P 0429

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NC DENR
Division of Waste Management - Solid Waste

# Environmental Monitoring Reporting Form

**Notice:** This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

## Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

## Solid Waste Monitoring Data Submittal Information

**Name of entity submitting data (laboratory, consultant, facility owner):**

Withers & Ravenel, 111 MacKenan Drive, Cary, N.C. 27511

**Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:**

Name: John Palmer, P.G. Phone: 919-795-1926 OR 919-469-3340

E-mail: jpalmer@withersravenel.com

| Facility name: | Facility Address: | Facility Permit # | NC Landfill Rule: (.0500 or .1600) | Actual sampling dates (e.g., October 20-24, 2006) |
|---|---|---|---|---|
| Central Carolina Tire Phase I/II Scrap Tire Monofill Landfill | Central Carolina Tire 1616 McKoy Town Road Cameron, N.C. 28326 | 43-04 | .0500 | 10/19/06 |

**Environmental Status: (Check all that apply)**

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

**Type of data submitted: (Check all that apply)**

☑ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☑ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify)

**Notification attached?**

☐ No. No groundwater or surface water standards or explosive methane gas limits were exceeded.
☑ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

## Certification

**To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.**

| John M. Palmer | P.G. | 919-795-1926 |
|---|---|---|
| Facility Representative Name (Print) | Title | (Area Code) Telephone Number |

Signature: [signature] Date: 12/15/06

Affix NC Licensed/Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1994 GEOLOGIST JOHN MARK PALMER

Revised 10/2006

**WITHERS & RAVENEL**

ENGINEERS | PLANNERS | SURVEYORS

111 MacKenan Drive
CARY, NORTH CAROLINA, 27511
TEL: (919) 469-3340
FAX: (919) 535-4545

# LETTER OF TRANSMITTAL

| | | | |
|---|---|---|---|
| DATE | January 8, 2007 | JOB NO. | 0202334.09 |
| ATTENTION | Jaclynne Drummond | | |
| PHONE # | | | |
| RE: | Central Carolina Tire | | |
| Phase 1, 2 & 3 - Scrap Tire Monofill Landfill | | | |

TO: NCDENR DWM
Solid Waste Section
PO Box 27687
Raleigh, NC 27611-7687

**WE ARE SENDING YOU** ☐ **Attached via** **the following items:**

☐ **Shop Drawings** ☐ **Prints** ☐ **Plans** ☐ **Samples** ☐ **Specifications**

☐ **Copy of Letter** ☐ **Change order** ☐ **Diskette** ☐ _____

| COPIES | DATE | NO. | DESCRIPTION |
|---|---|---|---|
| 1 | 12/29/06 | | October-December 2006 Semi-Annual Goundwater Monitoring Rpt - Ph 1&2 |
| | | | |
| | | | |
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| | | | |

Received JAN 2007 Solid Waste Section

**THESE ARE TRANSMITTED as checked below:**

☐ **For approval** ☐ **Approved as submitted** ☐ **Resubmit** _____ **copies for approval**

☒ **For your use** ☐ **Approved as noted** ☐ **Submit** _____ **copies for distribution**

☐ **As requested** ☐ **Returned for corrections** ☐ **Return** _____ **corrected prints**

☐ **For review and comment** ☐ **Other:**

☐ **FOR BIDS DUE** ☐ **PRINTS RETURNED AFTER LOAN TO US**

**REMARKS:**

**COPY TO:** File, Central Carolina Tire **SIGNED:** John Palmer, PG

*If enclosures are not as noted, please notify us at once.*

December 29, 2006

North Carolina Division of Environment and Natural Resources
Division of Waste Management
Solid Waste Section
P.O. Box 27687
Raleigh, NC 27611-7687

Attention: Ms. Jaclynne Drummond

Re: October - December 2006 Semi-Annual Groundwater and Surface-Water Monitoring Report
Central Carolina Tire Phase I/II Scrap Tire Monofill Landfill
Harnett County, North Carolina
W&R Project No. 02020334.09

Dear Ms. Drummond:

Withers & Ravenel (W&R) has completed the second of two 2006 Semi-Annual groundwater and surface water monitoring events for the above referenced facility (**Figure 1**). The scope of work performed by W&R included collection and analysis of groundwater and surface water samples from the site, in general accordance with the monitoring plan that is included in the Richard R. Rust Hydrogeologic Investigation and Groundwater Monitoring Plan (Monitoring Plan) for Permit Modification of Central Carolina Tire Monofill Permit 43-04 dated July 18, 1995. Samples from eight groundwater monitoring wells and two surface water collection points are collected and tested on a semi-annual basis using procedures specified in the NC DENR "Groundwater Monitoring Guidance Document." This is the fifth sampling event conducted by Withers & Ravenel (W&R) for this site. The following paragraphs describe the methodology and results of the field activities and laboratory analyses.

## 1.0 WATER QUALITY SAMPLING METHODOLOGY

### 1.1 Groundwater Sampling

Groundwater samples were collected from eight monitoring wells, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, and MW-9 located proximal to the existing Phase I/II scrap tire monofill landfill (see **Figure 2**). Seven of the wells, MW-2 through MW-8, were installed in September 1995 and MW-9 was installed in April 2001 as a replacement well to MW-1, which was abandoned in December 2001 to accommodate landfill construction modifications. Monitoring well construction details and depth to groundwater data are summarized in **Table 1**. Hydraulic conductivity testing performed by Engineering & Environmental Company in May 2001 suggests an average surficial aquifer hydraulic conductivity of approximately $5.5 \times 10^{-6}$ cm/s. Based on designations presented in the Monitoring Plan, monitoring well MW-9 serves as the upgradient, natural background well for the facility, and MW-2 through MW-8 serve as the downgradient monitoring wells. Sampling activities were performed in general accordance with protocols detailed in the Monitoring Plan and the NC DENR "Groundwater Monitoring Guidance

Document." New disposable nitrile or latex gloves were worn at each sampling location. Prior to purging and sampling activities, water levels within each well were measured using a decontaminated electronic water-level meter. Measurements were referenced to the top of the well casing for each of the monitoring wells on October 19, 2006. The average depth to groundwater was calculated to be 7.80 feet below top of casing, approximately 325.51 feet above mean sea level. The depth to groundwater data determined for monitoring wells at the Phase I/II monofill landfill for the October-December 2006 report are summarized in **Table 1**.

After water level information was collected, at least three times the volume of the water standing in all wells was removed using a peristaltic (wells MW-2 through MW-8) or a submersible pump (well MW-9 only), and new polyethylene tubing. Measurements of the temperature, pH, specific conductance, and turbidity of the water produced were recorded. Copies of the Pre-Sampling / Well Purging Field Logs that contain this information are included in **Appendix A.**

Groundwater samples were collected immediately following the completion of well purging activities. Groundwater samples were pumped directly into laboratory provided containers, which were then placed into ice-containing coolers and delivered under proper chain-of-custody to Environmental Conservation Laboratories (ENCO), Inc. in Cary, North Carolina for analysis of Volatile Organic Compounds (VOCs) by EPA Method 8260B and the eight RCRA metals by EPA Methods 200.7 and 7470. All samples were submitted unfiltered and the sample containers included the appropriate type and amount of preservative. The temperature of the groundwater samples ranged between 18.7 and 20.7 degrees Celsius; the pH ranged between 4.06 and 5.14; the specific conductance ranged between 41 and 186 umhos/cm; and all turbidity readings were less than 10 nephelometric turbidity units. The final field parameter measurements for each well are summarized in **Table 1**.

For quality assurance/quality control (QA/QC), ENCO prepared a trip blank, which accompanied the sample bottles to and from the field, for analysis by EPA Method 8260B for VOCs.

### 1.2 Surface Water Sampling

Surface water samples were collected from the two downstream locations designated as SW-1 and SW-2. SW-1 is located approximately 140-feet south-southeast of the south-central sedimentation pond and within the drainage feature that parallels the southern limits of scrap tire disposal within the Phase I/II landfill. SW-2 is located approximately 250-feet south-southeast of the southeastern sedimentation pond and within the primary drainage feature that parallels the eastern limits of the Phase I/II landfill. New disposable nitrile or latex gloves were worn during all sampling activities. To preserve the integrity of the preservatives within the sample container, a decontaminated Teflon ladle was used to collect the surface water samples. The contents of the ladle were immediately decanted into laboratory provided containers. The containers were then labeled and placed into ice containing coolers and shipped under proper chain-of-custody to ENCO for analysis of VOCs and the eight RCRA metals by the previously referenced methods.

## 2.0 ANALYTICAL RESULTS

Laboratory results for the current sampling event are summarized in **Table 2**. Concentrations identified between the laboratory method detection limit (MDL) and the method reporting limit

(MRL) were reported with "J" qualifiers. Benzene was detected at a concentration of 1.4 ug/L in well MW-6. The NC Groundwater Standard for benzene is 1.0 ug/L; therefore, the concentration of benzene reported for well MW-6 is slightly above the NC Groundwater Standard. Tetrachloroethene was detected at a concentration of 1.8 ug/L in well MW-8. The NC Groundwater Standard for tetrachloroethene is 0.7 ug/L; therefore the concentration of tetrachloroethene reported for well MW-8 is above the NC Standard. Vinyl chloride was detected at a concentration of 1.1 ug/L in well MW-3. The NC Groundwater Standard for vinyl chloride is 0.015 ug/L; therefore the concentration of vinyl chloride reported for well MW-3 is above the NC Standard. The three VOCs benzene, tetrachloroethene, and vinyl chloride have not been detected in any groundwater or surface water sample during the period of time reflected in the attached **Table 3.** Analytical results for future sampling events will be used to confirm or refute the presence of these VOCs in site groundwater.

According to the laboratory analysis report, chloroethane was detected at a concentration of 1.6 ug/L in the sample from well MW-4. The NC Groundwater Standard for chloroethane is 2800 ug/L; therefore the concentration of chloroethane reported for well MW-4 is well below the NC Groundwater Standard. Cis-1,2-dichloroethene and 4-methyl-2-pentanone were reported at concentrations of 1.7 ug/L and 0.97 (J) ug/L, respectively in the sample from well MW-3. The reported concentration for cis-1,2-dichloroethene is below the North Carolina Groundwater Standard of 70 ug/L. A NC Groundwater Standard for 4-methyl-2-pentanone has not been established. However, the EPA Region III Risk Based Concentration Table recommends a 4-methyl-2-pentanone standard of 6,300 ug/L for tap water. No Appendix I VOCs were detected in either of the Phase I/II surface water collection points during the October-December event.

Barium was reported in all of the groundwater and surface samples submitted; however all of the concentrations were well below the 2000 ug/L NC Groundwater Standard for barium. Cadmium was reported in the sample from well MW-8 at a concentration below the NC Groundwater Standard for cadmium. Three metals were detected in the groundwater samples, at concentrations flagged with "J" qualifiers. These metals included arsenic, lead, and selenium. All of the estimated metals concentrations were below the respective NC Groundwater Standard. Two metals were reported for each of the two surface samples, at concentrations flagged with "J" qualifiers. Estimated metal concentrations detected in surface water sample SW-1 include arsenic and selenium. Metals concentrations reported for surface water sample SW-2 include arsenic and mercury. Reported metals concentrations for both surface water monitoring points were below the respective NC Surface Water Standard for WS class waters. The laboratory results for the groundwater and surface water samples are summarized by location as follows:

<u>MW-2</u>: Barium was reported at a concentration of 110 ug/L.

<u>MW-3</u>: Cis-1,2-dichloroethene was reported at a concentration of 1.7 ug/L. 4-Methyl-2-pentanone was reported at an estimated concentration of 0.97 ug/L. Vinyl chloride was reported at a concentration of 1.1 ug/L. Arsenic was reported at an estimated concentration of 3.3 ug/L. Barium was reported at a concentration of 34.1 ug/L.

<u>MW-4</u>: Chloroethane and was reported at a concentration of 1.6 ug/L. Arsenic was reported at an estimated concentration of 2.9 ug/L. Barium was reported at a concentration of 20.0 ug/L.

<u>MW-5</u>: Barium was reported at a concentration of 19.3 ug/L.

MW-6: Benzene was reported at a concentration of 1.4 ug/L. Arsenic was reported at an estimated concentration of 2.8 ug/L. Barium was reported at a concentration of 29.9 ug/L.

MW-7: Barium was reported at a concentration of 73.6 ug/L. Lead was reported at an estimated concentration of 2.1 ug/L.

MW-8: Tetrachloroethene was reported at a concentration of 1.8 ug/L. Barium was reported at a concentration of 42.5 ug/L. Cadmium was reported at a concentration of 1.10 ug/L.

MW-9: Arsenic was reported at an estimated concentration of 2.6 ug/L. Barium was reported at a concentration of 310 ug/L. Selenium was reported at an estimated concentration of 2.2 ug/L.

SW-1: Arsenic was reported at an estimated concentration of 2.2 ug/L. Barium was reported at a concentration of 17.6 ug/L. Selenium was reported at an estimated concentration of 3.7 ug/L.

SW-2: Arsenic was reported at an estimated concentration of 2.9 ug/L. Barium was reported at a concentration of 21.1 ug/L. Mercury was reported at an estimated concentration of 0.15 ug/L.

Two VOCs were identified in the trip blank. 2-Butanone was reported with a "B,J" qualifier, at an estimated concentration of 4.0 ug/L. Acetone was reported at a concentration of 5.1 ug/L. According to the historical summary presented as **Table 3**, neither of these parameters has been identified in any sample to date. The results of matrix blank analyses were within acceptable tolerances. Copies of the laboratory analytical reports are included in **Appendix B.**

## 3.0 CONCLUSIONS

- The results of the October-December 2006 Semi-Annual monitoring event for the Central Carolina Tire Phase I/II tire monofill landfill indicate that low concentrations of EPA Method 8260 VOCs were identified in four of the eight groundwater samples. Benzene (detected in well MW-6), tetrachloroethene (detected in well MW-8), and vinyl chloride (detected in well MW-3) were reported at concentrations slightly above the NC Groundwater Standards for these parameters. None of these VOCs has been identified in previous groundwater or surface water samples from the site. Chloroethane (detected in well MW-4), cis-1,2-dichloroethene (detected in well MW-3), and 4-methyl-2-pentanone (detected in well MW-3) were detected at concentrations below their respective North Carolina Groundwater Standards. Analytical results for future sampling events will be used to confirm or refute the presence of these VOCs in site groundwater.

- The metal barium was detected in each of the groundwater and surface water samples at concentrations below their NC Groundwater or Surface Water Standards. The metal cadmium was detected in the samples removed from location MW-7 and MW-8. The reported cadmium concentration for MW-8 was below the NC Groundwater Standard.

- Four additional metals (arsenic, lead, mercury, and selenium) were detected at concentrations below the MRL for these parameters, and were therefore flagged with "J" qualifiers. The estimated concentrations were below their respective NC Groundwater or Surface Water Standards.

- No VOCs were detected in the surface water samples.

- Two VOCs were detected in the QA/QC samples prepared by the analytical laboratory. 2-Butanone and acetone were reported with a "B,J" qualifiers, at estimated concentrations below their respective NC Groundwater Standards. It should be noted that, according to the historical summary presented in **Table 3**, neither of these parameters has been identified in any sample to date.

The next monitoring event for the Central Carolina Tire Phase I/II scrap tire monofill landfill is tentatively scheduled for April 2007. Please contact me at (919) 795-1926 if you have any questions regarding the contents of this report.

Sincerely,
WITHERS & RAVENEL, Inc.

John M. Palmer, P.G.
Project Geologist

cc: Mr. Thomas Womble

NORTH CAROLINA LICENSED SEAL 1994 GEOLOGIST JOHN MARK PALMER

# TABLES

**Table 1**
**Monitoring Well and Groundwater Data**
**October - December 2006 Sampling Event**
**Phase I/II Tire Monofill Landfill (Active)**
**Harnett County, North Carolina**
**W&R Project No. 202334.09**

| Well Location | Approximate Northing | Approximate Easting | Approximate Ground Surface Elevation (Ft MSL) | Depth to GW BTOC (Feet) 10/19/2006 | Field Parameters 10/19/2006 | | | Well Depth (Ft BLS) | Screened Interval (Ft BLS) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Temp. C° | pH | S.C. umhos/cm | | |
| MW-2 | 546711.83 | 1954218.21 | 308.95 | 3.82 | 18.7 | 4.13 | 65 | 20.0 | 20.0 - 5.0 |
| MW-3 | 546886.19 | 1954475.36 | 316.35 | 9.66 | 19.5 | 4.46 | 58 | 20.0 | 20.0 - 5.0 |
| MW-4 | 547466.86 | 1954319.02 | 324.68 | 4.35 | 19.4 | 4.82 | 51 | 20.0 | 20.0 - 5.0 |
| MW-5 | 546388.13 | 1953339.01 | 318.92 | 4.61 | 19.6 | 5.14 | 58 | 20.0 | 18.0 - 3.0 |
| MW-6 | 546330.17 | 1953877.76 | 302.84 | 5.96 | 20.0 | 4.39 | 75 | 25.0 | 25.0 - 5.0 |
| MW-7 | 546779.37 | 1953737.43 | 313.30 | 5.36 | 20.1 | 4.06 | 52 | 20.0 | 19.0 - 4.0 |
| MW-8 | 547742.98 | 1953546.78 | 344.38 | 6.33 | 19.5 | 4.46 | 41 | 20.0 | 19.0 - 4.0 |
| MW-9 | 547233.05 | 1952853.43 | 374.69 | 22.33 | 20.7 | 4.13 | 186 | 30.0 | 30.0 - 15.0 |

Notes: BTOC = Below Top of Casing
GW = Groundwater
Ft MSL = Measured in Feet Mean Sea Level
Ft BLS = Measured in Feet Below Land Surface
S.C. = Specific Conductance
All Monitoring Wells are constructed of 2" PVC
Northing / Easting and Surface Elevations for MW-2 through MW-8 were estimated from Richard Rust's drawing "Central Carolina Tire Monofill Phase II Permitting" dated March 1996.
Northing / Easting and Surface Elevation for MW-9 was estimated from Richard Rust's Request to Abandon MW-1 correspondance to NCDENR dated November 2001.
Monitoring Well construction details derived from original well construction records by: Blackwelder Environmental Boring & Drilling dated May 1992 (MW-2 through MW-4); Special, Inc. dated September 1995 (MW-5 through MW-8) ; and J&L Drilling dated April 2001 (MW-9).

## Table 3
## Historical Summary of Constituent Detections
## Phase I/II Tire Monofill Landfill (Active)
## Harnett County, North Carolina

| Sampling Date: | 2L Standard | 10/30/2002 | 4/15/2003 | 10/23/2003 | 3/24/2004 | 11/9/2004 | 6/23/2005 | 10/26/2005 | 3/30/2006 | 10/19/2006 |
|---|---|---|---|---|---|---|---|---|---|---|
| Well No: MW-2 | | | | | | | | | | |
| *Arsenic* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Barium* | 2000 | 94 | 130 | 113 | 135 | 170 | 180 | 170 | 152 | 110 |
| *Cadmium* | 1.75 | ND | 1.4 | ND | ND | ND | ND | ND | ND | ND |
| *Chromium* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Lead* | 15 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Mercury* | 1.05 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Selenium* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Silver* | 17.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

| Sampling Date: | 2L Standard | 10/30/2002 | 4/15/2003 | 10/23/2003 | 3/24/2004 | 11/9/2004 | 6/23/2005 | 10/26/2005 | 3/30/2006 | 10/19/2006 |
|---|---|---|---|---|---|---|---|---|---|---|
| Well No: MW-3 | | | | | | | | | | |
| *Arsenic* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | 3.3 (J) |
| *Barium* | 2000 | 16 | 11 | 17 | 13 | ND | ND | ND | 30.5 | 34.1 |
| *Cadmium* | 1.75 | ND | ND | ND | ND | ND | ND | 1 | ND | ND |
| *Chromium* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Lead* | 15 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Mercury* | 1.05 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Selenium* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Silver* | 17.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *4-Methyl-2-Pentanone* | N/A | ND | ND | ND | ND | ND | ND | ND | ND | 0.97 (J) |
| *Vinyl Chloride* | 0.015 | ND | ND | ND | ND | ND | ND | ND | ND | **1.1** |
| *C-1,2-Dichloroethene* | 70 | NA | NA | NA | NA | 1.5 | 1.0 | ND | 1.5 | 1.7 |

| Sampling Date: | 2L Standard | 10/30/2002 | 4/15/2003 | 10/23/2003 | 3/24/2004 | 11/9/2004 | 6/23/2005 | 10/26/2005 | 3/30/2006 | 10/19/2006 |
|---|---|---|---|---|---|---|---|---|---|---|
| Well No: MW-4 | | | | | | | | | | |
| *Arsenic* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | 2.9 (J) |
| *Barium* | 2000 | 34 | 27 | 32 | 14 | ND | ND | ND | 23.7 | 20 |
| *Cadmium* | 1.75 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Chromium* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Lead* | 15 | ND | ND | 5 | ND | ND | ND | ND | ND | ND |
| *Mercury* | 1.05 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Selenium* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Silver* | 17.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Chloroethane* | 2800 | ND | ND | ND | ND | ND | 3.0 | ND | 4.2 | 1.6 |
| *1,1-Dichloroethane* | 70 | ND | ND | ND | ND | ND | 3.0 | ND | 1.0 | ND |
| *1,2-Dichloroethane* | 0.38 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

| Sampling Date: | 2L Standard | 10/30/2002 | 4/15/2003 | 10/23/2003 | 3/24/2004 | 11/9/2004 | 6/23/2005 | 10/26/2005 | 3/30/2006 | 10/19/2006 |
|---|---|---|---|---|---|---|---|---|---|---|
| Well No: MW-5 | | | | | | | | | | |
| *Arsenic* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Barium* | 2000 | 16 | 23 | 24 | 15 | ND | ND | ND | ND | 19.3 |
| *Cadmium* | 1.75 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Chromium* | 50 | ND | 7 | ND | ND | ND | ND | ND | ND | ND |
| *Lead* | 15 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Mercury* | 1.05 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Selenium* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Silver* | 17.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

| Sampling Date: | 2L Standard | 10/30/2002 | 4/15/2003 | 10/23/2003 | 3/24/2004 | 11/9/2004 | 6/23/2005 | 10/26/2005 | 3/30/2006 | 10/19/2006 |
|---|---|---|---|---|---|---|---|---|---|---|
| Well No: MW-6 | | | | | | | | | | |
| *Arsenic* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | 2.8 (J) |
| *Barium* | 2000 | 33 | 47 | 48 | 44 | ND | ND | ND | 37.4 | 29.9 |
| *Cadmium* | 1.75 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Chromium* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Lead* | 15 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Mercury* | 1.05 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Selenium* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Silver* | 17.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Benzene* | 1 | ND | ND | ND | ND | ND | ND | ND | ND | 1.4 |

**Notes:**

Results in parts per billion (ppb)

ND - Not Detected above the Practical Quantitation Limit

NA - Not analyzed for or not available

Laboratory results in bold exceed 2L standards

Results for sampling conducted prior to November 2004 as presented in previous GW reports prepared by Richard R. Rust .

Results for the 11/9/04 sampling event represent the findings of the initial sampling activities conducted by Withers&Ravenel.

As of November 2006 NC DWM requires that "J" qualified values be reported.

## Table 3 (Continued)
### Historical Summary of Constituent Detections
### Phase I/II Tire Monofill Landfill (Active)
### Harnett County, North Carolina

| Sampling Date: | 2L Standard | 10/30/2002 | 4/15/2003 | 10/23/2003 | 3/24/2004 | 11/9/2004 | 6/23/2005 | 10/26/2005 | 3/30/2006 | 10/19/2006 |
|---|---|---|---|---|---|---|---|---|---|---|
| Well No: MW-7 | | | | | | | | | | |
| *Arsenic* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Barium* | 2000 | 45 | 45 | 119 | 102 | ND | ND | ND | 77 | 73.6 |
| *Cadmium* | 1.75 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Chromium* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Lead* | 15 | ND | ND | 5.3 | ND | ND | ND | ND | ND | 2.1 (J) |
| *Mercury* | 1.05 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Selenium* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Silver* | 17.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

| Sampling Date: | 2L Standard | 10/30/2002 | 4/15/2003 | 10/23/2003 | 3/24/2004 | 11/9/2004 | 6/23/2005 | 10/26/2005 | 3/30/2006 | 10/19/2006 |
|---|---|---|---|---|---|---|---|---|---|---|
| Well No: MW-8 | | | | | | | | | | |
| *Arsenic* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Barium* | 2000 | 162 | 112 | 32 | 24 | ND | ND | ND | 41.5 | 42.5 |
| *Cadmium* | 1.75 | ND | ND | ND | ND | ND | ND | ND | ND | 1.1 |
| *Chromium* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Lead* | 15 | 3 | 4 | ND | ND | ND | ND | ND | ND | ND |
| *Mercury* | 1.05 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Selenium* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Silver* | 17.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Tetrachloroethene* | 0.7 | ND | ND | ND | ND | ND | ND | ND | ND | **1.8** |

| Sampling Date: | 2L Standard | 10/30/2002 | 4/15/2003 | 10/23/2003 | 3/24/2004 | 11/9/2004 | 6/23/2005 | 10/26/2005 | 3/30/2006 | 10/19/2006 |
|---|---|---|---|---|---|---|---|---|---|---|
| Well No: MW-9 | | | | | | | | | | |
| *Arsenic* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | 2.6 (J) |
| *Barium* | 2000 | 111 | 188 | 455 | 308 | 370 | 270 | 360 | 242 | 310 |
| *Cadmium* | 1.75 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Chromium* | 50 | 14 | ND | 5.3 | ND | ND | ND | ND | ND | ND |
| *Lead* | 15 | 8 | ND | 7.0 | ND | ND | ND | ND | ND | ND |
| *Mercury* | 1.05 | ND | ND | 0.8 | ND | ND | ND | ND | ND | ND |
| *Selenium* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | 2.2 (J) |
| *Silver* | 17.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

| Sampling Date: | 2L Standard | 10/30/2002 | 4/15/2003 | 10/23/2003 | 3/24/2004 | 11/9/2004 | 6/23/2005 | 10/26/2005 | 3/30/2006 | 10/19/2006 |
|---|---|---|---|---|---|---|---|---|---|---|
| Well No: SW-1 | | | | | | | | | | |
| *Arsenic* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | 2.2 (J) |
| *Barium* | 2000 | 11 | 19 | 14 | 15 | ND | 100 | ND | ND | 17.6 |
| *Cadmium* | 1.75 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Chromium* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Lead* | 15 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Mercury* | 1.05 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Selenium* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | 3.7 (J) |
| *Silver* | 17.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Benzene* | 1 | ND | ND | ND | ND | ND | ND | 1.0 | ND | ND |

| Sampling Date: | 2L Standard | 10/30/2002 | 4/15/2003 | 10/23/2003 | 3/24/2004 | 11/9/2004 | 6/23/2005 | 10/26/2005 | 3/30/2006 | 10/19/2006 |
|---|---|---|---|---|---|---|---|---|---|---|
| Well No: SW-2 | | | | | | | | | | |
| *Arsenic* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | 2.9 (J) |
| *Barium* | 2000 | 38 | 26 | 12 | 13 | ND | ND | ND | ND | 21.1 |
| *Cadmium* | 1.75 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Chromium* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Lead* | 15 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Mercury* | 1.05 | ND | ND | ND | ND | ND | ND | ND | ND | 0.15 |
| *Selenium* | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Silver* | 17.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

**Notes:**

Results in parts per billion (ppb)

ND - Not Detected above the Practical Quantitation Limit

NA - Not analyzed for or not available

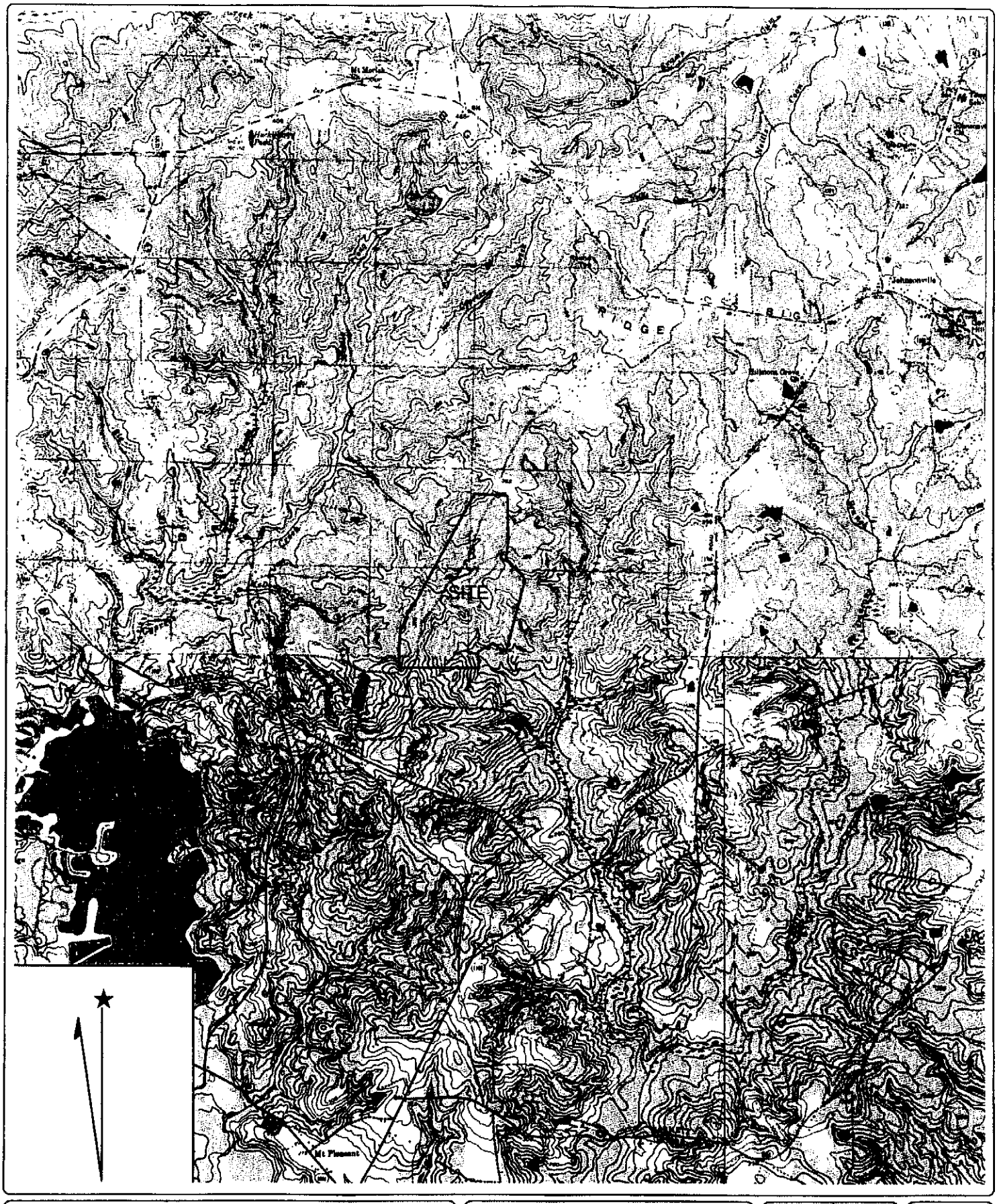
Laboratory results in bold exceed 2L standards

Results for sampling conducted prior to November 2004 as presented in previous GW reports prepared by Richard R. Rust.

Results for the 11/9/04 sampling event represent the findings of the initial sampling activities conducted by Withers&Ravenel.

As of November 2006 NC DWM requires that "J" qualified values be reported.

# FIGURES

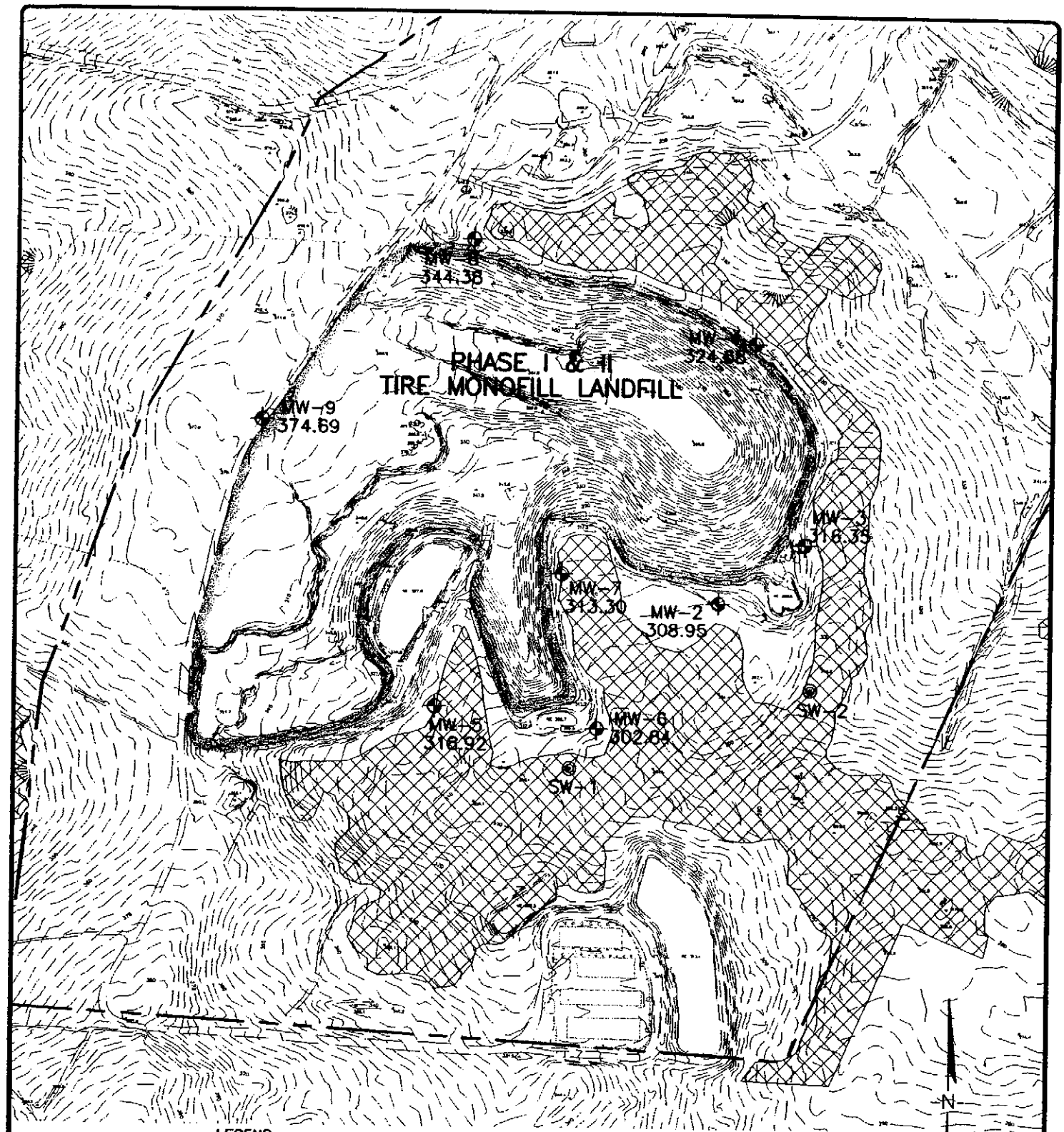



**WITHERS & RAVENEL**
ENGINEERS | PLANNERS | SURVEYORS
111 MacKenan Drive Cary, North Carolina 27511 www.withersravenel.com
tel: 919-460-8008 fax: 919-535-4545

*CENTRAL CAROLINA TIRE*
*1616 McCoy Town Road*
*Cameron, North Carolina*

*USGS Murchistown, NC*
*7.5 min. Quadrangle*

| DRAWN BY: | SCALE: | FIGURE NO. |
|---|---|---|
| JMP | 1:1200 | 1 |
| APPROVED BY: | DATE: | JOB NO: |
| ML | 11/24/04 | 202334.08 |




LEGEND

| | |
|---|---|
| SW-1 | SURFACE WATER MONITORING LOCATION |
| MW-9 374.69 | GROUNDWATER MONITORING WELL W/ APPROX. GROUND ELEVATION |
| | WETLANDS |
| | TOPOGRAPHIC CONTOUR |
| | PROPERTY BOUNDARY |

GRAPHIC SCALE 1"=400'

0 400 800 1200

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111 MacKenan Drive Cary, North Carolina 27511 tel: 919-469-3340 fax: 919-535-4545

www.withersravenel.com

CENTRAL CAROLINA TIRE

PHASE I & II
TIRE MONOFILL LANDFILL

| DRAWN BY: | SCALE | FIGURE NO. |
|---|---|---|
| DOU | 1"=400' | 2 |
| APPROVED BY: | DATE | JOB NO: |
| JP | 11/24/04 | 202334.09 |

# APPENDIX A

# PRE-SAMPLING WELL PURGING FORMS

**WITHERS & RAVENEL**

ENGINEERS | PLANNERS | SURVEYORS

# PRE-SAMPLING WELL PURGING

PROJECT: CENT. CARO. TIRE

WELL NUMBER: MW-2

WELL INSIDE DIAMETER: 2.0 INCHES

DEPTH OF BOTTOM: 20.5 FEET

LENGTH OF GRAVEL PACK: _____ FEET

DIAMETER OF GRAVEL PACK: _____ INCHES

PROJECT NUMBER: 02020334.09

DATE: 10/19/06 PAGE 1 OF 1

AIR TEMPERATURE (FAHRENHEIT): LOW 70's

WEATHER CONDITIONS: OVERCAST/FOGGY, CALM

HNU/OVA READING: _____

METHOD OF EXCAVATION AND TYPE OF EQUIPMENT USED: PERISTALTIC PUMP / HORIBA U-10

WITHDRAWAL OF WELL VOLUMES

| | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME |
|---|---|---|---|---|---|
| **FLUSHING** | | | | | |
| WATER LEVEL BEFORE | 3.82 | | | | |
| WATER LEVEL AFTER | / | | 3.99 | | |
| TIME BEGIN FLUSHING | 1035 | | | | |
| TIME END FLUSHING | / | | 1154 | | |
| ESTIMATED VOLUME FLUSHING (gal) | 2.75 | 5.5 | 8.25 | | |
| WELL VOLUMES REMOVED | 1 | 2 | 3 | | |
| **FIELD ANALYSIS** | | | | | |
| WATER TEMPERATURE (°C) | 18.7 | 18.5 | 18.7 | | |
| SAMPLE (ph) | 4.45 | 4.27 | 4.13 | | |
| SAMPLE CONDUCTIVITY (umhos/cm) | 67 | 66 | 65 | | |
| BUFFER BEFORE | | | | | |
| BUFFER AFTER | | | | | |
| ODOR | NONE | → | → | | |
| COLOR | CLEAR | → | → | | |
| Eh | | | | | |
| OTHER / TURBIDITY | <10 | <10 | <10 | | |

COMMENTS: * SAMPLED @ 1155

WELL VOLUME CALCULATIONS (1cf = 7.48 gal)

$\pi r^2 \times h$ = WELL VOLUME IN $FT^3$

$\pi = 3.14$

R = RADIUS IN INCHES/12 = RADIUS IN FEET

H = HEIGHT OF WATER COLUMN IN WELL IN FEET

CONVERSION FROM $FT^3$ TO GALLONS = 7.48 gal/$ft^3$

Well radius = 1 IN/12 = .0833 FT

h = 20.5 (WELL DEPTH) - 3.82 (DEPTH TO WATER) = 16.68 FT = h

3.14 x .00694 ($r^2$) x h = .364 $FT^3$ x 7.48 gal/$ft^3$ = 1 WELL VOLUME IN GAL = 2.72

**WITHERS & RAVENEL**

ENGINEERS | PLANNERS | SURVEYORS

# PRE-SAMPLING WELL PURGING

PROJECT: CENT. CARO. TIRE

WELL NUMBER: MW-3

WELL INSIDE DIAMETER: 2.0 INCHES

DEPTH OF BOTTOM: 22.7 FEET

LENGTH OF GRAVEL PACK: _____ FEET

DIAMETER OF GRAVEL PACK: _____ INCHES

PROJECT NUMBER: 02020334.09

DATE: 10/19/06 PAGE 1 OF 1

AIR TEMPERATURE (FAHRENHEIT): HIGH 70's

WEATHER CONDITIONS: MOSTLY OVERCAST, LT. BRZ.

HNU/OVA READING: _____

METHOD OF EXCAVATION AND TYPE OF EQUIPMENT USED: PERISTALTIC PUMP / HORIBA U-10

WITHDRAWAL OF WELL VOLUMES

| | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME |
|---|---|---|---|---|---|
| **FLUSHING** | | | | | |
| WATER LEVEL BEFORE | 9.66 | | | | |
| WATER LEVEL AFTER | | | 10.95 | | |
| TIME BEGIN FLUSHING | 1550 | | | | |
| TIME END FLUSHING | | | 1714 | | |
| ESTIMATED VOLUME FLUSHING (gal) | 2.25 | 4.5 | 6.75 | | |
| WELL VOLUMES REMOVED | 1 | 2 | 3 | | |
| **FIELD ANALYSIS** | | | | | |
| WATER TEMPERATURE (°C) | 19.9 | 19.6 | 19.5 | | |
| SAMPLE (ph) | 4.27 | 4.08 | 4.46 | | |
| SAMPLE CONDUCTIVITY (umhos/cm) | 56 | 56 | 58 | | |
| BUFFER BEFORE | | | | | |
| BUFFER AFTER | | | | | |
| ODOR | NONE | → | → | | |
| COLOR | CLEAR | → | → | | |
| Eh | | | | | |
| OTHER / TURBIDITY | <10 | <10 | <10 | | |

COMMENTS: * SAMPLED @ 1715

WELL VOLUME CALCULATIONS (1cf = 7.48 gal)

$\pi r^2 \times h$ = WELL VOLUME IN $FT^3$

$\pi = 3.14$

R = RADIUS IN INCHES/12 = RADIUS IN FEET

H = HEIGHT OF WATER COLUMN IN WELL IN FEET

CONVERSION FROM $FT^3$ TO GALLONS = 7.48 gal/$ft^3$

Well radius = 1 IN/12 = .0833 FT

h = 22.7 (WELL DEPTH) - 9.66 (DEPTH TO WATER) = 13.04 FT = h

3.14 × .00694 ($r^2$) × h = .284 $FT^3$ × 7.48 gal/$ft^3$ = 1 WELL VOLUME IN GAL = 2.13

**WITHERS & RAVENEL**

ENGINEERS | PLANNERS | SURVEYORS

# PRE-SAMPLING WELL PURGING

PROJECT: CENT. CARO. TIRE

WELL NUMBER: MW-4

WELL INSIDE DIAMETER: 2.0 INCHES

DEPTH OF BOTTOM: 19.1 FEET

LENGTH OF GRAVEL PACK: _____ FEET

DIAMETER OF GRAVEL PACK: _____ INCHES

PROJECT NUMBER: 02020334.09

DATE: 10/19/06 PAGE 1 OF 1

AIR TEMPERATURE (FAHRENHEIT): LOW 70's

WEATHER CONDITIONS: OVERCAST / FOGGY, CALM

HNU/OVA READING: _____

METHOD OF EXCAVATION AND TYPE OF EQUIPMENT USED: PERISTALTIC PUMP / HORIBA U-10

WITHDRAWAL OF WELL VOLUMES

| | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME |
|---|---|---|---|---|---|
| **FLUSHING** | | | | | |
| WATER LEVEL BEFORE | 4.35 | | | | |
| WATER LEVEL AFTER | / | | 6.07 | | |
| TIME BEGIN FLUSHING | 0920 | | | | |
| TIME END FLUSHING | / | | 1019 | | |
| ESTIMATED VOLUME FLUSHING (gal) | 2.5 | 5.0 | 7.5 | | |
| WELL VOLUMES REMOVED | 1 | 2 | 3 | | |
| **FIELD ANALYSIS** | | | | | |
| WATER TEMPERATURE (°C) | 19.3 | 19.2 | 19.4 | | |
| SAMPLE (ph) | 4.70 | 4.62 | 4.82 | | |
| SAMPLE CONDUCTIVITY (umhos/cm) | 49 | 50 | 51 | | |
| BUFFER BEFORE | | | | | |
| BUFFER AFTER | | | | | |
| ODOR | SULPHUR → | → | → | | |
| COLOR | CLEAR → | → | → | | |
| Eh | | | | | |
| OTHER / TURBIDITY | <10 | <10 | <10 | | |

COMMENTS: * SAMPLED @ 1020

WELL VOLUME CALCULATIONS (1cf = 7.48 gal)

$\pi r^2 \times h$ = WELL VOLUME IN $FT^3$

$\pi = 3.14$

R = RADIUS IN INCHES/12 = RADIUS IN FEET

H = HEIGHT OF WATER COLUMN IN WELL IN FEET

CONVERSION FROM $FT^3$ TO GALLONS = 7.48 gal/$ft^3$

Well radius = 1 IN/12 = .0833 FT

h = 19.1 (WELL DEPTH) - 4.35 (DEPTH TO WATER) = 14.75 FT = h

3.14 × .00694 ($r^2$) x h = .322 $FT^3$ x 7.48 gal/$ft^3$ = 1 WELL VOLUME IN GAL = 2.41

**WITHERS & RAVENEL**

ENGINEERS | PLANNERS | SURVEYORS

# PRE-SAMPLING WELL PURGING

PROJECT CENT. CARO. TIRE

WELL NUMBER MW-5

WELL INSIDE DIAMETER 2.0 INCHES

DEPTH OF BOTTOM 20.25 FEET

LENGTH OF GRAVEL PACK _____ FEET

DIAMETER OF GRAVEL PACK _____ INCHES

PROJECT NUMBER 02020334.09

DATE 10/19/06 PAGE 1 OF 1

AIR TEMPERATURE (FAHRENHEIT) MID 70's

WEATHER CONDITIONS MOSTLY OVERCAST, LT. BRZ.

HNU/OVA READING _____

METHOD OF EXCAVATION AND TYPE OF EQUIPMENT USED

PERISTALTIC PUMP / HORIBA U-10

WITHDRAWAL OF WELL VOLUMES

| | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME |
|---|---|---|---|---|---|
| **FLUSHING** | | | | | |
| WATER LEVEL BEFORE | 4.61 | | | | |
| WATER LEVEL AFTER | / | | 5.82 | | |
| TIME BEGIN FLUSHING | 1235 | | | | |
| TIME END FLUSHING | / | | 1404 | | |
| ESTIMATED VOLUME FLUSHING (gal) | 2.5 | 5.0 | 7.5 | | |
| WELL VOLUMES REMOVED | 1 | 2 | ~3 | | |
| **FIELD ANALYSIS** | | | | | |
| WATER TEMPERATURE (°C) | 19.5 | 19.2 | 19.6 | | |
| SAMPLE (ph) | 5.23 | 4.96 | 5.14 | | |
| SAMPLE CONDUCTIVITY (umhos/cm) | 60 | 57 | 50 | | |
| BUFFER BEFORE | | | | | |
| BUFFER AFTER | | | | | |
| ODOR | SUPHUR | → | → | | |
| COLOR | CLEAR | → | → | | |
| Eh | | | | | |
| OTHER / TURBIDITY | <10 | <10 | <10 | | |

COMMENTS 4 SAMPLES @ 1405

WELL VOLUME CALCULATIONS (1cf = 7.48 gal)

$\pi r^2 \times h$ = WELL VOLUME IN $FT^3$

$\pi = 3.14$

R = RADIUS IN INCHES/12 = RADIUS IN FEET

H = HEIGHT OF WATER COLUMN IN WELL IN FEET

CONVERSION FROM $FT^3$ TO GALLONS = 7.48 gal/$ft^3$

Well radius = 1 IN/12= .0833 FT

h= 20.25 (WELL DEPTH) - 4.61 (DEPTH TO WATER) = 15.64 FT = h

3.14 X .00694 ($r^2$) x h = .341 $FT^3$ x 7.48 gal/$ft^3$ = 1 WELL VOLUME IN GAL = 2.55

**WITHERS & RAVENEL**

ENGINEERS | PLANNERS | SURVEYORS

# PRE-SAMPLING WELL PURGING

PROJECT: CONT. CARO. TIRE

WELL NUMBER: MW-6

WELL INSIDE DIAMETER: 2.0 INCHES

DEPTH OF BOTTOM: 26.5 FEET

LENGTH OF GRAVEL PACK: _____ FEET

DIAMETER OF GRAVEL PACK: _____ INCHES

PROJECT NUMBER: 02020334.09

DATE: 10/19/00 PAGE 1 OF 1

AIR TEMPERATURE (FAHRENHEIT): HIGH 70's

WEATHER CONDITIONS: OVERCAST, LT. BRZ.

HNU/OVA READING: _____

METHOD OF EXCAVATION AND TYPE OF EQUIPMENT USED: PERISTALTIC PUMP / HORIBA U-10

WITHDRAWAL OF WELL VOLUMES

| | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME |
|---|---|---|---|---|---|
| **FLUSHING** | | | | | |
| WATER LEVEL BEFORE | 5.96 | | | | |
| WATER LEVEL AFTER | / | | 8.11 | | |
| TIME BEGIN FLUSHING | 1340 | | | | |
| TIME END FLUSHING | / | | 1534 | | |
| ESTIMATED VOLUME FLUSHING (gal) | 3.5 | 7.0 | 10.5 | | |
| WELL VOLUMES REMOVED | 1 | 2 | 3 | | |
| **FIELD ANALYSIS** | | | | | |
| WATER TEMPERATURE (°C) | 19.4 | 19.3 | 20.0 | | |
| SAMPLE (ph) | 4.25 | 4.15 | 4.39 | | |
| SAMPLE CONDUCTIVITY (umhos/cm) | 74 | 73 | 75 | | |
| BUFFER BEFORE | | | | | |
| BUFFER AFTER | | | | | |
| ODOR | NONE | → | → | | |
| COLOR | CLEAR | → | → | | |
| Eh | | | | | |
| OTHER / TURBIDITY | <10 | <10 | <10 | | |

COMMENTS: * SAMPLED @ 1535

WELL VOLUME CALCULATIONS (1cf = 7.48 gal)

$\pi r^2 \times h$ = WELL VOLUME IN $FT^3$

$\pi = 3.14$

R = RADIUS IN INCHES/12 = RADIUS IN FEET

H = HEIGHT OF WATER COLUMN IN WELL IN FEET

CONVERSION FROM $FT^3$ TO GALLONS = 7.48 gal/$ft^3$

Well radius = 1 IN/12 = .0833 FT

h = 26.5 (WELL DEPTH) - 5.96 (DEPTH TO WATER) = 20.54 FT = h

3.14 × .00694 ($r^2$) x h = .448 $FT^3$ x 7.48 gal/$ft^3$ = 1 WELL VOLUME IN GAL = 3.35

**WITHERS & RAVENEL**

ENGINEERS | PLANNERS | SURVEYORS

# PRE-SAMPLING WELL PURGING

PROJECT: CENT. CARO. TIRE

WELL NUMBER: MW-7

WELL INSIDE DIAMETER: 2.0 INCHES

DEPTH OF BOTTOM: 21.4 FEET

LENGTH OF GRAVEL PACK: _____ FEET

DIAMETER OF GRAVEL PACK: _____ INCHES

PROJECT NUMBER: 02020334.09

DATE: 10/19/06 PAGE 1 OF 1

AIR TEMPERATURE (FAHRENHEIT): MID 70's

WEATHER CONDITIONS: MOSTLY OVERCAST, LT. BRZ.

HNU/OVA READING: _____

METHOD OF EXCAVATION AND TYPE OF EQUIPMENT USED: PERISTALTIC PUMP / HORIBA U-10

WITHDRAWAL OF WELL VOLUMES

| | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME |
|---|---|---|---|---|---|
| **FLUSHING** | | | | | |
| WATER LEVEL BEFORE | 5.36 | | | | |
| WATER LEVEL AFTER | — | | 5.45 | | |
| TIME BEGIN FLUSHING | 1130 | | | | |
| TIME END FLUSHING | — | | 1324 | | |
| ESTIMATED VOLUME FLUSHING (gal) | 2.75 | 5.50 | 8.25 | | |
| WELL VOLUMES REMOVED | 1 | 2 | 3 | | |
| **FIELD ANALYSIS** | | | | | |
| WATER TEMPERATURE (°C) | 19.9 | 20.2 | 20.1 | | |
| SAMPLE (ph) | 4.33 | 4.43 | 4.06 | | |
| SAMPLE CONDUCTIVITY (umhos/cm) | 48 | 58 | 52 | | |
| BUFFER BEFORE | | | | | |
| BUFFER AFTER | | | | | |
| ODOR | NONE | → | → | | |
| COLOR | CLEAR | → | → | | |
| Eh | | | | | |
| OTHER / TURBIDITY | <10 | <10 | <10 | | |

COMMENTS: * SAMPLED @ 1325

WELL VOLUME CALCULATIONS (1cf = 7.48 gal)

$\pi r^2 \times h$ = WELL VOLUME IN $FT^3$

$\pi = 3.14$

R = RADIUS IN INCHES/12 = RADIUS IN FEET

H = HEIGHT OF WATER COLUMN IN WELL IN FEET

CONVERSION FROM $FT^3$ TO GALLONS = 7.48 gal/$ft^3$

Well radius = 1 IN/12 = .0833 FT

h = 21.4 (WELL DEPTH) - 5.36 (DEPTH TO WATER) = 16.04 FT = h

3.14 × .00694 ($r^2$) × h = .350 $FT^3$ × 7.48 gal/$ft^3$ = 1 WELL VOLUME IN GAL = 2.62

**WITHERS & RAVENEL**

ENGINEERS | PLANNERS | SURVEYORS

# PRE-SAMPLING WELL PURGING

PROJECT: CENT. CARO. TIRE

WELL NUMBER: MW-8

WELL INSIDE DIAMETER: 2.0 INCHES

DEPTH OF BOTTOM: 23.05 FEET

LENGTH OF GRAVEL PACK: _____ FEET

DIAMETER OF GRAVEL PACK: _____ INCHES

PROJECT NUMBER: 02020334.00

DATE: 10/19/06 PAGE 1 OF 1

AIR TEMPERATURE (FAHRENHEIT): LOW 60's

WEATHER CONDITIONS: V. FOGGY, CALM

HNU/OVA READING: _____

METHOD OF EXCAVATION AND TYPE OF EQUIPMENT USED: PERISTALTIC PUMP / HORIBA U-10

WITHDRAWAL OF WELL VOLUMES

| | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME |
|---|---|---|---|---|---|
| **FLUSHING** | | | | | |
| WATER LEVEL BEFORE | 6.33 | | | | |
| WATER LEVEL AFTER | — | | 6.35 | | |
| TIME BEGIN FLUSHING | 0835 | | | | |
| TIME END FLUSHING | — | | 1109 | | |
| ESTIMATED VOLUME FLUSHING (gal) | 2.75 | 5.5 | 8.25 | | |
| WELL VOLUMES REMOVED | 1 | 2 | 3 | | |
| **FIELD ANALYSIS** | | | | | |
| WATER TEMPERATURE (°C) | 19.4 | 19.4 | 19.5 | | |
| SAMPLE (ph) | 4.48 | 4.45 | 4.46 | | |
| SAMPLE CONDUCTIVITY (umhos/cm) | 44 | 42 | 41 | | |
| BUFFER BEFORE | | | | | |
| BUFFER AFTER | | | | | |
| ODOR | NONE | → | → | | |
| COLOR | CLEAR | → | → | | |
| Eh | | | | | |
| OTHER / TURBIDITY | <10 | <10 | <10 | | |

COMMENTS: * SAMPLED @ 1110

WELL VOLUME CALCULATIONS (1cf = 7.48 gal)

$\pi r^2 \times h$ = WELL VOLUME IN $FT^3$

$\pi = 3.14$

R = RADIUS IN INCHES/12 = RADIUS IN FEET

H = HEIGHT OF WATER COLUMN IN WELL IN FEET

CONVERSION FROM $FT^3$ TO GALLONS = 7.48 gal/$ft^3$

Well radius = 1 IN/12 = .0833 FT

h = 23.05 (WELL DEPTH) - 6.33 (DEPTH TO WATER) = 16.72 FT = h

3.14 x .00694 ($r^2$) x h = .365 $FT^3$ x 7.48 gal/$ft^3$ = 1 WELL VOLUME IN GAL = 2.73

**WITHERS & RAVENEL**

ENGINEERS | PLANNERS | SURVEYORS

# PRE-SAMPLING WELL PURGING

PROJECT: CENT. CARO. TIRE

WELL NUMBER: MW-9

WELL INSIDE DIAMETER: 2.0 INCHES

DEPTH OF BOTTOM: 32.5 FEET

LENGTH OF GRAVEL PACK: _____ FEET

DIAMETER OF GRAVEL PACK: _____ INCHES

PROJECT NUMBER: 02020334.09

DATE: 10/19/06 PAGE 1 OF _____

AIR TEMPERATURE (FAHRENHEIT): LOW 60's

WEATHER CONDITIONS: V. FOGGY, CALM

HNU/OVA READING: _____

METHOD OF EXCAVATION AND TYPE OF EQUIPMENT USED: SUBMERSIBLE PUMP / HORIBA U-10

WITHDRAWAL OF WELL VOLUMES

| | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME |
|---|---|---|---|---|---|
| **FLUSHING** | | | | | |
| WATER LEVEL BEFORE | 22.33 | | | | |
| WATER LEVEL AFTER | / | | | 24.46 | |
| TIME BEGIN FLUSHING | 0815 | | | | |
| TIME END FLUSHING | / | | | 1055 | |
| ESTIMATED VOLUME FLUSHING (gal) | 1.75 | 3.5 | 5.25 | 6.25 | |
| WELL VOLUMES REMOVED | 1 | 2 | 3 | ~3.5 | |
| **FIELD ANALYSIS** | | | | | |
| WATER TEMPERATURE (°C) | 20.4 | 20.5 | 20.6 | 20.7 | |
| SAMPLE (ph) | 4.30 | 4.26 | 4.14 | 4.13 | |
| SAMPLE CONDUCTIVITY (umhos/cm) | 259 | 201 | 186 | 186 | |
| BUFFER BEFORE | | | | | |
| BUFFER AFTER | | | | | |
| ODOR | NONE | → | → | → | |
| COLOR | SLIGHTLY CLOUDY | | | | |
| Eh | | | | | |
| OTHER / TURBIDITY | 21 | 20 | 29 | <10 | |

COMMENTS: REDUCED PUMPING RATE SLIGHTLY AFTER 3RD.
+ SAMPLED @ 1056

WELL VOLUME CALCULATIONS (1cf = 7.48 gal)

$\pi r^2 \times h$ = WELL VOLUME IN $FT^3$

$\pi = 3.14$

R = RADIUS IN INCHES/12 = RADIUS IN FEET

H = HEIGHT OF WATER COLUMN IN WELL IN FEET

CONVERSION FROM $FT^3$ TO GALLONS = 7.48 gal/$ft^3$

Well radius = 1 IN/12 = .0833 FT

h = 32.5 (WELL DEPTH) - 22.33 (DEPTH TO WATER) = 10.17 FT = h

3.14 × .00694 ($r^2$) × h = .222 $FT^3$ × 7.48 gal/$ft^3$ = 1 WELL VOLUME IN GAL = 1.66

(CENTRAL)

**WITHERS & RAVENEL**

ENGINEERS | PLANNERS | SURVEYORS

# PRE-SAMPLING WELL PURGING

PROJECT CENT. CARO. TIRE

WELL NUMBER SW-1

WELL INSIDE DIAMETER _____ INCHES

DEPTH OF BOTTOM _____ FEET

LENGTH OF GRAVEL PACK _____ FEET

DIAMETER OF GRAVEL PACK _____ INCHES

PROJECT NUMBER 02020334.09

DATE 10/19/06 PAGE 1 OF 1

AIR TEMPERATURE (FAHRENHEIT) HIGH 70'S

WEATHER CONDITIONS MOSTLY OVERCAST, LT. BRZ

HNU/OVA READING _____

METHOD OF EXCAVATION AND TYPE OF EQUIPMENT USED

TEFLON SCOOP / HORIBA U-10

WITHDRAWAL OF WELL VOLUMES

| | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME |
|---|---|---|---|---|---|
| **FLUSHING** | | | | | |
| WATER LEVEL BEFORE | | | | | |
| WATER LEVEL AFTER | | | | | |
| TIME BEGIN FLUSHING | | | | | |
| TIME END FLUSHING | | | | | |
| ESTIMATED VOLUME FLUSHING (gal) | | | | | |
| WELL VOLUMES REMOVED | | | | | |
| **FIELD ANALYSIS** | | | | | |
| WATER TEMPERATURE (°C) | 19.4 | | | | |
| SAMPLE (ph) | 5.42 | | | | |
| SAMPLE CONDUCTIVITY (umhos/cm) | 49 | | | | |
| BUFFER BEFORE | | | | | |
| BUFFER AFTER | | | | | |
| ODOR | NONE | | | | |
| COLOR | CLEAR | | | | |
| Eh | | | | | |
| OTHER / TURBIDITY | <10 | | | | |

COMMENTS * SAMPLED @ 1645

WELL VOLUME CALCULATIONS (1cf = 7.48 gal)

$\pi r^2 \times h$ = WELL VOLUME IN $FT^3$

$\pi = 3.14$

R = RADIUS IN INCHES/12 = RADIUS IN FEET

H = HEIGHT OF WATER COLUMN IN WELL IN FEET

CONVERSION FROM $FT^3$ TO GALLONS = 7.48 gal/$ft^3$

Well radius = _____ IN/12= _____ FT

h= _____ (WELL DEPTH) - _____ (DEPTH TO WATER) = _____ FT = h

3.14 x _____ ($r^2$) x h = _____ $FT^3$ x 7.48 gal/$ft^3$ = 1 WELL VOLUME IN GAL = _____

(EASTERN)

**WITHERS & RAVENEL**

ENGINEERS | PLANNERS | SURVEYORS

# PRE-SAMPLING WELL PURGING

PROJECT CENT. CARD. TIRE

WELL NUMBER SW-2

WELL INSIDE DIAMETER _____ INCHES

DEPTH OF BOTTOM _____ FEET

LENGTH OF GRAVEL PACK _____ FEET

DIAMETER OF GRAVEL PACK _____ INCHES

PROJECT NUMBER 02020334.09

DATE 10/19/06 PAGE 1 OF 1

AIR TEMPERATURE (FAHRENHEIT) HIGH 70'S

WEATHER CONDITIONS MOSTLY OVERCAST, LT. BRZ.

HNU/OVA READING _____

METHOD OF EXCAVATION AND TYPE OF EQUIPMENT USED

TEFLON SCOOP / HORIBA U-10

WITHDRAWAL OF WELL VOLUMES

| | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME | WELL VOLUME |
|---|---|---|---|---|---|
| **FLUSHING** | | | | | |
| WATER LEVEL BEFORE | | | | | |
| WATER LEVEL AFTER | | | | | |
| TIME BEGIN FLUSHING | | | | | |
| TIME END FLUSHING | | | | | |
| ESTIMATED VOLUME FLUSHING (gal) | | | | | |
| WELL VOLUMES REMOVED | | | | | |
| **FIELD ANALYSIS** | | | | | |
| WATER TEMPERATURE (°C) | 19.1 | | | | |
| SAMPLE (ph) | 4.08 | | | | |
| SAMPLE CONDUCTIVITY (umhos/cm) | 41 | | | | |
| BUFFER BEFORE | | | | | |
| BUFFER AFTER | | | | | |
| ODOR | NONE | | | | |
| COLOR | CLEAR | | | | |
| Eh | | | | | |
| OTHER / TURBIDITY | <10 | | | | |

COMMENTS * SAMPLED @ 1605

WELL VOLUME CALCULATIONS (1cf = 7.48 gal)

$\pi r^2 \times h$ = WELL VOLUME IN $FT^3$

$\pi = 3.14$

R = RADIUS IN INCHES/12 = RADIUS IN FEET

H = HEIGHT OF WATER COLUMN IN WELL IN FEET

CONVERSION FROM $FT^3$ TO GALLONS = 7.48 gal/$ft^3$

Well radius = _____ IN/12= _____ FT

h= _____ (WELL DEPTH) - _____ (DEPTH TO WATER) = _____ FT = h

3.14 X _____ $(r^2) \times h$ = _____ $FT^3$ x 7.48 gal/$ft^3$ = 1 WELL VOLUME IN GAL = _____

# APPENDIX B

# LABORATORY ANALYTICAL RESULTS

**Environmental Conservation Laboratories, Inc.**
**102-A Woodwinds Industrial Court**
**Cary NC, 27511**
**Phone: 919.467.3090 FAX: 919.467.3515**

www.encolabs.com

Wednesday, November 29, 2006

Withers & Ravenel Environmental (WI009)

Attn: John Palmer

111 MacKenan Drive

Cary, NC 27511

**RE: Project Number: 02020334.09, Project Name/Desc: Central Carolina Tire Ph. I & II**
**ENCO Workorder: C603724**

Dear John Palmer,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, October 20, 2006.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

This data has been produced in accordance with NELAC standards (June, 2003). This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Bob George For Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 44.

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## SAMPLE SUMMARY/LABORATORY CHRONICLE

**Client ID:** MW-2 **Lab ID:** C603724-01

**Sampled:** 10/19/06 11:55 **Received:** 10/20/06 07:40

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 04/17/07 | 10/20/06 09:05 | 10/23/2006 10:56 |
| EPA 7470A | 11/16/06 | 10/23/06 09:38 | 10/23/2006 16:02 |
| EPA 8260B | 11/02/06 | 10/29/06 10:29 | 10/30/2006 07:12 |

**Client ID:** MW-3 **Lab ID:** C603724-02

**Sampled:** 10/19/06 17:15 **Received:** 10/20/06 07:40

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 04/17/07 | 10/20/06 09:05 | 10/23/2006 11:40 |
| EPA 7470A | 11/16/06 | 10/23/06 09:38 | 10/23/2006 15:40 |
| EPA 8260B | 11/02/06 | 10/29/06 10:29 | 10/30/2006 07:37 |

**Client ID:** MW-4 **Lab ID:** C603724-03

**Sampled:** 10/19/06 10:20 **Received:** 10/20/06 07:40

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 04/17/07 | 10/20/06 09:05 | 10/23/2006 11:47 |
| EPA 7470A | 11/16/06 | 10/23/06 09:38 | 10/23/2006 16:04 |
| EPA 8260B | 11/02/06 | 10/29/06 10:29 | 10/30/2006 08:03 |

**Client ID:** MW-5 **Lab ID:** C603724-04

**Sampled:** 10/19/06 14:05 **Received:** 10/20/06 07:40

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 04/17/07 | 10/20/06 09:05 | 10/23/2006 12:10 |
| EPA 7470A | 11/16/06 | 10/23/06 09:38 | 10/23/2006 16:06 |
| EPA 8260B | 11/02/06 | 10/29/06 10:29 | 10/30/2006 08:28 |

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**Client ID:** MW-6 **Lab ID:** C603724-05

**Sampled:** 10/19/06 15:35 **Received:** 10/20/06 07:40

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 04/17/07 | 10/20/06 09:05 | 10/23/2006 12:29 |
| EPA 7470A | 11/16/06 | 10/23/06 09:38 | 10/23/2006 16:08 |
| EPA 8260B | 11/02/06 | 10/29/06 10:29 | 10/30/2006 08:53 |

**Client ID:** MW-7 **Lab ID:** C603724-06

**Sampled:** 10/19/06 13:25 **Received:** 10/20/06 07:40

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 04/17/07 | 10/20/06 09:05 | 10/23/2006 12:36 |
| EPA 7470A | 11/16/06 | 10/23/06 09:38 | 10/23/2006 16:10 |
| EPA 8260B | 11/02/06 | 10/29/06 10:29 | 10/30/2006 09:19 |

**Client ID:** MW-8 **Lab ID:** C603724-07

**Sampled:** 10/19/06 11:10 **Received:** 10/20/06 07:40

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 04/17/07 | 10/20/06 09:05 | 10/23/2006 12:43 |
| EPA 7470A | 11/16/06 | 10/23/06 09:38 | 10/23/2006 16:12 |
| EPA 8260B | 11/02/06 | 10/30/06 08:05 | 10/30/2006 14:31 |

**Client ID:** MW-9 **Lab ID:** C603724-08

**Sampled:** 10/19/06 10:56 **Received:** 10/20/06 07:40

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 04/17/07 | 10/20/06 09:05 | 10/23/2006 12:50 |
| EPA 7470A | 11/16/06 | 10/23/06 09:38 | 10/23/2006 16:14 |
| EPA 8260B | 11/02/06 | 10/30/06 08:05 | 10/30/2006 14:56 |

**Client ID:** SW-1 **Lab ID:** C603724-09

**Sampled:** 10/19/06 16:45 **Received:** 10/20/06 07:40

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 04/17/07 | 10/20/06 09:05 | 10/23/2006 12:57 |
| EPA 7470A | 11/16/06 | 10/23/06 09:38 | 10/23/2006 16:16 |
| EPA 8260B | 11/02/06 | 10/30/06 08:05 | 10/30/2006 15:22 |

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**Client ID:** SW-2 **Lab ID:** C603724-10

**Sampled:** 10/19/06 16:05 **Received:** 10/20/06 07:40

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 04/17/07 | 10/20/06 09:05 | 10/23/2006 13:04 |
| EPA 7470A | 11/16/06 | 10/23/06 09:38 | 10/23/2006 16:18 |
| EPA 8260B | 11/02/06 | 10/30/06 08:05 | 10/30/2006 15:47 |

**Client ID:** Trip Blank **Lab ID:** C603724-11

**Sampled:** 10/19/06 00:00 **Received:** 10/20/06 07:40

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 8260B | 11/02/06 | 10/30/06 08:05 | 10/30/2006 14:05 |

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## SAMPLE DETECTION SUMMARY

**Client ID: MW-2** — **Lab ID: C603724-01**

| Analyte | Results/Qual | NC SWS RL | Units | Method |
|---|---|---|---|---|
| Barium | 110 | 60 | ug/L | EPA 6010B |

**Client ID: MW-3** — **Lab ID: C603724-02**

| Analyte | Results/Qual | NC SWS RL | Units | Method |
|---|---|---|---|---|
| 4-Methyl-2-pentanone | 0.97 J | 51 | ug/L | EPA 8260B |
| Arsenic | 3.3 J | 7.5 | ug/L | EPA 6010B |
| Barium | 34.1 | 60 | ug/L | EPA 6010B |
| cis-1,2-Dichloroethene | 1.7 | 3 | ug/L | EPA 8260B |
| Vinyl chloride | 1.1 | 5.5 | ug/L | EPA 8260B |

**Client ID: MW-4** — **Lab ID: C603724-03**

| Analyte | Results/Qual | NC SWS RL | Units | Method |
|---|---|---|---|---|
| Arsenic | 2.9 J | 7.5 | ug/L | EPA 6010B |
| Barium | 20.0 | 60 | ug/L | EPA 6010B |
| Chloroethane | 1.6 | 5.5 | ug/L | EPA 8260B |

**Client ID: MW-5** — **Lab ID: C603724-04**

| Analyte | Results/Qual | NC SWS RL | Units | Method |
|---|---|---|---|---|
| Barium | 19.3 | 60 | ug/L | EPA 6010B |

**Client ID: MW-6** — **Lab ID: C603724-05**

| Analyte | Results/Qual | NC SWS RL | Units | Method |
|---|---|---|---|---|
| Arsenic | 2.8 J | 7.5 | ug/L | EPA 6010B |
| Barium | 29.9 | 60 | ug/L | EPA 6010B |
| Benzene | 1.4 | 3 | ug/L | EPA 8260B |

**Client ID: MW-7** — **Lab ID: C603724-06**

| Analyte | Results/Qual | NC SWS RL | Units | Method |
|---|---|---|---|---|
| Barium | 73.6 | 60 | ug/L | EPA 6010B |
| Lead | 2.1 J | 6.5 | ug/L | EPA 6010B |

**Client ID: MW-8** — **Lab ID: C603724-07**

| Analyte | Results/Qual | NC SWS RL | Units | Method |
|---|---|---|---|---|
| Barium | 42.5 | 60 | ug/L | EPA 6010B |
| Cadmium | 1.10 | 1 | ug/L | EPA 6010B |
| Tetrachloroethene | 1.8 | 3 | ug/L | EPA 8260B |

**Client ID: MW-9** — **Lab ID: C603724-08**

| Analyte | Results/Qual | NC SWS RL | Units | Method |
|---|---|---|---|---|
| Arsenic | 2.6 J | 7.5 | ug/L | EPA 6010B |
| Barium | 310 | 60 | ug/L | EPA 6010B |
| Selenium | 2.2 J | 10 | ug/L | EPA 6010B |

**Client ID: SW-1** — **Lab ID: C603724-09**

| Analyte | Results/Qual | NC SWS RL | Units | Method |
|---|---|---|---|---|
| Arsenic | 2.2 J | 7.5 | ug/L | EPA 6010B |

| | | | | |
|---|---|---|---|---|
| Barium | 17.6 | 60 | ug/L | EPA 6010B |
| Selenium | 3.7 J | 10 | ug/L | EPA 6010B |

**Client ID:** SW-2 **Lab ID:** C603724-10

| Analyte | Results/Qual | NC SWS RL | Units | Method |
|---|---|---|---|---|
| Arsenic | 2.9 J | 7.5 | ug/L | EPA 6010B |
| Barium | 21.1 | 60 | ug/L | EPA 6010B |
| Mercury | 0.15 J | 0.2 | ug/L | EPA 7470A |

**Client ID:** Trip Blank **Lab ID:** C603724-11

| Analyte | Results/Qual | NC SWS RL | Units | Method |
|---|---|---|---|---|
| 2-Butanone | 4.0 J | 51 | ug/L | EPA 8260B |
| Acetone | 5.1 | 51 | ug/L | EPA 8260B |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW-2 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-01 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J29002 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 0.50 U | 0.50 | 1.0 | 8 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 0.60 U | 0.60 | 1.0 | 13 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 2-Butanone | 78-93-3 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| 2-Hexanone | 591-78-6 | 0.50 U | 0.50 | 5.0 | 26 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| Acetone | 67-64-1 | 1.2 U | 1.2 | 5.0 | 51 | ug/L |
| Acrylonitrile | 107-13-1 | 1.7 U | 1.7 | 5.0 | 102.5 | ug/L |
| Benzene | 71-43-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Bromochloromethane | 74-97-5 | 0.50 U | 0.50 | 1.0 | 3 | ug/L |
| Bromoform | 75-25-2 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Bromomethane | 74-83-9 | 0.60 U | 0.60 | 1.0 | 5.5 | ug/L |
| Carbon disulfide | 75-15-0 | 0.30 U | 0.30 | 5.0 | 51 | ug/L |
| Carbon tetrachloride | 56-23-5 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| Chlorobenzene | 108-90-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Chloroethane | 75-00-3 | 0.40 U | 0.40 | 1.0 | 5.5 | ug/L |
| Chloroform | 67-66-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Chloromethane | 74-87-3 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromomethane | 74-95-3 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |
| Ethylbenzene | 100-41-4 | 0.10 U | 0.10 | 1.0 | 3 | ug/L |
| Iodomethane | 74-88-4 | 0.80 U | 0.80 | 2.0 | 6 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 0.30 U | 0.30 | 2.0 | NE | ug/L |
| o-Xylene | 95-47-6 | 0.20 U | 0.20 | 1.0 | NE | ug/L |
| Styrene | 100-42-5 | 0.10 U | 0.10 | 1.0 | 5.5 | ug/L |
| Tetrachloroethene | 127-18-4 | 0.90 U | 0.90 | 1.0 | 3 | ug/L |
| Toluene | 108-88-3 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW-2 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-01 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J29002 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 156-60-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 0.50 U | 0.50 | 1.0 | 50.5 | ug/L |
| Trichloroethene | 79-01-6 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Vinyl acetate | 108-05-4 | 1.0 U | 1.0 | 2.0 | 26 | ug/L |
| Vinyl chloride | 75-01-4 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |

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# ANALYTICAL REPORT

Sample ID: MW-2
Lab #: C603724-01

Project: Central Carolina Tire Ph. I & II
Work Order #: C603724
Matrix: Ground Water

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 7440-38-2 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| **Barium** | 7440-39-3 | **110** | 0.20 | 10.0 | 60 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Cadmium | 7440-43-9 | 0.50 U | 0.50 | 1.00 | 1 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Chromium | 7440-47-3 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Lead | 7439-92-1 | 2.0 U | 2.0 | 10.0 | 6.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Mercury | 7439-97-6 | 0.11 U | 0.11 | 0.20 | 0.2 | ug/L | EPA 7470A | EPA 7470A | 6J23013 |
| Selenium | 7782-49-2 | 2.0 U | 2.0 | 10.0 | 10 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Silver | 7440-22-4 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW-3 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-02 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J29002 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 0.50 U | 0.50 | 1.0 | 8 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 0.60 U | 0.60 | 1.0 | 13 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 2-Butanone | 78-93-3 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| 2-Hexanone | 591-78-6 | 0.50 U | 0.50 | 5.0 | 26 | ug/L |
| **4-Methyl-2-pentanone** | 108-10-1 | **0.97 J** | 0.80 | 5.0 | 51 | ug/L |
| Acetone | 67-64-1 | 1.2 U | 1.2 | 5.0 | 51 | ug/L |
| Acrylonitrile | 107-13-1 | 1.7 U | 1.7 | 5.0 | 102.5 | ug/L |
| Benzene | 71-43-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Bromochloromethane | 74-97-5 | 0.50 U | 0.50 | 1.0 | 3 | ug/L |
| Bromoform | 75-25-2 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Bromomethane | 74-83-9 | 0.60 U | 0.60 | 1.0 | 5.5 | ug/L |
| Carbon disulfide | 75-15-0 | 0.30 U | 0.30 | 5.0 | 51 | ug/L |
| Carbon tetrachloride | 56-23-5 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| Chlorobenzene | 108-90-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Chloroethane | 75-00-3 | 0.40 U | 0.40 | 1.0 | 5.5 | ug/L |
| Chloroform | 67-66-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Chloromethane | 74-87-3 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| **cis-1,2-Dichloroethene** | 156-59-2 | **1.7** | 0.20 | 1.0 | 3 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromomethane | 74-95-3 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |
| Ethylbenzene | 100-41-4 | 0.10 U | 0.10 | 1.0 | 3 | ug/L |
| Iodomethane | 74-88-4 | 0.80 U | 0.80 | 2.0 | 6 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 0.30 U | 0.30 | 2.0 | NE | ug/L |
| o-Xylene | 95-47-6 | 0.20 U | 0.20 | 1.0 | NE | ug/L |
| Styrene | 100-42-5 | 0.10 U | 0.10 | 1.0 | 5.5 | ug/L |
| Tetrachloroethene | 127-18-4 | 0.90 U | 0.90 | 1.0 | 3 | ug/L |
| Toluene | 108-88-3 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW-3 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-02 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J29002 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 156-60-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 0.50 U | 0.50 | 1.0 | 50.5 | ug/L |
| Trichloroethene | 79-01-6 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Vinyl acetate | 108-05-4 | 1.0 U | 1.0 | 2.0 | 26 | ug/L |
| **Vinyl chloride** | 75-01-4 | **1.1** | 0.30 | 1.0 | 5.5 | ug/L |

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# ANALYTICAL REPORT

Sample ID: MW-3
Lab #: C603724-02

Project: Central Carolina Tire Ph. I & II
Work Order #: C603724
Matrix: Ground Water

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | 7440-38-2 | **3.3 J** | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| **Barium** | 7440-39-3 | **34.1** | 0.20 | 10.0 | 60 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Cadmium | 7440-43-9 | 0.50 U | 0.50 | 1.00 | 1 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Chromium | 7440-47-3 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Lead | 7439-92-1 | 2.0 U | 2.0 | 10.0 | 6.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Mercury | 7439-97-6 | 0.11 U | 0.11 | 0.20 | 0.2 | ug/L | EPA 7470A | EPA 7470A | 6J23013 |
| Selenium | 7782-49-2 | 2.0 U | 2.0 | 10.0 | 10 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Silver | 7440-22-4 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW-4 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-03 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J29002 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 0.50 U | 0.50 | 1.0 | 8 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 0.60 U | 0.60 | 1.0 | 13 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 2-Butanone | 78-93-3 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| 2-Hexanone | 591-78-6 | 0.50 U | 0.50 | 5.0 | 26 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| Acetone | 67-64-1 | 1.2 U | 1.2 | 5.0 | 51 | ug/L |
| Acrylonitrile | 107-13-1 | 1.7 U | 1.7 | 5.0 | 102.5 | ug/L |
| Benzene | 71-43-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Bromochloromethane | 74-97-5 | 0.50 U | 0.50 | 1.0 | 3 | ug/L |
| Bromoform | 75-25-2 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Bromomethane | 74-83-9 | 0.60 U | 0.60 | 1.0 | 5.5 | ug/L |
| Carbon disulfide | 75-15-0 | 0.30 U | 0.30 | 5.0 | 51 | ug/L |
| Carbon tetrachloride | 56-23-5 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| Chlorobenzene | 108-90-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| **Chloroethane** | 75-00-3 | **1.6** | 0.40 | 1.0 | 5.5 | ug/L |
| Chloroform | 67-66-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Chloromethane | 74-87-3 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromomethane | 74-95-3 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |
| Ethylbenzene | 100-41-4 | 0.10 U | 0.10 | 1.0 | 3 | ug/L |
| Iodomethane | 74-88-4 | 0.80 U | 0.80 | 2.0 | 6 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 0.30 U | 0.30 | 2.0 | NE | ug/L |
| o-Xylene | 95-47-6 | 0.20 U | 0.20 | 1.0 | NE | ug/L |
| Styrene | 100-42-5 | 0.10 U | 0.10 | 1.0 | 5.5 | ug/L |
| Tetrachloroethene | 127-18-4 | 0.90 U | 0.90 | 1.0 | 3 | ug/L |
| Toluene | 108-88-3 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW-4 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-03 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J29002 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 156-60-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 0.50 U | 0.50 | 1.0 | 50.5 | ug/L |
| Trichloroethene | 79-01-6 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Vinyl acetate | 108-05-4 | 1.0 U | 1.0 | 2.0 | 26 | ug/L |
| Vinyl chloride | 75-01-4 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |

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# ANALYTICAL REPORT

Sample ID: MW-4
Lab #: C603724-03

Project: Central Carolina Tire Ph. I & II
Work Order #: C603724
Matrix: Ground Water

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | 7440-38-2 | **2.9 J** | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| **Barium** | 7440-39-3 | **20.0** | 0.20 | 10.0 | 60 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Cadmium | 7440-43-9 | 0.50 U | 0.50 | 1.00 | 1 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Chromium | 7440-47-3 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Lead | 7439-92-1 | 2.0 U | 2.0 | 10.0 | 6.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Mercury | 7439-97-6 | 0.11 U | 0.11 | 0.20 | 0.2 | ug/L | EPA 7470A | EPA 7470A | 6J23013 |
| Selenium | 7782-49-2 | 2.0 U | 2.0 | 10.0 | 10 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Silver | 7440-22-4 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW-5 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-04 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J29002 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 0.50 U | 0.50 | 1.0 | 8 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 0.60 U | 0.60 | 1.0 | 13 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 2-Butanone | 78-93-3 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| 2-Hexanone | 591-78-6 | 0.50 U | 0.50 | 5.0 | 26 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| Acetone | 67-64-1 | 1.2 U | 1.2 | 5.0 | 51 | ug/L |
| Acrylonitrile | 107-13-1 | 1.7 U | 1.7 | 5.0 | 102.5 | ug/L |
| Benzene | 71-43-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Bromochloromethane | 74-97-5 | 0.50 U | 0.50 | 1.0 | 3 | ug/L |
| Bromoform | 75-25-2 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Bromomethane | 74-83-9 | 0.60 U | 0.60 | 1.0 | 5.5 | ug/L |
| Carbon disulfide | 75-15-0 | 0.30 U | 0.30 | 5.0 | 51 | ug/L |
| Carbon tetrachloride | 56-23-5 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| Chlorobenzene | 108-90-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Chloroethane | 75-00-3 | 0.40 U | 0.40 | 1.0 | 5.5 | ug/L |
| Chloroform | 67-66-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Chloromethane | 74-87-3 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromomethane | 74-95-3 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |
| Ethylbenzene | 100-41-4 | 0.10 U | 0.10 | 1.0 | 3 | ug/L |
| Iodomethane | 74-88-4 | 0.80 U | 0.80 | 2.0 | 6 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 0.30 U | 0.30 | 2.0 | NE | ug/L |
| o-Xylene | 95-47-6 | 0.20 U | 0.20 | 1.0 | NE | ug/L |
| Styrene | 100-42-5 | 0.10 U | 0.10 | 1.0 | 5.5 | ug/L |
| Tetrachloroethene | 127-18-4 | 0.90 U | 0.90 | 1.0 | 3 | ug/L |
| Toluene | 108-88-3 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW-5 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-04 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J29002 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 156-60-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 0.50 U | 0.50 | 1.0 | 50.5 | ug/L |
| Trichloroethene | 79-01-6 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Vinyl acetate | 108-05-4 | 1.0 U | 1.0 | 2.0 | 26 | ug/L |
| Vinyl chloride | 75-01-4 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |

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# ANALYTICAL REPORT

Sample ID: MW-5
Lab #: C603724-04

Project: Central Carolina Tire Ph. I & II
Work Order #: C603724
Matrix: Ground Water

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 7440-38-2 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| **Barium** | 7440-39-3 | **19.3** | 0.20 | 10.0 | 60 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Cadmium | 7440-43-9 | 0.50 U | 0.50 | 1.00 | 1 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Chromium | 7440-47-3 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Lead | 7439-92-1 | 2.0 U | 2.0 | 10.0 | 6.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Mercury | 7439-97-6 | 0.11 U | 0.11 | 0.20 | 0.2 | ug/L | EPA 7470A | EPA 7470A | 6J23013 |
| Selenium | 7782-49-2 | 2.0 U | 2.0 | 10.0 | 10 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Silver | 7440-22-4 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW-6 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-05 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J29002 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 0.50 U | 0.50 | 1.0 | 8 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 0.60 U | 0.60 | 1.0 | 13 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 2-Butanone | 78-93-3 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| 2-Hexanone | 591-78-6 | 0.50 U | 0.50 | 5.0 | 26 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| Acetone | 67-64-1 | 1.2 U | 1.2 | 5.0 | 51 | ug/L |
| Acrylonitrile | 107-13-1 | 1.7 U | 1.7 | 5.0 | 102.5 | ug/L |
| **Benzene** | 71-43-2 | **1.4** | 0.20 | 1.0 | 3 | ug/L |
| Bromochloromethane | 74-97-5 | 0.50 U | 0.50 | 1.0 | 3 | ug/L |
| Bromoform | 75-25-2 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Bromomethane | 74-83-9 | 0.60 U | 0.60 | 1.0 | 5.5 | ug/L |
| Carbon disulfide | 75-15-0 | 0.30 U | 0.30 | 5.0 | 51 | ug/L |
| Carbon tetrachloride | 56-23-5 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| Chlorobenzene | 108-90-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Chloroethane | 75-00-3 | 0.40 U | 0.40 | 1.0 | 5.5 | ug/L |
| Chloroform | 67-66-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Chloromethane | 74-87-3 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromomethane | 74-95-3 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |
| Ethylbenzene | 100-41-4 | 0.10 U | 0.10 | 1.0 | 3 | ug/L |
| Iodomethane | 74-88-4 | 0.80 U | 0.80 | 2.0 | 6 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 0.30 U | 0.30 | 2.0 | NE | ug/L |
| o-Xylene | 95-47-6 | 0.20 U | 0.20 | 1.0 | NE | ug/L |
| Styrene | 100-42-5 | 0.10 U | 0.10 | 1.0 | 5.5 | ug/L |
| Tetrachloroethene | 127-18-4 | 0.90 U | 0.90 | 1.0 | 3 | ug/L |
| Toluene | 108-88-3 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW-6 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-05 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J29002 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 156-60-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 0.50 U | 0.50 | 1.0 | 50.5 | ug/L |
| Trichloroethene | 79-01-6 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Vinyl acetate | 108-05-4 | 1.0 U | 1.0 | 2.0 | 26 | ug/L |
| Vinyl chloride | 75-01-4 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |

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# ANALYTICAL REPORT

Sample ID: MW-6
Lab #: C603724-05

Project: Central Carolina Tire Ph. I & II
Work Order #: C603724
Matrix: Ground Water

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | 7440-38-2 | **2.8 J** | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| **Barium** | 7440-39-3 | **29.9** | 0.20 | 10.0 | 60 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Cadmium | 7440-43-9 | 0.50 U | 0.50 | 1.00 | 1 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Chromium | 7440-47-3 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Lead | 7439-92-1 | 2.0 U | 2.0 | 10.0 | 6.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Mercury | 7439-97-6 | 0.11 U | 0.11 | 0.20 | 0.2 | ug/L | EPA 7470A | EPA 7470A | 6J23013 |
| Selenium | 7782-49-2 | 2.0 U | 2.0 | 10.0 | 10 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Silver | 7440-22-4 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW-7 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-06 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J29002 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 0.50 U | 0.50 | 1.0 | 8 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 0.60 U | 0.60 | 1.0 | 13 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 2-Butanone | 78-93-3 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| 2-Hexanone | 591-78-6 | 0.50 U | 0.50 | 5.0 | 26 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| Acetone | 67-64-1 | 1.2 U | 1.2 | 5.0 | 51 | ug/L |
| Acrylonitrile | 107-13-1 | 1.7 U | 1.7 | 5.0 | 102.5 | ug/L |
| Benzene | 71-43-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Bromochloromethane | 74-97-5 | 0.50 U | 0.50 | 1.0 | 3 | ug/L |
| Bromoform | 75-25-2 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Bromomethane | 74-83-9 | 0.60 U | 0.60 | 1.0 | 5.5 | ug/L |
| Carbon disulfide | 75-15-0 | 0.30 U | 0.30 | 5.0 | 51 | ug/L |
| Carbon tetrachloride | 56-23-5 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| Chlorobenzene | 108-90-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Chloroethane | 75-00-3 | 0.40 U | 0.40 | 1.0 | 5.5 | ug/L |
| Chloroform | 67-66-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Chloromethane | 74-87-3 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromomethane | 74-95-3 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |
| Ethylbenzene | 100-41-4 | 0.10 U | 0.10 | 1.0 | 3 | ug/L |
| Iodomethane | 74-88-4 | 0.80 U | 0.80 | 2.0 | 6 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 0.30 U | 0.30 | 2.0 | NE | ug/L |
| o-Xylene | 95-47-6 | 0.20 U | 0.20 | 1.0 | NE | ug/L |
| Styrene | 100-42-5 | 0.10 U | 0.10 | 1.0 | 5.5 | ug/L |
| Tetrachloroethene | 127-18-4 | 0.90 U | 0.90 | 1.0 | 3 | ug/L |
| Toluene | 108-88-3 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW-7 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-06 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J29002 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 156-60-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 0.50 U | 0.50 | 1.0 | 50.5 | ug/L |
| Trichloroethene | 79-01-6 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Vinyl acetate | 108-05-4 | 1.0 U | 1.0 | 2.0 | 26 | ug/L |
| Vinyl chloride | 75-01-4 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |

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# ANALYTICAL REPORT

Sample ID: MW-7
Lab #: C603724-06

Project: Central Carolina Tire Ph. I & II
Work Order #: C603724
Matrix: Ground Water

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 7440-38-2 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| **Barium** | 7440-39-3 | **73.6** | 0.20 | 10.0 | 60 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Cadmium | 7440-43-9 | 0.50 U | 0.50 | 1.00 | 1 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Chromium | 7440-47-3 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| **Lead** | 7439-92-1 | **2.1** J | 2.0 | 10.0 | 6.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Mercury | 7439-97-6 | 0.11 U | 0.11 | 0.20 | 0.2 | ug/L | EPA 7470A | EPA 7470A | 6J23013 |
| Selenium | 7782-49-2 | 2.0 U | 2.0 | 10.0 | 10 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Silver | 7440-22-4 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW-8 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-07 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J30008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 0.50 U | 0.50 | 1.0 | 8 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 0.60 U | 0.60 | 1.0 | 13 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 2-Butanone | 78-93-3 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| 2-Hexanone | 591-78-6 | 0.50 U | 0.50 | 5.0 | 26 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| Acetone | 67-64-1 | 1.2 U | 1.2 | 5.0 | 51 | ug/L |
| Acrylonitrile | 107-13-1 | 1.7 U | 1.7 | 5.0 | 102.5 | ug/L |
| Benzene | 71-43-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Bromochloromethane | 74-97-5 | 0.50 U | 0.50 | 1.0 | 3 | ug/L |
| Bromoform | 75-25-2 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Bromomethane | 74-83-9 | 0.60 U | 0.60 | 1.0 | 5.5 | ug/L |
| Carbon disulfide | 75-15-0 | 0.30 U | 0.30 | 5.0 | 51 | ug/L |
| Carbon tetrachloride | 56-23-5 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| Chlorobenzene | 108-90-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Chloroethane | 75-00-3 | 0.40 U | 0.40 | 1.0 | 5.5 | ug/L |
| Chloroform | 67-66-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Chloromethane | 74-87-3 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromomethane | 74-95-3 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |
| Ethylbenzene | 100-41-4 | 0.10 U | 0.10 | 1.0 | 3 | ug/L |
| Iodomethane | 74-88-4 | 0.80 U | 0.80 | 2.0 | 6 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 0.30 U | 0.30 | 2.0 | NE | ug/L |
| o-Xylene | 95-47-6 | 0.20 U | 0.20 | 1.0 | NE | ug/L |
| Styrene | 100-42-5 | 0.10 U | 0.10 | 1.0 | 5.5 | ug/L |
| **Tetrachloroethene** | 127-18-4 | **1.8** | 0.90 | 1.0 | 3 | ug/L |
| Toluene | 108-88-3 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW-8 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-07 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J30008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 156-60-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 0.50 U | 0.50 | 1.0 | 50.5 | ug/L |
| Trichloroethene | 79-01-6 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Vinyl acetate | 108-05-4 | 1.0 U | 1.0 | 2.0 | 26 | ug/L |
| Vinyl chloride | 75-01-4 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |

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# ANALYTICAL REPORT

Sample ID: MW-8
Lab #: C603724-07

Project: Central Carolina Tire Ph. I & II
Work Order #: C603724
Matrix: Ground Water

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 7440-38-2 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| **Barium** | 7440-39-3 | **42.5** | 0.20 | 10.0 | 60 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| **Cadmium** | 7440-43-9 | **1.10** | 0.50 | 1.00 | 1 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Chromium | 7440-47-3 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Lead | 7439-92-1 | 2.0 U | 2.0 | 10.0 | 6.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Mercury | 7439-97-6 | 0.11 U | 0.11 | 0.20 | 0.2 | ug/L | EPA 7470A | EPA 7470A | 6J23013 |
| Selenium | 7782-49-2 | 2.0 U | 2.0 | 10.0 | 10 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Silver | 7440-22-4 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW-9 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-08 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J30008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 0.50 U | 0.50 | 1.0 | 8 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 0.60 U | 0.60 | 1.0 | 13 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 2-Butanone | 78-93-3 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| 2-Hexanone | 591-78-6 | 0.50 U | 0.50 | 5.0 | 26 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| Acetone | 67-64-1 | 1.2 U | 1.2 | 5.0 | 51 | ug/L |
| Acrylonitrile | 107-13-1 | 1.7 U | 1.7 | 5.0 | 102.5 | ug/L |
| Benzene | 71-43-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Bromochloromethane | 74-97-5 | 0.50 U | 0.50 | 1.0 | 3 | ug/L |
| Bromoform | 75-25-2 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Bromomethane | 74-83-9 | 0.60 U | 0.60 | 1.0 | 5.5 | ug/L |
| Carbon disulfide | 75-15-0 | 0.30 U | 0.30 | 5.0 | 51 | ug/L |
| Carbon tetrachloride | 56-23-5 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| Chlorobenzene | 108-90-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Chloroethane | 75-00-3 | 0.40 U | 0.40 | 1.0 | 5.5 | ug/L |
| Chloroform | 67-66-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Chloromethane | 74-87-3 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromomethane | 74-95-3 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |
| Ethylbenzene | 100-41-4 | 0.10 U | 0.10 | 1.0 | 3 | ug/L |
| Iodomethane | 74-88-4 | 0.80 U | 0.80 | 2.0 | 6 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 0.30 U | 0.30 | 2.0 | NE | ug/L |
| o-Xylene | 95-47-6 | 0.20 U | 0.20 | 1.0 | NE | ug/L |
| Styrene | 100-42-5 | 0.10 U | 0.10 | 1.0 | 5.5 | ug/L |
| Tetrachloroethene | 127-18-4 | 0.90 U | 0.90 | 1.0 | 3 | ug/L |
| Toluene | 108-88-3 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW-9 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-08 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J30008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 156-60-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 0.50 U | 0.50 | 1.0 | 50.5 | ug/L |
| Trichloroethene | 79-01-6 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Vinyl acetate | 108-05-4 | 1.0 U | 1.0 | 2.0 | 26 | ug/L |
| Vinyl chloride | 75-01-4 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |

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# ANALYTICAL REPORT

Sample ID: MW-9
Lab #: C603724-08

Project: Central Carolina Tire Ph. I & II
Work Order #: C603724
Matrix: Ground Water

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | 7440-38-2 | **2.6 J** | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| **Barium** | 7440-39-3 | **310** | 0.20 | 10.0 | 60 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Cadmium | 7440-43-9 | 0.50 U | 0.50 | 1.00 | 1 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Chromium | 7440-47-3 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Lead | 7439-92-1 | 2.0 U | 2.0 | 10.0 | 6.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Mercury | 7439-97-6 | 0.11 U | 0.11 | 0.20 | 0.2 | ug/L | EPA 7470A | EPA 7470A | 6J23013 |
| **Selenium** | 7782-49-2 | **2.2 J** | 2.0 | 10.0 | 10 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Silver | 7440-22-4 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | SW-1 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-09 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J30008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 0.50 U | 0.50 | 1.0 | 8 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 0.60 U | 0.60 | 1.0 | 13 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 2-Butanone | 78-93-3 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| 2-Hexanone | 591-78-6 | 0.50 U | 0.50 | 5.0 | 26 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| Acetone | 67-64-1 | 1.2 U | 1.2 | 5.0 | 51 | ug/L |
| Acrylonitrile | 107-13-1 | 1.7 U | 1.7 | 5.0 | 102.5 | ug/L |
| Benzene | 71-43-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Bromochloromethane | 74-97-5 | 0.50 U | 0.50 | 1.0 | 3 | ug/L |
| Bromoform | 75-25-2 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Bromomethane | 74-83-9 | 0.60 U | 0.60 | 1.0 | 5.5 | ug/L |
| Carbon disulfide | 75-15-0 | 0.30 U | 0.30 | 5.0 | 51 | ug/L |
| Carbon tetrachloride | 56-23-5 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| Chlorobenzene | 108-90-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Chloroethane | 75-00-3 | 0.40 U | 0.40 | 1.0 | 5.5 | ug/L |
| Chloroform | 67-66-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Chloromethane | 74-87-3 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromomethane | 74-95-3 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |
| Ethylbenzene | 100-41-4 | 0.10 U | 0.10 | 1.0 | 3 | ug/L |
| Iodomethane | 74-88-4 | 0.80 U | 0.80 | 2.0 | 6 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 0.30 U | 0.30 | 2.0 | NE | ug/L |
| o-Xylene | 95-47-6 | 0.20 U | 0.20 | 1.0 | NE | ug/L |
| Styrene | 100-42-5 | 0.10 U | 0.10 | 1.0 | 5.5 | ug/L |
| Tetrachloroethene | 127-18-4 | 0.90 U | 0.90 | 1.0 | 3 | ug/L |
| Toluene | 108-88-3 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | SW-1 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-09 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J30008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 156-60-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 0.50 U | 0.50 | 1.0 | 50.5 | ug/L |
| Trichloroethene | 79-01-6 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Vinyl acetate | 108-05-4 | 1.0 U | 1.0 | 2.0 | 26 | ug/L |
| Vinyl chloride | 75-01-4 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |

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# ANALYTICAL REPORT

Sample ID: SW-1
Lab #: C603724-09

Project: Central Carolina Tire Ph. I & II
Work Order #: C603724
Matrix: Ground Water

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | 7440-38-2 | **2.2 J** | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| **Barium** | 7440-39-3 | **17.6** | 0.20 | 10.0 | 60 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Cadmium | 7440-43-9 | 0.50 U | 0.50 | 1.00 | 1 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Chromium | 7440-47-3 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Lead | 7439-92-1 | 2.0 U | 2.0 | 10.0 | 6.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Mercury | 7439-97-6 | 0.11 U | 0.11 | 0.20 | 0.2 | ug/L | EPA 7470A | EPA 7470A | 6J23013 |
| **Selenium** | 7782-49-2 | **3.7 J** | 2.0 | 10.0 | 10 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Silver | 7440-22-4 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | SW-2 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-10 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J30008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 0.50 U | 0.50 | 1.0 | 8 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 0.60 U | 0.60 | 1.0 | 13 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 2-Butanone | 78-93-3 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| 2-Hexanone | 591-78-6 | 0.50 U | 0.50 | 5.0 | 26 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| Acetone | 67-64-1 | 1.2 U | 1.2 | 5.0 | 51 | ug/L |
| Acrylonitrile | 107-13-1 | 1.7 U | 1.7 | 5.0 | 102.5 | ug/L |
| Benzene | 71-43-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Bromochloromethane | 74-97-5 | 0.50 U | 0.50 | 1.0 | 3 | ug/L |
| Bromoform | 75-25-2 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Bromomethane | 74-83-9 | 0.60 U | 0.60 | 1.0 | 5.5 | ug/L |
| Carbon disulfide | 75-15-0 | 0.30 U | 0.30 | 5.0 | 51 | ug/L |
| Carbon tetrachloride | 56-23-5 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| Chlorobenzene | 108-90-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Chloroethane | 75-00-3 | 0.40 U | 0.40 | 1.0 | 5.5 | ug/L |
| Chloroform | 67-66-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Chloromethane | 74-87-3 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromomethane | 74-95-3 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |
| Ethylbenzene | 100-41-4 | 0.10 U | 0.10 | 1.0 | 3 | ug/L |
| Iodomethane | 74-88-4 | 0.80 U | 0.80 | 2.0 | 6 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 0.30 U | 0.30 | 2.0 | NE | ug/L |
| o-Xylene | 95-47-6 | 0.20 U | 0.20 | 1.0 | NE | ug/L |
| Styrene | 100-42-5 | 0.10 U | 0.10 | 1.0 | 5.5 | ug/L |
| Tetrachloroethene | 127-18-4 | 0.90 U | 0.90 | 1.0 | 3 | ug/L |
| Toluene | 108-88-3 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | SW-2 | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-10 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J30008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 156-60-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 0.50 U | 0.50 | 1.0 | 50.5 | ug/L |
| Trichloroethene | 79-01-6 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Vinyl acetate | 108-05-4 | 1.0 U | 1.0 | 2.0 | 26 | ug/L |
| Vinyl chloride | 75-01-4 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |

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# ANALYTICAL REPORT

Sample ID: SW-2
Lab #: C603724-10

Project: Central Carolina Tire Ph. I & II
Work Order #: C603724
Matrix: Ground Water

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | 7440-38-2 | **2.9 J** | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| **Barium** | 7440-39-3 | **21.1** | 0.20 | 10.0 | 60 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Cadmium | 7440-43-9 | 0.50 U | 0.50 | 1.00 | 1 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Chromium | 7440-47-3 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Lead | 7439-92-1 | 2.0 U | 2.0 | 10.0 | 6.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| **Mercury** | 7439-97-6 | **0.15 J** | 0.11 | 0.20 | 0.2 | ug/L | EPA 7470A | EPA 7470A | 6J23013 |
| Selenium | 7782-49-2 | 2.0 U | 2.0 | 10.0 | 10 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |
| Silver | 7440-22-4 | 2.0 U | 2.0 | 10.0 | 7.5 | ug/L | EPA 6010B | EPA 3005A | 6J20007 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | Trip Blank | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-11 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J30008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 0.50 U | 0.50 | 1.0 | 8 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 0.60 U | 0.60 | 1.0 | 13 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| **2-Butanone** | 78-93-3 | **4.0 J** | 0.80 | 5.0 | 51 | ug/L |
| 2-Hexanone | 591-78-6 | 0.50 U | 0.50 | 5.0 | 26 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 0.80 U | 0.80 | 5.0 | 51 | ug/L |
| **Acetone** | 67-64-1 | **5.1** | 1.2 | 5.0 | 51 | ug/L |
| Acrylonitrile | 107-13-1 | 1.7 U | 1.7 | 5.0 | 102.5 | ug/L |
| Benzene | 71-43-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Bromochloromethane | 74-97-5 | 0.50 U | 0.50 | 1.0 | 3 | ug/L |
| Bromoform | 75-25-2 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Bromomethane | 74-83-9 | 0.60 U | 0.60 | 1.0 | 5.5 | ug/L |
| Carbon disulfide | 75-15-0 | 0.30 U | 0.30 | 5.0 | 51 | ug/L |
| Carbon tetrachloride | 56-23-5 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| Chlorobenzene | 108-90-7 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Chloroethane | 75-00-3 | 0.40 U | 0.40 | 1.0 | 5.5 | ug/L |
| Chloroform | 67-66-3 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Chloromethane | 74-87-3 | 0.20 U | 0.20 | 1.0 | 5.5 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromochloromethane | 124-48-1 | 0.30 U | 0.30 | 1.0 | 3 | ug/L |
| Dibromomethane | 74-95-3 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |
| Ethylbenzene | 100-41-4 | 0.10 U | 0.10 | 1.0 | 3 | ug/L |
| Iodomethane | 74-88-4 | 0.80 U | 0.80 | 2.0 | 6 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 0.30 U | 0.30 | 2.0 | NE | ug/L |
| o-Xylene | 95-47-6 | 0.20 U | 0.20 | 1.0 | NE | ug/L |
| Styrene | 100-42-5 | 0.10 U | 0.10 | 1.0 | 5.5 | ug/L |
| Tetrachloroethene | 127-18-4 | 0.90 U | 0.90 | 1.0 | 3 | ug/L |
| Toluene | 108-88-3 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | Trip Blank | Project: | Central Carolina Tire Ph. I & II |
| Lab #: | C603724-11 | Work Order #: | C603724 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 10/30/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6J30008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MDL | MRL | NC SWS RL | Units |
|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 156-60-5 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 U | 0.20 | 0.20 | 5.5 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 0.50 U | 0.50 | 1.0 | 50.5 | ug/L |
| Trichloroethene | 79-01-6 | 0.40 U | 0.40 | 1.0 | 3 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 0.20 U | 0.20 | 1.0 | 3 | ug/L |
| Vinyl acetate | 108-05-4 | 1.0 U | 1.0 | 2.0 | 26 | ug/L |
| Vinyl chloride | 75-01-4 | 0.30 U | 0.30 | 1.0 | 5.5 | ug/L |

# QUALITY CONTROL

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Sanple Notes |
|---|---|---|---|---|---|---|---|---|---|---|

**Volatile Organic Compounds by GCMS - Quality Control**

*Batch 6J29002 - EPA 5030B_MS*

**Blank (6J29002-BLK1)** Prepared: 10/29/2006 10:29 Analyzed: 10/30/2006 00:51

| | | | |
|---|---|---|---|
| Acetone | 1.2 U | 5.0 | ug/L |
| Acrylonitrile | 1.7 U | 5.0 | ug/L |
| Benzene | 0.20 U | 1.0 | ug/L |
| 2-Butanone | 0.80 U | 5.0 | ug/L |
| 2-Hexanone | 0.50 U | 5.0 | ug/L |
| Iodomethane | 0.80 U | 2.0 | ug/L |
| Tetrachloroethene | 0.90 U | 1.0 | ug/L |
| 4-Methyl-2-pentanone | 0.80 U | 5.0 | ug/L |
| Bromochloromethane | 0.50 U | 1.0 | ug/L |
| Trichloroethene | 0.40 U | 1.0 | ug/L |
| Bromodichloromethane | 0.20 U | 0.40 | ug/L |
| Bromoform | 0.30 U | 1.0 | ug/L |
| Bromomethane | 0.60 U | 1.0 | ug/L |
| Carbon disulfide | 0.30 U | 5.0 | ug/L |
| Carbon tetrachloride | 0.20 U | 1.0 | ug/L |
| Chlorobenzene | 0.30 U | 1.0 | ug/L |
| Chloroethane | 0.40 U | 1.0 | ug/L |
| Chloroform | 0.40 U | 1.0 | ug/L |
| Chloromethane | 0.20 U | 1.0 | ug/L |
| Dibromochloromethane | 0.30 U | 1.0 | ug/L |
| 1,2-Dibromo-3-chloropropane | 0.60 U | 1.0 | ug/L |
| 1,2-Dibromoethane | 0.40 U | 1.0 | ug/L |
| Dibromomethane | 0.30 U | 1.0 | ug/L |
| 1,2-Dichlorobenzene | 0.30 U | 1.0 | ug/L |
| 1,4-Dichlorobenzene | 0.30 U | 1.0 | ug/L |
| trans-1,4-Dichloro-2-butene | 0.50 U | 1.0 | ug/L |
| 1,1-Dichloroethane | 0.40 U | 1.0 | ug/L |
| 1,2-Dichloroethane | 0.40 U | 1.0 | ug/L |
| 1,1-Dichloroethene | 0.40 U | 1.0 | ug/L |
| cis-1,2-Dichloroethene | 0.20 U | 1.0 | ug/L |
| trans-1,2-Dichloroethene | 0.40 U | 1.0 | ug/L |
| 1,2-Dichloropropane | 0.20 U | 1.0 | ug/L |
| cis-1,3-Dichloropropene | 0.20 U | 0.20 | ug/L |
| trans-1,3-Dichloropropene | 0.20 U | 0.20 | ug/L |
| Ethylbenzene | 0.10 U | 1.0 | ug/L |
| Methylene chloride | 0.40 U | 2.0 | ug/L |
| Styrene | 0.10 U | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | 0.20 U | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | 0.30 U | 1.0 | ug/L |
| Toluene | 0.20 U | 1.0 | ug/L |
| 1,1,1-Trichloroethane | 0.20 U | 1.0 | ug/L |
| 1,1,2-Trichloroethane | 0.40 U | 1.0 | ug/L |
| Trichlorofluoromethane | 0.20 U | 1.0 | ug/L |
| 1,2,3-Trichloropropane | 0.50 U | 1.0 | ug/L |
| Vinyl acetate | 1.0 U | 2.0 | ug/L |

## QUALITY CONTROL

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Sanple Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by GCMS - Quality Control** | | | | | | | | | | |
| *Batch 6J29002 - EPA 5030B_MS* | | | | | | | | | | |
| **Blank (6J29002-BLK1) Continued** | | | | Prepared: 10/29/2006 10:29 Analyzed: 10/30/2006 00:51 | | | | | | |
| Vinyl chloride | 0.30 U | 1.0 | ug/L | | | | | | | |
| m,p-Xylenes | 0.30 U | 2.0 | ug/L | | | | | | | |
| o-Xylene | 0.20 U | 1.0 | ug/L | | | | | | | |
| **LCS (6J29002-BS1)** | | | | Prepared: 10/29/2006 10:29 Analyzed: 10/30/2006 09:44 | | | | | | |
| Benzene | 22 | 1.0 | ug/L | 20.0 | | 110 | 69-115 | | | |
| Trichloroethene | 19 | 1.0 | ug/L | 20.0 | | 93 | 74-118 | | | |
| Chlorobenzene | 22 | 1.0 | ug/L | 20.0 | | 109 | 76-118 | | | |
| 1,1-Dichloroethene | 24 | 1.0 | ug/L | 20.0 | | 122 | 64-139 | | | |
| Toluene | 20 | 1.0 | ug/L | 20.0 | | 100 | 77-117 | | | |
| **Matrix Spike (6J29002-MS1)** | | **Source: C603697-02** | | Prepared: 10/29/2006 10:29 Analyzed: 10/30/2006 10:10 | | | | | | |
| Benzene | 25 | 1.0 | ug/L | 20.0 | 2.2 | 112 | 53-150 | | | |
| Trichloroethene | 53 | 1.0 | ug/L | 20.0 | 36 | 86 | 64-124 | | | |
| Chlorobenzene | 22 | 1.0 | ug/L | 20.0 | 0.30 U | 111 | 44-128 | | | |
| 1,1-Dichloroethene | 24 | 1.0 | ug/L | 20.0 | 0.40 U | 121 | 36-177 | | | |
| Toluene | 20 | 1.0 | ug/L | 20.0 | 0.20 U | 102 | 40-161 | | | |
| **Matrix Spike Dup (6J29002-MSD1)** | | **Source: C603697-02** | | Prepared: 10/29/2006 10:29 Analyzed: 10/30/2006 10:35 | | | | | | |
| Benzene | 25 | 1.0 | ug/L | 20.0 | 2.2 | 114 | 53-150 | 1 | 23 | |
| Trichloroethene | 53 | 1.0 | ug/L | 20.0 | 36 | 87 | 64-124 | 0.3 | 25 | |
| Chlorobenzene | 22 | 1.0 | ug/L | 20.0 | 0.30 U | 108 | 44-128 | 3 | 22 | |
| 1,1-Dichloroethene | 24 | 1.0 | ug/L | 20.0 | 0.40 U | 120 | 36-177 | 0.5 | 30 | |
| Toluene | 20 | 1.0 | ug/L | 20.0 | 0.20 U | 99 | 40-161 | 4 | 23 | |
| *Batch 6J30008 - EPA 5030B_MS* | | | | | | | | | | |
| **Blank (6J30008-BLK1)** | | | | Prepared: 10/30/2006 08:05 Analyzed: 10/30/2006 12:48 | | | | | | |
| Acetone | 1.2 U | 5.0 | ug/L | | | | | | | |
| Acrylonitrile | 1.7 U | 5.0 | ug/L | | | | | | | |
| Benzene | 0.20 U | 1.0 | ug/L | | | | | | | |
| 2-Butanone | 0.80 U | 5.0 | ug/L | | | | | | | |
| 2-Hexanone | 0.50 U | 5.0 | ug/L | | | | | | | |
| Iodomethane | 0.80 U | 2.0 | ug/L | | | | | | | |
| Tetrachloroethene | 0.90 U | 1.0 | ug/L | | | | | | | |
| 4-Methyl-2-pentanone | 0.80 U | 5.0 | ug/L | | | | | | | |
| Bromochloromethane | 0.50 U | 1.0 | ug/L | | | | | | | |
| Trichloroethene | 0.40 U | 1.0 | ug/L | | | | | | | |
| Bromodichloromethane | 0.20 U | 0.40 | ug/L | | | | | | | |
| Bromoform | 0.30 U | 1.0 | ug/L | | | | | | | |
| Bromomethane | 0.60 U | 1.0 | ug/L | | | | | | | |
| Carbon disulfide | 0.30 U | 5.0 | ug/L | | | | | | | |
| Carbon tetrachloride | 0.20 U | 1.0 | ug/L | | | | | | | |
| Chlorobenzene | 0.30 U | 1.0 | ug/L | | | | | | | |
| Chloroethane | 0.40 U | 1.0 | ug/L | | | | | | | |
| Chloroform | 0.40 U | 1.0 | ug/L | | | | | | | |
| Chloromethane | 0.20 U | 1.0 | ug/L | | | | | | | |
| Dibromochloromethane | 0.30 U | 1.0 | ug/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 0.60 U | 1.0 | ug/L | | | | | | | |

# QUALITY CONTROL

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Sanple Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by GCMS - Quality Control** | | | | | | | | | | |
| *Batch 6J30008 - EPA 5030B_MS* | | | | | | | | | | |
| **Blank (6J30008-BLK1) Continued** | | | | Prepared: 10/30/2006 08:05 Analyzed: 10/30/2006 12:48 | | | | | | |
| 1,2-Dibromoethane | 0.40 U | 1.0 | ug/L | | | | | | | |
| Dibromomethane | 0.30 U | 1.0 | ug/L | | | | | | | |
| 1,2-Dichlorobenzene | 0.30 U | 1.0 | ug/L | | | | | | | |
| 1,4-Dichlorobenzene | 0.30 U | 1.0 | ug/L | | | | | | | |
| trans-1,4-Dichloro-2-butene | 0.50 U | 1.0 | ug/L | | | | | | | |
| 1,1-Dichloroethane | 0.40 U | 1.0 | ug/L | | | | | | | |
| 1,2-Dichloroethane | 0.40 U | 1.0 | ug/L | | | | | | | |
| 1,1-Dichloroethene | 0.40 U | 1.0 | ug/L | | | | | | | |
| cis-1,2-Dichloroethene | 0.20 U | 1.0 | ug/L | | | | | | | |
| trans-1,2-Dichloroethene | 0.40 U | 1.0 | ug/L | | | | | | | |
| 1,2-Dichloropropane | 0.20 U | 1.0 | ug/L | | | | | | | |
| cis-1,3-Dichloropropene | 0.20 U | 0.20 | ug/L | | | | | | | |
| trans-1,3-Dichloropropene | 0.20 U | 0.20 | ug/L | | | | | | | |
| Ethylbenzene | 0.10 U | 1.0 | ug/L | | | | | | | |
| Methylene chloride | 0.40 U | 2.0 | ug/L | | | | | | | |
| Styrene | 0.10 U | 1.0 | ug/L | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 0.20 U | 1.0 | ug/L | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 0.30 U | 1.0 | ug/L | | | | | | | |
| Toluene | 0.20 U | 1.0 | ug/L | | | | | | | |
| 1,1,1-Trichloroethane | 0.20 U | 1.0 | ug/L | | | | | | | |
| 1,1,2-Trichloroethane | 0.40 U | 1.0 | ug/L | | | | | | | |
| Trichlorofluoromethane | 0.20 U | 1.0 | ug/L | | | | | | | |
| 1,2,3-Trichloropropane | 0.50 U | 1.0 | ug/L | | | | | | | |
| Vinyl acetate | 1.0 U | 2.0 | ug/L | | | | | | | |
| Vinyl chloride | 0.30 U | 1.0 | ug/L | | | | | | | |
| m,p-Xylenes | 0.30 U | 2.0 | ug/L | | | | | | | |
| o-Xylene | 0.20 U | 1.0 | ug/L | | | | | | | |
| **LCS (6J30008-BS1)** | | | | Prepared: 10/30/2006 08:05 Analyzed: 10/30/2006 20:29 | | | | | | |
| Benzene | 22 | 1.0 | ug/L | 20.0 | | 112 | 69-115 | | | |
| Trichloroethene | 19 | 1.0 | ug/L | 20.0 | | 93 | 74-118 | | | |
| Chlorobenzene | 22 | 1.0 | ug/L | 20.0 | | 110 | 76-118 | | | |
| 1,1-Dichloroethene | 24 | 1.0 | ug/L | 20.0 | | 121 | 64-139 | | | |
| Toluene | 21 | 1.0 | ug/L | 20.0 | | 103 | 77-117 | | | |
| **Matrix Spike (6J30008-MS1)** | | **Source: C603802-01** | | Prepared: 10/30/2006 08:05 Analyzed: 10/30/2006 20:54 | | | | | | |
| Benzene | 23 | 1.0 | ug/L | 20.0 | 0.20 U | 115 | 53-150 | | | |
| Trichloroethene | 18 | 1.0 | ug/L | 20.0 | 0.40 U | 91 | 64-124 | | | |
| Chlorobenzene | 23 | 1.0 | ug/L | 20.0 | 0.30 U | 115 | 44-128 | | | |
| 1,1-Dichloroethene | 24 | 1.0 | ug/L | 20.0 | 0.40 U | 121 | 36-177 | | | |
| Toluene | 21 | 1.0 | ug/L | 20.0 | 0.20 U | 106 | 40-161 | | | |
| **Matrix Spike Dup (6J30008-MSD1)** | | **Source: C603802-01** | | Prepared: 10/30/2006 08:05 Analyzed: 10/30/2006 21:20 | | | | | | |
| Benzene | 24 | 1.0 | ug/L | 20.0 | 0.20 U | 118 | 53-150 | 3 | 23 | |
| Trichloroethene | 19 | 1.0 | ug/L | 20.0 | 0.40 U | 95 | 64-124 | 4 | 25 | |
| Chlorobenzene | 23 | 1.0 | ug/L | 20.0 | 0.30 U | 113 | 44-128 | 2 | 22 | |
| 1,1-Dichloroethene | 24 | 1.0 | ug/L | 20.0 | 0.40 U | 119 | 36-177 | 1 | 30 | |

# QUALITY CONTROL

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Sanple Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by GCMS - Quality Control** | | | | | | | | | | |
| *Batch 6J30008 - EPA 5030B_MS* | | | | | | | | | | |
| **Matrix Spike Dup (6J30008-MSD1) Continued** | | **Source: C603802-01** | | Prepared: 10/30/2006 08:05 Analyzed: 10/30/2006 21:20 | | | | | | |
| Toluene | 21 | 1.0 | ug/L | 20.0 | 0.20 U | 107 | 40-161 | 0.9 | 23 | |
| **Metals by EPA 6000/7000 Series Methods - Quality Control** | | | | | | | | | | |
| *Batch 6J20007 - EPA 3005A* | | | | | | | | | | |
| **Blank (6J20007-BLK1)** | | | | Prepared: 10/20/2006 09:05 Analyzed: 10/23/2006 10:40 | | | | | | |
| Arsenic | 2.00 J | 10.0 | ug/L | | | | | | | |
| Barium | 0.300 J | 10.0 | ug/L | | | | | | | |
| Cadmium | 0.50 U | 1.00 | ug/L | | | | | | | |
| Chromium | 2.0 U | 10.0 | ug/L | | | | | | | |
| Lead | 2.0 U | 10.0 | ug/L | | | | | | | |
| Selenium | 2.00 J | 10.0 | ug/L | | | | | | | |
| Silver | 2.0 U | 10.0 | ug/L | | | | | | | |
| **LCS (6J20007-BS1)** | | | | Prepared: 10/20/2006 09:05 Analyzed: 10/23/2006 10:47 | | | | | | |
| Arsenic | 1140 | 10.0 | ug/L | 1000 | | 114 | 82-117 | | | |
| Barium | 1140 | 10.0 | ug/L | 1000 | | 114 | 72-125 | | | |
| Cadmium | 583 | 1.00 | ug/L | 500 | | 117 | 72-120 | | | |
| Chromium | 1130 | 10.0 | ug/L | 1000 | | 113 | 78-119 | | | |
| Lead | 1140 | 10.0 | ug/L | 1000 | | 114 | 72-121 | | | |
| Selenium | 1160 | 10.0 | ug/L | 1000 | | 116 | 82-127 | | | |
| Silver | 106 | 10.0 | ug/L | 100 | | 106 | 80-128 | | | |
| **Matrix Spike (6J20007-MS1)** | | **Source: C603724-01** | | Prepared: 10/20/2006 09:05 Analyzed: 10/23/2006 11:03 | | | | | | |
| Arsenic | 1110 | 10.0 | ug/L | 1000 | 2.0 U | 111 | 64-126 | | | |
| Barium | 1210 | 10.0 | ug/L | 1000 | 110 | 110 | 74-119 | | | |
| Cadmium | 565 | 1.00 | ug/L | 500 | 0.50 U | 113 | 68-121 | | | |
| Chromium | 1090 | 10.0 | ug/L | 1000 | 2.0 U | 109 | 73-120 | | | |
| Lead | 1100 | 10.0 | ug/L | 1000 | 2.0 U | 110 | 68-126 | | | |
| Selenium | 1120 | 10.0 | ug/L | 1000 | 2.0 U | 112 | 65-129 | | | |
| Silver | 102 | 10.0 | ug/L | 100 | 2.0 U | 102 | 69-121 | | | |
| **Matrix Spike Dup (6J20007-MSD1)** | | **Source: C603724-01** | | Prepared: 10/20/2006 09:05 Analyzed: 10/23/2006 11:10 | | | | | | |
| Arsenic | 1080 | 10.0 | ug/L | 1000 | 2.0 U | 108 | 64-126 | 3 | 12 | |
| Barium | 1180 | 10.0 | ug/L | 1000 | 110 | 107 | 74-119 | 2 | 11 | |
| Cadmium | 552 | 1.00 | ug/L | 500 | 0.50 U | 110 | 68-121 | 2 | 12 | |
| Chromium | 1060 | 10.0 | ug/L | 1000 | 2.0 U | 106 | 73-120 | 3 | 10 | |
| Lead | 1070 | 10.0 | ug/L | 1000 | 2.0 U | 107 | 68-126 | 3 | 19 | |
| Selenium | 1100 | 10.0 | ug/L | 1000 | 2.0 U | 110 | 65-129 | 2 | 10 | |
| Silver | 99.6 | 10.0 | ug/L | 100 | 2.0 U | 100 | 69-121 | 3 | 12 | |
| *Batch 6J23013 - EPA 7470A* | | | | | | | | | | |
| **Blank (6J23013-BLK1)** | | | | Prepared: 10/23/2006 09:38 Analyzed: 10/23/2006 15:45 | | | | | | |
| Mercury | 0.124 J | 0.20 | ug/L | | | | | | | |
| **LCS (6J23013-BS1)** | | | | Prepared: 10/23/2006 09:38 Analyzed: 10/23/2006 15:38 | | | | | | |
| Mercury | 5.25 | 0.20 | ug/L | 5.00 | | 105 | 87-123 | | | |
| **Matrix Spike (6J23013-MS1)** | | **Source: C603724-02** | | Prepared: 10/23/2006 09:38 Analyzed: 10/23/2006 15:47 | | | | | | |
| Mercury | 4.98 | 0.20 | ug/L | 5.00 | 0.11 U | 100 | 63-132 | | | |

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## QUALITY CONTROL

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Sanple Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Metals by EPA 6000/7000 Series Methods - Quality Control** | | | | | | | | | | |
| *Batch 6J23013 - EPA 7470A* | | | | | | | | | | |
| **Matrix Spike Dup (6J23013-MSD1)** | | **Source: C603724-02** | | Prepared: 10/23/2006 09:38 Analyzed: 10/23/2006 15:49 | | | | | | |
| Mercury | 4.84 | 0.20 | ug/L | 5.00 | 0.11 U | 97 | 63-132 | 3 | 10 | |

## NOTES AND DEFINITIONS

| | |
|---|---|
| J | Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). |
| U | Analyte included in the analysis, but not detected |

## LABORATORY CERTIFICATION SUMMARY

| Analysis | Matrix | Cert ID | Cert Number |
|---|---|---|---|
| 8260B Appendix 1 | Water | NC | 591 |
| Arsenic Total EPA 6010B | Water | NC | 591 |
| Barium Total EPA 6010B | Water | NC | 591 |
| Cadmium Total EPA 6010B | Water | NC | 591 |
| Chromium Total EPA 6010B | Water | NC | 591 |
| Lead Total EPA 6010B | Water | NC | 591 |
| Mercury Total EPA 7470A | Water | NC | 591 |
| Selenium Total EPA 6010B | Water | NC | 591 |
| Silver Total EPA 6010B | Water | NC | 591 |

# ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

1015 Passport Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-9846



| | |
|---|---|
| Client Name: Withers & Ravenel Environmental (WI009) | Project Number: 02020334.09 |
| Address: 111 MacKenan Drive | Project Name/Desc: Central Carolina Tire Ph. I & II |
| City/ST/Zip: Cary, NC 27511 | PO # / Billing Info: |
| Tel: (919) 469-3340 Fax: (919) 535-4545 | Reporting Contact: John Palmer |
| Sampler(s) Name, Affiliation (Print): JOHN PALMER / WRI | Billing Contact: Accounts Payable |
| Sampler(s) Signature: | Facility # (if required): |

Requested Analyses: 8260B Appendix 1; Ag,As,Ba,Cd,Cr,Hg,Pb,Se

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C603724

Preservation (See Codes) (Combine as necessary)

| Item # | Sample ID (Field Identification) | Collection Date | Collection Time | Comp / Grab | Matrix (see codes) | Total # of Containers | 8260B Appendix 1 | Ag,As,Ba,Cd,Cr,Hg,Pb,Se | | | | | | | | | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW-2 | 10/19/06 | 1155 | G | Water | 4 | X | X | | | | | | | | | |
| | MW-3 | | 1715 | | Water | 4 | X | X | | | | | | | | | |
| | MW-4 | | 1020 | | Water | 4 | X | X | | | | | | | | | |
| | MW-5 | | 1405 | | Water | 4 | X | X | | | | | | | | | |
| | MW-6 | | 1535 | | Water | 4 | X | X | | | | | | | | | |
| | MW-7 | | 1325 | | Water | 4 | X | X | | | | | | | | | |
| | MW-8 | | 1110 | | Water | 4 | X | X | | | | | | | | | |
| | MW-9 | | 1056 | | Water | 4 | X | X | | | | | | | | | |
| | SW-1 | | 1645 | | Water | 4 | X | X | | | | | | | | | |
| | SW-2 | | 1605 | | Water | 4 | X | X | | | | | | | | | |
| | Trip Blank | 10/19/06 | | G | Water | 3 | X | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

<-- Total # of Containers

| Sample Kit Prepared By | Date/Time | Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|---|---|
| CARY | 10/6/06 1645 | [signature] | 1800 / 10/19/06 | J Lowther | 10/20/06 740 |
| Comments | | Relinquished By | Date/Time | Received By | Date/Time |
| | | Relinquished By | Date/Time | Received By | Date/Time |

Cooler #'s & Temps on Receipt: 2.5

Condition Upon Receipt: ___ Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist