

Chemistry and Engineering Solutions in the Environmental Industry



May 12, 2006

Ms. Daphne Olszewski
Brownfields Program Project Manager
Division of Waste Management
401 Oberlin Road, Suite 150
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

Re: Storm Drain Inspections and Sampling Report
CNR Properties R.L.L.L.P.
Home Depot Site 3646
4750 South Boulevard, Charlotte, North Carolina
NCDENR Brownfields Project Number 07024-03

Dear Ms. Olszewski:

On behalf of CNR Properties R.L.L.L.P. (CNR), Irminger Consulting, Inc. (IC) is submitting this report of sampling results and observations recorded during inspections of the storm drains at the new Home Depot constructed at 4750 South Boulevard, Charlotte, North Carolina (Site). The report is required by the Work To Be Performed section of the Brownfields Agreement (BFA) for this Site.

Spring 2005 Flow Observation

As required by the BFA, a visual observation of flow is to be conducted in stormwater pipes referenced as Stormwater Pipe A and Stormwater Pipe B in the BFA and on the attached Site drawing. The visual observation is to occur after one week of no precipitation in the spring of the year following completion of construction. A certificate of occupancy was issued to Home Depot on January 27, 2005. A full week between precipitation events was not encountered during the spring of 2005. In an e-mail from you dated June 29, 2005, we agreed to change the requirement from seven days of dry weather to five days.

On July 27, 2005, following six days without precipitation (weather record documentation is attached to this letter), IC engineer, Steven Irminger, P.E. observed the condition of the stormdrain interiors at locations designated one through four on the attached drawing. A summary of the flow observations for each location is below:

Location 1: This location is accessible by a large diameter vertical manway approximately 12-feet deep. IC personnel entered the manway and observed four pipe ends at various depths within the structure. Based on as-built drawings for the Site, one

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12-inch diameter pipe drains a portion of the Home Depot roof. This pipe was observed to be dry. A second 12-inch diameter pipe leads to perforated pipes that drain water from the retaining wall. This pipe was observed to be flowing water at a rate estimated to be one gallon per minute (gpm). The flow rate was estimated using a 5-gallon bucket and a stop watch.

The third pipe is a 37-inch diameter plastic pipe that enters the northern wall of the manway and conveys water into the manway from the ground surface immediately west of the Home Depot store and areas along the railroad tracks and Pineville Road. The exact drainage area served by the 37-inch diameter pipe is not known. On July 27, 2005, the pipe was observed to be filled with soil to a depth of approximately 6-inches. Water flow in the pipe was moving approximately 2-inches per second at the entrance to the manway. The water was approximately 0.5-inch deep. A rough estimate of the water flow from the pipe is 4.5 gpm. A summary of the flow estimate measurements and calculations are contained in **Table 1** which is attached to this letter.

The fourth pipe is a 45-inch diameter plastic pipe that conveys water away from the manway. All water entering the manway exits through the 45-inch diameter pipe. This pipe was manufactured to be watertight in order to minimize water seepage either in or out of the pipe. On July 27, 2005, this pipe was observed to contain soil approximately 2-inches deep. Water flow in the pipe was observed to be moving approximately 1.75-inches per second at a depth of approximately 1.25-inches. A rough estimate of the water flow rate in the pipe is 7.9 gpm. The discrepancy in flows entering and exiting the manway are attributable to the inaccuracy of measuring water velocity and the wetted perimeter.

Location 2: This location is accessible by a rectangular vertical manway approximately 8-feet deep. On July 27, 2005, IC personnel could not enter the manway because the iron grate over the manway was covered with asphalt and could not be removed. Flow observations were made from the surface looking through the grate. This location has a 45-inch diameter plastic pipe entering the manway on the uphill (west) side, and a 45-inch diameter plastic pipe exiting the manway on the downgradient side. The flow across the manway was estimated to be approximately 7.9-gpm.

Location 3: This location is accessible by a round manway approximately 2-feet deep. On July 27, 2005, IC personnel observed the manway to be dry.

Location 4: This location is accessible by a round manway approximately 4-feet deep. On July 27, 2005, IC personnel observed the manway to be dry.

Fall 2005 Flow Observation

As stated in the BFA, a visual observation of flow in Stormwater Pipes A and B is to be conducted after one week of no precipitation in the fall of the year following completion of construction. A certificate of occupancy was issued to Home Depot on January 27, 2005. On November 9, 2005, following six days without precipitation (weather records for the seven days prior to November 9, 2005, are attached to this letter), IC engineer, Steven Irminger, P.E. observed the condition of the stormdrain interiors at locations designated one through four on the attached drawing. A summary of the flow observations for each location is below:

Location 1: IC personnel entered the manway and observed that the 12-inch diameter pipe which drains a portion of the Home Depot roof was wet and slowly dripping water. The 12-inch diameter pipe leading to perforated pipes that drain water from the retaining wall was observed to be flowing water at a rate of approximately $\frac{3}{4}$ -gpm. The flow rate was estimated using a 5-gallon bucket and a stop watch.

The 37-inch diameter plastic pipe that enters the northern wall of the manway was observed to be flowing water at a rate estimated to be 9.1-gpm. On November 9, 2005, the pipe was observed to be filled with soil to a depth of approximately 6-inches.

The 45-inch diameter plastic pipe that conveys water away from the manway was estimated to be flowing water at a rate of approximately 9.3-gpm. The discrepancy in entrance versus exit flow rates is explained by the inability to accurately measure flow velocity and the hydraulic wetted perimeter.

Location 2: On November 9, 2005, IC personnel were able to break the asphalt covering the iron grate at this location and enter the manway. The flow across the manway was estimated to be approximately 15.5-gpm.

Location 3: This location is accessible by a round manway approximately 2-feet deep. On November 9, 2005, IC personnel observed the manway to be wet but not flowing.

Location 4: This location is accessible by a round manway approximately 4-feet deep. On November 9, 2005, IC personnel observed the manway to be wet but not flowing.

February 23, 2006 Flow Observation and Stormwater Sampling Event

According to the BFA, within thirty days following the one-year anniversary of completion of construction, non-field-filtered water samples are to be collected at the four locations previously observed for flow and also at the pipe outfall located across South Boulevard. The samples are to be collected within twenty-four hours after the cessation of a rain event consisting of at least 0.25-inches of rainfall.

On February 23, 2006, following a rain event which was recorded at the Charlotte International airport to have been 0.3-inches, IC personnel collected water samples from the stormwater drains as required by the BFA. Documentation of the precipitation event prior to stormwater sampling February 23, 2006, is attached to this letter. The water samples were collected into laboratory-supplied sample containers and immediately placed on ice. The samples were transported under chain-of-custody protocol to Pace Analytical Laboratories of Huntersville, North Carolina for analysis of the following parameters:

- Benzene
- 2-Chlorophenol
- Chromium
- 1,2-Dichloroethane
- 1,2-Dichloroethene (cis)
- 1,2-Dichloroethene (total)
- 1,2-Dichloropropane
- Lead
- Mercury
- Trichloroethene
- Trichlorofluoromethane

Details of observations and the analytical results follow:

Location 1: IC personnel entered the manway and observed that the 12-inch diameter pipe which drains a portion of the Home Depot roof was wet and dripping water at a rate of approximately 0.1 gallons per minute. The 12-inch diameter pipe leading to perforated pipes that drain water from the retaining wall was observed to be flowing water at a rate of approximately 1-gpm. The flow rate was estimated using a 5-gallon bucket and a stop watch.

The 37-inch diameter plastic pipe that enters the northern wall of the manway was observed to be flowing water at a rate estimated to be 9.1-gpm. On February 23, 2006, the pipe was observed to be filled with soil to a depth of approximately 6-inches.

The 45-inch diameter plastic pipe that conveys water away from the manway was estimated to be flowing water at a rate of approximately 9.6-gpm. The discrepancy in entrance versus exit flow rates is explained by the inability to accurately measure flow velocity and the hydraulic wetted perimeter.

Grab samples of the water were collected at the lip of the 45-inch diameter pipe. The volatile organic aromatic (VOA) vials were filled first. The depth of the water was insufficient to submerge the larger bottles, so a laboratory-supplied, unpreserved, wide-

mouth, plastic bottle was used to finish filling the large sample bottles. Care was exercised to not disturb sediment at the bottom of the pipe during sampling.

Based on the laboratory report, none of the analytical parameters were reported at concentrations greater than the sample detection limit for the water sample collected at Location 1. A copy of the laboratory report and chain-of-custody record is attached to this letter.

Location 2: On February 23, 2006, IC personnel entered the manway at Location 2 to observe flow and collect water samples. The flow across the manway was estimated to be approximately 12.9-gpm.

Grab samples of the water were collected at the lip of the 45-inch diameter pipe in which water enters the manway. The volatile organic aromatic (VOA) vials were filled first. The depth of the water was insufficient to submerge the larger bottles, so a laboratory-supplied, unpreserved, wide-mouth, plastic bottle was used to finish filling the large sample bottles. Care was exercised to not disturb sediment at the bottom of the pipe during sampling.

Based on the laboratory report, trichloroethene (TCE) was reported in the water sample collected from Location 2 at a concentration of 7.2 micrograms per Liter (ug/L). None of the other analytical parameters were reported at concentrations greater than the sample detection limit for the water sample collected at Location 2.

Location 3: This location is accessible by a round manway approximately 2-feet deep. On February 23, 2006, IC personnel observed the manway to be dry. No water samples were collected from Location 3.

Location 4: This location is accessible by a round manway approximately 4-feet deep. On February 23, 2006, IC personnel observed the manway to be wet, however, there was insufficient water to collect a sample.

Location 5: This is the outfall of two 60-inch diameter concrete pipes located across South Boulevard and approximately 100 yards from the CNR property. On February 23, 2006, IC personnel observed that only the southernmost pipe was flowing water. The flow was estimated to be 149-gpm.

IC personnel collected a grab water sample from a pool of water at the end of the southernmost pipe of Location 5. Based on the laboratory report, all of the parameters analyzed were reported to be below the sample detection limit.

Discussion

The three flow observations recorded at the ends of the two pipes indicate that the watertight pipes designated A and B on the attached drawing are operating as originally

Ms. Daphne Olszewski
May 12, 2006
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designed. While the flow estimates based on visual observation vary between the upper and lower pipe ends, the discrepancy is easily within the error of the flow measurements. The situation of zero flow at the upper end of the pipe and positive flow at the lower end of the pipe did not occur during the observation events.

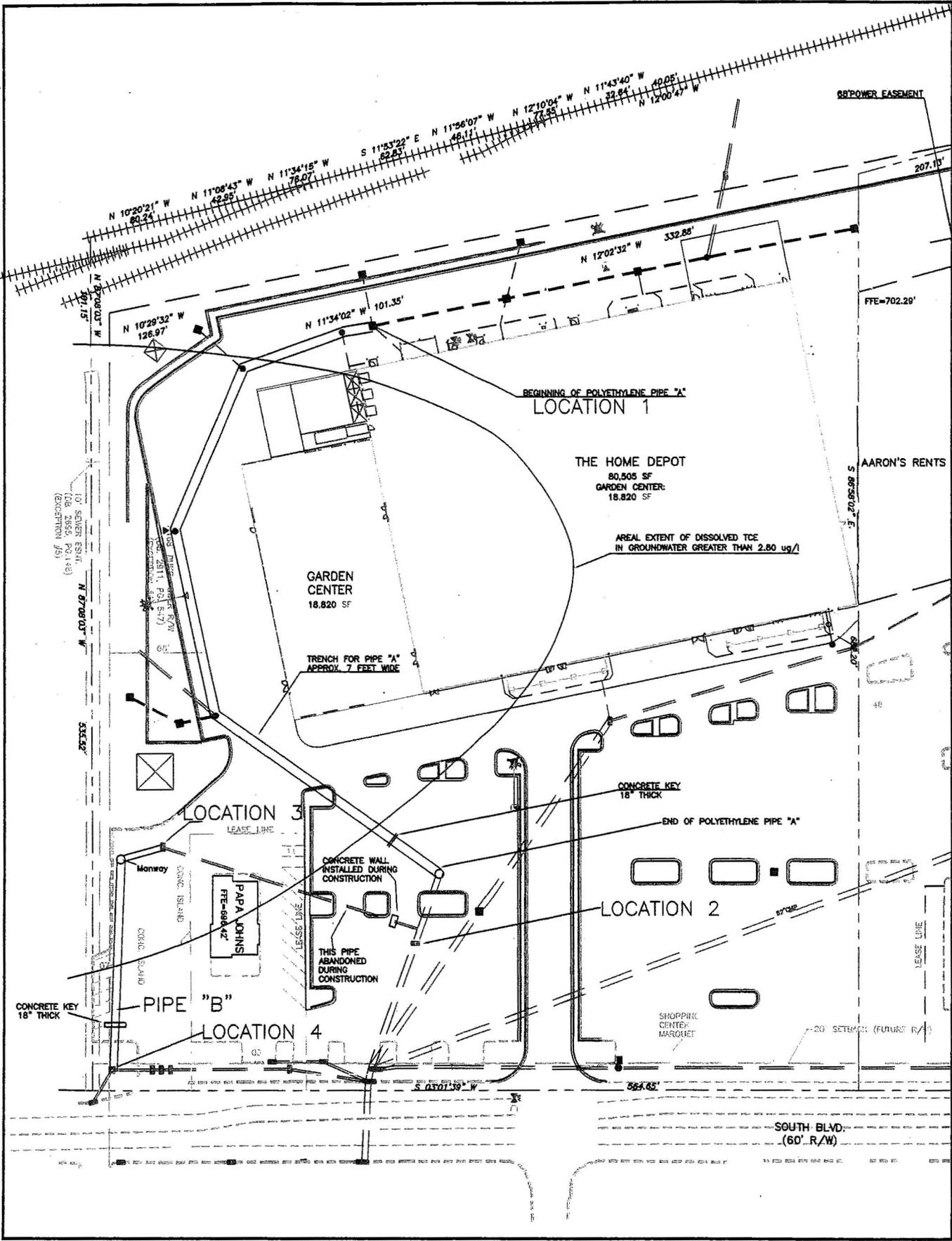
The trichloroethene concentration of 7.2 ug/L reported in the water sample collected February 23, 2006, from Location 2 may indicate intrusion of contaminated groundwater into Pipe "A". The 15A North Carolina Administrative Code (NCAC) Sub-Chapter 2B surface water quality standard for streams that are not water supplies is 92.4 ug/L. The water at the outfall of Location 5 are the headwaters of an unnamed tributary of Little Hope Creek. Little Hope Creek is listed on the North Carolina DENR web page as a Class C (non-water supply) stream. As indicated by analysis of the water sample collected from Location 5, the trichloroethene has not resulted in a violation of surface water quality standards of the unnamed creek at this location.

Should you have any questions or need additional information, please do not hesitate to contact me.

Sincerely,
IRMINGER CONSULTING, INC.



Steven E. Irminger, P.E.
Project Manager



IRMINGER CONSULTING, INC.	
0005-001TM	Made By: D.P., Date: 01-08-2004
	Chkd By: D.P., Filename: HSSW

HOME DEPOT
SOUTH BOULEVARD
CHARLOTTE, NC

UNDERGROUND
UTILITIES

Figure
1

TABLE 1
Stormwater Flow Estimates
 CNR PROPERTIES, R.L.L.P
 4750 South Boulevard
 Charlotte, North Carolina

Location	Date	Estimated Flow Velocity (Inches per second)	Estimated Depth (inches)	Estimated Surface Width (inches)	Estimated Flow Rate* (gpm)
1 37" diameter Pipe 37" diameter Pipe 37" diameter Pipe 45" diameter Pipe 45" diameter Pipe 45" diameter Pipe	7/25/2005	2.0	0.5	35	4.5
	11/9/2005	2.0	1.0	35	9.1
	2/23/2005	2.0	1.0	35	9.1
	7/25/2005	1.75	1.25	28	7.9
	11/9/2005	1.5	1.50	32	9.3
	2/23/2005	1.5	1.50	33	9.6
2	7/25/2005	8.0	0.8	10	8.3
	11/9/2005	12.0	1.0	10	15.5
	2/23/2005	10.0	1.0	10.0	12.9
3	7/25/2005	Dry	Dry	Dry	Dry
	11/9/2005	Wet	Wet	Wet	<0.01
	2/23/2005	Wet	Wet	Wet	<0.01
4	7/25/2005	Dry	Dry	Dry	Dry
	11/9/2005	Wet	Wet	Wet	<0.01
	2/23/2005	Wet	Wet	Wet	<0.01
5	2/23/2005	6.0	4.0	48	149

* Flow assumes laminar flow and average velocity = maximum velocity.

IC PHOTOGRAPHIC RECORD

Project No.: 0005-001LS

Project Name: West Charlotte

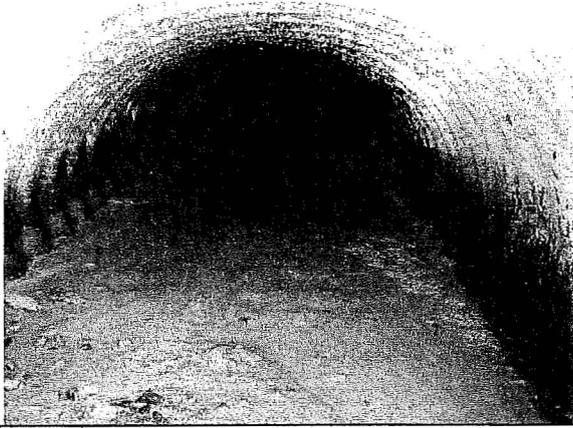


Photo #1: Spring 2005, Location 1, 37-inch diameter pipe.

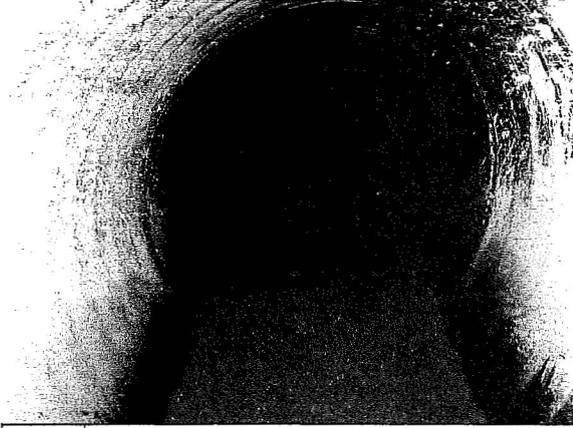


Photo #2: Spring 2005, Location 1, 45-inch diameter pipe.



Photo #3: Spring 2005, Location 1, 12-inch diameter pipe leading to the berm drains.

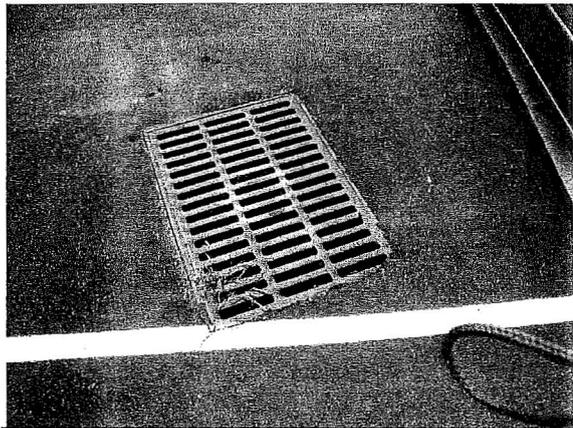


Photo #4: Spring 2005, Location 2

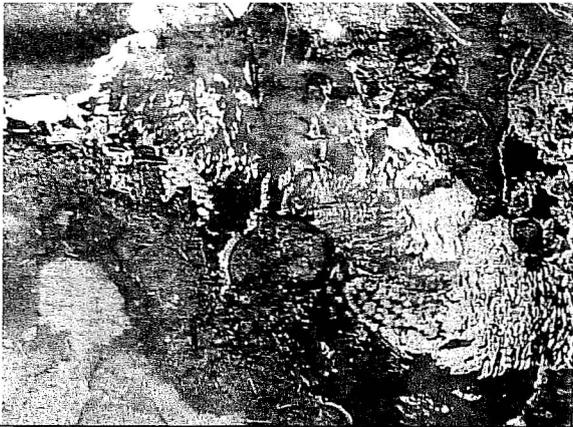


Photo #5: Spring 2005, Location 2

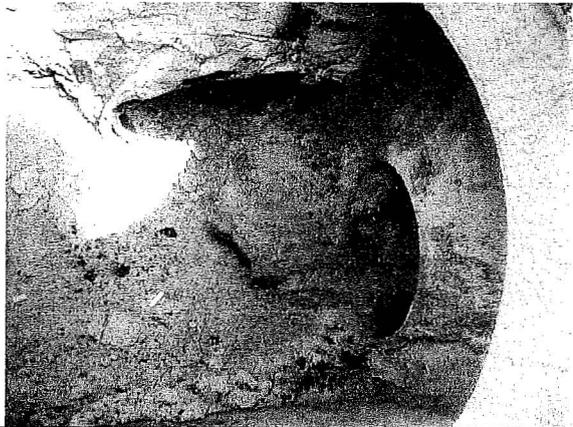


Photo #6: Spring 2005, Location 3

IC PHOTOGRAPHIC RECORD

Project No.: 0005-001LS

Project Name: West Charlotte

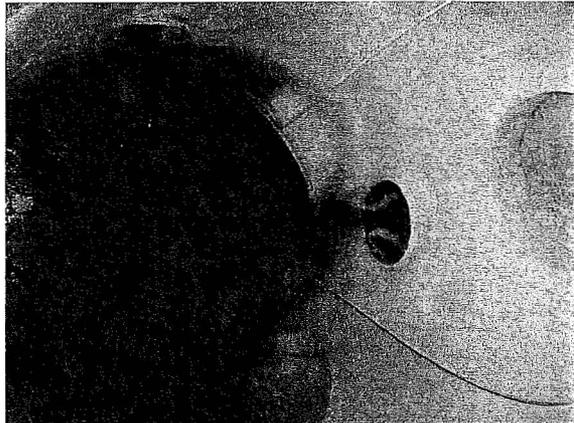


Photo #7: Fall 2005, Location 1, The pipe to the right leads to the Home Depot roof. The pipe to the left leads to the berm drains.



Photo #8: Fall 2005, Location 1, 12-inch diameter pipe that leads to the berm drains.



Photo #9: Fall 2005, Location 1, 37-inch diameter Pipe



Photo #10: Fall 2005, Location 1, 45-inch diameter pipe



Photo #11: Fall 2005, Location 2, 45-inch diameter pipe leading into the manway

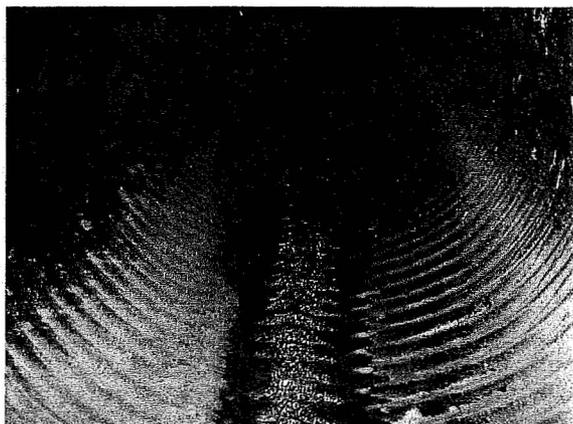


Photo #12: Fall 2005, Location 2, 45-inch diameter pipe leading away from the manway.

IC PHOTOGRAPHIC RECORD

Project No.: 0005-001LS

Project Name: West Charlotte



Photo #13:	Fall 2005, Location 3
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Photo #14:	Fall 2005, Location 4
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Photo #15:	February 2006, Location 1, 37-inch diameter pipe
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Photo #16:	February 2006, Location 1, 45-inch diameter pipe
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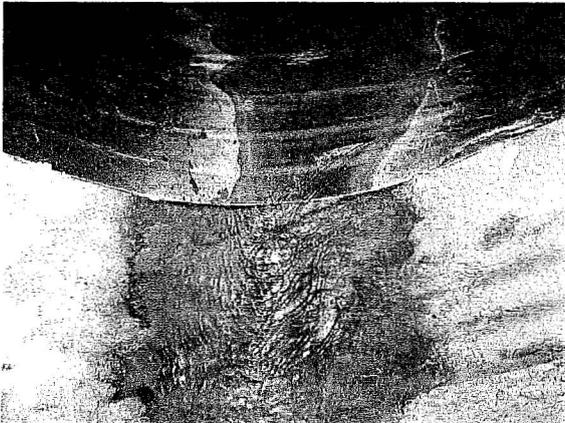


Photo #17:	February 2006, Location 2, upgradient pipe
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Photo #18:	February 2006, Location 2, downgradient pipe.
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IC PHOTOGRAPHIC RECORD

Project No.: 0005-001LS

Project Name: West Charlotte



Photo #19:	February 2006, Location 3
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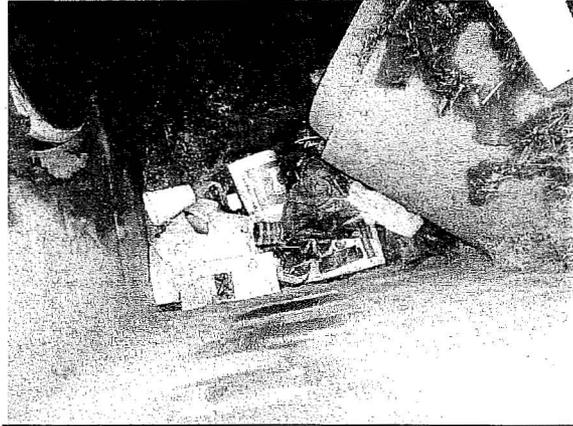


Photo #20:	February 2006, Location 4
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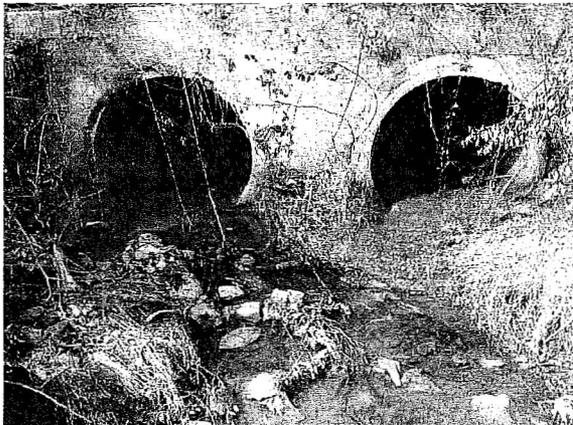


Photo #21:	February 2006, Location 5
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Photo #22:	
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Photo #23:	
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Photo #24:	
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9800 Kinsey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Pace Analytical Services, Inc.
2225 Riverside Drive
Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

March 06, 2006

Mr. Steve Irminger
Irminger Consulting Inc.
2015 Erinbrook Road
Concord, NC 28025

RE: Lab Project Number: 92113995
Client Project ID: South Blvd./0005-001

Dear Mr. Irminger:

Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Kate A. Knauff

Kate Knauff
Kate.Knauff@pacelabs.com
Project Manager

Enclosures

Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627



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Pace Analytical Services, Inc.
2225 Riverside Drive
Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

Lab Project Number: 92113995
Client Project ID: South Blvd./0005-001

***ALL QC IS NOT COMPLETE FOR QC SAMPLE(S):

ESN 926698358 BATCH 151329
ESN 926698366 BATCH 151329

Asheville Certification IDs
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NC Drinking Water 37712
SC Environmental 99030
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 2225 Riverside Drive
 Asheville, NC 28804
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 Fax: 828.252.4618

Lab Project Number: 92113995
 Client Project ID: South Blvd./0005-001

Lab Sample No: 926680042 Project Sample Number: 92113995-001 Date Collected: 02/23/06 12:00
 Client Sample ID: MAIN UPGRADIENT Matrix: Water Date Received: 02/23/06 13:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
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Metals

Trace ICP Metals	Prep/Method: / EPA 200.7							
Chromium	ND	mg/l	0.0020	02/28/06 21:59	ALV	7440-47-3		
Lead	ND	mg/l	0.0050	02/28/06 21:59	ALV	7439-92-1		
Date Digested	02/24/06 08:45			02/24/06 08:45				
Mercury, CVAAE, in Water	Method: EPA 7470							
Mercury	ND	mg/l	0.00020	02/24/06 11:47	ALV	7439-97-6		

GC/MS Semivolatiles

Semivolatile Organics	Prep/Method: EPA 3510 / EPA 8270							
2-Chlorophenol	ND	ug/l	11.	03/02/06 20:42	BET	95-57-8		
Phenol-d5 (S)	32	%		03/02/06 20:42	BET	4165-62-2		
2-Fluorophenol (S)	47	%		03/02/06 20:42	BET	367-12-4		
2,4,6-Tribromophenol (S)	79	%		03/02/06 20:42	BET	118-79-6		
Date Extracted	03/01/06			03/01/06				

GC/MS Volatiles

GC/MS VOCs by 8260	Method: EPA 8260							
Benzene	ND	ug/l	5.0	03/01/06 08:20	DLK	71-43-2		
1,2-Dichloroethane	ND	ug/l	5.0	03/01/06 08:20	DLK	107-06-2		
cis-1,2-Dichloroethane	ND	ug/l	5.0	03/01/06 08:20	DLK	156-59-2		
1,2-Dichloropropane	ND	ug/l	5.0	03/01/06 08:20	DLK	78-87-5		
Trichloroethene	ND	ug/l	5.0	03/01/06 08:20	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	03/01/06 08:20	DLK	75-69-4		
Toluene-d8 (S)	100	%		03/01/06 08:20	DLK	2037-26-5		
4-Bromofluorobenzene (S)	100	%		03/01/06 08:20	DLK	460-00-4		
Dibromofluoromethane (S)	109	%		03/01/06 08:20	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	107	%		03/01/06 08:20	DLK	17060-07-0		

Date: 03/06/06

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 Fax: 828.252.4618

Lab Project Number: 92113995
 Client Project ID: South Blvd./0005-001

Lab Sample No: 926680133 Project Sample Number: 92113995-002 Date Collected: 02/23/06 12:30
 Client Sample ID: MAIN LOWER Matrix: Water Date Received: 02/23/06 13:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
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Metals

Trace ICP Metals	Prep/Method: / EPA 200.7							
Chromium	ND	mg/l	0.0020	02/28/06 22:04	ALV	7440-47-3		
Lead	ND	mg/l	0.0050	02/28/06 22:04	ALV	7439-92-1		
Date Digested	02/24/06 08:45			02/24/06 08:45				

Mercury, CVAAS, in Water	Method: EPA 7470							
Mercury	ND	mg/l	0.00020	02/24/06 11:47	ALV	7439-97-6		

GC/MS Semivolatiles

Semivolatile Organics	Prep/Method: EPA 3510 / EPA 8270							
2-Chlorophenol	ND	ug/l	10.	03/02/06 21:17	BET	95-57-8		
Phenol-d5 (S)	29	%		03/02/06 21:17	BET	4165-62-2		
2-Fluorophenol (S)	45	%		03/02/06 21:17	BET	367-12-4		
2,4,6-Tribromophenol (S)	80	%		03/02/06 21:17	BET	118-79-6		
Date Extracted	03/01/06			03/01/06				

GC/MS Volatiles

GC/MS VOCs by 8260	Method: EPA 8260							
Benzene	ND	ug/l	5.0	03/01/06 08:40	DLK	71-43-2		
1,2-Dichloroethane	ND	ug/l	5.0	03/01/06 08:40	DLK	107-06-2		
cis-1,2-Dichloroethene	ND	ug/l	5.0	03/01/06 08:40	DLK	156-59-2		
1,2-Dichloropropane	ND	ug/l	5.0	03/01/06 08:40	DLK	78-87-5		
Trichloroethene	7.2	ug/l	5.0	03/01/06 08:40	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	03/01/06 08:40	DLK	75-69-4		
Toluene-d8 (S)	97	%		03/01/06 08:40	DLK	2037-26-5		
4-Bromofluorobenzene (S)	91	%		03/01/06 08:40	DLK	460-00-4		
Dibromofluoromethane (S)	105	%		03/01/06 08:40	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	108	%		03/01/06 08:40	DLK	17060-07-0		

Date: 03/06/06

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Pace Analytical Services, Inc.
 2225 Riverside Drive
 Asheville, NC 28804
 Phone: 828.254.7176
 Fax: 828.252.4618

Lab Project Number: 92113995
 Client Project ID: South Blvd./0005-001

Lab Sample No: 926680190 Project Sample Number: 92113995-003 Date Collected: 02/23/06 13:00
 Client Sample ID: OUTFALL Matrix: Water Date Received: 02/23/06 13:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----------	----	---------	------	--------

Metals

Trace ICP Metals	Prep/Method: / EPA 200.7							
Chromium	ND	mg/l	0.0020	02/26/06 18:40	JDA1	7440-47-3		
Lead	ND	mg/l	0.0050	02/26/06 18:40	JDA1	7439-92-1		
Date Digested	02/26/06 09:10			02/26/06 09:10				
Mercury, CVAAS, in Water	Method: EPA 7470							
Mercury	ND	mg/l	0.00020	02/24/06 11:47	ALV	7439-97-6		

GC/MS Semivolatiles

Semivolatile Organics	Prep/Method: EPA 3510 / EPA 8270							
2-Chlorophenol	ND	ug/l	10.	03/02/06 21:52	BET	95-57-8		
Phenol-d5 (S)	32	%		03/02/06 21:52	BET	4165-62-2		
2-Fluorophenol (S)	44	%		03/02/06 21:52	BET	367-12-4		
2,4,6-Tribromophenol (S)	66	%		03/02/06 21:52	BET	118-79-6		
Date Extracted	03/01/06			03/01/06				

GC/MS Volatiles

GC/MS VOCs by 8260	Method: EPA 8260							
Benzene	ND	ug/l	5.0	03/01/06 08:01	DLK	71-43-2		
1,2-Dichloroethane	ND	ug/l	5.0	03/01/06 08:01	DLK	107-06-2		
cis-1,2-Dichloroethene	ND	ug/l	5.0	03/01/06 08:01	DLK	156-59-2		
1,2-Dichloropropane	ND	ug/l	5.0	03/01/06 08:01	DLK	78-87-5		
Trichloroethene	ND	ug/l	5.0	03/01/06 08:01	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	03/01/06 08:01	DLK	75-69-4		
Toluene-d8 (S)	101	%		03/01/06 08:01	DLK	2037-26-5		
4-Bromofluorobenzene (S)	98	%		03/01/06 08:01	DLK	460-00-4		
Dibromofluoromethane (S)	107	%		03/01/06 08:01	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	106	%		03/01/06 08:01	DLK	17060-07-0		

Date: 03/06/06

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 2225 Riverside Drive
 Asheville, NC 28804
 Phone: 828.254.7176
 Fax: 828.252.4618

Lab Project Number: 92113995
 Client Project ID: South Blvd./0005-001

Lab Sample No: 926680307 Project Sample Number: 92113995-004 Date Collected: 02/23/06 00:00
 Client Sample ID: TRIP BLANK Matrix: Water Date Received: 02/23/06 13:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Benzene	ND	ug/l	5.0	03/01/06 02:47	DLK	71-43-2		
1,2-Dichloroethane	ND	ug/l	5.0	03/01/06 02:47	DLK	107-06-2		
cis-1,2-Dichloroethene	ND	ug/l	5.0	03/01/06 02:47	DLK	156-59-2		
1,2-Dichloropropane	ND	ug/l	5.0	03/01/06 02:47	DLK	78-87-5		
Trichloroethene	ND	ug/l	5.0	03/01/06 02:47	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	03/01/06 02:47	DLK	75-69-4		
Toluene-d8 (S)	100	%		03/01/06 02:47	DLK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		03/01/06 02:47	DLK	460-00-4		
Dibromofluoromethane (S)	107	%		03/01/06 02:47	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	106	%		03/01/06 02:47	DLK	17060-07-0		

Date: 03/06/06

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Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

Lab Project Number: 92113995
Client Project ID: South Blvd./0005-001

PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

- ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
(S) Surrogate

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QUALITY CONTROL DATA

Lab Project Number: 92113995
 Client Project ID: South Blvd./0005-001

MATRIX SPIKE: 926695214

Parameter	Units	926678269	Spike	MS	MS	Footnotes
		Result	Conc.	Result	% Rec	
Benzene	ug/l	1.111	50.00	29.13	56	
Trichloroethene	ug/l	0	50.00	28.32	57	
Toluene-d8 (S)					98	
4-Bromofluorobenzene (S)					104	
Dibromofluoromethane (S)					100	
1,2-Dichloroethane-d4 (S)					99	

Date: 03/06/06

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Lab Project Number: 92113995
Client Project ID: South Blvd./0005-001

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D) Laboratory Control Sample (Duplicate)
MS(D) Matrix Spike (Duplicate)
DUP Sample Duplicate
ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
RPD Relative Percent Difference
(S) Surrogate
[1] The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCS(D) were within acceptance limits showing that the laboratory is in control and the data is acceptable.

Date: 03/06/06

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 0973454 of

Section A

Required Client Information:

Company: ...

Address: ...

Phone: ... Fax: ...

Requested Due Date/TAT: ...

Section B

Required Project Information:

Report To: ...

Copy To: ...

Purchase Order No.: ...

Project Name: ...

Project Number: ...

Section C

Invoice Information:

Attention: ...

Company Name: ...

Address: ...

Pace Quote Reference: ...

Pace Project Manager: ...

Pace Profile #: ...

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA Other _____

SITE LOCATION

GA IL IN MI MN NC

OH SC WI OTHER _____

Section D Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / -)

Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Filtered (Y/N)	Requested Analysis:	Pace Project Number Lab I.D.
			COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other			
			DATE	TIME	DATE	TIME													
...	

Additional Comments: ...

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION			
...	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: ...

SIGNATURE of SAMPLER: ...

DATE Signed (MM/DD/YY): ...



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Current Weather Conditions:

Charlotte, Charlotte / Douglas International Airport, NC, United States

(KCLT) 35-12-48N 080-56-55W 220M

Conditions at Feb 23, 2006 - 04:52 PM EST

2006.02.23 2152 UTC

Wind from the NW (310 degrees) at 7 MPH (6 KT)

Visibility 10 mile(s)

Sky conditions partly cloudy

Temperature 60.1 F (15.6 C)

Dew Point 21.9 F (-5.6 C)

Relative Humidity 22%

Pressure (altimeter) 30.03 in. Hg (1016 hPa)

ob KCLT 232152Z 31006KT 10SM SCT180 SCT250 16/M06 A3003 RMK AO2 SLP165 T01561056

Maximum and Minimum Temperatures

Maximum Temperature F (C)	Minimum Temperature F (C)
---------------------------------	---------------------------------

59.0 (15.0) 50.0 (10.0) In the **6 hours** preceding Feb 23, 2006 - 12:52 PM EST / 2006.02.23 1752 UTC

57.0 (13.9) 46.0 (7.8) In the **24 hours** preceding Feb 22, 2006 - 11:52 PM EST / 2006.02.23 0452 UTC

Precipitation Accumulation

Precipitation
Amount

0.03 inches In the **6 hours** preceding Feb 23, 2006 - 06:52 AM EST / 2006.02.23 1152 UTC

0.30 inches In the **24 hours** preceding Feb 23, 2006 - 06:52 AM EST / 2006.02.23 1152 UTC

24 Hour Summary

	Time EST (UTC)	Temperature F (C)	Dew Point F (C)	Pressure Inches (hPa)	Wind MPH	Weather
Latest	5 PM (22) Feb 23	60.1 (15.6)	21.9 (-5.6)	30.03 (1016)	NW 7	
	4 PM (21) Feb 23	61.0 (16.1)	26.1 (-3.3)	30 (1015)	NNW 13	
	3 PM (20) Feb 23	60.1 (15.6)	28.9 (-1.7)	29.99 (1015)	WNW 13	
	2 PM (19) Feb 23	60.1 (15.6)	32.0 (0.0)	29.99 (1015)	NW 18	
	1 PM (18) Feb 23	59.0 (15.0)	39.9 (4.4)	30.01 (1016)	NNW 8	
	Noon (17) Feb 23	55.0 (12.8)	42.1 (5.6)	30.01 (1016)	NNW 9	
	11 AM (16) Feb 23	53.1 (11.7)	46.0 (7.8)	30 (1015)	NNW 13	
	10 AM (15) Feb 23	53 (12)	48 (9)	30 (1015)	N 8	mist
	9 AM (14) Feb 23	51 (11)	48 (9)	29.99 (1015)	NNW 7	mist
	8 AM (13) Feb 23	51 (11)	50 (10)	29.97 (1014)	NNW 12	mist
	7 AM (12) Feb 23	54.0 (12.2)	52.0 (11.1)	29.91 (1012)	Variable 3	
	6 AM (11) Feb 23	53 (12)	51 (11)	29.89 (1012)	Variable 6	

5 AM (10) Feb 23	53 (12)	51 (11)	29.89 (1012)	Variable 3	mist
4 AM (9) Feb 23	53 (12)	51 (11)	29.88 (1011)	Calm	light rain; mist
3 AM (8) Feb 23	51 (11)	51 (11)	29.86 (1011)	SSW 6	fog
2 AM (7) Feb 23	51.1 (10.6)	50.0 (10.0)	29.89 (1012)	SSE 7	light rain; mist
1 AM (6) Feb 23	51.1 (10.6)	50.0 (10.0)	29.89 (1012)	SSE 8	light rain; mist
Midnight (5) Feb 23	51 (11)	50 (10)	29.89 (1012)	SE 8	mist
11 PM (4) Feb 22	50.0 (10.0)	48.9 (9.4)	29.92 (1013)	E 7	light rain; mist
10 PM (3) Feb 22	50 (10)	48 (9)	29.93 (1013)	E 5	rain; mist
9 PM (2) Feb 22	50 (10)	48 (9)	29.94 (1013)	N 8	rain; mist
8 PM (1) Feb 22	53 (12)	50 (10)	29.93 (1013)	Variable 5	light rain; mist
7 PM (0) Feb 22	55.9 (13.3)	48.9 (9.4)	29.92 (1013)	SE 5	
Oldest 6 PM (23) Feb 22	55.9 (13.3)	48.0 (8.9)	29.91 (1012)	SSE 3	light rain
Time EST (UTC)	Temperature F(C)	Dew Point F(C)	Pressure Inches(hPa)	Wind (MPH)	Weather

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Charlotte, North Carolina on Wednesday, November 9, 2005

Wednesday

November 9 2005 Go

Previous Day

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Daily Summary

	Actual	Average Record	
Temperature			
Mean Temperature	°F	54°F	
Max Temperature	82°F	65°F	81°F (19)
Min Temperature	52°F	43°F	24°F (19)
Degree Days			
Heating Degree Days	0	11	
Month to date heating degree days	57	93	
Since 1 July heating degree days	220	273	
Cooling Degree Days	2	1	
Month to date cooling degree days	2	1	
Year to date cooling degree days	1665	1676	
Growing Degree Days	16 (Base °F)		
Moisture			
Dew Point	52°F		
Average Humidity	66		
Maximum Humidity	93		
Minimum Humidity	39		
Precipitation			
Precipitation	0.00 in	0.11 in	2.76 in (
Month to date precipitation	0.00	1.07	
Year to date precipitation	33.57	38.04	
Snow			
Snow	0.00 in	0.00 in	T in (199
Month to date snowfall	0.0	0.0	

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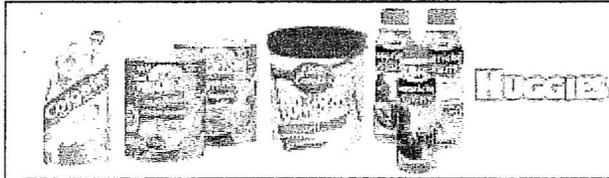
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Charlotte, North Carolina on Monday, July 18, 2005

Monday
July 18 2005 Go
Previous Day Next Day

Daily Summary

	Actual	Average R	
Temperature			
Mean Temperature	°F	81°F	
Max Temperature	92°F	90°F	1
Min Temperature	74°F	71°F	6
Degree Days			
Heating Degree Days	0	0	
Month to date heating degree days	0	0	
Since 1 July heating degree days	0	0	
Cooling Degree Days	18	15	
Month to date cooling degree days	250	264	
Year to date cooling degree days	619	789	
Growing Degree Days	32 (Base °F)		
Moisture			
Dew Point	72°F		
Average Humidity	73		
Maximum Humidity	94		
Minimum Humidity	52		
Precipitation			
Precipitation	0.00 in	0.13 in	1
Month to date precipitation	0.75	2.18	
Year to date precipitation	24.28	24.15	
Since 1 June precipitation	8.98	5.60	
Snow			
Snow	0.00 in	0.00 in	0

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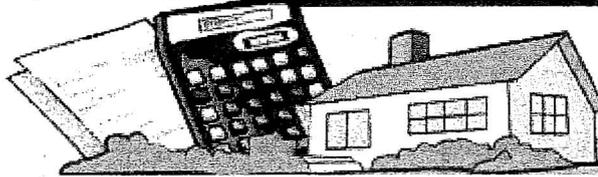
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Charlotte, North Carolina on Tuesday, July 19, 2005

July 19 2005 Go
 Previous Day Next Day

Daily Summary

	Actual	Average R	
Temperature			
Mean Temperature	°F	81°F	
Max Temperature	93°F	91°F	1
Min Temperature	72°F	71°F	6
Degree Days			
Heating Degree Days	0	0	
Month to date heating degree days	0	0	
Since 1 July heating degree days	0	0	
Cooling Degree Days	18	15	
Month to date cooling degree days	268	279	
Year to date cooling degree days	637	804	
Growing Degree Days	32 (Base °F)		
Moisture			
Dew Point	70°F		
Average Humidity	72		
Maximum Humidity	94		
Minimum Humidity	49		
Precipitation			
Precipitation	T in	0.13 in	2
Month to date precipitation	0.75	2.31	
Year to date precipitation	24.28	24.28	
Since 1 June precipitation	8.98	5.73	
Snow			
Snow	0.00 in	0.00 in	0

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Charlotte, North Carolina on Wednesday, July 20, 2005

Wednesday
July 20, 2005 Go
Previous Day Next Day

Daily Summary

	Actual	Average Record	
Temperature			
Mean Temperature	°F	81°F	
Max Temperature	93°F	91°F	101°F (1986)
Min Temperature	71°F	71°F	60°F (1910)
Degree Days			
Heating Degree Days	0	0	
Month to date heating degree days	0	0	
Since 1 July heating degree days	0	0	
Cooling Degree Days	17	15	
Month to date cooling degree days	285	294	
Year to date cooling degree days	654	819	
Growing Degree Days	31 (Base °F)		
Moisture			
Dew Point	70°F		
Average Humidity	70		
Maximum Humidity	93		
Minimum Humidity	47		
Precipitation			
Precipitation	0.00 in	0.13 in	1.25 in (1919)
Month to date precipitation	0.75	2.44	
Year to date precipitation	24.28	24.41	
Since 1 June precipitation	8.98	5.86	
Snow			
Snow	0.00 in	0.00 in	0.00 in ()

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Charlotte, North Carolina on Thursday, July 21, 2005

Thursday
July 21 2005 Go
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Daily Summary

	Actual	Average Record	
Temperature			
Mean Temperature	°F	81°F	
Max Temperature	94°F	91°F	103°F (1
Min Temperature	72°F	71°F	57°F (18
Degree Days			
Heating Degree Days	0	0	
Month to date heating degree days	0	0	
Since 1 July heating degree days	0	0	
Cooling Degree Days	18	15	
Month to date cooling degree days	303	309	
Year to date cooling degree days	672	834	
Growing Degree Days	33 (Base °F)		
Moisture			
Dew Point	72°F		
Average Humidity	70		
Maximum Humidity	94		
Minimum Humidity	46		
Precipitation			
Precipitation	0.00 in	0.13 in	3.46 in (
Month to date precipitation	0.75	2.57	
Year to date precipitation	24.28	24.54	
Since 1 June precipitation	8.98	5.99	
Snow			
Snow	0.00 in	0.00 in	0.00 in (

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The Charlotte Observer

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Charlotte, North Carolina on Friday, July 22, 2005

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Daily Summary

	Actual	Average R	
Temperature			
Mean Temperature	°F	81°F	
Max Temperature	95°F	91°F	1
Min Temperature	71°F	71°F	5
Degree Days			
Heating Degree Days	0	0	
Month to date heating degree days	0	0	
Since 1 July heating degree days	0	0	
Cooling Degree Days	18	15	
Month to date cooling degree days	321	324	
Year to date cooling degree days	690	849	
Growing Degree Days	32 (Base °F)		
Moisture			
Dew Point	71°F		
Average Humidity	70		
Maximum Humidity	94		
Minimum Humidity	46		
Precipitation			
Precipitation	T in	0.13 in	1
Month to date precipitation	0.75	2.70	
Year to date precipitation	24.28	24.67	
Since 1 June precipitation	8.98	6.12	
Snow			
Snow	0.00 in	0.00 in	0

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Charlotte, North Carolina on Saturday, July 23, 2005

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Daily Summary

	Actual	Average Record	
Temperature			
Mean Temperature	°F	81°F	
Max Temperature	94°F	91°F	101°F (1
Min Temperature	70°F	71°F	56°F (19
Degree Days			
Heating Degree Days	0	0	
Month to date heating degree days	0	0	
Since 1 July heating degree days	0	0	
Cooling Degree Days	17	15	
Month to date cooling degree days	338	339	
Year to date cooling degree days	707	864	
Growing Degree Days	31 (Base °F)		
Moisture			
Dew Point	70°F		
Average Humidity	69		
Maximum Humidity	93		
Minimum Humidity	44		
Precipitation			
Precipitation	0.00 in	0.13 in	6.88 in (
Month to date precipitation	0.75	2.83	
Year to date precipitation	24.28	24.80	
Since 1 June precipitation	8.98	6.25	
Snow			
Snow	0.00 in	0.00 in	0.00 in ()

Charlotte.com

The Charlotte Observer

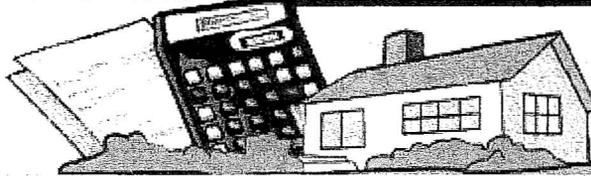
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Charlotte, North Carolina on Sunday, July 24, 2005

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Daily Summary

	Actual	Average Record	
Temperature			
Mean Temperature	°F	81°F	
Max Temperature	90°F	90°F	100°F (1
Min Temperature	69°F	71°F	57°F (19
Degree Days			
Heating Degree Days	0	0	
Month to date heating degree days	0	0	
Since 1 July heating degree days	0	0	
Cooling Degree Days	15	15	
Month to date cooling degree days	353	354	
Year to date cooling degree days	722	879	
Growing Degree Days	29 (Base °F)		
Moisture			
Dew Point	67°F		
Average Humidity	66		
Maximum Humidity	87		
Minimum Humidity	44		
Precipitation			
Precipitation	0.00 in	0.12 in	2.83 in (
Month to date precipitation	0.75	2.95	
Year to date precipitation	24.28	24.92	
Since 1 June precipitation	8.98	6.37	
Snow			
Snow	0.00 in	0.00 in	0.00 in (

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Charlotte, North Carolina on Monday, July 25, 2005

Monday
 July 25 2005 Go
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Daily Summary

	Actual	Average Record	
Temperature			
Mean Temperature	°F	81°F	
Max Temperature	96°F	90°F	100°F (1
Min Temperature	69°F	71°F	62°F (19
Degree Days			
Heating Degree Days	0	0	
Month to date heating degree days	0	0	
Since 1 July heating degree days	0	0	
Cooling Degree Days	18	15	
Month to date cooling degree days	371	369	
Year to date cooling degree days	740	894	
Growing Degree Days	32 (Base °F)		
Moisture			
Dew Point	68°F		
Average Humidity	70		
Maximum Humidity	97		
Minimum Humidity	43		
Precipitation			
Precipitation	0.00 in	0.12 in	2.34 in (
Month to date precipitation	0.75	3.07	
Year to date precipitation	24.28	25.04	
Since 1 June precipitation	8.98	6.49	
Snow			
Snow	0.00 in	0.00 in	0.00 in (