo(g,h,i)perylene	191-24-2	2.0	BDL
Surrogate Recoveries:			
p-Terphenyl			122%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
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HYDROLOGIC, INC.

COMPANY NAME:	BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER:	97-103
HYDROLOGIC PROJECT NUMBER:	K9710868M
HYDROLOGIC SAMPLE NUMBER:	9710873
HYDROLOGIC LAB ID #:	399
SAMPLE IDENTIFICATION:	MW-18
DATE SAMPLED:	05/14/97
DATE EXTRACTED:	N/A
DATE/TIME ANALYZED:	05/23/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Bromodichloromethane	75-27-4	1.0	BDL
Bromoform	75-25-2	1.0	BDL
Bromomethane	74-83-9	1.0	BDL
Carbon Tetrachloride	56-23-5	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
Chloroethane	75-00-3	1.0	BDL
2-Chloro Ethyl Vinyl Ether	110-75-8	1.0	BDL
Chloroform	67-66-3	1.0	BDL
Chloromethane	74-87-3	1.0	BDL
Dibromochloromethane	124-48-1	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Dichlorodifluoromethane	75-71-8	1.0	BDL
1,1-Dichloroethane	75-34-3	1.0	BDL
1,2-Dichloroethane	107-06-2	1.0	BDL
1,1-Dichloroethene	75-35-4	1.0	BDL
trans-1,2-Dichloroethene	156-60-5	1.0	BDL
1,2-Dichloropropane	78-87-5	1.0	BDL
cis-1,3-Dichloropropene	10061-01-5	1.0	BDL
trans-1,3-Dichloropropene	10061-02-6	1.0	BDL
Methylene Chloride	75-09-2	1.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	1.0	BDL
Tetrachloroethene	127-18-4	1.0	BDL
1,1,1-Trichloroethane	71-55-6	1.0	BDL

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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710873
SAMPLE IDENTIFICATION: MW-18
DATE SAMPLED: 5/14/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
1,1,2-Trichloroethane	79-00-5	1.0	BDL
Trichloroethene	79-01-6	1.0	BDL
Trichlorofluoromethane	75-69-4	1.0	BDL
Vinyl Chloride	**75-01-4**	**1.0**	**1.20**

SURROGATE RECOVERY:
BFB 91%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710873
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-18
DATE SAMPLED: 05/14/97
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 05/23/97

METHOD 602 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Benzene	71-43-2	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Ethylbenzene	100-41-4	1.0	BDL
Toluene	108-88-3	1.0	BDL
Xylene (Total)	1330-20-7	1.0	BDL
Surrogate Recovery:			
BFB			91%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710873
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-18
DATE SAMPLED: 05/14/97
DATE EXTRACTED: 05/20/97
DATE/TIME ANALYZED: 05/28/97

METHOD 610 by 625

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Naphthalene	91-20-3	2.0	BDL
Acenaphthylene	208-96-8	2.0	BDL
Acenaphthene	83-32-9	2.0	BDL
Fluorene	86-73-7	2.0	BDL
Phenanthrene	85-01-8	2.0	BDL
Anthracene	120-12-7	2.0	BDL
Fluoranthene	206-44-0	2.0	BDL
Pyrene	129-00-0	2.0	BDL
Benzo(a)anthracene	56-55-3	2.0	BDL
Chrysene	218-01-9	2.0	BDL
Benzo(b)fluoranthene	205-99-2	2.0	BDL
Benzo(k)fluoranthene	207-08-9	2.0	BDL
Benzo(a)pyrene	50-32-8	2.0	BDL
Indeno(1,2,3-cd)pyrene	193-39-5	2.0	BDL
Dibenz(a,h)anthracene	53-70-3	2.0	BDL
Benzo(g,h,i)perylene	191-24-2	2.0	BDL
Surrogate Recoveries:			
p-Terphenyl			132%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

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HYDROLOGIC, INC.

COMPANY NAME:	BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER:	97-103
HYDROLOGIC PROJECT NUMBER:	K9710868M
HYDROLOGIC SAMPLE NUMBER:	9710874
HYDROLOGIC LAB ID #:	399
SAMPLE IDENTIFICATION:	MW-26
DATE SAMPLED:	05/14/97
DATE EXTRACTED:	N/A
DATE/TIME ANALYZED:	05/23/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Bromodichloromethane	75-27-4	1.0	BDL
Bromoform	75-25-2	1.0	BDL
Bromomethane	74-83-9	1.0	BDL
Carbon Tetrachloride	56-23-5	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
Chloroethane	75-00-3	1.0	BDL
2-Chloro Ethyl Vinyl Ether	110-75-8	1.0	BDL
Chloroform	67-66-3	1.0	BDL
Chloromethane	74-87-3	1.0	BDL
Dibromochloromethane	124-48-1	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Dichlorodifluoromethane	75-71-8	1.0	BDL
1,1-Dichloroethane	**75-34-3**	**1.0**	**30.6**
1,2-Dichloroethane	107-06-2	1.0	BDL
1,1-Dichloroethene	**75-35-4**	**1.0**	**4.85**
trans-1,2-Dichloroethene	156-60-5	1.0	BDL
1,2-Dichloropropane	78-87-5	1.0	BDL
cis-1,3-Dichloropropene	10061-01-5	1.0	BDL
trans-1,3-Dichloropropene	10061-02-6	1.0	BDL
Methylene Chloride	75-09-2	1.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	1.0	BDL
Tetrachloroethene	127-18-4	1.0	BDL
1,1,1-Trichloroethane	71-55-6	1.0	BDL

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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710874
SAMPLE IDENTIFICATION: MW-26
DATE SAMPLED: 5/14/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
1,1,2-Trichloroethane	79-00-5	1.0	BDL
Trichloroethene	79-01-6	1.0	BDL
Trichlorofluoromethane	75-69-4	1.0	BDL
Vinyl Chloride	**75-01-4**	**1.0**	**13.8**

SURROGATE RECOVERY:
BFB 88%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
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HYDROLOGIC, INC.

COMPANY NAME:	BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER:	97-103
HYDROLOGIC PROJECT NUMBER:	K9710868M
HYDROLOGIC SAMPLE NUMBER:	9710874
HYDROLOGIC LAB ID #:	399
SAMPLE IDENTIFICATION:	MW-26
DATE SAMPLED:	05/14/97
DATE EXTRACTED:	N/A
DATE/TIME ANALYZED:	05/23/97

METHOD 602 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Benzene	71-43-2	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Ethylbenzene	100-41-4	1.0	BDL
Toluene	108-88-3	1.0	BDL
Xylene (Total)	1330-20-7	1.0	BDL
Surrogate Recovery:			
BFB			88%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710874
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-26
DATE SAMPLED: 05/14/97
DATE EXTRACTED: 05/20/97
DATE/TIME ANALYZED: 05/28/97

METHOD 610 by 625

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Naphthalene	91-20-3	2.0	BDL
Acenaphthylene	208-96-8	2.0	BDL
Acenaphthene	83-32-9	2.0	BDL
Fluorene	86-73-7	2.0	BDL
Phenanthrene	85-01-8	2.0	BDL
Anthracene	120-12-7	2.0	BDL
Fluoranthene	206-44-0	2.0	BDL
Pyrene	129-00-0	2.0	BDL
Benzo(a)anthracene	56-55-3	2.0	BDL
Chrysene	218-01-9	2.0	BDL
Benzo(b)fluoranthene	205-99-2	2.0	BDL
Benzo(k)fluoranthene	207-08-9	2.0	BDL
Benzo(a)pyrene	50-32-8	2.0	BDL
Indeno(1,2,3-cd)pyrene	193-39-5	2.0	BDL
Dibenz(a,h)anthracene	53-70-3	2.0	BDL
Benzo(g,h,i)perylene	191-24-2	2.0	BDL
Surrogate Recoveries:			
p-Terphenyl			166%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710875
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-17
DATE SAMPLED: 05/14/97
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 05/23/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Bromodichloromethane	75-27-4	1.0	BDL
Bromoform	75-25-2	1.0	BDL
Bromomethane	74-83-9	1.0	BDL
Carbon Tetrachloride	56-23-5	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
Chloroethane	75-00-3	1.0	BDL
2-Chloro Ethyl Vinyl Ether	110-75-8	1.0	BDL
Chloroform	67-66-3	1.0	BDL
Chloromethane	74-87-3	1.0	BDL
Dibromochloromethane	124-48-1	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Dichlorodifluoromethane	75-71-8	1.0	BDL
1,1-Dichloroethane	**75-34-3**	**1.0**	**4.88**
1,2-Dichloroethane	107-06-2	1.0	BDL
1,1-Dichloroethene	75-35-4	1.0	BDL
trans-1,2-Dichloroethene	156-60-5	1.0	BDL
1,2-Dichloropropane	78-87-5	1.0	BDL
cis-1,3-Dichloropropene	10061-01-5	1.0	BDL
trans-1,3-Dichloropropene	10061-02-6	1.0	BDL
Methylene Chloride	75-09-2	1.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	1.0	BDL
Tetrachloroethene	127-18-4	1.0	BDL
1,1,1-Trichloroethane	71-55-6	1.0	BDL

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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710875
SAMPLE IDENTIFICATION: MW-17
DATE SAMPLED: 5/14/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
1,1,2-Trichloroethane	79-00-5	1.0	BDL
Trichloroethene	79-01-6	1.0	BDL
Trichlorofluoromethane	75-69-4	1.0	BDL
Vinyl Chloride	**75-01-4**	**1.0**	**8.92**

SURROGATE RECOVERY:
BFB 95%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

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HYDROLOGIC, INC.

COMPANY NAME:	BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER:	97-103
HYDROLOGIC PROJECT NUMBER:	K9710868M
HYDROLOGIC SAMPLE NUMBER:	9710875
HYDROLOGIC LAB ID #:	399
SAMPLE IDENTIFICATION:	MW-17
DATE SAMPLED:	05/14/97
DATE EXTRACTED:	N/A
DATE/TIME ANALYZED:	05/23/97

METHOD 602 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Benzene	71-43-2	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Ethylbenzene	100-41-4	1.0	BDL
Toluene	108-88-3	1.0	BDL
Xylene (Total)	1330-20-7	1.0	BDL
Surrogate Recovery:			
BFB			95%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601

HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710875
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-17
DATE SAMPLED: 05/14/97
DATE EXTRACTED: 05/20/97
DATE/TIME ANALYZED: 05/28/97

METHOD 610 by 625

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Naphthalene	91-20-3	2.0	BDL
Acenaphthylene	208-96-8	2.0	BDL
Acenaphthene	83-32-9	2.0	BDL
Fluorene	86-73-7	2.0	BDL
Phenanthrene	85-01-8	2.0	BDL
Anthracene	120-12-7	2.0	BDL
Fluoranthene	206-44-0	2.0	BDL
Pyrene	129-00-0	2.0	BDL
Benzo(a)anthracene	56-55-3	2.0	BDL
Chrysene	218-01-9	2.0	BDL
Benzo(b)fluoranthene	205-99-2	2.0	BDL
Benzo(k)fluoranthene	207-08-9	2.0	BDL
Benzo(a)pyrene	50-32-8	2.0	BDL
Indeno(1,2,3-cd)pyrene	193-39-5	2.0	BDL
Dibenz(a,h)anthracene	53-70-3	2.0	BDL
Benzo(g,h,i)perylene	191-24-2	2.0	BDL
Surrogate Recoveries:			
p-Terphenyl			92%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710878
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-25
DATE SAMPLED: 05/14/97
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 05/23/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Bromodichloromethane	75-27-4	1.0	BDL
Bromoform	75-25-2	1.0	BDL
Bromomethane	74-83-9	1.0	BDL
Carbon Tetrachloride	56-23-5	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
Chloroethane	**75-00-3**	**1.0**	**6.03**
2-Chloro Ethyl Vinyl Ether	110-75-8	1.0	BDL
Chloroform	67-66-3	1.0	BDL
Chloromethane	74-87-3	1.0	BDL
Dibromochloromethane	124-48-1	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Dichlorodifluoromethane	75-71-8	1.0	BDL
1,1-Dichloroethane	**75-34-3**	**1.0**	**188**
1,2-Dichloroethane	107-06-2	1.0	BDL
1,1-Dichloroethene	**75-35-4**	**1.0**	**360**
trans-1,2-Dichloroethene	156-60-5	1.0	BDL
1,2-Dichloropropane	78-87-5	1.0	BDL
cis-1,3-Dichloropropene	10061-01-5	1.0	BDL
trans-1,3-Dichloropropene	10061-02-6	1.0	BDL
Methylene Chloride	75-09-2	1.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	1.0	BDL
Tetrachloroethene	**127-18-4**	**1.0**	**1.41**
1,1,1-Trichloroethane	**71-55-6**	**1.0**	**1048**

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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710878
SAMPLE IDENTIFICATION: MW-25
DATE SAMPLED: 5/14/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
1,1,2-Trichloroethane	**79-00-5**	**1.0**	**1.66**
Trichloroethene	**79-01-6**	**1.0**	**106**
Trichlorofluoromethane	75-69-4	1.0	BDL
Vinyl Chloride	**75-01-4**	**1.0**	**22.0**

SURROGATE RECOVERY:
BFB 88%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710878
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-25
DATE SAMPLED: 05/14/97
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 05/23/97

METHOD 602 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Benzene	71-43-2	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Ethylbenzene	100-41-4	1.0	BDL
Toluene	108-88-3	1.0	BDL
Xylene (Total)	1330-20-7	1.0	BDL
Surrogate Recovery:			
BFB			88%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9710868M
HYDROLOGIC SAMPLE NUMBER: 9710878
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-25
DATE SAMPLED: 05/14/97
DATE EXTRACTED: 05/20/97
DATE/TIME ANALYZED: 05/28/97

METHOD 610 by 625

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Naphthalene	91-20-3	2.0	BDL
Acenaphthylene	208-96-8	2.0	BDL
Acenaphthene	83-32-9	2.0	BDL
Fluorene	86-73-7	2.0	BDL
Phenanthrene	85-01-8	2.0	BDL
Anthracene	120-12-7	2.0	BDL
Fluoranthene	206-44-0	2.0	BDL
Pyrene	129-00-0	2.0	BDL
Benzo(a)anthracene	56-55-3	2.0	BDL
Chrysene	218-01-9	2.0	BDL
Benzo(b)fluoranthene	205-99-2	2.0	BDL
Benzo(k)fluoranthene	207-08-9	2.0	BDL
Benzo(a)pyrene	50-32-8	2.0	BDL
Indeno(1,2,3-cd)pyrene	193-39-5	2.0	BDL
Dibenz(a,h)anthracene	53-70-3	2.0	BDL
Benzo(g,h,i)perylene	191-24-2	2.0	BDL
Surrogate Recoveries:			
p-Terphenyl			166%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: ELEVATED SURROGATE STANDARD PERCENT RECOVERY DUE TO SAMPLE MATRIX INTERFERENCE.

1491 TWILIGHT TRAIL FRANKFORT, KY 40601

HYDROLOGIC, INC.

Chain of Custody Record

☐ 122 Lyman Street, Asheville, NC 28801, (704)254-5169, FAX (704) 252-9711
☐ 1412 Oakbrook Drive #105, Norcross, Georgia 30093, (770) 368-0636, FAX (770) 368-0806
☐ 1491 Twilight Trail, Frankfort, KY 40601, (502) 223-0251, FAX (502) 875-8016
☐ 2003 North Pine Street, Lumberton, NC 28358, (910) 738-6190, FAX (910) 671-8837
☐ I-85 S Bldg. 2848, Charlotte, NC 28208, (704) 392-1164, FAX (704) 392-9073
☐ 2500 Gateway Centre, Morrisville, NC 27560, (919) 380-9699, FAX (919) 380-9717
☐ 4875 Riverside Drive, Macon, GA 31210, (912) 757-0811, FAX (912) 757-0149
☐ 695 N Seventh Ave, Brighton, CO. 80601, (303) 659-0497, FAX (303) 659-5064

97-0957

Client: BENCHMARK CAROLINA
Report Address: 7620 MINE VALLEY RD
RALEIGH, NC 27615
Attn: CHRIS REINHARDT
Phone No.: 919-870-9129
Fax No.:

Project No.: 97-103
Invoice Address: P.O. Box 13983
RTP, NC 27709
Attn: STEVE EDGERTON
Sampled By: C. REINHARDT
P.O. No:
State Samples Collected: NC

TURNAROUND TIME
☐ 24 Hours ☐ 48 Hours
☐ 5 Days ☐ 10 Days
Date Needed: 5-23-97

REQUESTED PARAMETERS

601 | 602
610

R9710868 (M)

L = Lumberton, NC
M = Morrisville, NC
N = Norcross
S = Subcontracted

Sample ID	Date	Time	Comp/Grab	Matrix	Containers	601	602									← Preserv.	REMARKS
MW-22	5/13/97	1650	G	H_2O	4	✓	✓										DURHAM QUARRY
MW-16I	"	1655				✓	✓										COMPLIANCE MONITORIN
MW-16S	"	1700				✓	✓										
MW-19	5/14/97	1545				✓	✓										
MW-11	"	1550				✓	✓										
MW-18	"	1555				✓	✓										
MW-26	"	1600				✓	✓										
MW-17	"	1605				✓	✓										
MW-25	"	1610				✓	✓										
Lab Use Only			Custody Seal: ☐Yes ☐No ☐N/A			K	K									recd on ice Init Lab Temp.	recd on ice Rec. Lab Temp

COMMENTS:

Relinquished By:	Date	Time	Received By:	Date	Time	Lab Use Only:
Chris Reinhardt	5/15/97	1055	Lisa Lupes	5/15	1055	
[illegible]	5/15/97	1800	Debra L. Estes	5/15/97	1000	

HYDROLOGIC, INC.

May 29, 1997

REPORTING:

BENCHMARK CAROLINAS
7620 MINEVALLEY RD
RALEIGH, NC 27615

INVOICING:

BENCHMARK CAROLINAS
7620 MINEVALLEY RD
RALEIGH, NC 27615

PROJECT NUMBER: K9711056M

DATE COMPLETED: May 29, 1997
DATE RECEIVED: May 17, 1997

PROJECT DESCRIPTION:

97-103--5 water samples were received and analyzed for 601, 602, and 610 by 625-PAH.

Enclosed is the laboratory report for the project described above. If you have any questions or if we can be of further assistance, please feel free to **contact Jack Hale Jr. at 1-800-728-2251.** We appreciate your business and look forward to serving you again soon.

Respectfully,

Walter Hogg
Laboratory Director

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502.223.0251 FAX: 502.875.8016 / TOLL FREE 800.728.2251

HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9711056M
HYDROLOGIC SAMPLE NUMBER: 9711056
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-23
DATE SAMPLED: 05/15/97
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 05/28/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Bromodichloromethane	75-27-4	1.0	BDL
Bromoform	75-25-2	1.0	BDL
Bromomethane	74-83-9	1.0	BDL
Carbon Tetrachloride	56-23-5	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
Chloroethane	75-00-3	1.0	BDL
2-Chloro Ethyl Vinyl Ether	110-75-8	1.0	BDL
Chloroform	67-66-3	1.0	BDL
Chloromethane	74-87-3	1.0	BDL
Dibromochloromethane	124-48-1	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Dichlorodifluoromethane	75-71-8	1.0	BDL
1,1-Dichloroethane	75-34-3	1.0	BDL
1,2-Dichloroethane	107-06-2	1.0	BDL
1,1-Dichloroethene	75-35-4	1.0	BDL
trans-1,2-Dichloroethene	156-60-5	1.0	BDL
1,2-Dichloropropane	78-87-5	1.0	BDL
cis-1,3-Dichloropropene	10061-01-5	1.0	BDL
trans-1,3-Dichloropropene	10061-02-6	1.0	BDL
Methylene Chloride	75-09-2	1.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	1.0	BDL
Tetrachloroethene	127-18-4	1.0	BDL
1,1,1-Trichloroethane	71-55-6	1.0	BDL

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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9711056M
HYDROLOGIC SAMPLE NUMBER: 9711056
SAMPLE IDENTIFICATION: MW-23
DATE SAMPLED: 5/15/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
1,1,2-Trichloroethane	79-00-5	1.0	BDL
Trichloroethene	79-01-6	1.0	BDL
Trichlorofluoromethane	75-69-4	1.0	BDL
Vinyl Chloride	75-01-4	1.0	BDL

SURROGATE RECOVERY:
BFB 88%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
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HYDROLOGIC, INC.

COMPANY NAME:	BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER:	97-103
HYDROLOGIC PROJECT NUMBER:	K9711056M
HYDROLOGIC SAMPLE NUMBER:	9711056
HYDROLOGIC LAB ID #:	399
SAMPLE IDENTIFICATION:	MW-23
DATE SAMPLED:	05/15/97
DATE EXTRACTED:	N/A
DATE/TIME ANALYZED:	05/28/97

METHOD 602 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Benzene	**71-43-2**	**1.0**	**23.4**
Chlorobenzene	108-90-7	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Ethylbenzene	**100-41-4**	**1.0**	**5.07**
Toluene	**108-88-3**	**1.0**	**2.78**
Xylene (Total)	**1330-20-7**	**1.0**	**19.5**
Surrogate Recovery:			
BFB			88%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9711056M
HYDROLOGIC SAMPLE NUMBER: 9711056
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-23
DATE SAMPLED: 05/15/97
DATE EXTRACTED: 05/22/97
DATE/TIME ANALYZED: 05/26/97

METHOD 610 by 625

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Naphthalene	**91-20-3**	**2.0**	**4.24**
Acenaphthylene	208-96-8	2.0	BDL
Acenaphthene	83-32-9	2.0	BDL
Fluorene	86-73-7	2.0	BDL
Phenanthrene	85-01-8	2.0	BDL
Anthracene	120-12-7	2.0	BDL
Fluoranthene	206-44-0	2.0	BDL
Pyrene	129-00-0	2.0	BDL
Benzo(a)anthracene	56-55-3	2.0	BDL
Chrysene	218-01-9	2.0	BDL
Benzo(b)fluoranthene	205-99-2	2.0	BDL
Benzo(k)fluoranthene	207-08-9	2.0	BDL
Benzo(a)pyrene	50-32-8	2.0	BDL
Indeno(1,2,3-cd)pyrene	193-39-5	2.0	BDL
Dibenz(a,h)anthracene	53-70-3	2.0	BDL
Benzo(g,h,i)perylene	191-24-2	2.0	BDL
Surrogate Recoveries:			
p-Terphenyl			108%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
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HYDROLOGIC, INC.

COMPANY NAME:	BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER:	97-103
HYDROLOGIC PROJECT NUMBER:	K9711056M
HYDROLOGIC SAMPLE NUMBER:	9711057
HYDROLOGIC LAB ID #:	399
SAMPLE IDENTIFICATION:	MW-24
DATE SAMPLED:	05/15/97
DATE EXTRACTED:	N/A
DATE/TIME ANALYZED:	05/27/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Bromodichloromethane	75-27-4	1.0	BDL
Bromoform	75-25-2	1.0	BDL
Bromomethane	74-83-9	1.0	BDL
Carbon Tetrachloride	56-23-5	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
Chloroethane	75-00-3	1.0	BDL
2-Chloro Ethyl Vinyl Ether	110-75-8	1.0	BDL
Chloroform	67-66-3	1.0	BDL
Chloromethane	74-87-3	1.0	BDL
Dibromochloromethane	124-48-1	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Dichlorodifluoromethane	75-71-8	1.0	BDL
1,1-Dichloroethane	75-34-3	1.0	BDL
1,2-Dichloroethane	107-06-2	1.0	BDL
1,1-Dichloroethene	75-35-4	1.0	BDL
trans-1,2-Dichloroethene	156-60-5	1.0	BDL
1,2-Dichloropropane	78-87-5	1.0	BDL
cis-1,3-Dichloropropene	10061-01-5	1.0	BDL
trans-1,3-Dichloropropene	10061-02-6	1.0	BDL
Methylene Chloride	75-09-2	1.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	1.0	BDL
Tetrachloroethene	127-18-4	1.0	BDL
1,1,1-Trichloroethane	71-55-6	1.0	BDL

HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9711056M
HYDROLOGIC SAMPLE NUMBER: 9711057
SAMPLE IDENTIFICATION: MW-24
DATE SAMPLED: 5/15/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
1,1,2-Trichloroethane	79-00-5	1.0	BDL
Trichloroethene	79-01-6	1.0	BDL
Trichlorofluoromethane	75-69-4	1.0	BDL
Vinyl Chloride	75-01-4	1.0	BDL

SURROGATE RECOVERY:
BFB 81%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502.223.9251 FAX 502.875.9016 TOLL FREE 800.728.9251

HYDROLOGIC, INC.

COMPANY NAME:	BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER:	97-103
HYDROLOGIC PROJECT NUMBER:	K9711056M
HYDROLOGIC SAMPLE NUMBER:	9711057
HYDROLOGIC LAB ID #:	399
SAMPLE IDENTIFICATION:	MW-24
DATE SAMPLED:	05/15/97
DATE EXTRACTED:	N/A
DATE/TIME ANALYZED:	05/27/97

METHOD 602 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Benzene	71-43-2	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Ethylbenzene	100-41-4	1.0	BDL
Toluene	108-88-3	1.0	BDL
Xylene (Total)	1330-20-7	1.0	BDL
Surrogate Recovery:			
BFB			81%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502.223.2251 FAX: 502.875.2016 / TOLL FREE 800.728.2251

HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9711056M
HYDROLOGIC SAMPLE NUMBER: 9711057
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-24
DATE SAMPLED: 05/15/97
DATE EXTRACTED: 05/22/97
DATE/TIME ANALYZED: 05/24/97

METHOD 610 by 625

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Naphthalene	91-20-3	2.0	BDL
Acenaphthylene	208-96-8	2.0	BDL
Acenaphthene	83-32-9	2.0	BDL
Fluorene	86-73-7	2.0	BDL
Phenanthrene	85-01-8	2.0	BDL
Anthracene	120-12-7	2.0	BDL
Fluoranthene	206-44-0	2.0	BDL
Pyrene	129-00-0	2.0	BDL
Benzo(a)anthracene	56-55-3	2.0	BDL
Chrysene	218-01-9	2.0	BDL
Benzo(b)fluoranthene	205-99-2	2.0	BDL
Benzo(k)fluoranthene	207-08-9	2.0	BDL
Benzo(a)pyrene	50-32-8	2.0	BDL
Indeno(1,2,3-cd)pyrene	193-39-5	2.0	BDL
Dibenz(a,h)anthracene	53-70-3	2.0	BDL
Benzo(g,h,i)perylene	191-24-2	2.0	BDL
Surrogate Recoveries:			
p-Terphenyl			134%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502.223.9251 FAX: 502.875.8016 / TOLL FREE 800.728.2251

HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9711056M
HYDROLOGIC SAMPLE NUMBER: 9711058
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-15I
DATE SAMPLED: 05/15/97
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 05/27/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Bromodichloromethane	75-27-4	1.0	BDL
Bromoform	75-25-2	1.0	BDL
Bromomethane	74-83-9	1.0	BDL
Carbon Tetrachloride	56-23-5	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
Chloroethane	75-00-3	1.0	BDL
2-Chloro Ethyl Vinyl Ether	110-75-8	1.0	BDL
Chloroform	67-66-3	1.0	BDL
Chloromethane	74-87-3	1.0	BDL
Dibromochloromethane	124-48-1	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Dichlorodifluoromethane	75-71-8	1.0	BDL
1,1-Dichloroethane	75-34-3	1.0	BDL
1,2-Dichloroethane	107-06-2	1.0	BDL
1,1-Dichloroethene	75-35-4	1.0	BDL
trans-1,2-Dichloroethene	156-60-5	1.0	BDL
1,2-Dichloropropane	78-87-5	1.0	BDL
cis-1,3-Dichloropropene	10061-01-5	1.0	BDL
trans-1,3-Dichloropropene	10061-02-6	1.0	BDL
Methylene Chloride	75-09-2	1.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	1.0	BDL
Tetrachloroethene	127-18-4	1.0	BDL
1,1,1-Trichloroethane	71-55-6	1.0	BDL

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HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9711056M
HYDROLOGIC SAMPLE NUMBER: 9711058
SAMPLE IDENTIFICATION: MW-15I
DATE SAMPLED: 5/15/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
1,1,2-Trichloroethane	79-00-5	1.0	BDL
Trichloroethene	79-01-6	1.0	BDL
Trichlorofluoromethane	75-69-4	1.0	BDL
Vinyl Chloride	75-01-4	1.0	BDL

SURROGATE RECOVERY:
BFB 83%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

COMPANY NAME:	BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER:	97-103
HYDROLOGIC PROJECT NUMBER:	K9711056M
HYDROLOGIC SAMPLE NUMBER:	9711058
HYDROLOGIC LAB ID #:	399
SAMPLE IDENTIFICATION:	MW-15I
DATE SAMPLED:	05/15/97
DATE EXTRACTED:	N/A
DATE/TIME ANALYZED:	05/27/97

METHOD 602 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Benzene	71-43-2	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Ethylbenzene	100-41-4	1.0	BDL
Toluene	108-88-3	1.0	BDL
Xylene (Total)	1330-20-7	1.0	BDL
Surrogate Recovery:			
BFB			83%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9711056M
HYDROLOGIC SAMPLE NUMBER: 9711058
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-15I
DATE SAMPLED: 05/15/97
DATE EXTRACTED: 05/22/97
DATE/TIME ANALYZED: 05/26/97

METHOD 610 by 625

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Naphthalene	91-20-3	2.0	BDL
Acenaphthylene	208-96-8	2.0	BDL
Acenaphthene	83-32-9	2.0	BDL
Fluorene	86-73-7	2.0	BDL
Phenanthrene	85-01-8	2.0	BDL
Anthracene	120-12-7	2.0	BDL
Fluoranthene	206-44-0	2.0	BDL
Pyrene	129-00-0	2.0	BDL
Benzo(a)anthracene	56-55-3	2.0	BDL
Chrysene	218-01-9	2.0	BDL
Benzo(b)fluoranthene	205-99-2	2.0	BDL
Benzo(k)fluoranthene	207-08-9	2.0	BDL
Benzo(a)pyrene	50-32-8	2.0	BDL
Indeno(1,2,3-cd)pyrene	193-39-5	2.0	BDL
Dibenz(a,h)anthracene	53-70-3	2.0	BDL
Benzo(g,h,i)perylene	191-24-2	2.0	BDL
Surrogate Recoveries:			
p-Terphenyl			164%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9711056M
HYDROLOGIC SAMPLE NUMBER: 9711059
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-14I
DATE SAMPLED: 05/15/97
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 05/28/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Bromodichloromethane	75-27-4	1.0	BDL
Bromoform	75-25-2	1.0	BDL
Bromomethane	74-83-9	1.0	BDL
Carbon Tetrachloride	56-23-5	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
Chloroethane	75-00-3	1.0	BDL
2-Chloro Ethyl Vinyl Ether	110-75-8	1.0	BDL
Chloroform	67-66-3	1.0	BDL
Chloromethane	74-87-3	1.0	BDL
Dibromochloromethane	124-48-1	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Dichlorodifluoromethane	75-71-8	1.0	BDL
1,1-Dichloroethane	75-34-3	1.0	BDL
1,2-Dichloroethane	107-06-2	1.0	BDL
1,1-Dichloroethene	75-35-4	1.0	BDL
trans-1,2-Dichloroethene	156-60-5	1.0	BDL
1,2-Dichloropropane	78-87-5	1.0	BDL
cis-1,3-Dichloropropene	10061-01-5	1.0	BDL
trans-1,3-Dichloropropene	10061-02-6	1.0	BDL
Methylene Chloride	75-09-2	1.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	1.0	BDL
Tetrachloroethene	127-18-4	1.0	BDL
1,1,1-Trichloroethane	71-55-6	1.0	BDL

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9711056M
HYDROLOGIC SAMPLE NUMBER: 9711059
SAMPLE IDENTIFICATION: MW-14I
DATE SAMPLED: 5/15/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
1,1,2-Trichloroethane	79-00-5	1.0	BDL
Trichloroethene	79-01-6	1.0	BDL
Trichlorofluoromethane	75-69-4	1.0	BDL
Vinyl Chloride	75-01-4	1.0	BDL

SURROGATE RECOVERY:
BFB 97%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9711056M
HYDROLOGIC SAMPLE NUMBER: 9711059
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-14I
DATE SAMPLED: 05/15/97
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 05/28/97

METHOD 602 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Benzene	71-43-2	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Ethylbenzene	100-41-4	1.0	BDL
Toluene	108-88-3	1.0	BDL
Xylene (Total)	1330-20-7	1.0	BDL
Surrogate Recovery:			
BFB			97%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9711056M
HYDROLOGIC SAMPLE NUMBER: 9711059
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-14I
DATE SAMPLED: 05/15/97
DATE EXTRACTED: 05/22/97
DATE/TIME ANALYZED: 05/26/97

METHOD 610 by 625

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Naphthalene	91-20-3	2.0	BDL
Acenaphthylene	208-96-8	2.0	BDL
Acenaphthene	83-32-9	2.0	BDL
Fluorene	86-73-7	2.0	BDL
Phenanthrene	85-01-8	2.0	BDL
Anthracene	120-12-7	2.0	BDL
Fluoranthene	206-44-0	2.0	BDL
Pyrene	129-00-0	2.0	BDL
Benzo(a)anthracene	56-55-3	2.0	BDL
Chrysene	218-01-9	2.0	BDL
Benzo(b)fluoranthene	205-99-2	2.0	BDL
Benzo(k)fluoranthene	207-08-9	2.0	BDL
Benzo(a)pyrene	50-32-8	2.0	BDL
Indeno(1,2,3-cd)pyrene	193-39-5	2.0	BDL
Dibenz(a,h)anthracene	53-70-3	2.0	BDL
Benzo(g,h,i)perylene	191-24-2	2.0	BDL
Surrogate Recoveries:			
p-Terphenyl			112%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9711056M
HYDROLOGIC SAMPLE NUMBER: 9711060
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-14S
DATE SAMPLED: 05/15/97
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 05/28/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Bromodichloromethane	75-27-4	1.0	BDL
Bromoform	75-25-2	1.0	BDL
Bromomethane	74-83-9	1.0	BDL
Carbon Tetrachloride	56-23-5	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
Chloroethane	75-00-3	1.0	BDL
2-Chloro Ethyl Vinyl Ether	110-75-8	1.0	BDL
Chloroform	67-66-3	1.0	BDL
Chloromethane	74-87-3	1.0	BDL
Dibromochloromethane	124-48-1	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Dichlorodifluoromethane	75-71-8	1.0	BDL
1,1-Dichloroethane	75-34-3	1.0	BDL
1,2-Dichloroethane	107-06-2	1.0	BDL
1,1-Dichloroethene	75-35-4	1.0	BDL
trans-1,2-Dichloroethene	156-60-5	1.0	BDL
1,2-Dichloropropane	78-87-5	1.0	BDL
cis-1,3-Dichloropropene	10061-01-5	1.0	BDL
trans-1,3-Dichloropropene	10061-02-6	1.0	BDL
Methylene Chloride	75-09-2	1.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	1.0	BDL
Tetrachloroethene	127-18-4	1.0	BDL
1,1,1-Trichloroethane	71-55-6	1.0	BDL

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9711056M
HYDROLOGIC SAMPLE NUMBER: 9711060
SAMPLE IDENTIFICATION: MW-14S
DATE SAMPLED: 5/15/97

METHOD 601 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
1,1,2-Trichloroethane	79-00-5	1.0	BDL
Trichloroethene	79-01-6	1.0	BDL
Trichlorofluoromethane	75-69-4	1.0	BDL
Vinyl Chloride	75-01-4	1.0	BDL

SURROGATE RECOVERY:
BFB 99%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9711056M
HYDROLOGIC SAMPLE NUMBER: 9711060
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-14S
DATE SAMPLED: 05/15/97
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 05/28/97

METHOD 602 (GC-MS CONFIRMED)

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Benzene	71-43-2	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Ethylbenzene	100-41-4	1.0	BDL
Toluene	108-88-3	1.0	BDL
Xylene (Total)	1330-20-7	1.0	BDL
Surrogate Recovery:			
BFB			99%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

COMPANY NAME: BENCHMARK CAROLINAS
COMPANY PROJECT NUMBER: 97-103

HYDROLOGIC PROJECT NUMBER: K9711056M
HYDROLOGIC SAMPLE NUMBER: 9711060
HYDROLOGIC LAB ID #: 399
SAMPLE IDENTIFICATION: MW-14S
DATE SAMPLED: 05/15/97
DATE EXTRACTED: 05/22/97
DATE/TIME ANALYZED: 05/26/97

METHOD 610 by 625

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Naphthalene	**91-20-3**	**2.0**	**15.9**
Acenaphthylene	208-96-8	2.0	BDL
Acenaphthene	**83-32-9**	**2.0**	**3.41**
Fluorene	**86-73-7**	**2.0**	**2.40**
Phenanthrene	85-01-8	2.0	BDL
Anthracene	120-12-7	2.0	BDL
Fluoranthene	206-44-0	2.0	BDL
Pyrene	129-00-0	2.0	BDL
Benzo(a)anthracene	56-55-3	2.0	BDL
Chrysene	218-01-9	2.0	BDL
Benzo(b)fluoranthene	205-99-2	2.0	BDL
Benzo(k)fluoranthene	207-08-9	2.0	BDL
Benzo(a)pyrene	50-32-8	2.0	BDL
Indeno(1,2,3-cd)pyrene	193-39-5	2.0	BDL
Dibenz(a,h)anthracene	53-70-3	2.0	BDL
Benzo(g,h,i)perylene	191-24-2	2.0	BDL
Surrogate Recoveries:			
p-Terphenyl			128%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

Chain of Custody Record

☐ 122 Lyman Street, Asheville, NC 28801, (704)254-5169, FAX (704) 252-9711
☐ 1412 Oakbrook Drive #105, Norcross, Georgia 30093, (770) 368-0636, FAX (770) 368-0806
☐ 1491 Twilight Trail, Frankfort, KY 40601, (502) 223-0251, FAX (502) 875-8016
☐ 2003 North Pine Street, Lumberton, NC 28358, (910) 738-6190, FAX (910) 671-8837
☐ I-85 S Bldg. 2848, Charlotte, NC 28208, (704) 392-1164, FAX (704) 392-9073
☐ 2500 Gateway Centre, Morrisville, NC 27560, (919) 380-9699, FAX (919) 380-9717
☐ 4875 Riverside Drive, Macon, GA 31210, (912) 757-0811, FAX (912) 757-0149
☐ 695 N Seventh Ave, Brighton, CO. 80601, (303) 659-0497, FAX (303) 659-5064

Client: BENCHMARK CAROLINAS
Project No.: 97-103
Report Address: 7620 MINE VALLEY RD, RALEIGH, NC 27615
Invoice Address: PO BOX, RTP, NC
Attn: CHRIS REINHARDT
Attn: STEVE EDGERTON
Phone No.: 919-870-9129
Sampled By: RLR
Fax No.:
P.O. No:
State Samples Collected: NC

TURNAROUND TIME
☐ 24 Hours ☐ 48 Hours
☐ 5 Days ☐ 10 Days Date Needed:

REQUESTED PARAMETERS

97-0978

601 | 602 | 610

R9711056 (M)

LAB CODE I.D.
Asheville, NC
Charlotte, NC
Denver, CO
Macon, GA
Frankfort, KY
Lumberton, NC
M = Morrisville, NC
N = Norcross
S = Subcontracted

Sample ID	Date	Time	Comp/ Grab	Matrix	Containers	601	602									← Preserv.	REMARKS
MW-23	5/15/97	1630	G	H_2O	3	✓	✓										
MW-24		1635				✓	✓										
MW-15I		1645				✓	✓										
MW-14I		1650				✓	✓										
MW-14S		1700				✓	✓										
Lab Use Only		Custody Seal: ☐Yes ☐No ☐N/A				K	K									recd on ice Init Lab Temp.	recd on ice Rec. Lab Temp

COMMENTS:

299 7813 287

Relinquished By:	Date	Time	Received By:	Date	Time	Lab Use Only:
[signature]	5/16/97	1220	[signature]	5/16/97	1220	
[signature]	5/16/97	1800	[signature]	5/17/97	10	
Relinquished By:	Date	Time	Received By:	Date	Time	
Relinquished By:	Date	Time	Received By:	Date	Time	

Sample Cross Reference Table

Company Name: HydroLogic-Morrisville

HydroLogic Login Number: L4890

HydroLogic Sample Number	Client Sample Identification	Sample Date/Time
L4890-1	MW-1	20 May 97 16:10
L4890-2	MW-7	20 May 97 16:00
L4890-3	MW-13	20 May 97 16:45
L4890-4	MW-20D	20 May 97 17:00

DATE AND TIME SUMMARY

Company Name: HydroLogic-Morrisville
Project: 97-1013

HydroLogic Login Number: L4890

METHOD	COLLECTED	PREPARED	ANALYZED
SAMPLE NUMBER: L4890-1	**CLIENT ID:** MW-1		**MATRIX:** Aqueous
SW8260-MED	05/20/97 16:10	05/30/97	05/30/97 16:57
EPA 625	05/20/97 16:10	06/02/97	05/28/97 20:34
SAMPLE NUMBER: L4890-2	**CLIENT ID:** MW-7		**MATRIX:** Aqueous
SW8260-MED	05/20/97 16:00	05/30/97	05/30/97 17:38
EPA 625	05/20/97 16:00	06/02/97	05/28/97 21:20
SAMPLE NUMBER: L4890-3	**CLIENT ID:** MW-13		**MATRIX:** Aqueous
SW8260-MED	05/20/97 16:45	05/30/97	05/30/97 18:19
EPA 625	05/20/97 16:45	06/02/97	05/28/97 22:06
SAMPLE NUMBER: L4890-4	**CLIENT ID:** MW-20D		**MATRIX:** Aqueous
SW8260-MED	05/20/97 17:00	05/30/97	05/30/97 19:00
EPA 625	05/20/97 17:00	06/02/97	05/28/97 22:52

Chain of Custody Record

HYDROLOGIC, INC.

☐ 122 Lyman Street, Asheville, NC 28801, (704)254-5169, FAX (704) 252-9711
☐ 1412 Oakbrook Drive #105, Norcross, Georgia 30093, (770) 368-0636, FAX (770) 368-0806
☐ 1491 Twilight Trail, Frankfort, KY 40601, (502) 223-0251, FAX (502) 875-8016
☐ 2003 North Pine Street, Lumberton, NC 28358, (910) 738-6190, FAX (910) 671-8837
☐ I-85 S Bldg. 2848, Charlotte, NC 28208, (704) 392-1164, FAX (704) 392-9073
☒ 2500 Gateway Centre, Morrisville, NC 27560, (919) 380-9699, FAX (919) 380-9717
☐ 4875 Riverside Drive, Macon, GA 31210, (912) 757-0811, FAX (912) 757-0149
☐ 695 N Seventh Ave, Brighton, CO. 80601, (303) 659-0497, FAX (303) 659-5064

Client: BENCHMARK CAROLINAS
Project No.: 97-103
Report Address: 7620 MINE VALLEY RD
Invoice Address: PO BOX 13983
RALEIGH, NC 27615
RTP, NC 27709
Attn: CHRIS REINHARDT
Attn: STEVE EDGERTON
Phone No.: 919-870-9129
Sampled By: RCR
Fax No.:
P.O. No:
State Samples Collected

TURNAROUND TIME
☐ 24 Hours ☐ 48 Hours
☐ 5 Days ☐ 10 Days
Date Needed: STD.

REC 97-1013

LAB CODE I.D.
Asheville, NC
Charlotte, NC
Denver, CO
Macon, GA
Frankfort, KY
L = Lumberton, NC
M = Morrisville, NC
N = Norcross
S = Subcontracted

Sample ID	Date	Time	Comp/ Grab	Matrix	Containers	601	602	610								← Preserv.	REMARKS
MW-1	5/20/97	1610	GRAB	H_2O	4	X	X										SAMPLES COLLECTED
MW-7		1600				X	X										AT TEER QUARRY
MW-13		1645				X	X										DURHAM NC
MW-20D		1700				X	X										
Lab Use Only	Custody Seal: ☐Yes ☐No ☐N/A					D	D									recd on ice Init Lab Temp.	Rec. Lab Temp

COMMENTS:

Relinquished By:	Date	Time	Received By:	Date	Time
[signature]	5/21/97	1500	[signature]	5/21/97	1500
[signature]	5/21/97	1800	[signature]	5/22/97	1000

Lab Use Only:

FINAL

RESULTS

Form 1 - Data Summary Report
Prepared By: HydroLogic Laboratories, Inc.

Client ID:	MW-1
Project Number:	97-1013
Sample ID:	L4890-1
Site / Project ID:	BENCHMARK CAROLINAS
Run ID:	R7215
Collection Date:	20-MAY-97
Received Date:	22-MAY-97
Report Date:	02-JUN-97

Analyte	CAS No.	Dil	Sample Conc.	Units	RL
SW846 Method 8260 (5 ml)					
Preparation Date: 30-MAY-97					
Analysis Date: 30-MAY-97 16:57					
Workgroup Number: WG11143					
Benzene	71-43-2	1	ND	ug/L	5
Bromobenzene	108-86-1	1	ND	ug/L	5
Bromochloromethane	74-97-5	1	ND	ug/L	5
Bromodichloromethane	75-27-4	1	ND	ug/L	5
Bromoform	75-25-2	1	ND	ug/L	5
Bromomethane	74-83-9	1	ND	ug/L	10
tert-Butylbenzene	98-06-6	1	ND	ug/L	10
sec-Butylbenzene	135-98-8	1	ND	ug/L	10
n-Butylbenzene	104-51-8	1	ND	ug/L	10
Carbon tetrachloride	56-23-5	1	ND	ug/L	5
Chlorobenzene	108-90-7	1	ND	ug/L	5
Chloroethane	75-00-3	1	ND	ug/L	10
Chloroform	67-66-3	1	ND	ug/L	5
Chloromethane	74-87-3	1	ND	ug/L	10
2-Chlorotoluene	95-49-8	1	ND	ug/L	10
4-Chlorotoluene	106-43-4	1	ND	ug/L	10
1,2-Dibromo-3-chloropropane	96-12-8	1	ND	ug/L	100
Dibromochloromethane	124-48-1	1	ND	ug/L	5
1,2-Dibromoethane	106-93-4	1	ND	ug/L	5
Dibromomethane	74-95-3	1	ND	ug/L	5
1,3-Dichlorobenzene	541-73-1	1	ND	ug/L	10
1,4-Dichlorobenzene	106-46-7	1	ND	ug/L	10
1,2-Dichlorobenzene	95-50-1	1	ND	ug/L	10
Dichlorodifluoromethane	75-71-8	1	ND	ug/L	10
1,1-Dichloroethane	75-34-3	1	ND	ug/L	5
1,2-Dichloroethane	107-06-2	1	ND	ug/L	5
1,1-Dichloroethene	75-35-4	1	ND	ug/L	5
trans-1,2-Dichloroethene	156-60-5	1	ND	ug/L	5
cis-1,2-Dichloroethene	156-59-2	1	ND	ug/L	5
2,2-Dichloropropane	590-20-7	1	ND	ug/L	5
1,2-Dichloropropane	78-87-5	1	ND	ug/L	5
1,3-Dichloropropane	142-28-9	1	ND	ug/L	5
1,1-Dichloropropene	563-58-6	1	ND	ug/L	5
cis-1,3-Dichloropropene	10061-01-5	1	ND	ug/L	5
trans-1,3-Dichloropropene	10061-02-6	1	ND	ug/L	5
Ethylbenzene	100-41-4	1	ND	ug/L	5

Review By: Bob Cathel Report Approved By: Karen Kuoppala

"Dil" - Sample Dilution Factor
"ND" - Sample Concentration Not Detected above RL
"RL" - Method Report Limit

Form 1 - Data Summary Report
Prepared By: HydroLogic Laboratories, Inc.

Client ID:	MW-1
Project Number:	97-1013
Sample ID:	L4890-1
Site / Project ID:	BENCHMARK CAROLINAS
Run ID:	R7215
Collection Date:	20-MAY-97
Received Date:	22-MAY-97
Report Date:	02-JUN-97

Analyte	CAS No.	Dil	Sample Conc.	Units	RL
Hexachlorobutadiene	87-68-3	1	ND	ug/L	10
Isopropylbenzene	98-82-8	1	ND	ug/L	10
p-Isopropyltoluene	99-87-6	1	ND	ug/L	10
Methylene chloride	75-09-2	1	ND	ug/L	5
Naphthalene	91-20-3	1	ND	ug/L	10
n-Propylbenzene	103-65-1	1	ND	ug/L	10
Styrene	100-42-5	1	ND	ug/L	5
1,1,1,2-Tetrachloroethane	630-20-6	1	ND	ug/L	5
1,1,2,2-Tetrachloroethane	79-34-5	1	ND	ug/L	5
Tetrachloroethene	127-18-4	1	ND	ug/L	5
Toluene	108-88-3	1	ND	ug/L	5
1,2,4-Trichlorobenzene	120-82-1	1	ND	ug/L	10
1,2,3-Trichlorobenzene	87-61-6	1	ND	ug/L	10
1,1,1-Trichloroethane	71-55-6	1	ND	ug/L	5
1,1,2-Trichloroethane	79-00-5	1	ND	ug/L	5
Trichloroethene	79-01-6	1	ND	ug/L	5
Trichlorofluoromethane	75-69-4	1	ND	ug/L	5
1,2,3-Trichloropropane	96-18-4	1	ND	ug/L	5
1,3,5-Trimethylbenzene	108-67-8	1	ND	ug/L	10
1,2,4-Trimethylbenzene	95-63-6	1	ND	ug/L	10
Vinyl chloride	75-01-4	1	ND	ug/L	2
(m+p)-Xylene	NA	1	ND	ug/L	5
o-Xylene	95-47-6	1	ND	ug/L	5
Dibromofluoromethane	SURROGATE	1	112	%	
Toluene-d8	SURROGATE	1	97	%	
4-Bromofluorobenzene	SURROGATE	1	87	%	

Review By: Bob Cathel Report Approved By: Karen Kuoppala

"Dil" - Sample Dilution Factor
"ND" - Sample Concentration Not Detected above RL
"RL" - Method Report Limit

Form 1 - Data Summary Report
Prepared By: HydroLogic Laboratories, Inc.

Client ID:	MW-1
Project Number:	97-1013
Sample ID:	L4890-1
Site / Project ID:	BENCHMARK CAROLINAS
Run ID:	R7215
Collection Date:	20-MAY-97
Received Date:	22-MAY-97
Report Date:	02-JUN-97

Analyte	CAS No.	Dil	Sample Conc.	Units	RL
EPA Method 625					
Preparation Date: 02-JUN-97					
Analysis Date: 28-MAY-97 20:34					
Workgroup Number: WG11068					
Acenaphthene	83-32-9	1	ND	ug/L	5
Acenaphthylene	208-96-8	1	ND	ug/L	5
Anthracene	120-12-7	1	ND	ug/L	5
Benz(a)anthracene	56-55-3	1	ND	ug/L	5
Benzo(b)fluoranthene	205-99-2	1	ND	ug/L	5
Benzo(k)fluoranthene	207-08-9	1	ND	ug/L	5
Benzo(a)pyrene	50-32-8	1	ND	ug/L	5
Benzo(g,h,i)perylene	191-24-2	1	ND	ug/L	5
Chrysene	218-01-9	1	ND	ug/L	5
Dibenzofuran	132-64-9	1	ND	ug/L	5
Dibenz(a,h)anthracene	53-70-3	1	ND	ug/L	5
Dibenz(a,j)acridine	224-42-0	1	ND	ug/L	25
Fluoranthene	206-44-0	1	ND	ug/L	5
Fluorene	86-73-7	1	ND	ug/L	5
Indeno(1,2,3-cd)pyrene	193-39-5	1	ND	ug/L	5
2-Methylnaphthalene	91-57-6	1	ND	ug/L	5
Naphthalene	91-20-3	1	ND	ug/L	5
Phenanthrene	85-01-8	1	ND	ug/L	5
Pyrene	129-00-0	1	ND	ug/L	5
Nitrobenzene-d5	SURROGATE	1	72	%	
2-Fluorobiphenyl	SURROGATE	1	72	%	
p-Terphenyl-d14	SURROGATE	1	44	%	

Review By: Bob Cathel Report Approved By: Karen Kuoppala

"Dil" - Sample Dilution Factor
"ND" - Sample Concentration Not Detected above RL
"RL" - Method Report Limit

Form 1 - Data Summary Report
Prepared By: HydroLogic Laboratories, Inc.

Client ID: MW-7
Project Number: 97-1013
Sample ID: L4890-2
Site / Project ID: BENCHMARK CAROLINAS
Run ID: R7215
Collection Date: 20-MAY-97
Received Date: 22-MAY-97
Report Date: 02-JUN-97

Analyte	CAS No.	Dil	Sample Conc.	Units	RL
SW846 Method 8260 (5 ml)					
Preparation Date: 30-MAY-97					
Analysis Date: 30-MAY-97 17:38					
Workgroup Number: WG11143					
Benzene	71-43-2	1	ND	ug/L	5
Bromobenzene	108-86-1	1	ND	ug/L	5
Bromochloromethane	74-97-5	1	ND	ug/L	5
Bromodichloromethane	75-27-4	1	ND	ug/L	5
Bromoform	75-25-2	1	ND	ug/L	5
Bromomethane	74-83-9	1	ND	ug/L	10
tert-Butylbenzene	98-06-6	1	ND	ug/L	10
sec-Butylbenzene	135-98-8	1	ND	ug/L	10
n-Butylbenzene	104-51-8	1	ND	ug/L	10
Carbon tetrachloride	56-23-5	1	ND	ug/L	5
Chlorobenzene	108-90-7	1	ND	ug/L	5
Chloroethane	75-00-3	1	ND	ug/L	10
Chloroform	67-66-3	1	ND	ug/L	5
Chloromethane	74-87-3	1	ND	ug/L	10
2-Chlorotoluene	95-49-8	1	ND	ug/L	10
4-Chlorotoluene	106-43-4	1	ND	ug/L	10
1,2-Dibromo-3-chloropropane	96-12-8	1	ND	ug/L	100
Dibromochloromethane	124-48-1	1	ND	ug/L	5
1,2-Dibromoethane	106-93-4	1	ND	ug/L	5
Dibromomethane	74-95-3	1	ND	ug/L	5
1,3-Dichlorobenzene	541-73-1	1	ND	ug/L	10
1,4-Dichlorobenzene	106-46-7	1	ND	ug/L	10
1,2-Dichlorobenzene	95-50-1	1	ND	ug/L	10
Dichlorodifluoromethane	75-71-8	1	ND	ug/L	10
1,1-Dichloroethane	75-34-3	1	ND	ug/L	5
1,2-Dichloroethane	107-06-2	1	ND	ug/L	5
1,1-Dichloroethene	75-35-4	1	ND	ug/L	5
trans-1,2-Dichloroethene	156-60-5	1	ND	ug/L	5
cis-1,2-Dichloroethene	156-59-2	1	ND	ug/L	5
2,2-Dichloropropane	590-20-7	1	ND	ug/L	5
1,2-Dichloropropane	78-87-5	1	ND	ug/L	5
1,3-Dichloropropane	142-28-9	1	ND	ug/L	5
1,1-Dichloropropene	563-58-6	1	ND	ug/L	5
cis-1,3-Dichloropropene	10061-01-5	1	ND	ug/L	5
trans-1,3-Dichloropropene	10061-02-6	1	ND	ug/L	5
Ethylbenzene	100-41-4	1	ND	ug/L	5

Review By: Bob Cathel Report Approved By: Karen Kuoppala

"Dil" - Sample Dilution Factor
"ND" - Sample Concentration Not Detected above RL
"RL" - Method Report Limit

Form 1 - Data Summary Report
Prepared By: HydroLogic Laboratories, Inc.

Client ID: MW-7
Project Number: 97-1013
Sample ID: L4890-2
Site / Project ID: BENCHMARK CAROLINAS
Run ID: R7215
Collection Date: 20-MAY-97
Received Date: 22-MAY-97
Report Date: 02-JUN-97

Analyte	CAS No.	Dil	Sample Conc.	Units	RL
Hexachlorobutadiene	87-68-3	1	ND	ug/L	10
Isopropylbenzene	98-82-8	1	ND	ug/L	10
p-Isopropyltoluene	99-87-6	1	ND	ug/L	10
Methylene chloride	75-09-2	1	ND	ug/L	5
Naphthalene	91-20-3	1	ND	ug/L	10
n-Propylbenzene	103-65-1	1	ND	ug/L	10
Styrene	100-42-5	1	ND	ug/L	5
1,1,1,2-Tetrachloroethane	630-20-6	1	ND	ug/L	5
1,1,2,2-Tetrachloroethane	79-34-5	1	ND	ug/L	5
Tetrachloroethene	127-18-4	1	ND	ug/L	5
Toluene	108-88-3	1	ND	ug/L	5
1,2,4-Trichlorobenzene	120-82-1	1	ND	ug/L	10
1,2,3-Trichlorobenzene	87-61-6	1	ND	ug/L	10
1,1,1-Trichloroethane	71-55-6	1	ND	ug/L	5
1,1,2-Trichloroethane	79-00-5	1	ND	ug/L	5
Trichloroethene	79-01-6	1	ND	ug/L	5
Trichlorofluoromethane	75-69-4	1	ND	ug/L	5
1,2,3-Trichloropropane	96-18-4	1	ND	ug/L	5
1,3,5-Trimethylbenzene	108-67-8	1	ND	ug/L	10
1,2,4-Trimethylbenzene	95-63-6	1	ND	ug/L	10
Vinyl chloride	75-01-4	1	ND	ug/L	2
(m+p)-Xylene	NA	1	ND	ug/L	5
o-Xylene	95-47-6	1	ND	ug/L	5
Dibromofluoromethane	SURROGATE	1	114	%	
Toluene-d8	SURROGATE	1	97	%	
4-Bromofluorobenzene	SURROGATE	1	91	%	

Review By: Bob Cathel

Report Approved By: Karen Kuoppala

"Dil" - Sample Dilution Factor
"ND" - Sample Concentration Not Detected above RL
"RL" - Method Report Limit

Form 1 - Data Summary Report
Prepared By: HydroLogic Laboratories, Inc.

Client ID:	MW-7
Project Number:	97-1013
Sample ID:	L4890-2
Site / Project ID:	BENCHMARK CAROLINAS
Run ID:	R7215
Collection Date:	20-MAY-97
Received Date:	22-MAY-97
Report Date:	02-JUN-97

Analyte	CAS No.	Dil	Sample Conc.	Units	RL
EPA Method 625					
Preparation Date: 02-JUN-97					
Analysis Date: 28-MAY-97 21:20					
Workgroup Number: WG11068					
Acenaphthene	83-32-9	1	ND	ug/L	5
Acenaphthylene	208-96-8	1	ND	ug/L	5
Anthracene	120-12-7	1	ND	ug/L	5
Benz(a)anthracene	56-55-3	1	ND	ug/L	5
Benzo(b)fluoranthene	205-99-2	1	ND	ug/L	5
Benzo(k)fluoranthene	207-08-9	1	ND	ug/L	5
Benzo(a)pyrene	50-32-8	1	ND	ug/L	5
Benzo(g,h,i)perylene	191-24-2	1	ND	ug/L	5
Chrysene	218-01-9	1	ND	ug/L	5
Dibenzofuran	132-64-9	1	ND	ug/L	5
Dibenz(a,h)anthracene	53-70-3	1	ND	ug/L	5
Dibenz(a,j)acridine	224-42-0	1	ND	ug/L	25
Fluoranthene	206-44-0	1	ND	ug/L	5
Fluorene	86-73-7	1	ND	ug/L	5
Indeno(1,2,3-cd)pyrene	193-39-5	1	ND	ug/L	5
2-Methylnaphthalene	91-57-6	1	ND	ug/L	5
Naphthalene	91-20-3	1	ND	ug/L	5
Phenanthrene	85-01-8	1	ND	ug/L	5
Pyrene	129-00-0	1	ND	ug/L	5
Nitrobenzene-d5	SURROGATE	1	78	%	
2-Fluorobiphenyl	SURROGATE	1	80	%	
p-Terphenyl-d14	SURROGATE	1	36	%	

Review By: Bob Cathel Report Approved By: Karen Kuoppala

"Dil" - Sample Dilution Factor
"ND" - Sample Concentration Not Detected above RL
"RL" - Method Report Limit

Form 1 - Data Summary Report
Prepared By: HydroLogic Laboratories, Inc.

Client ID: MW-13
Project Number: 97-1013
Sample ID: L4890-3
Site / Project ID: BENCHMARK CAROLINAS
Run ID: R7215
Collection Date: 20-MAY-97
Received Date: 22-MAY-97
Report Date: 02-JUN-97

SW846 Method 8260 (5 ml)
Preparation Date: 30-MAY-97
Analysis Date: 30-MAY-97 18:19
Workgroup Number: WG11143

Analyte	CAS No.	Dil	Sample Conc.	Units	RL
Benzene	71-43-2	1	ND	ug/L	5
Bromobenzene	108-86-1	1	ND	ug/L	5
Bromochloromethane	74-97-5	1	ND	ug/L	5
Bromodichloromethane	75-27-4	1	ND	ug/L	5
Bromoform	75-25-2	1	ND	ug/L	5
Bromomethane	74-83-9	1	ND	ug/L	10
tert-Butylbenzene	98-06-6	1	ND	ug/L	10
sec-Butylbenzene	135-98-8	1	ND	ug/L	10
n-Butylbenzene	104-51-8	1	ND	ug/L	10
Carbon tetrachloride	56-23-5	1	ND	ug/L	5
Chlorobenzene	108-90-7	1	ND	ug/L	5
Chloroethane	75-00-3	1	ND	ug/L	10
Chloroform	67-66-3	1	ND	ug/L	5
Chloromethane	74-87-3	1	ND	ug/L	10
2-Chlorotoluene	95-49-8	1	ND	ug/L	10
4-Chlorotoluene	106-43-4	1	ND	ug/L	10
1,2-Dibromo-3-chloropropane	96-12-8	1	ND	ug/L	100
Dibromochloromethane	124-48-1	1	ND	ug/L	5
1,2-Dibromoethane	106-93-4	1	ND	ug/L	5
Dibromomethane	74-95-3	1	ND	ug/L	5
1,3-Dichlorobenzene	541-73-1	1	ND	ug/L	10
1,4-Dichlorobenzene	106-46-7	1	ND	ug/L	10
1,2-Dichlorobenzene	95-50-1	1	ND	ug/L	10
Dichlorodifluoromethane	75-71-8	1	ND	ug/L	10
1,1-Dichloroethane	75-34-3	1	ND	ug/L	5
1,2-Dichloroethane	107-06-2	1	ND	ug/L	5
1,1-Dichloroethene	75-35-4	1	ND	ug/L	5
trans-1,2-Dichloroethene	156-60-5	1	ND	ug/L	5
cis-1,2-Dichloroethene	156-59-2	1	ND	ug/L	5
2,2-Dichloropropane	590-20-7	1	ND	ug/L	5
1,2-Dichloropropane	78-87-5	1	ND	ug/L	5
1,3-Dichloropropane	142-28-9	1	ND	ug/L	5
1,1-Dichloropropene	563-58-6	1	ND	ug/L	5
cis-1,3-Dichloropropene	10061-01-5	1	ND	ug/L	5
trans-1,3-Dichloropropene	10061-02-6	1	ND	ug/L	5
Ethylbenzene	100-41-4	1	ND	ug/L	5

Review By: Bob Cathel Report Approved By: Karen Kuoppala

"Dil" - Sample Dilution Factor
"ND" - Sample Concentration Not Detected above RL
"RL" - Method Report Limit

Form 1 - Data Summary Report
Prepared By: HydroLogic Laboratories, Inc.

Client ID: MW-13
Project Number: 97-1013
Sample ID: L4890-3
Site / Project ID: BENCHMARK CAROLINAS
Run ID: R7215
Collection Date: 20-MAY-97
Received Date: 22-MAY-97
Report Date: 02-JUN-97

Analyte	CAS No.	Dil	Sample Conc.	Units	RL
Hexachlorobutadiene	87-68-3	1	ND	ug/L	10
Isopropylbenzene	98-82-8	1	ND	ug/L	10
p-Isopropyltoluene	99-87-6	1	ND	ug/L	10
Methylene chloride	75-09-2	1	ND	ug/L	5
Naphthalene	91-20-3	1	ND	ug/L	10
n-Propylbenzene	103-65-1	1	ND	ug/L	10
Styrene	100-42-5	1	ND	ug/L	5
1,1,1,2-Tetrachloroethane	630-20-6	1	ND	ug/L	5
1,1,2,2-Tetrachloroethane	79-34-5	1	ND	ug/L	5
Tetrachloroethene	127-18-4	1	ND	ug/L	5
Toluene	108-88-3	1	ND	ug/L	5
1,2,4-Trichlorobenzene	120-82-1	1	ND	ug/L	10
1,2,3-Trichlorobenzene	87-61-6	1	ND	ug/L	10
1,1,1-Trichloroethane	71-55-6	1	ND	ug/L	5
1,1,2-Trichloroethane	79-00-5	1	ND	ug/L	5
Trichloroethene	79-01-6	1	ND	ug/L	5
Trichlorofluoromethane	75-69-4	1	ND	ug/L	5
1,2,3-Trichloropropane	96-18-4	1	ND	ug/L	5
1,3,5-Trimethylbenzene	108-67-8	1	ND	ug/L	10
1,2,4-Trimethylbenzene	95-63-6	1	ND	ug/L	10
Vinyl chloride	75-01-4	1	ND	ug/L	2
(m+p)-Xylene	NA	1	ND	ug/L	5
o-Xylene	95-47-6	1	ND	ug/L	5
Dibromofluoromethane	SURROGATE	1	114	%	
Toluene-d8	SURROGATE	1	95	%	
4-Bromofluorobenzene	SURROGATE	1	92	%	

Review By: Bob Cathel Report Approved By: Karen Kuoppala

"Dil" - Sample Dilution Factor
"ND" - Sample Concentration Not Detected above RL
"RL" - Method Report Limit

Form 1 - Data Summary Report
Prepared By: HydroLogic Laboratories, Inc.

Client ID:	MW-13
Project Number:	97-1013
Sample ID:	L4890-3
Site / Project ID:	BENCHMARK CAROLINAS
Run ID:	R7215
Collection Date:	20-MAY-97
Received Date:	22-MAY-97
Report Date:	02-JUN-97

Analyte	CAS No.	Dil	Sample Conc.	Units	RL
EPA Method 625					
Preparation Date: 02-JUN-97					
Analysis Date: 28-MAY-97 22:06					
Workgroup Number: WG11068					
Acenaphthene	83-32-9	1	ND	ug/L	5
Acenaphthylene	208-96-8	1	ND	ug/L	5
Anthracene	120-12-7	1	ND	ug/L	5
Benz(a)anthracene	56-55-3	1	ND	ug/L	5
Benzo(b)fluoranthene	205-99-2	1	ND	ug/L	5
Benzo(k)fluoranthene	207-08-9	1	ND	ug/L	5
Benzo(a)pyrene	50-32-8	1	ND	ug/L	5
Benzo(g,h,i)perylene	191-24-2	1	ND	ug/L	5
Chrysene	218-01-9	1	ND	ug/L	5
Dibenzofuran	132-64-9	1	ND	ug/L	5
Dibenz(a,h)anthracene	53-70-3	1	ND	ug/L	5
Dibenz(a,j)acridine	224-42-0	1	ND	ug/L	25
Fluoranthene	206-44-0	1	ND	ug/L	5
Fluorene	86-73-7	1	ND	ug/L	5
Indeno(1,2,3-cd)pyrene	193-39-5	1	ND	ug/L	5
2-Methylnaphthalene	91-57-6	1	ND	ug/L	5
Naphthalene	91-20-3	1	ND	ug/L	5
Phenanthrene	85-01-8	1	ND	ug/L	5
Pyrene	129-00-0	1	ND	ug/L	5
Nitrobenzene-d5	SURROGATE	1	68	%	
2-Fluorobiphenyl	SURROGATE	1	68	%	
p-Terphenyl-d14	SURROGATE	1	36	%	

Review By: Bob Cathel Report Approved By: Karen Kuoppala

"Dil" - Sample Dilution Factor
"ND" - Sample Concentration Not Detected above RL
"RL" - Method Report Limit

Form 1 - Data Summary Report
Prepared By: HydroLogic Laboratories, Inc.

Client ID: MW-20D
Project Number: 97-1013
Sample ID: L4890-4
Site / Project ID: BENCHMARK CAROLINAS
Run ID: R7215
Collection Date: 20-MAY-97
Received Date: 22-MAY-97
Report Date: 02-JUN-97

SW846 Method 8260 (5 ml)
Preparation Date: 30-MAY-97
Analysis Date: 30-MAY-97 19:00
Workgroup Number: WG11143

Analyte	CAS No.	Dil	Sample Conc.	Units	RL
Benzene	71-43-2	1	17	ug/L	5
Bromobenzene	108-86-1	1	ND	ug/L	5
Bromochloromethane	74-97-5	1	ND	ug/L	5
Bromodichloromethane	75-27-4	1	ND	ug/L	5
Bromoform	75-25-2	1	ND	ug/L	5
Bromomethane	74-83-9	1	ND	ug/L	10
tert-Butylbenzene	98-06-6	1	ND	ug/L	10
sec-Butylbenzene	135-98-8	1	ND	ug/L	10
n-Butylbenzene	104-51-8	1	ND	ug/L	10
Carbon tetrachloride	56-23-5	1	ND	ug/L	5
Chlorobenzene	108-90-7	1	ND	ug/L	5
Chloroethane	75-00-3	1	ND	ug/L	10
Chloroform	67-66-3	1	ND	ug/L	5
Chloromethane	74-87-3	1	ND	ug/L	10
2-Chlorotoluene	95-49-8	1	ND	ug/L	10
4-Chlorotoluene	106-43-4	1	ND	ug/L	10
1,2-Dibromo-3-chloropropane	96-12-8	1	ND	ug/L	100
Dibromochloromethane	124-48-1	1	ND	ug/L	5
1,2-Dibromoethane	106-93-4	1	ND	ug/L	5
Dibromomethane	74-95-3	1	ND	ug/L	5
1,3-Dichlorobenzene	541-73-1	1	ND	ug/L	10
1,4-Dichlorobenzene	106-46-7	1	ND	ug/L	10
1,2-Dichlorobenzene	95-50-1	1	ND	ug/L	10
Dichlorodifluoromethane	75-71-8	1	ND	ug/L	10
1,1-Dichloroethane	75-34-3	1	ND	ug/L	5
1,2-Dichloroethane	107-06-2	1	ND	ug/L	5
1,1-Dichloroethene	75-35-4	1	ND	ug/L	5
trans-1,2-Dichloroethene	156-60-5	1	ND	ug/L	5
cis-1,2-Dichloroethene	156-59-2	1	ND	ug/L	5
2,2-Dichloropropane	590-20-7	1	ND	ug/L	5
1,2-Dichloropropane	78-87-5	1	ND	ug/L	5
1,3-Dichloropropane	142-28-9	1	ND	ug/L	5
1,1-Dichloropropene	563-58-6	1	ND	ug/L	5
cis-1,3-Dichloropropene	10061-01-5	1	ND	ug/L	5
trans-1,3-Dichloropropene	10061-02-6	1	ND	ug/L	5
Ethylbenzene	100-41-4	1	ND	ug/L	5

Review By: Bob Cathel Report Approved By: Karen Kuoppala

"Dil" - Sample Dilution Factor
"ND" - Sample Concentration Not Detected above RL
"RL" - Method Report Limit

Form 1 - Data Summary Report
Prepared By: HydroLogic Laboratories, Inc.

Client ID:	MW-20D
Project Number:	97-1013
Sample ID:	L4890-4
Site / Project ID:	BENCHMARK CAROLINAS
Run ID:	R7215
Collection Date:	20-MAY-97
Received Date:	22-MAY-97
Report Date:	02-JUN-97

Analyte	CAS No.	Dil	Sample Conc.	Units	RL
Hexachlorobutadiene	87-68-3	1	ND	ug/L	10
Isopropylbenzene	98-82-8	1	ND	ug/L	10
p-Isopropyltoluene	99-87-6	1	ND	ug/L	10
Methylene chloride	75-09-2	1	ND	ug/L	5
Naphthalene	91-20-3	1	ND	ug/L	10
n-Propylbenzene	103-65-1	1	ND	ug/L	10
Styrene	100-42-5	1	ND	ug/L	5
1,1,1,2-Tetrachloroethane	630-20-6	1	ND	ug/L	5
1,1,2,2-Tetrachloroethane	79-34-5	1	ND	ug/L	5
Tetrachloroethene	127-18-4	1	ND	ug/L	5
Toluene	108-88-3	1	ND	ug/L	5
1,2,4-Trichlorobenzene	120-82-1	1	ND	ug/L	10
1,2,3-Trichlorobenzene	87-61-6	1	ND	ug/L	10
1,1,1-Trichloroethane	71-55-6	1	ND	ug/L	5
1,1,2-Trichloroethane	79-00-5	1	ND	ug/L	5
Trichloroethene	79-01-6	1	ND	ug/L	5
Trichlorofluoromethane	75-69-4	1	ND	ug/L	5
1,2,3-Trichloropropane	96-18-4	1	ND	ug/L	5
1,3,5-Trimethylbenzene	108-67-8	1	ND	ug/L	10
1,2,4-Trimethylbenzene	95-63-6	1	ND	ug/L	10
Vinyl chloride	75-01-4	1	ND	ug/L	2
(m+p)-Xylene	NA	1	ND	ug/L	5
o-Xylene	95-47-6	1	ND	ug/L	5
Dibromofluoromethane	SURROGATE	1	115	%	
Toluene-d8	SURROGATE	1	96	%	
4-Bromofluorobenzene	SURROGATE	1	94	%	

Review By: Bob Cathel Report Approved By: Karen Kuoppala

"Dil" - Sample Dilution Factor
"ND" - Sample Concentration Not Detected above RL
"RL" - Method Report Limit

Form 1 - Data Summary Report
Prepared By: HydroLogic Laboratories, Inc.

Client ID:	MW-20D
Project Number:	97-1013
Sample ID:	L4890-4
Site / Project ID:	BENCHMARK CAROLINAS
Run ID:	R7215
Collection Date:	20-MAY-97
Received Date:	22-MAY-97
Report Date:	02-JUN-97

Analyte	CAS No.	Dil	Sample Conc.	Units	RL
EPA Method 625					
Preparation Date: 02-JUN-97					
Analysis Date: 28-MAY-97 22:52					
Workgroup Number: WG11068					
Acenaphthene	83-32-9	1	ND	ug/L	5
Acenaphthylene	208-96-8	1	ND	ug/L	5
Anthracene	120-12-7	1	ND	ug/L	5
Benz(a)anthracene	56-55-3	1	ND	ug/L	5
Benzo(b)fluoranthene	205-99-2	1	ND	ug/L	5
Benzo(k)fluoranthene	207-08-9	1	ND	ug/L	5
Benzo(a)pyrene	50-32-8	1	ND	ug/L	5
Benzo(g,h,i)perylene	191-24-2	1	ND	ug/L	5
Chrysene	218-01-9	1	ND	ug/L	5
Dibenzofuran	132-64-9	1	ND	ug/L	5
Dibenz(a,h)anthracene	53-70-3	1	ND	ug/L	5
Dibenz(a,j)acridine	224-42-0	1	ND	ug/L	25
Fluoranthene	206-44-0	1	ND	ug/L	5
Fluorene	86-73-7	1	ND	ug/L	5
Indeno(1,2,3-cd)pyrene	193-39-5	1	ND	ug/L	5
2-Methylnaphthalene	91-57-6	1	ND	ug/L	5
Naphthalene	91-20-3	1	ND	ug/L	5
Phenanthrene	85-01-8	1	ND	ug/L	5
Pyrene	129-00-0	1	ND	ug/L	5
Nitrobenzene-d5	SURROGATE	1	74	%	
2-Fluorobiphenyl	SURROGATE	1	76	%	
p-Terphenyl-d14	SURROGATE	1	54	%	

Review By: Bob Cathel Report Approved By: Karen Kuoppala

"Dil" - Sample Dilution Factor
"ND" - Sample Concentration Not Detected above RL
"RL" - Method Report Limit

QC

DATA

PACKAGE

Form 1 - Data Summary Report
Prepared By: HydroLogic Laboratories, Inc.

Client ID:	Method Blank
Project Number:	Not Reported
Sample ID:	WG11143-1
Site / Project ID:	Not Reported
Run ID:	R7215
Collection Date:	Not Reported
Received Date:	02-JUN-97
Report Date:	02-JUN-97

SW846 Method 8260 (5 ml)
Preparation Date: 30-MAY-97
Analysis Date: 30-MAY-97 12:52
Workgroup Number: WG11143

Analyte	CAS No.	Dil	Sample Conc.	Units	RL
Benzene	71-43-2	1	ND	ug/L	5
Bromobenzene	108-86-1	1	ND	ug/L	5
Bromochloromethane	74-97-5	1	ND	ug/L	5
Bromodichloromethane	75-27-4	1	ND	ug/L	5
Bromoform	75-25-2	1	ND	ug/L	5
Bromomethane	74-83-9	1	ND	ug/L	10
tert-Butylbenzene	98-06-6	1	ND	ug/L	10
sec-Butylbenzene	135-98-8	1	ND	ug/L	10
n-Butylbenzene	104-51-8	1	ND	ug/L	10
Carbon tetrachloride	56-23-5	1	ND	ug/L	5
Chlorobenzene	108-90-7	1	ND	ug/L	5
Chloroethane	75-00-3	1	ND	ug/L	10
Chloroform	67-66-3	1	ND	ug/L	5
Chloromethane	74-87-3	1	ND	ug/L	10
2-Chlorotoluene	95-49-8	1	ND	ug/L	10
4-Chlorotoluene	106-43-4	1	ND	ug/L	10
1,2-Dibromo-3-chloropropane	96-12-8	1	ND	ug/L	100
Dibromochloromethane	124-48-1	1	ND	ug/L	5
1,2-Dibromoethane	106-93-4	1	ND	ug/L	5
Dibromomethane	74-95-3	1	ND	ug/L	5
1,3-Dichlorobenzene	541-73-1	1	ND	ug/L	10
1,4-Dichlorobenzene	106-46-7	1	ND	ug/L	10
1,2-Dichlorobenzene	95-50-1	1	ND	ug/L	10
Dichlorodifluoromethane	75-71-8	1	ND	ug/L	10
1,1-Dichloroethane	75-34-3	1	ND	ug/L	5
1,2-Dichloroethane	107-06-2	1	ND	ug/L	5
1,1-Dichloroethene	75-35-4	1	ND	ug/L	5
trans-1,2-Dichloroethene	156-60-5	1	ND	ug/L	5
cis-1,2-Dichloroethene	156-59-2	1	ND	ug/L	5
2,2-Dichloropropane	590-20-7	1	ND	ug/L	5
1,2-Dichloropropane	78-87-5	1	ND	ug/L	5
1,3-Dichloropropane	142-28-9	1	ND	ug/L	5
1,1-Dichloropropene	563-58-6	1	ND	ug/L	5
cis-1,3-Dichloropropene	10061-01-5	1	ND	ug/L	5
trans-1,3-Dichloropropene	10061-02-6	1	ND	ug/L	5
Ethylbenzene	100-41-4	1	ND	ug/L	5

Review By: Bob Cathel Report Approved By: Karen Kuoppala

"Dil" - Sample Dilution Factor
"ND" - Sample Concentration Not Detected above RL
"RL" - Method Report Limit

Form 1 - Data Summary Report
Prepared By: HydroLogic Laboratories, Inc.

Client ID:	Method Blank
Project Number:	Not Reported
Sample ID:	WG11143-1
Site / Project ID:	Not Reported
Run ID:	R7215
Collection Date:	Not Reported
Received Date:	02-JUN-97
Report Date:	02-JUN-97

Analyte	CAS No.	Dil	Sample Conc.	Units	RL
Hexachlorobutadiene	87-68-3	1	ND	ug/L	10
Isopropylbenzene	98-82-8	1	ND	ug/L	10
p-Isopropyltoluene	99-87-6	1	ND	ug/L	10
Methylene chloride	75-09-2	1	ND	ug/L	5
Naphthalene	91-20-3	1	ND	ug/L	10
n-Propylbenzene	103-65-1	1	ND	ug/L	10
Styrene	100-42-5	1	ND	ug/L	5
1,1,1,2-Tetrachloroethane	630-20-6	1	ND	ug/L	5
1,1,2,2-Tetrachloroethane	79-34-5	1	ND	ug/L	5
Tetrachloroethene	127-18-4	1	ND	ug/L	5
Toluene	108-88-3	1	ND	ug/L	5
1,2,4-Trichlorobenzene	120-82-1	1	ND	ug/L	10
1,2,3-Trichlorobenzene	87-61-6	1	ND	ug/L	10
1,1,1-Trichloroethane	71-55-6	1	ND	ug/L	5
1,1,2-Trichloroethane	79-00-5	1	ND	ug/L	5
Trichloroethene	79-01-6	1	ND	ug/L	5
Trichlorofluoromethane	75-69-4	1	ND	ug/L	5
1,2,3-Trichloropropane	96-18-4	1	ND	ug/L	5
1,3,5-Trimethylbenzene	108-67-8	1	ND	ug/L	10
1,2,4-Trimethylbenzene	95-63-6	1	ND	ug/L	10
Vinyl chloride	75-01-4	1	ND	ug/L	2
(m+p)-Xylene	NA	1	ND	ug/L	5
o-Xylene	95-47-6	1	ND	ug/L	5
Dibromofluoromethane	SURROGATE	1	112	%	
Toluene-d8	SURROGATE	1	99	%	
4-Bromofluorobenzene	SURROGATE	1	86	%	

Review By: Bob Cathel Report Approved By: Karen Kuoppala

"Dil" - Sample Dilution Factor
"ND" - Sample Concentration Not Detected above RL
"RL" - Method Report Limit

Form 1 - Data Summary Report
Prepared By: HydroLogic Laboratories, Inc.

Client ID:	Method Blank
Project Number:	Not Reported
Sample ID:	WG11128-1
Site / Project ID:	Not Reported
Run ID:	R7215
Collection Date:	Not Reported
Received Date:	30-MAY-97
Report Date:	30-MAY-97

SW846 Method 8260 (5 ml)
Preparation Date: 29-MAY-97
Analysis Date: 29-MAY-97 13:08
Workgroup Number: WG11128

Analyte	CAS No.	Dil	Sample Conc.	Units	RL
Benzene	71-43-2	1	ND	ug/L	5
Bromobenzene	108-86-1	1	ND	ug/L	5
Bromochloromethane	74-97-5	1	ND	ug/L	5
Bromodichloromethane	75-27-4	1	ND	ug/L	5
Bromoform	75-25-2	1	ND	ug/L	5
Bromomethane	74-83-9	1	ND	ug/L	10
tert-Butylbenzene	98-06-6	1	ND	ug/L	10
sec-Butylbenzene	135-98-8	1	ND	ug/L	10
n-Butylbenzene	104-51-8	1	ND	ug/L	10
Carbon tetrachloride	56-23-5	1	ND	ug/L	5
Chlorobenzene	108-90-7	1	ND	ug/L	5
Chloroethane	75-00-3	1	ND	ug/L	10
Chloroform	67-66-3	1	ND	ug/L	5
Chloromethane	74-87-3	1	ND	ug/L	10
2-Chlorotoluene	95-49-8	1	ND	ug/L	10
4-Chlorotoluene	106-43-4	1	ND	ug/L	10
1,2-Dibromo-3-chloropropane	96-12-8	1	ND	ug/L	100
Dibromochloromethane	124-48-1	1	ND	ug/L	5
1,2-Dibromoethane	106-93-4	1	ND	ug/L	5
Dibromomethane	74-95-3	1	ND	ug/L	5
1,3-Dichlorobenzene	541-73-1	1	ND	ug/L	10
1,4-Dichlorobenzene	106-46-7	1	ND	ug/L	10
1,2-Dichlorobenzene	95-50-1	1	ND	ug/L	10
Dichlorodifluoromethane	75-71-8	1	ND	ug/L	10
1,1-Dichloroethane	75-34-3	1	ND	ug/L	5
1,2-Dichloroethane	107-06-2	1	ND	ug/L	5
1,1-Dichloroethene	75-35-4	1	ND	ug/L	5
trans-1,2-Dichloroethene	156-60-5	1	ND	ug/L	5
cis-1,2-Dichloroethene	156-59-2	1	ND	ug/L	5
2,2-Dichloropropane	590-20-7	1	ND	ug/L	5
1,2-Dichloropropane	78-87-5	1	ND	ug/L	5
1,3-Dichloropropane	142-28-9	1	ND	ug/L	5
1,1-Dichloropropene	563-58-6	1	ND	ug/L	5
cis-1,3-Dichloropropene	10061-01-5	1	ND	ug/L	5
trans-1,3-Dichloropropene	10061-02-6	1	ND	ug/L	5
Ethylbenzene	100-41-4	1	ND	ug/L	5

Review By: Bob Cathel Report Approved By: Karen Kuoppala

"Dil" - Sample Dilution Factor
"ND" - Sample Concentration Not Detected above RL
"RL" - Method Report Limit

Form 1 - Data Summary Report
Prepared By: HydroLogic Laboratories, Inc.

Client ID:	Method Blank
Project Number:	Not Reported
Sample ID:	WG11128-1
Site / Project ID:	Not Reported
Run ID:	R7215
Collection Date:	Not Reported
Received Date:	30-MAY-97
Report Date:	30-MAY-97

Analyte	CAS No.	Dil	Sample Conc.	Units	RL
Hexachlorobutadiene	87-68-3	1	ND	ug/L	10
Isopropylbenzene	98-82-8	1	ND	ug/L	10
p-Isopropyltoluene	99-87-6	1	ND	ug/L	10
Methylene chloride	75-09-2	1	ND	ug/L	5
Naphthalene	91-20-3	1	ND	ug/L	10
n-Propylbenzene	103-65-1	1	ND	ug/L	10
Styrene	100-42-5	1	ND	ug/L	5
1,1,1,2-Tetrachloroethane	630-20-6	1	ND	ug/L	5
1,1,2,2-Tetrachloroethane	79-34-5	1	ND	ug/L	5
Tetrachloroethene	127-18-4	1	ND	ug/L	5
Toluene	108-88-3	1	ND	ug/L	5
1,2,4-Trichlorobenzene	120-82-1	1	ND	ug/L	10
1,2,3-Trichlorobenzene	87-61-6	1	ND	ug/L	10
1,1,1-Trichloroethane	71-55-6	1	ND	ug/L	5
1,1,2-Trichloroethane	79-00-5	1	ND	ug/L	5
Trichloroethene	79-01-6	1	ND	ug/L	5
Trichlorofluoromethane	75-69-4	1	ND	ug/L	5
1,2,3-Trichloropropane	96-18-4	1	ND	ug/L	5
1,3,5-Trimethylbenzene	108-67-8	1	ND	ug/L	10
1,2,4-Trimethylbenzene	95-63-6	1	ND	ug/L	10
Vinyl chloride	75-01-4	1	ND	ug/L	2
(m+p)-Xylene	NA	1	ND	ug/L	5
o-Xylene	95-47-6	1	ND	ug/L	5
Dibromofluoromethane	SURROGATE	1	114	%	
Toluene-d8	SURROGATE	1	103	%	
4-Bromofluorobenzene	SURROGATE	1	92	%	

Review By: Bob Cathel Report Approved By: Karen Kuoppala

"Dil" - Sample Dilution Factor
"ND" - Sample Concentration Not Detected above RL
"RL" - Method Report Limit

Laboratory Control Spike / Laboratory Control Spike Duplicate QC Report
Prepared By: HydroLogic Laboratories, Inc.

Sample Id: /usr/users/seed2/target/B3103
Work Group Id: WG11128-2
Run Id: R7215
GALP Record Id: Not Reported
Preparation Date: 29-MAY-97
Analysis Date: 29-MAY-97
Report Date: 30-MAY-97

Analyte	CAS No.	Low Limit	High Limit	RPD Limit	LCS Add	LCSD Add	Units	LCS %REC	LCSD %REC	LCS/LCSD RPD	QUAL (1)
SW846 Method 8260 (5 ml)											
Preparation Date: 29-MAY-97											
Analysis Date: 29-MAY-97 13:48											
Workgroup Number: WG11128											
Benzene	71-43-2	76	127	13	50	50	ug/L	76	84	10	---
Chlorobenzene	108-90-7	75	130	13	50	50	ug/L	76	88	15	--@
1,1-Dichloroethene	75-35-4	61	145	14	50	50	ug/L	66	76	14	---
Toluene	108-88-3	76	125	13	50	50	ug/L	76	86	12	---
Trichloroethene	79-01-6	71	120	14	50	50	ug/L	78	86	10	---

Note:
Technical Review By: Bob Cathel

Note:
Report Approved By: Karen Kuoppala

(1) QUAL - * = LCS Outside Control Limits; # = LCSD Outside Control Limits; @ = RPD Outside Control Limits; '-' = Value Within Control Limits
"Limits" - The "Limits" reported above (Low, High and RPD) are in units of percent (%).
"LCS,SD Add" - The conc. of analyte added to the LCS or LCSD sample.
"LCS %REC" - Laboratory Control Sample Percent Recovery
"LCSD %REC" - Laboratory Control Sample Duplicate Percent Recovery
"LCS/LCSD RPD" - Laboratory Control Sample / Laboratory Control Sample Duplicate Relative Percent Difference
NR - Not Reported

Matrix Spike / Matrix Spike Duplicate QC Report
Prepared By: HydroLogic Laboratories, Inc.

Client Id: L4886-1
Work Group Id: WG11128-4
Run Id: R7215
GALP Record Id: Not Reported
Preparation Date: 29-MAY-97
Analysis Date: 29-MAY-97
Report Date: 30-MAY-97

Analyte	CAS No.	Low Limit	High Limit	RPD Limit	MS Add	MSD Add	Units	Sample Conc	MS %REC	MSD %REC	MS/MSD RPD	QUAL (1)
SW846 Method 8260 (5 ml)												
Preparation Date: 29-MAY-97												
Analysis Date: 29-MAY-97 15:10												
Workgroup Number: WG11128												
Benzene	71-43-2	76	127	13	50	50	ug/L	ND	86	84	2	----
Chlorobenzene	108-90-7	75	130	13	50	50	ug/L	ND	90	88	2	----
1,1-Dichloroethene	75-35-4	61	145	14	50	50	ug/L	ND	70	72	3	----
Toluene	108-88-3	76	125	13	50	50	ug/L	ND	86	86	0	----
Trichloroethene	79-01-6	71	120	14	50	50	ug/L	ND	90	88	2	----

Note:
Technical Review By: Bob Cathel

Note:
Report Approved By: Karen Kuoppala

(1) QUAL - * = MS Outside Control Limits; # = MSD Outside Control Limits; @ = RPD Outside Control Limits; '-' = Value Within Control Limits
(1) QUAL - ! = The sample concentration is greater than two times the MS or MSD spike conc. High analyte conc. will effect the MS/MSD recoveries.
"Limits" - The "Limits" reported above (Low, High and RPD) are in units of percent (%).
"MS, MSD Add" - The conc. of analyte added to the MS or MSD sample (soil results are corrected for % moisture).
"Sample Conc" - The units are the same as those reported on the Form 1 Data Summary Report (soil results are corrected for % moisture).
"MS %REC" - Matrix Spike Percent Recovery
"MSD %REC" - Matrix Spike Duplicate Percent Recovery
"MS/MSD RPD" - Matrix Spike / Matrix Spike Duplicate Relative Percent Difference
NR - Not Reported
ND - Analyte "Not Detected" above the method detection limit.

Form 1 - Data Summary Report
Prepared By: HydroLogic Laboratories, Inc.

Client ID:	Method Blank
Project Number:	Not Reported
Sample ID:	WG11174-1
Site / Project ID:	Not Reported
Run ID:	R7234
Collection Date:	Not Reported
Received Date:	02-JUN-97
Report Date:	02-JUN-97

EPA Method 625
Preparation Date: 02-JUN-97
Analysis Date: 29-MAY-97 03:28
Workgroup Number: WG11174

Analyte	CAS No.	Dil	Sample Conc.	Units	RL
Acenaphthene	83-32-9	1	ND	ug/L	5
Acenaphthylene	208-96-8	1	ND	ug/L	5
Anthracene	120-12-7	1	ND	ug/L	5
Benz(a)anthracene	56-55-3	1	ND	ug/L	5
Benzo(b)fluoranthene	205-99-2	1	ND	ug/L	5
Benzo(k)fluoranthene	207-08-9	1	ND	ug/L	5
Benzo(a)pyrene	50-32-8	1	ND	ug/L	5
Benzo(g,h,i)perylene	191-24-2	1	ND	ug/L	5
Chrysene	218-01-9	1	ND	ug/L	5
Dibenzofuran	132-64-9	1	ND	ug/L	5
Dibenz(a,h)anthracene	53-70-3	1	ND	ug/L	5
Dibenz(a,j)acridine	224-42-0	1	ND	ug/L	25
Fluoranthene	206-44-0	1	ND	ug/L	5
Fluorene	86-73-7	1	ND	ug/L	5
Indeno(1,2,3-cd)pyrene	193-39-5	1	ND	ug/L	5
2-Methylnaphthalene	91-57-6	1	ND	ug/L	5
Naphthalene	91-20-3	1	ND	ug/L	5
Phenanthrene	85-01-8	1	ND	ug/L	5
Pyrene	129-00-0	1	ND	ug/L	5
Nitrobenzene-d5	SURROGATE	1	66	%	
2-Fluorobiphenyl	SURROGATE	1	66	%	
p-Terphenyl-d14	SURROGATE	1	106	%	

Review By: Bob Cathel Report Approved By: Karen Kuoppala

"Dil" - Sample Dilution Factor
"ND" - Sample Concentration Not Detected above RL
"RL" - Method Report Limit

Laboratory Control Spike / Laboratory Control Spike Duplicate QC Report
Prepared By: HydroLogic Laboratories, Inc.

Sample Id: /usr/users/seed2/target/C2209
Work Group Id: WG11174-2
Run Id: R7234
GALP Record Id: Not Reported
Preparation Date: 02-JUN-97
Analysis Date: 29-MAY-97
Report Date: 02-JUN-97

Analyte	CAS No.	Low Limit	High Limit	RPD Limit	LCS Add	LCSD Add	Units	LCS %REC	LCSD %REC	LCS/LCSD RPD	QUAL (1)
EPA Method 625											
Preparation Date: 02-JUN-97											
Analysis Date: 29-MAY-97 04:14											
Workgroup Number: WG11174											
Acenaphthene	83-32-9	47	118	31	50	50	ug/L	90	80	12	---
Pyrene	129-00-0	52	115	31	50	50	ug/L	132	108	20	*--

Note:
Technical Review By: Bob Cathel

Note:
Report Approved By: Karen Kuoppala

(1) QUAL - * = LCS Outside Control Limits; # = LCSD Outside Control Limits; @ = RPD Outside Control Limits; '-' = Value Within Control Limits
"Limits" - The "Limits" reported above (Low, High and RPD) are in units of percent (%).
"LCS,SD Add" - The conc. of analyte added to the LCS or LCSD sample.
"LCS %REC" - Laboratory Control Sample Percent Recovery
"LCSD %REC" - Laboratory Control Sample Duplicate Percent Recovery
"LCS/LCSD RPD" - Laboratory Control Sample / Laboratory Control Sample Duplicate Relative Percent Difference
NR - Not Reported

Form 1 - Data Summary Report
Prepared By: HydroLogic Laboratories, Inc.

Client ID:	Method Blank
Project Number:	Not Reported
Sample ID:	WG11068-1
Site / Project ID:	Not Reported
Run ID:	R7233
Collection Date:	Not Reported
Received Date:	27-MAY-97
Report Date:	02-JUN-97

EPA Method 625
Preparation Date: 02-JUN-97
Analysis Date: 29-MAY-97 03:28
Workgroup Number: WG11174

Analyte	CAS No.	Dil	Sample Conc.	Units	RL
Acenaphthene	83-32-9	1	ND	ug/L	5
Acenaphthylene	208-96-8	1	ND	ug/L	5
Anthracene	120-12-7	1	ND	ug/L	5
Benz(a)anthracene	56-55-3	1	ND	ug/L	5
Benzo(b)fluoranthene	205-99-2	1	ND	ug/L	5
Benzo(k)fluoranthene	207-08-9	1	ND	ug/L	5
Benzo(a)pyrene	50-32-8	1	ND	ug/L	5
Benzo(g,h,i)perylene	191-24-2	1	ND	ug/L	5
Chrysene	218-01-9	1	ND	ug/L	5
Dibenzofuran	132-64-9	1	ND	ug/L	5
Dibenz(a,h)anthracene	53-70-3	1	ND	ug/L	5
Dibenz(a,j)acridine	224-42-0	1	ND	ug/L	25
Fluoranthene	206-44-0	1	ND	ug/L	5
Fluorene	86-73-7	1	ND	ug/L	5
Indeno(1,2,3-cd)pyrene	193-39-5	1	ND	ug/L	5
2-Methylnaphthalene	91-57-6	1	ND	ug/L	5
Naphthalene	91-20-3	1	ND	ug/L	5
Phenanthrene	85-01-8	1	ND	ug/L	5
Pyrene	129-00-0	1	ND	ug/L	5
Nitrobenzene-d5	SURROGATE	1	33	ug/L	
2-Fluorobiphenyl	SURROGATE	1	33	ug/L	
p-Terphenyl-d14	SURROGATE	1	53	ug/L	

Review By: Bob Cathel Report Approved By: Karen Kuoppala

"Dil" - Sample Dilution Factor
"ND" - Sample Concentration Not Detected above RL
"RL" - Method Report Limit

Laboratory Control Spike / Laboratory Control Spike Duplicate QC Report
Prepared By: HydroLogic Laboratories, Inc.

Sample Id: /usr/users/seed2/target/C2209
Work Group Id: WG11068-2
Run Id: R7233
GALP Record Id: Not Reported
Preparation Date: 23-MAY-97
Analysis Date: 29-MAY-97
Report Date: 02-JUN-97

Analyte	CAS No.	Low Limit	High Limit	RPD Limit	LCS Add	LCSD Add	Units	LCS %REC	LCSD %REC	LCS/LCSD RPD	QUAL (1)
PA Method 625											
reparation Date: 23-MAY-97											
nalysis Date: 29-MAY-97 04:14											
orkgroup Number: WG11068											
Acenaphthene	83-32-9	47	118	31	50	50	ug/L	90	80	12	---
4-Chloro-3-methylphenol	59-50-7	23	97	23	100	100	ug/L	53	34	44	--@
2-Chlorophenol	95-57-8	27	123	27	100	100	ug/L	7	4	55	*#@
1,4-Dichlorobenzene	106-46-7	36	97	28	50	50	ug/L	56	52	7	---
2,4-Dinitrotoluene	121-14-2	39	96	38	50	50	ug/L	82	80	2	---
N-Nitrosodipropylamine	621-64-7	41	116	38	50	50	ug/L	82	80	2	---
Phenol	108-95-2	12	89	42	100	100	ug/L	16	9	56	-#@
Pyrene	129-00-0	52	115	31	50	50	ug/L	132	108	20	*--
1,2,4-Trichlorobenzene	120-82-1	44	98	28	50	50	ug/L	64	56	13	---

Note:
Technical Review By: Bob Cathel

Note:
Report Approved By: Karen Kuoppala

(1) QUAL - * = LCS Outside Control Limits; # = LCSD Outside Control Limits; @ = RPD Outside Control Limits; '-' = Value Within Control Limits
"Limits" - The "Limits" reported above (Low, High and RPD) are in units of percent (%).
"LCS,SD Add" - The conc. of analyte added to the LCS or LCSD sample.
"LCS %REC" - Laboratory Control Sample Percent Recovery
"LCSD %REC" - Laboratory Control Sample Duplicate Percent Recovery
"LCS/LCSD RPD" - Laboratory Control Sample / Laboratory Control Sample Duplicate Relative Percent Difference
NR - Not Reported