Prepared for:

North Carolina Department of Environment and Natural Resources, Ecosystem Enhancement Program Raleigh, North Carolina

Final River Bend Wetland Mitigation Plan Report

River Bend, Caswell County, North Carolina

May 2010

Final Wetland Restoration Plan Report

River Bend, Caswell County, North Carolina

Prepared for:

North Carolina Department of Environment and Natural Resources, Ecosystem Enhancement Program

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NC606001.0000

Date:

May 2010

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Executive Summary

This document is consistent with the requirements of the federal rule for compensatory mitigation project sites as described in the Federal Register Title 33 Navigation and Navigable Waters Volume 3 Chapter 2 Section § 332.8 paragraphs (c)(2) through (c)(14). Specifically the document addresses the following requirements of the federal rule:

(2) Objectives. A description of the resource type(s) and amounts(s) that will be provided, the method of compensation (i.e. restoration, establishment, enhancement, and/or preservation), and the manner in which the resource functions of the compensatory mitigation project will address the needs of the watershed, ecoregion, physiographic province, or other geographic area of interest.

(3) Site selection. A description of the factors considered during the site selection process. This should include consideration of watershed needs, onsite alternatives where applicable, and the practicability of accomplishing ecologically self-sustaining aquatic resource restoration, establishment, enhancement, and/or preservation at the compensatory mitigation project site. (See § 332.3(d).)

(4) Site protection instrument. A description of the legal arrangements and instrument, including site ownership, that will be used to ensure the long-term protection of the compensatory mitigation project site (See § 332.3(d).)

(5) Baseline information. A description of the ecological characteristics of the proposed compensatory mitigation project site and, in the case of an application for a DA permit, the impact site. This may include descriptions of historic and existing plant communities, historic and existing hydrology, soil conditions, a map showing the locations of the impact and mitigation sites(s) of the geographic coordinates for those site(s), and other site characteristics appropriate to the type of resource proposed as compensation. The baseline information should also include a delineation of waters of the United States on the proposed compensatory mitigation project site. A prospective permittee planning to secure credits from and approved mitigation bank or in-lieu fee program only needs to provide baseline information about the impact site, not the mitigation bank or in-lieu fee project site.

(6) Determination of credits. A description of the number of credits to be provided, including a brief explanation of the rationale for this determination. (See § 332.3(f).)

(7) Mitigation work plan. Detailed written specifications and work descriptions for the compensatory mitigation project; construction methods, timing, and sequence; source(s) of water, including connections to existing waters and uplands; methods for establishing the desired plant community;

plans to control invasive plant species; the proposed grading plan, including elevations and slopes of the substrate; soil management; and erosion control measures. For stream compensatory mitigation projects, the mitigation work plan may also include other relevant information, such as plan form geometry, channel form (e.g. typical channel cross-sections), watershed size, design discharge, and riparian area plantings.

(8) Maintenance plan. A description and schedule of maintenance requirements to ensure the continued viability of the resource once initial construction is completed.

(9) Performance standards. Ecologically-based standards that will be used to determine whether the compensatory mitigation project is achieving its objectives. (See § 332.5.)

(10) Monitoring requirements. A description of parameters to be monitored in order to determine if the compensatory mitigation project is on track to meet performance standards and if adaptive management is needed. A schedule for monitoring and reporting on monitoring results to the district engineer must be included. (See § 332.6.)

(11) Long-term management plan. A description of how the compensatory mitigation project will be managed after performance standards have been achieved to ensure the long-term sustainability of the resource, including long-term financing mechanisms and the party responsible for long-term management. (See § 332.7(d).)

(12) Adaptive management plan. A management strategy to address unforeseen changes in site conditions or other components of the compensatory mitigation project, including the party or parties responsible for implementing adaptive management measures. The adaptive management plan will guide decisions for revising compensatory mitigation plans and implementing measures to address both foreseeable and unforeseen circumstances that adversely affect compensatory mitigation success. (See § 332.7(c).)

(13) Financial assurances. A description of financial assurances that will be provided and how they are sufficient to ensure a high level of confidence that the compensatory mitigation project will be successfully completed, in accordance with its performance standards. (See § 332.3(n)).

The project site is located along SR 1530 (River Bend Road) near the town of Milton, in Caswell County. It is approximately one-quarter mile northwest of Milton, 15 miles northeast of Yanceyville, and 10 miles southeast of Danville, Virginia (Figure 1). The project site is bordered to the north by SR 1530 (River Bend Road), the south by the Dan River, and the east by NC 57 (Figure 2). A North Carolina Wildlife Resources Commission (NCWRC) boat ramp is located on a small parcel

adjacent the northeast corner of the property and NC 57. The land west of the site is comprised primarily of agricultural, pasture, and forested lands.

The 193.0 acre River Bend site, which is within the western portion of the Roanoke River Basin, is within USGS Hydrologic Unit 03010104021080 and North Carolina Division of Water Quality (NCDWQ) Sub-basin 03-02-04. According to NCDWQ (2006), the Dan River and its unnamed tributaries adjacent to the site are designated as Class "C" waters. Class "C" waters are suitable for aquatic life propagation and survival, fishing, wildlife, secondary recreation, and agriculture. The section of the Dan River near Milton, North Carolina, is listed as "Impaired." It is listed as impaired for aquatic life due to turbidity standard violations. It is also Impaired for recreational use due to fecal coliform bacteria exceedances. This segment will be added to North Carolina's 303 (d) list of impaired waters (NCDENR 2006b).

A monitoring site used by the NCDWQ to collect water quality and benthic macroinvertebrate samples is located on the Dan River at the NC 57 bridge and the North Carolina/Virginia state line. Data from this site produced a "Good" bioclassification rating for benthic macroinvertebrate collections in 1999, and water chemistry samples indicate a "Good" water quality condition (NCDWQ 2001). More current sampling information could not be located.

The site is not located in a NCEEP Targeted Local Watershed (TLW). However, goals identified in the Roanoke River Basin Restoration Priorities September 2009 NCEEP Draft for the HU and surrounding HUs include limiting impacts from forest harvesting and, to a lesser degree, protecting riparian vegetation from cattle grazing and reducing both non-point source pollution (agricultural, forestry) and point source pollution. The River Bend Project will establish and preserve riparian areas from impacts and reduce, if not eliminate, nonpoint source discharges from the area. The recommendation stated in the NCDWQ Basin Report for the Dan River is for local agencies "to secure funding for restoration projects in controlling nonpoint sources of pollution."

Project Goals:

- Reduce soil disturbance and nutrient inputs to surface waters
- Restore and preserve wetland, intermittent stream, and riparian habitats

Project Objectives:

- Restore wetland hydrology through removal of fill material within and adjacent to wetlands

- Plant a minimum 50-foot buffer consisting of a mixture of native species representative of Piedmont/Mountain Bottomland Forest adjacent to surface waters and within wetland restoration areas

- Eliminate past agricultural land uses

The River Bend Mitigation Site was selected for several reasons. The first being the need for mitigation credits within the hydrologic unit at the same time the site was first identified. The site is also an optimum restoration site. The land was previously used as pasture and hay production. Cattle had access to the intermittent streams and riparian areas, impacting the streams and limiting the regeneration of the riparian areas. Vegetation on other portions of the site was managed for hay production.

Currently the site is comprised of 17.42 acres of jurisdictional wetlands, 172.86 acres of uplands and 6,765.0 linear feet of intermittent streams. The wetlands are classified as Piedmont/Mountain Bottomland Forest. The uplands are comprised of 82.03 acres of Piedmont/Mountain Bottomland Forest, 17.18 acres of Dry-Mesic Oak/Hickory Forest, and 73.65 acres of Piedmont/Mountain Levee Forest.

These communities are in various successional stages due to past land uses. The early successional areas were previously used as pasture and hay production. Since the site was purchased by the NCDOT, agricultural practices have ceased and young woody vegetation has begun to establish.

Four jurisdictional intermittent streams, totaling 6,765.0 linear feet, are located on the site. Portions of the intermittent streams flow through all the communities. A 100-foot-wide Progress Energy easement crosses the western portion of the site. The easement is regularly maintained by mowing. Community types with associated acreages and linear feet of stream within the easement are not included in the discussion of existing and proposed conditions.

The site will yield 19.28 acres of riparian wetlands and 172.86 acres of uplands. The riparian wetlands are composed of 1.86 acres of Piedmont/Mountain Bottomland Forest restoration and 17.42 acres of preservation of Piedmont/Mountain Bottomland Forest. The upland communities are composed of 17.18 acres of Dry-Mesic Oak/Hickory Forest preservation, 73.65 acres of Piedmont/Mountain Levee Forest preservation and 82.03 acres of non-jurisdictional Piedmont/Mountain Bottomland Forest preservation. In addition, 6,795.0 linear feet of intermittent stream will be preserved. All non-jurisdictional areas are considered uplands. The asset amounts exclude the area located within the Progress Energy easement and the access road to the easement.

The original conceptual design for the project involved restoring wetlands by raising the ground water table through the filling of the on-site ditches. Further site investigations by a licensed soil scientist determined a significant portion of the site contained hydric soils. The Corps of Engineers agreed with the determination. Subsequent wetland delineations were conducted at the site. The Corps of Engineers verified the wetland delineation. The Corps also claimed jurisdiction on several ditches, calling them intermittent streams. Because of this determination, the design plan for the site was modified to eliminate the filling of the intermittent streams. The intermittent streams will be preserved and existing earthen spoil piles within and adjacent to existing wetlands will be removed, thus restoring these areas to Piedmont/Mountain Bottomland Forest.

The U.S. Fish and Wildlife Service (USFWS) identified one endangered species potentially occurring in Caswell County; James spinymussel (*Pleurobema collina*), and three federal species of concern (FSC) Atlantic pigtoe (*Fusconaia masoni*), Carolina bird-foot (Heller's) trefoil (*Lotus helleri*), Virginia quillwort (*Isoetes virginica*) (USFWS March 2006). Habitat for these species is not present at the site. Therefore, there will be no impact to these species.

The site will be monitored annually following the NCEEP guidelines. This monitoring will identify the site's progress toward compliance with the established success criteria. If during the monitoring period any of the success criteria are not met, the noncompliant item will be discussed with NCEEP and a corrective action plan developed.

The following items will be monitored to determine if the site is meeting the established goals:

- Woody stem density
- Diversity of woody stems
- Presence of invasive species
- Wetland hydrology

Upon completion of site construction, the NCEEP will monitor the project in keeping with the monitoring plan. Post-construction monitoring activities will be conducted to evaluate site performance, to identify maintenance and\or repair concerns, and to maintain the integrity of the project boundaries. If during the post-construction monitoring period it is determined project compliance is jeopardized, the NCEEP shall take the necessary action to resolve the project concerns and bring the project back into compliance. At the conclusion of the post-construction monitoring period, the project will be presented to the regulatory authority for project acceptance and close-out. Upon close-out the project shall be transferred to the NCDENR Division of Natural

Resource Planning and Conservation Stewardship Program for long-term management and stewardship. The North Carolina Wildlife Resource Commission also expressed interest in the site.

1. Project Site Identification and Location

The River Bend site, owned by North Carolina Department of Transportation (NCDOT), covers 193.0 acres of previously farmed agricultural land and pastureland along the Dan River. The project site is located along SR 1530 (River Bend Road) near the town of Milton, in Caswell County. It is approximately one-quarter mile northwest of Milton, 15 miles northeast of Yanceyville, and 10 miles southeast of Danville, Virginia (Figure 1). The project site is bordered to the north by SR 1530 (River Bend Road), the south by the Dan River, and the east by NC 57 (Figure 2). A North Carolina Wildlife Resources Commission (NCWRC) boat ramp is located on a small parcel adjacent to the northeast corner of the property and NC 57. The land west of the site is comprised primarily of agricultural, pasture, and forested lands.

Directions: From Raleigh, take I-40 west towards Durham. Merge onto NC 147 North (Durham Freeway). Continue on NC 147 approximately 12 miles to US 501 North. Continue on US 501 North approximately 25 miles to Roxboro. In Roxboro, US 501 North becomes US 158/NC 49/NC57. Follow US 158 West for approximately 0.3 mile. Turn right (north) on NC 57. Continue on NC 57 approximately 20 miles to Milton, North Carolina. In Milton, NC 57 becomes NC 62. Continue west on NC 62 approximately 1 mile. Turn left (south) on River Bend Road immediately after crossing the Virginia/North Carolina state line. The site is located immediately south and west of the NCWRC boat ramp on the left.

The River Bend site, which is within the western portion of the Roanoke River Basin, is within the U.S. Geological Survey (USGS) Hydrologic Unit 03010104021080 and North Carolina Division of Water Quality (NCDWQ) Sub-basin 03-02-04.

Mitigation activities are expected to result in 17.42 acres of piedmont/mountain bottomland hardwood forest wetland preservation, 6,795.0 linear feet of intermittent stream preservation and 1.86 acres of piedmont/mountain bottomland hardwood forest wetland restoration. The remaining 172.86 acres of upland communities will also be preserved. Project assets are shown in Table 1.

2. Watershed Characterization

2.1 Drainage Area

The River Bend mitigation site is approximately 193.0 acres, all owned fee simple by the NCDOT. The surface water features at the River Bend site include several ditched intermittent streams, as well as the Dan River. The drainage area for the entire site is approximately 424 acres. The drainage area is composed of two intermittent streams, both entering the Dan River on site. The western drainage area (142 acres) is comprised of two intermittent streams. They both originate in the forested hills north of River Bend Road and converge on site. The eastern drainage area (282 acres) is comprised of several small intermittent drainages also originating in the forested hills north of River Bend Road. All the drainages converge on site. An earthen access road separates the two drainage areas. (Figure 2)

2.2 Surface Water Classification/Water Quality

The River Bend site, which is within the western portion of the Roanoke River Basin, is within USGS Hydrologic Unit 03010104021080 and NCDWQ Sub-basin 03-02-04. According to NCDWQ (2006), the Dan River and its unnamed tributaries adjacent to the site are designated as Class “C” waters. Class “C” waters are suitable for aquatic life propagation and survival, fishing, wildlife, secondary recreation, and agriculture. The section of the Dan River near Milton, North Carolina, is listed as “Impaired” for aquatic life due to turbidity standard violations and Impaired for recreational use due to fecal coliform bacteria exceedances. This segment of the Dan River will be added to North Carolina’s 303 (d) list of impaired waters (NCDWQ 2006b). It is currently proposed for listing, for turbidity, in the North Carolina Draft 2010 Integrated Report Category 5-303(d) List which is currently out for public comment (NCDWQ 2010). The Integrated Report also lists all waters in North Carolina for mercury due to statewide fish consumption advice for several fish species (NCDWQ 2010).

A monitoring site used by the NCDWQ to collect water quality and benthic macroinvertebrate samples is located on the Dan River at the NC 57 bridge and the North Carolina/Virginia state line. Data from this site produced a “Good” bioclassification rating for benthic macroinvertebrate (BI = 5.42 and EPT BI = 4.52) collections in 1999, and water chemistry samples indicate a “Good” water quality condition (NCDWQ 2005). Results from a more current collection could not be located. Based on the turbidity and fecal coliform bacteria information provided in the September 2006 Roanoke River Basinwide Water Quality Plan, it appears that the bioclassification rating may change. A more recent classification could not be located.

There are no designated trout waters or outstanding water resources within the subbasin. The headwaters of County Line Creek are designated as WS-II and a small section of County Line Creek near the center of the subbasin is designated as WS-III.

2.3 Physiography, Geology and Soils

2.3.1 Physiography

Caswell County is situated within the Piedmont physiographic province of North Carolina. The Piedmont province is located in the central third of the state and stretches between the Coastal Plain and the Blue Ridge Mountains, making up about 45 percent of the state's area.

Since relief varies across the Piedmont province, two sub-regions are generally recognized: the outer piedmont, which is characterized by low relief, and the inner piedmont, which is characterized by high relief. The outer piedmont is a gently rolling upland with elevations ranging from 300 to 600 feet above mean sea level (ft MSL) (North Carolina Department of Environment and Natural Resources [NCDENR] 2002). In this outer piedmont area, narrow rift valleys formed during the Triassic period of the Mesozoic era. These valleys are called Triassic lowlands and are filled with sandstones and basalts that have been extensively weathered. The inner piedmont is an area of rugged terrain where erosion has not yet leveled the most resistant of the metamorphic rocks. Elevations gradually rise to about 1,500 ft MSL at the foot of the Blue Ridge Mountains. Softer materials have been worn away leaving erosional remnants that form a discontinuous belt of mountains termed monadnocks (North Carolina Geological Survey [NCGS] 2002). The River Bend site is located within the outer piedmont subregion.

2.3.2 Geology

The Piedmont province is an area of varied topography that ranges from lowlands to peaks and ridges of moderate altitude and relief. The metamorphic and igneous rocks of this province range in age from Precambrian to Paleozoic and have been sheared, fractured, and folded. Included in this province are sedimentary basins that formed along rifts in the Earth's crust and contain shale, sandstone, and an early Mesozoic age conglomerate, interbedded locally with basaltic lava flows and minor coal beds. The sedimentary rocks and basalt flows are intruded in places by diabase dikes and sills (USGS 2002).

According to the Geologic Map of North Carolina (NCDLR 1985), the River Bend site is underlain by metamorphic rock associated with the Milton Belt. These rocks consist of biotite, gneiss, and schist. They are best described as inequigranular, locally abundant potassic feldspar and garnet,

interlayered and gradational with calc-silicate rock, sillimate-mica schist, mica schist, and amphibolite. They may also contain small masses of granitic rock.

The project site is also located within the Dan River-Danville Basin aquifer system. The Dan River-Danville Basin extends from southern Appomattox County, Virginia, about 100 miles southwest into Stokes County, North Carolina. The basin is named Danville in Virginia and Dan River in North Carolina. The basin contains sedimentary rocks of the Upper Triassic Dan River Group, and in Virginia, the Dry Fork Formation is present. The sedimentary rocks in this basin consist of sandstone, siltstone, mudstone, shale, and local conglomerate and may be locally cut by diabase dikes.

Parent bedrock determines the type of soil systems that develop within the region. Most of Caswell County, including the River Bend site, occurs within a mixed mafic and felsic rock unit. This unit is a very complex area of granites, diorites, gabbros, and other rocks occurring in proximity to each other. Both geologic erosion and landform creep have mixed the near surface material so that it is often impossible to determine the association of soil to bedrock (Daniels et al. 1999).

2.3.3 Soils

The Natural Resources Conservation Service (NRCS) Soil Survey of Caswell County maps the following soil units within the project area:

1. Comus fine sandy loam

2. Dan River loam

3. Codorus-Hatboro complex

4. Udorthents

Four of the five soil types within the mapping units (including the Codorus and Hatboro series) are floodplain soils that are classified as Inceptisols, the exception being Udorthents. Based on their location on the landscape, it is likely that these soils have, or once had, a hydrologic regime that would classify as “wetland hydrology.” However, Inceptisols are soils that are very young in development and may not have yet developed the morphological indicators that would classify them as “hydric soil.” For this reason, other site-specific parameters were identified and used to establish the limits of “hydric soil” within the River Bend Mitigation Site. Site-specific parameters include redoximorphic depletions of chroma 3 or less within 12 inches of the surface accompanied by redoximorphic concentrations such that the redoximorphic features collectively compose at least 20

percent of the matrix volume. To a lesser extent, oxidized rhizoshperes within the A-horizon and soil saturation within 10 inches of the surface we also used.

2.4 Historical Land Use and Development Trends

Research indicates that the site was in agricultural use for more than 50 years. Aerial photography shows the site as being very similar to its condition prior to the NCDOT acquisition of the property. The fields, drainage ditches, and streams are in relatively the same locations now that they were then. In the past, the property was managed for cattle and hay production. Vegetation on site was either mowed for hay or grazed by cattle. However, since NCDOT purchased the parcel, vegetation has grown considerably. The site is nearly completely covered in sapling trees.

The majority of the watershed is undeveloped, consisting of agricultural land (pasture and hayfields) and forested areas. The remaining areas are comprised of rural residential homes and roadways. Given the small size of the watershed (424 acres) and the steep topography of the headwaters, additional development in the watershed is not expected. A small undeveloped portion of the floodplain to the west of the site is used as pastureland. This is the only area that could reasonably be developed. However, the entire floodplain of the Dan River is designated as Floodway Zone AE. Development in a floodway is restricted.

2.5 Watershed Planning

NCEEP develops River Basin Restoration Priorities (RBRP) to guide its restoration activities within each of the state's 54 Cataloging Units (CU). The site is not located in a NCEEP Targeted Local Watershed (TLW). However, goals identified in the Roanoke River Basin Restoration Priorities September 2009 NCEEP Draft for the HU and surrounding HUs include limiting impacts from forest harvesting and, to a lesser degree, protecting riparian vegetation from cattle grazing and reducing both NPS (agricultural, forestry) and point source pollution. The River Bend Project will establish and preserve riparian areas from impacts and reduce, if not eliminate, nonpoint source discharges from the area. The recommendation stated in the NCDWQ Basin Report for the Dan River is for local agencies "to secure funding for restoration projects in controlling nonpoint sources of pollution."

The Upper Dan River Watershed Protection Plan was prepared by the Piedmont Land Conservancy under a grant from the North Carolina Clean Water Management Trust Fund to guide conservation efforts in the upper Dan River watershed. The plan identified areas in the upper Dan River watershed targeted for protection and restoration activities. While the River Bend area is not identified in the plan, the plan does state that riparian corridors throughout the river basin are priority areas for protection (Piedmont Land Conservancy 2006).

2.6 Endangered/Threatened Species

Some populations of fauna and flora have been, or are, in the process of decline due to either natural forces or their inability to coexist with humans. Federal law (under the provisions of Section 7 of the Endangered Species Act of 1973, as amended [ESA]) requires that any action likely to adversely affect a species classified as federally protected be subject to review by the United States Fish and Wildlife Service (USFWS). Other species may receive additional protection under separate laws.

The Caswell County endangered species list, published by the USFWS and dated April 27, 2006, includes one endangered species potentially occurring in Caswell County: the James spinymussel (Pleurobema collina). The list also notes three federal species of concern (FSC) potentially occurring in Caswell County: Atlantic pigtoe (Fusconaia masoni), Carolina bird-foot (Heller's) trefoil (Lotus helleri), and Virginia quillwort (Isoetes virginica). Species listed as federally endangered are considered to be in danger of extinction throughout all or a significant portion of their range. FSC species are those species that may or may not be listed in the future.

The North Carolina National Heritage Program (NCNHP) identifies another four species receiving protection under state laws as potentially occurring in the county. The state and federally listed species, their habitat requirements, and habitat availability within the site is presented below. Biological conclusions address potential impacts, if applicable, to each species as a result of project implementation. A review of the NCNHP database was conducted in 2006 for known populations or occurrences at or near the study area. No species or populations were noted.

James Spinymussel (*Pleurobema collina*)

Federal Status: ENDANGERED

State Status: Not Listed

The James spinymussel is one of only a few freshwater mussels where prominent spines can be found on juvenile shells. Adults have a dark brown shell, and the spines are typically absent or reduced. It is a short-term brooder that releases glochidia in summer (late May through early August). The fish hosts for this mussel are thought to include rosyside dace (Clinostomus funduloides), bluehead chub (Nocomis leptocephalus), mountain redbelly dace (Phoxinus oreas), blacknose dace (Rhinichthys atratulus), central stoneroller (Campostoma anomalum), rosefin shiner (Lythrurus ardens), satinfin shiner (Cyprinella analostanus), and swallowtail shiner (N. procne).

The James spinymussel is found in waters with slow to moderate current, a moderate gradient, and relatively hard water on sand and mixed sand and gravel substrates. Based on collection records, the James spinymussel was endemic to the upper James River drainage north of Richmond,

Virginia. It currently is restricted to a few small headwater tributaries in Virginia, West Virginia, and North Carolina. This mussel is suspected to have experienced an approximately 90 percent reduction in range. Threats to the current populations of the James spinymussel are primarily related to industrial and agricultural development within sensitive watersheds and the increasing populations of Asian clam (Corbicula fluminea), which can out compete most of the native mussel species.

Biological Conclusion: No Effect

Suitable habitat consisting of waters with slow to moderate current, a moderate gradient, and sand and mixed sand and gravel substrates are present in many sections of the Dan River. No work will take place in the Dan River. All work will be limited to the Dan River floodplain and conducted with appropriate erosion control measures. Also, a review of the NCNHP database of rare species and unique habitats on 26 February 2002 revealed no record for the presence of the James spinymussel within the project vicinity.

2.7 Cultural Resources

An archaeological survey and evaluation was conducted at the project site in August 2002 (The Louis Berger Group, Inc., 2002). The survey identified a previously unrecorded archaeological site, 31CS73. Site 31CS73 is located in the southwestern portion of the site near the confluence of the drainage ditch and the Dan River. No work, including soil preparation for planting, will take place in the vicinity of the site. A 2006 review of the archaeological location files showed four previously recorded prehistoric archaeological occurrences (31CS13, 44HA29, 44HA30, and 44HA31) and one architectural resource, (Milton Historic District) within one mile of the project. These locations do not occur within the project area and will not be impacted.

2.8 Potential Constraints

Three potential constraints exist on site: the previously unrecorded archaeological site (31CS73), potential hydrologic trespass on the property to the west, and a Progress Energy transmission line which crosses the site. The archaeological site is discussed above. Discussions relevant to potential hydrological trespass and Progress Energy transmission lines are discussed in sections 2.8.3 and 2.8.4.

2.8.1 Property Ownership and Boundary

The 193.0-acre site is currently owned by the State of North Carolina. The site was purchased in 2001 by the NCDOT for the purpose of wetland restoration.

The development of the site for wetland restoration has been transferred to NCEEP. Therefore, project related issues should be directed to:

Watson Ross
Project Manager
North Carolina Ecosystem Enhancement Program
1652 Mail Service Center
Raleigh, NC 27699-1652

2.8.2 Site Access

The River Bend site is accessible via River Bend Road. There are two openings in the fence between River Bend Road and the site. One is located near the western end of the project where an unimproved dirt road provides access to a Progress Energy transmission line easement. The second is located near the middle of the project. This location appears to be the previous access location while the site was used for agriculture. There is no road at this location.

2.8.3 Utilities

A high-voltage transmission power line and five freestanding metal towers owned by Progress Energy cross the site diagonally, between the northwestern property corner and the south-central edge of the site. Progress Energy has been contacted regarding their requirements for maintenance access to this transmission line. Their concern is the type of vegetation planted within their easement. Since NCEEP cannot obtain mitigation credits within utility line easements, this area is not included in the calculation of mitigation credits and will not be planted.

2.8.4 FEMA/Hydrologic Trespass

The site is located in a Federal Emergency Management Association (FEMA) Floodway Zone AE, areas of flooding, as shown on FEMA Flood Insurance Rate Map of Caswell County, North Carolina, Community-Panel Number 3711903100J, effective date September 28, 2007. Floodway Zone AE indicates those areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increase in flood height.

Hydrologic trespass is not expected to be an issue at the River Bend site. There will not be any hydrologic changes to the site. The only grading that will occur will be the removal of several earthen mounds.

3. Project Site Streams

The NCDWQ defines a perennial stream as a clearly defined channel that contains water for the majority of the year. These channels usually have some or all of the following characteristics: distinctive streambed and bank, aquatic life, and groundwater flow or discharge. The Dan River is classified as jurisdictional waters and a perennial stream. It is the only perennial stream on the site. Intermittent streams are well-defined channels that contain water for only part of the year, typically the winter and spring. The flow may be heavily supplemented by stormwater runoff (NCDWQ 2005). There are four intermittent, jurisdictional streams, totaling 7,068 linear feet, located within the River Bend Mitigation Site (Figure 4). The streams scored between 31 and 36 on the United States Army Corps of Engineers (USACE) Stream Classification Form. The local Corps agent completed the classification forms and provided only the final scores.

Intensive surveys of the existing streams were not conducted. The streams are intermittent channels targeted for preservation. Surveys conducted consist of visual observations. Channel measurements were not taken.

Stream restoration is not being pursued on the intermittent streams for several reasons. The streams are stable in the current condition. Bed features could be added. However, bed features provide little benefit in intermittent streams. The option of added check dams in order to increase the retention time of water was investigated. Currently, there are high spots in the streams that provide this function. Additional checks are not required.

3.1 Existing Conditions Survey

S1 is the longest stream on the Riverbend Mitigation Site. It originates on site approximately 500 feet east of the earthen access road. It flows easterly across the site approximately 4,500 linear feet then enters the Dan River approximately 1,400 feet upstream of the State Route 62 bridge. S1 ranges between 10 and 15 feet wide. The bank height ranges from less than 1 foot at its headwaters to over 15 feet at its confluence with the Dan River. The sand/silt bottomed stream lacks sinuosity and bed features.

S2 originates in the hills north of the site and River Bend Road. It enters the site through a 36 inch reinforced concrete pipe (RCP) under the roadway. It flows south approximately 400 feet to its confluence with S1. S1 is approximately 5 to 10 feet wide, has a sand/silt substrate, low sinuosity and lacks bed features.

S3 also originates in the hills north of the site. It enters the site through a 36-inch RCP under River Bend Road and flows southeasterly, parallel to the earthen access road, across the site

approximately 2,000 linear feet to its confluence with the Dan River. The channel is 5 to 10 feet wide with bank heights ranging from 3 feet where it enters the site to over 15 feet where it exits the site. It has a sand/silt substrate, low sinuosity and lacks bed features. There is a narrow fringe of wetlands adjacent to the stream within the stream banks in the stream upper reaches on site.

S4 is a tributary to S3 and is approximately 200 linear feet. Its bank heights are approximately 3 feet. Its substrate, sinuosity and bed features are identical to the other streams on site.

3.2 Channel Classification

Measurements were not taken on the existing streams. The original restoration plan identified the streams as ditches and they were slated to be filled in order to restore wetlands on the site. Subsequently, the USACE claimed jurisdiction on the ditches, identifying them as intermittent streams. Since restoration work was not and is not proposed on the streams, morphological measurements were not collected.

3.3 Valley Classification

The restoration site is located within a Valley Type VIII. This valley type has multiple river terraces positioned along broad valleys with gentle slopes (Rosgen 1996). Soils in this valley type are developed over alluvium from riverine processes.

3.4 Discharge

Channel discharge was not calculated or estimated. No modification will be made to the existing intermittent stream. Discharge estimates are not required for preservation.

3.5 Channel Morphology

Morphological measurements were not collected. They are not required for intermittent stream preservation.

3.6 Channel Evolution

Restoration is not proposed on the existing intermittent streams. Currently, the intermittent streams appear stable with a fairly contiguous riparian buffer. Forgoing any significant changes in the environment, the existing stream morphology is not expected to change.

3.7 Channel Stability Assessment

Stability assessments were not conducted. The existing intermittent streams are proposed for preservation. Visual observations over the past 2-3 years indicate that the streams are stable.

3.8 Bankfull Verification

Bankfull verification was not conducted. Verification is not required for intermittent stream preservation.

3.9 Vegetation Community Types Descriptions and Disturbance History

Vegetative communities present at the site were categorized using Classification of the Natural Communities of North Carolina, Third Approximation (Schafale and Weakley 1990). Natural communities are defined as “distinct and re-occurring assemblages of populations of plants, animals, bacteria, and fungi naturally associated with each other and their physical environment.” These communities are in a constant state of transition based on current and previous land uses. Some of the community names have been modified to better reflect field observations. Based on field surveys, three natural communities are present at the River Bend site: Piedmont/Mountain Bottomland Forest, Dry Mesic Oak/Hickory Forest and Piedmont/Mountain Levee Forest.

4. Reference Stream

Stream restoration or enhancement is not proposed for the existing streams. Therefore, a reference stream was not located and studied.

5. Project Site Wetlands

5.1 Jurisdictional Wetlands

Section 404 of the Clean Water Act requires regulation of discharges into "Waters of the United States." The United States Environmental Protection Agency (USEPA) is the principal administrative agency of the Clean Water Act; however, the USACE has the responsibility for implementation, permitting, and enforcement of the provisions of the Act. The USACE regulatory program is defined in 33 CFR 320-330.

Water bodies, including lakes, rivers, and streams, are subject to jurisdictional consideration under the Section 404 program. Wetlands are also identified as "Waters of the United States." Wetlands, defined in 33 CFR 328.3, are those areas that are inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Any action that proposes to place fill into these areas falls under the jurisdiction of the USACE under Section 404 of the Clean Water Act (33 U.S.C. 1344). "Waters of the United States" are also regulated by the NCDWQ.

Approximately 18.6 acres of riverine wetlands are located within the Riverbend Mitigation Site. All delineations were based on the USACE Wetlands Delineation Manual (1987). The locations of all wetland boundaries were flagged in the field during September 2008 and verified by the USACE in October 2008. The vegetative communities within the wetlands are at various stages of succession, but consist of species that would typically comprise a Piedmont/Mountain Bottomland Forest. Figure 5 shows the location of the existing areas determined to be wetlands. Appendix B includes the wetland data forms. The wetland communities are discussed in more detail in Section 5.4.

5.2 Hydrologic Characterization

It appears the natural drainage of the River Bend site has been altered to facilitate drainage for agriculture and pasture lands. Existing streams and low areas were ditched to assist with the removal of surface runoff. Typically, streams in broad, flat valleys meander throughout the valley. All streams are uncharacteristically straight.

The Southeast Regional Climate Center (SERCC) maintains a regional weather monitoring station in Danville, Virginia, which is approximately 10 miles northwest of the River Bend site. Based on 48 years of weather data collected at this weather monitoring station, the average annual rainfall for the area is between 43 and 44 inches (SERCC 2002). The highest average annual rainfall recently

recorded occurred during 1995 and 1996, when amounts ranged from 52 to 60 inches. The higher amount recorded for 1996 was most likely influenced by Hurricane Fran, which crossed the central Piedmont during September of that year. It should also be noted that substantially lower amounts ranging from 39 inches in 2000 to 26 inches in 2001 were recorded, indicating a period of drought for the geographic area at the beginning of the last decade.

Twenty-two shallow monitoring gauges are currently located within the study area. The gauges are installed in three transects running perpendicular across the site between River Bend Road and the Dan River. The gauges were installed on the site in March 2006 and downloaded through February 2007. Groundwater level readings were collected once daily. The data from these gauges is presented in Appendix C and their locations are shown in Figure 4. Four additional gauges were installed at the site during the soil mapping field effort. These gauges were not downloaded after their installation. Their location are shown in Figure 4.

Prior to NCEEP assuming management of the site, the site was being administered by NCDOT. NCDOT's geotechnical unit installed 13 gauges on the site in 2001. The gauges were located strategically throughout the site. Groundwater level readings were recorded eight times daily (every 3 hours). Continuous data were collected between January 2002 and October 2002. These gauges were removed in March 2007. They were provided to NCEEP in hopes they would be able to retrieve the data. Data from six of the gauges was retrieved for various periods between April 2002 and March 2007. The data from these gauges are presented in Appendix D and their locations are shown in Figure 7.

The results of all the gauge data show that wetland hydrology exists in various locations throughout the site. Hydric soils mapping and wetland delineations were performed at the site. Figure 5 shows the extent of hydric soils and jurisdictional wetlands.

5.2.1 Hydrologic Budget for Restoration Site

Hydrologic inputs to the site are precipitation, surface water inflow and groundwater inflow. Hydrologic outputs are evapotranspiration, surface and ground water out flow. Surface water inflow is provided by two major sources, overbank events from the Dan River and more regularly runoff from the surrounding area. Riverbend Road and the hills to the north are the main contributors of surface runoff to the site. Approximately 4.5 acres of impervious surface area drain directly to the site via roadway ditches, culverts and the ditches discussed above. Currently, these ditches transport the roadway runoff directly to the Dan River, via the intermittent streams.

The wetland restoration areas currently consist of earthen mounds adjacent to and surrounded by existing wetlands. The restoration of these areas will be accomplished by removing the mounds

and grading the area to conform to the adjacent wetland elevations. There is an adequate hydrologic budget to support the existing wetlands and the restoration areas if the fill was not present.

5.3 Soil Characterization

The process of soil development depends on both biotic and abiotic influences. These influences include past geologic activities, nature of parent materials, environmental and human influences, plant and animal activity, time, climate, and topographic position. Natural Resources Conservation Service (NRCS) is in the process of updating the soil survey for Caswell County. The information presented below is based on preliminary mapping by NRCS and Official Soil Series Descriptions provided by NRCS. Based on the preliminary mapping, four soil series are mapped within the project area: Comus fine sandy loam, Dan River loam, Codorus-Hatboro complex, and Udorthents.

5.3.1 Taxonomic Classification

Preliminary Map Unit 2A – Comus fine sandy loam, 0 to 2 percent slopes, occasionally flooded

Comus soils are located on floodplains and form in alluvial deposits with moderate to high levels of mica. The soil is very deep with the bedrock being more than 6 feet below the surface. The soil is well drained, and surface runoff is slow. Hydraulic conductivity is moderately high to high, and the pH ranges from very strongly acid to moderately acid throughout the profile. Within the project area, the Comus soils are mapped immediately adjacent to the river.

Preliminary Map Unit 3A – Dan River loam, 0 to 3 percent slopes, occasionally flooded

Dan River soils are located on floodplains and form in alluvial deposits. The soil is very deep with the depth to bedrock being greater than 5 feet below the surface. The soil is well drained, and surface runoff is negligible to low. The soil may be flooded frequently to occasionally for brief periods. Dan River soils are moderately permeable and range from very strongly acid to slightly acid throughout. Within the project area, the Dan River soils are mapped immediately adjacent to the river in the eastern portion of the project area and to the north of the Comus fine sandy loam in the western portion of the project area.

Preliminary Map Unit 4A – Codorus-Hatboro complex, 0 to 2 percent slopes, frequently flooded

This map unit is a complex of Codorus and Hatboro soils that are intermingled too closely to be mapped separately. A description of each series is provided in the following paragraphs. Within

the project area, the complex is mapped along the northern edge of the property adjacent to River Bend Road.

Codorus soils are located on floodplains and form in recently deposited alluvial materials derived from upland soil materials that are weathered from mostly metamorphic and crystalline rocks. The soil is very deep with the bedrock being more than 6 feet below the surface. The soil is moderately well to somewhat poorly drained with low runoff. Codorus soils have a moderately high hydraulic conductivity in the upper 40 inches of the profile. The pH of the soil ranges from very strongly acid to moderately acid in the upper part of the solum and from strongly acid to slightly acid in the lower part of the solum and the C horizon.

Hatboro soils are located on floodplains and form in alluvial materials derived from metamorphic and crystalline rock. The soil is very deep with the bedrock being 5 to 10 feet or more below the surface. The soil is poorly drained with high to very high surface runoff rates. The hydraulic conductivity for the soil is moderately high to high, and the pH ranges from very strongly acid to neutral in the upper 30 inches of the profile.

Preliminary Map Unit 6 – Udorthents, loamy, (cut and fill) (borrow pits)

Udorthents soils are located on upland ridges and side slopes and are commonly adjacent to urban areas. The soil is often derived from cut and fill material from loamy and clayey upland soils. Due to the soils being modified and not having developed in place through natural processes, characteristics vary widely and are specific to the source of the fill material.

Hydric soils are defined as soils that are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions that favor the growth and regeneration of hydrophytic vegetation (Cowardin, et al. 1979). As the soil series that are preliminarily mapped in the project area are not included in the previous version of the list of hydric and partially hydric soils in Caswell County, a list of the hydric and partially hydric soils mapped within the project area cannot be provided based on a published list of hydric soils. However, soil profiles were assessed onsite in 2007by a licensed soil scientist, Michael Wood of The Catena Group in cooperation with ARCADIS. The hydric soil line, as determined by Mr. Wood, generally correlates with the mapping of Dan River loam and portions of the Codorus-Hatboro complex soils within the project area. The hydric soils area, as determined by Mr. Wood, covers approximately one-third of the project area. The extent of the mapped hydric soils is shown in Figure 5.

5.3.2 Profile Descriptions

Representative soil profile descriptions are presented below. Soil sample locations are shown in Figure 7.

Profile 01 (adjacent to gauge A) – Hydric Soil

0-3" – dark yellowish-brown (10YR 4/4) clay loam; granular structure; many roots

3-5" – dark yellowish-brown (10YR 4/4) clay loam; common, fine, faint brown (10YR 5/3) redox depletions; oxidized root channels

5-12" – yellowish-brown (10YR5/4) loam; many, fine, distinct yellowish-red (5YR 5/8) redox concentrations and few, fine, faint brown (10YR 5/3) redox depletions; few soft Mn masses

12-20" – yellowish-brown (10YR 5/4) loam; many, fine, distinct yellowish-red (5YR 5/8) redox concentrations, common, very fine, faint brown (10YR 5/3) redox depletions, and few, very fine, distinct grayish-brown (10YR 5/2) redox depletions; soft Mn masses near 20" common

20-30" – brown (7.5YR 5/4) fine sandy loam; common, fine, distinct grayish-brown (10YR 5/2) redox depletions and few, fine, distinct gray (10YR 5/1) redox depletions; soft Mn masses common

30-52" – reddish-brown (5YR 4/4) very fine sandy clay loam; many, medium, prominent grayish-brown (10YR 5/2) and gray (10YR 5/1) redox depletions; few Mn concretions

52-60" – reddish-brown (5YR 4/4) sandy clay loam; many, medium, prominent light brownish-gray (10YR 6/2) and gray (10YR 6/1) redox depletions; few Mn concretions

*Free water in pit at 8"

*Surrounding vegetation: Salix nigra, Fraxinus pennsylvanica, Acer negundo, Liquidambar styraciflua

Profile 03 (approximately 400 ft south of Profile 08) – Non-Hydric Soil

0-2" – brown (10YR 4/3) loam

2-21" – dark yellowish-brown (10YR 4/6) very fine sandy loam

21-27” – dark yellowish-brown (10YR 4/6) very fine sandy loam; common, distinct yellowish brown (10YR 5/4) redox depletions and few, distinct strong brown (7.5YR 5/8) redox concentrations

27-40” – dark brown (7.5YR 3/2) very fine sandy loam

40-53” – dark brown (7.5YR 3/3) very fine sandy clay loam

53-60+” – dark brown (7.5YR 3/3) very fine sandy clay loam; faint redoximorphic features throughout

*Free water in pit at 26”

Profile 04 (approximately 400 ft SSE from Profile 01) – Non-Hydric Soil

0-14+” – brown (7.5YR 4/4) loam

Profile 08 (near gauge G) – Hydric Soil

0-3” – dark yellowish-brown (10YR 4/4) clay loam; granular structure; friable

3-9” – dark yellowish-brown (10YR 4/4) clay loam, subangular blocky structure; friable; many, distinct brown (10YR 5/3) redox depletions; oxidized root channels

9-12+” – brown (10YR 5/3) clay loam; common, faint grayish-brown (10YR 5/2) redox depletions and many, distinct strong brown (7.5YR 5/8) redox concentrations

*No free water in pit; profile was taken next to ditch, which is likely drawing water table down.

Profile 11 (adjacent to gauge B) – Non-Hydric Soil

0-2” – dark yellowish-brown (10YR 4/4) loam

2-13” – strong brown (7.5YR 5/6) sandy loam

13-22+” – strong brown (7.5YR 4/6) coarse sandy loam; common, distinct redox depletions with chroma of 2 appear at 19”

Profile 14 (approximately 400 feet ESE of gauge B) – Hydric Soil

0-3” – brown (7.5YR 4/4) loam; common, faint brown (7.5YR 4/3) redox depletions;

3-8” – brown (7.5YR 4/4) sandy loam; friable; subangular blocky structure; common, distinct brown (10YR 5/3) redox depletions; oxidized root channels common

8-12+” – strong brown (7.5YR 5/6) sandy loam; very friable; many, distinct brown (10YR 5/3) redox depletions

*saturation at 12”

Profile 27 (approximately 400 feet W of Profile 33) – Non-Hydric Soil

0-14” - dark grayish-brown (2.5Y 4/2) loam; very friable; subangular blocky structure

14-20+” – brown (7.5YR 5/3) loam; very friable; subangular blocky structure

*soil wetness at 14”

Profile 33 (near gauge L) – Hydric Soil

0-15” – dark grayish-brown (2.5Y 4/2) loam; very friable; subangular blocky structure; common, distinct brown (7.5YR 5/3) redox depletions

*Soil wetness at 8”

Profile 58 (between gauges C and I) – Hydric Soil

0-20” – dark grayish-brown (2.5Y 4/2) loam; very friable; subangular blocky structure; common, distinct brown (7.5YR 5/3) redox depletions

*soil wetness at 10”

Profile 60 (approximately 200 feet NE of Profile 58) – Non-Hydric Soil

0-16+” – dark yellowish-brown (10YR 4/4) loam; friable; subangular blocky structure

Profile 68 (approximately 350 feet SSE of Profile 73) – Non-Hydric Soil

0-5" - dark yellowish-brown (10YR 4/4) loam; friable; subangular blocky structure; common, distinct redox concentrations with chroma's greater than 3

5-14+" - dark yellowish-brown (10YR 3/4) loam; friable; subangular blocky structure; common, distinct redox concentrations with chroma's greater than 3

Profile 73 (near gauge E) – Hydric Soil

0-7" - dark yellowish-brown (10YR 4/4) loam; friable; subangular blocky structure; common, distinct grayish-brown (10YR 5/2) redox depletions

7-12+" - dark yellowish-brown (10YR 3/4) loam; friable; subangular blocky structure; common, distinct brown (10YR 5/3) and grayish-brown (10YR 5/2) redox depletions

5.4 Vegetation Community Type Descriptions and Disturbance History

Based on field surveys, three natural communities are present at the River Bend site: Piedmont/Mountain Levee Forest, Piedmont/Mountain Bottomland Forest, and Dry-Mesic Oak/Hickory Forest. The locations of these vegetative communities are shown in Figure 6.

5.4.1 Piedmont/Mountain Levee Forest

The wide riparian forest corridor adjacent to the Dan River is best defined as a Piedmont/Mountain Levee Forest. This area was previously cattle pasture and crop land. Since the site has not been in agricultural use for several years, Piedmont/Mountain Levee Forest has begun to establish. These forests are found along natural levees bordering rivers and streams on large floodplains. Their hydrology is palustrine, seasonally or intermittently flooded. The periodic input of nutrients in flood-deposited sediment makes levee sites very fertile, and growth is rapid in these communities (Shafale and Weakley 1990). The canopy at the River Bend site is dominated by box elder (*Acer negundo*), green ash (*Fraxinus pennsylvanica*), hackberry (*Celtis laevigata*), American elm (*Ulmus americana*), and river birch (*Betula nigra*). Scattered elderberry (*Sambucus canadensis*) and saplings of the mature canopy species account for dominant species in the sparse understory, and the vine/herb layer is dominated by poison ivy (*Toxicodendron radicans*) and violets (*Viola* sp.). Approximately 74.0 acres of early successional and mature levee forest were observed at the River Bend site.

5.4.2 Piedmont/Mountain Bottomland Forest

The Piedmont/Mountain Bottomland Forest is found along floodplain ridges and terraces other than active levees adjacent to the Dan River. Its hydrology is palustrine, intermittently flooded (Shafale and Weakley 1990).

Dominant canopy species include green ash, sycamore (*Platanus occidentalis*), box elder, sweetgum (*Liquidambar styraciflua*), and Southern sugar maple (*Acer barbatum*). The understory is scattered with silky dogwood (*Cornus amomum*), American elm, and saplings of the canopy species. A small depressional area within this stand is somewhat open, and has shrubby species such as buttonbush (*Cephalanthus occidentalis*) and black willow (*Salix nigra*) along the edge. Herbaceous species, including lizard's tail (*Saururus cernuus*) and sedge (*Carex* sp.), occur near the center of the wetland. This bottomland forest community covers approximately 82.0 acres.

There are 11 separate jurisdictional wetlands areas totaling 18.61 acres on site. These wetlands are located within the Piedmont/Mountain Bottomland Forest community. Vegetation in the wetlands is at different successional phases based on past land use. A portion of the wetlands are located within the Progress Energy easement.

5.4.3 Dry-Mesic Oak/Hickory Forest

One area of Dry-Mesic Oak/Hickory Forest is located at the River Bend site. This narrow area is located on the hillside immediately south of River Bend Road and covers approximately 17.0 acres. The highest elevations on site occur in this area. As with the majority of the site, this area was in agriculture 5 years ago. Since agricultural practices have ceased, trees have begun to develop.

6. Reference Wetlands

A reference wetland site optimally is a functioning climax wetland community with characteristics that are to be restored at the mitigation site and which is located near the project area. The reference site characteristics should include similar soils, vegetation, and hydrology as the proposed restoration site. The wetland restoration areas abut existing target wetland communities. The existing on-site wetlands served as the reference wetlands.

6.1 Hydrologic Characterization and Gauge Data Summary

The existing on-site wetlands will serve as the reference wetland. See discussion in Section 5.2 for a discussion on hydrologic characterization and gauge data.

6.2 Soil Characterization

The existing on-site wetlands will serve as the reference wetland. See discussion in Section 5.3 for a discussion on soil characterization. Profiles 1, 8, 14, 33, 58, and 73 are representative hydric soil profiles.

6.3 Plant Community Characterization

The existing on-site wetlands will serve as the reference wetland. See discussion in Section 5.4 for a discussion on plant community characterization.

7. Project Site Restoration Plan

7.1 Overarching Goals and Applications of Restoration Plan

In striving to maximize ecological benefit, ARCADIS has developed the following mitigation plan for the River Bend site. For several years, agricultural practices (live stock grazing and hay production) have acted as the primary stressor to the site. The site was cleared of native riparian vegetation and ditched to suit agricultural land use. This lowered the water table in the area, eliminated natural riparian habitat, and depleted the nutrient reduction capabilities of the floodplain. ARCADIS evaluated the site to determine the level of restoration that would be necessary to correct the problems caused by the past land use practices. Originally, ARCADIS intended to fill the on-site ditches to raise the water table to pre-agricultural conditions. The USACE took jurisdiction over the ditches, identifying them as intermittent streams. This made the original design impossible to implement. ARCADIS reevaluated the project and determined that removing existing earthen spoil piles adjacent to and within the existing wetlands and replanting this area with native species would provide the most ecological uplift for the floodplain. The option of intermittent stream restoration was explored. However, this was ruled out due to the minimum amount of stream available for restoration compared to resultant ecological uplift and construction cost. Table 2 details the linkages between project stressors and proposed restoration activities and outlines assessment criteria and monitoring parameters. The goals and objectives of this project are outlined in Section 7.2.

7.2 Restoration Project Goals and Objectives

The site is not located in a NCEEP TLW. However, goals identified in the Roanoke River Basin Restoration Priorities September 2009 NCEEP Draft for the HU and surrounding HUs include limiting impacts from forest harvesting and, to a lesser degree, protecting riparian vegetation from cattle grazing and reducing both non-point source pollution (agricultural, forestry) and point source pollution. The River Bend Project will establish and preserve riparian areas from impacts and reduce, if not eliminate, nonpoint source discharges from the area. The recommendation stated in the NCDWQ Basin Report for the Dan River is for local agencies “to secure funding for restoration projects in controlling nonpoint sources of pollution.” Goals for the project include:

- Reduce soil disturbance and nutrient inputs to surface waters
- Restore and preserve wetland, intermittent stream, and riparian habitats

The project objectives include:

- Restore wetland hydrology through removal of fill material within and adjacent to wetlands
- Establish a minimum 50-foot buffer consisting of a mix of native species representative of piedmont/mountain bottomland hardwood forest adjacent to surface waters
- Eliminate past agricultural land uses

7.2.1 Designed Wetland Type

Piedmont/Mountain Bottomland Forest wetlands, within the floodplain of the Dan River, will be restored adjacent to an intermittent tributary to the Dan River.

7.2.2 Target Wetland Communities/ Buffer Communities

Based on the data collected from the on-site reference community and Classification of the Natural Communities of North Carolina (Schafale and Weakley 1990), it was determined that the community that likely occurred naturally on and around the River Bend site was influenced by infrequent riverine flooding. The slight variations in topography, as well as hydrology and soil types, will influence the plant species and community types that will occur in a riverine floodplain. Considering these variables, as well as existing conditions at the site, areas of Piedmont/Mountain Bottomland Forest will be restored and preserved.

7.2.3 Hydrologic Trespass

Hydrologic trespass is not expected to be an issue at the River Bend site. On-site streams and ditches will not be filled. The site will continue to drain as it has in the past.

7.3 Site Construction

7.3.1 Site Grading

7.3.1.1 Narrative

Existing piles of earthen material will be removed and the area graded to the elevation of the adjacent wetland community. After or concurrent with the grading, these areas will be ripped in preparation for planting. Ripping will eliminate soil compaction caused by past agricultural practices.

7.3.1.2 Scaled Schematic of Grading

All design aspects are shown on the design sheets.

7.3.2 Native Plant Community Restoration

A piedmont/mountain bottomland forest buffer will be established within the restoration area. Trees and shrubs will be planted within the floodplain at a spacing of 10 feet by 10 feet, resulting in a density of approximately 436 stems per acre.

7.3.2.1 Soil Preparation and Amendments

Prior to the installation of plants and seeds on areas re-graded, lime will be applied at a rate of 4,000 lbs/acre and 10-10-10 fertilized at a rate of 1,000 lbs/acre. All graded areas will be ripped and raked prior to planting. Natural vegetation is establishing over the site. These areas will not be ripped.

7.3.2.2 Narrative of plant community restoration that correlates with the Planting Plan as depicted on the Restoration Plan Design Sheets

The central section of the River Bend site, running in an east/west direction, is most similar to a Piedmont/Mountain Bottomland Forest community. The dominant vegetation in the area is box elder, American elm, and green ash, with a sparse understory of saplings of these species, as well as some sweet gum, Southern sugar maple and tulip poplar. A continuous riparian buffer 50 feet wide will be established adjacent to the intermittent streams. The re-graded areas will also be planted with bottomland species. Tree species planted within the bottomland community will consist of a selected mixture of Quercus pagoda, Quercus michauxii, Ulmus americana, Celtis laevigata, Carya ovata, and Carya cordiformis. Understory species will included Carpinus caroliniana, Cornus florida, Ilex opaca and Asimina triloba. Shrubs species will include Aesculus sylvatica, Eronymus americana, and Arundinaria gigantea.

7.3.2.3 Narrative of invasive species management

Small areas of tree of heaven (*Ailanthus altissima*) and Chinese privet are located throughout the site. Removal method depends on the location of the trees. Trees located within an excavation area will be removed by excavating the tree roots and all, without compromising the integrity of the wetland restoration. Trees outside of excavation will be cut and the stumps treated with an appropriate herbicide. Trees removed will be disposed of appropriately.

Microstigium is also located in areas on site. Microstigium will be chemically treated by hand with an appropriate herbicide.

8. Performance Criteria

In order to determine if the restoration site is performing as designed, performance criteria to monitor the development of the site are required. Monitoring provides quantitative data and documentation of changes occurring at the site over time. The criteria include monitoring vegetation development, changes in groundwater elevations and soil profile analysis. All post-construction monitoring data will be compared to preconstruction data and all previous years' data. This comparison will show whether the site is progressing towards the desired outcome. Table 3 provides a detailed description of assessment criteria.

Hydrologic data available from federal and state agencies includes daily precipitation data collected at various sites surrounding the project vicinity. The monitoring location closest to the River Bend site is at the Danville, Virginia, airport that is approximately 10 miles northwest of the site. However, since groundwater data were unavailable, and in order to monitor the existing hydrologic regime of the site, groundwater gauges were installed as previously noted.

Growing season data are not currently available for Caswell County. Based on the data from the soil surveys of Rockingham and Person counties, the average growing season for the River Bend site is expected to be 223 days, beginning March 26 and ending November 4. Hydrologic success for 5 percent of the growing season requires at least 12 consecutive days of inundation or saturation to the soil surface.

8.1 Wetlands

Data from all monitoring gauges will be recorded on a daily basis and periodically downloaded during the entire growing season. The groundwater data will be compared with monthly precipitation data in order to estimate the return cycle for water inputs.

Gauges will be installed at representative wetland restoration locations. Gauges from on site that are obviously located in upland areas will be removed and reinstalled in the wetland restoration areas.

Three transects of groundwater gauges have been installed at the site. Gauges are located in the Piedmont/Mountain Bottomland Forest preservation areas and upland communities. The data collected from the restoration area gauges will be used to determine the hydrologic success of the restoration. The reference areas are located adjacent to the restoration areas. Therefore, the groundwater levels within the restoration areas should be very similar to those in the reference areas. If groundwater levels within the restored areas do not meet the criteria of within 12 inches of surface for 5 percent of the growing season, then the duration will be compared to those in the

adjacent reference areas. If there is a significant difference in the duration of saturation within 12 inches of the surface, between the reference and the restored wetlands, remedial actions will be discussed with NCEEP monitoring specialist (Greg Melia) prior to implementation.

During Years 3 and 5, soil samples will be taken in the vicinity of the vegetation monitoring plots to determine if the soils are exhibiting hydric soil conditions.

8.2 Vegetation

The success of vegetation is based on the total number of surviving stems at a specific time period. The success criteria established by the USACE is 320 surviving stems after 3 years, 288 stems after 4 years and ultimately 260 stems after 5 years. Successful vegetation establishment for this project will be based on 288 stems after 5 years. The intermediate criteria will be used as guidance to warn NCEEP that the vegetation maybe trending towards non-compliance.

Invasive vegetation will be visually monitored during the monitoring period. If the establishment of invasive vegetation appears to threaten the success of the restoration site, corrective actions will be taken. The necessity of corrective actions will be discussed with NCEEP monitoring specialist (Greg Melia) prior to implementation.

8.3 Beaver Management

Beaver activity is not expected at the site. Currently the only evidence of beaver activity is located in the mature forests adjacent to the Dan River. Beaver are not expected to move into the restoration area. If beaver activity appears to be affecting the performance of the restoration, corrective actions will be taken. Corrective actions would more than likely consist of relocating the beaver. Corrective actions will be discussed with NCEEP monitoring specialist (Greg Melia) prior to implementation. NCEEP will have the United States Department of Agriculture (USDA) (APHIS) remove the beaver if necessary.

8.4 Schedule / Reporting

Monitoring results will be documented on an annual basis as evidence that the mitigation goals are being achieved. A mitigation monitoring report following NCEEP format will be completed for each year's monitoring and submitted. The report will discuss the conditions of the site relative to the standards previously discussed for mitigation success.

Vegetation monitoring will follow protocol outlined in the NCEEP-CVS guidelines. Groundwater monitoring gauges will be downloaded periodically during the Caswell County growing season.

9. Preliminary Monitoring

Site monitoring and reporting will follow the guidelines established by NCEEP in the Mitigation Plan Document Format, Data Requirements, and Content Guidance , Version 2.0, 03/27/2008. Vegetation will be monitoring following NCEEP-CVS methodology and be conducted at the appropriate time of the year. Assessment criteria and monitoring parameters identified in Table 2 will be monitored.

10. Site Protection and Adaptive Management Strategy

The site is currently owned fee simple by the NCDOT. Upon completion of site construction the NCEEP will monitor the project in keeping with the monitoring plan. Post-construction monitoring activities will be conducted to evaluate site performance, to identify maintenance and/or repair concerns, and to maintain the integrity of the project boundaries. If during the post-construction monitoring period it is determined project compliance is jeopardized, the NCEEP shall take the necessary action to resolve the project concerns and bring the project back into compliance. At the conclusion of the post-construction monitoring period, the project will be presented to the regulatory authority for project acceptance and close-out. Upon close-out, the project will be transferred to the NCDENR Division of Natural Resource Planning and Conservation Stewardship Program for long-term management and stewardship. The NCWRC was also contacted regarding management of the site after monitoring is completed. NCWRC was willing to accept ownership of the site.

11. References

American Society for Testing and Materials (ASTM). 2000. Practice E 1528-00 Standard Practice for Environmental Site Assessments: Transaction Screen Process.

Cowardin, Lewis M., Virginia Carter, Francis Golet, and Edward LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. United States Fish and Wildlife Service, Washington, DC.

Daniels, R.B., S.W. Buol, J.H. Kleiss, and C.A. Ditzler. 1999. Soil Systems in North Carolina. Technical Bulletin 314. North Carolina State University, Soil Science Department, Raleigh, NC.

Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1. United States Army Engineer Waterways Experiment Station, Vicksburg, MS.

Federal Emergency Management Agency (FEMA). 1992. Community-Panel Numbers 370133 0025-0830, October 16, 1992. Flood Insurance Rate Map, Map Index, Hyde County, North Carolina (Unincorporated Areas).

Freeze, R.A., and J.A. Cherry. 1979. Groundwater. Prentice-Hall, Inc., New York, NY.

Gregory, James D. 2001. Hydric Soils and Growing Season: Wetland Delineation Data for North Carolina. North Carolina State University, Department of Forestry, Raleigh, NC.

Hearn, W. Edward, and Frank P. Drane. 1910. Soil Survey of Caswell County, North Carolina. United States Department of Agriculture, Bureau of Soils.

Kleiss, H.J. 2001. Soils Classification class notes. North Carolina State Univeristy, Department of Soil Science, Raleigh, NC.

Louis Berger Group, Inc. 2002. Archaeological Survey and Evaluation of the River Bend, Tract 1 Wetland Mitigation Site. Consultant's report prepared for the Project Development and Environmental Analysis Branch, North Carolina Department of Transportation.

McDonald, M.G., and A.W. Harbaugh. 1988. A Modular Three-Dimensional Finite-Difference Ground-Water Flow Model. Techniques of Water-Resources Investigations, Book 6, Chapter A1. United States Geological Survey, Reston, VA.

Mitsch, William J., and James G. Gosselink. 2000. Wetlands, Third Edition. John Wiley & Sons, Inc., New York, NY.

Nicholson, John C. 1994. Soil Survey of Pittsylvania County and the City of Danville, Virginia. United States Department of Agriculture, Soil Conservation Service in cooperation with Virginia Polytechnic Institute and State University.

North Carolina Department of Environment and Natural Resources (NCDENR). 2010. Draft Integrated Report Category 5-303(d) List. Division of Water Quality (DWQ). http://h2o.enr.state.nc.us/tmdl/General_303d.htm

NCDENR 2006a. Final North Carolina Water Quality Assessment and Impaired Waters List (2006 Integrated 305(b) and 303(d) Report). 2007. Approved May 17.

NCDENR 2006b. Roanoke River Basinwide Water Quality Plan. September 2006.

NCDENR 2005a. Basinwide Assessment Report- Roanoke River Basin. DWQ. April.

NCDENR 2005b. Identification Methods for the Origins or Intermittent and Perennial Streams, Version 3.1. DWQ. February 28.

NCDENR. 2004. Roanoke River Basinwide Water Quality Management Plan. Prepared by the DWQ, Water Quality Section.

NCDENR. 2002. Division of Water Quality, Groundwater Section. World Wide Web. http://www.gw.ehnr.state.nc.us. Accessed on April 2, 2002.

North Carolina Ecosystem Enhancement Program (NCEEP). 2009. Roanoke River Basin Restoration Priorities, 2009 Draft. Country Line Creek: 03010104032010 (Upper), 03010104032030 (Lower) south of the River Bend project site is identified as a ??. September.

North Carolina Geological Survey (NCGS), 2002. Division of Land Resources. Raleigh, North Carolina. World Wide Web. http://www.geology.enr.state.nc.us. Accessed on April 2, 2002.

NCGS. 1985. Geologic Map of North Carolina. North Carolina Division of Land Resources (NCDLR), Raleigh, NC.

North Carolina Natural Heritage Program (NCNHP). 2006. Element Occurrence List for Caswell County, North Carolina. North Carolina Division of Parks and Recreation, Raleigh, NC.

North Carolina Wetland Restoration Program. 2001. Watershed Restoration Plan for the Roanoke River Basin. 2001. Online at http://www.nceep.net/services/restplans/roanoke%20plan%202001.pdf

Piedmont Land Conservancy. 2006. Dan River Watershed Protection Plan. December.

Richardson, J.L., and M.J. Vepraskas, Editors. 2001. Wetland Soils: Genesis, Hydrology, Landscapes, and Classification. Lewis Publishers, New York, NY.

Southeast Regional Climate Center (SERCC). 2002. Danville, Virginia, Monthly Total Precipitation, Weather Station No. 442245. Water Resources Division, South Carolina Department of Natural Resources, Columbia, SC. http://www.dnr.state.sc.us/climate/sercc/index.html. Accessed on February 4, 2002.

Schafale, M.P., and A.S. Weakley. 1990. Classification of the Natural Communities of North Carolina, A Third Approximation. North Carolina Natural Heritage Program, Division of Parks and Recreation, Department of Environment, Health and Natural Resources, Raleigh, NC.

United States Department of Agriculture (USDA). 1998. Keys to Soil Taxonomy, Eighth Edition. Natural Resource Conservation Service (NRCS), World Wide Web. http://www.statlab.iastate.edu/soils/keytax/KeystoSoilTaxonomy1998.pdf. Accessed on April 23, 2001.

United States Fish and Wildlife Service (USFWS). 2006. Caswell County Protected Species Inventory List. World Wide Web. http://nc-es.fws.gov/es/cntylist/caswell.html. Accessed on May 10, 2006.

United States Geological Survey (USGS). 2002. Groundwater Atlas of the United States: Delaware, Maryland, New Jersey, North Carolina, Pennsylvania, Virginia, West Virginia (HA 730-L, Regional Summary). World Wide Web. http://capp.water.usgs.gov/gwa/ch_l/L-text1.html. Accessed on April 4, 2002.

Tables

Table 1. Project Components and Structure River Bend Wetland Mitigation, Caswell County, SCO # 050653701							
Project Component or Reach ID	**Existing Feet**	**Restoration Level**	**Approach**	**Footage or Acreage***	**Stationing**	**Buffer Acres**	**Comments**
Riparian Wetland Riverine		P	P	17.42 AC			Pockets of wetlands located throughout the site. Area within Progress Energy easement excluded from total.
Riparian Wetland Riverine		R	R	1.86 Ac			Removing earthen spoil piles and re-grading area
Non-Riparian Wetlands		-	-	-			
Uplands		P	P	172.86 AC			Excludes area within easement.
Stream 1	4,500.1	P	P	4,500.1 LF		-	Entire length
Stream 2	530.4	P	P	530.4 LF			Entire length
Stream 3	2020.1	P	P	1,651.7 LF			Length within Progress Energy easement excluded from total.
Stream 4	175.5	P	P	112.8 LF			Length within Progress Energy easement excluded from total.

*1.28 acre of wetland and 433.0 linear feet of stream are located within the Progress Energy easement. Access road is approximately 0.4 acre.

Component Summations							
Restoration Level	Stream (lf)	Riparian Wetland (Ac)		Non-Riparian Wetland (Ac)	Upland (Ac)	Buffer (Ac)	BMP
		Riverine	Non-Riverine				
Restoration	-	1.86	-	-	-	-	-
Enhancement	-	-	-	-	-	-	-
Enhancement I	-	-	-	-	-	-	-
Enhancement II	-	-	-	-	-	-	-
Creation	-	-	-	-	-	-	-
Preservation	6,795.0	17.42	-	-	172.86	-	-
HQ Preservation	-	-	-	-	-	-	-
Total	6,795.0	19.28	-	-	172.86	-	-

Table 2. Project Attributes Five Mile Branch Stream Restoration, Iredell County, SCO # 050653701	
Project County	Caswell
Physiographic Region	Piedmont
Ecoregion	Northern Inner Piedmont
Project River basin	Roanoke
USGS HUC for Project (14 digit)	03010104
NCDWQ Sub-basin for Project	03-02-04
Identify Planning Area (LWP, RBRP, other)	Roanoke River Basin Restoration Priorities September 2009 NCEEP Draft. Actual site not included in RBRP.
WRC Classification (Warm, Cool, Cold)	Warm
% of project easement fenced or demarcated	0% Site is owned by the State of North Carolina
Beaver activity observed during design phase?	Yes. In Dan River adjacent to the site.
Restoration Components Attributes	
Drainage Area	424 AC
Stream Order	1st/ intermittent
Preservation Length (ft)	7,068
Perennial or Intermittent	I
Watershed Type (Rural, Urban(izing), etc.)	Rural
Watershed LULC Distribution Residential Agricultural Row Crop Agricultural Livestock Forested	 10% 0% 15% 75%
Watershed Impervious cover %	0%-10%
NCDWQ AU/Index Number	22-(39)b
NCDWQ Classification	C
303d listed?	Yes
Upstream of 303d listed Segment?	Yes
Reason for 303d listing or stressor	Turbidity and Fecal Coliform
Total acreage of easement	0.0 site is owned by the State of North Carolina
Total vegetated acreage within the easement	193.0 with the exception of a small earthen access road.
Total planted acreage as part of the restoration	1.86
Rosgen classification of pre-existing	NA
Rosgen classification of As-built	NA
Valley type	VIII
Valley slope %	NA

Valley side slope range %	0-10			
Valley toe slope range %	0-10			
Trout waters designation	None			
Species of concern, endangered, etc (Y/N)	N			
Dominant soil series and characteristics	Comus fine sandy loan	Dan River loam	Codorus-Hatboro complex	Udorthents

Table 3. Functional Needs, Goals and Objectives River Bend Wetland Restoration, Caswell County, SCO # 050653701						
		Effects	**Responses**	**Remedies**	**Assessment Criteria***	**Monitored Parameters****
Stressors	**Removal of Riparian Vegetation**	• Loss of riparian habitat • Loss of organic matter inputs to Dan River • Loss of floodplain roughness/filtration of runoff	• Restore riparian habitat • Improve bank stability • Attenuate site impacts of storm flows	• Replant d floodplain with native vegetation	1, 2, 3	1, 2, 3, 6
	Agricultural Practices	• Increased nutrient input to streams • Compaction of floodplain soils	• Reduce nutrient inputs • Improve physical properties of soil in the near term	• Eliminate agricultural practices • Establish conservation easement on property in perpetuity • Rip floodplain soils prior to planting	None proposed	None proposed

*Assessment Criteria: 1 – woody stem density, 2 – diversity of woody stems, 3 – presences of invasive species, 4 – wetland hydrology

**Monitored Parameters: 1 – Visual assessment/inventory of the riparian zone, 2 – vegetation plots, stem counts, and vegetation assessments, 3 – stream gauge for stream hydrology, 4 – groundwater wells for wetland hydrology, 5 – Photographs, 6 – Soil Profiles

Assessment Criteria Defined

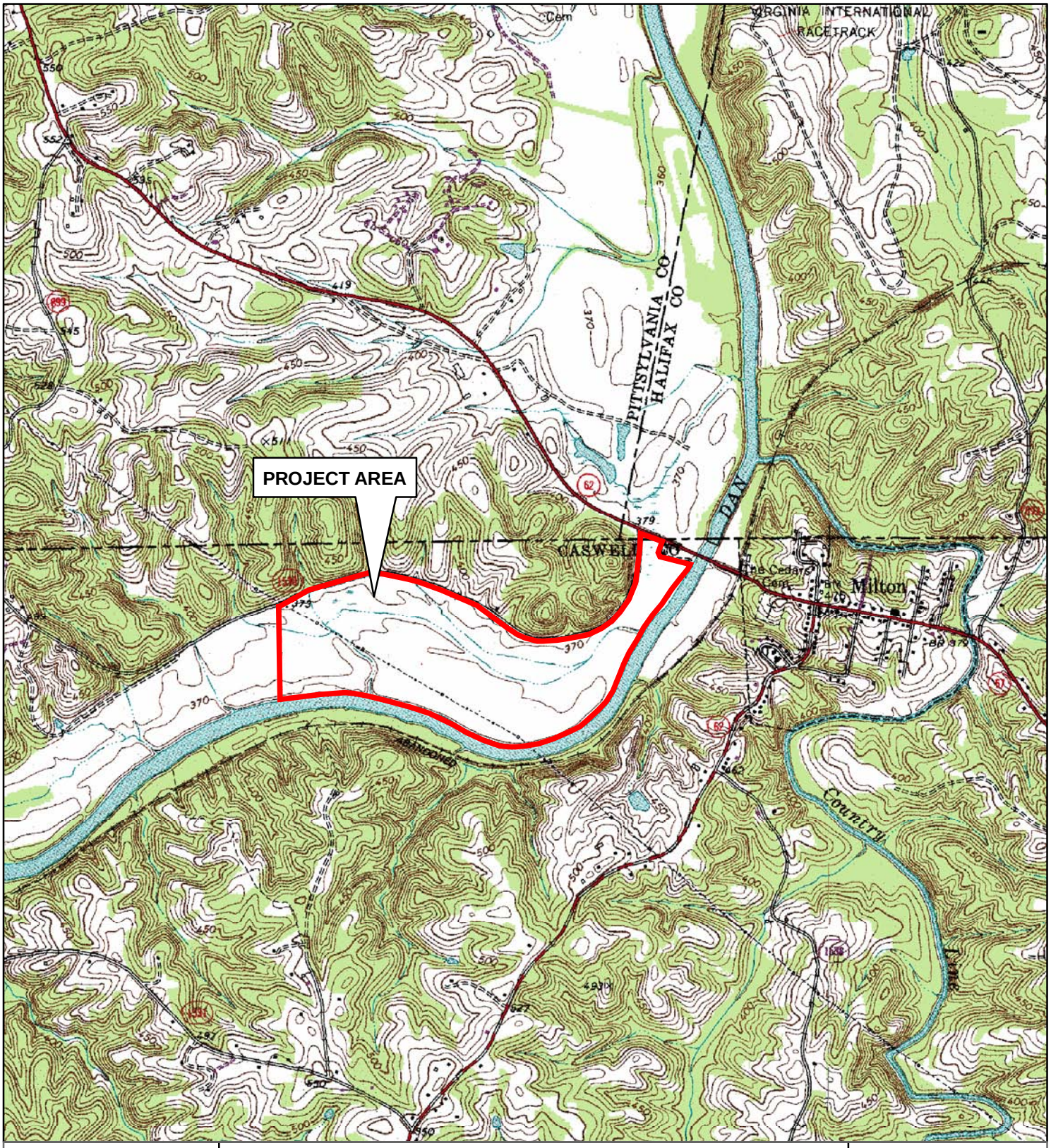
1 – Woody stem density – Regulatory guidance indicates a stem density of 260 stems/acre at year 5.

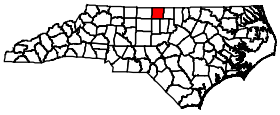
2 – Diversity of woody stems – The majority of the species identified within the planting plan should be present on site and represent a mixture of early and late successional species.

3 – Presence of invasive species – Only trace amounts of high threat invasive species such as kudzu, knotweed, and other climbing species that represent a physical threat to the buffer as a whole should be present at any given time.

4 – Wetland hydrology – Hydrology data should indicate saturation within 12 inches of the soil surface for the hydro-period dictated by the project reference or 5% of the growing season, whichever is less.

Figures





0 1,000 2,000 4,000 Feet

0 0.5 1 Mile

SCALE: 1:24,000

N W E S

Prepared For:

Ecosystem Enhancement PROGRAM

VICINITY MAP

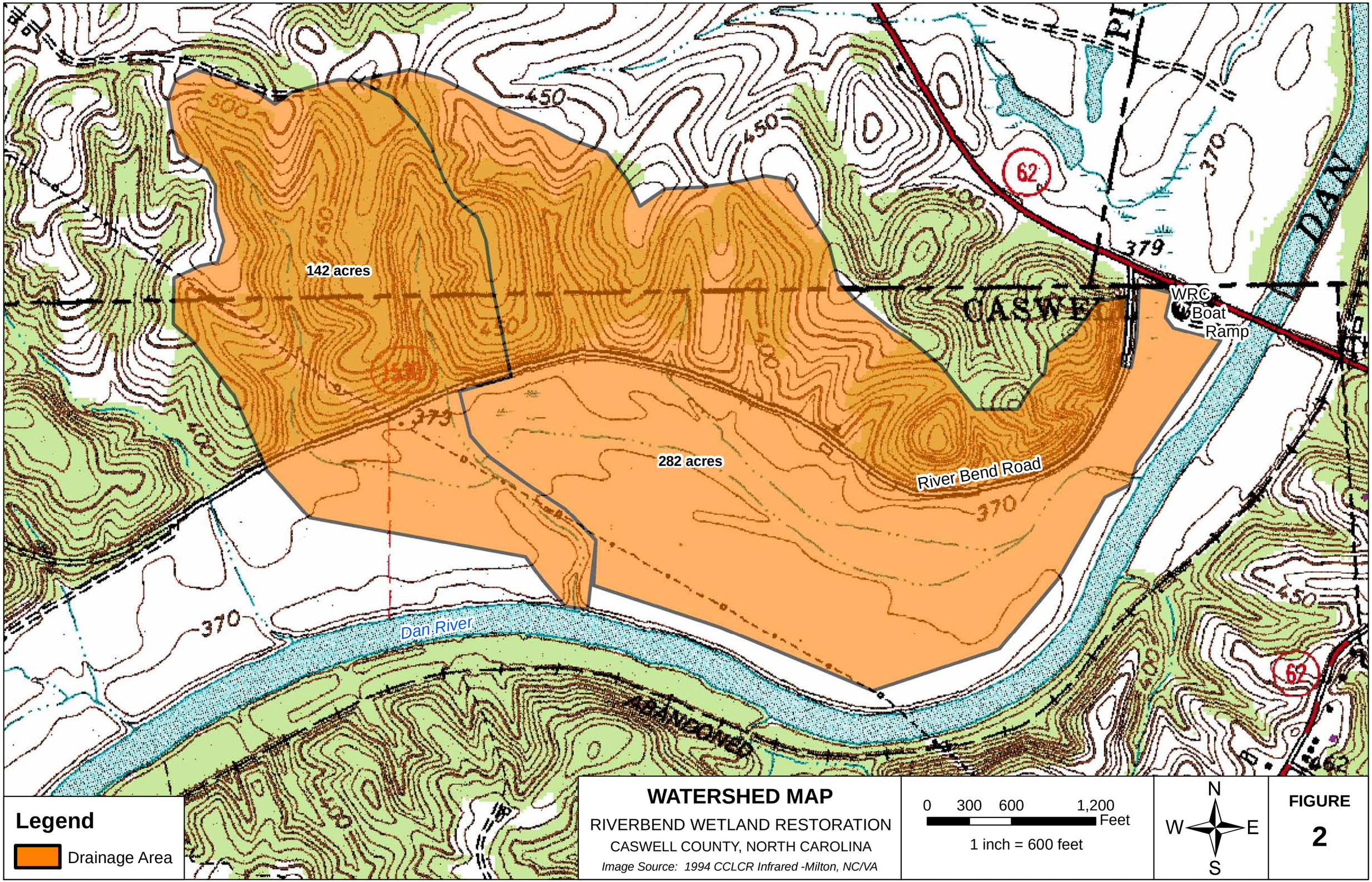
RIVER BEND WETLAND RESTORATION

CASWELL COUNTY, NORTH CAROLINA

Source: USGS 7.5 Minute Topographic Map: MILTON, NC

FIGURE

1



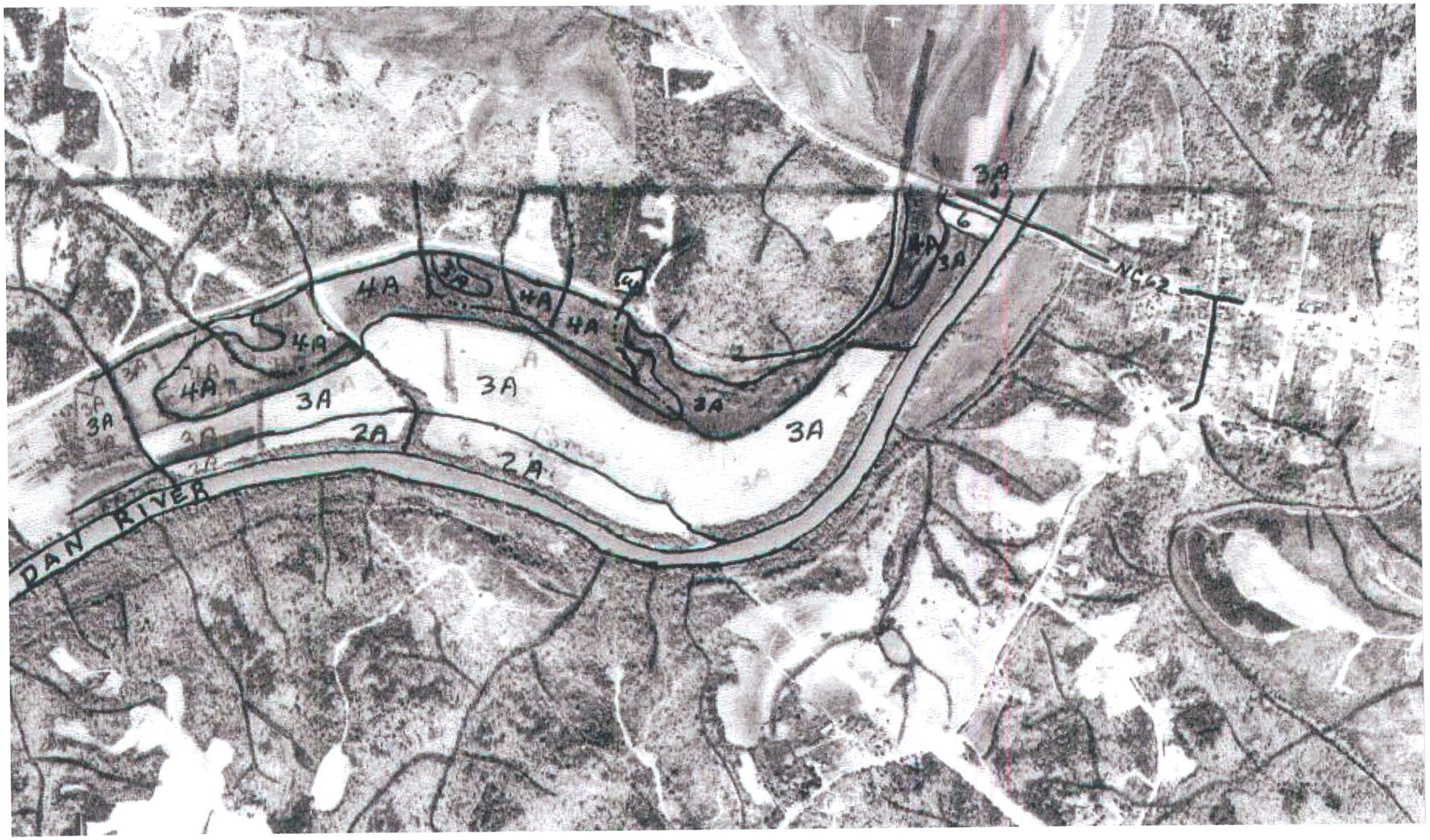
WATERSHED MAP

RIVERBEND WETLAND RESTORATION

CASWELL COUNTY, NORTH CAROLINA

Image Source: 1994 CCLCR Infrared -Milton, NC/VA

FIGURE 2



Key to Soil Map Symbols

2A - Comus fine sandy loam
3A - Dan River loam
4A - Codorus-Hatboro complex
6 - Udorthents, loamy

NRCS SOIL MAPPING

RIVERBEND WETLAND RESTORATION

CASWELL COUNTY, NORTH CAROLINA

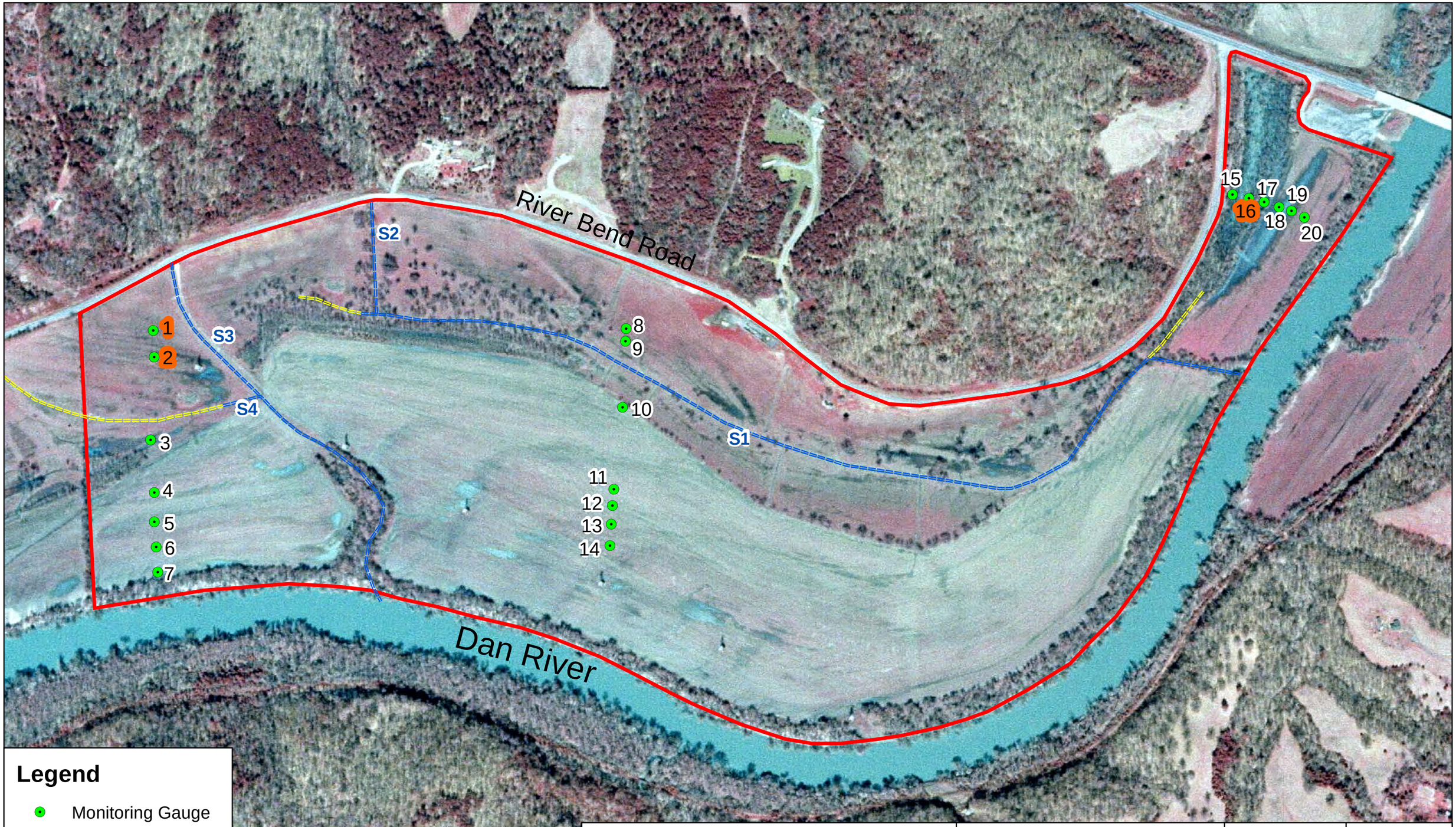
Source: NRCS Provisional Mapping

NOT TO SCALE

N
W E
S

FIGURE

3



Legend

- Monitoring Gauge
- Intermittent Stream
- Ditch
- Project Area

Reference Gauges 1, 2, and 16

HYDROLOGICAL FEATURES MAP with GAUGE LOCATIONS

RIVERBEND WETLAND RESTORATION

CASWELL COUNTY, NORTH CAROLINA

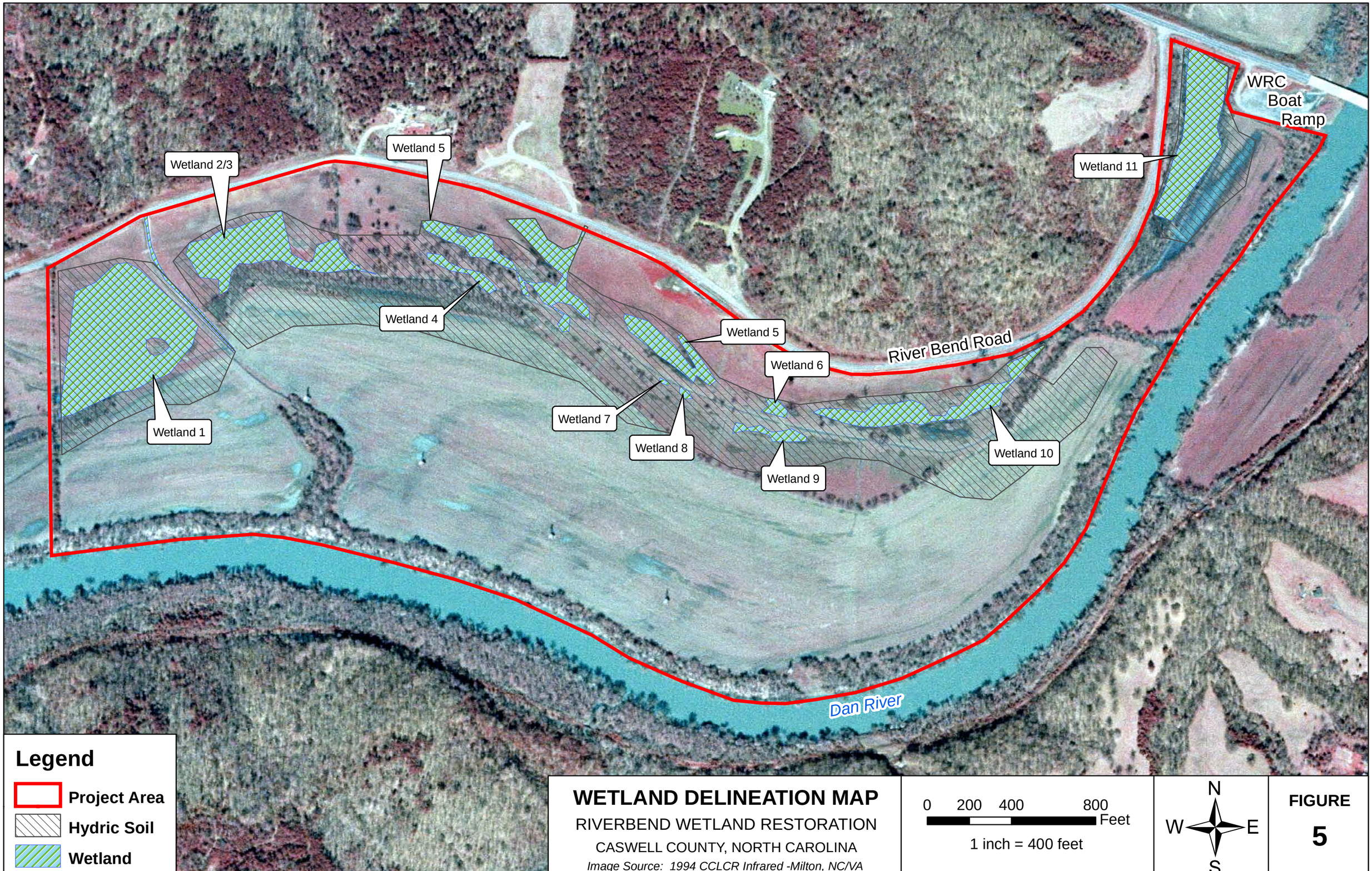
Image Source: 1994 CCLCR Infrared -Milton, NC/VA

0 75 150 300 Feet

1 inch = 125 feet

N W E S

FIGURE 4



WETLAND DELINEATION MAP

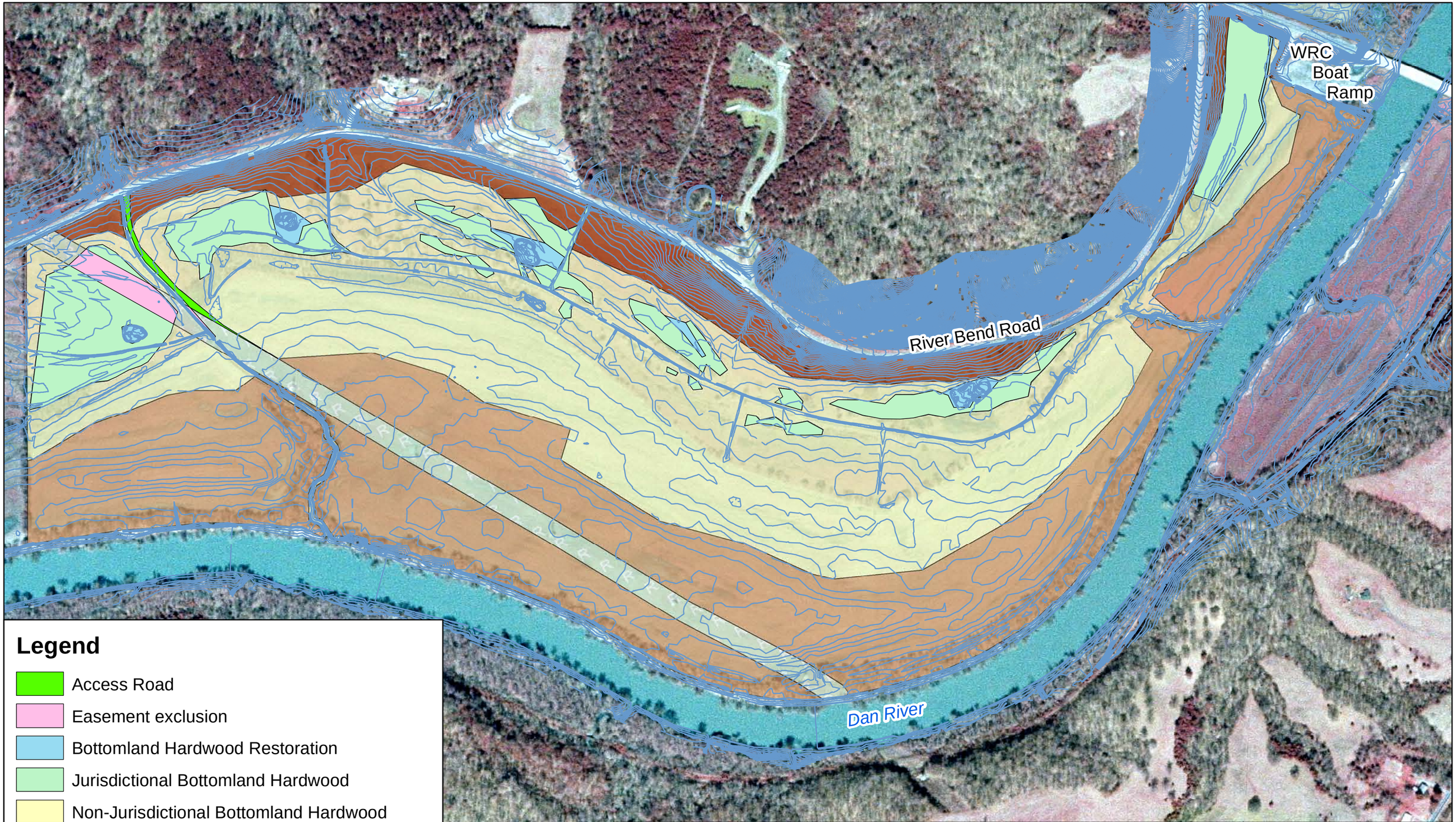
RIVERBEND WETLAND RESTORATION

CASWELL COUNTY, NORTH CAROLINA

Image Source: 1994 CCLCR Infrared -Milton, NC/VA

FIGURE

5



Legend

- Access Road
- Easement exclusion
- Bottomland Hardwood Restoration
- Jurisdictional Bottomland Hardwood
- Non-Jurisdictional Bottomland Hardwood
- Dry-Mesic Oak/Hickory Forest Preservation
- Piedmont/Mountain Levee Forest Preservation
- CP&L Powerline ROW

WETLAND MITIGATION PLAN

RIVERBEND WETLAND RESTORATION
CASWELL COUNTY, NORTH CAROLINA
Image Source: 1994 CCLCR Infrared -Milton, NC/VA

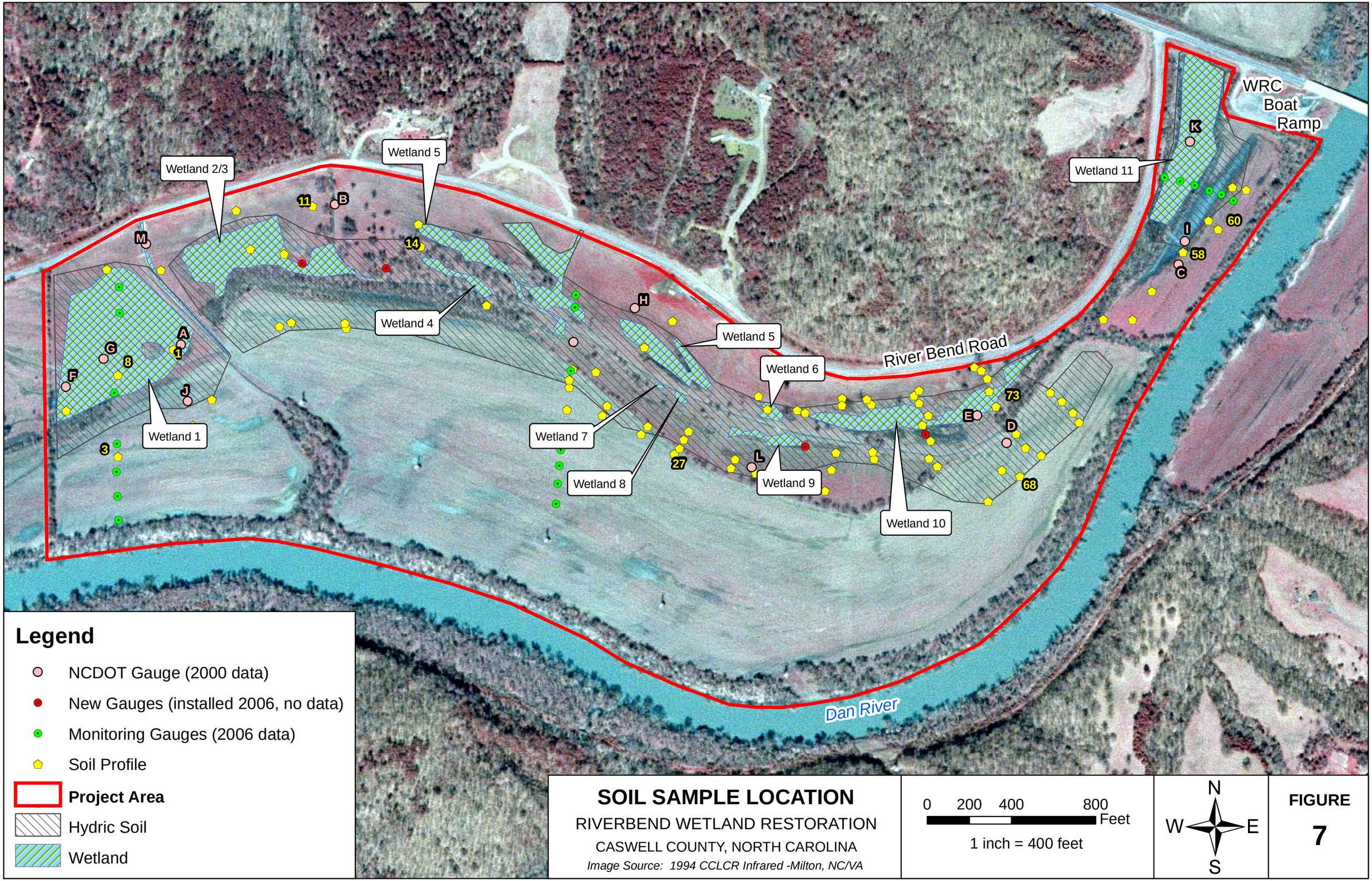
0 200 400 800 Feet

1 inch = 400 feet

N
W E
S

FIGURE

6



SOIL SAMPLE LOCATION

RIVERBEND WETLAND RESTORATION

CASWELL COUNTY, NORTH CAROLINA

Image Source: 1994 CCLCR Infrared -Milton, NC/VA

FIGURE 7

Appendix A

Photographs

Progress Energy easement. Dan River is located to the right. 3/21/2006

Stream 3 confluence with Dan River 3/21/2006

Central portion of the site. 3/21/2006

Mature Piedmont/Mountain Bottomland Forest near western edge of site. 3/21/2006

Stream 1 near central portion of site. 3/21/2006

Stream 1 near central portion of site. 3/21/2006

Early successional Piedmont/Mountain Bottomland Forest wetland at western edge of site. 3/21/2006

Stream 1 confluence with Dan River. 3/21/2006

Mature Piedmont/Mountain Bottomland Forest at eastern end of site. 3/21/2006

Ditch within Mature Piedmont/Mountain Bottomland Forest at eastern end of site. 3/21/2006

Mature Piedmont/Mountain Bottomland Forest at eastern end of site. 3/21/2006

Mature Piedmont/Mountain Bottomland Forest near center of site. 3/21/2006

Central portion of site during flood event. 1/3/2007

Central portion of site during flood event. 1/3/2007

Eastern portion of site during flood event. 1/3/2007

Eastern portion of site during flood event. 1/3/2007

Western portion of site during flood event. 1/3/2007

Appendix B

USACE Routine Wetland
Determination Data Forms

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NGBEP
Investigator(s): BNF RSC
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 7/1/08
County: Caswell
State: NC
Community ID: Upland
Transect ID: WB 11
Plot ID: WB 11-13

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer negundo	S	FACW	9.		
2. Ulmus fulva	S	FAC	10.		
3. Platanus occidentalis	S	FACW-	11.		
4. Rubus argutus	H	FACU+	12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 3/4 75%

Remarks:
Young trees <10 yrs

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >12 (in.)

Depth to Saturated Soil: >12 (in.)

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:
No hydrologic indicators present.

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro Complex Drainage Class: mod, well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts or Endoaquepts Confirm Mapped Type? Yes (No)

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6		2.5YR 4/3	—	—	loam
6-12		2.5YR 4/4	—	—	clay loam

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors

___ Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:
No hydric indicators present

Hydrophytic Vegetation Present? (Yes) No
Wetland Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

Is this Sampling Point Within a Wetland? Yes (No)

Remarks:
Wide berm adjacent to ditch

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCDOT
Investigator(s): RSI BNF
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 7/2/08
County: Caswell
State: NC
Community ID: Wetland
Transect ID: WB11
Plot ID: WB11-1B

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Salix nigra	S C	OBL	9. Juncus sp	H	FACW-OBL
2. Boehmeria cylindrica	H	FACW+	10. Toxicodendron rad	V	FAC
3. Acer negundo	S C	FACW	11. Carex sp	H	FACW-OBL
4. Fraxinus penn	S C	FACW	12. Platanus occident	C	FACW-
5. Polygonum sp	H	FACW-OBL	13.		
6. Ulmus rubra	S	FAC	14.		
7. Cephalanthus occidentalis	S	OBL	15.		
8. Saururus cernuus	H	OBL	16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 12/12 = 100%

Remarks:

Even mixture of young and mature tree species

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >12 (in.)

Depth to Saturated Soil: >12 (in.)

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
X Oxidized Root Channels in Upper 12 Inches
X Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Standing water observed in area in April '07.

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro Complex Drainage Class: mod. well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts, Endoaquepts Confirm Mapped Type? Yes (No)

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-4		2.5YR4/3	—	—	Silty loam
4-12		10YR4/4	10YR 5/3	Common, Med, Faint	Clay loam

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors
___ Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:

OR present.
Depletions with chroma 3 or less present @ 4"

Hydrophytic Vegetation Present? (Yes) No
Wetland Hydrology Present? (Yes) No
Hydric Soils Present? (Yes) No
Is this Sampling Point Within a Wetland? (Yes) No

Remarks:

River Bend Rd + Route 62 causing hydrologic obstruction.

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCEBP
Investigator(s): BNF, RSC
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 7/1/08
County: Caswell
State: NC
Community ID: Upland
Transect ID: WBR
Plot ID: WBR-6A

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pennsy	S	FACW	9. Ulmus rubra	S	FAC
2. Acer rubrum	S	FAC	10.		
3. Rubus argutus	H	FACU+	11.		
4. Solidago sp	H	FAC-FACU	12.		
5. Lonicera japonica	V	FAC-	13.		
6. Cornus sp	H	unknown	14.		
7. Verbisina sp	H	FAC-FACU	15.		
8. Liquidambar styr	S	FAC+	16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 5/9 55%

Remarks: Robus more dense in opkends. Shrubs dominate. No herbaceous layer.

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >13 (in.)

Depth to Saturated Soil: >13 (in.)

Remarks: No hydrologic indicators present

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro Complex
Drainage Class: mod. well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts or Endoaquepts
Confirm Mapped Type? Yes (No)

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-13		10YR 4/4	—	—	Sandy

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors
___ Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks: No hydric indicators present

Hydrophytic Vegetation Present? (Yes) No
Wetland Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)
Is this Sampling Point Within a Wetland? Yes (No)

Remarks: ~~Wetland~~ Hillside between wetland and River Bend Rd.

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCEEP
Investigator(s): BNF RSG
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 7/2/08
County: Caswell
State: NC
Community ID: Wetland
Transect ID: WB10
Plot ID: WB10-SA

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus Penn	S	FACW	9. Abelmoschus		
2. Acer negundo	S	FACW	10. escculentus	H	NI
3. Juncus effusus	H	FACW+	11. Liquid. styra	S	FAC+
4. Carex sp	H	FACW	12.		
5. Polygonum Sag.	H	OBL	13.		
6. Polygonum spp	H	FACW-OBL	14.		
7. Saururus cernuus	H	OBL	15.		
8. Ulmus rubra	S	FAC	16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 9/10 90%

Remarks:
Herbaceous veg dominate center of wetland. Woody veg on edges.

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >12 (in.)

Depth to Saturated Soil: >12 (in.)

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
X Drift Lines
___ Sediment Deposits
X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
X Oxidized Root Channels in Upper 12 Inches
X Water-Stained Leaves
___ Local Soil Survey Data
X FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:
Evidence of standing and flowing water.

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro Complex Drainage Class: mod. well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts or Endoaquepts Confirm Mapped Type? Yes (No)

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-3		10YR 4/4	10YR 5/3	Many Med Faint	clay loam
3-12		10YR 4/4	2.5YR 5/3	Many Med Dist	clay loam

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors
X Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:
Many ORs, Mn concretions ≈ 6". Soil moist, not saturated

Hydrophytic Vegetation Present? (Yes) No
Wetland Hydrology Present? (Yes) No
Hydric Soils Present? (Yes) No
Is this Sampling Point Within a Wetland? (Yes) No

Remarks:
Located near ground water well. Well provides evidence of wetland hydrology.

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCBP
Investigator(s): RSK BNR
Do Normal Circumstances exist on the site? ~~Yes~~ No
Is the site significantly disturbed (Atypical Situation)? Yes ~~No~~
Is this area a potential Problem Area? Yes ~~No~~

Date: 2/1/08
County: Caswell
State: NC
Community ID: Cokend
Transect ID: WB5
Plot ID: WB5

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pennsylvanica	S	FACW	9.		
2. Toxicodendron radicans	V	FAC	10.		
3. Vaccinium sp.	H	FAC-FACU	11.		
4. Rubus argutus	H	FACU+	12.		
5. Lonicera japonica	V	FAC-	13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 2/5 40%

Remarks:
Young stand of woody vegetation < 10yrs.

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)
Depth to Free Water in Pit: >14 (in.)
Depth to Saturated Soil: >14 (in.)

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:
No hydrologic indicators present.

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro Complex Drainage Class: mod. well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts or Endoaquepts Confirm Mapped Type? Yes ~~No~~

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-14		7.5YR4/4			

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors

___ Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:
No hydric indicators present

Hydrophytic Vegetation Present? Yes ~~No~~
Wetland Hydrology Present? Yes ~~No~~
Hydric Soils Present? Yes ~~No~~

Is this Sampling Point Within a Wetland? Yes ~~No~~

Remarks:
South and upslope slightly from wetland

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCBBP
Investigator(s): RSC BNF
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 5/1/08
County: Caswell
State: NC
Community ID: Wetland
Transect ID: WB9
Plot ID: WB9

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pennsyl	S/C	FACW	9.		
2. Acer negundo	S	FACW	10.		
3. Ulmus alata	S	FAC	11.		
4. Juncus effusus	H	FACW+	12.		
5. Polygonum sp.	H	FACW-OBL	13.		
6. Polygonum sagittatum	H	OBL	14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 6/6 100%

Remarks:
Mix of mature + young trees

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: >0 (in.)

Depth to Free Water in Pit: >12 (in.)

Depth to Saturated Soil: >12 (in.)

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
X Water Marks
___ Drift Lines
___ Sediment Deposits
X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
X Oxidized Root Channels in Upper 12 Inches
X Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:
Evidence of standing water and drift lines present

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro Complex Drainage Class: mod. well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts or Endoaquepts Confirm Mapped Type? Yes (No)

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-12		7.5YR 4/3	7.5YR 5/3	Many Med Faint	Clay loam

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors

X Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:
ORs + Mn concretions present

Hydrophytic Vegetation Present? (Yes) No
Wetland Hydrology Present? (Yes) No
Hydric Soils Present? (Yes) No

Is this Sampling Point Within a Wetland? (Yes) No

Remarks:
Wetland south of ditch and WB6

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCEEP
Investigator(s): BNF RSL
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 7/2/08
County: Caswell
State: NC
Community ID: Wetland
Transect ID: WRB
Plot ID: WRB-3

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus penn	S	FACW	9.		
2. Liquidambar styr	S	FAC+	10.		
3. Acer rubrum	S	FAC	11.		
4. Acer negundo	S	FACW	12.		
5. Rubus argutus	H	FACU+	13.		
6. Toxicodendron rad	V	FAC	14.		
7. Lonicera jap	V	FAC-	15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 5/7 71%

Remarks:
Young stand of woody vegetation <10 yrs

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >12 (in.)

Depth to Saturated Soil: >12 (in.)

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:
No hydrologic indicators present

SOILS

Map Unit Name (Series & Phase): Cadorus-Hatboro Complex Drainage Class: mod. well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts Confirm Mapped Type? Yes (No)

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-12		7.5YR 4/4	—	—	Loam

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors
___ Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:
No hydric indicators present

Hydrophytic Vegetation Present? (Yes) No
Wetland Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

Is this Sampling Point Within a Wetland? Yes (No)

Remarks:
Rubus argutus dominates area

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCEEP
Investigator(s): BNF RSL
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 7/2/08
County: Caswell
State: NC
Community ID: Wetland
Transect ID: WB8
Plot ID: WB8-3

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Polygonum spp	H	FACW-OBL	9.		
2. Cephalanthus occid	S	OBL	10.		
3. Juncus effusus	H	FACW+	11.		
4. Carex spp.	H	FACW	12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 4/4 100%

Remarks:
Polygonum dominates wetland.
Juncus, carex and Cephalanthus on edge.

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >12 (in.)

Depth to Saturated Soil: >12 (in.)

Remarks:
No recent rain

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
X Oxidized Root Channels in Upper 12 Inches
X Water-Stained Leaves
___ Local Soil Survey Data
X FAC-Neutral Test
___ Other (Explain in Remarks)

SOILS

Map Unit Name (Series & Phase): Codorus - Hatboro Complex Drainage Class: mod. well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts or Endoaquepts Confirm Mapped Type? Yes (No)

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-12		10YR 5/2			clay loam

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
X Gleyed or Low-Chroma Colors

X Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:
OR and Mn concretions present.

Hydrophytic Vegetation Present? (Yes) No
Wetland Hydrology Present? (Yes) No
Hydric Soils Present? (Yes) No

Is this Sampling Point Within a Wetland? (Yes) No

Remarks:
Small pocket wetland adjacent to ditch

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCEEP
Investigator(s): RSL BNF
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 7/1/08
County: Caswell
State: NC
Community ID: Upland
Transect ID: WB7
Plot ID: WB7

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus penn	S	FACW	9.		
2. Toxicodendron rad	V	FAC	10.		
3. Lonicera japonica	V	FAC-	11.		
4. Rubus argutus	H	FACU+	12.		
5. Agrimonia parviflora	H	FAC	13.		
6. Galium sp	H	FAC-FACU	14.		
7. Andropogon sp	H	FAC-FACU	15.		
8. Verbesina sp	H	FAC-FACU	16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 3/8 = 37%

Remarks:
Young woody vegetation < 10 yrs

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >14 (in.)

Depth to Saturated Soil: >14 (in.)

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:
No hydrologic indicators present

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro Complex
Drainage Class: mod. well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts
Confirm Mapped Type? Yes (No)

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-14		7.5YR 4/4	—	—	Loam

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors
___ Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:
No hydric indicators present

Hydrophytic Vegetation Present? Yes (No)
Wetland Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

Is this Sampling Point Within a Wetland? Yes (No)

Remarks:
Slope south of wetland

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCEEP
Investigator(s): RSC BNF
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 7/1/08
County: Caswell
State: NC
Community ID: Wetland
Transect ID: WB3
Plot ID: WB3

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Salix nigra	S	OBL	9. Polygonum sag.	H	OBL
2. Cephalanthus occident	S	OBL	10. Polygonum sp.	H	FACW-OBL
3. Fraxinus penn.	S	FACW	11. Toxic radicans	V	FAC
4. Acer negundo	S	FACW	12. E. perfoliatum	H	FAC
5. Ulmus rubra	S	FACU+	13. Sambucus canadensis	H	OBL
6. Ulmus alata	S	FAC	14.		
7. Acer rubrum	S	FAC	15.		
8. Juncus effusus	H	FACW+	16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 93%

Remarks:
Young stand of woody vegetation < 10y

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >12 (in.)

Depth to Saturated Soil: >12 (in.)

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
X Oxidized Root Channels in Upper 12 Inches
X Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:
Evidence of standing water. Water stained leaves

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro Complex Drainage Class: mod. well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts or Endoaquepts Confirm Mapped Type? Yes (No)

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-12		7.5YR 4/3	7.5YR 5/3	Many Med Faint	Clay Loam

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors

X Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:
OR's present
Mn concretion @ 8"

Hydrophytic Vegetation Present? (Yes) No
Wetland Hydrology Present? (Yes) No
Hydric Soils Present? (Yes) No

Is this Sampling Point Within a Wetland? (Yes) No

Remarks:
Small depression south of drainage ditch

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCBEP
Investigator(s): RSL BNF
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 7/1/08
County: Caswell
State: NC
Community ID: cypkud
Transect ID: WB
Plot ID: WB6

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pann	S	FACW	9. Verbisina sp	H	FAC-FACU
2. Acer rubrum	S	FAC	10.		
3. Rubus sieboldii	H	FACU+	11.		
4. Ulmus rubra	S	FACU+	12.		
5. Solidago sp	H	FAC-FACU	13.		
6. Lonicera sp	V	FAC-	14.		
7. Gaudeus sp	H	unknown	15.		
8. Liquidambar styr	S	FACU+	16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). n/a 50%

Remarks:

Young woody vegetation < 10 yrs
Herbaceous layer sparse

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >12 (in.)

Depth to Saturated Soil: >12 (in.)

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

No hydrologic indicators present

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro Complex Drainage Class: mod. well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts or Endoaquepts Confirm Mapped Type? Yes (No)

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-13		10YR 4/4			Sandy

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors
___ Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:

No hydric indicators present

Hydrophytic Vegetation Present? (Yes) No
Wetland Hydrology Present? ~~(Yes)~~ (No)
Hydric Soils Present? ~~(Yes)~~ (No)

Is this Sampling Point Within a Wetland? Yes (No)

Remarks:

Slope between wetland and River Bend Road.

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCDOT
Investigator(s): RSC BNF
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 7/1/08
County: Caswell
State: NC
Community ID: Wetland
Transect ID: WB6
Plot ID: WB6

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Ulmus rubra	S	FACU+	9.		
2. Fraxinus pennsylv.	S	FACW	10.		
3. Eupatorium purpureum	H	FAC	11.		
4. Toxicodendron radicans	V	FAC	12.		
5. Carex sp	H	FAC	13.		
6. Juncus sp	H	FAC	14.		
7. Rubus argutus	H	FACU+	15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 5/5 = 71%

Remarks:

Young woody veg < 10 yrs

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >12 (in.)

Depth to Saturated Soil: >12 (in.)

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
X Drift Lines
___ Sediment Deposits
X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
X Oxidized Root Channels in Upper 12 Inches
X Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Evidence of standing + flowing water.

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro Complex Drainage Class: mod. well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts or Endoaquepts Confirm Mapped Type? Yes (No)

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-3		10YR 4/4	10YR 5/3	Many Med faint	clay loam
3-12		10YR 4/4	7.5YR 5/3	Many Med Dist	clay loam

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors

X Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:

Many OR's
Mn concretion @ 6" Soil moist not saturated.

Hydrophytic Vegetation Present? (Yes) No
Wetland Hydrology Present? (Yes) No
Hydric Soils Present? (Yes) No
Is this Sampling Point Within a Wetland? (Yes) No

Remarks:

Wetland between ditch + hillside slope.

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCBBP
Investigator(s): RNF RSC
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 7/1/08
County: Caswell
State: NC
Community ID: upland
Transect ID: WB5
Plot ID: WB5-UPL

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus Pann	S	FACW	9. Verbasina sp	H	FAC-FACU
2. Rubus argutus	H	FACU+	10.		
3. Lonicera japonica	V	FAC-	11.		
4. Agrimonia parv	H	FAC	12.		
5. Solidago sp	H	FAC-FACU	13.		
6. Ambrosia sp	H	FAC-FACU	14.		
7. Cornus sp	H	unknown	15.		
8. Toxicodendron rad.	V	FAC	16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 3/9 33%

Remarks:
Woody species similar to wetland.
Herbaceous layer very different.

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >14 (in.)

Depth to Saturated Soil: >14 (in.)

Remarks:
No hydrologic indicators present

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro Compl. Drainage Class: mod. well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts Endoaquepts Confirm Mapped Type? Yes (No)

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-14		7.5YR 4/4	—	—	Loam

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors

___ Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:
No hydric indicators present

Hydrophytic Vegetation Present? Yes (No)
Wetland Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

Is this Sampling Point Within a Wetland? Yes (No)

Remarks:
Upland characterized by an increasing dominance of Rubus argutus and lack of wetland herbs.
Solidago common throughout upland.

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCBEP
Investigator(s): RSL BNF
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 7/1/08
County: Caswell
State: NC
Community ID: Wetland
Transect ID: WB5
Plot ID: WB5-DA

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus penn	S	FACW	9. Saururus cernuus	H	OBL
2. Salix nigra	S	OBL	10. Onoclea sensibilis	H	FACW
3. Cephalanthus occid	S	OBL	11. Carex spp	H	FACW
4. Acer negundo	S	FACW	12. Typhaceae/Sedge	V	FAC
5. Acer rubrum	S	FAC	13. Polygonum spp	H	FACW-OBL
6. Ulmus alata	S	FACU+	14. Eupatorium purpureum	H	FAC
7. Ulmus rubra	S	FAC	15. Polygonum sagittatum	H	OBL
8. Juncus effusus	H	FACW+	16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 14/15 = 93%

Remarks:
Trees young (<10yrs) and sparse.
Herbaceous dense and diverse.

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >12 (in.)

Depth to Saturated Soil: >12 (in.)

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
X Water Marks
X Drift Lines
___ Sediment Deposits
X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
X Oxidized Root Channels in Upper 12 Inches
X Water-Stained Leaves
___ Local Soil Survey Data
X FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:
Evidence of standing and flowing water.

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro Complex Drainage Class: mod, well drained + poorly drained
Taxonomy (Subgroup) Confirm Mapped Type? Yes (No)

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-12		2.5YR 4/3	2.5YR 5/3	Many Med Faint	Clay loam
		10YR 4/2 in center of wetland			

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors

X Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:
Many OR's
Mn soft masses and concretions @ ≈ 4"

Hydrophytic Vegetation Present? (Yes) No
Wetland Hydrology Present? (Yes) No
Hydric Soils Present? (Yes) No
Is this Sampling Point Within a Wetland? (Yes) No

Remarks:
Wetland between ditch and slope @ River Bend Road.

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCBP
Investigator(s): RSL BNF
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 5/1/08
County: Caswell
State: NC
Community ID: Upland
Transect ID: WB4
Plot ID: WB4

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pennsyl	S	FACW	9. Verbesina sp	H	FAC-FACW
2. Rubus argutus	H	FACU+	10.		
3. Lonicera japonica	V	FAC-	11.		
4. Agrimonia parv	H	FAC	12.		
5. Solidago sp	H	FAC-FACU	13.		
6. Ambrosia sp	H	FAC-FACU	14.		
7. Cardiuus sp	H	unknown	15.		
8. Toxi radicans	V	FAC	16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 33% 3/11

Remarks:
Woody vegetation similar to wetland species.
Herb layer very different.

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >14 (in.)

Depth to Saturated Soil: >14 (in.)

Remarks:
No hydrologic indicators present

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro Complex Drainage Class: Mod. well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts Confirm Mapped Type? Yes (No)

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-14		2.5YR4/4	—	—	loam

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors

___ Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:
No hydric indicators present

Hydrophytic Vegetation Present? Yes (No)
Wetland Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)
Remarks:

Is this Sampling Point Within a Wetland? Yes (No)

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCEEP
Investigator(s): RSL BNF
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 7/1/08
County: Caswell
State: NC
Community ID: Wetland
Transect ID: WB4
Plot ID: WB4

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus penn	S	FACW	9. Sambucus canadensis	H	OBL
2. Salix nigra	S	OBL	10. Smilax sensitivis	H	FACW
3. Celt. occidentalis	S	OBL	11. Carex spp	H	FACW
4. Acer negundo	S	FACW	12. Lonicera japonica	V	FAC
5. Acer rubrum	S	FAC	13. Polygonum spp	H	FACW/OBL
6. Ulmus alata	S	FACU+	14. Polygonum sagittatum	H	OBL
7. Ulmus rubra	S	FAC	15. Eupatorium spp	H	FAC
8. Juncus effusus	H	FACW+	16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 93%

Remarks:

Few young trees in wetland.
Numerous herbaceous species

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >12 (in.)

Depth to Saturated Soil: >12 (in.)

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
X Water Marks
X Drift Lines
___ Sediment Deposits
X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
X Oxidized Root Channels in Upper 12 Inches
X Water-Stained Leaves
___ Local Soil Survey Data
X FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Numerous drift lines throughout wetland.
Several areas of water stained leaves.

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro Complex Drainage Class: mod. well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts Confirm Mapped Type? Yes (No)

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-12		7.5YR 4/3	7.5YR 5/3	Many Faint Med	clay loam

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
X Gleyed or Low-Chroma Colors

X Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:

Many ORs
Mn soft masses and concretions ≈ 4"

Hydrophytic Vegetation Present? (Yes) No
Wetland Hydrology Present? (Yes) No
Hydric Soils Present? (Yes) No

Is this Sampling Point Within a Wetland? (Yes) No

Remarks:

Wetland located along drainage ditch.

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCBEP
Investigator(s): RSL BNP
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 2/1/08
County: Caswell
State: NC
Community ID: Upland
Transect ID: WB3
Plot ID: WB3

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pennsyl.	S	FACW	9. Carduus sp	H	unknown
2. Rubus argutus	H	FACU+	10. Lonicera japonica	V	FAC
3. Lonicera japonica	V	FAC-	11. Verbascum sp	H	FAC-FACU
4. Ranunculus ficaria	H	FAC	12.		
5. Solidago sp	H	FAC-FACU	13.		
6. Ambrosia sp	H	FAC-FACU	14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 3/11 = 27%

Remarks:
Shrubs and small trees similar to wetland species.
Herb layer very different.

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >14 (in.)

Depth to Saturated Soil: >14 (in.)

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:
No hydrologic indicators present

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro Comple Drainage Class: mod. well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts or Endoaquepts Confirm Mapped Type? Yes (No)

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-14		2.5YR 4/4	—	—	loam

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors

___ Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:
No hydric indicators present.

Hydrophytic Vegetation Present? Yes (No)
Wetland Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

Is this Sampling Point Within a Wetland? Yes (No)

Remarks:
Upland characterized by increasing dominance of Rubus argutus and lack of wetland herbs. Solidago present.

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCBEP
Investigator(s): RSC BNR
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 2/1/08
County: Caswell
State: NC
Community ID: Wetland
Transect ID: WB3
Plot ID: WB3

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pennsylvan	S	FACW	9. Scirpus cyperinus	H	OBL
2. Salix nigra	S	OBL	10. Onoclea sensibilis	H	FACW
3. Lep. oxidentalis	S	OBL	11. Carex spp.	H	FACW
4. Acer negundo	S	FACW	12. Iris virginica	V	FAC
5. Acer rubrum	S	FAC	13. Polygonum spp.	H	FACW-OBL
6. Ulmus alata	S	FACU+	14. Polygonum sagittat	H	OBL
7. Ulmus rubra	S	FAC	15. Eupatorium purpureum	H	FAC
8. Juncus effusus	H	FACW+	16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 14/15 = 93%

Remarks:
Few young trees in wetland.
Numerous herbaceous species

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >12 (in.)

Depth to Saturated Soil: >12 (in.)

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
X Water Marks
X Drift Lines
___ Sediment Deposits
X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
X Oxidized Root Channels in Upper 12 Inches
X Water-Stained Leaves
___ Local Soil Survey Data
X FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:
Numerous drift lines throughout wetland.
Several areas of water stained leaves.

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro, Comple Drainage Class: mod, well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts Confirm Mapped Type? Yes (No) Ends a quad

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-12		2.5YR 4/3	2.5YR 5/3	Many faint Med	clay loam
		10YR 4/2	Deeper in wetland		

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
X Gleyed or Low-Chroma Colors

X Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:
Many ORs
Mn soft masses and concretions @ 4"

Hydrophytic Vegetation Present? (Yes) No
Wetland Hydrology Present? (Yes) No
Hydric Soils Present? (Yes) No
Is this Sampling Point Within a Wetland? (Yes) No

Remarks:
Small wetland @ intersection of two drainage ditches.

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NGBRP
Investigator(s): RGL BNP
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 7/1/08
County: Cass wall
State: NG
Community ID: cypland
Transect ID: WB2
Plot ID: WB2-03

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Celtis occidentalis	C	FACU	9.		
2. Toxicodendron radicans	V	FAC	10.		
3. Acer negundo	C	FACW	11.		
4. Ligustrum japonicum	S/S	FAC	12.		
5. Fraxinus pennsylvanica	C	FACW	13.		
6. Acer saccharinum	C	FACW	14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 5/6 = 83%

Remarks:
Mature trees in cypland

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >12 (in.)

Depth to Saturated Soil: >12 (in.)

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
X Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:
One secondary indicator present.

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro Complex Drainage Class: mod. well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts or Endoaquepts Confirm Mapped Type? Yes (No)

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-12+		10YR 3/4	—	—	clay loam

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors

___ Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:
No redox depletions or concentrations

Hydrophytic Vegetation Present? (Yes) No
Wetland Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

Is this Sampling Point Within a Wetland? Yes (No)

Remarks:
Very similar to wetland. Soils + hydrology missing.

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCBEP
Investigator(s): RSC BNF
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 7/1/08
County: Caswell
State: NC
Community ID: Wetland
Transect ID: WB
Plot ID: WB-03

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Ulmus rubra	C	FAC	9.		
2. Acer saccharinum	C	FACW	10.		
3. Platanus occidentalis	S/S	OBL	11.		
4. Acer negundo	C	FACW	12.		
5. Acer rubrum	C	FAC	13.		
6. Carex sp	H	FACW	14.		
7. Fraxinus penn	C	FACW	15.		
8. Toxicodendron rad	V	FAC	16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 8/8 = 100%

Remarks:
Younger stand of trees in wetland ≈ 5-10 yrs

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >12 (in.)

Depth to Saturated Soil: >12 (in.)

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
X Water Marks
X Drift Lines
X Sediment Deposits
___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
X Oxidized Root Channels in Upper 12 Inches
X Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:
Evidence of standing + flowing water. Soil moist
Dry recently

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro Complex Drainage Class: mod. well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts Confirm Mapped Type? Yes (No)

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-12+		7.5YR 4/4	7.5YR 5/3	Med Faint Comm	Clay loam

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors
___ Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:
ORs present
Mg concretions ≈ 4"

Hydrophytic Vegetation Present? (Yes) No
Wetland Hydrology Present? (Yes) No
Hydric Soils Present? (Yes) No
Is this Sampling Point Within a Wetland? (Yes) No

Remarks:
One of the lowest elevation points on site

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCEEP
Investigator(s): BNF RSC
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 6/30/08
County: Caswell
State: NC
Community ID: cypkd
Transect ID: WB1
Plot ID: WB1-05

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1.	Fraxinus penn	~~[illegible]~~ S	FACW	9.			
2.	Acer negundo	S	FAC+	10.			
3.	Rubus spectus	H	FACU+	11.			
4.	Arisaema dracontium	~~[illegible]~~ H	FAC	12.			
5.	Lonicera japonica	V	FAC-	13.			
6.	Salix sp	H	FAC, FACW	14.			
7.	Carduus sp	H	unknown	15.			
8.	Toxicodendron radicans	V	FAC	16.			

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 6/8 75%

Remarks:
Dense shrub layer, few mature trees

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >14 (in.)

Depth to Saturated Soil: >14 (in.)

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
___ Water Marks
___ Drift Lines
___ Sediment Deposits
___ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 Inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:
No hydrologic indicators present

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro Complex Drainage Class: Mod. well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts Confirm Mapped Type? Yes (No) Endoaquepts

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-14		7.5YR4/4	—	—	loam

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors
___ Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:
No hydric indicators present

Hydrophytic Vegetation Present? (Yes) No
Wetland Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

Is this Sampling Point Within a Wetland? Yes (No)

Remarks:
cypkd lacks riatkd hardwoods.

DATA FORM - ROUTINE WETLAND DETERMINATION

Project/Site: River Bend
Applicant/Owner: NCEEP
Investigator(s): BNF RSL
Do Normal Circumstances exist on the site? (Yes) No
Is the site significantly disturbed (Atypical Situation)? Yes (No)
Is this area a potential Problem Area? Yes (No)

Date: 6/30/08
County: Caswell
State: NC
Community ID: wetland
Transect ID: WB1
Plot ID: WB1-05

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Salix nigra	S	OBL	9. Acer rubra	S	FAC
2. Cephalanthus occid	S	OBL	10. Juncus effusus	H	FACW+
3. Fraxinus penn	S	FACW	11. Carex spp	H	FACW
4. Acer negundo	S	FACW	12. Onoclea sensibilis	H	FACW
5. Sambucus canadensis	S	FACW-	13. Scirpus cyperinus	H	OBL
6. Acer saccharinum	S	FACW	14. Polygonum	H	FACW-OBL
7. Ulmus alata	S	FACU+	15.		
8. Ulmus rubra	S	FAC	16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 13/14 93%

Remarks:
Very few mature trees.
Dense shrub and herbaceous layers

HYDROLOGY

___ Recorded Data (Describe in Remarks)
___ Stream, Lake, or tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)

Depth to Free Water in Pit: >12 (in.)

Depth to Saturated Soil: >12 (in.)

Primary Indicators:
___ Inundated
___ Saturated in Upper 12 Inches
X Water Marks
X Drift Lines
___ Sediment Deposits
X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
X Oxidized Root Channels in Upper 12 Inches
X Water-Stained Leaves
___ Local Soil Survey Data
X FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:
Evidence of flowing and standing water.
No rain recently

SOILS

Map Unit Name (Series & Phase): Codorus-Hatboro Complex Drainage Class: mod. well drained to poorly drained
Taxonomy (Subgroup) Fluvaquentic Dystrudepts + Endoaquepts Confirm Mapped Type? Yes (No)

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-3		10YR 4/4	—	—	clay loam
3-9		10YR 4/4	10YR 5/3	Many Med Dist	clay loam
9-14		10YR 5/3	10YR 5/2	Common Med Faint	clay loam
			7.5YR 5/8	Redox concretions	

HYDRIC INDICATORS

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors

X Concretions
___ High Organic Content in Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:
Many ORs
Mn soft mass and concretions

Hydrophytic Vegetation Present? (Yes) No
Wetland Hydrology Present? (Yes) No
Hydric Soils Present? (Yes) No
Is this Sampling Point Within a Wetland? (Yes) No

Remarks:
Nearby ground water gauges provide evidence of wetland hydrology

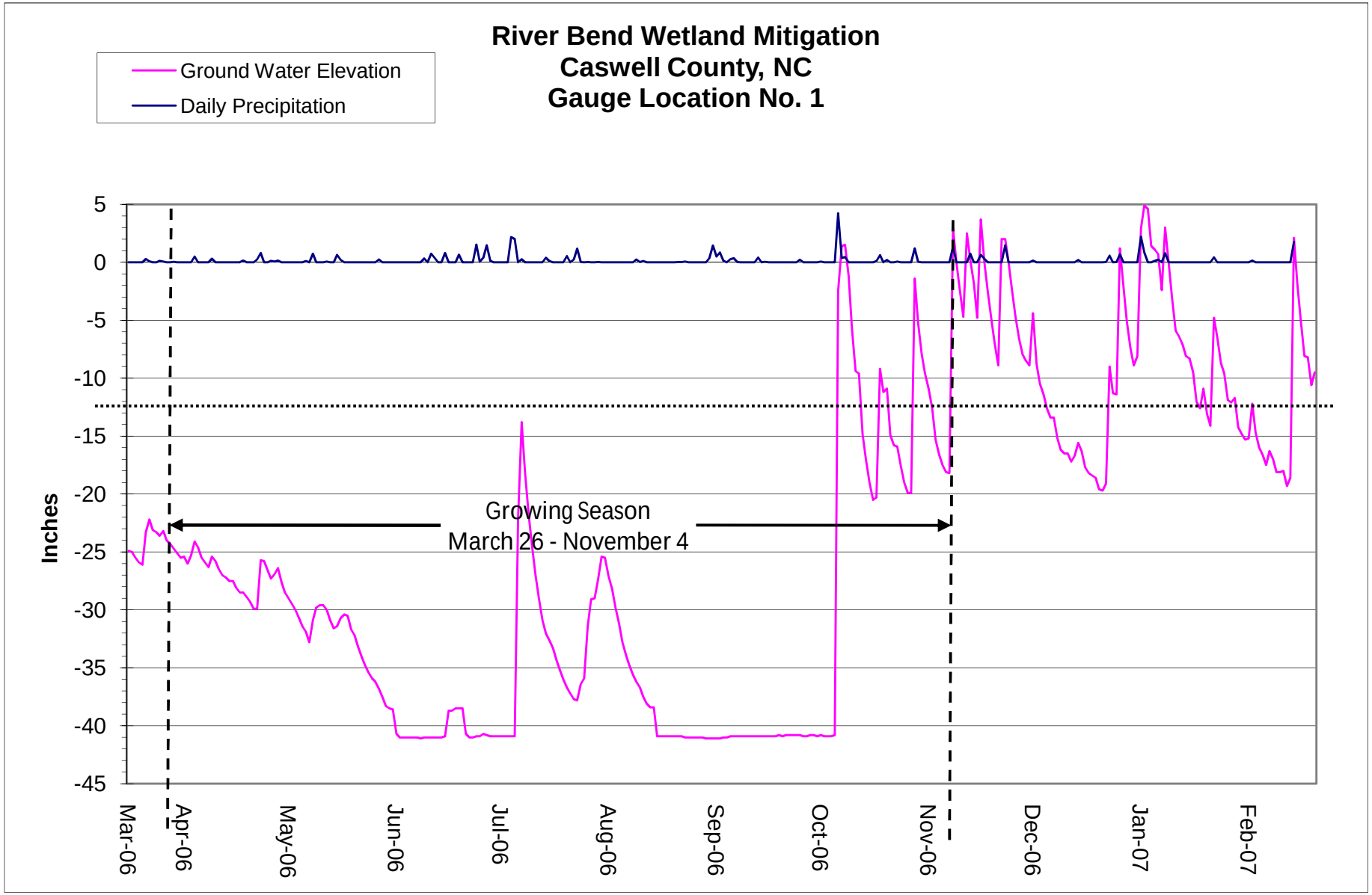
Appendix C

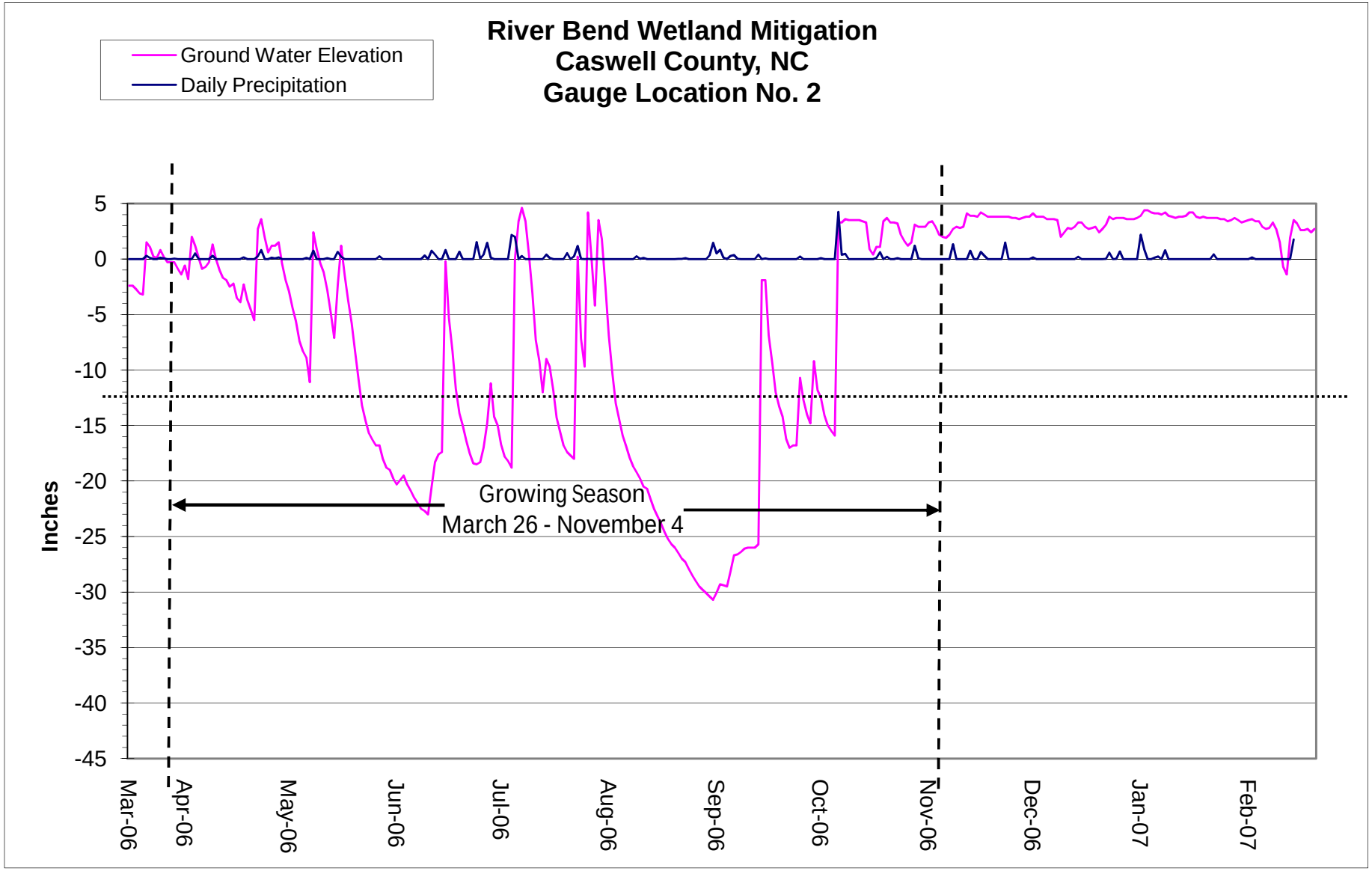
Hydrologic Gauge Data Summary,
Groundwater and Rainfall

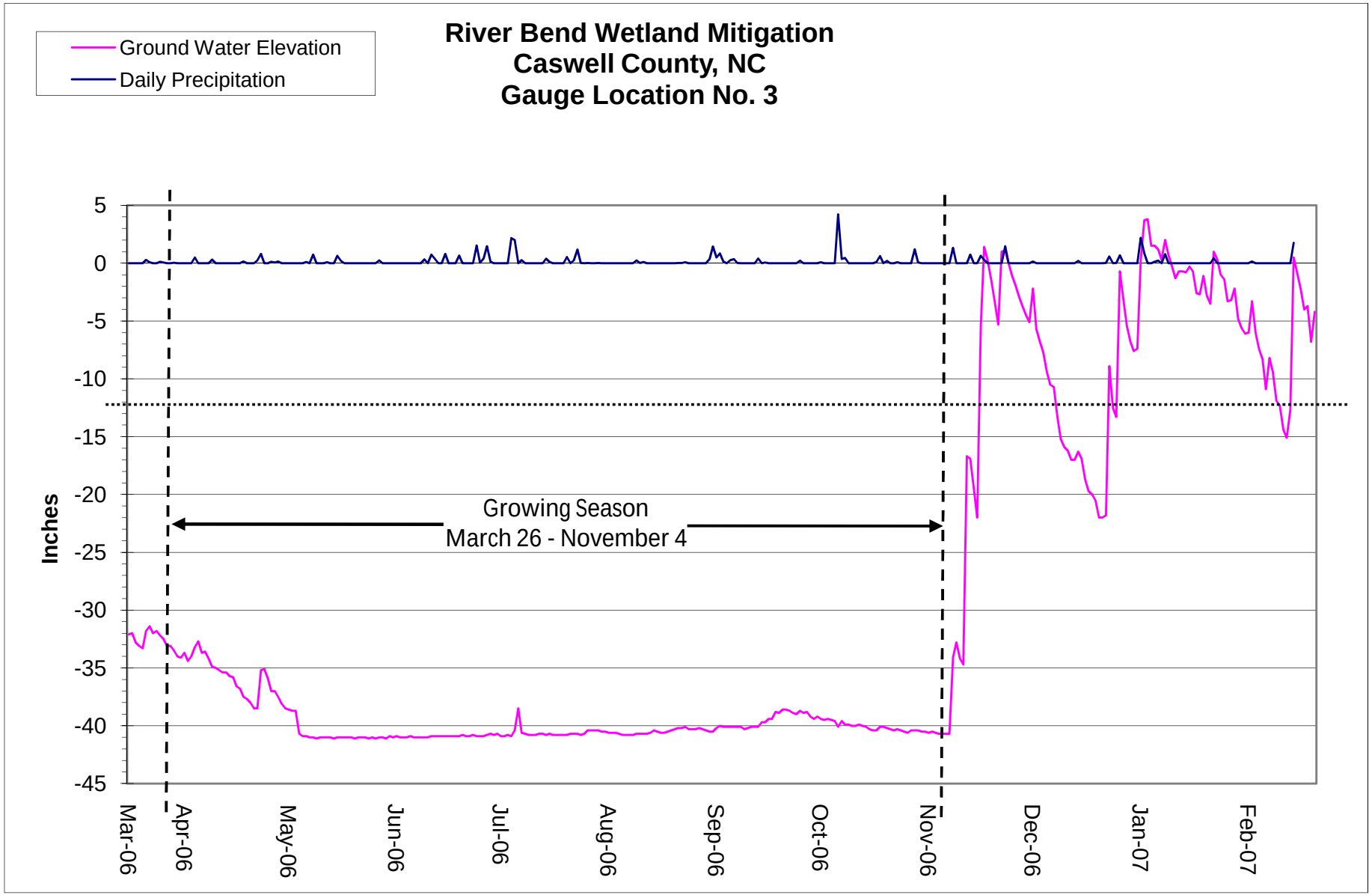
GAUGE SUMMARY TABLE

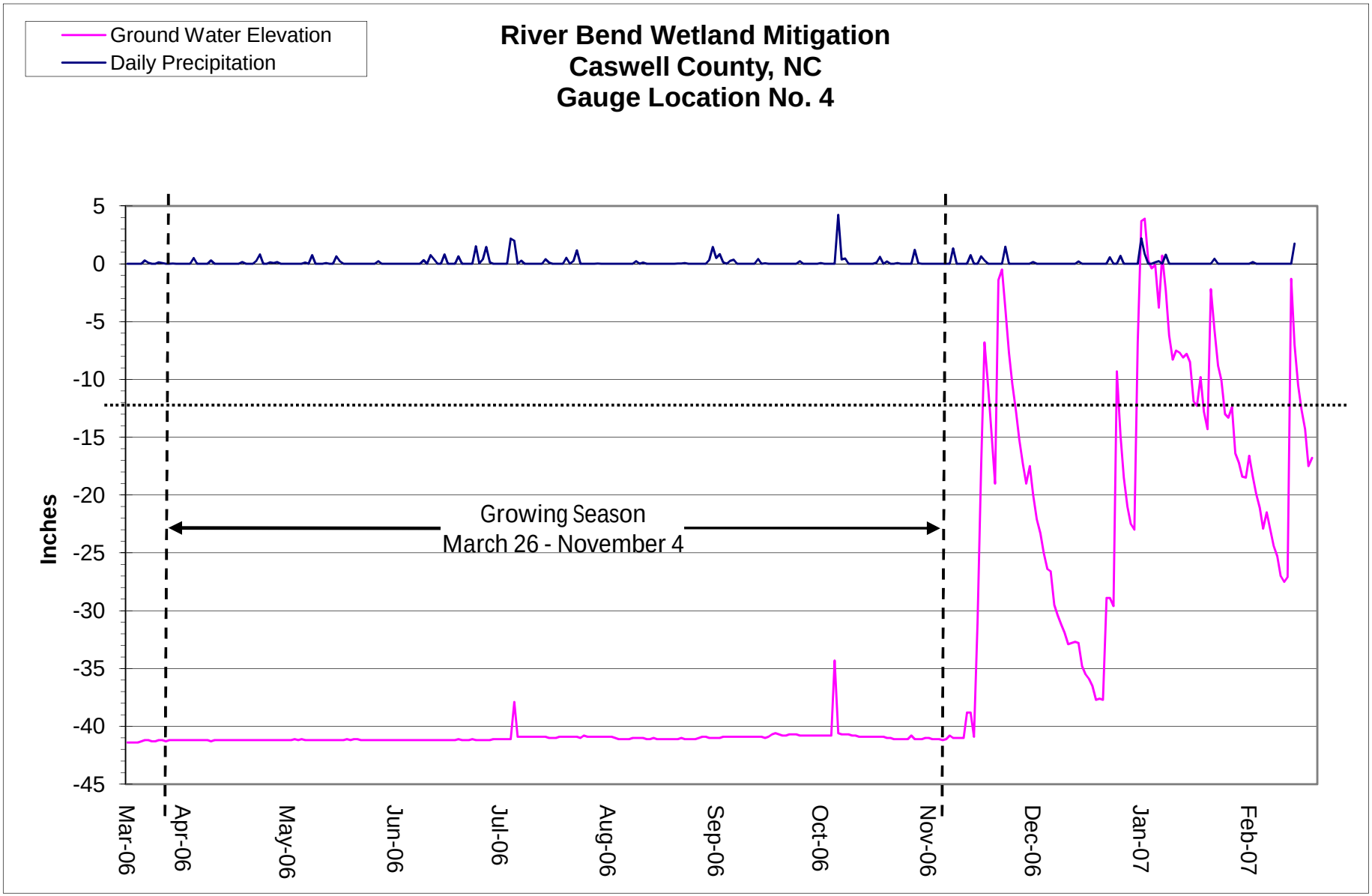
Gauge Number	Consecutive Days within 12" of Ground Surface	Dates	% of Growing Season
1	7	10/6/06-10/12/06	3
	3	10/18/06-10/20/06	1
	5	10/28/06-11/1/06	2
2	57	3/26/06-5/21/06	25
	4	6/15/06-6/18/06	2
	12	7/5/06-7/16/06	5
	11	7/23/06 – 8/2/06	5
	5	9/14/06 – 9/18/06	2
	30	10/6/06 – 4/4/06	13
3	0	-	0
4	0	-	0
5	1	10/6/06	>1
6	0	-	0
7	0	-	0
8	0	-	0
9	0	-	0
10	3	7/6/06 – 7/8/06	1
	1	7/26/06	>1
	1	10/6/06	>1
11	0	-	0
12	0	-	0
13	0	-	0
14	1	7/6/06	>1
	3	10/6/06 – 10/8/06	1
15	0	-	0
16	37	3/26/06 – 5/1/06	17
	1	7/26/06	>1
	5	10/6/06 – 10/10/06	2
	6	10/18/06 – 10/23/06	3
	8	10/28/06 – 11/4/06	4
17	1	3/26/06	>1
	1	4/3/06	>1
	1	4/23/06	>1
18	0	-	0
19	1	7/6/06	>1
	1	10/6/06	>1
20	0	-	0
A	15	10/21/99 – 11/4/99	7
	42	3/26/00 – 5/6/00	19
	4	5/29/00 – 6/1/00	2
	2	6/3/00 – 6/4/00	1
	3	6/6/00 – 6/8/00	1
	12	6/15/00 – 5/26/00	5
	3	6/28/00 – 6/30/00	1
	19	7/29/00 – 8/16/00	8
	13	9/28/00 – 9/9/00	6

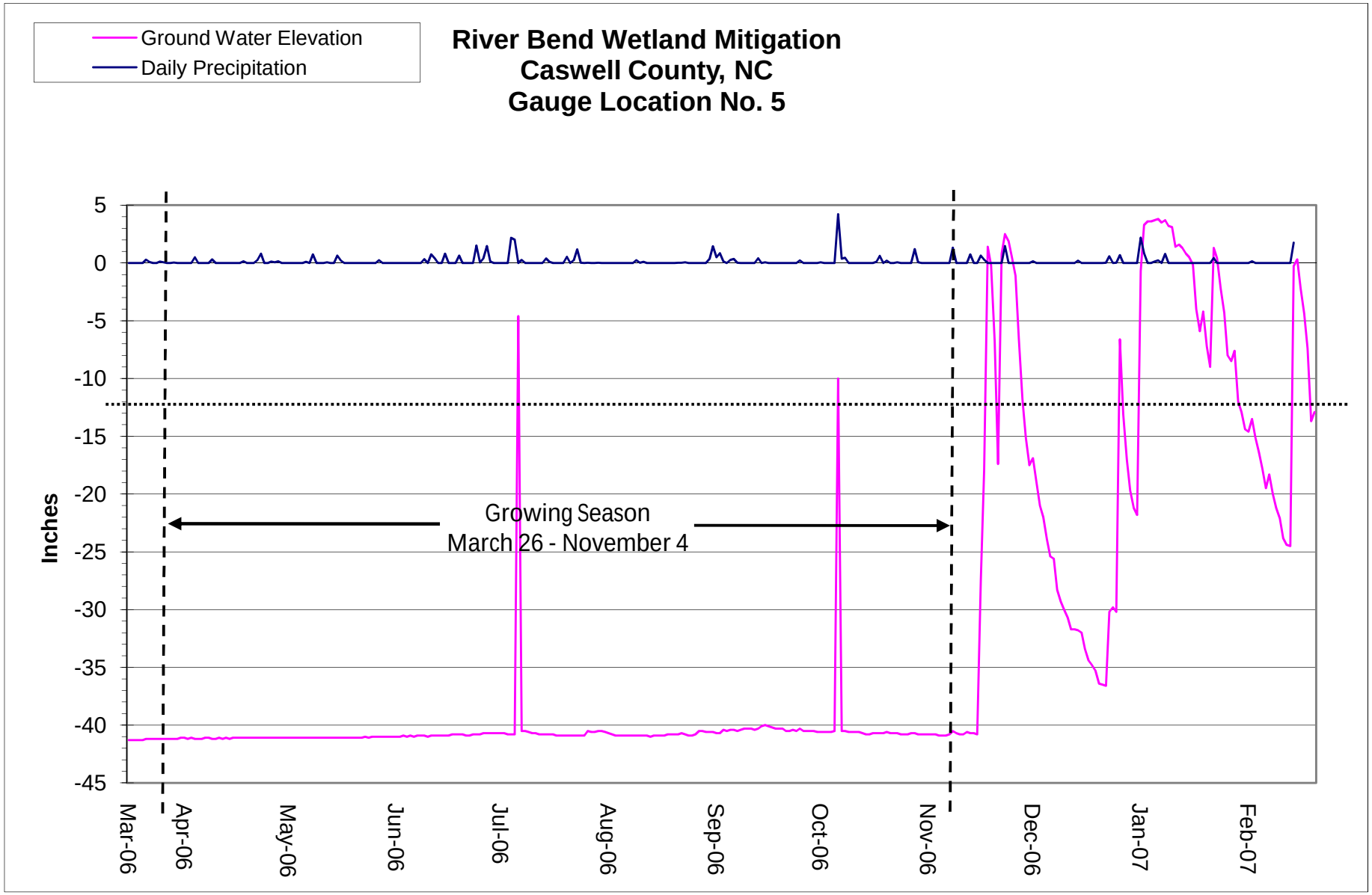
	8	9/26/00 – 10/3/00	4
B	0	-	0
C	0	-	0
E	3	6/21/00 – 6/23/00	1
	2	8/10/00 – 8/11/10	1
	1	8/28/00	>1
	1	9/26/00	>1
F	6	6/21/00 – 6/26/00	3
	3	6/28/00 – 6/30/00	1
	18	7/29/00 – 9/15/00	8
	11	8/28/00 – 9/7/00	5
	5	9/26/00 – 9/30/00	2
G	3	6/21/00 – 6/23/00	1
	2	6/29/00 – 6/30/00	1
	2	7/29/00 – 7/30/00	1
	8	8/1/00 – 8/8/00	4
	5	8/10/00 – 8/14/00	2
	12	8/28/00 – 9/8/00	5
	7	9/25/00 – 10/1/00	3
H	5	6/22/00 – 6/26/00	2
	3	6/28/00 – 6/30/00	1
	4	8/4/00 – 8/7/00	2
	3	8/10/00 – 8/12/00	1
	10	8/28/00 – 9/6/00	4
	1	9/26/00	>1
I	47	3/26/00 – 5/11/00	21
	4	5/29/00 – 6/1/00	2
	1	6/6/00	>1
	16	6/16/00 – 7/1/00	7
	1	7/29/00	>1
	2	8/10/00 – 8/11/00	1
	2	8/28/00 – 8/29/00	1
	1	8/31/00	>1
	1	9/26/00	>1
K	149	3/26/00 – 8/21/00	67
	13	8/31/00 – 9/12/00	6
	1	9/29/00	>1
L	7	10/6/99 – 10/12/99	3
	41	3/26/00 – 5/5/00	18
	4	5/29/00 – 6/1/00	2
	3	6/6/00 – 6/8/00	1
	12	6/15/00 – 6/26/00	5
	5	6/28/00 – 7/2/00	2
	11	7/29/00 – 8/8/00	5
	6	8/10/00 – 8/15/00	3
	11	8/28/00 – 8/7/00	5
	1	9/21/00	>1
	5	9/25/00 – 9/29/00	2
	1	10/1/00	>1
M	0	-	0

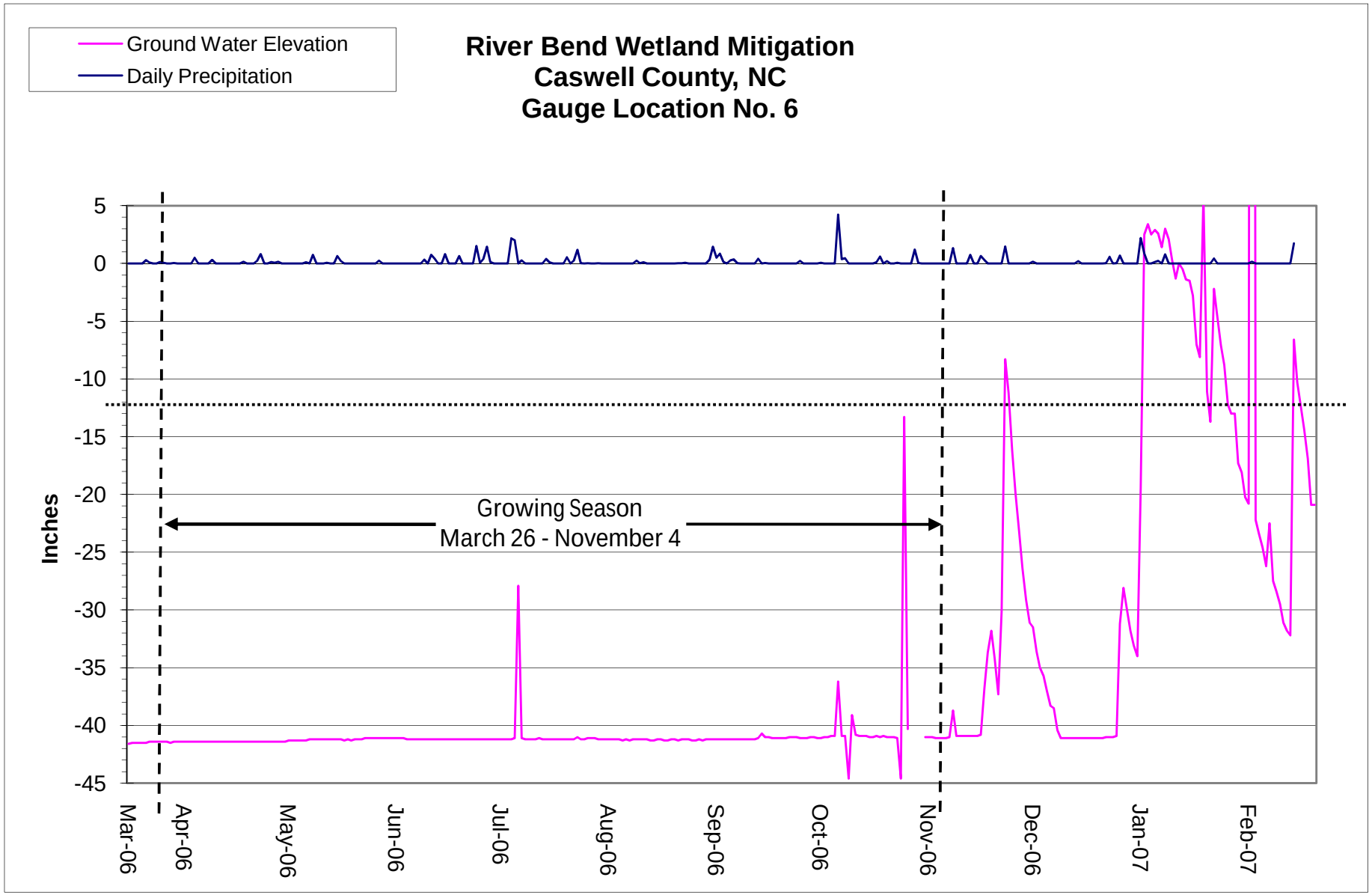

River Bend Wetland Mitigation
Caswell County, NC
Gauge Location No. 1
Ground Water Elevation
Daily Precipitation
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07

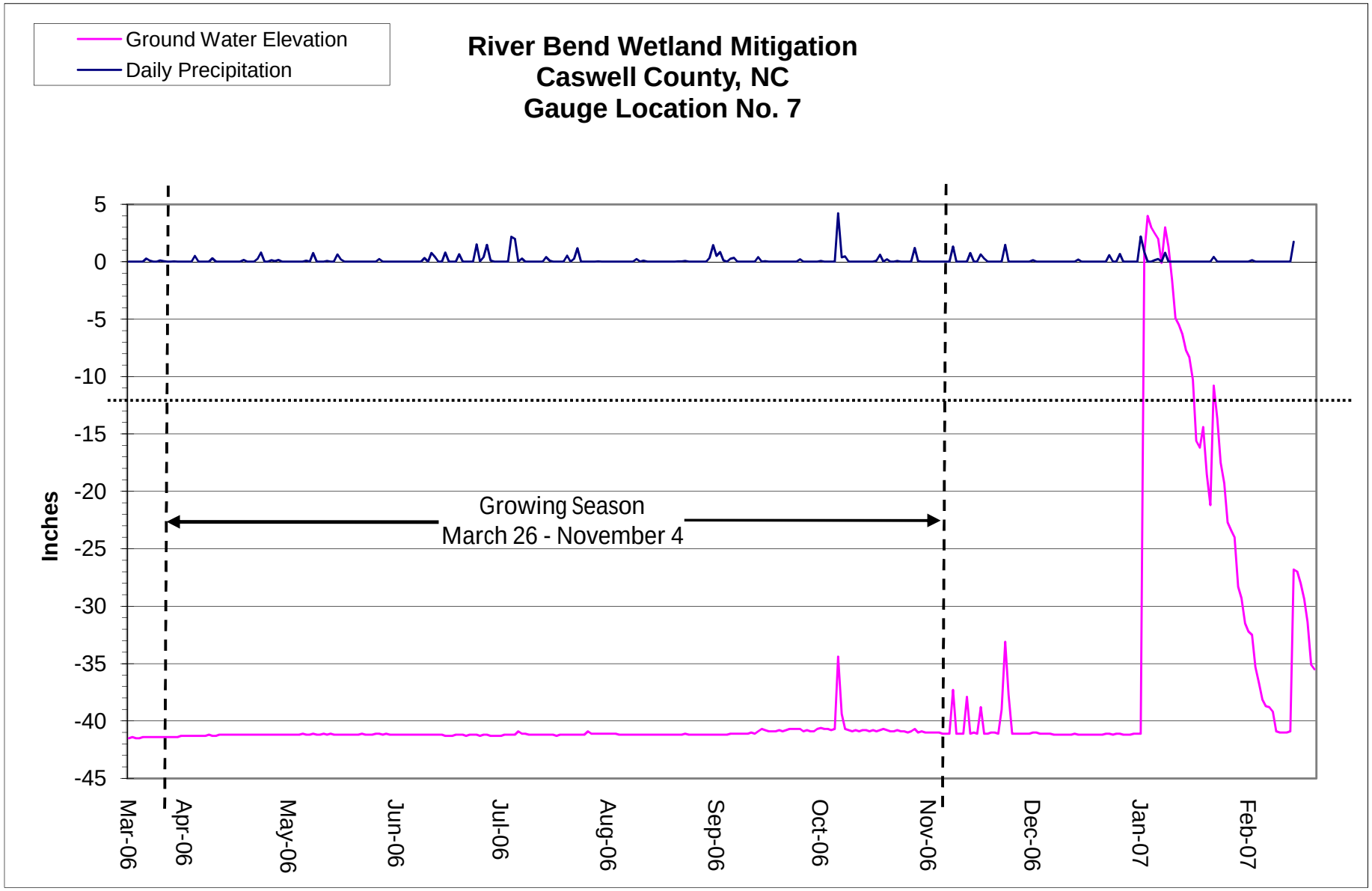

River Bend Wetland Mitigation
Caswell County, NC
Gauge Location No. 2
Ground Water Elevation
Daily Precipitation
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07

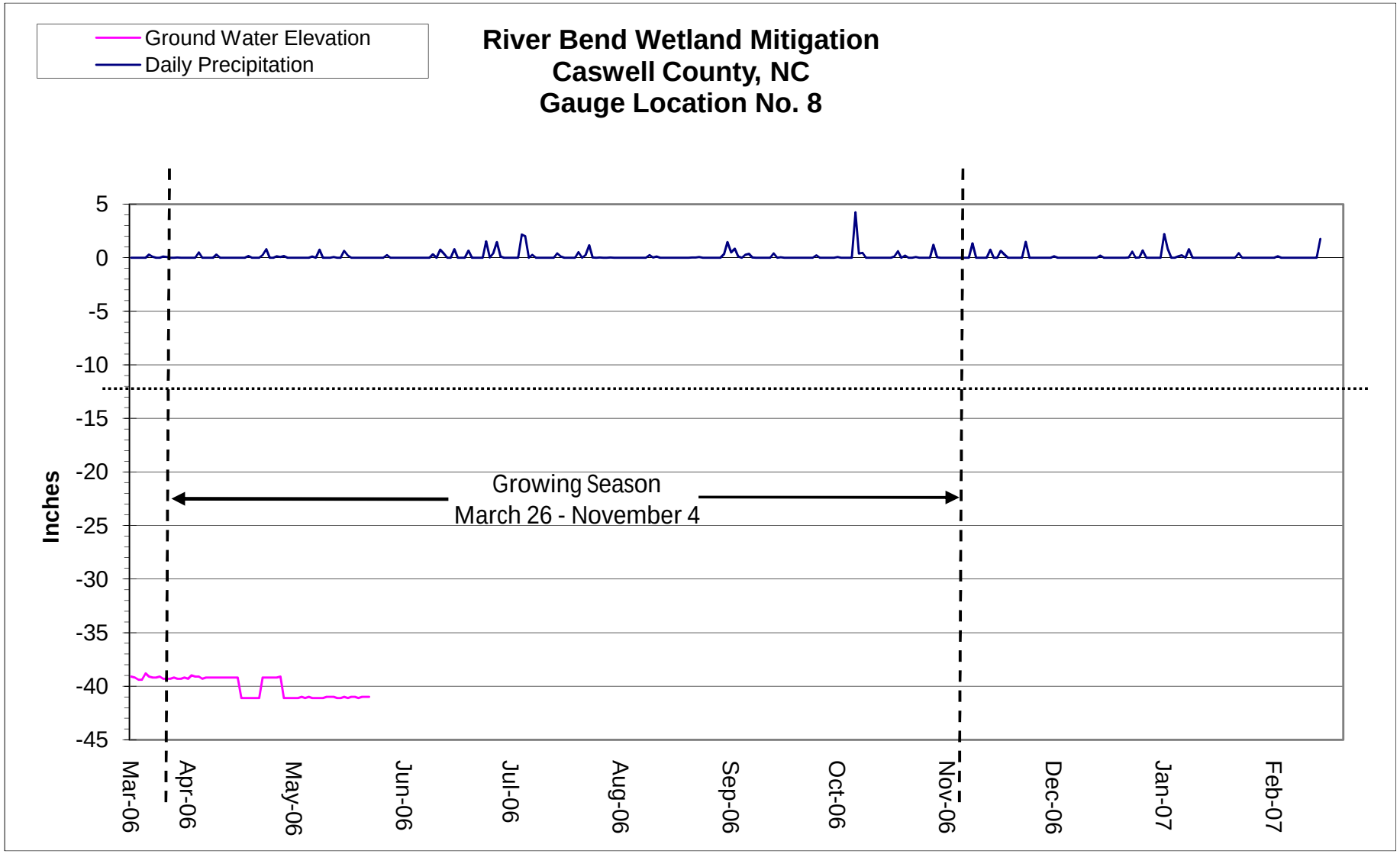

Ground Water Elevation
Daily Precipitation
River Bend Wetland Mitigation
Caswell County, NC
Gauge Location No. 3
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07

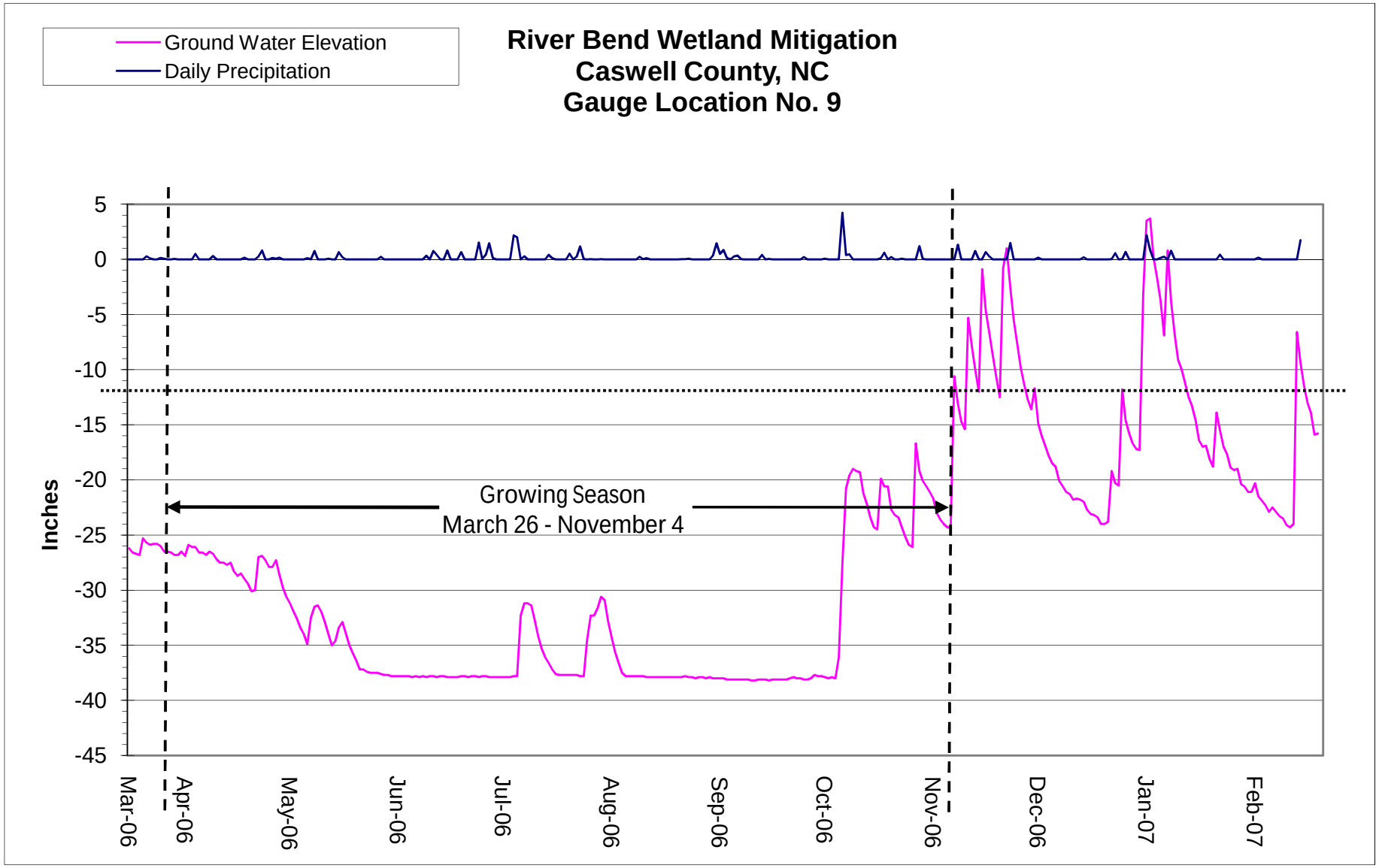

Ground Water Elevation
Daily Precipitation
River Bend Wetland Mitigation
Caswell County, NC
Gauge Location No. 4
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07

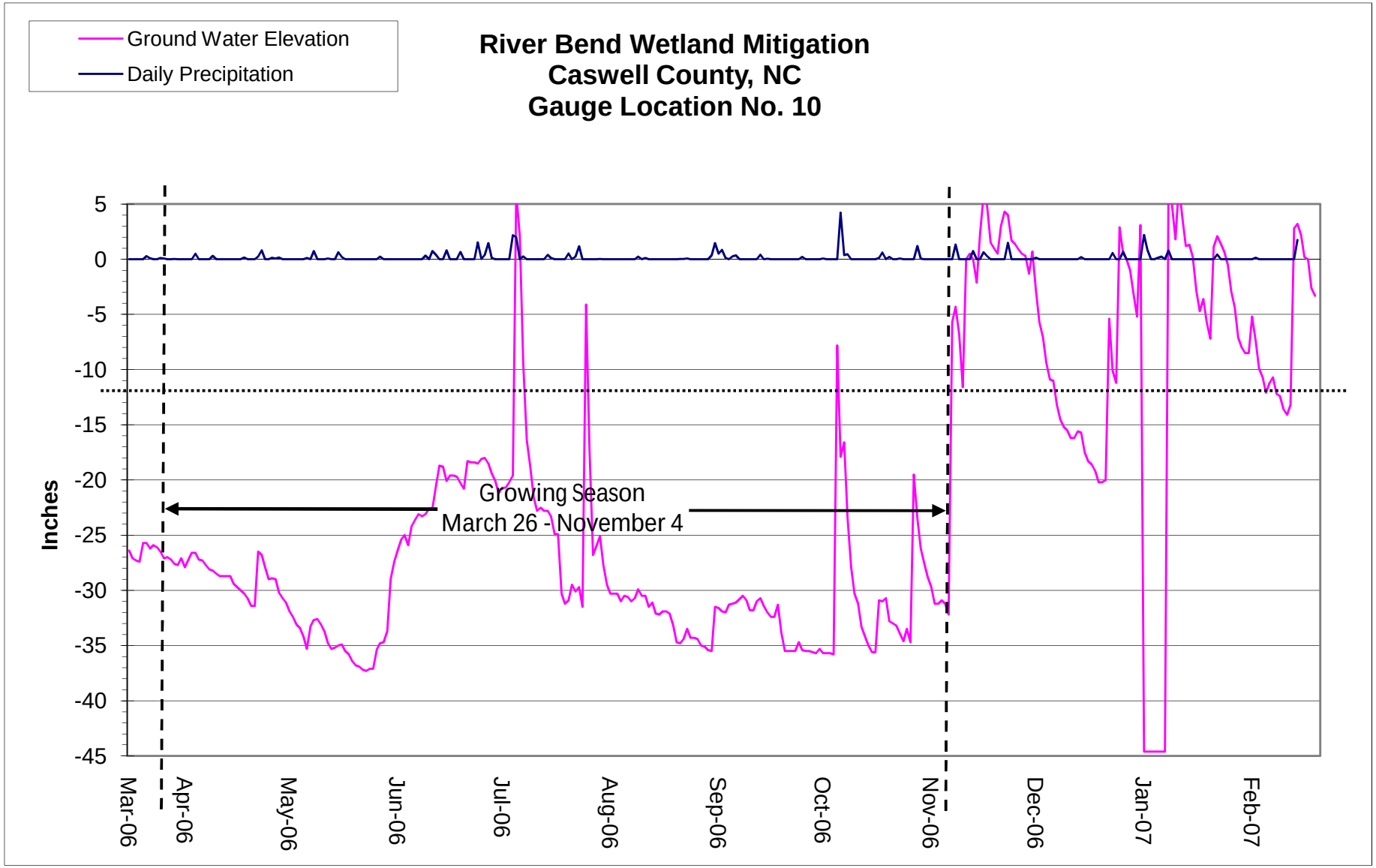

Ground Water Elevation
Daily Precipitation
River Bend Wetland Mitigation
Caswell County, NC
Gauge Location No. 5
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07

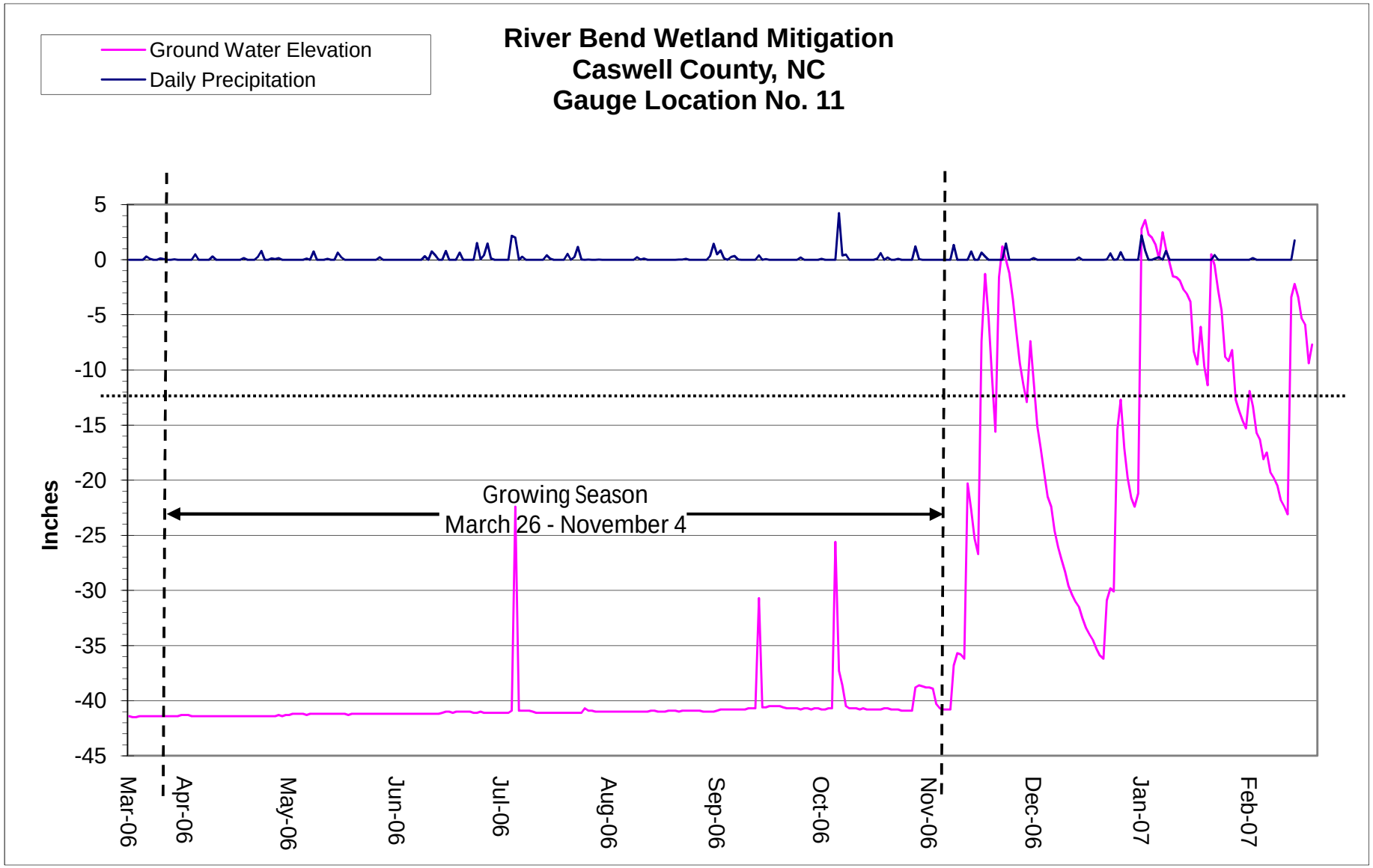

Ground Water Elevation
Daily Precipitation
River Bend Wetland Mitigation
Caswell County, NC
Gauge Location No. 6
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07

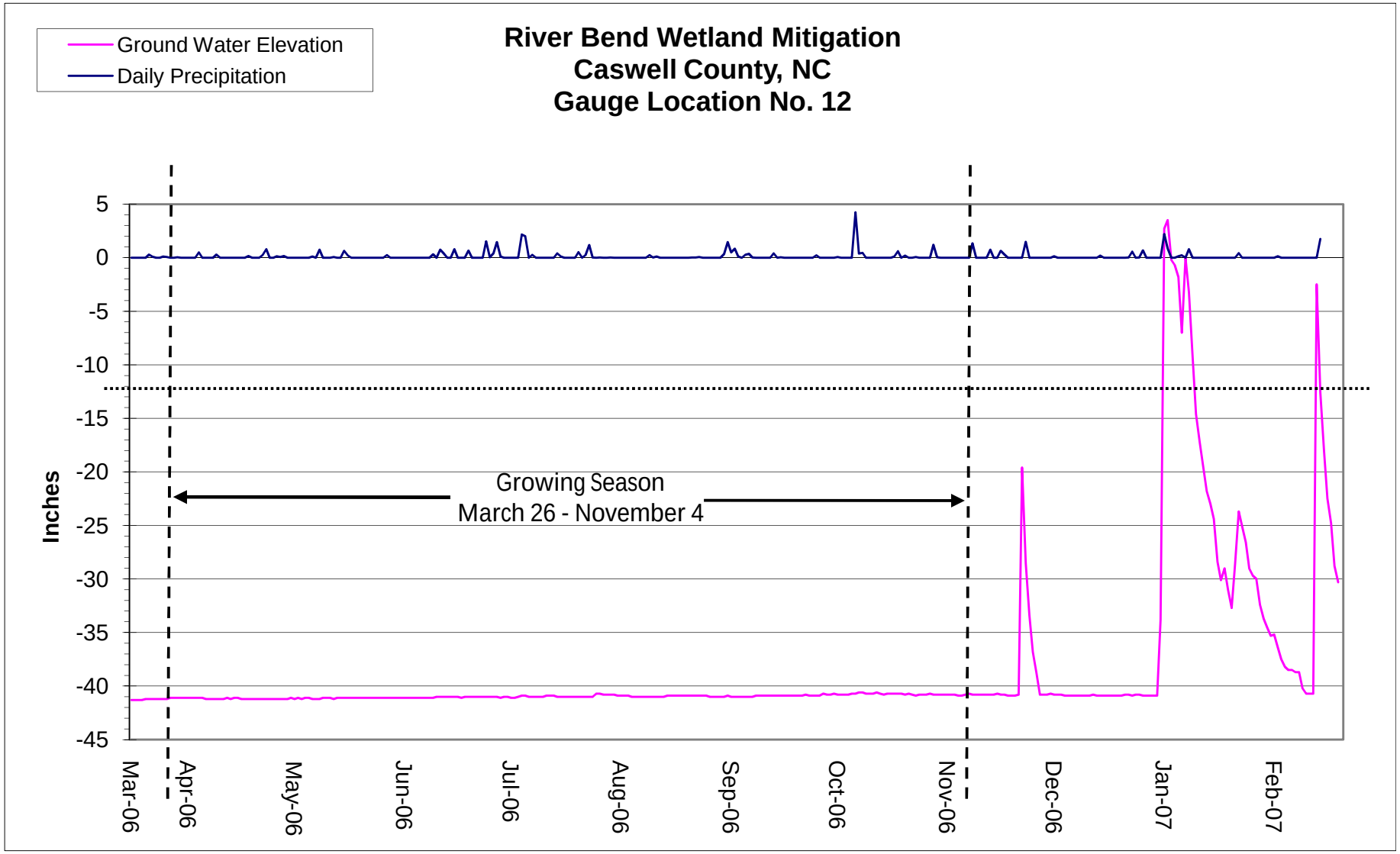

Ground Water Elevation
Daily Precipitation
River Bend Wetland Mitigation
Caswell County, NC
Gauge Location No. 7
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07

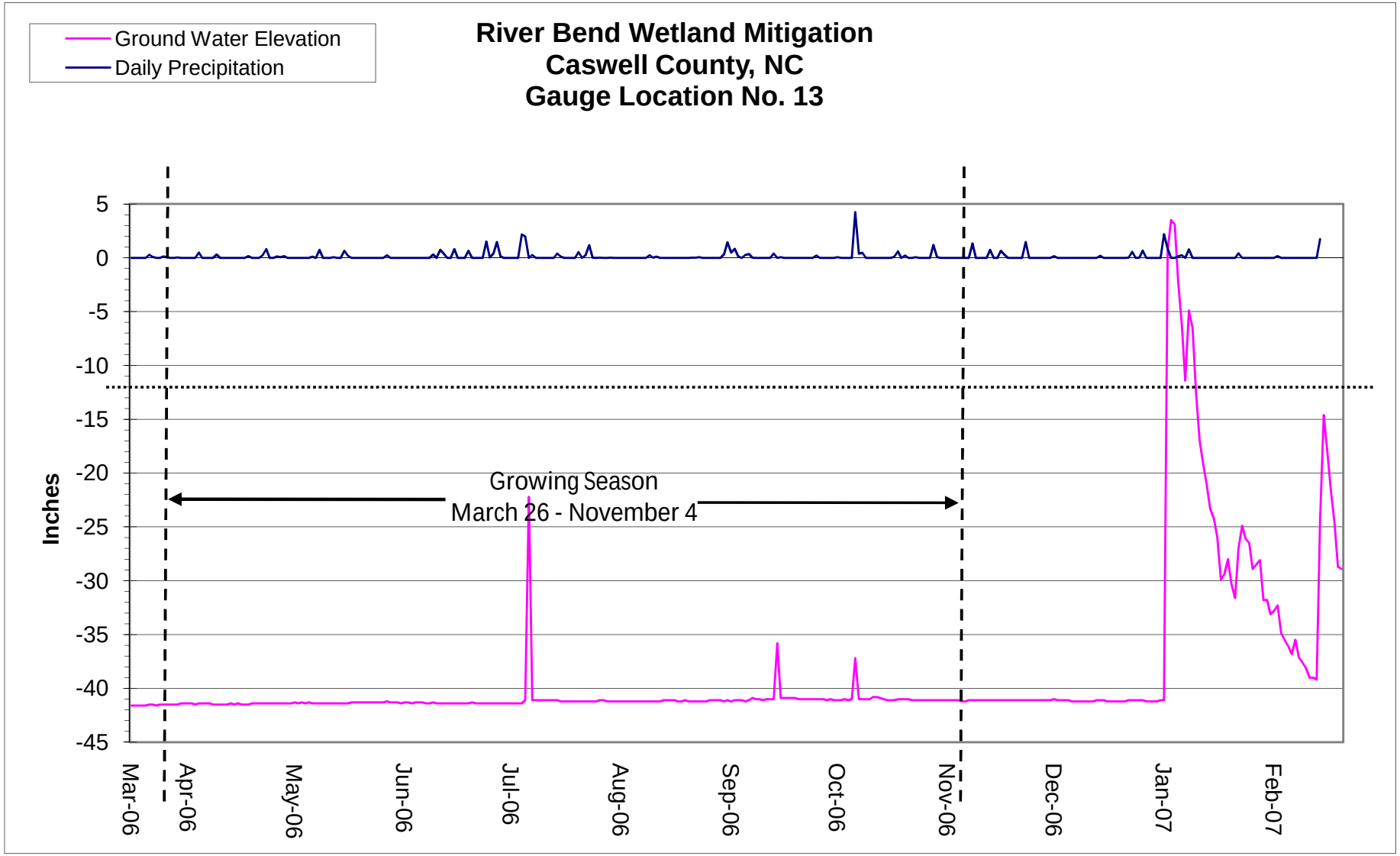

Ground Water Elevation
Daily Precipitation
River Bend Wetland Mitigation
Caswell County, NC
Gauge Location No. 8
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07

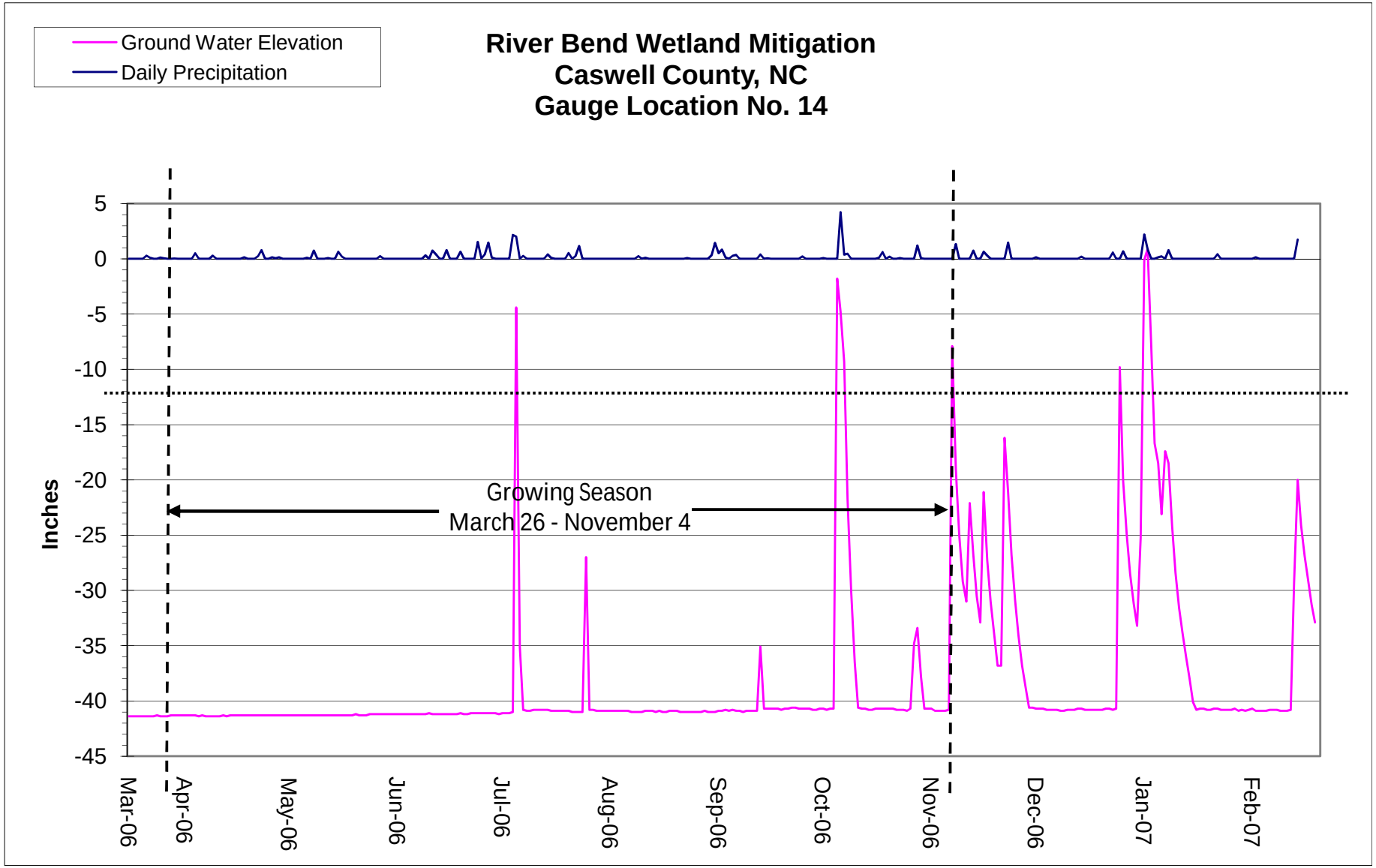

Ground Water Elevation
Daily Precipitation
River Bend Wetland Mitigation
Caswell County, NC
Gauge Location No. 9
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07

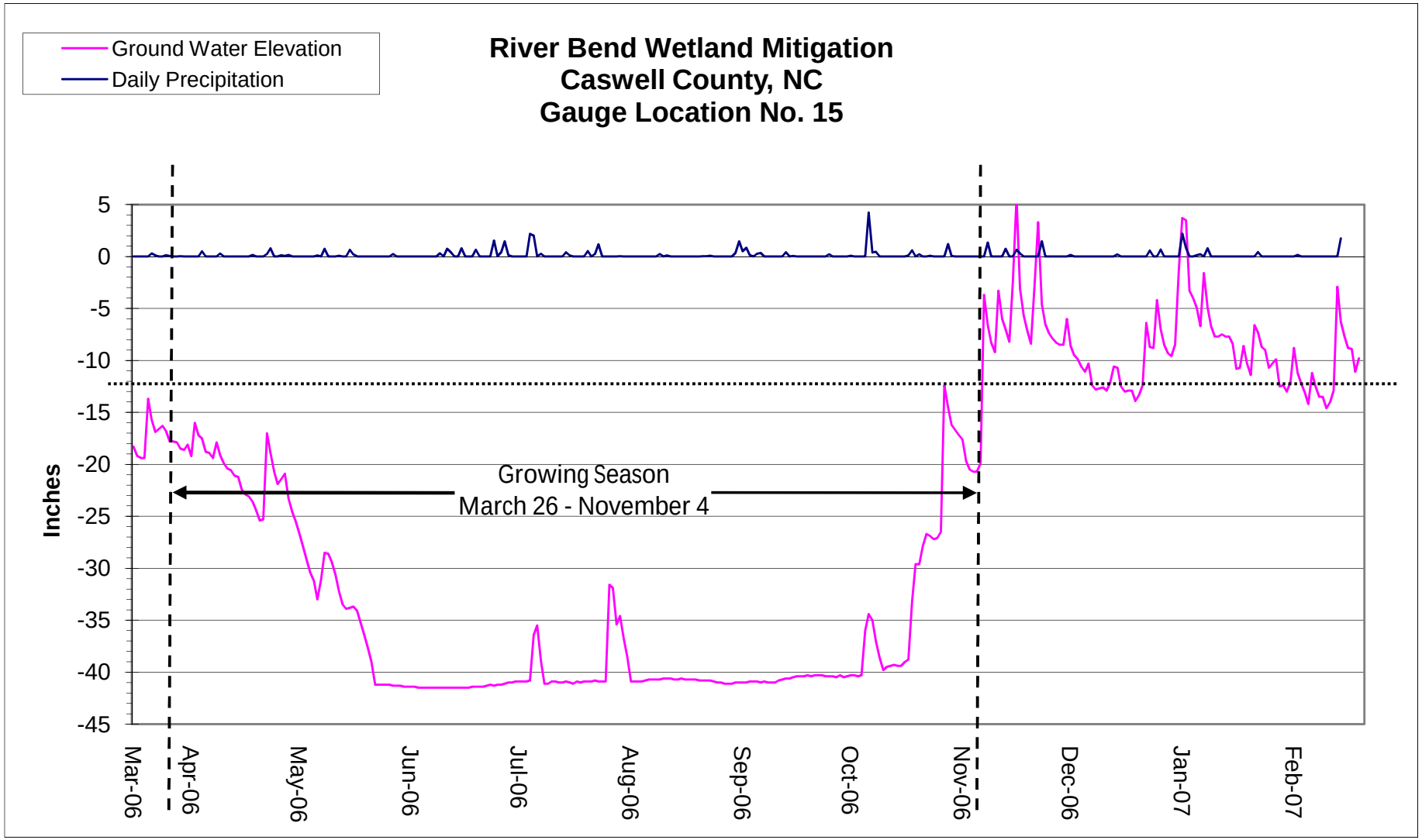

Ground Water Elevation
Daily Precipitation
River Bend Wetland Mitigation
Caswell County, NC
Gauge Location No. 10
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07

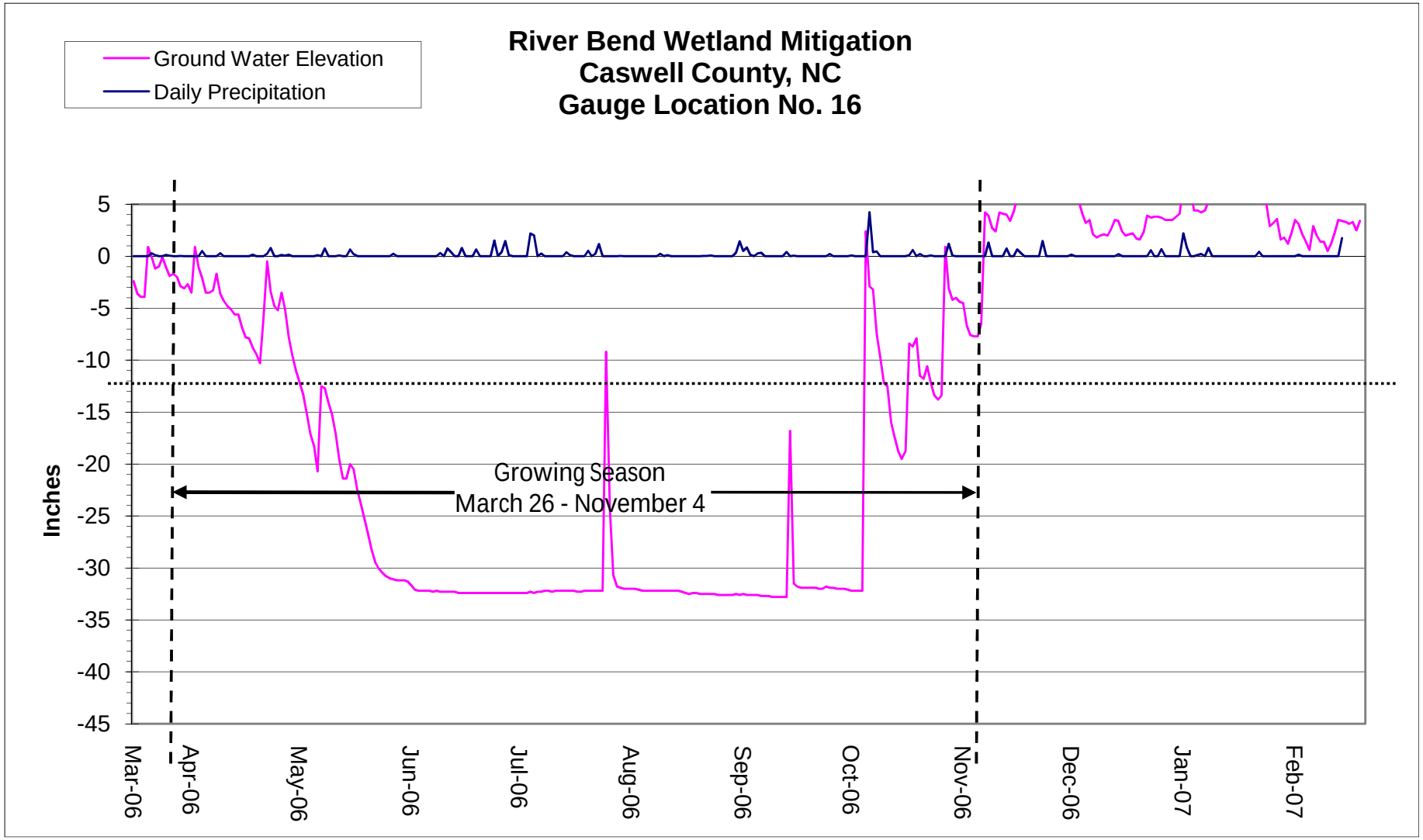

Ground Water Elevation
Daily Precipitation
River Bend Wetland Mitigation
Caswell County, NC
Gauge Location No. 11
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07

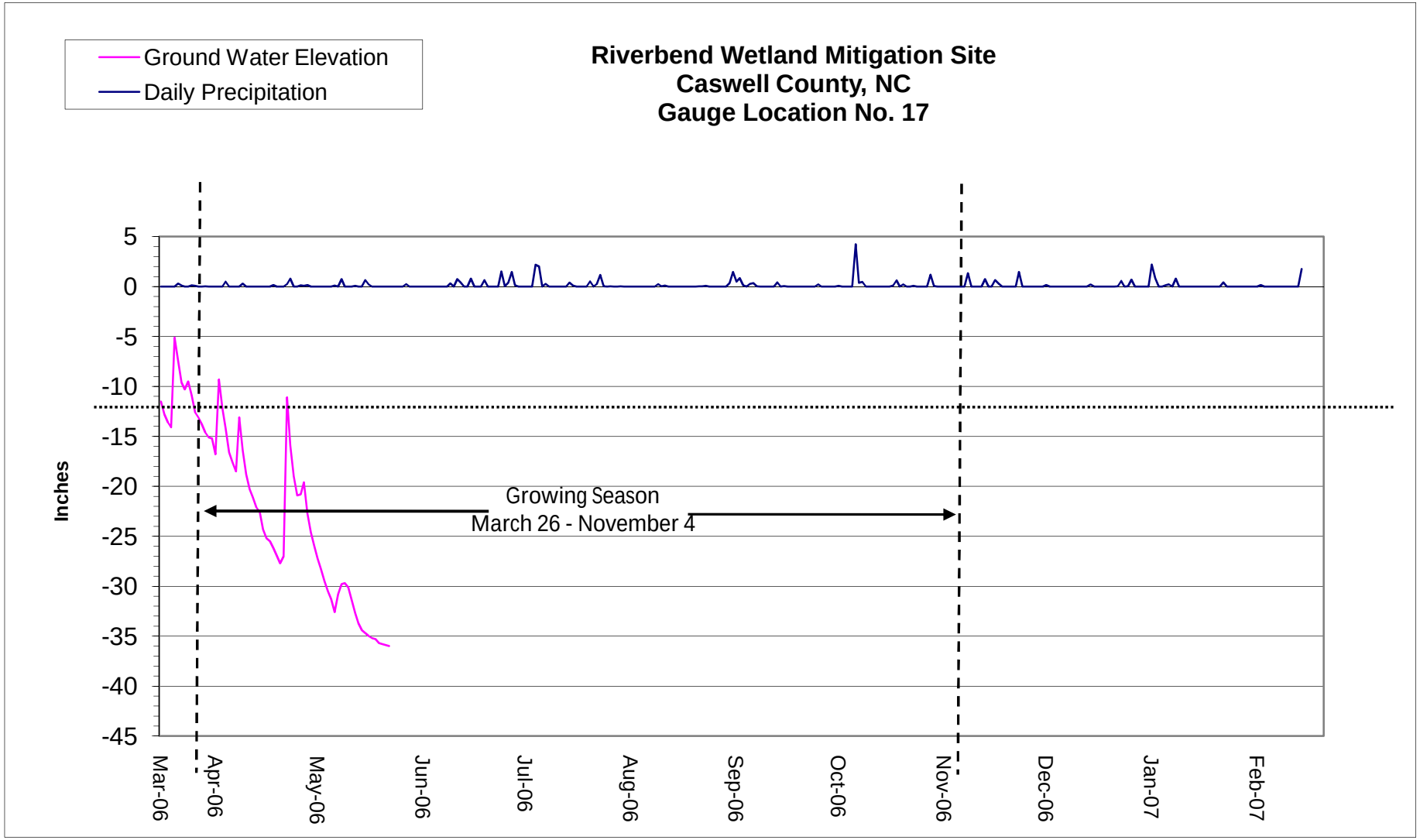

Ground Water Elevation
Daily Precipitation
River Bend Wetland Mitigation
Caswell County, NC
Gauge Location No. 12
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07

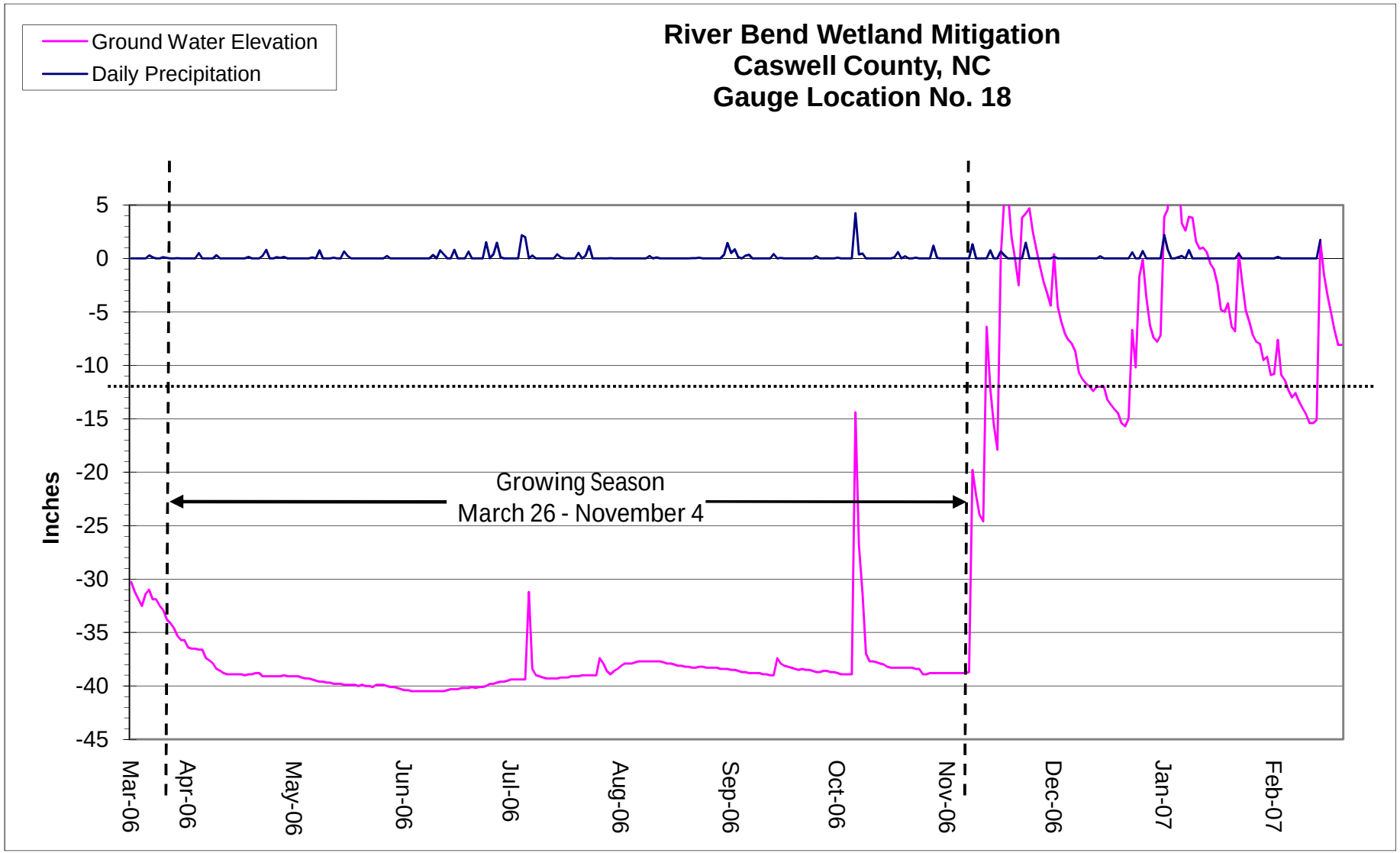

Ground Water Elevation
Daily Precipitation
River Bend Wetland Mitigation
Caswell County, NC
Gauge Location No. 13
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07

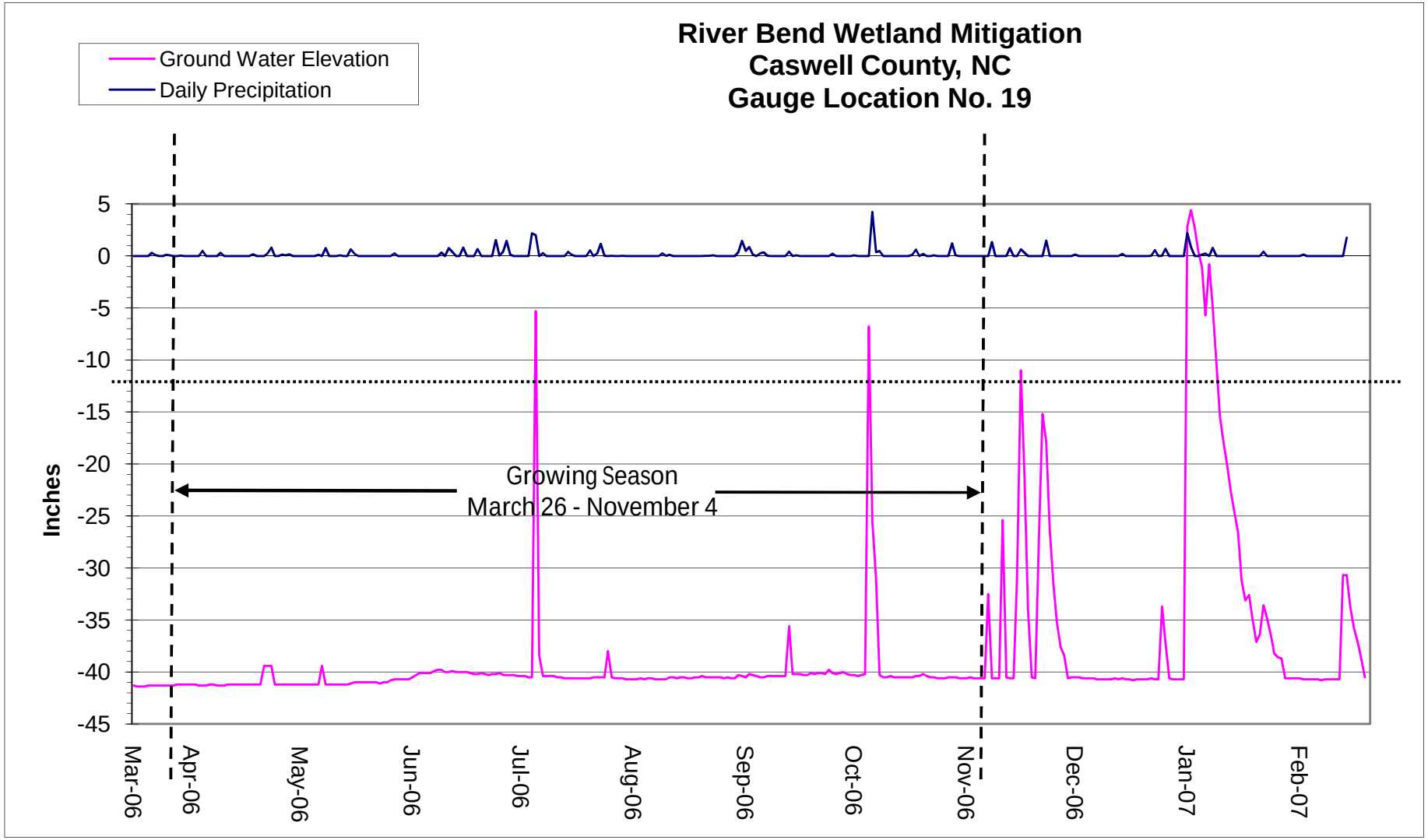

Ground Water Elevation
Daily Precipitation
River Bend Wetland Mitigation
Caswell County, NC
Gauge Location No. 14
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07

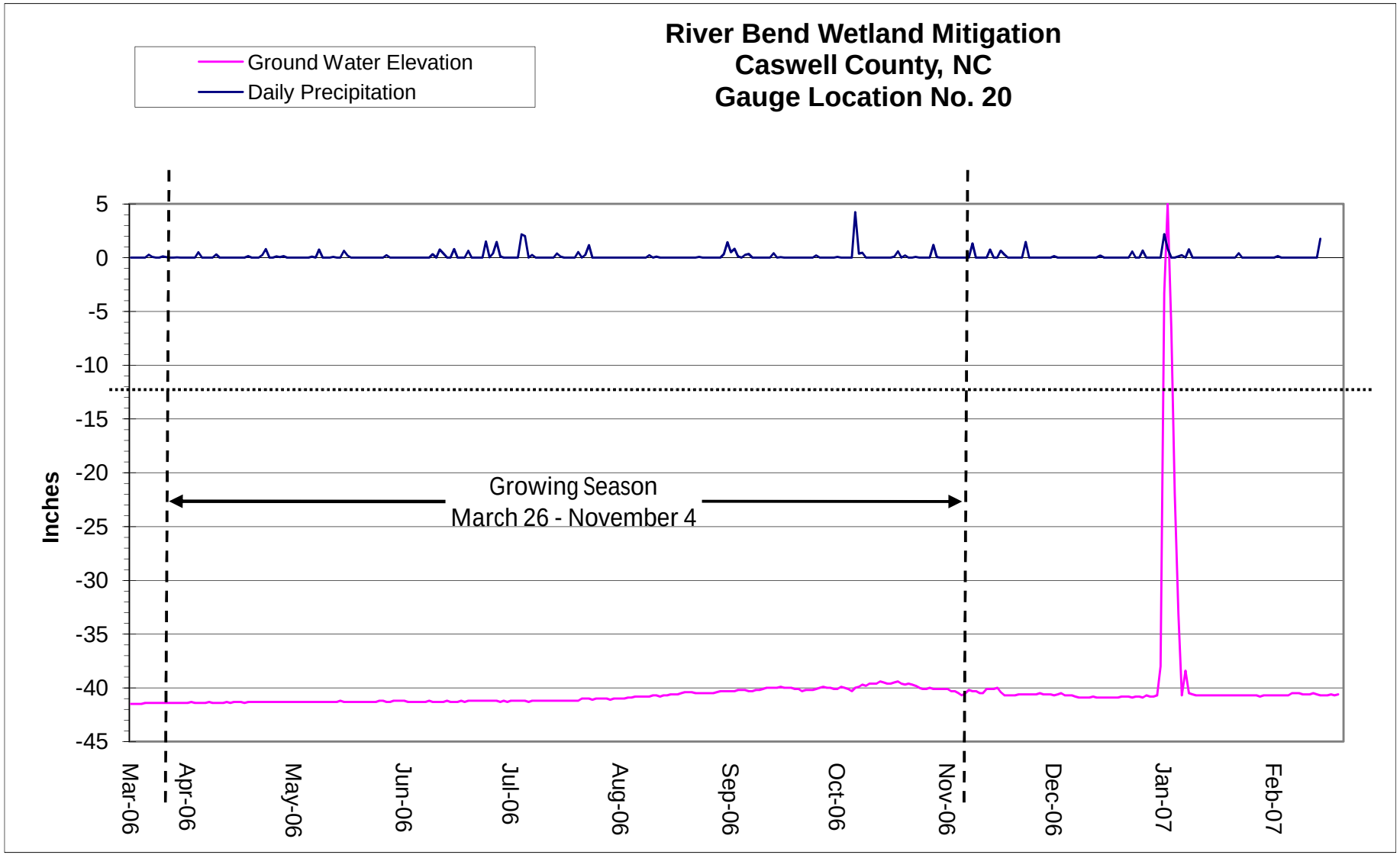

Ground Water Elevation
Daily Precipitation
River Bend Wetland Mitigation
Caswell County, NC
Gauge Location No. 15
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07


River Bend Wetland Mitigation
Caswell County, NC
Gauge Location No. 16
Ground Water Elevation
Daily Precipitation
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07


Ground Water Elevation
Daily Precipitation
Riverbend Wetland Mitigation Site
Caswell County, NC
Gauge Location No. 17
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07


Ground Water Elevation
Daily Precipitation
River Bend Wetland Mitigation
Caswell County, NC
Gauge Location No. 18
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07


River Bend Wetland Mitigation
Caswell County, NC
Gauge Location No. 19
Ground Water Elevation
Daily Precipitation
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07


River Bend Wetland Mitigation
Caswell County, NC
Gauge Location No. 20
Ground Water Elevation
Daily Precipitation
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Growing Season
March 26 - November 4
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07

River Bend 1
Data Installed : March 15, 2006
Serial Number: 9DE4234
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06	-24.9			13-May-06	-30.9		49	10-Jul-06	-24.4		107	6-Sep-06	-40.9		165
17-Mar-06	-25			14-May-06	-31.6		50	11-Jul-06	-27		108	7-Sep-06	-40.9		166
18-Mar-06	-25.5			15-May-06	-31.4		51	12-Jul-06	-29		109	8-Sep-06	-40.9		167
19-Mar-06	-25.9			16-May-06	-30.7		52	13-Jul-06	-30.9		110	9-Sep-06	-40.9		168
20-Mar-06	-26.1			17-May-06	-30.4		53	14-Jul-06	-32		111	10-Sep-06	-40.9		169
21-Mar-06	-23.3			18-May-06	-30.5		54	15-Jul-06	-32.6		112	11-Sep-06	-40.9		170
22-Mar-06	-22.2			19-May-06	-31.7		55	16-Jul-06	-33.3		113	12-Sep-06	-40.9		171
23-Mar-06	-23.1			20-May-06	-32.2		56	17-Jul-06	-34.3		114	13-Sep-06	-40.9		172
24-Mar-06	-23.3			21-May-06	-33.2		57	18-Jul-06	-35.2		115	14-Sep-06	-40.9		173
25-Mar-06	-23.6			22-May-06	-34		58	19-Jul-06	-36		116	15-Sep-06	-40.9		174
26-Mar-06	-23.2		1	23-May-06	-34.8		59	20-Jul-06	-36.7		117	16-Sep-06	-40.9		175
27-Mar-06	-24		2	24-May-06	-35.4		60	21-Jul-06	-37.2		118	17-Sep-06	-40.9		176
28-Mar-06	-24.3		3	25-May-06	-35.9		61	22-Jul-06	-37.7		119	18-Sep-06	-40.9		177
29-Mar-06	-24.7		4	26-May-06	-36.2		62	23-Jul-06	-37.8		120	19-Sep-06	-40.8		178
30-Mar-06	-25.1		5	27-May-06	-36.8		63	24-Jul-06	-36.4		121	20-Sep-06	-40.9		179
31-Mar-06	-25.5		6	28-May-06	-37.5		64	25-Jul-06	-35.9		122	21-Sep-06	-40.8		180
1-Apr-06	-25.4		7	29-May-06	-38.3		65	26-Jul-06	-31.4		123	22-Sep-06	-40.8		181
2-Apr-06	-26		8	30-May-06	-38.5		66	27-Jul-06	-29.1		124	23-Sep-06	-40.8		182
3-Apr-06	-25.3		9	31-May-06	-38.6		67	28-Jul-06	-29		125	24-Sep-06	-40.8		183
4-Apr-06	-24.1		10	1-Jun-06	-40.7		68	29-Jul-06	-27.4		126	25-Sep-06	-40.8		184
5-Apr-06	-24.6		11	2-Jun-06	-41		69	30-Jul-06	-25.4		127	26-Sep-06	-40.9		185
6-Apr-06	-25.5		12	3-Jun-06	-41		70	31-Jul-06	-25.5		128	27-Sep-06	-40.9		186
7-Apr-06	-25.9		13	4-Jun-06	-41		71	1-Aug-06	-27.1		129	28-Sep-06	-40.8		187
8-Apr-06	-26.3		14	5-Jun-06	-41		72	2-Aug-06	-28.2		130	29-Sep-06	-40.8		188
9-Apr-06	-25.4		15	6-Jun-06	-41		73	3-Aug-06	-29.8		131	30-Sep-06	-40.9		189
10-Apr-06	-25.8		16	7-Jun-06	-41		74	4-Aug-06	-31.2		132	1-Oct-06	-40.8		190
11-Apr-06	-26.5		17	8-Jun-06	-41.1		75	5-Aug-06	-32.8		133	2-Oct-06	-40.9		191
12-Apr-06	-27		18	9-Jun-06	-41		76	6-Aug-06	-33.9		134	3-Oct-06	-40.9		192
13-Apr-06	-27.2		19	10-Jun-06	-41		77	7-Aug-06	-34.8		135	4-Oct-06	-40.9		193
14-Apr-06	-27.5		20	11-Jun-06	-41		78	8-Aug-06	-35.6		136	5-Oct-06	-40.8		194
15-Apr-06	-27.5		21	12-Jun-06	-41		79	9-Aug-06	-36.2		137	6-Oct-06	-2.5	1	195
16-Apr-06	-28.1		22	13-Jun-06	-41		80	10-Aug-06	-36.7		138	7-Oct-06	1.4	2	196
17-Apr-06	-28.5		23	14-Jun-06	-41		81	11-Aug-06	-37.5		139	8-Oct-06	1.5	3	197
18-Apr-06	-28.5		24	15-Jun-06	-40.9		82	12-Aug-06	-38.1		140	9-Oct-06	-1.2	4	198
19-Apr-06	-28.9		25	16-Jun-06	-38.7		83	13-Aug-06	-38.4		141	10-Oct-06	-5.8	5	199
20-Apr-06	-29.3		26	17-Jun-06	-38.7		84	14-Aug-06	-38.4		142	11-Oct-06	-9.4	6	200
21-Apr-06	-29.9		27	18-Jun-06	-38.5		85	15-Aug-06	-40.9		143	12-Oct-06	-9.6	7	201
22-Apr-06	-29.9		28	19-Jun-06	-38.5		86	16-Aug-06	-40.9		144	13-Oct-06	-14.8		202
23-Apr-06	-25.7		29	20-Jun-06	-38.5		87	17-Aug-06	-40.9		145	14-Oct-06	-17		203
24-Apr-06	-25.8		30	21-Jun-06	-40.7		88	18-Aug-06	-40.9		146	15-Oct-06	-19		204
25-Apr-06	-26.6		31	22-Jun-06	-41		89	19-Aug-06	-40.9		147	16-Oct-06	-20.5		205
26-Apr-06	-27.3		32	23-Jun-06	-41		90	20-Aug-06	-40.9		148	17-Oct-06	-20.3		206
27-Apr-06	-26.9		33	24-Jun-06	-40.9		91	21-Aug-06	-40.9		149	18-Oct-06	-9.2	1	207
28-Apr-06	-26.4		34	25-Jun-06	-40.9		92	22-Aug-06	-40.9		150	19-Oct-06	-11.2	2	208
29-Apr-06	-27.6		35	26-Jun-06	-40.7		93	23-Aug-06	-41		151	20-Oct-06	-10.9	3	209
30-Apr-06	-28.5		36	27-Jun-06	-40.8		94	24-Aug-06	-41		152	21-Oct-06	-14.9		210
1-May-06	-29		37	28-Jun-06	-40.9		95	25-Aug-06	-41		153	22-Oct-06	-15.8		211
2-May-06	-29.5		38	29-Jun-06	-40.9		96	26-Aug-06	-41		154	23-Oct-06	-15.9		212
3-May-06	-30		39	30-Jun-06	-40.9		97	27-Aug-06	-41		155	24-Oct-06	-17.6		213
4-May-06	-30.7		40	1-Jul-06	-40.9		98	28-Aug-06	-41		156	25-Oct-06	-19		214
5-May-06	-31.4		41	2-Jul-06	-40.9		99	29-Aug-06	-41.1		157	26-Oct-06	-19.9		215
6-May-06	-31.9		42	3-Jul-06	-40.9		100	30-Aug-06	-41.1		158	27-Oct-06	-19.9		216
7-May-06	-32.8		43	4-Jul-06	-40.9		101	31-Aug-06	-41.1		159	28-Oct-06	-1.4	1	217
8-May-06	-30.9		44	5-Jul-06	-40.9		102	1-Sep-06	-41.1		160	29-Oct-06	-5.2	2	218
9-May-06	-29.8		45	6-Jul-06	-22.2		103	2-Sep-06	-41.1		161	30-Oct-06	-7.9	3	219
10-May-06	-29.6		46	7-Jul-06	-13.8		104	3-Sep-06	-41		162	31-Oct-06	-9.6	4	220
11-May-06	-29.6		47	8-Jul-06	-18.1		105	4-Sep-06	-41		163	1-Nov-06	-10.9	5	221
12-May-06	-30		48	9-Jul-06	-21.7		106	5-Sep-06	-40.9		164	2-Nov-06	-12.6		222

River Bend 1
Data Installed : March 15, 2006
Serial Number: 9DE4234
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06	-15.3		223	30-Dec-06	-8.9										
4-Nov-06	-16.6		224	31-Dec-06	-8.1										
5-Nov-06	-17.5			1-Jan-07	2.9										
6-Nov-06	-18.1			2-Jan-07	4.9										
7-Nov-06	-18.2			3-Jan-07	4.6										
8-Nov-06	2.9			4-Jan-07	1.1										
9-Nov-06	0			5-Jan-07	1.1										
10-Nov-06	-2.5			6-Jan-07	0.7										
11-Nov-06	-4.7			7-Jan-07	-2.4										
12-Nov-06	2.5			8-Jan-07	3										
13-Nov-06	0.2			9-Jan-07	-0.1										
14-Nov-06	-1.8			10-Jan-07	-3.1										
15-Nov-06	-4.8			11-Jan-07	-5.9										
16-Nov-06	3.7			12-Jan-07	-6.4										
17-Nov-06	0			13-Jan-07	-7.1										
18-Nov-06	-2.5			14-Jan-07	-8.1										
19-Nov-06	-4.9			15-Jan-07	-8.3										
20-Nov-06	-7			16-Jan-07	-9.5										
21-Nov-06	-8.9			17-Jan-07	-12										
22-Nov-06	2			18-Jan-07	-12.6										
23-Nov-06	2			19-Jan-07	-10.9										
24-Nov-06	0			20-Jan-07	-13.1										
25-Nov-06	-2.5			21-Jan-07	-14.1										
26-Nov-06	-4.7			22-Jan-07	-4.8										
27-Nov-06	-6.6			23-Jan-07	-6.5										
28-Nov-06	-7.9			24-Jan-07	-8.7										
29-Nov-06	-8.5			25-Jan-07	-9.6										
30-Nov-06	-8.9			26-Jan-07	-11.9										
1-Dec-06	-4.4			27-Jan-07	-12.1										
2-Dec-06	-8.8			28-Jan-07	-11.7										
3-Dec-06	-10.5			29-Jan-07	-14.2										
4-Dec-06	-11.4			30-Jan-07	-14.8										
5-Dec-06	-12.6			31-Jan-07	-15.3										
6-Dec-06	-13.4			1-Feb-07	-15.2										
7-Dec-06	-13.4			2-Feb-07	-12.2										
8-Dec-06	-15.2			3-Feb-07	-14.7										
9-Dec-06	-16.2			4-Feb-07	-16										
10-Dec-06	-16.5			5-Feb-07	-16.6										
11-Dec-06	-16.5			6-Feb-07	-17.5										
12-Dec-06	-17.2			7-Feb-07	-16.3										
13-Dec-06	-16.7			8-Feb-07	-17										
14-Dec-06	-15.6			9-Feb-07	-18.1										
15-Dec-06	-16.3			10-Feb-07	-18.1										
16-Dec-06	-17.7			11-Feb-07	-18										
17-Dec-06	-18.2			12-Feb-07	-19.3										
18-Dec-06	-18.4			13-Feb-07	-18.6										
19-Dec-06	-18.6			14-Feb-07	2.1										
20-Dec-06	-19.6			15-Feb-07	-1.8										
21-Dec-06	-19.7			16-Feb-07	-5.1										
22-Dec-06	-19.1			17-Feb-07	-8.1										
23-Dec-06	-9			18-Feb-07	-8.2										
24-Dec-06	-11.3			19-Feb-07	-10.6										
25-Dec-06	-11.4			20-Feb-07	-9.5										
26-Dec-06	1.2														
27-Dec-06	-2.1														
28-Dec-06	-5.1														
29-Dec-06	-7.4														

River Bend 2
Data Installed : March 15, 2006
Serial Number: 9DE3D77
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06	-2.4			13-May-06	-4.9	49	49	10-Jul-06	-3.1	6	107	6-Sep-06	-26.7		165
17-Mar-06	-2.4			14-May-06	-7.1	50	50	11-Jul-06	-7.3	7	108	7-Sep-06	-26.6		166
18-Mar-06	-2.7			15-May-06	-2.3	51	51	12-Jul-06	-9.2	8	109	8-Sep-06	-26.4		167
19-Mar-06	-3.1			16-May-06	1.2	52	52	13-Jul-06	-12	9	110	9-Sep-06	-26.1		168
20-Mar-06	-3.2			17-May-06	-1.5	53	53	14-Jul-06	-9	10	111	10-Sep-06	-26		169
21-Mar-06	1.5			18-May-06	-3.7	54	54	15-Jul-06	-9.7	11	112	11-Sep-06	-26		170
22-Mar-06	1.1			19-May-06	-5.8	55	55	16-Jul-06	-11.8	12	113	12-Sep-06	-26		171
23-Mar-06	0.2			20-May-06	-8.3	56	56	17-Jul-06	-14.3		114	13-Sep-06	-25.7		172
24-Mar-06	0.1			21-May-06	-10.9	57	57	18-Jul-06	-15.6		115	14-Sep-06	-1.9	1	173
25-Mar-06	0.8			22-May-06	-13.2		58	19-Jul-06	-16.8		116	15-Sep-06	-1.9	2	174
26-Mar-06	0.2	1	1	23-May-06	-14.6		59	20-Jul-06	-17.4		117	16-Sep-06	-6.9	3	175
27-Mar-06	-0.3	2	2	24-May-06	-15.7		60	21-Jul-06	-17.7		118	17-Sep-06	-9.4	4	176
28-Mar-06	-0.3	3	3	25-May-06	-16.3		61	22-Jul-06	-18		119	18-Sep-06	-12	5	177
29-Mar-06	-0.3	4	4	26-May-06	-16.8		62	23-Jul-06	0.2	1	120	19-Sep-06	-13.3		178
30-Mar-06	-0.9	5	5	27-May-06	-16.8		63	24-Jul-06	-7.2	2	121	20-Sep-06	-14.2		179
31-Mar-06	-1.4	6	6	28-May-06	-18		64	25-Jul-06	-9.7	3	122	21-Sep-06	-16.2		180
1-Apr-06	-0.6	7	7	29-May-06	-18.8		65	26-Jul-06	4.2	4	123	22-Sep-06	-17		181
2-Apr-06	-1.8	8	8	30-May-06	-19		66	27-Jul-06	0	5	124	23-Sep-06	-16.8		182
3-Apr-06	2	9	9	31-May-06	-19.8		67	28-Jul-06	-4.2	6	125	24-Sep-06	-16.8		183
4-Apr-06	1.2	10	10	1-Jun-06	-20.3		68	29-Jul-06	3.5	7	126	25-Sep-06	-10.7		184
5-Apr-06	0.1	11	11	2-Jun-06	-19.9		69	30-Jul-06	1.8	8	127	26-Sep-06	-12.7		185
6-Apr-06	-0.9	12	12	3-Jun-06	-19.5		70	31-Jul-06	-2.5	9	128	27-Sep-06	-14		186
7-Apr-06	-0.7	13	13	4-Jun-06	-20.3		71	1-Aug-06	-6.9	10	129	28-Sep-06	-14.8		187
8-Apr-06	-0.3	14	14	5-Jun-06	-20.9		72	2-Aug-06	-10.3	11	130	29-Sep-06	-9.2		188
9-Apr-06	1.3	15	15	6-Jun-06	-21.5		73	3-Aug-06	-13		131	30-Sep-06	-11.8		189
10-Apr-06	0	16	16	7-Jun-06	-22		74	4-Aug-06	-14.5		132	1-Oct-06	-12.5		190
11-Apr-06	-1	17	17	8-Jun-06	-22.5		75	5-Aug-06	-15.9		133	2-Oct-06	-14.1		191
12-Apr-06	-1.7	18	18	9-Jun-06	-22.7		76	6-Aug-06	-16.9		134	3-Oct-06	-15		192
13-Apr-06	-1.9	19	19	10-Jun-06	-23		77	7-Aug-06	-17.9		135	4-Oct-06	-15.5		193
14-Apr-06	-2.5	20	20	11-Jun-06	-20.5		78	8-Aug-06	-18.7		136	5-Oct-06	-15.9		194
15-Apr-06	-2.2	21	21	12-Jun-06	-18.3		79	9-Aug-06	-19.2		137	6-Oct-06	3.3	1	195
16-Apr-06	-3.5	22	22	13-Jun-06	-17.6		80	10-Aug-06	-19.8		138	7-Oct-06	3.3	2	196
17-Apr-06	-3.9	23	23	14-Jun-06	-17.4		81	11-Aug-06	-20.5		139	8-Oct-06	3.6	3	197
18-Apr-06	-2.3	24	24	15-Jun-06	-0.2	1	82	12-Aug-06	-20.7		140	9-Oct-06	3.5	4	198
19-Apr-06	-3.7	25	25	16-Jun-06	-5.3	2	83	13-Aug-06	-21.6		141	10-Oct-06	3.5	5	199
20-Apr-06	-4.6	26	26	17-Jun-06	-8.3	3	84	14-Aug-06	-22.5		142	11-Oct-06	3.5	6	200
21-Apr-06	-5.5	27	27	18-Jun-06	-11.7	4	85	15-Aug-06	-23.2		143	12-Oct-06	3.5	7	201
22-Apr-06	2.7	28	28	19-Jun-06	-13.9		86	16-Aug-06	-23.8		144	13-Oct-06	3.4	8	202
23-Apr-06	3.6	29	29	20-Jun-06	-15		87	17-Aug-06	-24.6		145	14-Oct-06	3.3	9	203
24-Apr-06	1.9	30	30	21-Jun-06	-16.4		88	18-Aug-06	-25.2		146	15-Oct-06	0.9	10	204
25-Apr-06	0.6	31	31	22-Jun-06	-17.5		89	19-Aug-06	-25.7		147	16-Oct-06	0.4	11	205
26-Apr-06	1.2	32	32	23-Jun-06	-18.4		90	20-Aug-06	-26		148	17-Oct-06	1.1	12	206
27-Apr-06	1.2	33	33	24-Jun-06	-18.5		91	21-Aug-06	-26.5		149	18-Oct-06	1.1	13	207
28-Apr-06	1.5	34	34	25-Jun-06	-18.3		92	22-Aug-06	-27		150	19-Oct-06	3.4	14	208
29-Apr-06	-0.4	35	35	26-Jun-06	-17		93	23-Aug-06	-27.3		151	20-Oct-06	3.7	15	209
30-Apr-06	-1.9	36	36	27-Jun-06	-14.8		94	24-Aug-06	-27.9		152	21-Oct-06	3.3	16	210
1-May-06	-2.9	37	37	28-Jun-06	-11.2		95	25-Aug-06	-28.5		153	22-Oct-06	3.3	17	211
2-May-06	-4.4	38	38	29-Jun-06	-14.2		96	26-Aug-06	-29		154	23-Oct-06	3.2	18	212
3-May-06	-5.6	39	39	30-Jun-06	-15		97	27-Aug-06	-29.5		155	24-Oct-06	2.2	19	213
4-May-06	-7.4	40	40	1-Jul-06	-16.7		98	28-Aug-06	-29.8		156	25-Oct-06	1.6	20	214
5-May-06	-8.3	41	41	2-Jul-06	-17.8		99	29-Aug-06	-30.1		157	26-Oct-06	1.2	21	215
6-May-06	-8.9	42	42	3-Jul-06	-18.2		100	30-Aug-06	-30.4		158	27-Oct-06	1.5	22	216
7-May-06	-11.1	43	43	4-Jul-06	-18.8		101	31-Aug-06	-30.7		159	28-Oct-06	3.1	23	217
8-May-06	2.4	44	44	5-Jul-06	0	1	102	1-Sep-06	-30.1		160	29-Oct-06	2.9	24	218
9-May-06	0.9	45	45	6-Jul-06	3.4	2	103	2-Sep-06	-29.3		161	30-Oct-06	2.9	25	219
10-May-06	-0.4	46	46	7-Jul-06	4.6	3	104	3-Sep-06	-29.4		162	31-Oct-06	2.9	26	220
11-May-06	-1.2	47	47	8-Jul-06	3.4	4	105	4-Sep-06	-29.5		163	1-Nov-06	3.3	27	221
12-May-06	-2.8	48	48	9-Jul-06	0.5	5	106	5-Sep-06	-28.2		164	2-Nov-06	3.4	28	222

River Bend 2
Data Installed : March 15, 2006
Serial Number: 9DE3D77
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06	2.9	29	223	30-Dec-06	3.6										
4-Nov-06	2.2	30	224	31-Dec-06	3.7										
5-Nov-06	2			1-Jan-07	3.9										
6-Nov-06	1.9			2-Jan-07	4.4										
7-Nov-06	2.2			3-Jan-07	4.4										
8-Nov-06	2.7			4-Jan-07	4.2										
9-Nov-06	2.9			5-Jan-07	4.1										
10-Nov-06	2.8			6-Jan-07	4.1										
11-Nov-06	2.9			7-Jan-07	4										
12-Nov-06	4.1			8-Jan-07	4.2										
13-Nov-06	3.9			9-Jan-07	3.9										
14-Nov-06	3.9			10-Jan-07	3.8										
15-Nov-06	3.8			11-Jan-07	3.7										
16-Nov-06	4.2			12-Jan-07	3.8										
17-Nov-06	4			13-Jan-07	3.8										
18-Nov-06	3.8			14-Jan-07	3.9										
19-Nov-06	3.8			15-Jan-07	4.2										
20-Nov-06	3.8			16-Jan-07	4.2										
21-Nov-06	3.8			17-Jan-07	3.8										
22-Nov-06	3.8			18-Jan-07	3.7										
23-Nov-06	3.8			19-Jan-07	3.8										
24-Nov-06	3.8			20-Jan-07	3.7										
25-Nov-06	3.7			21-Jan-07	3.7										
26-Nov-06	3.7			22-Jan-07	3.7										
27-Nov-06	3.6			23-Jan-07	3.7										
28-Nov-06	3.7			24-Jan-07	3.6										
29-Nov-06	3.8			25-Jan-07	3.6										
30-Nov-06	3.8			26-Jan-07	3.4										
1-Dec-06	4.1			27-Jan-07	3.5										
2-Dec-06	3.8			28-Jan-07	3.7										
3-Dec-06	3.8			29-Jan-07	3.5										
4-Dec-06	3.8			30-Jan-07	3.3										
5-Dec-06	3.6			31-Jan-07	3.4										
6-Dec-06	3.6			1-Feb-07	3.5										
7-Dec-06	3.6			2-Feb-07	3.6										
8-Dec-06	3.5			3-Feb-07	3.4										
9-Dec-06	2			4-Feb-07	3.4										
10-Dec-06	2.4			5-Feb-07	2.9										
11-Dec-06	2.8			6-Feb-07	2.7										
12-Dec-06	2.7			7-Feb-07	2.8										
13-Dec-06	2.9			8-Feb-07	3.3										
14-Dec-06	3.3			9-Feb-07	2.7										
15-Dec-06	3.3			10-Feb-07	1.5										
16-Dec-06	2.9			11-Feb-07	-0.7										
17-Dec-06	2.7			12-Feb-07	-1.4										
18-Dec-06	2.8			13-Feb-07	1.9										
19-Dec-06	2.9			14-Feb-07	3.5										
20-Dec-06	2.4			15-Feb-07	3.2										
21-Dec-06	2.7			16-Feb-07	2.6										
22-Dec-06	3.1			17-Feb-07	2.6										
23-Dec-06	3.8			18-Feb-07	2.7										
24-Dec-06	3.6			19-Feb-07	2.4										
25-Dec-06	3.7			20-Feb-07	2.7										
26-Dec-06	3.7														
27-Dec-06	3.7														
28-Dec-06	3.6														
29-Dec-06	3.6														

River Bend 3
Data Installed : March 15, 2006
Serial Number: 9DE7907
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06	-32.1			13-May-06	-41		49	10-Jul-06	-40.8		107	6-Sep-06	-40.1		165
17-Mar-06	-32			14-May-06	-41.1		50	11-Jul-06	-40.8		108	7-Sep-06	-40.1		166
18-Mar-06	-32.8			15-May-06	-41		51	12-Jul-06	-40.7		109	8-Sep-06	-40.1		167
19-Mar-06	-33.1			16-May-06	-41		52	13-Jul-06	-40.7		110	9-Sep-06	-40.3		168
20-Mar-06	-33.3			17-May-06	-41		53	14-Jul-06	-40.8		111	10-Sep-06	-40.2		169
21-Mar-06	-31.8			18-May-06	-41		54	15-Jul-06	-40.7		112	11-Sep-06	-40.1		170
22-Mar-06	-31.4			19-May-06	-41		55	16-Jul-06	-40.8		113	12-Sep-06	-40.1		171
23-Mar-06	-32			20-May-06	-41.1		56	17-Jul-06	-40.8		114	13-Sep-06	-40.1		172
24-Mar-06	-31.8			21-May-06	-41		57	18-Jul-06	-40.8		115	14-Sep-06	-39.7		173
25-Mar-06	-32.2			22-May-06	-41		58	19-Jul-06	-40.8		116	15-Sep-06	-39.7		174
26-Mar-06	-32.5		1	23-May-06	-41		59	20-Jul-06	-40.8		117	16-Sep-06	-39.4		175
27-Mar-06	-33.1		2	24-May-06	-41.1		60	21-Jul-06	-40.7		118	17-Sep-06	-39.4		176
28-Mar-06	-33.1		3	25-May-06	-41		61	22-Jul-06	-40.7		119	18-Sep-06	-38.8		177
29-Mar-06	-33.5		4	26-May-06	-41.1		62	23-Jul-06	-40.7		120	19-Sep-06	-38.9		178
30-Mar-06	-34		5	27-May-06	-41		63	24-Jul-06	-40.8		121	20-Sep-06	-38.6		179
31-Mar-06	-34.1		6	28-May-06	-41		64	25-Jul-06	-40.7		122	21-Sep-06	-38.6		180
1-Apr-06	-33.7		7	29-May-06	-41.1		65	26-Jul-06	-40.4		123	22-Sep-06	-38.7		181
2-Apr-06	-34.4		8	30-May-06	-40.9		66	27-Jul-06	-40.4		124	23-Sep-06	-38.9		182
3-Apr-06	-34		9	31-May-06	-41		67	28-Jul-06	-40.4		125	24-Sep-06	-39		183
4-Apr-06	-33.2		10	1-Jun-06	-40.9		68	29-Jul-06	-40.4		126	25-Sep-06	-38.7		184
5-Apr-06	-32.7		11	2-Jun-06	-41		69	30-Jul-06	-40.5		127	26-Sep-06	-38.9		185
6-Apr-06	-33.7		12	3-Jun-06	-41		70	31-Jul-06	-40.5		128	27-Sep-06	-38.8		186
7-Apr-06	-33.6		13	4-Jun-06	-41		71	1-Aug-06	-40.6		129	28-Sep-06	-39.2		187
8-Apr-06	-34.2		14	5-Jun-06	-40.9		72	2-Aug-06	-40.6		130	29-Sep-06	-39.4		188
9-Apr-06	-34.9		15	6-Jun-06	-41		73	3-Aug-06	-40.6		131	30-Sep-06	-39.2		189
10-Apr-06	-35		16	7-Jun-06	-41		74	4-Aug-06	-40.7		132	1-Oct-06	-39.4		190
11-Apr-06	-35.2		17	8-Jun-06	-41		75	5-Aug-06	-40.8		133	2-Oct-06	-39.5		191
12-Apr-06	-35.4		18	9-Jun-06	-41		76	6-Aug-06	-40.8		134	3-Oct-06	-39.4		192
13-Apr-06	-35.4		19	10-Jun-06	-41		77	7-Aug-06	-40.8		135	4-Oct-06	-39.5		193
14-Apr-06	-35.7		20	11-Jun-06	-40.9		78	8-Aug-06	-40.8		136	5-Oct-06	-39.6		194
15-Apr-06	-35.8		21	12-Jun-06	-40.9		79	9-Aug-06	-40.7		137	6-Oct-06	-40.1		195
16-Apr-06	-36.6		22	13-Jun-06	-40.9		80	10-Aug-06	-40.7		138	7-Oct-06	-39.6		196
17-Apr-06	-36.8		23	14-Jun-06	-40.9		81	11-Aug-06	-40.7		139	8-Oct-06	-39.9		197
18-Apr-06	-37.5		24	15-Jun-06	-40.9		82	12-Aug-06	-40.7		140	9-Oct-06	-39.9		198
19-Apr-06	-37.7		25	16-Jun-06	-40.9		83	13-Aug-06	-40.6		141	10-Oct-06	-40		199
20-Apr-06	-38		26	17-Jun-06	-40.9		84	14-Aug-06	-40.4		142	11-Oct-06	-40		200
21-Apr-06	-38.5		27	18-Jun-06	-40.9		85	15-Aug-06	-40.5		143	12-Oct-06	-39.9		201
22-Apr-06	-38.5		28	19-Jun-06	-40.9		86	16-Aug-06	-40.6		144	13-Oct-06	-40		202
23-Apr-06	-35.2		29	20-Jun-06	-40.8		87	17-Aug-06	-40.6		145	14-Oct-06	-40.1		203
24-Apr-06	-35.1		30	21-Jun-06	-40.9		88	18-Aug-06	-40.5		146	15-Oct-06	-40.3		204
25-Apr-06	-35.9		31	22-Jun-06	-40.9		89	19-Aug-06	-40.4		147	16-Oct-06	-40.4		205
26-Apr-06	-37		32	23-Jun-06	-40.8		90	20-Aug-06	-40.3		148	17-Oct-06	-40.4		206
27-Apr-06	-37		33	24-Jun-06	-40.9		91	21-Aug-06	-40.2		149	18-Oct-06	-40.1		207
28-Apr-06	-37.5		34	25-Jun-06	-40.9		92	22-Aug-06	-40.2		150	19-Oct-06	-40.1		208
29-Apr-06	-38.1		35	26-Jun-06	-40.9		93	23-Aug-06	-40.1		151	20-Oct-06	-40.2		209
30-Apr-06	-38.5		36	27-Jun-06	-40.8		94	24-Aug-06	-40.3		152	21-Oct-06	-40.3		210
1-May-06	-38.6		37	28-Jun-06	-40.7		95	25-Aug-06	-40.3		153	22-Oct-06	-40.4		211
2-May-06	-38.7		38	29-Jun-06	-40.8		96	26-Aug-06	-40.3		154	23-Oct-06	-40.3		212
3-May-06	-38.7		39	30-Jun-06	-40.7		97	27-Aug-06	-40.2		155	24-Oct-06	-40.4		213
4-May-06	-40.7		40	1-Jul-06	-40.9		98	28-Aug-06	-40.3		156	25-Oct-06	-40.5		214
5-May-06	-40.9		41	2-Jul-06	-40.9		99	29-Aug-06	-40.4		157	26-Oct-06	-40.6		215
6-May-06	-40.9		42	3-Jul-06	-40.8		100	30-Aug-06	-40.5		158	27-Oct-06	-40.4		216
7-May-06	-41		43	4-Jul-06	-40.9		101	31-Aug-06	-40.5		159	28-Oct-06	-40.4		217
8-May-06	-41		44	5-Jul-06	-40.4		102	1-Sep-06	-40.2		160	29-Oct-06	-40.4		218
9-May-06	-41.1		45	6-Jul-06	-38.5		103	2-Sep-06	-40		161	30-Oct-06	-40.5		219
10-May-06	-41		46	7-Jul-06	-40.6		104	3-Sep-06	-40.1		162	31-Oct-06	-40.5		220
11-May-06	-41		47	8-Jul-06	-40.7		105	4-Sep-06	-40.1		163	1-Nov-06	-40.6		221
12-May-06	-41		48	9-Jul-06	-40.8		106	5-Sep-06	-40.1		164	2-Nov-06	-40.5		222

River Bend 3
Data Installed : March 15, 2006
Serial Number: 9DE7907
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06	-40.6		223	30-Dec-06	-7.6										
4-Nov-06	-40.7		224	31-Dec-06	-7.4										
5-Nov-06	-40.7			1-Jan-07	0.2										
6-Nov-06	-40.7			2-Jan-07	3.7										
7-Nov-06	-40.7			3-Jan-07	3.8										
8-Nov-06	-34.1			4-Jan-07	1.5										
9-Nov-06	-32.8			5-Jan-07	1.5										
10-Nov-06	-34.2			6-Jan-07	1.2										
11-Nov-06	-34.7			7-Jan-07	0.3										
12-Nov-06	-16.7			8-Jan-07	2										
13-Nov-06	-16.9			9-Jan-07	0.7										
14-Nov-06	-19.5			10-Jan-07	-0.3										
15-Nov-06	-22			11-Jan-07	-1.3										
16-Nov-06	-5.5			12-Jan-07	-0.7										
17-Nov-06	1.4			13-Jan-07	-0.7										
18-Nov-06	0.2			14-Jan-07	-0.8										
19-Nov-06	-1.5			15-Jan-07	-0.3										
20-Nov-06	-3.3			16-Jan-07	-0.7										
21-Nov-06	-5.3			17-Jan-07	-2.6										
22-Nov-06	1			18-Jan-07	-2.7										
23-Nov-06	1.1			19-Jan-07	-1.1										
24-Nov-06	0			20-Jan-07	-2.8										
25-Nov-06	-1.1			21-Jan-07	-3.5										
26-Nov-06	-1.9			22-Jan-07	1										
27-Nov-06	-2.9			23-Jan-07	0.3										
28-Nov-06	-3.7			24-Jan-07	-1										
29-Nov-06	-4.5			25-Jan-07	-1.4										
30-Nov-06	-5.1			26-Jan-07	-3.3										
1-Dec-06	-2.2			27-Jan-07	-3.2										
2-Dec-06	-5.7			28-Jan-07	-2.2										
3-Dec-06	-6.8			29-Jan-07	-4.8										
4-Dec-06	-7.7			30-Jan-07	-5.6										
5-Dec-06	-9.4			31-Jan-07	-6.1										
6-Dec-06	-10.5			1-Feb-07	-6										
7-Dec-06	-10.7			2-Feb-07	-3.3										
8-Dec-06	-13.3			3-Feb-07	-6										
9-Dec-06	-15.2			4-Feb-07	-7.4										
10-Dec-06	-15.9			5-Feb-07	-8.3										
11-Dec-06	-16.2			6-Feb-07	-10.9										
12-Dec-06	-17			7-Feb-07	-8.2										
13-Dec-06	-17			8-Feb-07	-9.4										
14-Dec-06	-16.3			9-Feb-07	-11.9										
15-Dec-06	-16.9			10-Feb-07	-12.3										
16-Dec-06	-18.7			11-Feb-07	-14.4										
17-Dec-06	-19.7			12-Feb-07	-15.1										
18-Dec-06	-20			13-Feb-07	-12.7										
19-Dec-06	-20.5			14-Feb-07	0.5										
20-Dec-06	-22			15-Feb-07	-0.9										
21-Dec-06	-22			16-Feb-07	-2.2										
22-Dec-06	-21.8			17-Feb-07	-4										
23-Dec-06	-8.9			18-Feb-07	-3.7										
24-Dec-06	-12.5			19-Feb-07	-6.8										
25-Dec-06	-13.3			20-Feb-07	-4.2										
26-Dec-06	-0.7														
27-Dec-06	-3.2														
28-Dec-06	-5.4														
29-Dec-06	-6.8														

River Bend 4
Data Installed : March 15, 2006
Serial Number: 9DE4047
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06				13-May-06	-41.2		49	10-Jul-06	-40.9		107	6-Sep-06	-40.9		165
17-Mar-06	-41.4			14-May-06	-41.2		50	11-Jul-06	-40.9		108	7-Sep-06	-40.9		166
18-Mar-06	-41.4			15-May-06	-41.2		51	12-Jul-06	-40.9		109	8-Sep-06	-40.9		167
19-Mar-06	-41.4			16-May-06	-41.2		52	13-Jul-06	-40.9		110	9-Sep-06	-40.9		168
20-Mar-06	-41.4			17-May-06	-41.2		53	14-Jul-06	-40.9		111	10-Sep-06	-40.9		169
21-Mar-06	-41.3			18-May-06	-41.2		54	15-Jul-06	-40.9		112	11-Sep-06	-40.9		170
22-Mar-06	-41.2			19-May-06	-41.1		55	16-Jul-06	-41		113	12-Sep-06	-40.9		171
23-Mar-06	-41.2			20-May-06	-41.2		56	17-Jul-06	-41		114	13-Sep-06	-40.9		172
24-Mar-06	-41.3			21-May-06	-41.1		57	18-Jul-06	-41		115	14-Sep-06	-40.9		173
25-Mar-06	-41.3			22-May-06	-41.1		58	19-Jul-06	-40.9		116	15-Sep-06	-40.9		174
26-Mar-06	-41.2		1	23-May-06	-41.2		59	20-Jul-06	-40.9		117	16-Sep-06	-41		175
27-Mar-06	-41.2		2	24-May-06	-41.2		60	21-Jul-06	-40.9		118	17-Sep-06	-40.9		176
28-Mar-06	-41.3		3	25-May-06	-41.2		61	22-Jul-06	-40.9		119	18-Sep-06	-40.7		177
29-Mar-06	-41.2		4	26-May-06	-41.2		62	23-Jul-06	-40.9		120	19-Sep-06	-40.6		178
30-Mar-06	-41.2		5	27-May-06	-41.2		63	24-Jul-06	-40.9		121	20-Sep-06	-40.7		179
31-Mar-06	-41.2		6	28-May-06	-41.2		64	25-Jul-06	-41		122	21-Sep-06	-40.8		180
1-Apr-06	-41.2		7	29-May-06	-41.2		65	26-Jul-06	-40.8		123	22-Sep-06	-40.8		181
2-Apr-06	-41.2		8	30-May-06	-41.2		66	27-Jul-06	-40.9		124	23-Sep-06	-40.7		182
3-Apr-06	-41.2		9	31-May-06	-41.2		67	28-Jul-06	-40.9		125	24-Sep-06	-40.7		183
4-Apr-06	-41.2		10	1-Jun-06	-41.2		68	29-Jul-06	-40.9		126	25-Sep-06	-40.7		184
5-Apr-06	-41.2		11	2-Jun-06	-41.2		69	30-Jul-06	-40.9		127	26-Sep-06	-40.8		185
6-Apr-06	-41.2		12	3-Jun-06	-41.2		70	31-Jul-06	-40.9		128	27-Sep-06	-40.8		186
7-Apr-06	-41.2		13	4-Jun-06	-41.2		71	1-Aug-06	-40.9		129	28-Sep-06	-40.8		187
8-Apr-06	-41.2		14	5-Jun-06	-41.2		72	2-Aug-06	-40.9		130	29-Sep-06	-40.8		188
9-Apr-06	-41.2		15	6-Jun-06	-41.2		73	3-Aug-06	-40.9		131	30-Sep-06	-40.8		189
10-Apr-06	-41.3		16	7-Jun-06	-41.2		74	4-Aug-06	-41		132	1-Oct-06	-40.8		190
11-Apr-06	-41.2		17	8-Jun-06	-41.2		75	5-Aug-06	-41.1		133	2-Oct-06	-40.8		191
12-Apr-06	-41.2		18	9-Jun-06	-41.2		76	6-Aug-06	-41.1		134	3-Oct-06	-40.8		192
13-Apr-06	-41.2		19	10-Jun-06	-41.2		77	7-Aug-06	-41.1		135	4-Oct-06	-40.8		193
14-Apr-06	-41.2		20	11-Jun-06	-41.2		78	8-Aug-06	-41.1		136	5-Oct-06	-40.8		194
15-Apr-06	-41.2		21	12-Jun-06	-41.2		79	9-Aug-06	-41		137	6-Oct-06	-34.3		195
16-Apr-06	-41.2		22	13-Jun-06	-41.2		80	10-Aug-06	-41		138	7-Oct-06	-40.6		196
17-Apr-06	-41.2		23	14-Jun-06	-41.2		81	11-Aug-06	-41		139	8-Oct-06	-40.7		197
18-Apr-06	-41.2		24	15-Jun-06	-41.2		82	12-Aug-06	-41		140	9-Oct-06	-40.7		198
19-Apr-06	-41.2		25	16-Jun-06	-41.2		83	13-Aug-06	-41.1		141	10-Oct-06	-40.7		199
20-Apr-06	-41.2		26	17-Jun-06	-41.2		84	14-Aug-06	-41.1		142	11-Oct-06	-40.8		200
21-Apr-06	-41.2		27	18-Jun-06	-41.2		85	15-Aug-06	-41		143	12-Oct-06	-40.8		201
22-Apr-06	-41.2		28	19-Jun-06	-41.2		86	16-Aug-06	-41.1		144	13-Oct-06	-40.9		202
23-Apr-06	-41.2		29	20-Jun-06	-41.1		87	17-Aug-06	-41.1		145	14-Oct-06	-40.9		203
24-Apr-06	-41.2		30	21-Jun-06	-41.2		88	18-Aug-06	-41.1		146	15-Oct-06	-40.9		204
25-Apr-06	-41.2		31	22-Jun-06	-41.2		89	19-Aug-06	-41.1		147	16-Oct-06	-40.9		205
26-Apr-06	-41.2		32	23-Jun-06	-41.2		90	20-Aug-06	-41.1		148	17-Oct-06	-40.9		206
27-Apr-06	-41.2		33	24-Jun-06	-41.1		91	21-Aug-06	-41.1		149	18-Oct-06	-40.9		207
28-Apr-06	-41.2		34	25-Jun-06	-41.2		92	22-Aug-06	-41.1		150	19-Oct-06	-40.9		208
29-Apr-06	-41.2		35	26-Jun-06	-41.2		93	23-Aug-06	-41		151	20-Oct-06	-40.9		209
30-Apr-06	-41.2		36	27-Jun-06	-41.2		94	24-Aug-06	-41.1		152	21-Oct-06	-41		210
1-May-06	-41.2		37	28-Jun-06	-41.2		95	25-Aug-06	-41.1		153	22-Oct-06	-41		211
2-May-06	-41.2		38	29-Jun-06	-41.2		96	26-Aug-06	-41.1		154	23-Oct-06	-41.1		212
3-May-06	-41.2		39	30-Jun-06	-41.1		97	27-Aug-06	-41.1		155	24-Oct-06	-41.1		213
4-May-06	-41.1		40	1-Jul-06	-41.1		98	28-Aug-06	-41		156	25-Oct-06	-41.1		214
5-May-06	-41.2		41	2-Jul-06	-41.1		99	29-Aug-06	-40.9		157	26-Oct-06	-41.1		215
6-May-06	-41.1		42	3-Jul-06	-41.1		100	30-Aug-06	-40.9		158	27-Oct-06	-41.1		216
7-May-06	-41.2		43	4-Jul-06	-41.1		101	31-Aug-06	-41		159	28-Oct-06	-40.8		217
8-May-06	-41.2		44	5-Jul-06	-41.1		102	1-Sep-06	-41		160	29-Oct-06	-41.1		218
9-May-06	-41.2		45	6-Jul-06	-37.9		103	2-Sep-06	-41		161	30-Oct-06	-41.1		219
10-May-06	-41.2		46	7-Jul-06	-40.9		104	3-Sep-06	-41		162	31-Oct-06	-41.1		220
11-May-06	-41.2		47	8-Jul-06	-40.9		105	4-Sep-06	-40.9		163	1-Nov-06	-41		221
12-May-06	-41.2		48	9-Jul-06	-40.9		106	5-Sep-06	-40.9		164	2-Nov-06	-41		222

River Bend 4
Data Installed : March 15, 2006
Serial Number: 9DE4047
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06	-41.1		223	30-Dec-06	-22.5										
4-Nov-06	-41.1		224	31-Dec-06	-23										
5-Nov-06	-41.1			1-Jan-07	-6.8										
6-Nov-06	-41.2			2-Jan-07	3.7										
7-Nov-06	-41.1			3-Jan-07	3.9										
8-Nov-06	-40.8			4-Jan-07	0.3										
9-Nov-06	-41			5-Jan-07	-0.4										
10-Nov-06	-41			6-Jan-07	-0.1										
11-Nov-06	-41			7-Jan-07	-3.8										
12-Nov-06	-41			8-Jan-07	0.7										
13-Nov-06	-38.8			9-Jan-07	-2.3										
14-Nov-06	-38.8			10-Jan-07	-6.2										
15-Nov-06	-40.9			11-Jan-07	-8.3										
16-Nov-06	-31			12-Jan-07	-7.5										
17-Nov-06	-17.5			13-Jan-07	-7.7										
18-Nov-06	-6.8			14-Jan-07	-8.1										
19-Nov-06	-10.6			15-Jan-07	-7.8										
20-Nov-06	-14.6			16-Jan-07	-8.5										
21-Nov-06	-19			17-Jan-07	-11.9										
22-Nov-06	-1.4			18-Jan-07	-12.3										
23-Nov-06	-0.5			19-Jan-07	-9.8										
24-Nov-06	-3.9			20-Jan-07	-12.8										
25-Nov-06	-7.7			21-Jan-07	-14.3										
26-Nov-06	-10.4			22-Jan-07	-2.2										
27-Nov-06	-12.7			23-Jan-07	-5.7										
28-Nov-06	-15.2			24-Jan-07	-8.8										
29-Nov-06	-17.3			25-Jan-07	-10.1										
30-Nov-06	-19			26-Jan-07	-13										
1-Dec-06	-17.5			27-Jan-07	-13.3										
2-Dec-06	-20			28-Jan-07	-12.4										
3-Dec-06	-22.1			29-Jan-07	-16.4										
4-Dec-06	-23.3			30-Jan-07	-17.2										
5-Dec-06	-25			31-Jan-07	-18.4										
6-Dec-06	-26.4			1-Feb-07	-18.5										
7-Dec-06	-26.6			2-Feb-07	-16.6										
8-Dec-06	-29.5			3-Feb-07	-18.4										
9-Dec-06	-30.4			4-Feb-07	-19.9										
10-Dec-06	-31.2			5-Feb-07	-21.1										
11-Dec-06	-31.9			6-Feb-07	-22.9										
12-Dec-06	-32.9			7-Feb-07	-21.5										
13-Dec-06	-32.8			8-Feb-07	-22.9										
14-Dec-06	-32.7			9-Feb-07	-24.4										
15-Dec-06	-32.8			10-Feb-07	-25.3										
16-Dec-06	-34.8			11-Feb-07	-27										
17-Dec-06	-35.5			12-Feb-07	-27.5										
18-Dec-06	-35.9			13-Feb-07	-27.1										
19-Dec-06	-36.5			14-Feb-07	-1.3										
20-Dec-06	-37.7			15-Feb-07	-7										
21-Dec-06	-37.6			16-Feb-07	-10.5										
22-Dec-06	-37.7			17-Feb-07	-12.6										
23-Dec-06	-28.9			18-Feb-07	-14.3										
24-Dec-06	-28.9			19-Feb-07	-17.5										
25-Dec-06	-29.6			20-Feb-07	-16.8										
26-Dec-06	-9.3														
27-Dec-06	-14.8														
28-Dec-06	-18.5														
29-Dec-06	-21														

River Bend 5
Data Installed : March 15, 2006
Serial Number: 9DE763A
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06	-41.3			13-May-06	-41.1		49	10-Jul-06	-40.7		107	6-Sep-06	-40.4		165
17-Mar-06	-41.3			14-May-06	-41.1		50	11-Jul-06	-40.7		108	7-Sep-06	-40.5		166
18-Mar-06	-41.3			15-May-06	-41.1		51	12-Jul-06	-40.8		109	8-Sep-06	-40.4		167
19-Mar-06	-41.3			16-May-06	-41.1		52	13-Jul-06	-40.8		110	9-Sep-06	-40.3		168
20-Mar-06	-41.3			17-May-06	-41.1		53	14-Jul-06	-40.8		111	10-Sep-06	-40.3		169
21-Mar-06	-41.2			18-May-06	-41.1		54	15-Jul-06	-40.8		112	11-Sep-06	-40.3		170
22-Mar-06	-41.2			19-May-06	-41.1		55	16-Jul-06	-40.8		113	12-Sep-06	-40.4		171
23-Mar-06	-41.2			20-May-06	-41.1		56	17-Jul-06	-40.9		114	13-Sep-06	-40.3		172
24-Mar-06	-41.2			21-May-06	-41.1		57	18-Jul-06	-40.9		115	14-Sep-06	-40.1		173
25-Mar-06	-41.2			22-May-06	-41.1		58	19-Jul-06	-40.9		116	15-Sep-06	-40		174
26-Mar-06	-41.2		1	23-May-06	-41		59	20-Jul-06	-40.9		117	16-Sep-06	-40.1		175
27-Mar-06	-41.2		2	24-May-06	-41.1		60	21-Jul-06	-40.9		118	17-Sep-06	-40.2		176
28-Mar-06	-41.2		3	25-May-06	-41		61	22-Jul-06	-40.9		119	18-Sep-06	-40.3		177
29-Mar-06	-41.2		4	26-May-06	-41		62	23-Jul-06	-40.9		120	19-Sep-06	-40.3		178
30-Mar-06	-41.2		5	27-May-06	-41		63	24-Jul-06	-40.9		121	20-Sep-06	-40.3		179
31-Mar-06	-41.1		6	28-May-06	-41		64	25-Jul-06	-40.9		122	21-Sep-06	-40.5		180
1-Apr-06	-41.1		7	29-May-06	-41		65	26-Jul-06	-40.5		123	22-Sep-06	-40.5		181
2-Apr-06	-41.2		8	30-May-06	-41		66	27-Jul-06	-40.6		124	23-Sep-06	-40.4		182
3-Apr-06	-41.1		9	31-May-06	-41		67	28-Jul-06	-40.6		125	24-Sep-06	-40.5		183
4-Apr-06	-41.2		10	1-Jun-06	-41		68	29-Jul-06	-40.5		126	25-Sep-06	-40.3		184
5-Apr-06	-41.2		11	2-Jun-06	-41		69	30-Jul-06	-40.5		127	26-Sep-06	-40.5		185
6-Apr-06	-41.2		12	3-Jun-06	-40.9		70	31-Jul-06	-40.6		128	27-Sep-06	-40.5		186
7-Apr-06	-41.1		13	4-Jun-06	-41		71	1-Aug-06	-40.7		129	28-Sep-06	-40.5		187
8-Apr-06	-41.1		14	5-Jun-06	-40.9		72	2-Aug-06	-40.8		130	29-Sep-06	-40.5		188
9-Apr-06	-41.2		15	6-Jun-06	-41		73	3-Aug-06	-40.9		131	30-Sep-06	-40.6		189
10-Apr-06	-41.2		16	7-Jun-06	-40.9		74	4-Aug-06	-40.9		132	1-Oct-06	-40.6		190
11-Apr-06	-41.1		17	8-Jun-06	-40.9		75	5-Aug-06	-40.9		133	2-Oct-06	-40.6		191
12-Apr-06	-41.2		18	9-Jun-06	-40.9		76	6-Aug-06	-40.9		134	3-Oct-06	-40.6		192
13-Apr-06	-41.1		19	10-Jun-06	-41		77	7-Aug-06	-40.9		135	4-Oct-06	-40.6		193
14-Apr-06	-41.2		20	11-Jun-06	-40.9		78	8-Aug-06	-40.9		136	5-Oct-06	-40.5		194
15-Apr-06	-41.1		21	12-Jun-06	-40.9		79	9-Aug-06	-40.9		137	6-Oct-06	-10	1	195
16-Apr-06	-41.1		22	13-Jun-06	-40.9		80	10-Aug-06	-40.9		138	7-Oct-06	-40.5		196
17-Apr-06	-41.1		23	14-Jun-06	-40.9		81	11-Aug-06	-40.9		139	8-Oct-06	-40.5		197
18-Apr-06	-41.1		24	15-Jun-06	-40.9		82	12-Aug-06	-40.9		140	9-Oct-06	-40.6		198
19-Apr-06	-41.1		25	16-Jun-06	-40.9		83	13-Aug-06	-41		141	10-Oct-06	-40.6		199
20-Apr-06	-41.1		26	17-Jun-06	-40.8		84	14-Aug-06	-40.9		142	11-Oct-06	-40.6		200
21-Apr-06	-41.1		27	18-Jun-06	-40.8		85	15-Aug-06	-40.9		143	12-Oct-06	-40.6		201
22-Apr-06	-41.1		28	19-Jun-06	-40.8		86	16-Aug-06	-40.9		144	13-Oct-06	-40.7		202
23-Apr-06	-41.1		29	20-Jun-06	-40.8		87	17-Aug-06	-40.9		145	14-Oct-06	-40.8		203
24-Apr-06	-41.1		30	21-Jun-06	-40.9		88	18-Aug-06	-40.8		146	15-Oct-06	-40.8		204
25-Apr-06	-41.1		31	22-Jun-06	-40.9		89	19-Aug-06	-40.8		147	16-Oct-06	-40.7		205
26-Apr-06	-41.1		32	23-Jun-06	-40.8		90	20-Aug-06	-40.8		148	17-Oct-06	-40.7		206
27-Apr-06	-41.1		33	24-Jun-06	-40.8		91	21-Aug-06	-40.8		149	18-Oct-06	-40.7		207
28-Apr-06	-41.1		34	25-Jun-06	-40.8		92	22-Aug-06	-40.7		150	19-Oct-06	-40.7		208
29-Apr-06	-41.1		35	26-Jun-06	-40.7		93	23-Aug-06	-40.8		151	20-Oct-06	-40.6		209
30-Apr-06	-41.1		36	27-Jun-06	-40.7		94	24-Aug-06	-40.9		152	21-Oct-06	-40.7		210
1-May-06	-41.1		37	28-Jun-06	-40.7		95	25-Aug-06	-40.9		153	22-Oct-06	-40.7		211
2-May-06	-41.1		38	29-Jun-06	-40.7		96	26-Aug-06	-40.8		154	23-Oct-06	-40.7		212
3-May-06	-41.1		39	30-Jun-06	-40.7		97	27-Aug-06	-40.5		155	24-Oct-06	-40.8		213
4-May-06	-41.1		40	1-Jul-06	-40.7		98	28-Aug-06	-40.5		156	25-Oct-06	-40.8		214
5-May-06	-41.1		41	2-Jul-06	-40.7		99	29-Aug-06	-40.6		157	26-Oct-06	-40.8		215
6-May-06	-41.1		42	3-Jul-06	-40.8		100	30-Aug-06	-40.6		158	27-Oct-06	-40.7		216
7-May-06	-41.1		43	4-Jul-06	-40.8		101	31-Aug-06	-40.6		159	28-Oct-06	-40.7		217
8-May-06	-41.1		44	5-Jul-06	-40.8		102	1-Sep-06	-40.7		160	29-Oct-06	-40.8		218
9-May-06	-41.1		45	6-Jul-06	-4.6	1	103	2-Sep-06	-40.7		161	30-Oct-06	-40.8		219
10-May-06	-41.1		46	7-Jul-06	-40.5		104	3-Sep-06	-40.4		162	31-Oct-06	-40.8		220
11-May-06	-41.1		47	8-Jul-06	-40.5		105	4-Sep-06	-40.5		163	1-Nov-06	-40.8		221
12-May-06	-41.1		48	9-Jul-06	-40.6		106	5-Sep-06	-40.4		164	2-Nov-06	-40.8		222

River Bend 5
Data Installed : March 15, 2006
Serial Number: 9DE763A
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06	-40.8		223	30-Dec-06	-21.2										
4-Nov-06	-40.9		224	31-Dec-06	-21.8										
5-Nov-06	-40.9			1-Jan-07	-0.7										
6-Nov-06	-40.9			2-Jan-07	3.3										
7-Nov-06	-40.8			3-Jan-07	3.6										
8-Nov-06	-40.5			4-Jan-07	3.6										
9-Nov-06	-40.7			5-Jan-07	3.7										
10-Nov-06	-40.8			6-Jan-07	3.8										
11-Nov-06	-40.8			7-Jan-07	3.5										
12-Nov-06	-40.6			8-Jan-07	3.7										
13-Nov-06	-40.7			9-Jan-07	3.2										
14-Nov-06	-40.7			10-Jan-07	3.1										
15-Nov-06	-40.8			11-Jan-07	1.4										
16-Nov-06	-27.5			12-Jan-07	1.6										
17-Nov-06	-17.9			13-Jan-07	1.3										
18-Nov-06	1.4			14-Jan-07	0.8										
19-Nov-06	-0.2			15-Jan-07	0.5										
20-Nov-06	-6.8			16-Jan-07	-0.1										
21-Nov-06	-17.4			17-Jan-07	-4										
22-Nov-06	0.8			18-Jan-07	-5.9										
23-Nov-06	2.5			19-Jan-07	-4.2										
24-Nov-06	1.9			20-Jan-07	-7.2										
25-Nov-06	0.5			21-Jan-07	-9										
26-Nov-06	-1.1			22-Jan-07	1.3										
27-Nov-06	-6.6			23-Jan-07	0.4										
28-Nov-06	-11.8			24-Jan-07	-2.2										
29-Nov-06	-15.1			25-Jan-07	-4.3										
30-Nov-06	-17.5			26-Jan-07	-8										
1-Dec-06	-16.9			27-Jan-07	-8.5										
2-Dec-06	-18.9			28-Jan-07	-7.6										
3-Dec-06	-21			29-Jan-07	-12										
4-Dec-06	-22			30-Jan-07	-12.9										
5-Dec-06	-23.9			31-Jan-07	-14.4										
6-Dec-06	-25.4			1-Feb-07	-14.6										
7-Dec-06	-25.6			2-Feb-07	-13.5										
8-Dec-06	-28.3			3-Feb-07	-15.1										
9-Dec-06	-29.3			4-Feb-07	-16.4										
10-Dec-06	-30			5-Feb-07	-17.8										
11-Dec-06	-30.7			6-Feb-07	-19.5										
12-Dec-06	-31.7			7-Feb-07	-18.3										
13-Dec-06	-31.7			8-Feb-07	-20										
14-Dec-06	-31.8			9-Feb-07	-21.2										
15-Dec-06	-32			10-Feb-07	-22.1										
16-Dec-06	-33.4			11-Feb-07	-23.8										
17-Dec-06	-34.4			12-Feb-07	-24.4										
18-Dec-06	-34.8			13-Feb-07	-24.5										
19-Dec-06	-35.3			14-Feb-07	-0.3										
20-Dec-06	-36.4			15-Feb-07	0.3										
21-Dec-06	-36.5			16-Feb-07	-2.2										
22-Dec-06	-36.6			17-Feb-07	-4.4										
23-Dec-06	-30.2			18-Feb-07	-7.4										
24-Dec-06	-29.8			19-Feb-07	-13.7										
25-Dec-06	-30.2			20-Feb-07	-12.9										
26-Dec-06	-6.6														
27-Dec-06	-13.1														
28-Dec-06	-17														
29-Dec-06	-19.7														

River Bend 6
Data Installed : March 15, 2006
Serial Number: 9DE6CB4
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06	-41.6			13-May-06	-41.2		49	10-Jul-06	-41.2		107	6-Sep-06	-41.2		165
17-Mar-06	-41.5			14-May-06	-41.2		50	11-Jul-06	-41.2		108	7-Sep-06	-41.2		166
18-Mar-06	-41.5			15-May-06	-41.2		51	12-Jul-06	-41.1		109	8-Sep-06	-41.2		167
19-Mar-06	-41.5			16-May-06	-41.2		52	13-Jul-06	-41.2		110	9-Sep-06	-41.2		168
20-Mar-06	-41.5			17-May-06	-41.3		53	14-Jul-06	-41.2		111	10-Sep-06	-41.2		169
21-Mar-06	-41.5			18-May-06	-41.2		54	15-Jul-06	-41.2		112	11-Sep-06	-41.2		170
22-Mar-06	-41.4			19-May-06	-41.3		55	16-Jul-06	-41.2		113	12-Sep-06	-41.2		171
23-Mar-06	-41.4			20-May-06	-41.2		56	17-Jul-06	-41.2		114	13-Sep-06	-41.1		172
24-Mar-06	-41.4			21-May-06	-41.2		57	18-Jul-06	-41.2		115	14-Sep-06	-40.7		173
25-Mar-06	-41.4			22-May-06	-41.2		58	19-Jul-06	-41.2		116	15-Sep-06	-41		174
26-Mar-06	-41.4		1	23-May-06	-41.1		59	20-Jul-06	-41.2		117	16-Sep-06	-41		175
27-Mar-06	-41.4		2	24-May-06	-41.1		60	21-Jul-06	-41.2		118	17-Sep-06	-41.1		176
28-Mar-06	-41.5		3	25-May-06	-41.1		61	22-Jul-06	-41.2		119	18-Sep-06	-41.1		177
29-Mar-06	-41.4		4	26-May-06	-41.1		62	23-Jul-06	-41		120	19-Sep-06	-41.1		178
30-Mar-06	-41.4		5	27-May-06	-41.1		63	24-Jul-06	-41.2		121	20-Sep-06	-41.1		179
31-Mar-06	-41.4		6	28-May-06	-41.1		64	25-Jul-06	-41.2		122	21-Sep-06	-41.1		180
1-Apr-06	-41.4		7	29-May-06	-41.1		65	26-Jul-06	-41.1		123	22-Sep-06	-41		181
2-Apr-06	-41.4		8	30-May-06	-41.1		66	27-Jul-06	-41.1		124	23-Sep-06	-41		182
3-Apr-06	-41.4		9	31-May-06	-41.1		67	28-Jul-06	-41.1		125	24-Sep-06	-41		183
4-Apr-06	-41.4		10	1-Jun-06	-41.1		68	29-Jul-06	-41.2		126	25-Sep-06	-41.1		184
5-Apr-06	-41.4		11	2-Jun-06	-41.1		69	30-Jul-06	-41.2		127	26-Sep-06	-41.1		185
6-Apr-06	-41.4		12	3-Jun-06	-41.1		70	31-Jul-06	-41.2		128	27-Sep-06	-41.1		186
7-Apr-06	-41.4		13	4-Jun-06	-41.2		71	1-Aug-06	-41.2		129	28-Sep-06	-41		187
8-Apr-06	-41.4		14	5-Jun-06	-41.2		72	2-Aug-06	-41.2		130	29-Sep-06	-41		188
9-Apr-06	-41.4		15	6-Jun-06	-41.2		73	3-Aug-06	-41.2		131	30-Sep-06	-41.1		189
10-Apr-06	-41.4		16	7-Jun-06	-41.2		74	4-Aug-06	-41.2		132	1-Oct-06	-41.1		190
11-Apr-06	-41.4		17	8-Jun-06	-41.2		75	5-Aug-06	-41.3		133	2-Oct-06	-41		191
12-Apr-06	-41.4		18	9-Jun-06	-41.2		76	6-Aug-06	-41.2		134	3-Oct-06	-41		192
13-Apr-06	-41.4		19	10-Jun-06	-41.2		77	7-Aug-06	-41.3		135	4-Oct-06	-40.9		193
14-Apr-06	-41.4		20	11-Jun-06	-41.2		78	8-Aug-06	-41.2		136	5-Oct-06	-40.9		194
15-Apr-06	-41.4		21	12-Jun-06	-41.2		79	9-Aug-06	-41.2		137	6-Oct-06	-36.2		195
16-Apr-06	-41.4		22	13-Jun-06	-41.2		80	10-Aug-06	-41.2		138	7-Oct-06	-40.9		196
17-Apr-06	-41.4		23	14-Jun-06	-41.2		81	11-Aug-06	-41.2		139	8-Oct-06	-40.9		197
18-Apr-06	-41.4		24	15-Jun-06	-41.2		82	12-Aug-06	-41.2		140	9-Oct-06	-44.6		198
19-Apr-06	-41.4		25	16-Jun-06	-41.2		83	13-Aug-06	-41.3		141	10-Oct-06	-39.1		199
20-Apr-06	-41.4		26	17-Jun-06	-41.2		84	14-Aug-06	-41.3		142	11-Oct-06	-40.8		200
21-Apr-06	-41.4		27	18-Jun-06	-41.2		85	15-Aug-06	-41.2		143	12-Oct-06	-40.9		201
22-Apr-06	-41.4		28	19-Jun-06	-41.2		86	16-Aug-06	-41.2		144	13-Oct-06	-40.9		202
23-Apr-06	-41.4		29	20-Jun-06	-41.2		87	17-Aug-06	-41.3		145	14-Oct-06	-40.9		203
24-Apr-06	-41.4		30	21-Jun-06	-41.2		88	18-Aug-06	-41.3		146	15-Oct-06	-41		204
25-Apr-06	-41.4		31	22-Jun-06	-41.2		89	19-Aug-06	-41.2		147	16-Oct-06	-41		205
26-Apr-06	-41.4		32	23-Jun-06	-41.2		90	20-Aug-06	-41.2		148	17-Oct-06	-40.9		206
27-Apr-06	-41.4		33	24-Jun-06	-41.2		91	21-Aug-06	-41.3		149	18-Oct-06	-41		207
28-Apr-06	-41.4		34	25-Jun-06	-41.2		92	22-Aug-06	-41.2		150	19-Oct-06	-40.9		208
29-Apr-06	-41.4		35	26-Jun-06	-41.2		93	23-Aug-06	-41.2		151	20-Oct-06	-41		209
30-Apr-06	-41.4		36	27-Jun-06	-41.2		94	24-Aug-06	-41.2		152	21-Oct-06	-41		210
1-May-06	-41.3		37	28-Jun-06	-41.2		95	25-Aug-06	-41.3		153	22-Oct-06	-41		211
2-May-06	-41.3		38	29-Jun-06	-41.2		96	26-Aug-06	-41.3		154	23-Oct-06	-41.1		212
3-May-06	-41.3		39	30-Jun-06	-41.2		97	27-Aug-06	-41.2		155	24-Oct-06	-44.6		213
4-May-06	-41.3		40	1-Jul-06	-41.2		98	28-Aug-06	-41.3		156	25-Oct-06	-13.3		214
5-May-06	-41.3		41	2-Jul-06	-41.2		99	29-Aug-06	-41.2		157	26-Oct-06	-40.3		215
6-May-06	-41.3		42	3-Jul-06	-41.2		100	30-Aug-06	-41.2		158	27-Oct-06			216
7-May-06	-41.2		43	4-Jul-06	-41.2		101	31-Aug-06	-41.2		159	28-Oct-06			217
8-May-06	-41.2		44	5-Jul-06	-41.1		102	1-Sep-06	-41.2		160	29-Oct-06			218
9-May-06	-41.2		45	6-Jul-06	-27.9		103	2-Sep-06	-41.2		161	30-Oct-06			219
10-May-06	-41.2		46	7-Jul-06	-41.1		104	3-Sep-06	-41.2		162	31-Oct-06	-41		220
11-May-06	-41.2		47	8-Jul-06	-41.2		105	4-Sep-06	-41.2		163	1-Nov-06	-41		221
12-May-06	-41.2		48	9-Jul-06	-41.2		106	5-Sep-06	-41.2		164	2-Nov-06	-41		222

River Bend 6
Data Installed : March 15, 2006
Serial Number: 9DE6CB4
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06	-41.1		223	30-Dec-06	-33.1										
4-Nov-06	-41.1		224	31-Dec-06	-34										
5-Nov-06	-41.1			1-Jan-07	-19.4										
6-Nov-06	-41.1			2-Jan-07	2.5										
7-Nov-06	-41			3-Jan-07	3.4										
8-Nov-06	-38.7			4-Jan-07	2.5										
9-Nov-06	-40.9			5-Jan-07	2.9										
10-Nov-06	-40.9			6-Jan-07	2.6										
11-Nov-06	-40.9			7-Jan-07	1.4										
12-Nov-06	-40.9			8-Jan-07	3										
13-Nov-06	-40.9			9-Jan-07	2.1										
14-Nov-06	-40.9			10-Jan-07	0.3										
15-Nov-06	-40.9			11-Jan-07	-1.3										
16-Nov-06	-40.8			12-Jan-07	0										
17-Nov-06	-36.8			13-Jan-07	-0.5										
18-Nov-06	-33.7			14-Jan-07	-1.4										
19-Nov-06	-31.8			15-Jan-07	-1.5										
20-Nov-06	-34.2			16-Jan-07	-2.8										
21-Nov-06	-37.3			17-Jan-07	-7										
22-Nov-06	-30.1			18-Jan-07	-8.1										
23-Nov-06	-8.3			19-Jan-07	5.9										
24-Nov-06	-11.2			20-Jan-07	-11.1										
25-Nov-06	-16.2			21-Jan-07	-13.7										
26-Nov-06	-19.9			22-Jan-07	-2.2										
27-Nov-06	-23.2			23-Jan-07	-4.6										
28-Nov-06	-26.4			24-Jan-07	-7.1										
29-Nov-06	-29.1			25-Jan-07	-8.8										
30-Nov-06	-31.1			26-Jan-07	-12.2										
1-Dec-06	-31.5			27-Jan-07	-13										
2-Dec-06	-33.6			28-Jan-07	-13										
3-Dec-06	-35			29-Jan-07	-17.3										
4-Dec-06	-35.7			30-Jan-07	-18.1										
5-Dec-06	-37			31-Jan-07	-20.2										
6-Dec-06	-38.3			1-Feb-07	-20.8										
7-Dec-06	-38.5			2-Feb-07	225.8										
8-Dec-06	-40.4			3-Feb-07	-22.2										
9-Dec-06	-41.1			4-Feb-07	-23.4										
10-Dec-06	-41.1			5-Feb-07	-24.6										
11-Dec-06	-41.1			6-Feb-07	-26.2										
12-Dec-06	-41.1			7-Feb-07	-22.5										
13-Dec-06	-41.1			8-Feb-07	-27.5										
14-Dec-06	-41.1			9-Feb-07	-28.4										
15-Dec-06	-41.1			10-Feb-07	-29.5										
16-Dec-06	-41.1			11-Feb-07	-31.1										
17-Dec-06	-41.1			12-Feb-07	-31.8										
18-Dec-06	-41.1			13-Feb-07	-32.2										
19-Dec-06	-41.1			14-Feb-07	-6.6										
20-Dec-06	-41.1			15-Feb-07	-10.3										
21-Dec-06	-41.1			16-Feb-07	-12.4										
22-Dec-06	-41			17-Feb-07	-14.4										
23-Dec-06	-41			18-Feb-07	-16.9										
24-Dec-06	-41			19-Feb-07	-20.9										
25-Dec-06	-40.9			20-Feb-07	-20.9										
26-Dec-06	-31.2														
27-Dec-06	-28.1														
28-Dec-06	-29.9														
29-Dec-06	-31.8														

River Bend 7
Data Installed : March 15, 2006
Serial Number: 9BEA5C5
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06	-41.5			13-May-06	-41.1		49	10-Jul-06	-41.2		107	6-Sep-06	-41.1		165
17-Mar-06	-41.4			14-May-06	-41.2		50	11-Jul-06	-41.2		108	7-Sep-06	-41.1		166
18-Mar-06	-41.5			15-May-06	-41.2		51	12-Jul-06	-41.2		109	8-Sep-06	-41.1		167
19-Mar-06	-41.5			16-May-06	-41.2		52	13-Jul-06	-41.2		110	9-Sep-06	-41.1		168
20-Mar-06	-41.4			17-May-06	-41.2		53	14-Jul-06	-41.2		111	10-Sep-06	-41.1		169
21-Mar-06	-41.4			18-May-06	-41.2		54	15-Jul-06	-41.2		112	11-Sep-06	-41		170
22-Mar-06	-41.4			19-May-06	-41.2		55	16-Jul-06	-41.2		113	12-Sep-06	-41.1		171
23-Mar-06	-41.4			20-May-06	-41.2		56	17-Jul-06	-41.3		114	13-Sep-06	-40.9		172
24-Mar-06	-41.4			21-May-06	-41.2		57	18-Jul-06	-41.2		115	14-Sep-06	-40.7		173
25-Mar-06	-41.4			22-May-06	-41.1		58	19-Jul-06	-41.2		116	15-Sep-06	-40.8		174
26-Mar-06	-41.4		1	23-May-06	-41.2		59	20-Jul-06	-41.2		117	16-Sep-06	-40.9		175
27-Mar-06	-41.4		2	24-May-06	-41.2		60	21-Jul-06	-41.2		118	17-Sep-06	-40.9		176
28-Mar-06	-41.4		3	25-May-06	-41.2		61	22-Jul-06	-41.2		119	18-Sep-06	-40.9		177
29-Mar-06	-41.4		4	26-May-06	-41.1		62	23-Jul-06	-41.2		120	19-Sep-06	-40.8		178
30-Mar-06	-41.4		5	27-May-06	-41.1		63	24-Jul-06	-41.2		121	20-Sep-06	-40.9		179
31-Mar-06	-41.3		6	28-May-06	-41.2		64	25-Jul-06	-41.2		122	21-Sep-06	-40.8		180
1-Apr-06	-41.3		7	29-May-06	-41.1		65	26-Jul-06	-40.9		123	22-Sep-06	-40.7		181
2-Apr-06	-41.3		8	30-May-06	-41.2		66	27-Jul-06	-41.1		124	23-Sep-06	-40.7		182
3-Apr-06	-41.3		9	31-May-06	-41.2		67	28-Jul-06	-41.1		125	24-Sep-06	-40.7		183
4-Apr-06	-41.3		10	1-Jun-06	-41.2		68	29-Jul-06	-41.1		126	25-Sep-06	-40.7		184
5-Apr-06	-41.3		11	2-Jun-06	-41.2		69	30-Jul-06	-41.1		127	26-Sep-06	-40.9		185
6-Apr-06	-41.3		12	3-Jun-06	-41.2		70	31-Jul-06	-41.1		128	27-Sep-06	-40.8		186
7-Apr-06	-41.3		13	4-Jun-06	-41.2		71	1-Aug-06	-41.1		129	28-Sep-06	-40.9		187
8-Apr-06	-41.2		14	5-Jun-06	-41.2		72	2-Aug-06	-41.1		130	29-Sep-06	-40.9		188
9-Apr-06	-41.3		15	6-Jun-06	-41.2		73	3-Aug-06	-41.1		131	30-Sep-06	-40.7		189
10-Apr-06	-41.3		16	7-Jun-06	-41.2		74	4-Aug-06	-41.2		132	1-Oct-06	-40.6		190
11-Apr-06	-41.2		17	8-Jun-06	-41.2		75	5-Aug-06	-41.2		133	2-Oct-06	-40.7		191
12-Apr-06	-41.2		18	9-Jun-06	-41.2		76	6-Aug-06	-41.2		134	3-Oct-06	-40.7		192
13-Apr-06	-41.2		19	10-Jun-06	-41.2		77	7-Aug-06	-41.2		135	4-Oct-06	-40.8		193
14-Apr-06	-41.2		20	11-Jun-06	-41.2		78	8-Aug-06	-41.2		136	5-Oct-06	-40.7		194
15-Apr-06	-41.2		21	12-Jun-06	-41.2		79	9-Aug-06	-41.2		137	6-Oct-06	-34.4		195
16-Apr-06	-41.2		22	13-Jun-06	-41.2		80	10-Aug-06	-41.2		138	7-Oct-06	-39.4		196
17-Apr-06	-41.2		23	14-Jun-06	-41.2		81	11-Aug-06	-41.2		139	8-Oct-06	-40.7		197
18-Apr-06	-41.2		24	15-Jun-06	-41.3		82	12-Aug-06	-41.2		140	9-Oct-06	-40.8		198
19-Apr-06	-41.2		25	16-Jun-06	-41.3		83	13-Aug-06	-41.2		141	10-Oct-06	-40.9		199
20-Apr-06	-41.2		26	17-Jun-06	-41.3		84	14-Aug-06	-41.2		142	11-Oct-06	-40.8		200
21-Apr-06	-41.2		27	18-Jun-06	-41.2		85	15-Aug-06	-41.2		143	12-Oct-06	-40.9		201
22-Apr-06	-41.2		28	19-Jun-06	-41.2		86	16-Aug-06	-41.2		144	13-Oct-06	-40.8		202
23-Apr-06	-41.2		29	20-Jun-06	-41.2		87	17-Aug-06	-41.2		145	14-Oct-06	-40.8		203
24-Apr-06	-41.2		30	21-Jun-06	-41.3		88	18-Aug-06	-41.2		146	15-Oct-06	-40.9		204
25-Apr-06	-41.2		31	22-Jun-06	-41.2		89	19-Aug-06	-41.2		147	16-Oct-06	-40.8		205
26-Apr-06	-41.2		32	23-Jun-06	-41.2		90	20-Aug-06	-41.2		148	17-Oct-06	-40.9		206
27-Apr-06	-41.2		33	24-Jun-06	-41.2		91	21-Aug-06	-41.2		149	18-Oct-06	-40.8		207
28-Apr-06	-41.2		34	25-Jun-06	-41.3		92	22-Aug-06	-41.2		150	19-Oct-06	-40.7		208
29-Apr-06	-41.2		35	26-Jun-06	-41.2		93	23-Aug-06	-41.1		151	20-Oct-06	-40.8		209
30-Apr-06	-41.2		36	27-Jun-06	-41.2		94	24-Aug-06	-41.2		152	21-Oct-06	-40.9		210
1-May-06	-41.2		37	28-Jun-06	-41.3		95	25-Aug-06	-41.2		153	22-Oct-06	-40.9		211
2-May-06	-41.2		38	29-Jun-06	-41.3		96	26-Aug-06	-41.2		154	23-Oct-06	-40.8		212
3-May-06	-41.2		39	30-Jun-06	-41.3		97	27-Aug-06	-41.2		155	24-Oct-06	-40.9		213
4-May-06	-41.2		40	1-Jul-06	-41.3		98	28-Aug-06	-41.2		156	25-Oct-06	-40.9		214
5-May-06	-41.1		41	2-Jul-06	-41.2		99	29-Aug-06	-41.2		157	26-Oct-06	-41		215
6-May-06	-41.2		42	3-Jul-06	-41.2		100	30-Aug-06	-41.2		158	27-Oct-06	-40.9		216
7-May-06	-41.2		43	4-Jul-06	-41.2		101	31-Aug-06	-41.2		159	28-Oct-06	-40.7		217
8-May-06	-41.1		44	5-Jul-06	-41.2		102	1-Sep-06	-41.2		160	29-Oct-06	-41		218
9-May-06	-41.2		45	6-Jul-06	-40.9		103	2-Sep-06	-41.2		161	30-Oct-06	-40.9		219
10-May-06	-41.2		46	7-Jul-06	-41.1		104	3-Sep-06	-41.2		162	31-Oct-06	-41		220
11-May-06	-41.1		47	8-Jul-06	-41.1		105	4-Sep-06	-41.2		163	1-Nov-06	-41		221
12-May-06	-41.2		48	9-Jul-06	-41.2		106	5-Sep-06	-41.1		164	2-Nov-06	-41		222

River Bend 7
Data Installed : March 15, 2006
Serial Number: 9BEA5C5
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06	-41		223	30-Dec-06	-41.1										
4-Nov-06	-41		224	31-Dec-06	-41.1										
5-Nov-06	-41.1			1-Jan-07	-41.1										
6-Nov-06	-41.1			2-Jan-07	0.7										
7-Nov-06	-41.1			3-Jan-07	4										
8-Nov-06	-37.3			4-Jan-07	3										
9-Nov-06	-41.1			5-Jan-07	2.5										
10-Nov-06	-41.1			6-Jan-07	2										
11-Nov-06	-41.1			7-Jan-07	-0.1										
12-Nov-06	-37.9			8-Jan-07	3										
13-Nov-06	-41.1			9-Jan-07	1.3										
14-Nov-06	-41			10-Jan-07	-1.6										
15-Nov-06	-41.1			11-Jan-07	-4.9										
16-Nov-06	-38.8			12-Jan-07	-5.5										
17-Nov-06	-41.1			13-Jan-07	-6.3										
18-Nov-06	-41.1			14-Jan-07	-7.7										
19-Nov-06	-41			15-Jan-07	-8.3										
20-Nov-06	-41			16-Jan-07	-10.3										
21-Nov-06	-41.1			17-Jan-07	-15.6										
22-Nov-06	-39			18-Jan-07	-16.2										
23-Nov-06	-33.1			19-Jan-07	-14.4										
24-Nov-06	-37.7			20-Jan-07	-18.5										
25-Nov-06	-41.1			21-Jan-07	-21.2										
26-Nov-06	-41.1			22-Jan-07	-10.8										
27-Nov-06	-41.1			23-Jan-07	-13.7										
28-Nov-06	-41.1			24-Jan-07	-17.5										
29-Nov-06	-41.1			25-Jan-07	-19.3										
30-Nov-06	-41.1			26-Jan-07	-22.7										
1-Dec-06	-41			27-Jan-07	-23.4										
2-Dec-06	-41			28-Jan-07	-24										
3-Dec-06	-41.1			29-Jan-07	-28.3										
4-Dec-06	-41.1			30-Jan-07	-29.3										
5-Dec-06	-41.1			31-Jan-07	-31.5										
6-Dec-06	-41.1			1-Feb-07	-32.2										
7-Dec-06	-41.2			2-Feb-07	-32.5										
8-Dec-06	-41.2			3-Feb-07	-35.3										
9-Dec-06	-41.2			4-Feb-07	-36.7										
10-Dec-06	-41.2			5-Feb-07	-38.1										
11-Dec-06	-41.2			6-Feb-07	-38.7										
12-Dec-06	-41.2			7-Feb-07	-38.8										
13-Dec-06	-41.1			8-Feb-07	-39.2										
14-Dec-06	-41.2			9-Feb-07	-40.9										
15-Dec-06	-41.2			10-Feb-07	-41										
16-Dec-06	-41.2			11-Feb-07	-41										
17-Dec-06	-41.2			12-Feb-07	-41										
18-Dec-06	-41.2			13-Feb-07	-40.9										
19-Dec-06	-41.2			14-Feb-07	-26.8										
20-Dec-06	-41.2			15-Feb-07	-27										
21-Dec-06	-41.2			16-Feb-07	-28										
22-Dec-06	-41.1			17-Feb-07	-29.4										
23-Dec-06	-41.1			18-Feb-07	-31.4										
24-Dec-06	-41.2			19-Feb-07	-35.1										
25-Dec-06	-41.1			20-Feb-07	-35.5										
26-Dec-06	-41.1														
27-Dec-06	-41.2														
28-Dec-06	-41.2														
29-Dec-06	-41.2														

River Bend 8
Data Installed : March 16, 2006
Serial Number: 9BEC0AB
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06				13-May-06	-41		49	10-Jul-06			107	6-Sep-06			165
17-Mar-06	-39.1			14-May-06	-41.1		50	11-Jul-06			108	7-Sep-06			166
18-Mar-06	-39.2			15-May-06	-41.1		51	12-Jul-06			109	8-Sep-06			167
19-Mar-06	-39.4			16-May-06	-41		52	13-Jul-06			110	9-Sep-06			168
20-Mar-06	-39.4			17-May-06	-41.1		53	14-Jul-06			111	10-Sep-06			169
21-Mar-06	-38.8			18-May-06	-41		54	15-Jul-06			112	11-Sep-06			170
22-Mar-06	-39.1			19-May-06	-41		55	16-Jul-06			113	12-Sep-06			171
23-Mar-06	-39.2			20-May-06	-41.1		56	17-Jul-06			114	13-Sep-06			172
24-Mar-06	-39.2			21-May-06	-41		57	18-Jul-06			115	14-Sep-06			173
25-Mar-06	-39.1			22-May-06	-41		58	19-Jul-06			116	15-Sep-06			174
26-Mar-06	-39.3		1	23-May-06	-41		59	20-Jul-06			117	16-Sep-06			175
27-Mar-06	-39.3		2	24-May-06			60	21-Jul-06			118	17-Sep-06			176
28-Mar-06	-39.3		3	25-May-06			61	22-Jul-06			119	18-Sep-06			177
29-Mar-06	-39.2		4	26-May-06			62	23-Jul-06			120	19-Sep-06			178
30-Mar-06	-39.3		5	27-May-06			63	24-Jul-06			121	20-Sep-06			179
31-Mar-06	-39.3		6	28-May-06			64	25-Jul-06			122	21-Sep-06			180
1-Apr-06	-39.2		7	29-May-06			65	26-Jul-06			123	22-Sep-06			181
2-Apr-06	-39.3		8	30-May-06			66	27-Jul-06			124	23-Sep-06			182
3-Apr-06	-39		9	31-May-06			67	28-Jul-06			125	24-Sep-06			183
4-Apr-06	-39.1		10	1-Jun-06			68	29-Jul-06			126	25-Sep-06			184
5-Apr-06	-39.1		11	2-Jun-06			69	30-Jul-06			127	26-Sep-06			185
6-Apr-06	-39.3		12	3-Jun-06			70	31-Jul-06			128	27-Sep-06			186
7-Apr-06	-39.2		13	4-Jun-06			71	1-Aug-06			129	28-Sep-06			187
8-Apr-06	-39.2		14	5-Jun-06			72	2-Aug-06			130	29-Sep-06			188
9-Apr-06	-39.2		15	6-Jun-06			73	3-Aug-06			131	30-Sep-06			189
10-Apr-06	-39.2		16	7-Jun-06			74	4-Aug-06			132	1-Oct-06			190
11-Apr-06	-39.2		17	8-Jun-06			75	5-Aug-06			133	2-Oct-06			191
12-Apr-06	-39.2		18	9-Jun-06			76	6-Aug-06			134	3-Oct-06			192
13-Apr-06	-39.2		19	10-Jun-06			77	7-Aug-06			135	4-Oct-06			193
14-Apr-06	-39.2		20	11-Jun-06			78	8-Aug-06			136	5-Oct-06			194
15-Apr-06	-39.2		21	12-Jun-06			79	9-Aug-06			137	6-Oct-06			195
16-Apr-06	-39.2		22	13-Jun-06			80	10-Aug-06			138	7-Oct-06			196
17-Apr-06	-41.1		23	14-Jun-06			81	11-Aug-06			139	8-Oct-06			197
18-Apr-06	-41.1		24	15-Jun-06			82	12-Aug-06			140	9-Oct-06			198
19-Apr-06	-41.1		25	16-Jun-06			83	13-Aug-06			141	10-Oct-06			199
20-Apr-06	-41.1		26	17-Jun-06			84	14-Aug-06			142	11-Oct-06			200
21-Apr-06	-41.1		27	18-Jun-06			85	15-Aug-06			143	12-Oct-06			201
22-Apr-06	-41.1		28	19-Jun-06			86	16-Aug-06			144	13-Oct-06			202
23-Apr-06	-39.2		29	20-Jun-06			87	17-Aug-06			145	14-Oct-06			203
24-Apr-06	-39.2		30	21-Jun-06			88	18-Aug-06			146	15-Oct-06			204
25-Apr-06	-39.2		31	22-Jun-06			89	19-Aug-06			147	16-Oct-06			205
26-Apr-06	-39.2		32	23-Jun-06			90	20-Aug-06			148	17-Oct-06			206
27-Apr-06	-39.2		33	24-Jun-06			91	21-Aug-06			149	18-Oct-06			207
28-Apr-06	-39.1		34	25-Jun-06			92	22-Aug-06			150	19-Oct-06			208
29-Apr-06	-41.1		35	26-Jun-06			93	23-Aug-06			151	20-Oct-06			209
30-Apr-06	-41.1		36	27-Jun-06			94	24-Aug-06			152	21-Oct-06			210
1-May-06	-41.1		37	28-Jun-06			95	25-Aug-06			153	22-Oct-06			211
2-May-06	-41.1		38	29-Jun-06			96	26-Aug-06			154	23-Oct-06			212
3-May-06	-41.1		39	30-Jun-06			97	27-Aug-06			155	24-Oct-06			213
4-May-06	-41		40	1-Jul-06			98	28-Aug-06			156	25-Oct-06			214
5-May-06	-41.1		41	2-Jul-06			99	29-Aug-06			157	26-Oct-06			215
6-May-06	-41		42	3-Jul-06			100	30-Aug-06			158	27-Oct-06			216
7-May-06	-41.1		43	4-Jul-06			101	31-Aug-06			159	28-Oct-06			217
8-May-06	-41.1		44	5-Jul-06			102	1-Sep-06			160	29-Oct-06			218
9-May-06	-41.1		45	6-Jul-06			103	2-Sep-06			161	30-Oct-06			219
10-May-06	-41.1		46	7-Jul-06			104	3-Sep-06			162	31-Oct-06			220
11-May-06	-41		47	8-Jul-06			105	4-Sep-06			163	1-Nov-06			221
12-May-06	-41		48	9-Jul-06			106	5-Sep-06			164	2-Nov-06			222

River Bend 8
Data Installed : March 16, 2006
Serial Number: 9BEC0AB
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06			223	30-Dec-06											
4-Nov-06			224	31-Dec-06											
5-Nov-06				1-Jan-07											
6-Nov-06				2-Jan-07											
7-Nov-06				3-Jan-07											
8-Nov-06				4-Jan-07											
9-Nov-06				5-Jan-07											
10-Nov-06				6-Jan-07											
11-Nov-06				7-Jan-07											
12-Nov-06				8-Jan-07											
13-Nov-06				9-Jan-07											
14-Nov-06				10-Jan-07											
15-Nov-06				11-Jan-07											
16-Nov-06				12-Jan-07											
17-Nov-06				13-Jan-07											
18-Nov-06				14-Jan-07											
19-Nov-06				15-Jan-07											
20-Nov-06				16-Jan-07											
21-Nov-06				17-Jan-07											
22-Nov-06				18-Jan-07											
23-Nov-06				19-Jan-07											
24-Nov-06				20-Jan-07											
25-Nov-06				21-Jan-07											
26-Nov-06				22-Jan-07											
27-Nov-06				23-Jan-07											
28-Nov-06				24-Jan-07											
29-Nov-06				25-Jan-07											
30-Nov-06				26-Jan-07											
1-Dec-06				27-Jan-07											
2-Dec-06				28-Jan-07											
3-Dec-06				29-Jan-07											
4-Dec-06				30-Jan-07											
5-Dec-06				31-Jan-07											
6-Dec-06				1-Feb-07											
7-Dec-06				2-Feb-07											
8-Dec-06				3-Feb-07											
9-Dec-06				4-Feb-07											
10-Dec-06				5-Feb-07											
11-Dec-06				6-Feb-07											
12-Dec-06				7-Feb-07											
13-Dec-06				8-Feb-07											
14-Dec-06				9-Feb-07											
15-Dec-06				10-Feb-07											
16-Dec-06				11-Feb-07											
17-Dec-06				12-Feb-07											
18-Dec-06				13-Feb-07											
19-Dec-06				14-Feb-07											
20-Dec-06				15-Feb-07											
21-Dec-06				16-Feb-07											
22-Dec-06				17-Feb-07											
23-Dec-06				18-Feb-07											
24-Dec-06				19-Feb-07											
25-Dec-06				20-Feb-07											
26-Dec-06															
27-Dec-06															
28-Dec-06															
29-Dec-06															

River Bend 9
Data Installed : March 16, 2006
Serial Number: 9DE5D68
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06				13-May-06	-34		49	10-Jul-06	-31.4		107	6-Sep-06	-38.1		165
17-Mar-06	-26.2			14-May-06	-35		50	11-Jul-06	-32.7		108	7-Sep-06	-38.1		166
18-Mar-06	-26.6			15-May-06	-34.6		51	12-Jul-06	-34.2		109	8-Sep-06	-38.1		167
19-Mar-06	-26.7			16-May-06	-33.4		52	13-Jul-06	-35.3		110	9-Sep-06	-38.1		168
20-Mar-06	-26.8			17-May-06	-32.9		53	14-Jul-06	-36.1		111	10-Sep-06	-38.1		169
21-Mar-06	-25.3			18-May-06	-33.9		54	15-Jul-06	-36.6		112	11-Sep-06	-38.2		170
22-Mar-06	-25.7			19-May-06	-35		55	16-Jul-06	-37.2		113	12-Sep-06	-38.2		171
23-Mar-06	-25.9			20-May-06	-35.7		56	17-Jul-06	-37.6		114	13-Sep-06	-38.1		172
24-Mar-06	-25.8			21-May-06	-36.4		57	18-Jul-06	-37.7		115	14-Sep-06	-38.1		173
25-Mar-06	-25.8			22-May-06	-37.2		58	19-Jul-06	-37.7		116	15-Sep-06	-38.1		174
26-Mar-06	-26		1	23-May-06	-37.2		59	20-Jul-06	-37.7		117	16-Sep-06	-38.2		175
27-Mar-06	-26.5		2	24-May-06	-37.4		60	21-Jul-06	-37.7		118	17-Sep-06	-38.1		176
28-Mar-06	-26.5		3	25-May-06	-37.5		61	22-Jul-06	-37.7		119	18-Sep-06	-38.1		177
29-Mar-06	-26.6		4	26-May-06	-37.5		62	23-Jul-06	-37.7		120	19-Sep-06	-38.1		178
30-Mar-06	-26.8		5	27-May-06	-37.5		63	24-Jul-06	-37.8		121	20-Sep-06	-38.1		179
31-Mar-06	-26.8		6	28-May-06	-37.6		64	25-Jul-06	-37.8		122	21-Sep-06	-38.1		180
1-Apr-06	-26.5		7	29-May-06	-37.7		65	26-Jul-06	-34.5		123	22-Sep-06	-38		181
2-Apr-06	-26.9		8	30-May-06	-37.7		66	27-Jul-06	-32.3		124	23-Sep-06	-37.9		182
3-Apr-06	-25.9		9	31-May-06	-37.8		67	28-Jul-06	-32.3		125	24-Sep-06	-38		183
4-Apr-06	-26.1		10	1-Jun-06	-37.8		68	29-Jul-06	-31.6		126	25-Sep-06	-38		184
5-Apr-06	-26.1		11	2-Jun-06	-37.8		69	30-Jul-06	-30.6		127	26-Sep-06	-38.1		185
6-Apr-06	-26.6		12	3-Jun-06	-37.8		70	31-Jul-06	-30.9		128	27-Sep-06	-38.1		186
7-Apr-06	-26.6		13	4-Jun-06	-37.8		71	1-Aug-06	-32.8		129	28-Sep-06	-38		187
8-Apr-06	-26.8		14	5-Jun-06	-37.8		72	2-Aug-06	-34.3		130	29-Sep-06	-37.7		188
9-Apr-06	-26.5		15	6-Jun-06	-37.9		73	3-Aug-06	-35.6		131	30-Sep-06	-37.8		189
10-Apr-06	-26.7		16	7-Jun-06	-37.8		74	4-Aug-06	-36.6		132	1-Oct-06	-37.8		190
11-Apr-06	-27.2		17	8-Jun-06	-37.9		75	5-Aug-06	-37.5		133	2-Oct-06	-37.9		191
12-Apr-06	-27.5		18	9-Jun-06	-37.8		76	6-Aug-06	-37.8		134	3-Oct-06	-38		192
13-Apr-06	-27.5		19	10-Jun-06	-37.9		77	7-Aug-06	-37.8		135	4-Oct-06	-37.9		193
14-Apr-06	-27.7		20	11-Jun-06	-37.8		78	8-Aug-06	-37.8		136	5-Oct-06	-38		194
15-Apr-06	-27.5		21	12-Jun-06	-37.8		79	9-Aug-06	-37.8		137	6-Oct-06	-36.1		195
16-Apr-06	-28.3		22	13-Jun-06	-37.9		80	10-Aug-06	-37.8		138	7-Oct-06	-27.6		196
17-Apr-06	-28.7		23	14-Jun-06	-37.8		81	11-Aug-06	-37.8		139	8-Oct-06	-20.8		197
18-Apr-06	-28.5		24	15-Jun-06	-37.8		82	12-Aug-06	-37.9		140	9-Oct-06	-19.6		198
19-Apr-06	-29		25	16-Jun-06	-37.9		83	13-Aug-06	-37.9		141	10-Oct-06	-19		199
20-Apr-06	-29.4		26	17-Jun-06	-37.9		84	14-Aug-06	-37.9		142	11-Oct-06	-19.2		200
21-Apr-06	-30.1		27	18-Jun-06	-37.9		85	15-Aug-06	-37.9		143	12-Oct-06	-19.3		201
22-Apr-06	-30		28	19-Jun-06	-37.9		86	16-Aug-06	-37.9		144	13-Oct-06	-21.2		202
23-Apr-06	-27		29	20-Jun-06	-37.8		87	17-Aug-06	-37.9		145	14-Oct-06	-22.2		203
24-Apr-06	-26.9		30	21-Jun-06	-37.8		88	18-Aug-06	-37.9		146	15-Oct-06	-23.4		204
25-Apr-06	-27.3		31	22-Jun-06	-37.9		89	19-Aug-06	-37.9		147	16-Oct-06	-24.3		205
26-Apr-06	-27.9		32	23-Jun-06	-37.8		90	20-Aug-06	-37.9		148	17-Oct-06	-24.5		206
27-Apr-06	-27.9		33	24-Jun-06	-37.8		91	21-Aug-06	-37.9		149	18-Oct-06	-19.9		207
28-Apr-06	-27.3		34	25-Jun-06	-37.9		92	22-Aug-06	-37.9		150	19-Oct-06	-20.6		208
29-Apr-06	-28.6		35	26-Jun-06	-37.8		93	23-Aug-06	-37.8		151	20-Oct-06	-20.6		209
30-Apr-06	-29.8		36	27-Jun-06	-37.8		94	24-Aug-06	-37.9		152	21-Oct-06	-22.7		210
1-May-06	-30.6		37	28-Jun-06	-37.9		95	25-Aug-06	-37.9		153	22-Oct-06	-23.2		211
2-May-06	-31.2		38	29-Jun-06	-37.9		96	26-Aug-06	-38		154	23-Oct-06	-23.4		212
3-May-06	-31.9		39	30-Jun-06	-37.9		97	27-Aug-06	-37.9		155	24-Oct-06	-24.3		213
4-May-06	-32.6		40	1-Jul-06	-37.9		98	28-Aug-06	-37.9		156	25-Oct-06	-25.2		214
5-May-06	-33.4		41	2-Jul-06	-37.9		99	29-Aug-06	-38		157	26-Oct-06	-25.9		215
6-May-06	-34		42	3-Jul-06	-37.9		100	30-Aug-06	-37.9		158	27-Oct-06	-26.1		216
7-May-06	-34.9		43	4-Jul-06	-37.9		101	31-Aug-06	-38		159	28-Oct-06	-16.7		217
8-May-06	-32.5		44	5-Jul-06	-37.8		102	1-Sep-06	-38		160	29-Oct-06	-19.2		218
9-May-06	-31.5		45	6-Jul-06	-37.8		103	2-Sep-06	-38		161	30-Oct-06	-20.1		219
10-May-06	-31.4		46	7-Jul-06	-32.3		104	3-Sep-06	-38		162	31-Oct-06	-20.6		220
11-May-06	-32		47	8-Jul-06	-31.2		105	4-Sep-06	-38.1		163	1-Nov-06	-21.1		221
12-May-06	-32.9		48	9-Jul-06	-31.2		106	5-Sep-06	-38.1		164	2-Nov-06	-21.7		222

River Bend 9
Data Installed : March 16, 2006
Serial Number: 9DE5D68
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06	-23		223	30-Dec-06	-17.2										
4-Nov-06	-23.6		224	31-Dec-06	-17.3										
5-Nov-06	-24			1-Jan-07	-3.3										
6-Nov-06	-24.3			2-Jan-07	3.5										
7-Nov-06	-24.3			3-Jan-07	3.7										
8-Nov-06	-10.6			4-Jan-07	0.2										
9-Nov-06	-13.1			5-Jan-07	-1.7										
10-Nov-06	-14.7			6-Jan-07	-3.7										
11-Nov-06	-15.4			7-Jan-07	-6.9										
12-Nov-06	-5.3			8-Jan-07	0.8										
13-Nov-06	-7.9			9-Jan-07	-3.8										
14-Nov-06	-10			10-Jan-07	-6.8										
15-Nov-06	-12			11-Jan-07	-9.1										
16-Nov-06	-0.9			12-Jan-07	-10										
17-Nov-06	-4.7			13-Jan-07	-11.2										
18-Nov-06	-6.6			14-Jan-07	-12.5										
19-Nov-06	-8.7			15-Jan-07	-13.3										
20-Nov-06	-10.6			16-Jan-07	-14.6										
21-Nov-06	-12.5			17-Jan-07	-16.4										
22-Nov-06	-0.8			18-Jan-07	-17										
23-Nov-06	1			19-Jan-07	-16.9										
24-Nov-06	-2.6			20-Jan-07	-18.1										
25-Nov-06	-5.5			21-Jan-07	-18.8										
26-Nov-06	-7.7			22-Jan-07	-13.9										
27-Nov-06	-9.8			23-Jan-07	-15.5										
28-Nov-06	-11.4			24-Jan-07	-17										
29-Nov-06	-12.7			25-Jan-07	-17.7										
30-Nov-06	-13.6			26-Jan-07	-18.9										
1-Dec-06	-11.7			27-Jan-07	-19.1										
2-Dec-06	-14.9			28-Jan-07	-19										
3-Dec-06	-16			29-Jan-07	-20.4										
4-Dec-06	-16.9			30-Jan-07	-20.6										
5-Dec-06	-17.8			31-Jan-07	-21.1										
6-Dec-06	-18.5			1-Feb-07	-21.1										
7-Dec-06	-18.8			2-Feb-07	-20.3										
8-Dec-06	-20.1			3-Feb-07	-21.5										
9-Dec-06	-20.6			4-Feb-07	-21.9										
10-Dec-06	-21.1			5-Feb-07	-22.3										
11-Dec-06	-21.3			6-Feb-07	-22.9										
12-Dec-06	-21.8			7-Feb-07	-22.5										
13-Dec-06	-21.7			8-Feb-07	-22.9										
14-Dec-06	-21.8			9-Feb-07	-23.3										
15-Dec-06	-22			10-Feb-07	-23.5										
16-Dec-06	-22.7			11-Feb-07	-24.1										
17-Dec-06	-23.1			12-Feb-07	-24.3										
18-Dec-06	-23.2			13-Feb-07	-24										
19-Dec-06	-23.4			14-Feb-07	-6.6										
20-Dec-06	-24			15-Feb-07	-9.4										
21-Dec-06	-24			16-Feb-07	-11.4										
22-Dec-06	-23.8			17-Feb-07	-13										
23-Dec-06	-19.2			18-Feb-07	-13.9										
24-Dec-06	-20.3			19-Feb-07	-15.9										
25-Dec-06	-20.5			20-Feb-07	-15.8										
26-Dec-06	-11.8														
27-Dec-06	-14.6														
28-Dec-06	-15.8														
29-Dec-06	-16.7														

River Bend 10
Data Installed : March 16, 2006
Serial Number: 9DE73C0
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06				13-May-06	-34.8		49	10-Jul-06	-18.7		107	6-Sep-06	-31.2		165
17-Mar-06	-26.4			14-May-06	-35.3		50	11-Jul-06	-21.6		108	7-Sep-06	-31.1		166
18-Mar-06	-27.1			15-May-06	-35.2		51	12-Jul-06	-22.8		109	8-Sep-06	-30.8		167
19-Mar-06	-27.3			16-May-06	-35		52	13-Jul-06	-22.5		110	9-Sep-06	-30.5		168
20-Mar-06	-27.4			17-May-06	-34.9		53	14-Jul-06	-22.8		111	10-Sep-06	-30.9		169
21-Mar-06	-25.7			18-May-06	-35.5		54	15-Jul-06	-22.8		112	11-Sep-06	-31.8		170
22-Mar-06	-25.7			19-May-06	-35.8		55	16-Jul-06	-23.3		113	12-Sep-06	-31.8		171
23-Mar-06	-26.2			20-May-06	-36.4		56	17-Jul-06	-24.9		114	13-Sep-06	-31		172
24-Mar-06	-25.9			21-May-06	-36.8		57	18-Jul-06	-24.9		115	14-Sep-06	-30.7		173
25-Mar-06	-26.1			22-May-06	-36.9		58	19-Jul-06	-30.3		116	15-Sep-06	-31.4		174
26-Mar-06	-26.5		1	23-May-06	-37.2		59	20-Jul-06	-31.2		117	16-Sep-06	-32		175
27-Mar-06	-27.1		2	24-May-06	-37.3		60	21-Jul-06	-30.9		118	17-Sep-06	-32.4		176
28-Mar-06	-27		3	25-May-06	-37.1		61	22-Jul-06	-29.5		119	18-Sep-06	-32.4		177
29-Mar-06	-27.2		4	26-May-06	-37.1		62	23-Jul-06	-30.1		120	19-Sep-06	-31.3		178
30-Mar-06	-27.6		5	27-May-06	-35.4		63	24-Jul-06	-29.7		121	20-Sep-06	-33.8		179
31-Mar-06	-27.7		6	28-May-06	-34.8		64	25-Jul-06	-31.5		122	21-Sep-06	-35.5		180
1-Apr-06	-27.1		7	29-May-06	-34.7		65	26-Jul-06	-4.1	1	123	22-Sep-06	-35.5		181
2-Apr-06	-27.9		8	30-May-06	-33.7		66	27-Jul-06	-17.1		124	23-Sep-06	-35.5		182
3-Apr-06	-27.2		9	31-May-06	-29		67	28-Jul-06	-26.8		125	24-Sep-06	-35.5		183
4-Apr-06	-26.6		10	1-Jun-06	-27.4		68	29-Jul-06	-26		126	25-Sep-06	-34.7		184
5-Apr-06	-26.6		11	2-Jun-06	-26.4		69	30-Jul-06	-25.1		127	26-Sep-06	-35.4		185
6-Apr-06	-27.2		12	3-Jun-06	-25.4		70	31-Jul-06	-27.7		128	27-Sep-06	-35.5		186
7-Apr-06	-27.3		13	4-Jun-06	-25		71	1-Aug-06	-29.5		129	28-Sep-06	-35.5		187
8-Apr-06	-27.7		14	5-Jun-06	-25.9		72	2-Aug-06	-30.3		130	29-Sep-06	-35.6		188
9-Apr-06	-28.1		15	6-Jun-06	-24.2		73	3-Aug-06	-30.3		131	30-Sep-06	-35.7		189
10-Apr-06	-28.2		16	7-Jun-06	-23.6		74	4-Aug-06	-30.3		132	1-Oct-06	-35.3		190
11-Apr-06	-28.5		17	8-Jun-06	-23.1		75	5-Aug-06	-31		133	2-Oct-06	-35.7		191
12-Apr-06	-28.7		18	9-Jun-06	-23.3		76	6-Aug-06	-30.5		134	3-Oct-06	-35.7		192
13-Apr-06	-28.7		19	10-Jun-06	-23.1		77	7-Aug-06	-30.6		135	4-Oct-06	-35.7		193
14-Apr-06	-28.7		20	11-Jun-06	-22.6		78	8-Aug-06	-31		136	5-Oct-06	-35.8		194
15-Apr-06	-28.7		21	12-Jun-06	-22.6		79	9-Aug-06	-30.7		137	6-Oct-06	-7.8	1	195
16-Apr-06	-29.4		22	13-Jun-06	-20.5		80	10-Aug-06	-29.9		138	7-Oct-06	-17.9		196
17-Apr-06	-29.7		23	14-Jun-06	-18.7		81	11-Aug-06	-30.5		139	8-Oct-06	-16.6		197
18-Apr-06	-30		24	15-Jun-06	-18.8		82	12-Aug-06	-30.5		140	9-Oct-06	-23.4		198
19-Apr-06	-30.3		25	16-Jun-06	-20.1		83	13-Aug-06	-31.5		141	10-Oct-06	-27.9		199
20-Apr-06	-30.7		26	17-Jun-06	-19.6		84	14-Aug-06	-31.1		142	11-Oct-06	-30.3		200
21-Apr-06	-31.4		27	18-Jun-06	-19.6		85	15-Aug-06	-32.1		143	12-Oct-06	-31.2		201
22-Apr-06	-31.4		28	19-Jun-06	-19.7		86	16-Aug-06	-32.2		144	13-Oct-06	-33.3		202
23-Apr-06	-26.5		29	20-Jun-06	-20.3		87	17-Aug-06	-31.9		145	14-Oct-06	-34.2		203
24-Apr-06	-26.8		30	21-Jun-06	-20.8		88	18-Aug-06	-31.9		146	15-Oct-06	-35		204
25-Apr-06	-27.9		31	22-Jun-06	-18.3		89	19-Aug-06	-32.1		147	16-Oct-06	-35.6		205
26-Apr-06	-29		32	23-Jun-06	-18.4		90	20-Aug-06	-33.2		148	17-Oct-06	-35.6		206
27-Apr-06	-28.9		33	24-Jun-06	-18.4		91	21-Aug-06	-34.7		149	18-Oct-06	-30.9		207
28-Apr-06	-29		34	25-Jun-06	-18.5		92	22-Aug-06	-34.8		150	19-Oct-06	-31		208
29-Apr-06	-30.2		35	26-Jun-06	-18.1		93	23-Aug-06	-34.4		151	20-Oct-06	-30.7		209
30-Apr-06	-30.7		36	27-Jun-06	-18		94	24-Aug-06	-33.5		152	21-Oct-06	-32.8		210
1-May-06	-31.1		37	28-Jun-06	-18.5		95	25-Aug-06	-34.3		153	22-Oct-06	-33		211
2-May-06	-31.9		38	29-Jun-06	-19.4		96	26-Aug-06	-34.3		154	23-Oct-06	-33.2		212
3-May-06	-32.4		39	30-Jun-06	-20.1		97	27-Aug-06	-34.4		155	24-Oct-06	-33.9		213
4-May-06	-33.1		40	1-Jul-06	-21.2		98	28-Aug-06	-35		156	25-Oct-06	-34.6		214
5-May-06	-33.4		41	2-Jul-06	-20.7		99	29-Aug-06	-35.1		157	26-Oct-06	-33.5		215
6-May-06	-34.2		42	3-Jul-06	-20.7		100	30-Aug-06	-35.4		158	27-Oct-06	-34.7		216
7-May-06	-35.3		43	4-Jul-06	-20.2		101	31-Aug-06	-35.5		159	28-Oct-06	-19.5		217
8-May-06	-33.3		44	5-Jul-06	-19.6		102	1-Sep-06	-31.5		160	29-Oct-06	-23.5		218
9-May-06	-32.7		45	6-Jul-06	6	1	103	2-Sep-06	-31.6		161	30-Oct-06	-26.2		219
10-May-06	-32.6		46	7-Jul-06	2.1	2	104	3-Sep-06	-31.9		162	31-Oct-06	-27.6		220
11-May-06	-33.1		47	8-Jul-06	-9.3	3	105	4-Sep-06	-32		163	1-Nov-06	-28.8		221
12-May-06	-33.7		48	9-Jul-06	-16.4		106	5-Sep-06	-31.3		164	2-Nov-06	-29.7		222

River Bend 10
Data Installed : March 16, 2006
Serial Number: 9DE73C0
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06	-31.2		223	30-Dec-06	-3.1										
4-Nov-06	-31.2		224	31-Dec-06	-5.2										
5-Nov-06	-30.9			1-Jan-07	3.1										
6-Nov-06	-31.2			2-Jan-07	-44.6										
7-Nov-06	-32.2			3-Jan-07	-44.6										
8-Nov-06	-5.7			4-Jan-07	-44.6										
9-Nov-06	-4.3			5-Jan-07	-44.6										
10-Nov-06	-6.8			6-Jan-07	-44.6										
11-Nov-06	-11.6			7-Jan-07	-44.6										
12-Nov-06	0			8-Jan-07	-44.6										
13-Nov-06	0.5			9-Jan-07	6.8										
14-Nov-06	0			10-Jan-07	5										
15-Nov-06	-2.1			11-Jan-07	1.8										
16-Nov-06	2.3			12-Jan-07	6.7										
17-Nov-06	5.9			13-Jan-07	3.7										
18-Nov-06	4.9			14-Jan-07	1.2										
19-Nov-06	1.5			15-Jan-07	1.3										
20-Nov-06	1			16-Jan-07	0.2										
21-Nov-06	0.5			17-Jan-07	-2.9										
22-Nov-06	3			18-Jan-07	-4.7										
23-Nov-06	4.3			19-Jan-07	-3.6										
24-Nov-06	4			20-Jan-07	-5.7										
25-Nov-06	1.7			21-Jan-07	-7.2										
26-Nov-06	1.4			22-Jan-07	1.1										
27-Nov-06	0.9			23-Jan-07	2.1										
28-Nov-06	0.5			24-Jan-07	1.4										
29-Nov-06	0.3			25-Jan-07	0.7										
30-Nov-06	-1.3			26-Jan-07	-0.5										
1-Dec-06	0.7			27-Jan-07	-2.9										
2-Dec-06	-2.9			28-Jan-07	-4.4										
3-Dec-06	-5.7			29-Jan-07	-7.1										
4-Dec-06	-7.1			30-Jan-07	-8										
5-Dec-06	-9.4			31-Jan-07	-8.5										
6-Dec-06	-10.9			1-Feb-07	-8.5										
7-Dec-06	-11			2-Feb-07	-5.2										
8-Dec-06	-13.2			3-Feb-07	-7.4										
9-Dec-06	-14.5			4-Feb-07	-9.9										
10-Dec-06	-15.2			5-Feb-07	-10.7										
11-Dec-06	-15.5			6-Feb-07	-12.1										
12-Dec-06	-16.2			7-Feb-07	-11.2										
13-Dec-06	-16.2			8-Feb-07	-10.7										
14-Dec-06	-15.6			9-Feb-07	-12.2										
15-Dec-06	-15.7			10-Feb-07	-12.4										
16-Dec-06	-17.5			11-Feb-07	-13.6										
17-Dec-06	-18.3			12-Feb-07	-14.1										
18-Dec-06	-18.6			13-Feb-07	-13.2										
19-Dec-06	-19.2			14-Feb-07	2.8										
20-Dec-06	-20.2			15-Feb-07	3.2										
21-Dec-06	-20.2			16-Feb-07	2.2										
22-Dec-06	-20			17-Feb-07	0.2										
23-Dec-06	-5.4			18-Feb-07	0										
24-Dec-06	-10.1			19-Feb-07	-2.6										
25-Dec-06	-11.2			20-Feb-07	-3.3										
26-Dec-06	2.9														
27-Dec-06	0.5														
28-Dec-06	0														
29-Dec-06	-1														

River Bend 11
Data Installed : March 16, 2006
Serial Number: 9DE6139
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06				13-May-06	-41.2		49	10-Jul-06	-40.9		107	6-Sep-06	-40.8		165
17-Mar-06	-41.4			14-May-06	-41.2		50	11-Jul-06	-41		108	7-Sep-06	-40.8		166
18-Mar-06	-41.5			15-May-06	-41.2		51	12-Jul-06	-41.1		109	8-Sep-06	-40.8		167
19-Mar-06	-41.5			16-May-06	-41.2		52	13-Jul-06	-41.1		110	9-Sep-06	-40.8		168
20-Mar-06	-41.4			17-May-06	-41.2		53	14-Jul-06	-41.1		111	10-Sep-06	-40.8		169
21-Mar-06	-41.4			18-May-06	-41.2		54	15-Jul-06	-41.1		112	11-Sep-06	-40.7		170
22-Mar-06	-41.4			19-May-06	-41.3		55	16-Jul-06	-41.1		113	12-Sep-06	-40.7		171
23-Mar-06	-41.4			20-May-06	-41.2		56	17-Jul-06	-41.1		114	13-Sep-06	-40.7		172
24-Mar-06	-41.4			21-May-06	-41.2		57	18-Jul-06	-41.1		115	14-Sep-06	-30.7		173
25-Mar-06	-41.4			22-May-06	-41.2		58	19-Jul-06	-41.1		116	15-Sep-06	-40.6		174
26-Mar-06	-41.4		1	23-May-06	-41.2		59	20-Jul-06	-41.1		117	16-Sep-06	-40.6		175
27-Mar-06	-41.4		2	24-May-06	-41.2		60	21-Jul-06	-41.1		118	17-Sep-06	-40.5		176
28-Mar-06	-41.4		3	25-May-06	-41.2		61	22-Jul-06	-41.1		119	18-Sep-06	-40.5		177
29-Mar-06	-41.4		4	26-May-06	-41.2		62	23-Jul-06	-41.1		120	19-Sep-06	-40.5		178
30-Mar-06	-41.4		5	27-May-06	-41.2		63	24-Jul-06	-41.1		121	20-Sep-06	-40.5		179
31-Mar-06	-41.4		6	28-May-06	-41.2		64	25-Jul-06	-41.1		122	21-Sep-06	-40.6		180
1-Apr-06	-41.3		7	29-May-06	-41.2		65	26-Jul-06	-40.7		123	22-Sep-06	-40.7		181
2-Apr-06	-41.3		8	30-May-06	-41.2		66	27-Jul-06	-40.9		124	23-Sep-06	-40.7		182
3-Apr-06	-41.3		9	31-May-06	-41.2		67	28-Jul-06	-40.9		125	24-Sep-06	-40.7		183
4-Apr-06	-41.4		10	1-Jun-06	-41.2		68	29-Jul-06	-41		126	25-Sep-06	-40.7		184
5-Apr-06	-41.4		11	2-Jun-06	-41.2		69	30-Jul-06	-41		127	26-Sep-06	-40.8		185
6-Apr-06	-41.4		12	3-Jun-06	-41.2		70	31-Jul-06	-41		128	27-Sep-06	-40.7		186
7-Apr-06	-41.4		13	4-Jun-06	-41.2		71	1-Aug-06	-41		129	28-Sep-06	-40.7		187
8-Apr-06	-41.4		14	5-Jun-06	-41.2		72	2-Aug-06	-41		130	29-Sep-06	-40.8		188
9-Apr-06	-41.4		15	6-Jun-06	-41.2		73	3-Aug-06	-41		131	30-Sep-06	-40.7		189
10-Apr-06	-41.4		16	7-Jun-06	-41.2		74	4-Aug-06	-41		132	1-Oct-06	-40.7		190
11-Apr-06	-41.4		17	8-Jun-06	-41.2		75	5-Aug-06	-41		133	2-Oct-06	-40.8		191
12-Apr-06	-41.4		18	9-Jun-06	-41.2		76	6-Aug-06	-41		134	3-Oct-06	-40.8		192
13-Apr-06	-41.4		19	10-Jun-06	-41.2		77	7-Aug-06	-41		135	4-Oct-06	-40.7		193
14-Apr-06	-41.4		20	11-Jun-06	-41.2		78	8-Aug-06	-41		136	5-Oct-06	-40.7		194
15-Apr-06	-41.4		21	12-Jun-06	-41.2		79	9-Aug-06	-41		137	6-Oct-06	-25.6		195
16-Apr-06	-41.4		22	13-Jun-06	-41.2		80	10-Aug-06	-41		138	7-Oct-06	-37.3		196
17-Apr-06	-41.4		23	14-Jun-06	-41.2		81	11-Aug-06	-41		139	8-Oct-06	-38.6		197
18-Apr-06	-41.4		24	15-Jun-06	-41.1		82	12-Aug-06	-41		140	9-Oct-06	-40.5		198
19-Apr-06	-41.4		25	16-Jun-06	-41		83	13-Aug-06	-41		141	10-Oct-06	-40.7		199
20-Apr-06	-41.4		26	17-Jun-06	-41		84	14-Aug-06	-40.9		142	11-Oct-06	-40.7		200
21-Apr-06	-41.4		27	18-Jun-06	-41.1		85	15-Aug-06	-40.9		143	12-Oct-06	-40.7		201
22-Apr-06	-41.4		28	19-Jun-06	-41		86	16-Aug-06	-41		144	13-Oct-06	-40.8		202
23-Apr-06	-41.4		29	20-Jun-06	-41		87	17-Aug-06	-41		145	14-Oct-06	-40.7		203
24-Apr-06	-41.4		30	21-Jun-06	-41		88	18-Aug-06	-41		146	15-Oct-06	-40.8		204
25-Apr-06	-41.4		31	22-Jun-06	-41		89	19-Aug-06	-40.9		147	16-Oct-06	-40.8		205
26-Apr-06	-41.4		32	23-Jun-06	-41		90	20-Aug-06	-40.9		148	17-Oct-06	-40.8		206
27-Apr-06	-41.4		33	24-Jun-06	-41.1		91	21-Aug-06	-40.9		149	18-Oct-06	-40.8		207
28-Apr-06	-41.4		34	25-Jun-06	-41.1		92	22-Aug-06	-41		150	19-Oct-06	-40.8		208
29-Apr-06	-41.3		35	26-Jun-06	-41		93	23-Aug-06	-40.9		151	20-Oct-06	-40.7		209
30-Apr-06	-41.4		36	27-Jun-06	-41.1		94	24-Aug-06	-40.9		152	21-Oct-06	-40.7		210
1-May-06	-41.3		37	28-Jun-06	-41.1		95	25-Aug-06	-40.9		153	22-Oct-06	-40.8		211
2-May-06	-41.3		38	29-Jun-06	-41.1		96	26-Aug-06	-40.9		154	23-Oct-06	-40.8		212
3-May-06	-41.2		39	30-Jun-06	-41.1		97	27-Aug-06	-40.9		155	24-Oct-06	-40.8		213
4-May-06	-41.2		40	1-Jul-06	-41.1		98	28-Aug-06	-40.9		156	25-Oct-06	-40.9		214
5-May-06	-41.2		41	2-Jul-06	-41.1		99	29-Aug-06	-41		157	26-Oct-06	-40.9		215
6-May-06	-41.2		42	3-Jul-06	-41.1		100	30-Aug-06	-41		158	27-Oct-06	-40.9		216
7-May-06	-41.3		43	4-Jul-06	-41.1		101	31-Aug-06	-41		159	28-Oct-06	-40.9		217
8-May-06	-41.2		44	5-Jul-06	-40.9		102	1-Sep-06	-41		160	29-Oct-06	-38.8		218
9-May-06	-41.2		45	6-Jul-06	-22.4		103	2-Sep-06	-40.9		161	30-Oct-06	-38.6		219
10-May-06	-41.2		46	7-Jul-06	-40.9		104	3-Sep-06	-40.8		162	31-Oct-06	-38.7		220
11-May-06	-41.2		47	8-Jul-06	-40.9		105	4-Sep-06	-40.8		163	1-Nov-06	-38.8		221
12-May-06	-41.2		48	9-Jul-06	-40.9		106	5-Sep-06	-40.8		164	2-Nov-06	-38.8		222

River Bend 11
Data Installed : March 16, 2006
Serial Number: 9DE6139
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06	-38.9		223	30-Dec-06	-21.6										
4-Nov-06	-40.3		224	31-Dec-06	-22.4										
5-Nov-06	-40.7			1-Jan-07	-21.2										
6-Nov-06	-40.8			2-Jan-07	2.8										
7-Nov-06	-40.8			3-Jan-07	3.6										
8-Nov-06	-40.8			4-Jan-07	2.3										
9-Nov-06	-36.8			5-Jan-07	2										
10-Nov-06	-35.7			6-Jan-07	1.4										
11-Nov-06	-35.8			7-Jan-07	0.1										
12-Nov-06	-36.2			8-Jan-07	2.5										
13-Nov-06	-20.3			9-Jan-07	1										
14-Nov-06	-22.7			10-Jan-07	-0.3										
15-Nov-06	-25.3			11-Jan-07	-1.5										
16-Nov-06	-26.7			12-Jan-07	-1.6										
17-Nov-06	-7.4			13-Jan-07	-1.9										
18-Nov-06	-1.3			14-Jan-07	-2.7										
19-Nov-06	-5.1			15-Jan-07	-3.1										
20-Nov-06	-10.7			16-Jan-07	-3.8										
21-Nov-06	-15.6			17-Jan-07	-8.3										
22-Nov-06	-1.6			18-Jan-07	-9.5										
23-Nov-06	1.2			19-Jan-07	-6.1										
24-Nov-06	0			20-Jan-07	-9.7										
25-Nov-06	-1.2			21-Jan-07	-11.4										
26-Nov-06	-3.6			22-Jan-07	0.5										
27-Nov-06	-6.5			23-Jan-07	-0.5										
28-Nov-06	-9.4			24-Jan-07	-2.8										
29-Nov-06	-11.4			25-Jan-07	-4.6										
30-Nov-06	-12.9			26-Jan-07	-8.8										
1-Dec-06	-7.4			27-Jan-07	-9.2										
2-Dec-06	-11.1			28-Jan-07	-8.2										
3-Dec-06	-15.1			29-Jan-07	-12.7										
4-Dec-06	-17.1			30-Jan-07	-13.7										
5-Dec-06	-19.4			31-Jan-07	-14.6										
6-Dec-06	-21.5			1-Feb-07	-15.3										
7-Dec-06	-22.4			2-Feb-07	-11.9										
8-Dec-06	-24.6			3-Feb-07	-13.3										
9-Dec-06	-26.1			4-Feb-07	-15.7										
10-Dec-06	-27.2			5-Feb-07	-16.3										
11-Dec-06	-28.3			6-Feb-07	-18.1										
12-Dec-06	-29.6			7-Feb-07	-17.5										
13-Dec-06	-30.4			8-Feb-07	-19.3										
14-Dec-06	-31			9-Feb-07	-19.8										
15-Dec-06	-31.5			10-Feb-07	-20.5										
16-Dec-06	-32.5			11-Feb-07	-21.8										
17-Dec-06	-33.4			12-Feb-07	-22.4										
18-Dec-06	-34			13-Feb-07	-23.1										
19-Dec-06	-34.5			14-Feb-07	-3.4										
20-Dec-06	-35.3			15-Feb-07	-2.2										
21-Dec-06	-35.9			16-Feb-07	-3.4										
22-Dec-06	-36.2			17-Feb-07	-5.3										
23-Dec-06	-30.9			18-Feb-07	-5.9										
24-Dec-06	-29.8			19-Feb-07	-9.4										
25-Dec-06	-30.1			20-Feb-07	-7.7										
26-Dec-06	-15.4														
27-Dec-06	-12.7														
28-Dec-06	-17.1														
29-Dec-06	-19.8														

River Bend 12
Data Installed : March 16, 2006
Serial Number: 9DE5053
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06				13-May-06	-41.2		49	10-Jul-06	-41		107	6-Sep-06	-41		165
17-Mar-06	-41.3			14-May-06	-41.1		50	11-Jul-06	-41		108	7-Sep-06	-41		166
18-Mar-06	-41.3			15-May-06	-41.1		51	12-Jul-06	-40.9		109	8-Sep-06	-41		167
19-Mar-06	-41.3			16-May-06	-41.1		52	13-Jul-06	-40.9		110	9-Sep-06	-40.9		168
20-Mar-06	-41.3			17-May-06	-41.1		53	14-Jul-06	-40.9		111	10-Sep-06	-40.9		169
21-Mar-06	-41.2			18-May-06	-41.1		54	15-Jul-06	-41		112	11-Sep-06	-40.9		170
22-Mar-06	-41.2			19-May-06	-41.1		55	16-Jul-06	-41		113	12-Sep-06	-40.9		171
23-Mar-06	-41.2			20-May-06	-41.1		56	17-Jul-06	-41		114	13-Sep-06	-40.9		172
24-Mar-06	-41.2			21-May-06	-41.1		57	18-Jul-06	-41		115	14-Sep-06	-40.9		173
25-Mar-06	-41.2			22-May-06	-41.1		58	19-Jul-06	-41		116	15-Sep-06	-40.9		174
26-Mar-06	-41.2		1	23-May-06	-41.1		59	20-Jul-06	-41		117	16-Sep-06	-40.9		175
27-Mar-06	-41.2		2	24-May-06	-41.1		60	21-Jul-06	-41		118	17-Sep-06	-40.9		176
28-Mar-06	-41.1		3	25-May-06	-41.1		61	22-Jul-06	-41		119	18-Sep-06	-40.9		177
29-Mar-06	-41.1		4	26-May-06	-41.1		62	23-Jul-06	-41		120	19-Sep-06	-40.9		178
30-Mar-06	-41.1		5	27-May-06	-41.1		63	24-Jul-06	-41		121	20-Sep-06	-40.9		179
31-Mar-06	-41.1		6	28-May-06	-41.1		64	25-Jul-06	-41		122	21-Sep-06	-40.9		180
1-Apr-06	-41.1		7	29-May-06	-41.1		65	26-Jul-06	-40.7		123	22-Sep-06	-40.9		181
2-Apr-06	-41.1		8	30-May-06	-41.1		66	27-Jul-06	-40.7		124	23-Sep-06	-40.8		182
3-Apr-06	-41.1		9	31-May-06	-41.1		67	28-Jul-06	-40.8		125	24-Sep-06	-40.9		183
4-Apr-06	-41.1		10	1-Jun-06	-41.1		68	29-Jul-06	-40.8		126	25-Sep-06	-40.9		184
5-Apr-06	-41.1		11	2-Jun-06	-41.1		69	30-Jul-06	-40.8		127	26-Sep-06	-40.9		185
6-Apr-06	-41.1		12	3-Jun-06	-41.1		70	31-Jul-06	-40.8		128	27-Sep-06	-40.9		186
7-Apr-06	-41.2		13	4-Jun-06	-41.1		71	1-Aug-06	-40.9		129	28-Sep-06	-40.7		187
8-Apr-06	-41.2		14	5-Jun-06	-41.1		72	2-Aug-06	-40.9		130	29-Sep-06	-40.8		188
9-Apr-06	-41.2		15	6-Jun-06	-41.1		73	3-Aug-06	-40.9		131	30-Sep-06	-40.8		189
10-Apr-06	-41.2		16	7-Jun-06	-41.1		74	4-Aug-06	-40.9		132	1-Oct-06	-40.7		190
11-Apr-06	-41.2		17	8-Jun-06	-41.1		75	5-Aug-06	-41		133	2-Oct-06	-40.8		191
12-Apr-06	-41.2		18	9-Jun-06	-41.1		76	6-Aug-06	-41		134	3-Oct-06	-40.8		192
13-Apr-06	-41.1		19	10-Jun-06	-41.1		77	7-Aug-06	-41		135	4-Oct-06	-40.8		193
14-Apr-06	-41.2		20	11-Jun-06	-41		78	8-Aug-06	-41		136	5-Oct-06	-40.8		194
15-Apr-06	-41.1		21	12-Jun-06	-41		79	9-Aug-06	-41		137	6-Oct-06	-40.7		195
16-Apr-06	-41.1		22	13-Jun-06	-41		80	10-Aug-06	-41		138	7-Oct-06	-40.7		196
17-Apr-06	-41.2		23	14-Jun-06	-41		81	11-Aug-06	-41		139	8-Oct-06	-40.6		197
18-Apr-06	-41.2		24	15-Jun-06	-41		82	12-Aug-06	-41		140	9-Oct-06	-40.6		198
19-Apr-06	-41.2		25	16-Jun-06	-41		83	13-Aug-06	-41		141	10-Oct-06	-40.7		199
20-Apr-06	-41.2		26	17-Jun-06	-41		84	14-Aug-06	-41		142	11-Oct-06	-40.7		200
21-Apr-06	-41.2		27	18-Jun-06	-41.1		85	15-Aug-06	-40.9		143	12-Oct-06	-40.7		201
22-Apr-06	-41.2		28	19-Jun-06	-41		86	16-Aug-06	-40.9		144	13-Oct-06	-40.6		202
23-Apr-06	-41.2		29	20-Jun-06	-41		87	17-Aug-06	-40.9		145	14-Oct-06	-40.7		203
24-Apr-06	-41.2		30	21-Jun-06	-41		88	18-Aug-06	-40.9		146	15-Oct-06	-40.8		204
25-Apr-06	-41.2		31	22-Jun-06	-41		89	19-Aug-06	-40.9		147	16-Oct-06	-40.7		205
26-Apr-06	-41.2		32	23-Jun-06	-41		90	20-Aug-06	-40.9		148	17-Oct-06	-40.7		206
27-Apr-06	-41.2		33	24-Jun-06	-41		91	21-Aug-06	-40.9		149	18-Oct-06	-40.7		207
28-Apr-06	-41.2		34	25-Jun-06	-41		92	22-Aug-06	-40.9		150	19-Oct-06	-40.7		208
29-Apr-06	-41.2		35	26-Jun-06	-41		93	23-Aug-06	-40.9		151	20-Oct-06	-40.7		209
30-Apr-06	-41.2		36	27-Jun-06	-41		94	24-Aug-06	-40.9		152	21-Oct-06	-40.8		210
1-May-06	-41.1		37	28-Jun-06	-41		95	25-Aug-06	-40.9		153	22-Oct-06	-40.7		211
2-May-06	-41.2		38	29-Jun-06	-41.1		96	26-Aug-06	-40.9		154	23-Oct-06	-40.8		212
3-May-06	-41.1		39	30-Jun-06	-41		97	27-Aug-06	-41		155	24-Oct-06	-40.9		213
4-May-06	-41.2		40	1-Jul-06	-41		98	28-Aug-06	-41		156	25-Oct-06	-40.8		214
5-May-06	-41.1		41	2-Jul-06	-41.1		99	29-Aug-06	-41		157	26-Oct-06	-40.8		215
6-May-06	-41.1		42	3-Jul-06	-41.1		100	30-Aug-06	-41		158	27-Oct-06	-40.8		216
7-May-06	-41.2		43	4-Jul-06	-41		101	31-Aug-06	-41		159	28-Oct-06	-40.7		217
8-May-06	-41.2		44	5-Jul-06	-40.9		102	1-Sep-06	-40.9		160	29-Oct-06	-40.8		218
9-May-06	-41.2		45	6-Jul-06	-40.9		103	2-Sep-06	-41		161	30-Oct-06	-40.8		219
10-May-06	-41.1		46	7-Jul-06	-41		104	3-Sep-06	-41		162	31-Oct-06	-40.8		220
11-May-06	-41.1		47	8-Jul-06	-41		105	4-Sep-06	-41		163	1-Nov-06	-40.8		221
12-May-06	-41.1		48	9-Jul-06	-41		106	5-Sep-06	-41		164	2-Nov-06	-40.8		222

River Bend 12
Data Installed : March 16, 2006
Serial Number: 9DE5053
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06	-40.8		223	30-Dec-06	-40.9										
4-Nov-06	-40.8		224	31-Dec-06	-40.9										
5-Nov-06	-40.9			1-Jan-07	-33.8										
6-Nov-06	-40.9			2-Jan-07	2.7										
7-Nov-06	-40.8			3-Jan-07	3.5										
8-Nov-06	-40.7			4-Jan-07	-0.2										
9-Nov-06	-40.8			5-Jan-07	-0.7										
10-Nov-06	-40.8			6-Jan-07	-1.8										
11-Nov-06	-40.8			7-Jan-07	-7										
12-Nov-06	-40.8			8-Jan-07	0										
13-Nov-06	-40.8			9-Jan-07	-3.2										
14-Nov-06	-40.8			10-Jan-07	-9.2										
15-Nov-06	-40.8			11-Jan-07	-14.6										
16-Nov-06	-40.7			12-Jan-07	-17.2										
17-Nov-06	-40.8			13-Jan-07	-19.6										
18-Nov-06	-40.8			14-Jan-07	-21.8										
19-Nov-06	-40.9			15-Jan-07	-23										
20-Nov-06	-40.9			16-Jan-07	-24.4										
21-Nov-06	-40.9			17-Jan-07	-28.4										
22-Nov-06	-40.8			18-Jan-07	-30.1										
23-Nov-06	-19.6			19-Jan-07	-29										
24-Nov-06	-28.5			20-Jan-07	-31										
25-Nov-06	-33.4			21-Jan-07	-32.7										
26-Nov-06	-36.8			22-Jan-07	-28.6										
27-Nov-06	-38.8			23-Jan-07	-23.7										
28-Nov-06	-40.8			24-Jan-07	-25.1										
29-Nov-06	-40.8			25-Jan-07	-26.6										
30-Nov-06	-40.8			26-Jan-07	-29										
1-Dec-06	-40.7			27-Jan-07	-29.7										
2-Dec-06	-40.8			28-Jan-07	-30										
3-Dec-06	-40.8			29-Jan-07	-32.4										
4-Dec-06	-40.8			30-Jan-07	-33.7										
5-Dec-06	-40.9			31-Jan-07	-34.5										
6-Dec-06	-40.9			1-Feb-07	-35.3										
7-Dec-06	-40.9			2-Feb-07	-35.2										
8-Dec-06	-40.9			3-Feb-07	-36.4										
9-Dec-06	-40.9			4-Feb-07	-37.5										
10-Dec-06	-40.9			5-Feb-07	-38.2										
11-Dec-06	-40.9			6-Feb-07	-38.5										
12-Dec-06	-40.9			7-Feb-07	-38.5										
13-Dec-06	-40.8			8-Feb-07	-38.7										
14-Dec-06	-40.9			9-Feb-07	-38.7										
15-Dec-06	-40.9			10-Feb-07	-40.2										
16-Dec-06	-40.9			11-Feb-07	-40.7										
17-Dec-06	-40.9			12-Feb-07	-40.7										
18-Dec-06	-40.9			13-Feb-07	-40.7										
19-Dec-06	-40.9			14-Feb-07	-2.5										
20-Dec-06	-40.9			15-Feb-07	-12.6										
21-Dec-06	-40.9			16-Feb-07	-18										
22-Dec-06	-40.8			17-Feb-07	-22.5										
23-Dec-06	-40.8			18-Feb-07	-24.8										
24-Dec-06	-40.9			19-Feb-07	-28.8										
25-Dec-06	-40.8			20-Feb-07	-30.3										
26-Dec-06	-40.8														
27-Dec-06	-40.9														
28-Dec-06	-40.9														
29-Dec-06	-40.9														

River Bend 13
Data Installed : March 16, 2006
Serial Number: 9DE777E
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06				13-May-06	-41.4		49	10-Jul-06	-41.1		107	6-Sep-06	-41.1		165
17-Mar-06	-41.6			14-May-06	-41.4		50	11-Jul-06	-41.1		108	7-Sep-06	-40.9		166
18-Mar-06	-41.6			15-May-06	-41.4		51	12-Jul-06	-41.1		109	8-Sep-06	-41		167
19-Mar-06	-41.6			16-May-06	-41.4		52	13-Jul-06	-41.1		110	9-Sep-06	-41		168
20-Mar-06	-41.6			17-May-06	-41.3		53	14-Jul-06	-41.1		111	10-Sep-06	-41.1		169
21-Mar-06	-41.6			18-May-06	-41.3		54	15-Jul-06	-41.2		112	11-Sep-06	-41		170
22-Mar-06	-41.5			19-May-06	-41.3		55	16-Jul-06	-41.2		113	12-Sep-06	-41		171
23-Mar-06	-41.5			20-May-06	-41.3		56	17-Jul-06	-41.2		114	13-Sep-06	-41		172
24-Mar-06	-41.6			21-May-06	-41.3		57	18-Jul-06	-41.2		115	14-Sep-06	-35.8		173
25-Mar-06	-41.5			22-May-06	-41.3		58	19-Jul-06	-41.2		116	15-Sep-06	-40.9		174
26-Mar-06	-41.5		1	23-May-06	-41.3		59	20-Jul-06	-41.2		117	16-Sep-06	-40.9		175
27-Mar-06	-41.5		2	24-May-06	-41.3		60	21-Jul-06	-41.2		118	17-Sep-06	-40.9		176
28-Mar-06	-41.5		3	25-May-06	-41.3		61	22-Jul-06	-41.2		119	18-Sep-06	-40.9		177
29-Mar-06	-41.5		4	26-May-06	-41.3		62	23-Jul-06	-41.2		120	19-Sep-06	-40.9		178
30-Mar-06	-41.5		5	27-May-06	-41.2		63	24-Jul-06	-41.2		121	20-Sep-06	-41		179
31-Mar-06	-41.4		6	28-May-06	-41.3		64	25-Jul-06	-41.2		122	21-Sep-06	-41		180
1-Apr-06	-41.4		7	29-May-06	-41.3		65	26-Jul-06	-41.1		123	22-Sep-06	-41		181
2-Apr-06	-41.4		8	30-May-06	-41.3		66	27-Jul-06	-41.1		124	23-Sep-06	-41		182
3-Apr-06	-41.4		9	31-May-06	-41.4		67	28-Jul-06	-41.2		125	24-Sep-06	-41		183
4-Apr-06	-41.5		10	1-Jun-06	-41.3		68	29-Jul-06	-41.2		126	25-Sep-06	-41		184
5-Apr-06	-41.4		11	2-Jun-06	-41.3		69	30-Jul-06	-41.2		127	26-Sep-06	-41		185
6-Apr-06	-41.4		12	3-Jun-06	-41.4		70	31-Jul-06	-41.2		128	27-Sep-06	-41		186
7-Apr-06	-41.4		13	4-Jun-06	-41.3		71	1-Aug-06	-41.2		129	28-Sep-06	-41.1		187
8-Apr-06	-41.4		14	5-Jun-06	-41.3		72	2-Aug-06	-41.2		130	29-Sep-06	-41		188
9-Apr-06	-41.5		15	6-Jun-06	-41.3		73	3-Aug-06	-41.2		131	30-Sep-06	-41.1		189
10-Apr-06	-41.5		16	7-Jun-06	-41.4		74	4-Aug-06	-41.2		132	1-Oct-06	-41.1		190
11-Apr-06	-41.5		17	8-Jun-06	-41.4		75	5-Aug-06	-41.2		133	2-Oct-06	-41.1		191
12-Apr-06	-41.5		18	9-Jun-06	-41.3		76	6-Aug-06	-41.2		134	3-Oct-06	-41		192
13-Apr-06	-41.5		19	10-Jun-06	-41.4		77	7-Aug-06	-41.2		135	4-Oct-06	-41.1		193
14-Apr-06	-41.4		20	11-Jun-06	-41.4		78	8-Aug-06	-41.2		136	5-Oct-06	-41		194
15-Apr-06	-41.5		21	12-Jun-06	-41.4		79	9-Aug-06	-41.2		137	6-Oct-06	-37.2		195
16-Apr-06	-41.4		22	13-Jun-06	-41.4		80	10-Aug-06	-41.2		138	7-Oct-06	-41		196
17-Apr-06	-41.5		23	14-Jun-06	-41.4		81	11-Aug-06	-41.2		139	8-Oct-06	-41		197
18-Apr-06	-41.5		24	15-Jun-06	-41.4		82	12-Aug-06	-41.2		140	9-Oct-06	-41		198
19-Apr-06	-41.5		25	16-Jun-06	-41.4		83	13-Aug-06	-41.1		141	10-Oct-06	-41		199
20-Apr-06	-41.4		26	17-Jun-06	-41.4		84	14-Aug-06	-41.1		142	11-Oct-06	-40.8		200
21-Apr-06	-41.4		27	18-Jun-06	-41.4		85	15-Aug-06	-41.1		143	12-Oct-06	-40.8		201
22-Apr-06	-41.4		28	19-Jun-06	-41.4		86	16-Aug-06	-41.1		144	13-Oct-06	-40.9		202
23-Apr-06	-41.4		29	20-Jun-06	-41.3		87	17-Aug-06	-41.2		145	14-Oct-06	-41		203
24-Apr-06	-41.4		30	21-Jun-06	-41.4		88	18-Aug-06	-41.2		146	15-Oct-06	-41.1		204
25-Apr-06	-41.4		31	22-Jun-06	-41.4		89	19-Aug-06	-41.1		147	16-Oct-06	-41.1		205
26-Apr-06	-41.4		32	23-Jun-06	-41.4		90	20-Aug-06	-41.2		148	17-Oct-06	-41.1		206
27-Apr-06	-41.4		33	24-Jun-06	-41.4		91	21-Aug-06	-41.2		149	18-Oct-06	-41		207
28-Apr-06	-41.4		34	25-Jun-06	-41.4		92	22-Aug-06	-41.2		150	19-Oct-06	-41		208
29-Apr-06	-41.4		35	26-Jun-06	-41.4		93	23-Aug-06	-41.2		151	20-Oct-06	-41		209
30-Apr-06	-41.4		36	27-Jun-06	-41.4		94	24-Aug-06	-41.2		152	21-Oct-06	-41		210
1-May-06	-41.4		37	28-Jun-06	-41.4		95	25-Aug-06	-41.2		153	22-Oct-06	-41.1		211
2-May-06	-41.3		38	29-Jun-06	-41.4		96	26-Aug-06	-41.1		154	23-Oct-06	-41.1		212
3-May-06	-41.4		39	30-Jun-06	-41.4		97	27-Aug-06	-41.1		155	24-Oct-06	-41.1		213
4-May-06	-41.3		40	1-Jul-06	-41.4		98	28-Aug-06	-41.1		156	25-Oct-06	-41.1		214
5-May-06	-41.4		41	2-Jul-06	-41.4		99	29-Aug-06	-41.1		157	26-Oct-06	-41.1		215
6-May-06	-41.3		42	3-Jul-06	-41.4		100	30-Aug-06	-41.2		158	27-Oct-06	-41.1		216
7-May-06	-41.4		43	4-Jul-06	-41.4		101	31-Aug-06	-41.1		159	28-Oct-06	-41.1		217
8-May-06	-41.4		44	5-Jul-06	-41.1		102	1-Sep-06	-41.2		160	29-Oct-06	-41.1		218
9-May-06	-41.4		45	6-Jul-06	-22.2		103	2-Sep-06	-41.1		161	30-Oct-06	-41.1		219
10-May-06	-41.4		46	7-Jul-06	-41.1		104	3-Sep-06	-41.1		162	31-Oct-06	-41.1		220
11-May-06	-41.4		47	8-Jul-06	-41.1		105	4-Sep-06	-41.1		163	1-Nov-06	-41.1		221
12-May-06	-41.4		48	9-Jul-06	-41.1		106	5-Sep-06	-41.2		164	2-Nov-06	-41.1		222

River Bend 13
Data Installed : March 16, 2006
Serial Number: 9DE777E
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06	-41.1		223	30-Dec-06	-41.2										
4-Nov-06	-41.1		224	31-Dec-06	-41.1										
5-Nov-06	-41.2			1-Jan-07	-41.1										
6-Nov-06	-41.2			2-Jan-07	0.7										
7-Nov-06	-41.1			3-Jan-07	3.5										
8-Nov-06	-41.1			4-Jan-07	3.1										
9-Nov-06	-41.1			5-Jan-07	-2.2										
10-Nov-06	-41.1			6-Jan-07	-6.2										
11-Nov-06	-41.1			7-Jan-07	-11.4										
12-Nov-06	-41.1			8-Jan-07	-4.9										
13-Nov-06	-41.1			9-Jan-07	-6.5										
14-Nov-06	-41.1			10-Jan-07	-12.5										
15-Nov-06	-41.1			11-Jan-07	-17										
16-Nov-06	-41.1			12-Jan-07	-19.1										
17-Nov-06	-41.1			13-Jan-07	-21.1										
18-Nov-06	-41.1			14-Jan-07	-23.3										
19-Nov-06	-41.1			15-Jan-07	-24.2										
20-Nov-06	-41.1			16-Jan-07	-25.9										
21-Nov-06	-41.1			17-Jan-07	-29.9										
22-Nov-06	-41.1			18-Jan-07	-29.4										
23-Nov-06	-41.1			19-Jan-07	-28										
24-Nov-06	-41.1			20-Jan-07	-30.3										
25-Nov-06	-41.1			21-Jan-07	-31.6										
26-Nov-06	-41.1			22-Jan-07	-27										
27-Nov-06	-41.1			23-Jan-07	-24.9										
28-Nov-06	-41.1			24-Jan-07	-26.1										
29-Nov-06	-41.1			25-Jan-07	-26.5										
30-Nov-06	-41.1			26-Jan-07	-28.9										
1-Dec-06	-41			27-Jan-07	-28.5										
2-Dec-06	-41.1			28-Jan-07	-28.1										
3-Dec-06	-41.1			29-Jan-07	-31.8										
4-Dec-06	-41.1			30-Jan-07	-31.8										
5-Dec-06	-41.1			31-Jan-07	-33.1										
6-Dec-06	-41.2			1-Feb-07	-32.8										
7-Dec-06	-41.2			2-Feb-07	-32.3										
8-Dec-06	-41.2			3-Feb-07	-34.9										
9-Dec-06	-41.2			4-Feb-07	-35.5										
10-Dec-06	-41.2			5-Feb-07	-36.1										
11-Dec-06	-41.2			6-Feb-07	-36.8										
12-Dec-06	-41.2			7-Feb-07	-35.5										
13-Dec-06	-41.1			8-Feb-07	-37.1										
14-Dec-06	-41.1			9-Feb-07	-37.6										
15-Dec-06	-41.1			10-Feb-07	-38.1										
16-Dec-06	-41.2			11-Feb-07	-39										
17-Dec-06	-41.2			12-Feb-07	-39										
18-Dec-06	-41.2			13-Feb-07	-39.2										
19-Dec-06	-41.2			14-Feb-07	-24.4										
20-Dec-06	-41.2			15-Feb-07	-14.6										
21-Dec-06	-41.2			16-Feb-07	-18.1										
22-Dec-06	-41.1			17-Feb-07	-21.6										
23-Dec-06	-41.1			18-Feb-07	-24.6										
24-Dec-06	-41.1			19-Feb-07	-28.7										
25-Dec-06	-41.1			20-Feb-07	-28.9										
26-Dec-06	-41.1														
27-Dec-06	-41.2														
28-Dec-06	-41.2														
29-Dec-06	-41.2														

River Bend 14
Data Installed : March 16, 2006
Serial Number: 9DE52AA
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06				13-May-06	-41.3		49	10-Jul-06	-40.9		107	6-Sep-06	-40.8		165
17-Mar-06	-41.4			14-May-06	-41.3		50	11-Jul-06	-40.8		108	7-Sep-06	-40.9		166
18-Mar-06	-41.4			15-May-06	-41.3		51	12-Jul-06	-40.8		109	8-Sep-06	-40.9		167
19-Mar-06	-41.4			16-May-06	-41.3		52	13-Jul-06	-40.8		110	9-Sep-06	-41		168
20-Mar-06	-41.4			17-May-06	-41.3		53	14-Jul-06	-40.8		111	10-Sep-06	-40.9		169
21-Mar-06	-41.4			18-May-06	-41.3		54	15-Jul-06	-40.8		112	11-Sep-06	-40.9		170
22-Mar-06	-41.4			19-May-06	-41.3		55	16-Jul-06	-40.9		113	12-Sep-06	-40.9		171
23-Mar-06	-41.4			20-May-06	-41.3		56	17-Jul-06	-40.9		114	13-Sep-06	-40.9		172
24-Mar-06	-41.4			21-May-06	-41.2		57	18-Jul-06	-40.9		115	14-Sep-06	-35.1		173
25-Mar-06	-41.3			22-May-06	-41.3		58	19-Jul-06	-40.9		116	15-Sep-06	-40.7		174
26-Mar-06	-41.4		1	23-May-06	-41.3		59	20-Jul-06	-40.9		117	16-Sep-06	-40.7		175
27-Mar-06	-41.4		2	24-May-06	-41.3		60	21-Jul-06	-40.9		118	17-Sep-06	-40.7		176
28-Mar-06	-41.4		3	25-May-06	-41.2		61	22-Jul-06	-41		119	18-Sep-06	-40.7		177
29-Mar-06	-41.3		4	26-May-06	-41.2		62	23-Jul-06	-41		120	19-Sep-06	-40.7		178
30-Mar-06	-41.3		5	27-May-06	-41.2		63	24-Jul-06	-41		121	20-Sep-06	-40.8		179
31-Mar-06	-41.3		6	28-May-06	-41.2		64	25-Jul-06	-41		122	21-Sep-06	-40.7		180
1-Apr-06	-41.3		7	29-May-06	-41.2		65	26-Jul-06	-27		123	22-Sep-06	-40.7		181
2-Apr-06	-41.3		8	30-May-06	-41.2		66	27-Jul-06	-40.8		124	23-Sep-06	-40.6		182
3-Apr-06	-41.3		9	31-May-06	-41.2		67	28-Jul-06	-40.8		125	24-Sep-06	-40.6		183
4-Apr-06	-41.3		10	1-Jun-06	-41.2		68	29-Jul-06	-40.9		126	25-Sep-06	-40.7		184
5-Apr-06	-41.3		11	2-Jun-06	-41.2		69	30-Jul-06	-40.9		127	26-Sep-06	-40.7		185
6-Apr-06	-41.4		12	3-Jun-06	-41.2		70	31-Jul-06	-40.9		128	27-Sep-06	-40.7		186
7-Apr-06	-41.3		13	4-Jun-06	-41.2		71	1-Aug-06	-40.9		129	28-Sep-06	-40.7		187
8-Apr-06	-41.4		14	5-Jun-06	-41.2		72	2-Aug-06	-40.9		130	29-Sep-06	-40.8		188
9-Apr-06	-41.4		15	6-Jun-06	-41.2		73	3-Aug-06	-40.9		131	30-Sep-06	-40.8		189
10-Apr-06	-41.4		16	7-Jun-06	-41.2		74	4-Aug-06	-40.9		132	1-Oct-06	-40.7		190
11-Apr-06	-41.4		17	8-Jun-06	-41.2		75	5-Aug-06	-40.9		133	2-Oct-06	-40.7		191
12-Apr-06	-41.4		18	9-Jun-06	-41.2		76	6-Aug-06	-40.9		134	3-Oct-06	-40.8		192
13-Apr-06	-41.3		19	10-Jun-06	-41.2		77	7-Aug-06	-40.9		135	4-Oct-06	-40.7		193
14-Apr-06	-41.4		20	11-Jun-06	-41.1		78	8-Aug-06	-41		136	5-Oct-06	-40.7		194
15-Apr-06	-41.3		21	12-Jun-06	-41.2		79	9-Aug-06	-41		137	6-Oct-06	-1.8	1	195
16-Apr-06	-41.3		22	13-Jun-06	-41.2		80	10-Aug-06	-41		138	7-Oct-06	-4.8	2	196
17-Apr-06	-41.3		23	14-Jun-06	-41.2		81	11-Aug-06	-41		139	8-Oct-06	-9.3	3	197
18-Apr-06	-41.3		24	15-Jun-06	-41.2		82	12-Aug-06	-40.9		140	9-Oct-06	-21.7		198
19-Apr-06	-41.3		25	16-Jun-06	-41.2		83	13-Aug-06	-40.9		141	10-Oct-06	-30		199
20-Apr-06	-41.3		26	17-Jun-06	-41.2		84	14-Aug-06	-40.9		142	11-Oct-06	-36.5		200
21-Apr-06	-41.3		27	18-Jun-06	-41.2		85	15-Aug-06	-41		143	12-Oct-06	-40.6		201
22-Apr-06	-41.3		28	19-Jun-06	-41.2		86	16-Aug-06	-40.9		144	13-Oct-06	-40.7		202
23-Apr-06	-41.3		29	20-Jun-06	-41.1		87	17-Aug-06	-41		145	14-Oct-06	-40.7		203
24-Apr-06	-41.3		30	21-Jun-06	-41.2		88	18-Aug-06	-41		146	15-Oct-06	-40.8		204
25-Apr-06	-41.3		31	22-Jun-06	-41.2		89	19-Aug-06	-40.9		147	16-Oct-06	-40.8		205
26-Apr-06	-41.3		32	23-Jun-06	-41.1		90	20-Aug-06	-40.9		148	17-Oct-06	-40.7		206
27-Apr-06	-41.3		33	24-Jun-06	-41.1		91	21-Aug-06	-40.9		149	18-Oct-06	-40.7		207
28-Apr-06	-41.3		34	25-Jun-06	-41.1		92	22-Aug-06	-41		150	19-Oct-06	-40.7		208
29-Apr-06	-41.3		35	26-Jun-06	-41.1		93	23-Aug-06	-41		151	20-Oct-06	-40.7		209
30-Apr-06	-41.3		36	27-Jun-06	-41.1		94	24-Aug-06	-41		152	21-Oct-06	-40.7		210
1-May-06	-41.3		37	28-Jun-06	-41.1		95	25-Aug-06	-41		153	22-Oct-06	-40.7		211
2-May-06	-41.3		38	29-Jun-06	-41.1		96	26-Aug-06	-41		154	23-Oct-06	-40.8		212
3-May-06	-41.3		39	30-Jun-06	-41.1		97	27-Aug-06	-41		155	24-Oct-06	-40.8		213
4-May-06	-41.3		40	1-Jul-06	-41.2		98	28-Aug-06	-41		156	25-Oct-06	-40.8		214
5-May-06	-41.3		41	2-Jul-06	-41.1		99	29-Aug-06	-40.9		157	26-Oct-06	-40.9		215
6-May-06	-41.3		42	3-Jul-06	-41.1		100	30-Aug-06	-41		158	27-Oct-06	-40.7		216
7-May-06	-41.3		43	4-Jul-06	-41.1		101	31-Aug-06	-41		159	28-Oct-06	-34.8		217
8-May-06	-41.3		44	5-Jul-06	-41		102	1-Sep-06	-41		160	29-Oct-06	-33.4		218
9-May-06	-41.3		45	6-Jul-06	-4.4	1	103	2-Sep-06	-40.9		161	30-Oct-06	-37.8		219
10-May-06	-41.3		46	7-Jul-06	-35.1		104	3-Sep-06	-40.9		162	31-Oct-06	-40.7		220
11-May-06	-41.3		47	8-Jul-06	-40.8		105	4-Sep-06	-40.8		163	1-Nov-06	-40.7		221
12-May-06	-41.3		48	9-Jul-06	-40.9		106	5-Sep-06	-40.9		164	2-Nov-06	-40.7		222

River Bend 14
Data Installed : March 16, 2006
Serial Number: 9DE52AA
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06	-40.9		223	30-Dec-06	-31.2										
4-Nov-06	-40.9		224	31-Dec-06	-33.2										
5-Nov-06	-40.9			1-Jan-07	-25.2										
6-Nov-06	-40.9			2-Jan-07	-0.1										
7-Nov-06	-40.8			3-Jan-07	0.9										
8-Nov-06	-7.9			4-Jan-07	-7.9										
9-Nov-06	-19			5-Jan-07	-16.7										
10-Nov-06	-24.9			6-Jan-07	-18.5										
11-Nov-06	-29.2			7-Jan-07	-23.1										
12-Nov-06	-31			8-Jan-07	-17.4										
13-Nov-06	-22.1			9-Jan-07	-18.5										
14-Nov-06	-26.8			10-Jan-07	-24.2										
15-Nov-06	-30.5			11-Jan-07	-28.4										
16-Nov-06	-32.9			12-Jan-07	-31.6										
17-Nov-06	-21.1			13-Jan-07	-33.8										
18-Nov-06	-27.3			14-Jan-07	-36										
19-Nov-06	-31			15-Jan-07	-37.9										
20-Nov-06	-34			16-Jan-07	-40.1										
21-Nov-06	-36.8			17-Jan-07	-40.8										
22-Nov-06	-36.8			18-Jan-07	-40.7										
23-Nov-06	-16.2			19-Jan-07	-40.7										
24-Nov-06	-21.2			20-Jan-07	-40.8										
25-Nov-06	-26.8			21-Jan-07	-40.8										
26-Nov-06	-30.9			22-Jan-07	-40.7										
27-Nov-06	-34.1			23-Jan-07	-40.7										
28-Nov-06	-36.8			24-Jan-07	-40.8										
29-Nov-06	-38.8			25-Jan-07	-40.8										
30-Nov-06	-40.6			26-Jan-07	-40.8										
1-Dec-06	-40.6			27-Jan-07	-40.8										
2-Dec-06	-40.7			28-Jan-07	-40.7										
3-Dec-06	-40.7			29-Jan-07	-40.9										
4-Dec-06	-40.7			30-Jan-07	-40.8										
5-Dec-06	-40.8			31-Jan-07	-40.9										
6-Dec-06	-40.8			1-Feb-07	-40.8										
7-Dec-06	-40.8			2-Feb-07	-40.7										
8-Dec-06	-40.8			3-Feb-07	-40.9										
9-Dec-06	-40.9			4-Feb-07	-40.9										
10-Dec-06	-40.9			5-Feb-07	-40.9										
11-Dec-06	-40.8			6-Feb-07	-40.9										
12-Dec-06	-40.8			7-Feb-07	-40.8										
13-Dec-06	-40.8			8-Feb-07	-40.8										
14-Dec-06	-40.7			9-Feb-07	-40.8										
15-Dec-06	-40.7			10-Feb-07	-40.9										
16-Dec-06	-40.8			11-Feb-07	-40.9										
17-Dec-06	-40.8			12-Feb-07	-40.9										
18-Dec-06	-40.8			13-Feb-07	-40.8										
19-Dec-06	-40.8			14-Feb-07	-29.3										
20-Dec-06	-40.8			15-Feb-07	-20										
21-Dec-06	-40.8			16-Feb-07	-24.1										
22-Dec-06	-40.7			17-Feb-07	-26.9										
23-Dec-06	-40.7			18-Feb-07	-29										
24-Dec-06	-40.8			19-Feb-07	-31.3										
25-Dec-06	-40.7			20-Feb-07	-32.9										
26-Dec-06	-9.8														
27-Dec-06	-20.1														
28-Dec-06	-25														
29-Dec-06	-28.5														

River Bend 15
Data Installed : March 16, 2006
Serial Number: A28C5D9
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06				13-May-06	-32.2		49	10-Jul-06	-41.1		107	6-Sep-06	-40.9		165
17-Mar-06	-18.3			14-May-06	-33.5		50	11-Jul-06	-40.9		108	7-Sep-06	-41		166
18-Mar-06	-19.2			15-May-06	-33.9		51	12-Jul-06	-40.9		109	8-Sep-06	-40.9		167
19-Mar-06	-19.4			16-May-06	-33.8		52	13-Jul-06	-41		110	9-Sep-06	-41		168
20-Mar-06	-19.4			17-May-06	-33.7		53	14-Jul-06	-41		111	10-Sep-06	-41		169
21-Mar-06	-13.7			18-May-06	-34.1		54	15-Jul-06	-40.9		112	11-Sep-06	-41		170
22-Mar-06	-15.7			19-May-06	-35.3		55	16-Jul-06	-41		113	12-Sep-06	-40.8		171
23-Mar-06	-16.9			20-May-06	-36.4		56	17-Jul-06	-41.1		114	13-Sep-06	-40.7		172
24-Mar-06	-16.6			21-May-06	-37.7		57	18-Jul-06	-40.9		115	14-Sep-06	-40.6		173
25-Mar-06	-16.3			22-May-06	-39		58	19-Jul-06	-41		116	15-Sep-06	-40.6		174
26-Mar-06	-16.8		1	23-May-06	-41.2		59	20-Jul-06	-40.9		117	16-Sep-06	-40.5		175
27-Mar-06	-17.8		2	24-May-06	-41.2		60	21-Jul-06	-40.9		118	17-Sep-06	-40.4		176
28-Mar-06	-17.8		3	25-May-06	-41.2		61	22-Jul-06	-40.9		119	18-Sep-06	-40.4		177
29-Mar-06	-17.9		4	26-May-06	-41.2		62	23-Jul-06	-40.8		120	19-Sep-06	-40.4		178
30-Mar-06	-18.5		5	27-May-06	-41.2		63	24-Jul-06	-40.9		121	20-Sep-06	-40.3		179
31-Mar-06	-18.6		6	28-May-06	-41.3		64	25-Jul-06	-40.9		122	21-Sep-06	-40.4		180
1-Apr-06	-18.1		7	29-May-06	-41.3		65	26-Jul-06	-40.9		123	22-Sep-06	-40.3		181
2-Apr-06	-19.2		8	30-May-06	-41.3		66	27-Jul-06	-31.6		124	23-Sep-06	-40.3		182
3-Apr-06	-16		9	31-May-06	-41.4		67	28-Jul-06	-31.9		125	24-Sep-06	-40.3		183
4-Apr-06	-17.2		10	1-Jun-06	-41.4		68	29-Jul-06	-35.4		126	25-Sep-06	-40.4		184
5-Apr-06	-17.5		11	2-Jun-06	-41.4		69	30-Jul-06	-34.6		127	26-Sep-06	-40.4		185
6-Apr-06	-18.8		12	3-Jun-06	-41.4		70	31-Jul-06	-36.8		128	27-Sep-06	-40.4		186
7-Apr-06	-18.9		13	4-Jun-06	-41.5		71	1-Aug-06	-38.5		129	28-Sep-06	-40.5		187
8-Apr-06	-19.4		14	5-Jun-06	-41.5		72	2-Aug-06	-40.9		130	29-Sep-06	-40.3		188
9-Apr-06	-17.9		15	6-Jun-06	-41.5		73	3-Aug-06	-40.9		131	30-Sep-06	-40.5		189
10-Apr-06	-19.1		16	7-Jun-06	-41.5		74	4-Aug-06	-40.9		132	1-Oct-06	-40.4		190
11-Apr-06	-19.9		17	8-Jun-06	-41.5		75	5-Aug-06	-40.9		133	2-Oct-06	-40.3		191
12-Apr-06	-20.4		18	9-Jun-06	-41.5		76	6-Aug-06	-40.8		134	3-Oct-06	-40.3		192
13-Apr-06	-20.6		19	10-Jun-06	-41.5		77	7-Aug-06	-40.7		135	4-Oct-06	-40.4		193
14-Apr-06	-21.1		20	11-Jun-06	-41.5		78	8-Aug-06	-40.7		136	5-Oct-06	-40.3		194
15-Apr-06	-21.2		21	12-Jun-06	-41.5		79	9-Aug-06	-40.7		137	6-Oct-06	-36		195
16-Apr-06	-22.4		22	13-Jun-06	-41.5		80	10-Aug-06	-40.7		138	7-Oct-06	-34.4		196
17-Apr-06	-22.9		23	14-Jun-06	-41.5		81	11-Aug-06	-40.6		139	8-Oct-06	-35		197
18-Apr-06	-23.1		24	15-Jun-06	-41.5		82	12-Aug-06	-40.6		140	9-Oct-06	-37		198
19-Apr-06	-23.6		25	16-Jun-06	-41.5		83	13-Aug-06	-40.6		141	10-Oct-06	-38.6		199
20-Apr-06	-24.4		26	17-Jun-06	-41.5		84	14-Aug-06	-40.7		142	11-Oct-06	-39.8		200
21-Apr-06	-25.4		27	18-Jun-06	-41.5		85	15-Aug-06	-40.7		143	12-Oct-06	-39.5		201
22-Apr-06	-25.3		28	19-Jun-06	-41.4		86	16-Aug-06	-40.6		144	13-Oct-06	-39.4		202
23-Apr-06	-17		29	20-Jun-06	-41.4		87	17-Aug-06	-40.7		145	14-Oct-06	-39.3		203
24-Apr-06	-18.9		30	21-Jun-06	-41.4		88	18-Aug-06	-40.7		146	15-Oct-06	-39.4		204
25-Apr-06	-20.7		31	22-Jun-06	-41.4		89	19-Aug-06	-40.7		147	16-Oct-06	-39.4		205
26-Apr-06	-21.9		32	23-Jun-06	-41.3		90	20-Aug-06	-40.7		148	17-Oct-06	-39		206
27-Apr-06	-21.4		33	24-Jun-06	-41.2		91	21-Aug-06	-40.8		149	18-Oct-06	-38.8		207
28-Apr-06	-20.9		34	25-Jun-06	-41.3		92	22-Aug-06	-40.8		150	19-Oct-06	-33.2		208
29-Apr-06	-23.3		35	26-Jun-06	-41.2		93	23-Aug-06	-40.8		151	20-Oct-06	-29.6		209
30-Apr-06	-24.6		36	27-Jun-06	-41.2		94	24-Aug-06	-40.8		152	21-Oct-06	-29.6		210
1-May-06	-25.5		37	28-Jun-06	-41.1		95	25-Aug-06	-40.9		153	22-Oct-06	-27.9		211
2-May-06	-26.7		38	29-Jun-06	-41		96	26-Aug-06	-41		154	23-Oct-06	-26.7		212
3-May-06	-27.9		39	30-Jun-06	-41		97	27-Aug-06	-41		155	24-Oct-06	-26.9		213
4-May-06	-29.2		40	1-Jul-06	-40.9		98	28-Aug-06	-41.1		156	25-Oct-06	-27.2		214
5-May-06	-30.4		41	2-Jul-06	-40.9		99	29-Aug-06	-41.1		157	26-Oct-06	-27.1		215
6-May-06	-31.2		42	3-Jul-06	-40.9		100	30-Aug-06	-41.1		158	27-Oct-06	-26.5		216
7-May-06	-33		43	4-Jul-06	-40.9		101	31-Aug-06	-41		159	28-Oct-06	-12.4		217
8-May-06	-31.1		44	5-Jul-06	-40.8		102	1-Sep-06	-41		160	29-Oct-06	-14.5		218
9-May-06	-28.5		45	6-Jul-06	-36.4		103	2-Sep-06	-41		161	30-Oct-06	-16.2		219
10-May-06	-28.6		46	7-Jul-06	-35.5		104	3-Sep-06	-41		162	31-Oct-06	-16.7		220
11-May-06	-29.4		47	8-Jul-06	-38.9		105	4-Sep-06	-40.9		163	1-Nov-06	-17.2		221
12-May-06	-30.6		48	9-Jul-06	-41.1		106	5-Sep-06	-40.9		164	2-Nov-06	-17.6		222

River Bend 15
Data Installed : March 16, 2006
Serial Number: A28C5D9
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06	-19.7		223	30-Dec-06	-9.6										
4-Nov-06	-20.5		224	31-Dec-06	-8.5										
5-Nov-06	-20.7			1-Jan-07	-1.3										
6-Nov-06	-20.7			2-Jan-07	3.7										
7-Nov-06	-19.9			3-Jan-07	3.5										
8-Nov-06	-3.7			4-Jan-07	-3.3										
9-Nov-06	-6.6			5-Jan-07	-4										
10-Nov-06	-8.3			6-Jan-07	-4.9										
11-Nov-06	-9.2			7-Jan-07	-6.7										
12-Nov-06	-3.3			8-Jan-07	-1.6										
13-Nov-06	-6			9-Jan-07	-4.9										
14-Nov-06	-7			10-Jan-07	-6.7										
15-Nov-06	-8.2			11-Jan-07	-7.7										
16-Nov-06	-2.5			12-Jan-07	-7.7										
17-Nov-06	5.7			13-Jan-07	-7.5										
18-Nov-06	-3.1			14-Jan-07	-7.7										
19-Nov-06	-5.7			15-Jan-07	-7.7										
20-Nov-06	-7.1			16-Jan-07	-8.4										
21-Nov-06	-8.4			17-Jan-07	-10.8										
22-Nov-06	-2.6			18-Jan-07	-10.7										
23-Nov-06	3.3			19-Jan-07	-8.6										
24-Nov-06	-4.6			20-Jan-07	-10.3										
25-Nov-06	-6.5			21-Jan-07	-11.4										
26-Nov-06	-7.4			22-Jan-07	-6.6										
27-Nov-06	-7.9			23-Jan-07	-7.3										
28-Nov-06	-8.3			24-Jan-07	-8.7										
29-Nov-06	-8.5			25-Jan-07	-9										
30-Nov-06	-8.5			26-Jan-07	-10.7										
1-Dec-06	-6			27-Jan-07	-10.3										
2-Dec-06	-8.6			28-Jan-07	-9.9										
3-Dec-06	-9.5			29-Jan-07	-12.5										
4-Dec-06	-9.9			30-Jan-07	-12.4										
5-Dec-06	-10.6			31-Jan-07	-13										
6-Dec-06	-11.1			1-Feb-07	-12.1										
7-Dec-06	-10.3			2-Feb-07	-8.8										
8-Dec-06	-12.4			3-Feb-07	-11.2										
9-Dec-06	-12.8			4-Feb-07	-12.2										
10-Dec-06	-12.7			5-Feb-07	-13.1										
11-Dec-06	-12.6			6-Feb-07	-14.2										
12-Dec-06	-12.9			7-Feb-07	-11.2										
13-Dec-06	-12.1			8-Feb-07	-12.5										
14-Dec-06	-10.6			9-Feb-07	-13.5										
15-Dec-06	-10.7			10-Feb-07	-13.5										
16-Dec-06	-12.5			11-Feb-07	-14.6										
17-Dec-06	-13			12-Feb-07	-14										
18-Dec-06	-12.9			13-Feb-07	-12.9										
19-Dec-06	-12.9			14-Feb-07	-2.9										
20-Dec-06	-13.9			15-Feb-07	-6.3										
21-Dec-06	-13.3			16-Feb-07	-7.7										
22-Dec-06	-12.4			17-Feb-07	-8.8										
23-Dec-06	-6.4			18-Feb-07	-8.9										
24-Dec-06	-8.7			19-Feb-07	-11.1										
25-Dec-06	-8.8			20-Feb-07	-9.8										
26-Dec-06	-4.2														
27-Dec-06	-7														
28-Dec-06	-8.5														
29-Dec-06	-9.3														

River Bend 16
Data Installed : March 16, 2006
Serial Number: 9BEA4F1
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06				13-May-06	-19.5		49	10-Jul-06	-32.2		107	6-Sep-06	-32.6		165
17-Mar-06	-2.4			14-May-06	-21.4		50	11-Jul-06	-32.3		108	7-Sep-06	-32.7		166
18-Mar-06	-3.6			15-May-06	-21.4		51	12-Jul-06	-32.2		109	8-Sep-06	-32.7		167
19-Mar-06	-3.9			16-May-06	-20		52	13-Jul-06	-32.2		110	9-Sep-06	-32.7		168
20-Mar-06	-3.9			17-May-06	-20.5		53	14-Jul-06	-32.2		111	10-Sep-06	-32.8		169
21-Mar-06	0.9			18-May-06	-22.5		54	15-Jul-06	-32.2		112	11-Sep-06	-32.8		170
22-Mar-06	-0.1			19-May-06	-23.8		55	16-Jul-06	-32.2		113	12-Sep-06	-32.8		171
23-Mar-06	-1.2			20-May-06	-25.3		56	17-Jul-06	-32.2		114	13-Sep-06	-32.8		172
24-Mar-06	-1			21-May-06	-26.7		57	18-Jul-06	-32.3		115	14-Sep-06	-32.8		173
25-Mar-06	-0.1			22-May-06	-28.3		58	19-Jul-06	-32.3		116	15-Sep-06	-16.8		174
26-Mar-06	-1.1	1	1	23-May-06	-29.5		59	20-Jul-06	-32.2		117	16-Sep-06	-31.5		175
27-Mar-06	-1.9	2	2	24-May-06	-30.1		60	21-Jul-06	-32.2		118	17-Sep-06	-31.8		176
28-Mar-06	-1.7	3	3	25-May-06	-30.5		61	22-Jul-06	-32.2		119	18-Sep-06	-31.9		177
29-Mar-06	-2	4	4	26-May-06	-30.8		62	23-Jul-06	-32.2		120	19-Sep-06	-31.9		178
30-Mar-06	-2.9	5	5	27-May-06	-31		63	24-Jul-06	-32.2		121	20-Sep-06	-31.9		179
31-Mar-06	-3.1	6	6	28-May-06	-31.1		64	25-Jul-06	-32.2		122	21-Sep-06	-31.9		180
1-Apr-06	-2.7	7	7	29-May-06	-31.2		65	26-Jul-06	-9.2	1	123	22-Sep-06	-31.9		181
2-Apr-06	-3.5	8	8	30-May-06	-31.2		66	27-Jul-06	-24.2		124	23-Sep-06	-32		182
3-Apr-06	0.9	9	9	31-May-06	-31.2		67	28-Jul-06	-30.7		125	24-Sep-06	-32		183
4-Apr-06	-1.1	10	10	1-Jun-06	-31.3		68	29-Jul-06	-31.8		126	25-Sep-06	-31.8		184
5-Apr-06	-2.1	11	11	2-Jun-06	-31.7		69	30-Jul-06	-31.9		127	26-Sep-06	-31.9		185
6-Apr-06	-3.5	12	12	3-Jun-06	-32.1		70	31-Jul-06	-32		128	27-Sep-06	-31.9		186
7-Apr-06	-3.5	13	13	4-Jun-06	-32.2		71	1-Aug-06	-32		129	28-Sep-06	-32		187
8-Apr-06	-3.3	14	14	5-Jun-06	-32.2		72	2-Aug-06	-32		130	29-Sep-06	-32		188
9-Apr-06	-1.7	15	15	6-Jun-06	-32.2		73	3-Aug-06	-32		131	30-Sep-06	-32		189
10-Apr-06	-3.6	16	16	7-Jun-06	-32.2		74	4-Aug-06	-32.1		132	1-Oct-06	-32.1		190
11-Apr-06	-4.3	17	17	8-Jun-06	-32.3		75	5-Aug-06	-32.2		133	2-Oct-06	-32.2		191
12-Apr-06	-4.8	18	18	9-Jun-06	-32.2		76	6-Aug-06	-32.2		134	3-Oct-06	-32.2		192
13-Apr-06	-5.1	19	19	10-Jun-06	-32.3		77	7-Aug-06	-32.2		135	4-Oct-06	-32.2		193
14-Apr-06	-5.6	20	20	11-Jun-06	-32.3		78	8-Aug-06	-32.2		136	5-Oct-06	-32.2		194
15-Apr-06	-5.6	21	21	12-Jun-06	-32.3		79	9-Aug-06	-32.2		137	6-Oct-06	2.4	1	195
16-Apr-06	-6.8	22	22	13-Jun-06	-32.3		80	10-Aug-06	-32.2		138	7-Oct-06	-2.9	2	196
17-Apr-06	-7.8	23	23	14-Jun-06	-32.3		81	11-Aug-06	-32.2		139	8-Oct-06	-3.2	3	197
18-Apr-06	-7.9	24	24	15-Jun-06	-32.4		82	12-Aug-06	-32.2		140	9-Oct-06	-7.5	4	198
19-Apr-06	-8.8	25	25	16-Jun-06	-32.4		83	13-Aug-06	-32.2		141	10-Oct-06	-9.7	5	199
20-Apr-06	-9.4	26	26	17-Jun-06	-32.4		84	14-Aug-06	-32.2		142	11-Oct-06	-12.2		200
21-Apr-06	-10.3	27	27	18-Jun-06	-32.4		85	15-Aug-06	-32.2		143	12-Oct-06	-12.5		201
22-Apr-06	-6	28	28	19-Jun-06	-32.4		86	16-Aug-06	-32.3		144	13-Oct-06	-16		202
23-Apr-06	-0.5	29	29	20-Jun-06	-32.4		87	17-Aug-06	-32.4		145	14-Oct-06	-17.4		203
24-Apr-06	-3.4	30	30	21-Jun-06	-32.4		88	18-Aug-06	-32.5		146	15-Oct-06	-18.8		204
25-Apr-06	-4.8	31	31	22-Jun-06	-32.4		89	19-Aug-06	-32.4		147	16-Oct-06	-19.5		205
26-Apr-06	-5.2	32	32	23-Jun-06	-32.4		90	20-Aug-06	-32.4		148	17-Oct-06	-18.8		206
27-Apr-06	-3.5	33	33	24-Jun-06	-32.4		91	21-Aug-06	-32.5		149	18-Oct-06	-8.4	1	207
28-Apr-06	-5.1	34	34	25-Jun-06	-32.4		92	22-Aug-06	-32.5		150	19-Oct-06	-8.7	2	208
29-Apr-06	-7.8	35	35	26-Jun-06	-32.4		93	23-Aug-06	-32.5		151	20-Oct-06	-7.9	3	209
30-Apr-06	-9.5	36	36	27-Jun-06	-32.4		94	24-Aug-06	-32.5		152	21-Oct-06	-11.5	4	210
1-May-06	-11	37	37	28-Jun-06	-32.4		95	25-Aug-06	-32.5		153	22-Oct-06	-11.8	5	211
2-May-06	-12.1		38	29-Jun-06	-32.4		96	26-Aug-06	-32.6		154	23-Oct-06	-10.6	6	212
3-May-06	-13.3		39	30-Jun-06	-32.4		97	27-Aug-06	-32.6		155	24-Oct-06	-12.2		213
4-May-06	-15.2		40	1-Jul-06	-32.4		98	28-Aug-06	-32.6		156	25-Oct-06	-13.4		214
5-May-06	-17.1		41	2-Jul-06	-32.4		99	29-Aug-06	-32.6		157	26-Oct-06	-13.8		215
6-May-06	-18.3		42	3-Jul-06	-32.4		100	30-Aug-06	-32.6		158	27-Oct-06	-13.4		216
7-May-06	-20.7		43	4-Jul-06	-32.4		101	31-Aug-06	-32.5		159	28-Oct-06	0.9	1	217
8-May-06	-12.5		44	5-Jul-06	-32.3		102	1-Sep-06	-32.6		160	29-Oct-06	-3.1	2	218
9-May-06	-12.7		45	6-Jul-06	-32.4		103	2-Sep-06	-32.5		161	30-Oct-06	-4.2	3	219
10-May-06	-14.1		46	7-Jul-06	-32.3		104	3-Sep-06	-32.6		162	31-Oct-06	-4	4	220
11-May-06	-15.2		47	8-Jul-06	-32.3		105	4-Sep-06	-32.6		163	1-Nov-06	-4.4	5	221
12-May-06	-17.1		48	9-Jul-06	-32.2		106	5-Sep-06	-32.6		164	2-Nov-06	-4.5	6	222

River Bend 16
Data Installed : March 16, 2006
Serial Number: 9BEA4F1
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06	-6.7	7	223	30-Dec-06	3.5										
4-Nov-06	-7.6	8	224	31-Dec-06	3.8										
5-Nov-06	-7.7			1-Jan-07	4.1										
6-Nov-06	-7.7			2-Jan-07	7										
7-Nov-06	-6.5			3-Jan-07	6.9										
8-Nov-06	4.2			4-Jan-07	6.3										
9-Nov-06	3.9			5-Jan-07	4.4										
10-Nov-06	2.7			6-Jan-07	4.4										
11-Nov-06	2.4			7-Jan-07	4.2										
12-Nov-06	4.2			8-Jan-07	4.4										
13-Nov-06	4.1			9-Jan-07	5.3										
14-Nov-06	4			10-Jan-07	5.3										
15-Nov-06	3.4			11-Jan-07	5.2										
16-Nov-06	4.3			12-Jan-07	5.3										
17-Nov-06	5.7			13-Jan-07	5.4										
18-Nov-06	5.7			14-Jan-07	5.5										
19-Nov-06	5.6			15-Jan-07	5.7										
20-Nov-06	5.5			16-Jan-07	5.9										
21-Nov-06	5.5			17-Jan-07	5.4										
22-Nov-06	5.5			18-Jan-07	5.3										
23-Nov-06	5.5			19-Jan-07	5.3										
24-Nov-06	5.5			20-Jan-07	5.2										
25-Nov-06	5.4			21-Jan-07	5.2										
26-Nov-06	5.4			22-Jan-07	5.2										
27-Nov-06	5.4			23-Jan-07	5.3										
28-Nov-06	5.4			24-Jan-07	5.1										
29-Nov-06	5.5			25-Jan-07	5.1										
30-Nov-06	5.6			26-Jan-07	2.9										
1-Dec-06	6			27-Jan-07	3.2										
2-Dec-06	5.6			28-Jan-07	3.6										
3-Dec-06	5.5			29-Jan-07	1.6										
4-Dec-06	5.4			30-Jan-07	1.8										
5-Dec-06	4.1			31-Jan-07	1.2										
6-Dec-06	3.2			1-Feb-07	2.2										
7-Dec-06	3.5			2-Feb-07	3.5										
8-Dec-06	2.1			3-Feb-07	3.1										
9-Dec-06	1.8			4-Feb-07	2.1										
10-Dec-06	2			5-Feb-07	1.4										
11-Dec-06	2.1			6-Feb-07	0.6										
12-Dec-06	2			7-Feb-07	2.9										
13-Dec-06	2.6			8-Feb-07	2										
14-Dec-06	3.5			9-Feb-07	1.4										
15-Dec-06	3.4			10-Feb-07	1.4										
16-Dec-06	2.4			11-Feb-07	0.5										
17-Dec-06	2			12-Feb-07	1.2										
18-Dec-06	2.1			13-Feb-07	2.3										
19-Dec-06	2.2			14-Feb-07	3.5										
20-Dec-06	1.7			15-Feb-07	3.4										
21-Dec-06	1.6			16-Feb-07	3.3										
22-Dec-06	2.3			17-Feb-07	3.1										
23-Dec-06	3.9			18-Feb-07	3.3										
24-Dec-06	3.7			19-Feb-07	2.5										
25-Dec-06	3.8			20-Feb-07	3.4										
26-Dec-06	3.8														
27-Dec-06	3.7														
28-Dec-06	3.5														
29-Dec-06	3.5														

River Bend 17
Data Installed : March 16, 2006
Serial Number: 9DE7374
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06				13-May-06	-32.7		49	10-Jul-06			107	6-Sep-06			165
17-Mar-06	-11.5			14-May-06	-33.7		50	11-Jul-06			108	7-Sep-06			166
18-Mar-06	-12.8			15-May-06	-34.4		51	12-Jul-06			109	8-Sep-06			167
19-Mar-06	-13.6			16-May-06	-34.7		52	13-Jul-06			110	9-Sep-06			168
20-Mar-06	-14.1			17-May-06	-35		53	14-Jul-06			111	10-Sep-06			169
21-Mar-06	-5.1			18-May-06	-35.2		54	15-Jul-06			112	11-Sep-06			170
22-Mar-06	-7.4			19-May-06	-35.3		55	16-Jul-06			113	12-Sep-06			171
23-Mar-06	-9.6			20-May-06	-35.7		56	17-Jul-06			114	13-Sep-06			172
24-Mar-06	-10.3			21-May-06	-35.8		57	18-Jul-06			115	14-Sep-06			173
25-Mar-06	-9.5			22-May-06	-35.9		58	19-Jul-06			116	15-Sep-06			174
26-Mar-06	-10.9	1	1	23-May-06	-36		59	20-Jul-06			117	16-Sep-06			175
27-Mar-06	-12.6		2	24-May-06			60	21-Jul-06			118	17-Sep-06			176
28-Mar-06	-13.1		3	25-May-06			61	22-Jul-06			119	18-Sep-06			177
29-Mar-06	-13.8		4	26-May-06			62	23-Jul-06			120	19-Sep-06			178
30-Mar-06	-14.6		5	27-May-06			63	24-Jul-06			121	20-Sep-06			179
31-Mar-06	-15.1		6	28-May-06			64	25-Jul-06			122	21-Sep-06			180
1-Apr-06	-15.2		7	29-May-06			65	26-Jul-06			123	22-Sep-06			181
2-Apr-06	-16.8		8	30-May-06			66	27-Jul-06			124	23-Sep-06			182
3-Apr-06	-9.3	1	9	31-May-06			67	28-Jul-06			125	24-Sep-06			183
4-Apr-06	-12.2		10	1-Jun-06			68	29-Jul-06			126	25-Sep-06			184
5-Apr-06	-14.2		11	2-Jun-06			69	30-Jul-06			127	26-Sep-06			185
6-Apr-06	-16.6		12	3-Jun-06			70	31-Jul-06			128	27-Sep-06			186
7-Apr-06	-17.6		13	4-Jun-06			71	1-Aug-06			129	28-Sep-06			187
8-Apr-06	-18.5		14	5-Jun-06			72	2-Aug-06			130	29-Sep-06			188
9-Apr-06	-13.1		15	6-Jun-06			73	3-Aug-06			131	30-Sep-06			189
10-Apr-06	-16.4		16	7-Jun-06			74	4-Aug-06			132	1-Oct-06			190
11-Apr-06	-18.8		17	8-Jun-06			75	5-Aug-06			133	2-Oct-06			191
12-Apr-06	-20.3		18	9-Jun-06			76	6-Aug-06			134	3-Oct-06			192
13-Apr-06	-21.1		19	10-Jun-06			77	7-Aug-06			135	4-Oct-06			193
14-Apr-06	-22.1		20	11-Jun-06			78	8-Aug-06			136	5-Oct-06			194
15-Apr-06	-22.6		21	12-Jun-06			79	9-Aug-06			137	6-Oct-06			195
16-Apr-06	-24.3		22	13-Jun-06			80	10-Aug-06			138	7-Oct-06			196
17-Apr-06	-25.2		23	14-Jun-06			81	11-Aug-06			139	8-Oct-06			197
18-Apr-06	-25.5		24	15-Jun-06			82	12-Aug-06			140	9-Oct-06			198
19-Apr-06	-26.2		25	16-Jun-06			83	13-Aug-06			141	10-Oct-06			199
20-Apr-06	-26.9		26	17-Jun-06			84	14-Aug-06			142	11-Oct-06			200
21-Apr-06	-27.7		27	18-Jun-06			85	15-Aug-06			143	12-Oct-06			201
22-Apr-06	-27		28	19-Jun-06			86	16-Aug-06			144	13-Oct-06			202
23-Apr-06	-11.1	1	29	20-Jun-06			87	17-Aug-06			145	14-Oct-06			203
24-Apr-06	-15.9		30	21-Jun-06			88	18-Aug-06			146	15-Oct-06			204
25-Apr-06	-19		31	22-Jun-06			89	19-Aug-06			147	16-Oct-06			205
26-Apr-06	-20.9		32	23-Jun-06			90	20-Aug-06			148	17-Oct-06			206
27-Apr-06	-20.8		33	24-Jun-06			91	21-Aug-06			149	18-Oct-06			207
28-Apr-06	-19.6		34	25-Jun-06			92	22-Aug-06			150	19-Oct-06			208
29-Apr-06	-22.7		35	26-Jun-06			93	23-Aug-06			151	20-Oct-06			209
30-Apr-06	-24.6		36	27-Jun-06			94	24-Aug-06			152	21-Oct-06			210
1-May-06	-26		37	28-Jun-06			95	25-Aug-06			153	22-Oct-06			211
2-May-06	-27.2		38	29-Jun-06			96	26-Aug-06			154	23-Oct-06			212
3-May-06	-28.3		39	30-Jun-06			97	27-Aug-06			155	24-Oct-06			213
4-May-06	-29.5		40	1-Jul-06			98	28-Aug-06			156	25-Oct-06			214
5-May-06	-30.5		41	2-Jul-06			99	29-Aug-06			157	26-Oct-06			215
6-May-06	-31.3		42	3-Jul-06			100	30-Aug-06			158	27-Oct-06			216
7-May-06	-32.6		43	4-Jul-06			101	31-Aug-06			159	28-Oct-06			217
8-May-06	-30.8		44	5-Jul-06			102	1-Sep-06			160	29-Oct-06			218
9-May-06	-29.8		45	6-Jul-06			103	2-Sep-06			161	30-Oct-06			219
10-May-06	-29.7		46	7-Jul-06			104	3-Sep-06			162	31-Oct-06			220
11-May-06	-30.1		47	8-Jul-06			105	4-Sep-06			163	1-Nov-06			221
12-May-06	-31.4		48	9-Jul-06			106	5-Sep-06			164	2-Nov-06			222

River Bend 17
Data Installed : March 16, 2006
Serial Number: 9DE7374
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06			223	30-Dec-06											
4-Nov-06			224	31-Dec-06											
5-Nov-06				1-Jan-07											
6-Nov-06				2-Jan-07											
7-Nov-06				3-Jan-07											
8-Nov-06				4-Jan-07											
9-Nov-06				5-Jan-07											
10-Nov-06				6-Jan-07											
11-Nov-06				7-Jan-07											
12-Nov-06				8-Jan-07											
13-Nov-06				9-Jan-07											
14-Nov-06				10-Jan-07											
15-Nov-06				11-Jan-07											
16-Nov-06				12-Jan-07											
17-Nov-06				13-Jan-07											
18-Nov-06				14-Jan-07											
19-Nov-06				15-Jan-07											
20-Nov-06				16-Jan-07											
21-Nov-06				17-Jan-07											
22-Nov-06				18-Jan-07											
23-Nov-06				19-Jan-07											
24-Nov-06				20-Jan-07											
25-Nov-06				21-Jan-07											
26-Nov-06				22-Jan-07											
27-Nov-06				23-Jan-07											
28-Nov-06				24-Jan-07											
29-Nov-06				25-Jan-07											
30-Nov-06				26-Jan-07											
1-Dec-06				27-Jan-07											
2-Dec-06				28-Jan-07											
3-Dec-06				29-Jan-07											
4-Dec-06				30-Jan-07											
5-Dec-06				31-Jan-07											
6-Dec-06				1-Feb-07											
7-Dec-06				2-Feb-07											
8-Dec-06				3-Feb-07											
9-Dec-06				4-Feb-07											
10-Dec-06				5-Feb-07											
11-Dec-06				6-Feb-07											
12-Dec-06				7-Feb-07											
13-Dec-06				8-Feb-07											
14-Dec-06				9-Feb-07											
15-Dec-06				10-Feb-07											
16-Dec-06				11-Feb-07											
17-Dec-06				12-Feb-07											
18-Dec-06				13-Feb-07											
19-Dec-06				14-Feb-07											
20-Dec-06				15-Feb-07											
21-Dec-06				16-Feb-07											
22-Dec-06				17-Feb-07											
23-Dec-06				18-Feb-07											
24-Dec-06				19-Feb-07											
25-Dec-06				20-Feb-07											
26-Dec-06															
27-Dec-06															
28-Dec-06															
29-Dec-06															

River Bend 18
Data Installed : March 16, 2006
Serial Number: 9DE4C95
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06				13-May-06	-39.8		49	10-Jul-06	-39.2		107	6-Sep-06	-38.8		165
17-Mar-06	-30.3			14-May-06	-39.8		50	11-Jul-06	-39.3		108	7-Sep-06	-38.8		166
18-Mar-06	-31.2			15-May-06	-39.8		51	12-Jul-06	-39.3		109	8-Sep-06	-38.8		167
19-Mar-06	-31.9			16-May-06	-39.9		52	13-Jul-06	-39.3		110	9-Sep-06	-38.8		168
20-Mar-06	-32.5			17-May-06	-39.9		53	14-Jul-06	-39.3		111	10-Sep-06	-38.9		169
21-Mar-06	-31.4			18-May-06	-39.9		54	15-Jul-06	-39.2		112	11-Sep-06	-38.9		170
22-Mar-06	-31			19-May-06	-39.9		55	16-Jul-06	-39.2		113	12-Sep-06	-39		171
23-Mar-06	-31.9			20-May-06	-40		56	17-Jul-06	-39.2		114	13-Sep-06	-39		172
24-Mar-06	-31.9			21-May-06	-39.9		57	18-Jul-06	-39.1		115	14-Sep-06	-37.4		173
25-Mar-06	-32.5			22-May-06	-40		58	19-Jul-06	-39.1		116	15-Sep-06	-37.9		174
26-Mar-06	-32.9		1	23-May-06	-40		59	20-Jul-06	-39.1		117	16-Sep-06	-38.1		175
27-Mar-06	-33.8		2	24-May-06	-40.1		60	21-Jul-06	-39		118	17-Sep-06	-38.2		176
28-Mar-06	-34.1		3	25-May-06	-39.9		61	22-Jul-06	-39		119	18-Sep-06	-38.3		177
29-Mar-06	-34.6		4	26-May-06	-39.9		62	23-Jul-06	-39		120	19-Sep-06	-38.4		178
30-Mar-06	-35.3		5	27-May-06	-39.9		63	24-Jul-06	-39		121	20-Sep-06	-38.5		179
31-Mar-06	-35.7		6	28-May-06	-40		64	25-Jul-06	-39		122	21-Sep-06	-38.4		180
1-Apr-06	-35.7		7	29-May-06	-40.1		65	26-Jul-06	-37.4		123	22-Sep-06	-38.5		181
2-Apr-06	-36.4		8	30-May-06	-40.1		66	27-Jul-06	-37.9		124	23-Sep-06	-38.5		182
3-Apr-06	-36.5		9	31-May-06	-40.2		67	28-Jul-06	-38.6		125	24-Sep-06	-38.6		183
4-Apr-06	-36.5		10	1-Jun-06	-40.3		68	29-Jul-06	-38.9		126	25-Sep-06	-38.7		184
5-Apr-06	-36.6		11	2-Jun-06	-40.4		69	30-Jul-06	-38.6		127	26-Sep-06	-38.7		185
6-Apr-06	-36.6		12	3-Jun-06	-40.4		70	31-Jul-06	-38.4		128	27-Sep-06	-38.6		186
7-Apr-06	-37.4		13	4-Jun-06	-40.5		71	1-Aug-06	-38.1		129	28-Sep-06	-38.6		187
8-Apr-06	-37.6		14	5-Jun-06	-40.5		72	2-Aug-06	-37.9		130	29-Sep-06	-38.7		188
9-Apr-06	-37.9		15	6-Jun-06	-40.5		73	3-Aug-06	-37.9		131	30-Sep-06	-38.7		189
10-Apr-06	-38.4		16	7-Jun-06	-40.5		74	4-Aug-06	-37.9		132	1-Oct-06	-38.8		190
11-Apr-06	-38.6		17	8-Jun-06	-40.5		75	5-Aug-06	-37.8		133	2-Oct-06	-38.9		191
12-Apr-06	-38.8		18	9-Jun-06	-40.5		76	6-Aug-06	-37.7		134	3-Oct-06	-38.9		192
13-Apr-06	-38.9		19	10-Jun-06	-40.5		77	7-Aug-06	-37.7		135	4-Oct-06	-38.9		193
14-Apr-06	-38.9		20	11-Jun-06	-40.5		78	8-Aug-06	-37.7		136	5-Oct-06	-38.9		194
15-Apr-06	-38.9		21	12-Jun-06	-40.5		79	9-Aug-06	-37.7		137	6-Oct-06	-14.4		195
16-Apr-06	-38.9		22	13-Jun-06	-40.5		80	10-Aug-06	-37.7		138	7-Oct-06	-26.8		196
17-Apr-06	-38.9		23	14-Jun-06	-40.4		81	11-Aug-06	-37.7		139	8-Oct-06	-31.4		197
18-Apr-06	-39		24	15-Jun-06	-40.3		82	12-Aug-06	-37.7		140	9-Oct-06	-37		198
19-Apr-06	-38.9		25	16-Jun-06	-40.3		83	13-Aug-06	-37.8		141	10-Oct-06	-37.7		199
20-Apr-06	-38.9		26	17-Jun-06	-40.3		84	14-Aug-06	-37.9		142	11-Oct-06	-37.7		200
21-Apr-06	-38.8		27	18-Jun-06	-40.2		85	15-Aug-06	-37.9		143	12-Oct-06	-37.8		201
22-Apr-06	-38.8		28	19-Jun-06	-40.2		86	16-Aug-06	-38		144	13-Oct-06	-37.9		202
23-Apr-06	-39.1		29	20-Jun-06	-40.2		87	17-Aug-06	-38.1		145	14-Oct-06	-38		203
24-Apr-06	-39.1		30	21-Jun-06	-40.1		88	18-Aug-06	-38.1		146	15-Oct-06	-38.2		204
25-Apr-06	-39.1		31	22-Jun-06	-40.2		89	19-Aug-06	-38.2		147	16-Oct-06	-38.3		205
26-Apr-06	-39.1		32	23-Jun-06	-40.1		90	20-Aug-06	-38.2		148	17-Oct-06	-38.3		206
27-Apr-06	-39.1		33	24-Jun-06	-40.1		91	21-Aug-06	-38.3		149	18-Oct-06	-38.3		207
28-Apr-06	-39.1		34	25-Jun-06	-40		92	22-Aug-06	-38.3		150	19-Oct-06	-38.3		208
29-Apr-06	-39		35	26-Jun-06	-39.8		93	23-Aug-06	-38.2		151	20-Oct-06	-38.3		209
30-Apr-06	-39.1		36	27-Jun-06	-39.8		94	24-Aug-06	-38.2		152	21-Oct-06	-38.3		210
1-May-06	-39.1		37	28-Jun-06	-39.7		95	25-Aug-06	-38.3		153	22-Oct-06	-38.3		211
2-May-06	-39.1		38	29-Jun-06	-39.6		96	26-Aug-06	-38.3		154	23-Oct-06	-38.4		212
3-May-06	-39.1		39	30-Jun-06	-39.6		97	27-Aug-06	-38.3		155	24-Oct-06	-38.4		213
4-May-06	-39.2		40	1-Jul-06	-39.5		98	28-Aug-06	-38.3		156	25-Oct-06	-38.9		214
5-May-06	-39.3		41	2-Jul-06	-39.4		99	29-Aug-06	-38.4		157	26-Oct-06	-38.9		215
6-May-06	-39.3		42	3-Jul-06	-39.4		100	30-Aug-06	-38.4		158	27-Oct-06	-38.8		216
7-May-06	-39.4		43	4-Jul-06	-39.4		101	31-Aug-06	-38.4		159	28-Oct-06	-38.8		217
8-May-06	-39.5		44	5-Jul-06	-39.4		102	1-Sep-06	-38.5		160	29-Oct-06	-38.8		218
9-May-06	-39.6		45	6-Jul-06	-39.4		103	2-Sep-06	-38.5		161	30-Oct-06	-38.8		219
10-May-06	-39.6		46	7-Jul-06	-31.2		104	3-Sep-06	-38.6		162	31-Oct-06	-38.8		220
11-May-06	-39.7		47	8-Jul-06	-38.4		105	4-Sep-06	-38.7		163	1-Nov-06	-38.8		221
12-May-06	-39.7		48	9-Jul-06	-39		106	5-Sep-06	-38.7		164	2-Nov-06	-38.8		222

River Bend 18
Data Installed : March 16, 2006
Serial Number: 9DE4C95
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06	-38.8		223	30-Dec-06	-7.8										
4-Nov-06	-38.8		224	31-Dec-06	-7.2										
5-Nov-06	-38.8			1-Jan-07	3.9										
6-Nov-06	-38.8			2-Jan-07	4.6										
7-Nov-06	-38.7			3-Jan-07	9.8										
8-Nov-06	-19.8			4-Jan-07	13.9										
9-Nov-06	-22.2			5-Jan-07	7.9										
10-Nov-06	-24			6-Jan-07	3.3										
11-Nov-06	-24.6			7-Jan-07	2.6										
12-Nov-06	-6.4			8-Jan-07	3.9										
13-Nov-06	-12.2			9-Jan-07	3.8										
14-Nov-06	-15.5			10-Jan-07	1.6										
15-Nov-06	-17.9			11-Jan-07	0.9										
16-Nov-06	0.2			12-Jan-07	1										
17-Nov-06	6			13-Jan-07	0.6										
18-Nov-06	6.2			14-Jan-07	-0.5										
19-Nov-06	2			15-Jan-07	-1										
20-Nov-06	0			16-Jan-07	-2.4										
21-Nov-06	-2.5			17-Jan-07	-4.8										
22-Nov-06	3.8			18-Jan-07	-5										
23-Nov-06	4.2			19-Jan-07	-4.2										
24-Nov-06	4.7			20-Jan-07	-6.4										
25-Nov-06	2.5			21-Jan-07	-6.8										
26-Nov-06	0.8			22-Jan-07	0.5										
27-Nov-06	-0.7			23-Jan-07	-2.2										
28-Nov-06	-2.2			24-Jan-07	-4.9										
29-Nov-06	-3.2			25-Jan-07	-5.9										
30-Nov-06	-4.4			26-Jan-07	-7.2										
1-Dec-06	0.4			27-Jan-07	-7.8										
2-Dec-06	-4.5			28-Jan-07	-8										
3-Dec-06	-5.9			29-Jan-07	-9.5										
4-Dec-06	-7			30-Jan-07	-9.2										
5-Dec-06	-7.6			31-Jan-07	-10.9										
6-Dec-06	-8			1-Feb-07	-10.8										
7-Dec-06	-8.7			2-Feb-07	-7.6										
8-Dec-06	-10.7			3-Feb-07	-10.9										
9-Dec-06	-11.3			4-Feb-07	-11.4										
10-Dec-06	-11.7			5-Feb-07	-12.3										
11-Dec-06	-12			6-Feb-07	-13										
12-Dec-06	-12.4			7-Feb-07	-12.6										
13-Dec-06	-12			8-Feb-07	-13.4										
14-Dec-06	-12			9-Feb-07	-14										
15-Dec-06	-12			10-Feb-07	-14.6										
16-Dec-06	-13.2			11-Feb-07	-15.4										
17-Dec-06	-13.7			12-Feb-07	-15.4										
18-Dec-06	-14.1			13-Feb-07	-15.1										
19-Dec-06	-14.5			14-Feb-07	1.6										
20-Dec-06	-15.4			15-Feb-07	-1.5										
21-Dec-06	-15.7			16-Feb-07	-3.4										
22-Dec-06	-15			17-Feb-07	-5.1										
23-Dec-06	-6.7			18-Feb-07	-6.7										
24-Dec-06	-10.2			19-Feb-07	-8.1										
25-Dec-06	-1.7			20-Feb-07	-8.1										
26-Dec-06	-0.1														
27-Dec-06	-3.7														
28-Dec-06	-6.3														
29-Dec-06	-7.4														

River Bend 19
Data Installed : March 16, 2006
Serial Number: 9DE797C
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06				13-May-06	-41.2		49	10-Jul-06	-40.4		107	6-Sep-06	-40.5		165
17-Mar-06	-41.3			14-May-06	-41.2		50	11-Jul-06	-40.4		108	7-Sep-06	-40.5		166
18-Mar-06	-41.4			15-May-06	-41.2		51	12-Jul-06	-40.5		109	8-Sep-06	-40.4		167
19-Mar-06	-41.4			16-May-06	-41.1		52	13-Jul-06	-40.5		110	9-Sep-06	-40.4		168
20-Mar-06	-41.4			17-May-06	-41		53	14-Jul-06	-40.6		111	10-Sep-06	-40.4		169
21-Mar-06	-41.3			18-May-06	-41		54	15-Jul-06	-40.6		112	11-Sep-06	-40.4		170
22-Mar-06	-41.3			19-May-06	-41		55	16-Jul-06	-40.6		113	12-Sep-06	-40.4		171
23-Mar-06	-41.3			20-May-06	-41		56	17-Jul-06	-40.6		114	13-Sep-06	-40.4		172
24-Mar-06	-41.3			21-May-06	-41		57	18-Jul-06	-40.6		115	14-Sep-06	-35.6		173
25-Mar-06	-41.3			22-May-06	-41		58	19-Jul-06	-40.6		116	15-Sep-06	-40.2		174
26-Mar-06	-41.3		1	23-May-06	-41		59	20-Jul-06	-40.6		117	16-Sep-06	-40.2		175
27-Mar-06	-41.3		2	24-May-06	-41.1		60	21-Jul-06	-40.6		118	17-Sep-06	-40.2		176
28-Mar-06	-41.3		3	25-May-06	-41		61	22-Jul-06	-40.5		119	18-Sep-06	-40.3		177
29-Mar-06	-41.2		4	26-May-06	-41		62	23-Jul-06	-40.5		120	19-Sep-06	-40.3		178
30-Mar-06	-41.2		5	27-May-06	-40.8		63	24-Jul-06	-40.5		121	20-Sep-06	-40.1		179
31-Mar-06	-41.2		6	28-May-06	-40.7		64	25-Jul-06	-40.5		122	21-Sep-06	-40.2		180
1-Apr-06	-41.2		7	29-May-06	-40.7		65	26-Jul-06	-38		123	22-Sep-06	-40.1		181
2-Apr-06	-41.2		8	30-May-06	-40.7		66	27-Jul-06	-40.5		124	23-Sep-06	-40.1		182
3-Apr-06	-41.2		9	31-May-06	-40.7		67	28-Jul-06	-40.6		125	24-Sep-06	-40.2		183
4-Apr-06	-41.3		10	1-Jun-06	-40.7		68	29-Jul-06	-40.6		126	25-Sep-06	-39.8		184
5-Apr-06	-41.3		11	2-Jun-06	-40.5		69	30-Jul-06	-40.6		127	26-Sep-06	-40.1		185
6-Apr-06	-41.3		12	3-Jun-06	-40.3		70	31-Jul-06	-40.7		128	27-Sep-06	-40.2		186
7-Apr-06	-41.2		13	4-Jun-06	-40.1		71	1-Aug-06	-40.7		129	28-Sep-06	-40.1		187
8-Apr-06	-41.2		14	5-Jun-06	-40.1		72	2-Aug-06	-40.7		130	29-Sep-06	-40		188
9-Apr-06	-41.3		15	6-Jun-06	-40.1		73	3-Aug-06	-40.7		131	30-Sep-06	-40.2		189
10-Apr-06	-41.3		16	7-Jun-06	-40.1		74	4-Aug-06	-40.6		132	1-Oct-06	-40.3		190
11-Apr-06	-41.3		17	8-Jun-06	-39.9		75	5-Aug-06	-40.7		133	2-Oct-06	-40.3		191
12-Apr-06	-41.2		18	9-Jun-06	-39.8		76	6-Aug-06	-40.6		134	3-Oct-06	-40.4		192
13-Apr-06	-41.2		19	10-Jun-06	-39.8		77	7-Aug-06	-40.6		135	4-Oct-06	-40.3		193
14-Apr-06	-41.2		20	11-Jun-06	-40		78	8-Aug-06	-40.7		136	5-Oct-06	-40.2		194
15-Apr-06	-41.2		21	12-Jun-06	-40		79	9-Aug-06	-40.7		137	6-Oct-06	-6.8	1	195
16-Apr-06	-41.2		22	13-Jun-06	-39.9		80	10-Aug-06	-40.7		138	7-Oct-06	-25.5		196
17-Apr-06	-41.2		23	14-Jun-06	-40		81	11-Aug-06	-40.7		139	8-Oct-06	-31		197
18-Apr-06	-41.2		24	15-Jun-06	-40		82	12-Aug-06	-40.5		140	9-Oct-06	-40.3		198
19-Apr-06	-41.2		25	16-Jun-06	-40		83	13-Aug-06	-40.5		141	10-Oct-06	-40.5		199
20-Apr-06	-41.2		26	17-Jun-06	-40		84	14-Aug-06	-40.6		142	11-Oct-06	-40.5		200
21-Apr-06	-41.2		27	18-Jun-06	-40.1		85	15-Aug-06	-40.5		143	12-Oct-06	-40.4		201
22-Apr-06	-39.4		28	19-Jun-06	-40.2		86	16-Aug-06	-40.5		144	13-Oct-06	-40.5		202
23-Apr-06	-39.4		29	20-Jun-06	-40.2		87	17-Aug-06	-40.6		145	14-Oct-06	-40.5		203
24-Apr-06	-39.4		30	21-Jun-06	-40.1		88	18-Aug-06	-40.6		146	15-Oct-06	-40.5		204
25-Apr-06	-41.2		31	22-Jun-06	-40.2		89	19-Aug-06	-40.5		147	16-Oct-06	-40.5		205
26-Apr-06	-41.2		32	23-Jun-06	-40.3		90	20-Aug-06	-40.5		148	17-Oct-06	-40.5		206
27-Apr-06	-41.2		33	24-Jun-06	-40.2		91	21-Aug-06	-40.4		149	18-Oct-06	-40.5		207
28-Apr-06	-41.2		34	25-Jun-06	-40.2		92	22-Aug-06	-40.5		150	19-Oct-06	-40.4		208
29-Apr-06	-41.2		35	26-Jun-06	-40.1		93	23-Aug-06	-40.5		151	20-Oct-06	-40.4		209
30-Apr-06	-41.2		36	27-Jun-06	-40.3		94	24-Aug-06	-40.5		152	21-Oct-06	-40.2		210
1-May-06	-41.2		37	28-Jun-06	-40.3		95	25-Aug-06	-40.5		153	22-Oct-06	-40.4		211
2-May-06	-41.2		38	29-Jun-06	-40.3		96	26-Aug-06	-40.5		154	23-Oct-06	-40.5		212
3-May-06	-41.2		39	30-Jun-06	-40.3		97	27-Aug-06	-40.6		155	24-Oct-06	-40.5		213
4-May-06	-41.2		40	1-Jul-06	-40.4		98	28-Aug-06	-40.5		156	25-Oct-06	-40.6		214
5-May-06	-41.2		41	2-Jul-06	-40.4		99	29-Aug-06	-40.6		157	26-Oct-06	-40.6		215
6-May-06	-41.2		42	3-Jul-06	-40.4		100	30-Aug-06	-40.6		158	27-Oct-06	-40.6		216
7-May-06	-41.2		43	4-Jul-06	-40.5		101	31-Aug-06	-40.3		159	28-Oct-06	-40.5		217
8-May-06	-39.4		44	5-Jul-06	-40.5		102	1-Sep-06	-40.4		160	29-Oct-06	-40.5		218
9-May-06	-41.2		45	6-Jul-06	-5.3	1	103	2-Sep-06	-40.5		161	30-Oct-06	-40.5		219
10-May-06	-41.2		46	7-Jul-06	-38.4		104	3-Sep-06	-40.2		162	31-Oct-06	-40.6		220
11-May-06	-41.2		47	8-Jul-06	-40.4		105	4-Sep-06	-40.3		163	1-Nov-06	-40.6		221
12-May-06	-41.2		48	9-Jul-06	-40.4		106	5-Sep-06	-40.4		164	2-Nov-06	-40.6		222

River Bend 19
Data Installed : March 16, 2006
Serial Number: 9DE797C
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

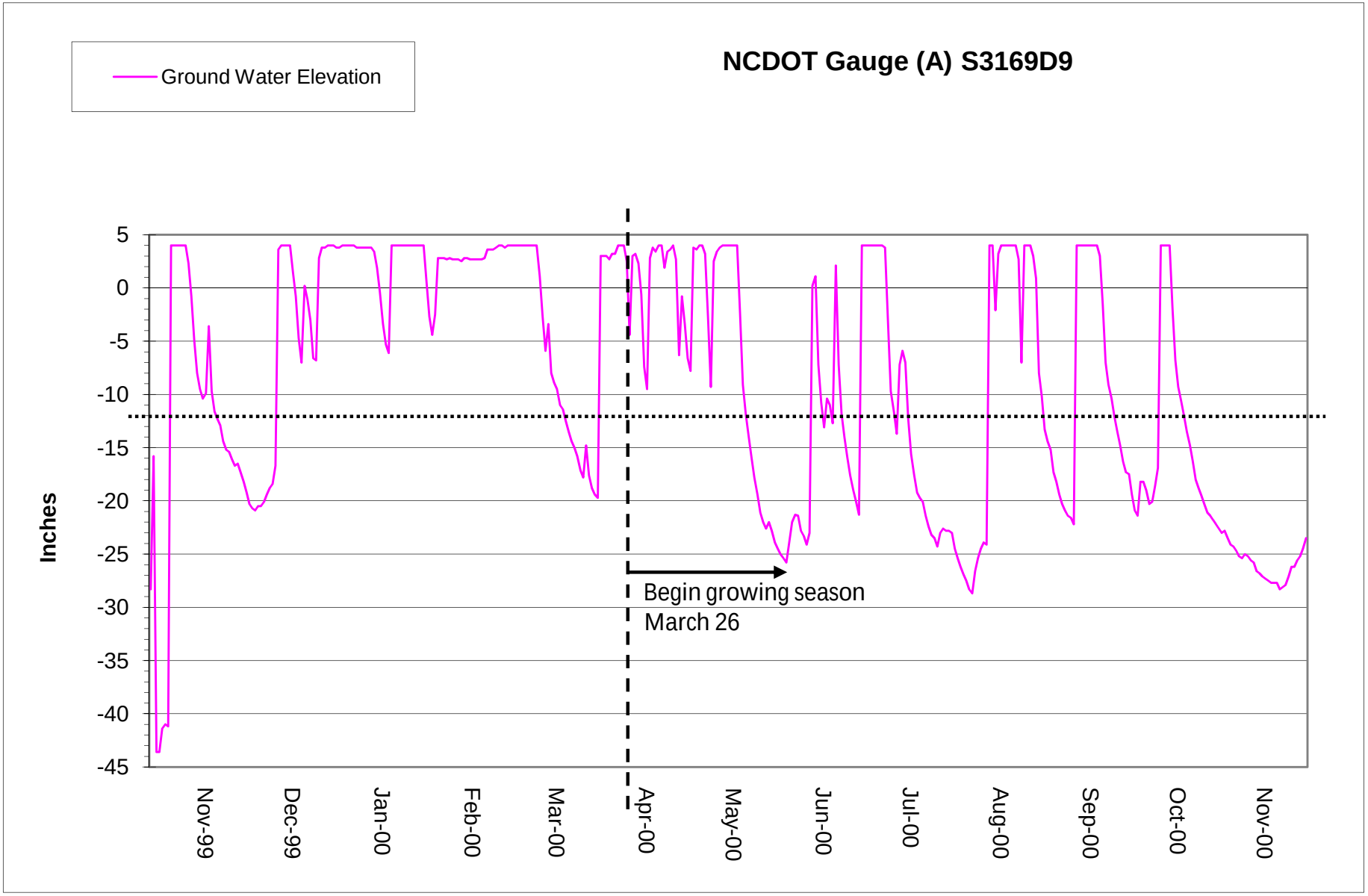
Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06	-40.5		223	30-Dec-06	-40.7										
4-Nov-06	-40.6		224	31-Dec-06	-40.7										
5-Nov-06	-40.6			1-Jan-07	-40.7										
6-Nov-06	-40.6			2-Jan-07	2.8										
7-Nov-06	-40.6			3-Jan-07	4.4										
8-Nov-06	-32.5			4-Jan-07	2.7										
9-Nov-06	-40.6			5-Jan-07	0.5										
10-Nov-06	-40.6			6-Jan-07	-1.1										
11-Nov-06	-40.6			7-Jan-07	-5.7										
12-Nov-06	-25.4			8-Jan-07	-0.8										
13-Nov-06	-40.5			9-Jan-07	-4.9										
14-Nov-06	-40.6			10-Jan-07	-10.3										
15-Nov-06	-40.6			11-Jan-07	-15.4										
16-Nov-06	-30.7			12-Jan-07	-18										
17-Nov-06	-11			13-Jan-07	-20.1										
18-Nov-06	-21.4			14-Jan-07	-22.7										
19-Nov-06	-34.1			15-Jan-07	-24.6										
20-Nov-06	-40.5			16-Jan-07	-26.6										
21-Nov-06	-40.6			17-Jan-07	-31.2										
22-Nov-06	-26.8			18-Jan-07	-33.1										
23-Nov-06	-15.2			19-Jan-07	-32.6										
24-Nov-06	-17.9			20-Jan-07	-34.9										
25-Nov-06	-26.3			21-Jan-07	-37.1										
26-Nov-06	-31.6			22-Jan-07	-36.4										
27-Nov-06	-35.3			23-Jan-07	-33.6										
28-Nov-06	-37.6			24-Jan-07	-34.8										
29-Nov-06	-38.4			25-Jan-07	-36.4										
30-Nov-06	-40.6			26-Jan-07	-38.2										
1-Dec-06	-40.5			27-Jan-07	-38.6										
2-Dec-06	-40.5			28-Jan-07	-38.7										
3-Dec-06	-40.5			29-Jan-07	-40.6										
4-Dec-06	-40.6			30-Jan-07	-40.6										
5-Dec-06	-40.6			31-Jan-07	-40.6										
6-Dec-06	-40.6			1-Feb-07	-40.6										
7-Dec-06	-40.6			2-Feb-07	-40.6										
8-Dec-06	-40.7			3-Feb-07	-40.7										
9-Dec-06	-40.7			4-Feb-07	-40.7										
10-Dec-06	-40.7			5-Feb-07	-40.7										
11-Dec-06	-40.7			6-Feb-07	-40.7										
12-Dec-06	-40.7			7-Feb-07	-40.7										
13-Dec-06	-40.6			8-Feb-07	-40.8										
14-Dec-06	-40.7			9-Feb-07	-40.7										
15-Dec-06	-40.6			10-Feb-07	-40.7										
16-Dec-06	-40.7			11-Feb-07	-40.7										
17-Dec-06	-40.7			12-Feb-07	-40.7										
18-Dec-06	-40.8			13-Feb-07	-40.7										
19-Dec-06	-40.7			14-Feb-07	-30.7										
20-Dec-06	-40.7			15-Feb-07	-30.7										
21-Dec-06	-40.7			16-Feb-07	-33.7										
22-Dec-06	-40.7			17-Feb-07	-35.8										
23-Dec-06	-40.6			18-Feb-07	-37.1										
24-Dec-06	-40.7			19-Feb-07	-38.7										
25-Dec-06	-40.7			20-Feb-07	-40.5										
26-Dec-06	-33.7														
27-Dec-06	-37.3														
28-Dec-06	-40.6														
29-Dec-06	-40.7														

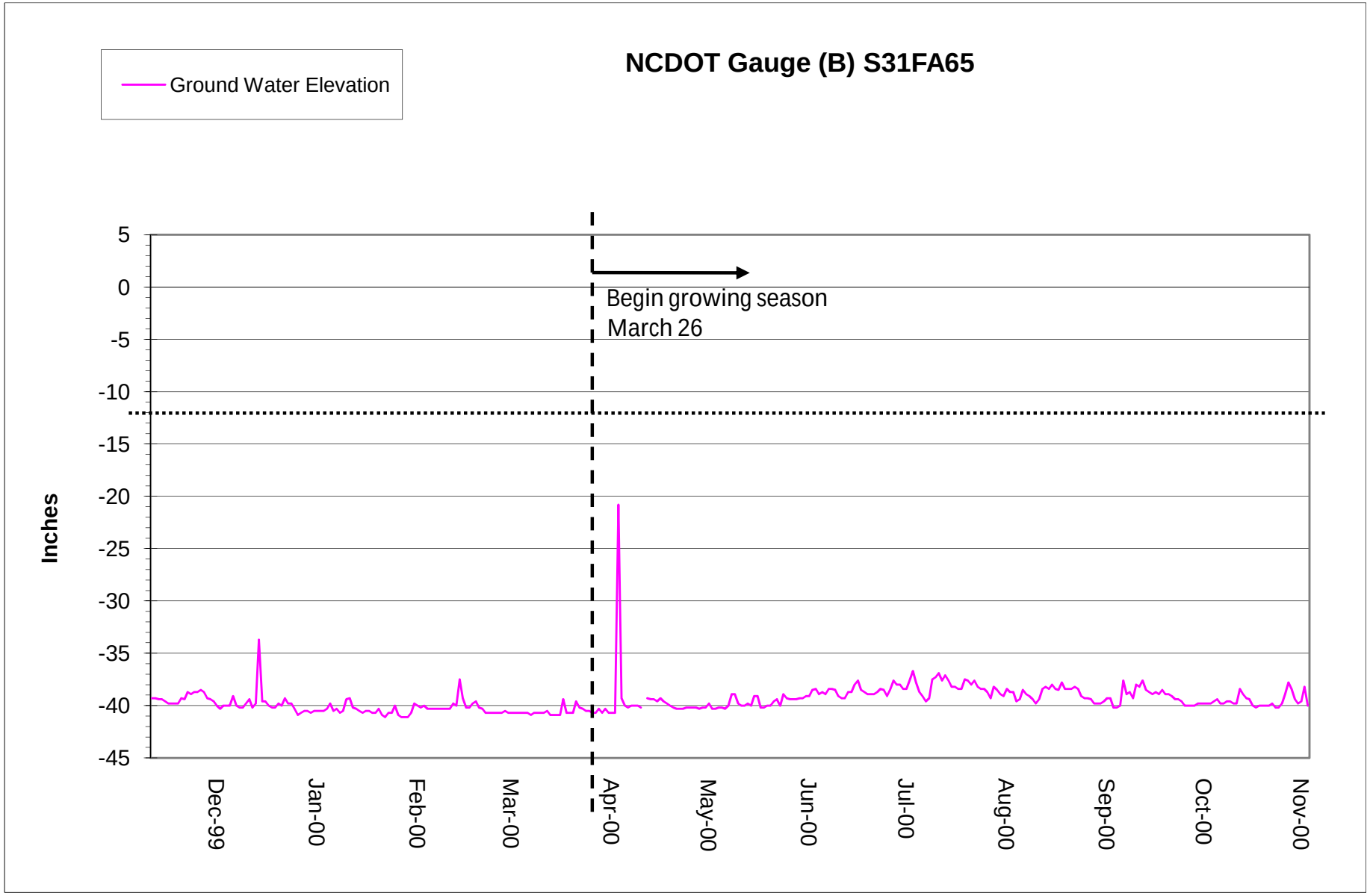
River Bend 20
Data Installed : March 16, 2006
Serial Number: 9DE7132
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

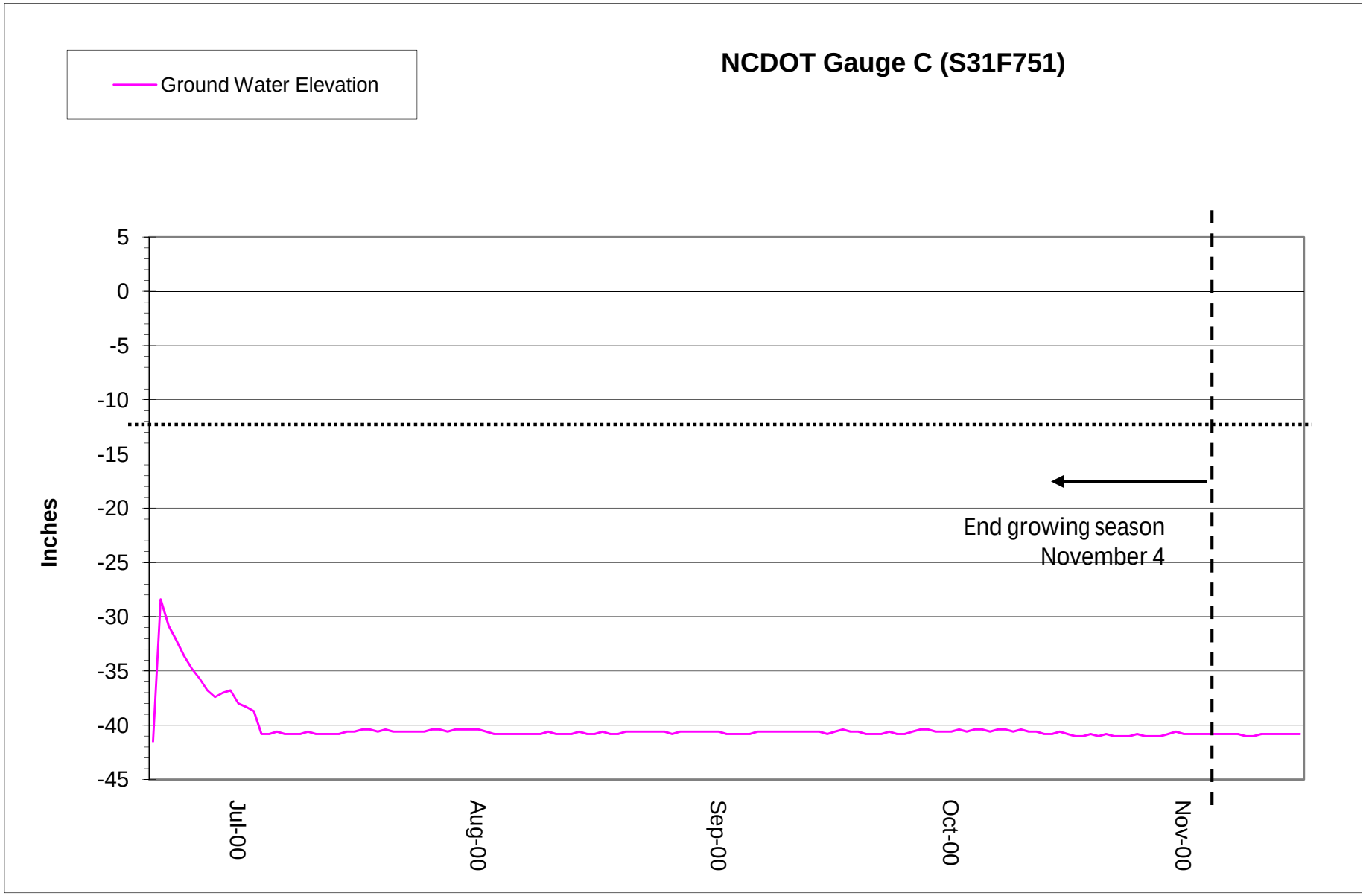
Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
16-Mar-06				13-May-06	-41.3		49	10-Jul-06	-41.2		107	6-Sep-06	-40.2		165
17-Mar-06	-41.5			14-May-06	-41.3		50	11-Jul-06	-41.2		108	7-Sep-06	-40.3		166
18-Mar-06	-41.5			15-May-06	-41.2		51	12-Jul-06	-41.2		109	8-Sep-06	-40.3		167
19-Mar-06	-41.5			16-May-06	-41.3		52	13-Jul-06	-41.2		110	9-Sep-06	-40.2		168
20-Mar-06	-41.5			17-May-06	-41.3		53	14-Jul-06	-41.2		111	10-Sep-06	-40.2		169
21-Mar-06	-41.4			18-May-06	-41.3		54	15-Jul-06	-41.2		112	11-Sep-06	-40.1		170
22-Mar-06	-41.4			19-May-06	-41.3		55	16-Jul-06	-41.2		113	12-Sep-06	-40		171
23-Mar-06	-41.4			20-May-06	-41.3		56	17-Jul-06	-41.2		114	13-Sep-06	-40		172
24-Mar-06	-41.4			21-May-06	-41.3		57	18-Jul-06	-41.2		115	14-Sep-06	-40		173
25-Mar-06	-41.4			22-May-06	-41.3		58	19-Jul-06	-41.2		116	15-Sep-06	-40		174
26-Mar-06	-41.4		1	23-May-06	-41.3		59	20-Jul-06	-41.2		117	16-Sep-06	-39.9		175
27-Mar-06	-41.4		2	24-May-06	-41.3		60	21-Jul-06	-41.2		118	17-Sep-06	-40		176
28-Mar-06	-41.4		3	25-May-06	-41.3		61	22-Jul-06	-41		119	18-Sep-06	-40		177
29-Mar-06	-41.4		4	26-May-06	-41.2		62	23-Jul-06	-41		120	19-Sep-06	-40		178
30-Mar-06	-41.4		5	27-May-06	-41.2		63	24-Jul-06	-41		121	20-Sep-06	-40.1		179
31-Mar-06	-41.4		6	28-May-06	-41.3		64	25-Jul-06	-41.1		122	21-Sep-06	-40.1		180
1-Apr-06	-41.4		7	29-May-06	-41.3		65	26-Jul-06	-41		123	22-Sep-06	-40.3		181
2-Apr-06	-41.4		8	30-May-06	-41.2		66	27-Jul-06	-41		124	23-Sep-06	-40.2		182
3-Apr-06	-41.3		9	31-May-06	-41.2		67	28-Jul-06	-41		125	24-Sep-06	-40.2		183
4-Apr-06	-41.4		10	1-Jun-06	-41.2		68	29-Jul-06	-41		126	25-Sep-06	-40.2		184
5-Apr-06	-41.4		11	2-Jun-06	-41.2		69	30-Jul-06	-41.1		127	26-Sep-06	-40.1		185
6-Apr-06	-41.4		12	3-Jun-06	-41.3		70	31-Jul-06	-41		128	27-Sep-06	-40		186
7-Apr-06	-41.4		13	4-Jun-06	-41.3		71	1-Aug-06	-41		129	28-Sep-06	-39.9		187
8-Apr-06	-41.3		14	5-Jun-06	-41.3		72	2-Aug-06	-41		130	29-Sep-06	-40		188
9-Apr-06	-41.4		15	6-Jun-06	-41.3		73	3-Aug-06	-41		131	30-Sep-06	-40		189
10-Apr-06	-41.4		16	7-Jun-06	-41.3		74	4-Aug-06	-40.9		132	1-Oct-06	-40.1		190
11-Apr-06	-41.4		17	8-Jun-06	-41.3		75	5-Aug-06	-40.9		133	2-Oct-06	-40.1		191
12-Apr-06	-41.4		18	9-Jun-06	-41.2		76	6-Aug-06	-40.8		134	3-Oct-06	-39.9		192
13-Apr-06	-41.3		19	10-Jun-06	-41.3		77	7-Aug-06	-40.8		135	4-Oct-06	-40		193
14-Apr-06	-41.4		20	11-Jun-06	-41.3		78	8-Aug-06	-40.8		136	5-Oct-06	-40.1		194
15-Apr-06	-41.3		21	12-Jun-06	-41.3		79	9-Aug-06	-40.8		137	6-Oct-06	-40.3		195
16-Apr-06	-41.3		22	13-Jun-06	-41.3		80	10-Aug-06	-40.8		138	7-Oct-06	-40		196
17-Apr-06	-41.3		23	14-Jun-06	-41.2		81	11-Aug-06	-40.7		139	8-Oct-06	-39.9		197
18-Apr-06	-41.4		24	15-Jun-06	-41.3		82	12-Aug-06	-40.7		140	9-Oct-06	-39.7		198
19-Apr-06	-41.3		25	16-Jun-06	-41.3		83	13-Aug-06	-40.8		141	10-Oct-06	-39.8		199
20-Apr-06	-41.3		26	17-Jun-06	-41.3		84	14-Aug-06	-40.7		142	11-Oct-06	-39.6		200
21-Apr-06	-41.3		27	18-Jun-06	-41.2		85	15-Aug-06	-40.7		143	12-Oct-06	-39.6		201
22-Apr-06	-41.3		28	19-Jun-06	-41.3		86	16-Aug-06	-40.6		144	13-Oct-06	-39.6		202
23-Apr-06	-41.3		29	20-Jun-06	-41.2		87	17-Aug-06	-40.6		145	14-Oct-06	-39.4		203
24-Apr-06	-41.3		30	21-Jun-06	-41.2		88	18-Aug-06	-40.6		146	15-Oct-06	-39.5		204
25-Apr-06	-41.3		31	22-Jun-06	-41.2		89	19-Aug-06	-40.5		147	16-Oct-06	-39.6		205
26-Apr-06	-41.3		32	23-Jun-06	-41.2		90	20-Aug-06	-40.4		148	17-Oct-06	-39.6		206
27-Apr-06	-41.3		33	24-Jun-06	-41.2		91	21-Aug-06	-40.4		149	18-Oct-06	-39.5		207
28-Apr-06	-41.3		34	25-Jun-06	-41.2		92	22-Aug-06	-40.4		150	19-Oct-06	-39.4		208
29-Apr-06	-41.3		35	26-Jun-06	-41.2		93	23-Aug-06	-40.5		151	20-Oct-06	-39.6		209
30-Apr-06	-41.3		36	27-Jun-06	-41.2		94	24-Aug-06	-40.5		152	21-Oct-06	-39.7		210
1-May-06	-41.3		37	28-Jun-06	-41.2		95	25-Aug-06	-40.5		153	22-Oct-06	-39.6		211
2-May-06	-41.3		38	29-Jun-06	-41.3		96	26-Aug-06	-40.5		154	23-Oct-06	-39.7		212
3-May-06	-41.3		39	30-Jun-06	-41.2		97	27-Aug-06	-40.5		155	24-Oct-06	-39.8		213
4-May-06	-41.3		40	1-Jul-06	-41.3		98	28-Aug-06	-40.5		156	25-Oct-06	-40		214
5-May-06	-41.3		41	2-Jul-06	-41.2		99	29-Aug-06	-40.4		157	26-Oct-06	-40.1		215
6-May-06	-41.3		42	3-Jul-06	-41.2		100	30-Aug-06	-40.3		158	27-Oct-06	-40.1		216
7-May-06	-41.3		43	4-Jul-06	-41.2		101	31-Aug-06	-40.3		159	28-Oct-06	-40		217
8-May-06	-41.3		44	5-Jul-06	-41.2		102	1-Sep-06	-40.3		160	29-Oct-06	-40.1		218
9-May-06	-41.3		45	6-Jul-06	-41.2		103	2-Sep-06	-40.3		161	30-Oct-06	-40.1		219
10-May-06	-41.3		46	7-Jul-06	-41.3		104	3-Sep-06	-40.3		162	31-Oct-06	-40.1		220
11-May-06	-41.3		47	8-Jul-06	-41.2		105	4-Sep-06	-40.2		163	1-Nov-06	-40.1		221
12-May-06	-41.3		48	9-Jul-06	-41.2		106	5-Sep-06	-40.2		164	2-Nov-06	-40.1		222

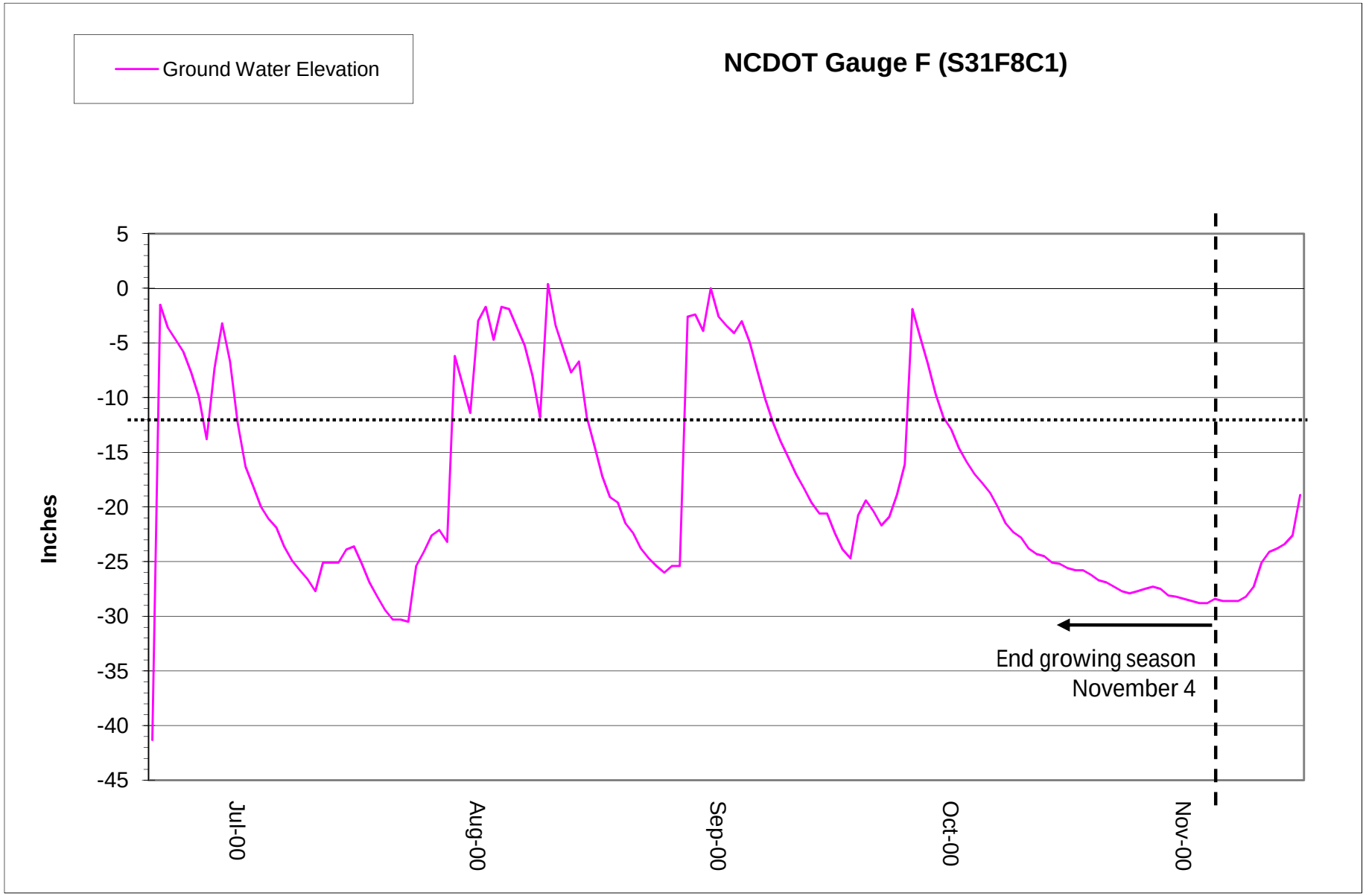
River Bend 20
Data Installed : March 16, 2006
Serial Number: 9DE7132
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 8:00:00

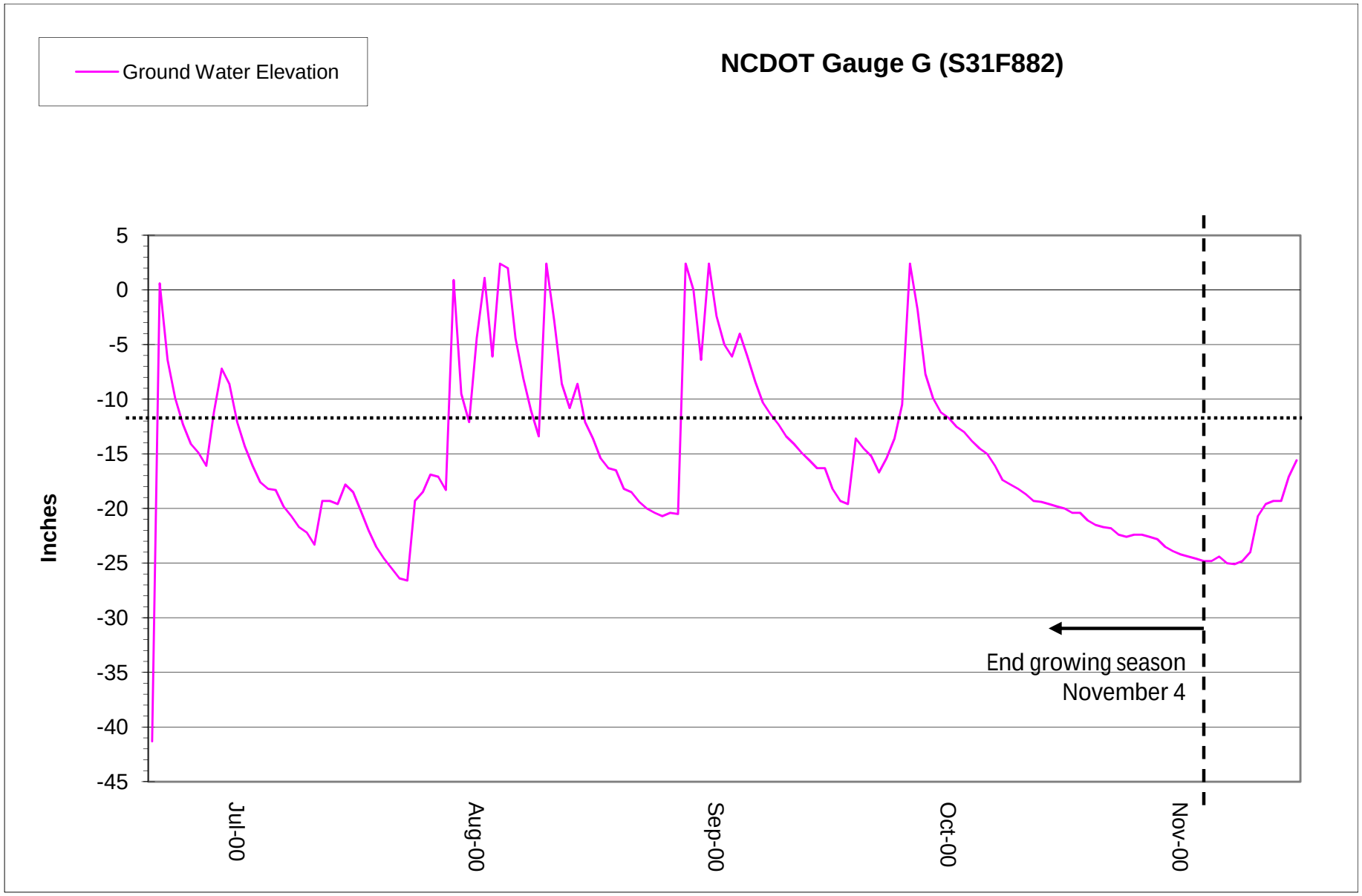
Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
3-Nov-06	-40.3		223	30-Dec-06	-40.8										
4-Nov-06	-40.3		224	31-Dec-06	-40.7										
5-Nov-06	-40.5			1-Jan-07	-38										
6-Nov-06	-40.7			2-Jan-07	-3.3										
7-Nov-06	-40.5			3-Jan-07	5										
8-Nov-06	-40.2			4-Jan-07	-6.6										
9-Nov-06	-40.3			5-Jan-07	-21.9										
10-Nov-06	-40.3			6-Jan-07	-33.1										
11-Nov-06	-40.5			7-Jan-07	-40.7										
12-Nov-06	-40.5			8-Jan-07	-38.4										
13-Nov-06	-40.1			9-Jan-07	-40.5										
14-Nov-06	-40.1			10-Jan-07	-40.6										
15-Nov-06	-40.1			11-Jan-07	-40.7										
16-Nov-06	-40			12-Jan-07	-40.7										
17-Nov-06	-40.4			13-Jan-07	-40.7										
18-Nov-06	-40.7			14-Jan-07	-40.7										
19-Nov-06	-40.7			15-Jan-07	-40.7										
20-Nov-06	-40.7			16-Jan-07	-40.7										
21-Nov-06	-40.7			17-Jan-07	-40.7										
22-Nov-06	-40.6			18-Jan-07	-40.7										
23-Nov-06	-40.6			19-Jan-07	-40.7										
24-Nov-06	-40.6			20-Jan-07	-40.7										
25-Nov-06	-40.6			21-Jan-07	-40.7										
26-Nov-06	-40.6			22-Jan-07	-40.7										
27-Nov-06	-40.6			23-Jan-07	-40.7										
28-Nov-06	-40.5			24-Jan-07	-40.7										
29-Nov-06	-40.6			25-Jan-07	-40.7										
30-Nov-06	-40.6			26-Jan-07	-40.7										
1-Dec-06	-40.6			27-Jan-07	-40.7										
2-Dec-06	-40.7			28-Jan-07	-40.7										
3-Dec-06	-40.6			29-Jan-07	-40.8										
4-Dec-06	-40.5			30-Jan-07	-40.7										
5-Dec-06	-40.7			31-Jan-07	-40.7										
6-Dec-06	-40.7			1-Feb-07	-40.7										
7-Dec-06	-40.7			2-Feb-07	-40.7										
8-Dec-06	-40.8			3-Feb-07	-40.7										
9-Dec-06	-40.9			4-Feb-07	-40.7										
10-Dec-06	-40.9			5-Feb-07	-40.7										
11-Dec-06	-40.9			6-Feb-07	-40.7										
12-Dec-06	-40.9			7-Feb-07	-40.5										
13-Dec-06	-40.8			8-Feb-07	-40.5										
14-Dec-06	-40.9			9-Feb-07	-40.5										
15-Dec-06	-40.9			10-Feb-07	-40.6										
16-Dec-06	-40.9			11-Feb-07	-40.6										
17-Dec-06	-40.9			12-Feb-07	-40.6										
18-Dec-06	-40.9			13-Feb-07	-40.5										
19-Dec-06	-40.9			14-Feb-07	-40.6										
20-Dec-06	-40.9			15-Feb-07	-40.7										
21-Dec-06	-40.8			16-Feb-07	-40.7										
22-Dec-06	-40.8			17-Feb-07	-40.7										
23-Dec-06	-40.8			18-Feb-07	-40.6										
24-Dec-06	-40.9			19-Feb-07	-40.7										
25-Dec-06	-40.8			20-Feb-07	-40.6										
26-Dec-06	-40.8														
27-Dec-06	-40.9														
28-Dec-06	-40.7														
29-Dec-06	-40.8														

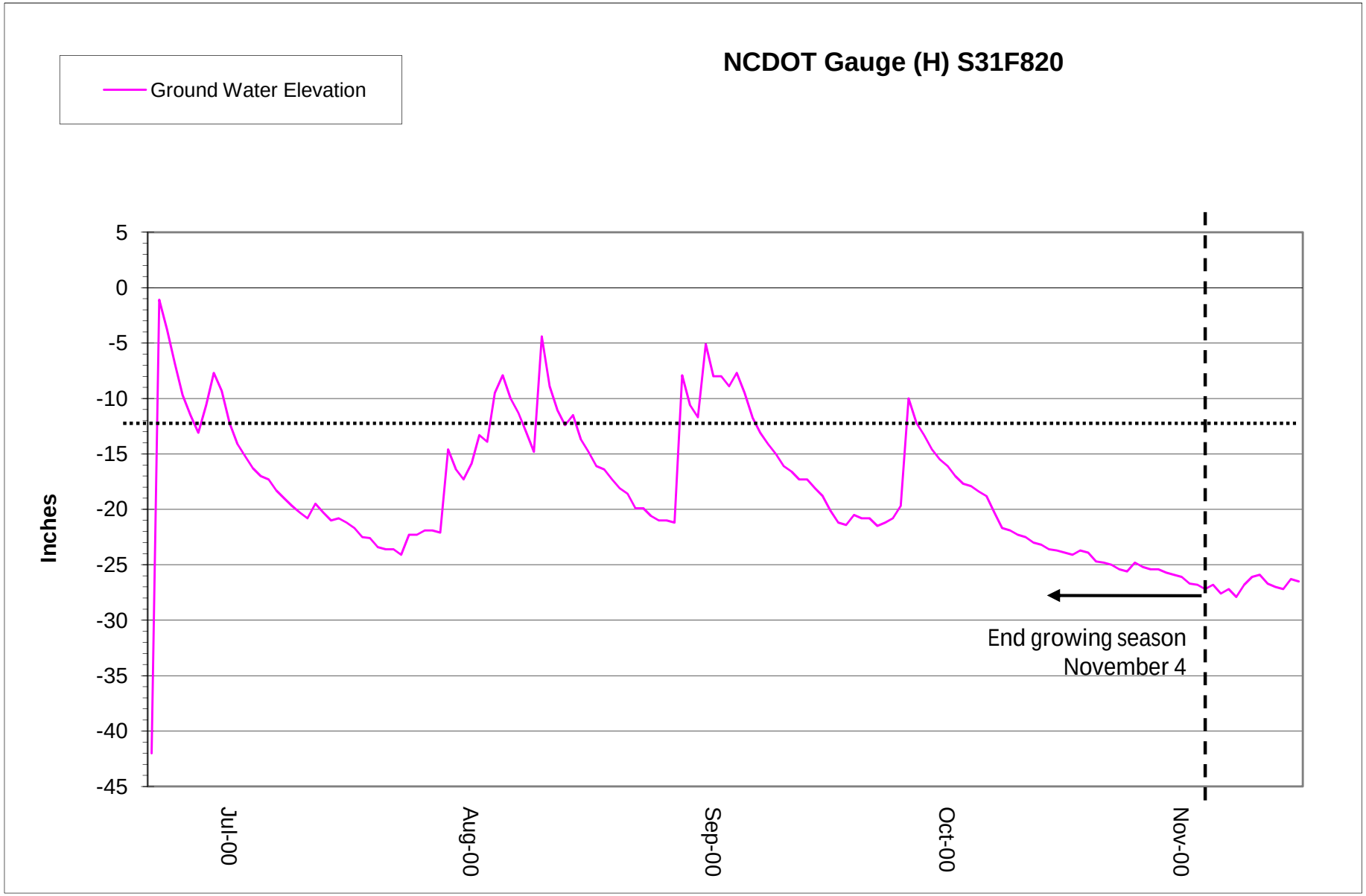

Ground Water Elevation
NCDOT Gauge (A) S3169D9
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Begin growing season
March 26
Nov-99
Dec-99
Jan-00
Feb-00
Mar-00
Apr-00
May-00
Jun-00
Jul-00
Aug-00
Sep-00
Oct-00
Nov-00

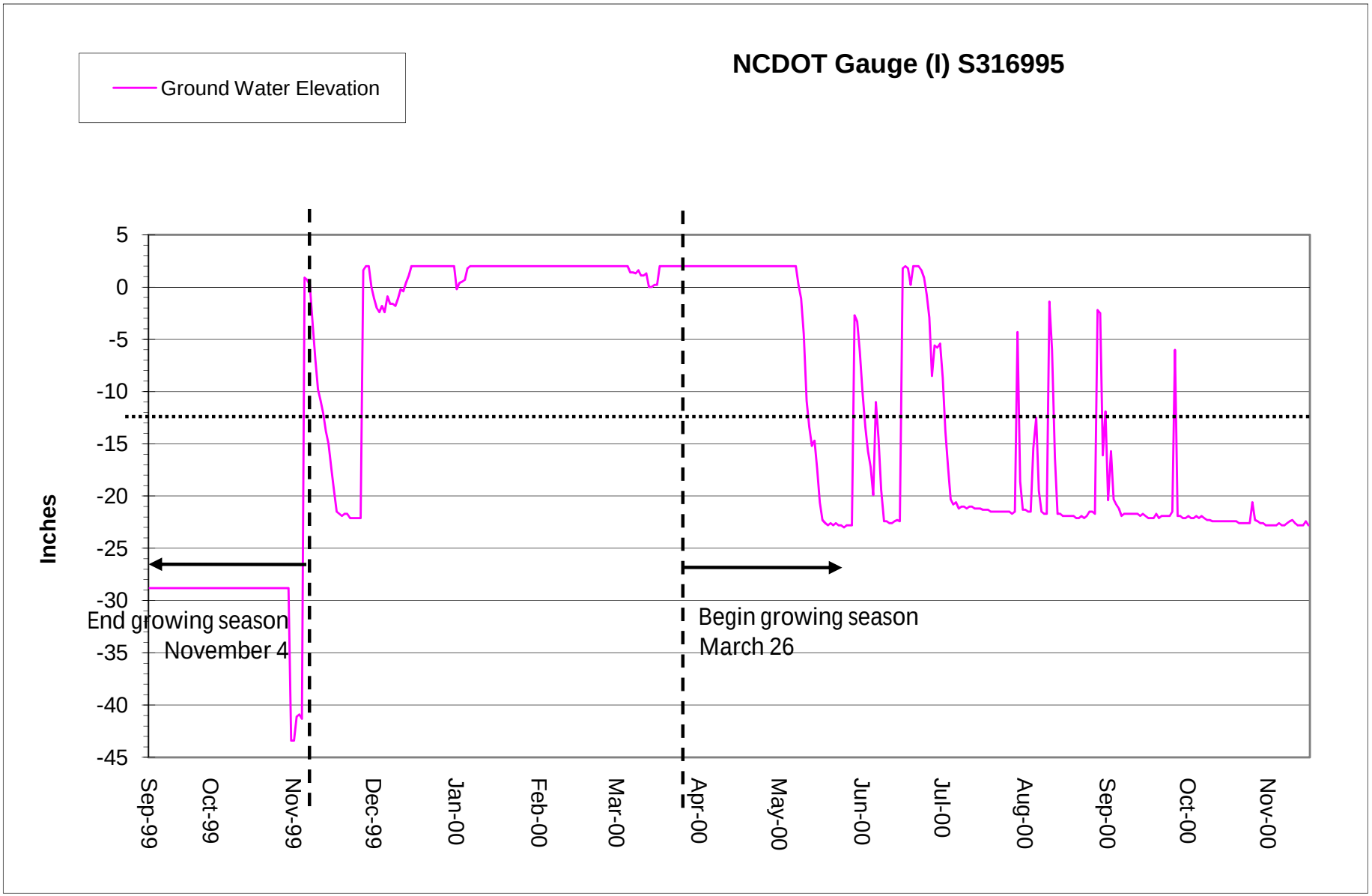

NCDOT Gauge (B) S31FA65
Ground Water Elevation
Begin growing season
March 26
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Dec-99
Jan-00
Feb-00
Mar-00
Apr-00
May-00
Jun-00
Jul-00
Aug-00
Sep-00
Oct-00
Nov-00

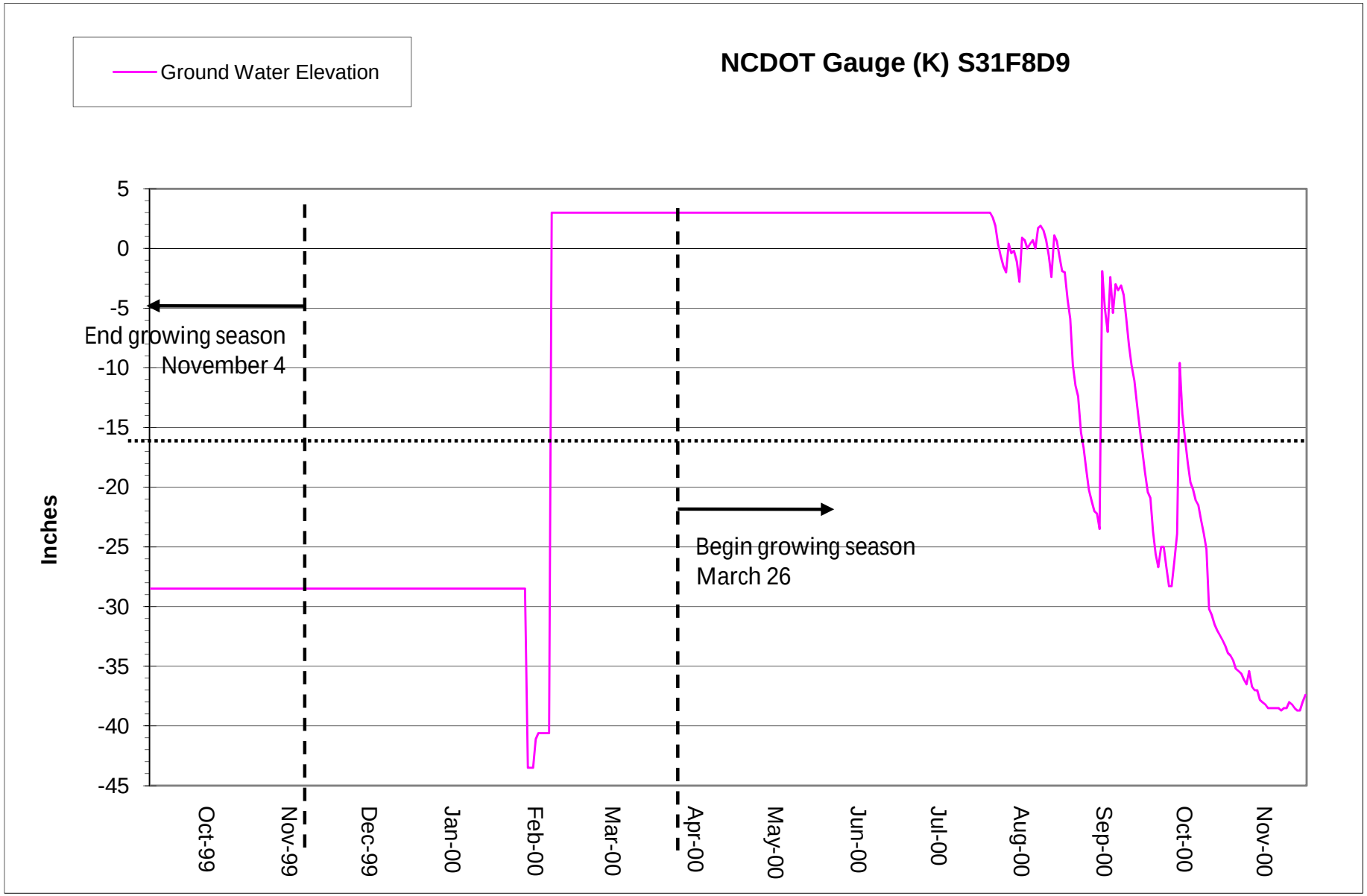

NCDOT Gauge C (S31F751)
Ground Water Elevation
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Jul-00
Aug-00
Sep-00
Oct-00
Nov-00
End growing season
November 4

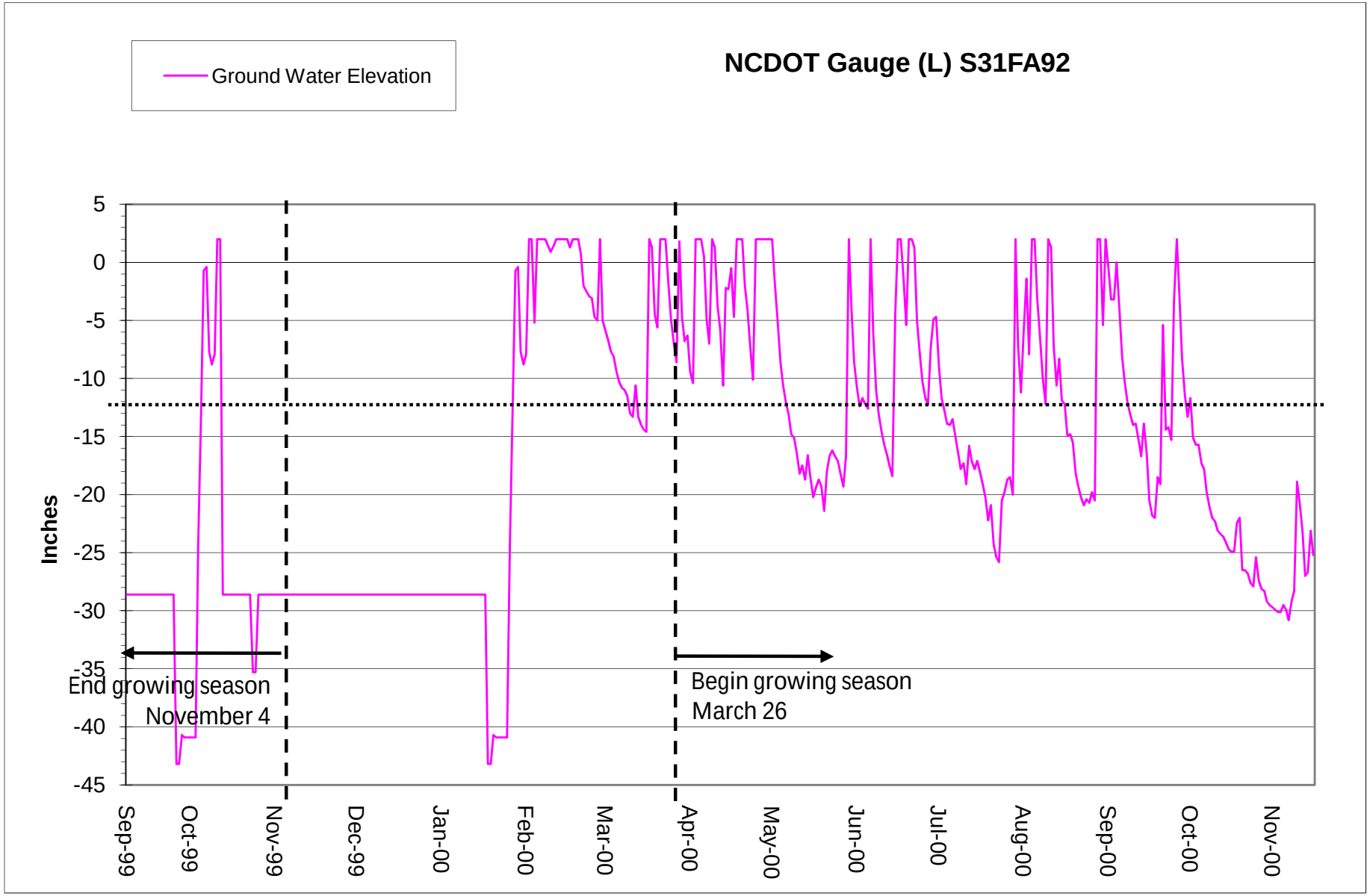

Ground Water Elevation
NCDOT Gauge F (S31F8C1)
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Jul-00
Aug-00
Sep-00
Oct-00
Nov-00
End growing season
November 4

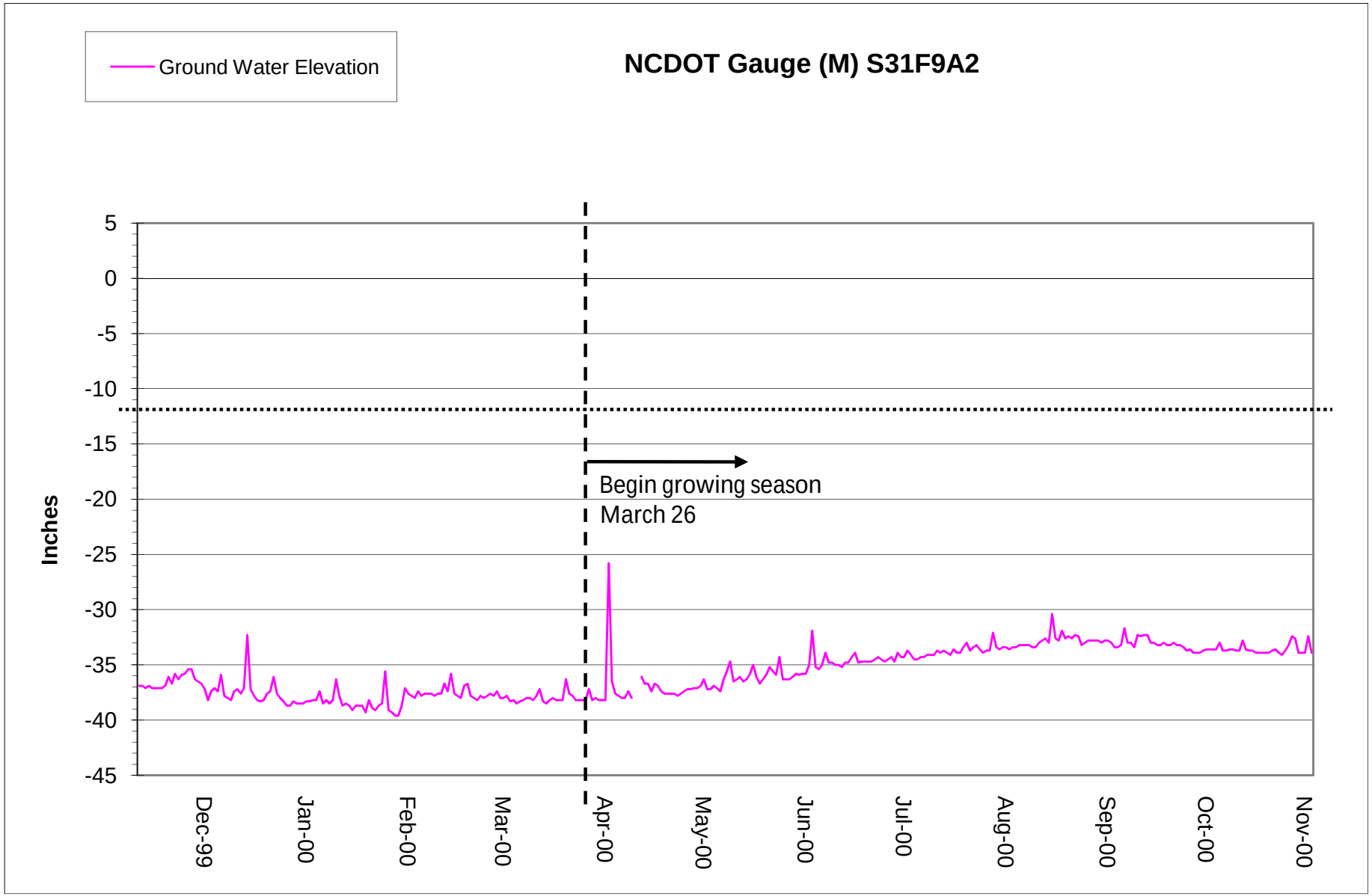

Ground Water Elevation
NCDOT Gauge G (S31F882)
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Jul-00
Aug-00
Sep-00
Oct-00
Nov-00
End growing season
November 4


NCDOT Gauge (H) S31F820
Ground Water Elevation
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Jul-00
Aug-00
Sep-00
Oct-00
Nov-00
End growing season
November 4


NCDOT Gauge (I) S316995
Ground Water Elevation
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
End growing season
November 4
Begin growing season
March 26
Sep-99
Oct-99
Nov-99
Dec-99
Jan-00
Feb-00
Mar-00
Apr-00
May-00
Jun-00
Jul-00
Aug-00
Sep-00
Oct-00
Nov-00


Ground Water Elevation
NCDOT Gauge (K) S31F8D9
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
End growing season
November 4
Begin growing season
March 26
Oct-99
Nov-99
Dec-99
Jan-00
Feb-00
Mar-00
Apr-00
May-00
Jun-00
Jul-00
Aug-00
Sep-00
Oct-00
Nov-00


Ground Water Elevation
NCDOT Gauge (L) S31FA92
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Sep-99
Oct-99
Nov-99
Dec-99
Jan-00
Feb-00
Mar-00
Apr-00
May-00
Jun-00
Jul-00
Aug-00
Sep-00
Oct-00
Nov-00
End growing season
November 4
Begin growing season
March 26


Ground Water Elevation
NCDOT Gauge (M) S31F9A2
Inches
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
Begin growing season
March 26
Dec-99
Jan-00
Feb-00
Mar-00
Apr-00
May-00
Jun-00
Jul-00
Aug-00
Sep-00
Oct-00
Nov-00

River Bend NCDOT Gauge A
Serial Number: S3169D9
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 7:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
14-Oct-99	-28.3		203	4-Dec-99	-4.7			24-Jan-00	2.7			15-Mar-00	-19.4		
15-Oct-99	-15.8		204	5-Dec-99	-7			25-Jan-00	2.8			16-Mar-00	-19.7		
16-Oct-99	-43.6		205	6-Dec-99	0.2			26-Jan-00	2.7			17-Mar-00	3		
17-Oct-99	-43.6		206	7-Dec-99	-1.1			27-Jan-00	2.7			18-Mar-00	3		
18-Oct-99	-41.4		207	8-Dec-99	-3			28-Jan-00	2.7			19-Mar-00	3		
19-Oct-99	-41		208	9-Dec-99	-6.6			29-Jan-00	2.5			20-Mar-00	2.7		
20-Oct-99	-41.2		209	10-Dec-99	-6.8			30-Jan-00	2.8			21-Mar-00	3.2		
21-Oct-99	4	1	210	11-Dec-99	2.8			31-Jan-00	2.8			22-Mar-00	3.2		
22-Oct-99	4	2	211	12-Dec-99	3.8			1-Feb-00	2.7			23-Mar-00	4		
23-Oct-99	4	3	212	13-Dec-99	3.8			2-Feb-00	2.7			24-Mar-00	4		
24-Oct-99	4	4	213	14-Dec-99	4			3-Feb-00	2.7			25-Mar-00	4		
25-Oct-99	4	5	214	15-Dec-99	4			4-Feb-00	2.7			26-Mar-00	2.5	1	1
26-Oct-99	4	6	215	16-Dec-99	4			5-Feb-00	2.7			27-Mar-00	-4.4	2	2
27-Oct-99	2.3	7	216	17-Dec-99	3.8			6-Feb-00	2.8			28-Mar-00	3	3	3
28-Oct-99	-0.8	8	217	18-Dec-99	3.8			7-Feb-00	3.6			29-Mar-00	3.2	4	4
29-Oct-99	-4.9	9	218	19-Dec-99	4			8-Feb-00	3.6			30-Mar-00	2.3	5	5
30-Oct-99	-8	10	219	20-Dec-99	4			9-Feb-00	3.6			31-Mar-00	-0.6	6	6
31-Oct-99	-9.5	11	220	21-Dec-99	4			10-Feb-00	3.8			1-Apr-00	-7.4	7	7
1-Nov-99	-10.4	12	221	22-Dec-99	4			11-Feb-00	4			2-Apr-00	-9.5	8	8
2-Nov-99	-9.9	13	222	23-Dec-99	4			12-Feb-00	4			3-Apr-00	2.8	9	9
3-Nov-99	-3.6	14	223	24-Dec-99	3.8			13-Feb-00	3.8			4-Apr-00	3.8	10	10
4-Nov-99	-9.7	15	224	25-Dec-99	3.8			14-Feb-00	4			5-Apr-00	3.4	11	11
5-Nov-99	-11.6			26-Dec-99	3.8			15-Feb-00	4			6-Apr-00	4	12	12
6-Nov-99	-12.3			27-Dec-99	3.8			16-Feb-00	4			7-Apr-00	4	13	13
7-Nov-99	-12.9			28-Dec-99	3.8			17-Feb-00	4			8-Apr-00	1.9	14	14
8-Nov-99	-14.4			29-Dec-99	3.8			18-Feb-00	4			9-Apr-00	3.4	15	15
9-Nov-99	-15.2			30-Dec-99	3.4			19-Feb-00	4			10-Apr-00	3.6	16	16
10-Nov-99	-15.4			31-Dec-99	1.9			20-Feb-00	4			11-Apr-00	4	17	17
11-Nov-99	-16.1			1-Jan-00	-0.4			21-Feb-00	4			12-Apr-00	2.7	18	18
12-Nov-99	-16.7			2-Jan-00	-3.4			22-Feb-00	4			13-Apr-00	-6.3	19	19
13-Nov-99	-16.5			3-Jan-00	-5.3			23-Feb-00	4			14-Apr-00	-0.8	20	20
14-Nov-99	-17.3			4-Jan-00	-6.1			24-Feb-00	4			15-Apr-00	-3.4	21	21
15-Nov-99	-18.2			5-Jan-00	4			25-Feb-00	1.1			16-Apr-00	-6.6	22	22
16-Nov-99	-19.2			6-Jan-00	4			26-Feb-00	-2.7			17-Apr-00	-7.8	23	23
17-Nov-99	-20.3			7-Jan-00	4			27-Feb-00	-5.9			18-Apr-00	3.8	24	24
18-Nov-99	-20.7			8-Jan-00	4			28-Feb-00	-3.4			19-Apr-00	3.6	25	25
19-Nov-99	-20.9			9-Jan-00	4			29-Feb-00	-8			20-Apr-00	4	26	26
20-Nov-99	-20.5			10-Jan-00	4			1-Mar-00	-8.9			21-Apr-00	4	27	27
21-Nov-99	-20.5			11-Jan-00	4			2-Mar-00	-9.5			22-Apr-00	3.2	28	28
22-Nov-99	-20.1			12-Jan-00	4			3-Mar-00	-11			23-Apr-00	-2.7	29	29
23-Nov-99	-19.4			13-Jan-00	4			4-Mar-00	-11.4			24-Apr-00	-9.3	30	30
24-Nov-99	-18.8			14-Jan-00	4			5-Mar-00	-12.5			25-Apr-00	2.5	31	31
25-Nov-99	-18.4			15-Jan-00	4			6-Mar-00	-13.5			26-Apr-00	3.4	32	32
26-Nov-99	-16.7			16-Jan-00	4			7-Mar-00	-14.4			27-Apr-00	3.8	33	33
27-Nov-99	3.6			17-Jan-00	0.6			8-Mar-00	-15			28-Apr-00	4	34	34
28-Nov-99	4			18-Jan-00	-2.7			9-Mar-00	-15.8			29-Apr-00	4	35	35
29-Nov-99	4			19-Jan-00	-4.4			10-Mar-00	-17.1			30-Apr-00	4	36	36
30-Nov-99	4			20-Jan-00	-2.5			11-Mar-00	-17.8			1-May-00	4	37	37
1-Dec-99	4			21-Jan-00	2.8			12-Mar-00	-14.8			2-May-00	4	38	38
2-Dec-99	1.5			22-Jan-00	2.8			13-Mar-00	-17.6			3-May-00	4	39	39
3-Dec-99	-0.8			23-Jan-00	2.8			14-Mar-00	-18.8			4-May-00	-2.3	40	40

River Bend NCDOT Gauge A
Serial Number: S3169D9
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 7:00:00

5-May-00	-9.1	41	41	26-Jun-00	-11.6	12	93	17-Aug-00	-13.3		145	8-Oct-00	-18		197
6-May-00	-11.8	42	42	27-Jun-00	-13.7		94	18-Aug-00	-14.4		146	9-Oct-00	-18.8		198
7-May-00	-13.9		43	28-Jun-00	-7.2	1	95	19-Aug-00	-15.2		147	10-Oct-00	-19.5		199
8-May-00	-15.9		44	29-Jun-00	-5.9	2	96	20-Aug-00	-17.3		148	11-Oct-00	-20.3		200
9-May-00	-17.8		45	30-Jun-00	-7	3	97	21-Aug-00	-18.2		149	12-Oct-00	-21.1		201
10-May-00	-19.4		46	1-Jul-00	-12.3		98	22-Aug-00	-19.4		150	13-Oct-00	-21.4		202
11-May-00	-21.1		47	2-Jul-00	-15.6		99	23-Aug-00	-20.3		151	14-Oct-00	-21.8		203
12-May-00	-22		48	3-Jul-00	-17.6		100	24-Aug-00	-20.9		152	15-Oct-00	-22.2		204
13-May-00	-22.6		49	4-Jul-00	-19.2		101	25-Aug-00	-21.4		153	16-Oct-00	-22.6		205
14-May-00	-22		50	5-Jul-00	-19.7		102	26-Aug-00	-21.6		154	17-Oct-00	-23		206
15-May-00	-22.8		51	6-Jul-00	-20.1		103	27-Aug-00	-22.2		155	18-Oct-00	-22.8		207
16-May-00	-23.9		52	7-Jul-00	-21.4		104	28-Aug-00	4	1	156	19-Oct-00	-23.5		208
17-May-00	-24.5		53	8-Jul-00	-22.4		105	29-Aug-00	4	2	157	20-Oct-00	-24.1		209
18-May-00	-25		54	9-Jul-00	-23.2		106	30-Aug-00	4	3	158	21-Oct-00	-24.3		210
19-May-00	-25.4		55	10-Jul-00	-23.5		107	31-Aug-00	4	4	159	22-Oct-00	-24.7		211
20-May-00	-25.8		56	11-Jul-00	-24.3		108	1-Sep-00	4	5	160	23-Oct-00	-25.2		212
21-May-00	-23.9		57	12-Jul-00	-23		109	2-Sep-00	4	6	161	24-Oct-00	-25.4		213
22-May-00	-22		58	13-Jul-00	-22.6		110	3-Sep-00	4	7	162	25-Oct-00	-25		214
23-May-00	-21.3		59	14-Jul-00	-22.8		111	4-Sep-00	4	8	163	26-Oct-00	-25.2		215
24-May-00	-21.4		60	15-Jul-00	-22.8		112	5-Sep-00	3	9	164	27-Oct-00	-25.6		216
25-May-00	-22.8		61	16-Jul-00	-23		113	6-Sep-00	-1.5	10	165	28-Oct-00	-25.8		217
26-May-00	-23.3		62	17-Jul-00	-24.5		114	7-Sep-00	-7	11	166	29-Oct-00	-26.6		218
27-May-00	-24.1		63	18-Jul-00	-25.4		115	8-Sep-00	-9.1	12	167	30-Oct-00	-26.8		219
28-May-00	-23		64	19-Jul-00	-26.2		116	9-Sep-00	-10.4	13	168	31-Oct-00	-27.1		220
29-May-00	0.2	1	65	20-Jul-00	-26.9		117	10-Sep-00	-12.1		169	1-Nov-00	-27.3		221
30-May-00	1.1	2	66	21-Jul-00	-27.5		118	11-Sep-00	-13.5		170	2-Nov-00	-27.5		222
31-May-00	-7.2	3	67	22-Jul-00	-28.3		119	12-Sep-00	-14.8		171	3-Nov-00	-27.7		223
1-Jun-00	-10.8	4	68	23-Jul-00	-28.7		120	13-Sep-00	-16.3		172	4-Nov-00	-27.7		224
2-Jun-00	-13.1		69	24-Jul-00	-26.6		121	14-Sep-00	-17.3		173	5-Nov-00	-27.7		
3-Jun-00	-10.4	1	70	25-Jul-00	-25.4		122	15-Sep-00	-17.5		174	6-Nov-00	-28.3		
4-Jun-00	-11	2	71	26-Jul-00	-24.5		123	16-Sep-00	-19.4		175	7-Nov-00	-28.1		
5-Jun-00	-12.7		72	27-Jul-00	-23.9		124	17-Sep-00	-20.9		176	8-Nov-00	-27.9		
6-Jun-00	2.1	1	73	28-Jul-00	-24.1		125	18-Sep-00	-21.4		177	9-Nov-00	-27.1		
7-Jun-00	-7.2	2	74	29-Jul-00	4	1	126	19-Sep-00	-18.2		178	10-Nov-00	-26.2		
8-Jun-00	-11.8	3	75	30-Jul-00	4	2	127	20-Sep-00	-18.2		179	11-Nov-00	-26.2		
9-Jun-00	-14		76	31-Jul-00	-2.1	3	128	21-Sep-00	-19		180	12-Nov-00	-25.6		
10-Jun-00	-15.9		77	1-Aug-00	3.2	4	129	22-Sep-00	-20.3		181	13-Nov-00	-25.2		
11-Jun-00	-17.6		78	2-Aug-00	4	5	130	23-Sep-00	-20.1		182	14-Nov-00	-24.5		
12-Jun-00	-19		79	3-Aug-00	4	6	131	24-Sep-00	-18.6		183	15-Nov-00	-23.5		
13-Jun-00	-20.1		80	4-Aug-00	4	7	132	25-Sep-00	-16.9		184	16-Nov-00			
14-Jun-00	-21.3		81	5-Aug-00	4	8	133	26-Sep-00	4	1	185	17-Nov-00			
15-Jun-00	4	1	82	6-Aug-00	4	9	134	27-Sep-00	4	2	186	18-Nov-00			
16-Jun-00	4	2	83	7-Aug-00	4	10	135	28-Sep-00	4	3	187	19-Nov-00			
17-Jun-00	4	3	84	8-Aug-00	2.7	11	136	29-Sep-00	4	4	188	20-Nov-00			
18-Jun-00	4	4	85	9-Aug-00	-7	12	137	30-Sep-00	-1.9	5	189	21-Nov-00			
19-Jun-00	4	5	86	10-Aug-00	4	13	138	1-Oct-00	-6.8	6	190	22-Nov-00			
20-Jun-00	4	6	87	11-Aug-00	4	14	139	2-Oct-00	-9.3	7	191	23-Nov-00			
21-Jun-00	4	7	88	12-Aug-00	4	15	140	3-Oct-00	-10.6	8	192	24-Nov-00			
22-Jun-00	4	8	89	13-Aug-00	3	16	141	4-Oct-00	-12		193	25-Nov-00			
23-Jun-00	3.8	9	90	14-Aug-00	0.9	17	142	5-Oct-00	-13.5		194	26-Nov-00			
24-Jun-00	-3	10	91	15-Aug-00	-8	18	143	6-Oct-00	-14.8		195				
25-Jun-00	-9.7	11	92	16-Aug-00	-10.2	19	144	7-Oct-00	-16.3		196				

River Bend NCDOT Gauge B

B TABLE

Serial Number: S31FA65

CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season

JD: Julian Days During Growing Season

All Readings collected at 7:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
14-Oct-99			203	4-Dec-99	-40			24-Jan-00	-40.7			15-Mar-00	-40.9		
15-Oct-99			204	5-Dec-99	-40			25-Jan-00	-40			16-Mar-00	-40.9		
16-Oct-99			205	6-Dec-99	-39.1			26-Jan-00	-40.9			17-Mar-00	-39.4		
17-Oct-99			206	7-Dec-99	-40			27-Jan-00	-41.1			18-Mar-00	-40.7		
18-Oct-99			207	8-Dec-99	-40.2			28-Jan-00	-41.1			19-Mar-00	-40.7		
19-Oct-99			208	9-Dec-99	-40.2			29-Jan-00	-41.1			20-Mar-00	-40.7		
20-Oct-99			209	10-Dec-99	-39.8			30-Jan-00	-40.7			21-Mar-00	-39.6		
21-Oct-99			210	11-Dec-99	-39.4			31-Jan-00	-39.8			22-Mar-00	-40.2		
22-Oct-99			211	12-Dec-99	-40.2			1-Feb-00	-40			23-Mar-00	-40.3		
23-Oct-99			212	13-Dec-99	-39.8			2-Feb-00	-40.2			24-Mar-00	-40.5		
24-Oct-99			213	14-Dec-99	-33.7			3-Feb-00	-40			25-Mar-00	-40.5		
25-Oct-99			214	15-Dec-99	-39.6			4-Feb-00	-40.3			26-Mar-00	-40.7		1
26-Oct-99			215	16-Dec-99	-39.6			5-Feb-00	-40.3			27-Mar-00	-40.7		2
27-Oct-99			216	17-Dec-99	-40			6-Feb-00	-40.3			28-Mar-00	-40.3		3
28-Oct-99			217	18-Dec-99	-40.2			7-Feb-00	-40.3			29-Mar-00	-40.7		4
29-Oct-99			218	19-Dec-99	-40.2			8-Feb-00	-40.3			30-Mar-00	-40.3		5
30-Oct-99			219	20-Dec-99	-39.8			9-Feb-00	-40.3			31-Mar-00	-40.7		6
31-Oct-99			220	21-Dec-99	-40			10-Feb-00	-40.3			1-Apr-00	-40.7		7
1-Nov-99			221	22-Dec-99	-39.3			11-Feb-00	-40.3			2-Apr-00	-40.7		8
2-Nov-99			222	23-Dec-99	-39.8			12-Feb-00	-39.8			3-Apr-00	-20.8		9
3-Nov-99			223	24-Dec-99	-39.8			13-Feb-00	-40			4-Apr-00	-39.3		10
4-Nov-99			224	25-Dec-99	-40.3			14-Feb-00	-37.5			5-Apr-00	-40		11
5-Nov-99				26-Dec-99	-40.9			15-Feb-00	-39.3			6-Apr-00	-40.2		12
6-Nov-99				27-Dec-99	-40.7			16-Feb-00	-40.2			7-Apr-00	-40		13
7-Nov-99				28-Dec-99	-40.5			17-Feb-00	-40.2			8-Apr-00	-40		14
8-Nov-99				29-Dec-99	-40.5			18-Feb-00	-39.8			9-Apr-00	-40		15
9-Nov-99				30-Dec-99	-40.7			19-Feb-00	-39.6			10-Apr-00	-40.2		16
10-Nov-99				31-Dec-99	-40.5			20-Feb-00	-40.2			11-Apr-00			17
11-Nov-99				1-Jan-00	-40.5			21-Feb-00	-40.3			12-Apr-00	-39.3		18
12-Nov-99				2-Jan-00	-40.5			22-Feb-00	-40.7			13-Apr-00	-39.4		19
13-Nov-99				3-Jan-00	-40.5			23-Feb-00	-40.7			14-Apr-00	-39.4		20
14-Nov-99	-39.4			4-Jan-00	-40.3			24-Feb-00	-40.7			15-Apr-00	-39.6		21
15-Nov-99	-39.6			5-Jan-00	-39.8			25-Feb-00	-40.7			16-Apr-00	-39.3		22
16-Nov-99	-39.8			6-Jan-00	-40.5			26-Feb-00	-40.7			17-Apr-00	-39.6		23
17-Nov-99	-39.8			7-Jan-00	-40.3			27-Feb-00	-40.7			18-Apr-00	-39.8		24
18-Nov-99	-39.8			8-Jan-00	-40.7			28-Feb-00	-40.5			19-Apr-00	-40		25
19-Nov-99	-39.8			9-Jan-00	-40.5			29-Feb-00	-40.7			20-Apr-00	-40.2		26
20-Nov-99	-39.3			10-Jan-00	-39.4			1-Mar-00	-40.7			21-Apr-00	-40.3		27
21-Nov-99	-39.4			11-Jan-00	-39.3			2-Mar-00	-40.7			22-Apr-00	-40.3		28
22-Nov-99	-38.7			12-Jan-00	-40.2			3-Mar-00	-40.7			23-Apr-00	-40.3		29
23-Nov-99	-38.9			13-Jan-00	-40.3			4-Mar-00	-40.7			24-Apr-00	-40.2		30
24-Nov-99	-38.7			14-Jan-00	-40.5			5-Mar-00	-40.7			25-Apr-00	-40.2		31
25-Nov-99	-38.7			15-Jan-00	-40.7			6-Mar-00	-40.7			26-Apr-00	-40.2		32
26-Nov-99	-38.5			16-Jan-00	-40.5			7-Mar-00	-40.9			27-Apr-00	-40.2		33
27-Nov-99	-38.7			17-Jan-00	-40.5			8-Mar-00	-40.7			28-Apr-00	-40.3		34
28-Nov-99	-39.3			18-Jan-00	-40.7			9-Mar-00	-40.7			29-Apr-00	-40.2		35
29-Nov-99	-39.4			19-Jan-00	-40.7			10-Mar-00	-40.7			30-Apr-00	-40.2		36
30-Nov-99	-39.6			20-Jan-00	-40.3			11-Mar-00	-40.7			1-May-00	-39.8		37
1-Dec-99	-40			21-Jan-00	-40.9			12-Mar-00	-40.5			2-May-00	-40.3		38
2-Dec-99	-40.3			22-Jan-00	-41.1			13-Mar-00	-40.9			3-May-00	-40.3		39
3-Dec-99	-40			23-Jan-00	-40.7			14-Mar-00	-40.9			4-May-00	-40.2		40

River Bend NCDOT Gauge B

B TABLE

Serial Number: S31FA65

CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season

JD: Julian Days During Growing Season

All Readings collected at 7:00:00

5-May-00	-40.2		41	26-Jun-00	-38.5		93	17-Aug-00	-38.5		145	8-Oct-00	-39.6		197
6-May-00	-40.3		42	27-Jun-00	-37.6		94	18-Aug-00	-37.8		146	9-Oct-00	-39.6		198
7-May-00	-40		43	28-Jun-00	-38		95	19-Aug-00	-38.4		147	10-Oct-00	-39.8		199
8-May-00	-38.9		44	29-Jun-00	-38		96	20-Aug-00	-38.4		148	11-Oct-00	-39.8		200
9-May-00	-38.9		45	30-Jun-00	-38.4		97	21-Aug-00	-38.4		149	12-Oct-00	-38.4		201
10-May-00	-39.8		46	1-Jul-00	-38.4		98	22-Aug-00	-38.2		150	13-Oct-00	-38.9		202
11-May-00	-40		47	2-Jul-00	-37.6		99	23-Aug-00	-38.4		151	14-Oct-00	-39.3		203
12-May-00	-40		48	3-Jul-00	-36.7		100	24-Aug-00	-39.1		152	15-Oct-00	-39.4		204
13-May-00	-39.8		49	4-Jul-00	-37.8		101	25-Aug-00	-39.3		153	16-Oct-00	-40		205
14-May-00	-40		50	5-Jul-00	-38.7		102	26-Aug-00	-39.3		154	17-Oct-00	-40.2		206
15-May-00	-39.1		51	6-Jul-00	-39.1		103	27-Aug-00	-39.4		155	18-Oct-00	-40		207
16-May-00	-39.1		52	7-Jul-00	-39.6		104	28-Aug-00	-39.8		156	19-Oct-00	-40		208
17-May-00	-40.2		53	8-Jul-00	-39.3		105	29-Aug-00	-39.8		157	20-Oct-00	-40		209
18-May-00	-40.2		54	9-Jul-00	-37.5		106	30-Aug-00	-39.8		158	21-Oct-00	-40		210
19-May-00	-40		55	10-Jul-00	-37.3		107	31-Aug-00	-39.6		159	22-Oct-00	-39.8		211
20-May-00	-40		56	11-Jul-00	-36.9		108	1-Sep-00	-39.3		160	23-Oct-00	-40.2		212
21-May-00	-39.6		57	12-Jul-00	-37.6		109	2-Sep-00	-39.3		161	24-Oct-00	-40.2		213
22-May-00	-39.4		58	13-Jul-00	-37.1		110	3-Sep-00	-40.2		162	25-Oct-00	-39.8		214
23-May-00	-40		59	14-Jul-00	-37.6		111	4-Sep-00	-40.2		163	26-Oct-00	-38.9		215
24-May-00	-38.9		60	15-Jul-00	-38.2		112	5-Sep-00	-40		164	27-Oct-00	-37.8		216
25-May-00	-39.3		61	16-Jul-00	-38.2		113	6-Sep-00	-37.6		165	28-Oct-00	-38.4		217
26-May-00	-39.4		62	17-Jul-00	-38.4		114	7-Sep-00	-38.9		166	29-Oct-00	-39.4		218
27-May-00	-39.4		63	18-Jul-00	-38.4		115	8-Sep-00	-38.7		167	30-Oct-00	-39.8		219
28-May-00	-39.4		64	19-Jul-00	-37.5		116	9-Sep-00	-39.3		168	31-Oct-00	-39.6		220
29-May-00	-39.3		65	20-Jul-00	-37.6		117	10-Sep-00	-38		169	1-Nov-00	-38.2		221
30-May-00	-39.3		66	21-Jul-00	-38		118	11-Sep-00	-38.2		170	2-Nov-00	-40		222
31-May-00	-39.1		67	22-Jul-00	-37.6		119	12-Sep-00	-37.6		171	3-Nov-00	-27.7		223
1-Jun-00	-39.1		68	23-Jul-00	-38.2		120	13-Sep-00	-38.5		172	4-Nov-00	-27.7		224
2-Jun-00	-38.5		69	24-Jul-00	-38.4		121	14-Sep-00	-38.7		173	5-Nov-00	-27.7		
3-Jun-00	-38.4		70	25-Jul-00	-38.4		122	15-Sep-00	-38.9		174	6-Nov-00	-28.3		
4-Jun-00	-38.9		71	26-Jul-00	-38.7		123	16-Sep-00	-38.7		175	7-Nov-00	-28.1		
5-Jun-00	-38.7		72	27-Jul-00	-39.3		124	17-Sep-00	-38.9		176	8-Nov-00	-27.9		
6-Jun-00	-38.9		73	28-Jul-00	-38.2		125	18-Sep-00	-38.5		177	9-Nov-00	-27.1		
7-Jun-00	-38.4		74	29-Jul-00	-38.5		126	19-Sep-00	-38.9		178	10-Nov-00	-26.2		
8-Jun-00	-38.4		75	30-Jul-00	-38.9		127	20-Sep-00	-38.9		179	11-Nov-00	-26.2		
9-Jun-00	-38.5		76	31-Jul-00	-39.1		128	21-Sep-00	-39.1		180	12-Nov-00	-25.6		
10-Jun-00	-39.1		77	1-Aug-00	-38.4		129	22-Sep-00	-39.4		181	13-Nov-00	-25.2		
11-Jun-00	-39.3		78	2-Aug-00	-38.7		130	23-Sep-00	-39.4		182	14-Nov-00	-24.5		
12-Jun-00	-39.3		79	3-Aug-00	-38.7		131	24-Sep-00	-39.6		183	15-Nov-00	-23.5		
13-Jun-00	-38.7		80	4-Aug-00	-39.6		132	25-Sep-00	-40		184	16-Nov-00			
14-Jun-00	-38.7		81	5-Aug-00	-39.4		133	26-Sep-00	-40		185	17-Nov-00			
15-Jun-00	-38		82	6-Aug-00	-38.5		134	27-Sep-00	-40		186	18-Nov-00			
16-Jun-00	-37.6		83	7-Aug-00	-38.9		135	28-Sep-00	-40		187	19-Nov-00			
17-Jun-00	-38.5		84	8-Aug-00	-39.1		136	29-Sep-00	-39.8		188	20-Nov-00			
18-Jun-00	-38.7		85	9-Aug-00	-39.4		137	30-Sep-00	-39.8		189	21-Nov-00			
19-Jun-00	-38.9		86	10-Aug-00	-39.8		138	1-Oct-00	-39.8		190	22-Nov-00			
20-Jun-00	-38.9		87	11-Aug-00	-39.4		139	2-Oct-00	-39.8		191	23-Nov-00			
21-Jun-00	-38.9		88	12-Aug-00	-38.4		140	3-Oct-00	-39.8		192	24-Nov-00			
22-Jun-00	-38.7		89	13-Aug-00	-38.2		141	4-Oct-00	-39.6		193	25-Nov-00			
23-Jun-00	-38.4		90	14-Aug-00	-38.4		142	5-Oct-00	-39.4		194	26-Nov-00			
24-Jun-00	-38.5		91	15-Aug-00	-38		143	6-Oct-00	-39.8		195				
25-Jun-00	-39.1		92	16-Aug-00	-38.4		144	7-Oct-00	-39.8		196				

C TABLE

River Bend NCDOT Gauge C
Serial Number: S31F751
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 7:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
20-Jun-00	-41.5		87	10-Aug-00	-40.6		138	30-Sep-00	-40.6		189	20-Nov-00			
21-Jun-00	-28.4		88	11-Aug-00	-40.8		139	1-Oct-00	-40.6		190	21-Nov-00			
22-Jun-00	-30.8		89	12-Aug-00	-40.8		140	2-Oct-00	-40.4		191	22-Nov-00			
23-Jun-00	-32.1		90	13-Aug-00	-40.8		141	3-Oct-00	-40.6		192	23-Nov-00			
24-Jun-00	-33.6		91	14-Aug-00	-40.6		142	4-Oct-00	-40.4		193	24-Nov-00			
25-Jun-00	-34.8		92	15-Aug-00	-40.8		143	5-Oct-00	-40.4		194	25-Nov-00			
26-Jun-00	-35.7		93	16-Aug-00	-40.8		144	6-Oct-00	-40.6		195	26-Nov-00			
27-Jun-00	-36.8		94	17-Aug-00	-40.6		145	7-Oct-00	-40.4		196	27-Nov-00			
28-Jun-00	-37.4		95	18-Aug-00	-40.8		146	8-Oct-00	-40.4		197	28-Nov-00			
29-Jun-00	-37		96	19-Aug-00	-40.8		147	9-Oct-00	-40.6		198	29-Nov-00			
30-Jun-00	-36.8		97	20-Aug-00	-40.6		148	10-Oct-00	-40.4		199	30-Nov-00			
1-Jul-00	-38		98	21-Aug-00	-40.6		149	11-Oct-00	-40.6		200	1-Dec-00			
2-Jul-00	-38.3		99	22-Aug-00	-40.6		150	12-Oct-00	-40.6		201	2-Dec-00			
3-Jul-00	-38.7		100	23-Aug-00	-40.6		151	13-Oct-00	-40.8		202	3-Dec-00			
4-Jul-00	-40.8		101	24-Aug-00	-40.6		152	14-Oct-00	-40.8		203	4-Dec-00			
5-Jul-00	-40.8		102	25-Aug-00	-40.6		153	15-Oct-00	-40.6		204	5-Dec-00			
6-Jul-00	-40.6		103	26-Aug-00	-40.8		154	16-Oct-00	-40.8		205	6-Dec-00			
7-Jul-00	-40.8		104	27-Aug-00	-40.6		155	17-Oct-00	-41		206	7-Dec-00			
8-Jul-00	-40.8		105	28-Aug-00	-40.6		156	18-Oct-00	-41		207	8-Dec-00			
9-Jul-00	-40.8		106	29-Aug-00	-40.6		157	19-Oct-00	-40.8		208	9-Dec-00			
10-Jul-00	-40.6		107	30-Aug-00	-40.6		158	20-Oct-00	-41		209	10-Dec-00			
11-Jul-00	-40.8		108	31-Aug-00	-40.6		159	21-Oct-00	-40.8		210	11-Dec-00			
12-Jul-00	-40.8		109	1-Sep-00	-40.6		160	22-Oct-00	-41		211	12-Dec-00			
13-Jul-00	-40.8		110	2-Sep-00	-40.8		161	23-Oct-00	-41		212	13-Dec-00			
14-Jul-00	-40.8		111	3-Sep-00	-40.8		162	24-Oct-00	-41		213	14-Dec-00			
15-Jul-00	-40.6		112	4-Sep-00	-40.8		163	25-Oct-00	-40.8		214	15-Dec-00			
16-Jul-00	-40.6		113	5-Sep-00	-40.8		164	26-Oct-00	-41		215	16-Dec-00			
17-Jul-00	-40.4		114	6-Sep-00	-40.6		165	27-Oct-00	-41		216	17-Dec-00			
18-Jul-00	-40.4		115	7-Sep-00	-40.6		166	28-Oct-00	-41		217	18-Dec-00			
19-Jul-00	-40.6		116	8-Sep-00	-40.6		167	29-Oct-00	-40.8		218	19-Dec-00			
20-Jul-00	-40.4		117	9-Sep-00	-40.6		168	30-Oct-00	-40.6		219	20-Dec-00			
21-Jul-00	-40.6		118	10-Sep-00	-40.6		169	31-Oct-00	-40.8		220	21-Dec-00			
22-Jul-00	-40.6		119	11-Sep-00	-40.6		170	1-Nov-00	-40.8		221	22-Dec-00			
23-Jul-00	-40.6		120	12-Sep-00	-40.6		171	2-Nov-00	-40.8		222	23-Dec-00			
24-Jul-00	-40.6		121	13-Sep-00	-40.6		172	3-Nov-00	-40.8		223	24-Dec-00			
25-Jul-00	-40.6		122	14-Sep-00	-40.6		173	4-Nov-00	-40.8		224	25-Dec-00			
26-Jul-00	-40.4		123	15-Sep-00	-40.8		174	5-Nov-00	-40.8			26-Dec-00			
27-Jul-00	-40.4		124	16-Sep-00	-40.6		175	6-Nov-00	-40.8			27-Dec-00			
28-Jul-00	-40.6		125	17-Sep-00	-40.4		176	7-Nov-00	-40.8			28-Dec-00			
29-Jul-00	-40.4		126	18-Sep-00	-40.6		177	8-Nov-00	-41			29-Dec-00			
30-Jul-00	-40.4		127	19-Sep-00	-40.6		178	9-Nov-00	-41			30-Dec-00			
31-Jul-00	-40.4		128	20-Sep-00	-40.8		179	10-Nov-00	-40.8			31-Dec-00			
1-Aug-00	-40.4		129	21-Sep-00	-40.8		180	11-Nov-00	-40.8			1-Jan-01			
2-Aug-00	-40.6		130	22-Sep-00	-40.8		181	12-Nov-00	-40.8			2-Jan-01			
3-Aug-00	-40.8		131	23-Sep-00	-40.6		182	13-Nov-00	-40.8			3-Jan-01			
4-Aug-00	-40.8		132	24-Sep-00	-40.8		183	14-Nov-00	-40.8			4-Jan-01			
5-Aug-00	-40.8		133	25-Sep-00	-40.8		184	15-Nov-00	-40.8			5-Jan-01			
6-Aug-00	-40.8		134	26-Sep-00	-40.6		185	16-Nov-00				6-Jan-01			
7-Aug-00	-40.8		135	27-Sep-00	-40.4		186	17-Nov-00				7-Jan-01			
8-Aug-00	-40.8		136	28-Sep-00	-40.4		187	18-Nov-00				8-Jan-01			
9-Aug-00	-40.8		137	29-Sep-00	-40.6		188	19-Nov-00				9-Jan-01			

E TABLE

River Bend NCDOT Gauge E
Serial Number: S31F799
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 7:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
20-Jun-00	-40.8		87	10-Aug-00	-3.2	1	138	30-Sep-00	-24.1		189	20-Nov-00			
21-Jun-00	-1.3	1	88	11-Aug-00	-10.2	2	139	1-Oct-00	-25		190	21-Nov-00			
22-Jun-00	-3.4	2	89	12-Aug-00	-16.9		140	2-Oct-00	-26		191	22-Nov-00			
23-Jun-00	-9.7	3	90	13-Aug-00	-19.9		141	3-Oct-00	-27.1		192	23-Nov-00			
24-Jun-00	-16.3		91	14-Aug-00	-20.9		142	4-Oct-00	-28.5		193	24-Nov-00			
25-Jun-00	-19.9		92	15-Aug-00	-23		143	5-Oct-00	-29.2		194	25-Nov-00			
26-Jun-00	-22		93	16-Aug-00	-24.3		144	6-Oct-00	-30		195	26-Nov-00			
27-Jun-00	-23.7		94	17-Aug-00	-26		145	7-Oct-00	-31.3		196	27-Nov-00			
28-Jun-00	-22.2		95	18-Aug-00	-27.1		146	8-Oct-00	-32.6		197	28-Nov-00			
29-Jun-00	-20.7		96	19-Aug-00	-28.3		147	9-Oct-00	-33.2		198	29-Nov-00			
30-Jun-00	-18.4		97	20-Aug-00	-29.6		148	10-Oct-00	-34		199	30-Nov-00			
1-Jul-00	-21.3		98	21-Aug-00	-30.5		149	11-Oct-00	-34.5		200	1-Dec-00			
2-Jul-00	-23.1		99	22-Aug-00	-31.9		150	12-Oct-00	-35.1		201	2-Dec-00			
3-Jul-00	-24.9		100	23-Aug-00	-33		151	13-Oct-00	-35.3		202	3-Dec-00			
4-Jul-00	-26.4		101	24-Aug-00	-34		152	14-Oct-00	-35.3		203	4-Dec-00			
5-Jul-00	-27.1		102	25-Aug-00	-34.5		153	15-Oct-00	-35.3		204	5-Dec-00			
6-Jul-00	-27.9		103	26-Aug-00	-34.9		154	16-Oct-00	-35.3		205	6-Dec-00			
7-Jul-00	-29.2		104	27-Aug-00	-34.9		155	17-Oct-00	-35.1		206	7-Dec-00			
8-Jul-00	-30.4		105	28-Aug-00	-7.6	1	156	18-Oct-00	-35.1		207	8-Dec-00			
9-Jul-00	-31.3		106	29-Aug-00	-15		157	19-Oct-00	-35.1		208	9-Dec-00			
10-Jul-00	-32.4		107	30-Aug-00	-19.5		158	20-Oct-00	-35.3		209	10-Dec-00			
11-Jul-00	-33.8		108	31-Aug-00	-14.6		159	21-Oct-00	-35.3		210	11-Dec-00			
12-Jul-00	-34		109	1-Sep-00	-16.3		160	22-Oct-00	-35.3		211	12-Dec-00			
13-Jul-00	-34		110	2-Sep-00	-15.2		161	23-Oct-00	-35.1		212	13-Dec-00			
14-Jul-00	-34.2		111	3-Sep-00	-16.9		162	24-Oct-00	-35.3		213	14-Dec-00			
15-Jul-00	-34.2		112	4-Sep-00	-15.6		163	25-Oct-00	-35.1		214	15-Dec-00			
16-Jul-00	-34.2		113	5-Sep-00	-17.6		164	26-Oct-00	-35.3		215	16-Dec-00			
17-Jul-00	-34.3		114	6-Sep-00	-19.5		165	27-Oct-00	-35.3		216	17-Dec-00			
18-Jul-00	-34.5		115	7-Sep-00	-21.4		166	28-Oct-00	-35.1		217	18-Dec-00			
19-Jul-00	-34.5		116	8-Sep-00	-22.6		167	29-Oct-00	-35.3		218	19-Dec-00			
20-Jul-00	-34.7		117	9-Sep-00	-24.3		168	30-Oct-00	-35.3		219	20-Dec-00			
21-Jul-00	-34.7		118	10-Sep-00	-25.4		169	31-Oct-00	-35.3		220	21-Dec-00			
22-Jul-00	-34.7		119	11-Sep-00	-26.4		170	1-Nov-00	-35.3		221	22-Dec-00			
23-Jul-00	-34.9		120	12-Sep-00	-27.3		171	2-Nov-00	-35.3		222	23-Dec-00			
24-Jul-00	-34.7		121	13-Sep-00	-28.5		172	3-Nov-00	-35.3		223	24-Dec-00			
25-Jul-00	-34.7		122	14-Sep-00	-29.4		173	4-Nov-00	-35.5		224	25-Dec-00			
26-Jul-00	-34.7		123	15-Sep-00	-29.8		174	5-Nov-00	-35.3			26-Dec-00			
27-Jul-00	-34.7		124	16-Sep-00	-31.5		175	6-Nov-00	-35.5			27-Dec-00			
28-Jul-00	-34.9		125	17-Sep-00	-32.8		176	7-Nov-00	-35.3			28-Dec-00			
29-Jul-00	-34.7		126	18-Sep-00	-33.6		177	8-Nov-00	-35.3			29-Dec-00			
30-Jul-00	-34.7		127	19-Sep-00	-34		178	9-Nov-00	-35.3			30-Dec-00			
31-Jul-00	-34.7		128	20-Sep-00	-34.7		179	10-Nov-00	-35.3			31-Dec-00			
1-Aug-00	-34.7		129	21-Sep-00	-34.9		180	11-Nov-00	-35.3			1-Jan-01			
2-Aug-00	-34.7		130	22-Sep-00	-34.9		181	12-Nov-00	-35.5			2-Jan-01			
3-Aug-00	-34.7		131	23-Sep-00	-34.9		182	13-Nov-00	-35.5			3-Jan-01			
4-Aug-00	-14.8		132	24-Sep-00	-34.9		183	14-Nov-00	-35.3			4-Jan-01			
5-Aug-00	-8.9		133	25-Sep-00	-34.9		184	15-Nov-00	-35.5			5-Jan-01			
6-Aug-00	-14.8		134	26-Sep-00	-7.2	1	185	16-Nov-00				6-Jan-01			
7-Aug-00	-19.5		135	27-Sep-00	-14		186	17-Nov-00				7-Jan-01			
8-Aug-00	-22.2		136	28-Sep-00	-19		187	18-Nov-00				8-Jan-01			
9-Aug-00	-24.7		137	29-Sep-00	-22		188	19-Nov-00				9-Jan-01			

F TABLE

River Bend NCDOT Gauge F
Serial Number: S31F8C1
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 7:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
20-Jun-00	-41.3		87	10-Aug-00	0.4	13	138	30-Sep-00	-11.8	5	189	20-Nov-00			
21-Jun-00	-1.5	1	88	11-Aug-00	-3.4	14	139	1-Oct-00	-12.9		190	21-Nov-00			
22-Jun-00	-3.6	2	89	12-Aug-00	-5.6	15	140	2-Oct-00	-14.6		191	22-Nov-00			
23-Jun-00	-4.7	3	90	13-Aug-00	-7.7	16	141	3-Oct-00	-15.9		192	23-Nov-00			
24-Jun-00	-5.8	4	91	14-Aug-00	-6.7	17	142	4-Oct-00	-17		193	24-Nov-00			
25-Jun-00	-7.7	5	92	15-Aug-00	-11.8	18	143	5-Oct-00	-17.8		194	25-Nov-00			
26-Jun-00	-9.9	6	93	16-Aug-00	-14.4		144	6-Oct-00	-18.7		195	26-Nov-00			
27-Jun-00	-13.8		94	17-Aug-00	-17.2		145	7-Oct-00	-20		196	27-Nov-00			
28-Jun-00	-7.3	1	95	18-Aug-00	-19.1		146	8-Oct-00	-21.5		197	28-Nov-00			
29-Jun-00	-3.2	2	96	19-Aug-00	-19.6		147	9-Oct-00	-22.3		198	29-Nov-00			
30-Jun-00	-6.7	3	97	20-Aug-00	-21.5		148	10-Oct-00	-22.8		199	30-Nov-00			
1-Jul-00	-12.3		98	21-Aug-00	-22.4		149	11-Oct-00	-23.8		200	1-Dec-00			
2-Jul-00	-16.3		99	22-Aug-00	-23.8		150	12-Oct-00	-24.3		201	2-Dec-00			
3-Jul-00	-18.1		100	23-Aug-00	-24.7		151	13-Oct-00	-24.5		202	3-Dec-00			
4-Jul-00	-20		101	24-Aug-00	-25.4		152	14-Oct-00	-25.1		203	4-Dec-00			
5-Jul-00	-21.1		102	25-Aug-00	-26		153	15-Oct-00	-25.2		204	5-Dec-00			
6-Jul-00	-21.9		103	26-Aug-00	-25.4		154	16-Oct-00	-25.6		205	6-Dec-00			
7-Jul-00	-23.6		104	27-Aug-00	-25.4		155	17-Oct-00	-25.8		206	7-Dec-00			
8-Jul-00	-24.9		105	28-Aug-00	-2.6	1	156	18-Oct-00	-25.8		207	8-Dec-00			
9-Jul-00	-25.8		106	29-Aug-00	-2.4	2	157	19-Oct-00	-26.2		208	9-Dec-00			
10-Jul-00	-26.6		107	30-Aug-00	-3.9	3	158	20-Oct-00	-26.7		209	10-Dec-00			
11-Jul-00	-27.7		108	31-Aug-00	0	4	159	21-Oct-00	-26.9		210	11-Dec-00			
12-Jul-00	-25.1		109	1-Sep-00	-2.6	5	160	22-Oct-00	-27.3		211	12-Dec-00			
13-Jul-00	-25.1		110	2-Sep-00	-3.4	6	161	23-Oct-00	-27.7		212	13-Dec-00			
14-Jul-00	-25.1		111	3-Sep-00	-4.1	7	162	24-Oct-00	-27.9		213	14-Dec-00			
15-Jul-00	-23.9		112	4-Sep-00	-3	8	163	25-Oct-00	-27.7		214	15-Dec-00			
16-Jul-00	-23.6		113	5-Sep-00	-4.9	9	164	26-Oct-00	-27.5		215	16-Dec-00			
17-Jul-00	-25.2		114	6-Sep-00	-7.5	10	165	27-Oct-00	-27.3		216	17-Dec-00			
18-Jul-00	-26.9		115	7-Sep-00	-10.1	11	166	28-Oct-00	-27.5		217	18-Dec-00			
19-Jul-00	-28.2		116	8-Sep-00	-12.2		167	29-Oct-00	-28.1		218	19-Dec-00			
20-Jul-00	-29.4		117	9-Sep-00	-14		168	30-Oct-00	-28.2		219	20-Dec-00			
21-Jul-00	-30.3		118	10-Sep-00	-15.5		169	31-Oct-00	-28.4		220	21-Dec-00			
22-Jul-00	-30.3		119	11-Sep-00	-17		170	1-Nov-00	-28.6		221	22-Dec-00			
23-Jul-00	-30.5		120	12-Sep-00	-18.3		171	2-Nov-00	-28.8		222	23-Dec-00			
24-Jul-00	-25.4		121	13-Sep-00	-19.6		172	3-Nov-00	-28.8		223	24-Dec-00			
25-Jul-00	-24.1		122	14-Sep-00	-20.6		173	4-Nov-00	-28.4		224	25-Dec-00			
26-Jul-00	-22.6		123	15-Sep-00	-20.6		174	5-Nov-00	-28.6			26-Dec-00			
27-Jul-00	-22.1		124	16-Sep-00	-22.4		175	6-Nov-00	-28.6			27-Dec-00			
28-Jul-00	-23.2		125	17-Sep-00	-23.9		176	7-Nov-00	-28.6			28-Dec-00			
29-Jul-00	-6.2	1	126	18-Sep-00	-24.7		177	8-Nov-00	-28.2			29-Dec-00			
30-Jul-00	-8.8	2	127	19-Sep-00	-20.8		178	9-Nov-00	-27.3			30-Dec-00			
31-Jul-00	-11.4	3	128	20-Sep-00	-19.4		179	10-Nov-00	-25.1			31-Dec-00			
1-Aug-00	-3	4	129	21-Sep-00	-20.4		180	11-Nov-00	-24.1			1-Jan-01			
2-Aug-00	-1.7	5	130	22-Sep-00	-21.7		181	12-Nov-00	-23.8			2-Jan-01			
3-Aug-00	-4.7	6	131	23-Sep-00	-20.9		182	13-Nov-00	-23.4			3-Jan-01			
4-Aug-00	-1.7	7	132	24-Sep-00	-18.9		183	14-Nov-00	-22.6			4-Jan-01			
5-Aug-00	-1.9	8	133	25-Sep-00	-16.1		184	15-Nov-00	-18.9			5-Jan-01			
6-Aug-00	-3.6	9	134	26-Sep-00	-1.9	1	185	16-Nov-00				6-Jan-01			
7-Aug-00	-5.2	10	135	27-Sep-00	-4.5	2	186	17-Nov-00				7-Jan-01			
8-Aug-00	-8	11	136	28-Sep-00	-6.9	3	187	18-Nov-00				8-Jan-01			
9-Aug-00	-11.8	12	137	29-Sep-00	-9.7	4	188	19-Nov-00				9-Jan-01			

River Bend NCDOT Gauge G

G TABLE

Serial Number: S31F882

CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season

JD: Julian Days During Growing Season

All Readings collected at 7:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
20-Jun-00	-41.3		87	10-Aug-00	2.4	1	138	30-Sep-00	-11.2	6	189	20-Nov-00			
21-Jun-00	0.6	**1**	88	11-Aug-00	-2.8	2	139	1-Oct-00	-11.7	7	190	21-Nov-00			
22-Jun-00	-6.4	**2**	89	12-Aug-00	-8.6	3	140	2-Oct-00	-12.5		191	22-Nov-00			
23-Jun-00	-9.9	**3**	90	13-Aug-00	-10.8	4	141	3-Oct-00	-13		192	23-Nov-00			
24-Jun-00	-12.3		91	14-Aug-00	-8.6	5	142	4-Oct-00	-13.8		193	24-Nov-00			
25-Jun-00	-14.1		92	15-Aug-00	-12.1		143	5-Oct-00	-14.5		194	25-Nov-00			
26-Jun-00	-14.9		93	16-Aug-00	-13.6		144	6-Oct-00	-15		195	26-Nov-00			
27-Jun-00	-16.1		94	17-Aug-00	-15.4		145	7-Oct-00	-16.1		196	27-Nov-00			
28-Jun-00	-11.2		95	18-Aug-00	-16.3		146	8-Oct-00	-17.4		197	28-Nov-00			
29-Jun-00	-7.2	**1**	96	19-Aug-00	-16.5		147	9-Oct-00	-17.8		198	29-Nov-00			
30-Jun-00	-8.6	**2**	97	20-Aug-00	-18.2		148	10-Oct-00	-18.2		199	30-Nov-00			
1-Jul-00	-12.1		98	21-Aug-00	-18.5		149	11-Oct-00	-18.7		200	1-Dec-00			
2-Jul-00	-14.3		99	22-Aug-00	-19.4		150	12-Oct-00	-19.3		201	2-Dec-00			
3-Jul-00	-16.1		100	23-Aug-00	-20		151	13-Oct-00	-19.4		202	3-Dec-00			
4-Jul-00	-17.6		101	24-Aug-00	-20.4		152	14-Oct-00	-19.6		203	4-Dec-00			
5-Jul-00	-18.2		102	25-Aug-00	-20.7		153	15-Oct-00	-19.8		204	5-Dec-00			
6-Jul-00	-18.3		103	26-Aug-00	-20.4		154	16-Oct-00	-20		205	6-Dec-00			
7-Jul-00	-19.8		104	27-Aug-00	-20.5		155	17-Oct-00	-20.4		206	7-Dec-00			
8-Jul-00	-20.7		105	28-Aug-00	2.4	1	156	18-Oct-00	-20.4		207	8-Dec-00			
9-Jul-00	-21.7		106	29-Aug-00	0	2	157	19-Oct-00	-21.1		208	9-Dec-00			
10-Jul-00	-22.2		107	30-Aug-00	-6.4	3	158	20-Oct-00	-21.5		209	10-Dec-00			
11-Jul-00	-23.3		108	31-Aug-00	2.4	4	159	21-Oct-00	-21.7		210	11-Dec-00			
12-Jul-00	-19.3		109	1-Sep-00	-2.4	5	160	22-Oct-00	-21.8		211	12-Dec-00			
13-Jul-00	-19.3		110	2-Sep-00	-5	6	161	23-Oct-00	-22.4		212	13-Dec-00			
14-Jul-00	-19.6		111	3-Sep-00	-6.1	7	162	24-Oct-00	-22.6		213	14-Dec-00			
15-Jul-00	-17.8		112	4-Sep-00	-4	8	163	25-Oct-00	-22.4		214	15-Dec-00			
16-Jul-00	-18.5		113	5-Sep-00	-6.1	9	164	26-Oct-00	-22.4		215	16-Dec-00			
17-Jul-00	-20.2		114	6-Sep-00	-8.4	10	165	27-Oct-00	-22.6		216	17-Dec-00			
18-Jul-00	-22		115	7-Sep-00	-10.3	11	166	28-Oct-00	-22.8		217	18-Dec-00			
19-Jul-00	-23.5		116	8-Sep-00	-11.4	12	167	29-Oct-00	-23.5		218	19-Dec-00			
20-Jul-00	-24.6		117	9-Sep-00	-12.3		168	30-Oct-00	-23.9		219	20-Dec-00			
21-Jul-00	-25.5		118	10-Sep-00	-13.4		169	31-Oct-00	-24.2		220	21-Dec-00			
22-Jul-00	-26.4		119	11-Sep-00	-14.1		170	1-Nov-00	-24.4		221	22-Dec-00			
23-Jul-00	-26.6		120	12-Sep-00	-14.9		171	2-Nov-00	-24.6		222	23-Dec-00			
24-Jul-00	-19.3		121	13-Sep-00	-15.6		172	3-Nov-00	-24.8		223	24-Dec-00			
25-Jul-00	-18.5		122	14-Sep-00	-16.3		173	4-Nov-00	-24.8		224	25-Dec-00			
26-Jul-00	-16.9		123	15-Sep-00	-16.3		174	5-Nov-00	-24.4			26-Dec-00			
27-Jul-00	-17.1		124	16-Sep-00	-18.2		175	6-Nov-00	-25			27-Dec-00			
28-Jul-00	-18.3		125	17-Sep-00	-19.3		176	7-Nov-00	-25.1			28-Dec-00			
29-Jul-00	0.9	1	126	18-Sep-00	-19.6		177	8-Nov-00	-24.8			29-Dec-00			
30-Jul-00	-9.5	2	127	19-Sep-00	-13.6		178	9-Nov-00	-24			30-Dec-00			
31-Jul-00	-12.1		128	20-Sep-00	-14.5		179	10-Nov-00	-20.7			31-Dec-00			
1-Aug-00	-4.4	1	129	21-Sep-00	-15.2		180	11-Nov-00	-19.6			1-Jan-01			
2-Aug-00	1.1	2	130	22-Sep-00	-16.7		181	12-Nov-00	-19.3			2-Jan-01			
3-Aug-00	-6.1	3	131	23-Sep-00	-15.4		182	13-Nov-00	-19.3			3-Jan-01			
4-Aug-00	2.4	4	132	24-Sep-00	-13.6		183	14-Nov-00	-17.1			4-Jan-01			
5-Aug-00	2	5	133	25-Sep-00	-10.5	1	184	15-Nov-00	-15.6			5-Jan-01			
6-Aug-00	-4.4	6	134	26-Sep-00	2.4	2	185	16-Nov-00				6-Jan-01			
7-Aug-00	-8.1	7	135	27-Sep-00	-1.8	3	186	17-Nov-00				7-Jan-01			
8-Aug-00	-11	8	136	28-Sep-00	-7.7	4	187	18-Nov-00				8-Jan-01			
9-Aug-00	-13.4		137	29-Sep-00	-9.9	5	188	19-Nov-00				9-Jan-01			

H TABLE

River Bend NCDOT Gauge H
Serial Number: S31F820
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 7:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
20-Jun-00			87	10-Aug-00	-4.4	1	138	30-Sep-00	-15.5		189	20-Nov-00			
21-Jun-00	-42		88	11-Aug-00	-8.9	2	139	1-Oct-00	-16.1		190	21-Nov-00			
22-Jun-00	-1.1	1	89	12-Aug-00	-11	3	140	2-Oct-00	-17		191	22-Nov-00			
23-Jun-00	-3.8	2	90	13-Aug-00	-12.4		141	3-Oct-00	-17.7		192	23-Nov-00			
24-Jun-00	-6.9	3	91	14-Aug-00	-11.5		142	4-Oct-00	-17.9		193	24-Nov-00			
25-Jun-00	-9.7	4	92	15-Aug-00	-13.7		143	5-Oct-00	-18.4		194	25-Nov-00			
26-Jun-00	-11.5	5	93	16-Aug-00	-14.8		144	6-Oct-00	-18.8		195	26-Nov-00			
27-Jun-00	-13.1		94	17-Aug-00	-16.1		145	7-Oct-00	-20.3		196	27-Nov-00			
28-Jun-00	-10.6	1	95	18-Aug-00	-16.4		146	8-Oct-00	-21.7		197	28-Nov-00			
29-Jun-00	-7.7	2	96	19-Aug-00	-17.3		147	9-Oct-00	-21.9		198	29-Nov-00			
30-Jun-00	-9.3	3	97	20-Aug-00	-18.1		148	10-Oct-00	-22.3		199	30-Nov-00			
1-Jul-00	-12.2		98	21-Aug-00	-18.6		149	11-Oct-00	-22.5		200	1-Dec-00			
2-Jul-00	-14.1		99	22-Aug-00	-19.9		150	12-Oct-00	-23		201	2-Dec-00			
3-Jul-00	-15.2		100	23-Aug-00	-19.9		151	13-Oct-00	-23.2		202	3-Dec-00			
4-Jul-00	-16.3		101	24-Aug-00	-20.6		152	14-Oct-00	-23.6		203	4-Dec-00			
5-Jul-00	-17		102	25-Aug-00	-21		153	15-Oct-00	-23.7		204	5-Dec-00			
6-Jul-00	-17.3		103	26-Aug-00	-21		154	16-Oct-00	-23.9		205	6-Dec-00			
7-Jul-00	-18.3		104	27-Aug-00	-21.2		155	17-Oct-00	-24.1		206	7-Dec-00			
8-Jul-00	-19		105	28-Aug-00	-7.9	1	156	18-Oct-00	-23.7		207	8-Dec-00			
9-Jul-00	-19.7		106	29-Aug-00	-10.6	2	157	19-Oct-00	-23.9		208	9-Dec-00			
10-Jul-00	-20.3		107	30-Aug-00	-11.7	3	158	20-Oct-00	-24.7		209	10-Dec-00			
11-Jul-00	-20.8		108	31-Aug-00	-5.1	4	159	21-Oct-00	-24.8		210	11-Dec-00			
12-Jul-00	-19.5		109	1-Sep-00	-8	5	160	22-Oct-00	-25		211	12-Dec-00			
13-Jul-00	-20.3		110	2-Sep-00	-8	6	161	23-Oct-00	-25.4		212	13-Dec-00			
14-Jul-00	-21		111	3-Sep-00	-8.9	7	162	24-Oct-00	-25.6		213	14-Dec-00			
15-Jul-00	-20.8		112	4-Sep-00	-7.7	8	163	25-Oct-00	-24.8		214	15-Dec-00			
16-Jul-00	-21.2		113	5-Sep-00	-9.5	9	164	26-Oct-00	-25.2		215	16-Dec-00			
17-Jul-00	-21.7		114	6-Sep-00	-11.7	10	165	27-Oct-00	-25.4		216	17-Dec-00			
18-Jul-00	-22.5		115	7-Sep-00	-13.1		166	28-Oct-00	-25.4		217	18-Dec-00			
19-Jul-00	-22.6		116	8-Sep-00	-14.1		167	29-Oct-00	-25.7		218	19-Dec-00			
20-Jul-00	-23.4		117	9-Sep-00	-15		168	30-Oct-00	-25.9		219	20-Dec-00			
21-Jul-00	-23.6		118	10-Sep-00	-16.1		169	31-Oct-00	-26.1		220	21-Dec-00			
22-Jul-00	-23.6		119	11-Sep-00	-16.6		170	1-Nov-00	-26.7		221	22-Dec-00			
23-Jul-00	-24.1		120	12-Sep-00	-17.3		171	2-Nov-00	-26.8		222	23-Dec-00			
24-Jul-00	-22.3		121	13-Sep-00	-17.3		172	3-Nov-00	-27.2		223	24-Dec-00			
25-Jul-00	-22.3		122	14-Sep-00	-18.1		173	4-Nov-00	-26.8		224	25-Dec-00			
26-Jul-00	-21.9		123	15-Sep-00	-18.8		174	5-Nov-00	-27.6			26-Dec-00			
27-Jul-00	-21.9		124	16-Sep-00	-20.1		175	6-Nov-00	-27.2			27-Dec-00			
28-Jul-00	-22.1		125	17-Sep-00	-21.2		176	7-Nov-00	-27.9			28-Dec-00			
29-Jul-00	-14.6		126	18-Sep-00	-21.4		177	8-Nov-00	-26.8			29-Dec-00			
30-Jul-00	-16.4		127	19-Sep-00	-20.5		178	9-Nov-00	-26.1			30-Dec-00			
31-Jul-00	-17.3		128	20-Sep-00	-20.8		179	10-Nov-00	-25.9			31-Dec-00			
1-Aug-00	-15.9		129	21-Sep-00	-20.8		180	11-Nov-00	-26.7			1-Jan-01			
2-Aug-00	-13.3		130	22-Sep-00	-21.5		181	12-Nov-00	-27			2-Jan-01			
3-Aug-00	-13.9		131	23-Sep-00	-21.2		182	13-Nov-00	-27.2			3-Jan-01			
4-Aug-00	-9.5	1	132	24-Sep-00	-20.8		183	14-Nov-00	-26.3			4-Jan-01			
5-Aug-00	-7.9	2	133	25-Sep-00	-19.7		184	15-Nov-00	-26.5			5-Jan-01			
6-Aug-00	-10	3	134	26-Sep-00	-10	1	185	16-Nov-00				6-Jan-01			
7-Aug-00	-11.3	4	135	27-Sep-00	-12.2		186	17-Nov-00				7-Jan-01			
8-Aug-00	-13		136	28-Sep-00	-13.3		187	18-Nov-00				8-Jan-01			
9-Aug-00	-14.8		137	29-Sep-00	-14.6		188	19-Nov-00				9-Jan-01			

River Bend NCDOT Gauge I

I TABLE

Serial Number: S31699

CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season

JD: Julian Days During Growing Season

All Readings collected at 7:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
8-Sep-99	-28.8		167	29-Oct-99	-28.8		218	19-Dec-99	2			8-Feb-00	2		
9-Sep-99	-28.8		168	30-Oct-99	-28.8		219	20-Dec-99	2			9-Feb-00	2		
10-Sep-99	-28.8		169	31-Oct-99	-43.4		220	21-Dec-99	2			10-Feb-00	2		
11-Sep-99	-28.8		170	1-Nov-99	-43.4		221	22-Dec-99	2			11-Feb-00	2		
12-Sep-99	-28.8		171	2-Nov-99	-41.1		222	23-Dec-99	2			12-Feb-00	2		
13-Sep-99	-28.8		172	3-Nov-99	-40.9		223	24-Dec-99	2			13-Feb-00	2		
14-Sep-99	-28.8		173	4-Nov-99	-41.3		224	25-Dec-99	2			14-Feb-00	2		
15-Sep-99	-28.8		174	5-Nov-99	0.9			26-Dec-99	2			15-Feb-00	2		
16-Sep-99	-28.8		175	6-Nov-99	0.7			27-Dec-99	2			16-Feb-00	2		
17-Sep-99	-28.8		176	7-Nov-99	0.2			28-Dec-99	2			17-Feb-00	2		
18-Sep-99	-28.8		177	8-Nov-99	-3.6			29-Dec-99	2			18-Feb-00	2		
19-Sep-99	-28.8		178	9-Nov-99	-6.9			30-Dec-99	2			19-Feb-00	2		
20-Sep-99	-28.8		179	10-Nov-99	-9.8			31-Dec-99	2			20-Feb-00	2		
21-Sep-99	-28.8		180	11-Nov-99	-10.9			1-Jan-00	-0.2			21-Feb-00	2		
22-Sep-99	-28.8		181	12-Nov-99	-12.1			2-Jan-00	0.4			22-Feb-00	2		
23-Sep-99	-28.8		182	13-Nov-99	-13.8			3-Jan-00	0.5			23-Feb-00	2		
24-Sep-99	-28.8		183	14-Nov-99	-15			4-Jan-00	0.7			24-Feb-00	2		
25-Sep-99	-28.8		184	15-Nov-99	-17.4			5-Jan-00	1.8			25-Feb-00	2		
26-Sep-99	-28.8		185	16-Nov-99	-19.5			6-Jan-00	2			26-Feb-00	2		
27-Sep-99	-28.8		186	17-Nov-99	-21.5			7-Jan-00	2			27-Feb-00	2		
28-Sep-99	-28.8		187	18-Nov-99	-21.7			8-Jan-00	2			28-Feb-00	2		
29-Sep-99	-28.8		188	19-Nov-99	-21.9			9-Jan-00	2			29-Feb-00	2		
30-Sep-99	-28.8		189	20-Nov-99	-21.7			10-Jan-00	2			1-Mar-00	2		
1-Oct-99	-28.8		190	21-Nov-99	-21.7			11-Jan-00	2			2-Mar-00	2		
2-Oct-99	-28.8		191	22-Nov-99	-22.1			12-Jan-00	2			3-Mar-00	2		
3-Oct-99	-28.8		192	23-Nov-99	-22.1			13-Jan-00	2			4-Mar-00	2		
4-Oct-99	-28.8		193	24-Nov-99	-22.1			14-Jan-00	2			5-Mar-00	2		
5-Oct-99	-28.8		194	25-Nov-99	-22.1			15-Jan-00	2			6-Mar-00	1.4		
6-Oct-99	-28.8		195	26-Nov-99	-22.1			16-Jan-00	2			7-Mar-00	1.4		
7-Oct-99	-28.8		196	27-Nov-99	1.6			17-Jan-00	2			8-Mar-00	1.3		
8-Oct-99	-28.8		197	28-Nov-99	2			18-Jan-00	2			9-Mar-00	1.6		
9-Oct-99	-28.8		198	29-Nov-99	2			19-Jan-00	2			10-Mar-00	1.1		
10-Oct-99	-28.8		199	30-Nov-99	0			20-Jan-00	2			11-Mar-00	1.1		
11-Oct-99	-28.8		200	1-Dec-99	-1.1			21-Jan-00	2			12-Mar-00	1.3		
12-Oct-99	-28.8		201	2-Dec-99	-2			22-Jan-00	2			13-Mar-00	0		
13-Oct-99	-28.8		202	3-Dec-99	-2.4			23-Jan-00	2			14-Mar-00	0		
14-Oct-99	-28.8		203	4-Dec-99	-1.8			24-Jan-00	2			15-Mar-00	0.2		
15-Oct-99	-28.8		204	5-Dec-99	-2.4			25-Jan-00	2			16-Mar-00	0.2		
16-Oct-99	-28.8		205	6-Dec-99	-0.9			26-Jan-00	2			17-Mar-00	2		
17-Oct-99	-28.8		206	7-Dec-99	-1.6			27-Jan-00	2			18-Mar-00	2		
18-Oct-99	-28.8		207	8-Dec-99	-1.6			28-Jan-00	2			19-Mar-00	2		
19-Oct-99	-28.8		208	9-Dec-99	-1.8			29-Jan-00	2			20-Mar-00	2		
20-Oct-99	-28.8		209	10-Dec-99	-1.1			30-Jan-00	2			21-Mar-00	2		
21-Oct-99	-28.8		210	11-Dec-99	-0.2			31-Jan-00	2			22-Mar-00	2		
22-Oct-99	-28.8		211	12-Dec-99	-0.4			1-Feb-00	2			23-Mar-00	2		
23-Oct-99	-28.8		212	13-Dec-99	0.4			2-Feb-00	2			24-Mar-00	2		
24-Oct-99	-28.8		213	14-Dec-99	1.1			3-Feb-00	2			25-Mar-00	2		
25-Oct-99	-28.8		214	15-Dec-99	2			4-Feb-00	2			26-Mar-00	2	1	1
26-Oct-99	-28.8		215	16-Dec-99	2			5-Feb-00	2			27-Mar-00	2	2	2
27-Oct-99	-28.8		216	17-Dec-99	2			6-Feb-00	2			28-Mar-00	2	3	3
28-Oct-99	-28.8		217	18-Dec-99	2			7-Feb-00	2			29-Mar-00	2	4	4

River Bend NCDOT Gauge I

I TABLE

Serial Number: S31699

CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season

JD: Julian Days During Growing Season

All Readings collected at 7:00:00

30-Mar-00	2	5	5	21-May-00	-22.8		57	12-Jul-00	-21		109	2-Sep-00	-15.7		161
31-Mar-00	2	6	6	22-May-00	-22.6		58	13-Jul-00	-21.2		110	3-Sep-00	-20.3		162
1-Apr-00	2	7	7	23-May-00	-22.8		59	14-Jul-00	-21.2		111	4-Sep-00	-20.8		163
2-Apr-00	2	8	8	24-May-00	-22.8		60	15-Jul-00	-21.2		112	5-Sep-00	-21.2		164
3-Apr-00	2	9	9	25-May-00	-23		61	16-Jul-00	-21.3		113	6-Sep-00	-21.9		165
4-Apr-00	2	10	10	26-May-00	-22.8		62	17-Jul-00	-21.3		114	7-Sep-00	-21.7		166
5-Apr-00	2	11	11	27-May-00	-22.8		63	18-Jul-00	-21.3		115	8-Sep-00	-21.7		167
6-Apr-00	2	12	12	28-May-00	-22.8		64	19-Jul-00	-21.5		116	9-Sep-00	-21.7		168
7-Apr-00	2	13	13	29-May-00	-2.7	1	65	20-Jul-00	-21.5		117	10-Sep-00	-21.7		169
8-Apr-00	2	14	14	30-May-00	-3.3	2	66	21-Jul-00	-21.5		118	11-Sep-00	-21.7		170
9-Apr-00	2	15	15	31-May-00	-6.2	3	67	22-Jul-00	-21.5		119	12-Sep-00	-21.7		171
10-Apr-00	2	16	16	1-Jun-00	-10	4	68	23-Jul-00	-21.5		120	13-Sep-00	-21.9		172
11-Apr-00	2	17	17	2-Jun-00	-13.4		69	24-Jul-00	-21.5		121	14-Sep-00	-21.7		173
12-Apr-00	2	18	18	3-Jun-00	-15.7		70	25-Jul-00	-21.5		122	15-Sep-00	-21.9		174
13-Apr-00	2	19	19	4-Jun-00	-17.2		71	26-Jul-00	-21.5		123	16-Sep-00	-22.1		175
14-Apr-00	2	20	20	5-Jun-00	-19.9		72	27-Jul-00	-21.7		124	17-Sep-00	-22.1		176
15-Apr-00	2	21	21	6-Jun-00	-11	1	73	28-Jul-00	-21.5		125	18-Sep-00	-22.1		177
16-Apr-00	2	22	22	7-Jun-00	-14.5		74	29-Jul-00	-4.3	1	126	19-Sep-00	-21.7		178
17-Apr-00	2	23	23	8-Jun-00	-19.4		75	30-Jul-00	-18.6		127	20-Sep-00	-22.1		179
18-Apr-00	2	24	24	9-Jun-00	-22.4		76	31-Jul-00	-21.3		128	21-Sep-00	-21.9		180
19-Apr-00	2	25	25	10-Jun-00	-22.4		77	1-Aug-00	-21.3		129	22-Sep-00	-21.9		181
20-Apr-00	2	26	26	11-Jun-00	-22.6		78	2-Aug-00	-21.5		130	23-Sep-00	-21.9		182
21-Apr-00	2	27	27	12-Jun-00	-22.6		79	3-Aug-00	-21.5		131	24-Sep-00	-21.9		183
22-Apr-00	2	28	28	13-Jun-00	-22.4		80	4-Aug-00	-15.4		132	25-Sep-00	-21.5		184
23-Apr-00	2	29	29	14-Jun-00	-22.3		81	5-Aug-00	-12.5		133	26-Sep-00	-6	1	185
24-Apr-00	2	30	30	15-Jun-00	-22.4		82	6-Aug-00	-19.5		134	27-Sep-00	-21.9		186
25-Apr-00	2	31	31	16-Jun-00	1.8	1	83	7-Aug-00	-21.5		135	28-Sep-00	-21.9		187
26-Apr-00	2	32	32	17-Jun-00	2	2	84	8-Aug-00	-21.7		136	29-Sep-00	-22.1		188
27-Apr-00	2	33	33	18-Jun-00	1.8	3	85	9-Aug-00	-21.7		137	30-Sep-00	-22.1		189
28-Apr-00	2	34	34	19-Jun-00	0.2	4	86	10-Aug-00	-1.4	1	138	1-Oct-00	-21.9		190
29-Apr-00	2	35	35	20-Jun-00	2	5	87	11-Aug-00	-6	2	139	2-Oct-00	-22.1		191
30-Apr-00	2	36	36	21-Jun-00	2	6	88	12-Aug-00	-16.3		140	3-Oct-00	-22.1		192
1-May-00	2	37	37	22-Jun-00	2	7	89	13-Aug-00	-21.7		141	4-Oct-00	-21.9		193
2-May-00	2	38	38	23-Jun-00	1.6	8	90	14-Aug-00	-21.7		142	5-Oct-00	-22.1		194
3-May-00	2	39	39	24-Jun-00	0.9	9	91	15-Aug-00	-21.9		143	6-Oct-00	-21.9		195
4-May-00	2	40	40	25-Jun-00	-0.7	10	92	16-Aug-00	-21.9		144	7-Oct-00	-22.1		196
5-May-00	2	41	41	26-Jun-00	-2.9	11	93	17-Aug-00	-21.9		145	8-Oct-00	-22.3		197
6-May-00	2	42	42	27-Jun-00	-8.5	12	94	18-Aug-00	-21.9		146	9-Oct-00	-22.3		198
7-May-00	2	43	43	28-Jun-00	-5.6	13	95	19-Aug-00	-21.9		147	10-Oct-00	-22.4		199
8-May-00	0.2	44	44	29-Jun-00	-5.8	14	96	20-Aug-00	-22.1		148	11-Oct-00	-22.4		200
9-May-00	-1.1	45	45	30-Jun-00	-5.4	15	97	21-Aug-00	-22.1		149	12-Oct-00	-22.4		201
10-May-00	-4.5	46	46	1-Jul-00	-8.7	16	98	22-Aug-00	-21.9		150	13-Oct-00	-22.4		202
11-May-00	-10.9	47	47	2-Jul-00	-13.8		99	23-Aug-00	-22.1		151	14-Oct-00	-22.4		203
12-May-00	-13.4		48	3-Jul-00	-17.2		100	24-Aug-00	-21.9		152	15-Oct-00	-22.4		204
13-May-00	-15.2		49	4-Jul-00	-20.3		101	25-Aug-00	-21.5		153	16-Oct-00	-22.4		205
14-May-00	-14.7		50	5-Jul-00	-20.8		102	26-Aug-00	-21.5		154	17-Oct-00	-22.4		206
15-May-00	-17.4		51	6-Jul-00	-20.6		103	27-Aug-00	-21.7		155	18-Oct-00	-22.4		207
16-May-00	-20.6		52	7-Jul-00	-21.2		104	28-Aug-00	-2.2	1	156	19-Oct-00	-22.4		208
17-May-00	-22.3		53	8-Jul-00	-21		105	29-Aug-00	-2.5	2	157	20-Oct-00	-22.6		209
18-May-00	-22.6		54	9-Jul-00	-21		106	30-Aug-00	-16.1		158	21-Oct-00	-22.6		210
19-May-00	-22.8		55	10-Jul-00	-21.2		107	31-Aug-00	-11.9	1	159	22-Oct-00	-22.6		211
20-May-00	-22.6		56	11-Jul-00	-21		108	1-Sep-00	-20.4		160	23-Oct-00	-22.6		212

River Bend NCDOT Gauge I

I TABLE

Serial Number: S31699

CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season

JD: Julian Days During Growing Season

All Readings collected at 7:00:00

24-Oct-00	-22.6		213												
25-Oct-00	-20.6		214												
26-Oct-00	-22.3		215												
27-Oct-00	-22.4		216												
28-Oct-00	-22.6		217												
29-Oct-00	-22.6		218												
30-Oct-00	-22.8		219												
31-Oct-00	-22.8		220												
1-Nov-00	-22.8		221												
2-Nov-00	-22.8		222												
3-Nov-00	-22.8		223												
4-Nov-00	-22.6		224												
5-Nov-00	-22.8														
6-Nov-00	-22.8														
7-Nov-00	-22.6														
8-Nov-00	-22.4														
9-Nov-00	-22.3														
10-Nov-00	-22.6														
11-Nov-00	-22.8														
12-Nov-00	-22.8														
13-Nov-00	-22.8														
14-Nov-00	-22.4														
15-Nov-00	-22.8														

K TABLE

River Bend NCDOT Gauge K
Serial Number: S31F8D9
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 7:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
8-Sep-99			167	29-Oct-99	-28.5		218	19-Dec-99	-28.5			8-Feb-00	3		
9-Sep-99			168	30-Oct-99	-28.5		219	20-Dec-99	-28.5			9-Feb-00	3		
10-Sep-99	-28.5		169	31-Oct-99	-28.5		220	21-Dec-99	-28.5			10-Feb-00	3		
11-Sep-99	-28.5		170	1-Nov-99	-28.5		221	22-Dec-99	-28.5			11-Feb-00	3		
12-Sep-99	-28.5		171	2-Nov-99	-28.5		222	23-Dec-99	-28.5			12-Feb-00	3		
13-Sep-99	-28.5		172	3-Nov-99	-28.5		223	24-Dec-99	-28.5			13-Feb-00	3		
14-Sep-99	-28.5		173	4-Nov-99	-28.5		224	25-Dec-99	-28.5			14-Feb-00	3		
15-Sep-99	-28.5		174	5-Nov-99	-28.5			26-Dec-99	-28.5			15-Feb-00	3		
16-Sep-99	-28.5		175	6-Nov-99	-28.5			27-Dec-99	-28.5			16-Feb-00	3		
17-Sep-99	-28.5		176	7-Nov-99	-28.5			28-Dec-99	-28.5			17-Feb-00	3		
18-Sep-99	-28.5		177	8-Nov-99	-28.5			29-Dec-99	-28.5			18-Feb-00	3		
19-Sep-99	-28.5		178	9-Nov-99	-28.5			30-Dec-99	-28.5			19-Feb-00	3		
20-Sep-99	-28.5		179	10-Nov-99	-28.5			31-Dec-99	-28.5			20-Feb-00	3		
21-Sep-99	-28.5		180	11-Nov-99	-28.5			1-Jan-00	-28.5			21-Feb-00	3		
22-Sep-99	-28.5		181	12-Nov-99	-28.5			2-Jan-00	-28.5			22-Feb-00	3		
23-Sep-99	-28.5		182	13-Nov-99	-28.5			3-Jan-00	-28.5			23-Feb-00	3		
24-Sep-99	-28.5		183	14-Nov-99	-28.5			4-Jan-00	-28.5			24-Feb-00	3		
25-Sep-99	-28.5		184	15-Nov-99	-28.5			5-Jan-00	-28.5			25-Feb-00	3		
26-Sep-99	-28.5		185	16-Nov-99	-28.5			6-Jan-00	-28.5			26-Feb-00	3		
27-Sep-99	-28.5		186	17-Nov-99	-28.5			7-Jan-00	-28.5			27-Feb-00	3		
28-Sep-99	-28.5		187	18-Nov-99	-28.5			8-Jan-00	-28.5			28-Feb-00	3		
29-Sep-99	-28.5		188	19-Nov-99	-28.5			9-Jan-00	-28.5			29-Feb-00	3		
30-Sep-99	-28.5		189	20-Nov-99	-28.5			10-Jan-00	-28.5			1-Mar-00	3		
1-Oct-99	-28.5		190	21-Nov-99	-28.5			11-Jan-00	-28.5			2-Mar-00	3		
2-Oct-99	-28.5		191	22-Nov-99	-28.5			12-Jan-00	-28.5			3-Mar-00	3		
3-Oct-99	-28.5		192	23-Nov-99	-28.5			13-Jan-00	-28.5			4-Mar-00	3		
4-Oct-99	-28.5		193	24-Nov-99	-28.5			14-Jan-00	-28.5			5-Mar-00	3		
5-Oct-99	-28.5		194	25-Nov-99	-28.5			15-Jan-00	-28.5			6-Mar-00	3		
6-Oct-99	-28.5		195	26-Nov-99	-28.5			16-Jan-00	-28.5			7-Mar-00	3		
7-Oct-99	-28.5		196	27-Nov-99	-28.5			17-Jan-00	-28.5			8-Mar-00	3		
8-Oct-99	-28.5		197	28-Nov-99	-28.5			18-Jan-00	-28.5			9-Mar-00	3		
9-Oct-99	-28.5		198	29-Nov-99	-28.5			19-Jan-00	-28.5			10-Mar-00	3		
10-Oct-99	-28.5		199	30-Nov-99	-28.5			20-Jan-00	-28.5			11-Mar-00	3		
11-Oct-99	-28.5		200	1-Dec-99	-28.5			21-Jan-00	-28.5			12-Mar-00	3		
12-Oct-99	-28.5		201	2-Dec-99	-28.5			22-Jan-00	-28.5			13-Mar-00	3		
13-Oct-99	-28.5		202	3-Dec-99	-28.5			23-Jan-00	-28.5			14-Mar-00	3		
14-Oct-99	-28.5		203	4-Dec-99	-28.5			24-Jan-00	-28.5			15-Mar-00	3		
15-Oct-99	-28.5		204	5-Dec-99	-28.5			25-Jan-00	-28.5			16-Mar-00	3		
16-Oct-99	-28.5		205	6-Dec-99	-28.5			26-Jan-00	-28.5			17-Mar-00	3		
17-Oct-99	-28.5		206	7-Dec-99	-28.5			27-Jan-00	-28.5			18-Mar-00	3		
18-Oct-99	-28.5		207	8-Dec-99	-28.5			28-Jan-00	-28.5			19-Mar-00	3		
19-Oct-99	-28.5		208	9-Dec-99	-28.5			29-Jan-00	-43.5			20-Mar-00	3		
20-Oct-99	-28.5		209	10-Dec-99	-28.5			30-Jan-00	-43.5			21-Mar-00	3		
21-Oct-99	-28.5		210	11-Dec-99	-28.5			31-Jan-00	-43.5			22-Mar-00	3		
22-Oct-99	-28.5		211	12-Dec-99	-28.5			1-Feb-00	-41.1			23-Mar-00	3		
23-Oct-99	-28.5		212	13-Dec-99	-28.5			2-Feb-00	-40.6			24-Mar-00	3		
24-Oct-99	-28.5		213	14-Dec-99	-28.5			3-Feb-00	-40.6			25-Mar-00	3		
25-Oct-99	-28.5		214	15-Dec-99	-28.5			4-Feb-00	-40.6			26-Mar-00	3	1	1
26-Oct-99	-28.5		215	16-Dec-99	-28.5			5-Feb-00	-40.6			27-Mar-00	3	2	2
27-Oct-99	-28.5		216	17-Dec-99	-28.5			6-Feb-00	-40.6			28-Mar-00	3	3	3
28-Oct-99	-28.5		217	18-Dec-99	-28.5			7-Feb-00	3			29-Mar-00	3	4	4

K TABLE

River Bend NCDOT Gauge K
Serial Number: S31F8D9
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 7:00:00

30-Mar-00	3	5	5	21-May-00	3	57	57	12-Jul-00	3	109	109	2-Sep-00	-7	3	161
31-Mar-00	3	6	6	22-May-00	3	58	58	13-Jul-00	3	110	110	3-Sep-00	-2.4	4	162
1-Apr-00	3	7	7	23-May-00	3	59	59	14-Jul-00	3	111	111	4-Sep-00	-5.4	5	163
2-Apr-00	3	8	8	24-May-00	3	60	60	15-Jul-00	3	112	112	5-Sep-00	-3	6	164
3-Apr-00	3	9	9	25-May-00	3	61	61	16-Jul-00	3	113	113	6-Sep-00	-3.5	7	165
4-Apr-00	3	10	10	26-May-00	3	62	62	17-Jul-00	3	114	114	7-Sep-00	-3.1	8	166
5-Apr-00	3	11	11	27-May-00	3	63	63	18-Jul-00	3	115	115	8-Sep-00	-3.9	9	167
6-Apr-00	3	12	12	28-May-00	3	64	64	19-Jul-00	3	116	116	9-Sep-00	-5.9	10	168
7-Apr-00	3	13	13	29-May-00	3	65	65	20-Jul-00	3	117	117	10-Sep-00	-8.1	11	169
8-Apr-00	3	14	14	30-May-00	3	66	66	21-Jul-00	2.6	118	118	11-Sep-00	-9.8	12	170
9-Apr-00	3	15	15	31-May-00	3	67	67	22-Jul-00	1.9	119	119	12-Sep-00	-11.1	13	171
10-Apr-00	3	16	16	1-Jun-00	3	68	68	23-Jul-00	0.4	120	120	13-Sep-00	-13.1		172
11-Apr-00	3	17	17	2-Jun-00	3	69	69	24-Jul-00	-0.6	121	121	14-Sep-00	-15		173
12-Apr-00	3	18	18	3-Jun-00	3	70	70	25-Jul-00	-1.5	122	122	15-Sep-00	-16.9		174
13-Apr-00	3	19	19	4-Jun-00	3	71	71	26-Jul-00	-2	123	123	16-Sep-00	-18.7		175
14-Apr-00	3	20	20	5-Jun-00	3	72	72	27-Jul-00	0.4	124	124	17-Sep-00	-20.4		176
15-Apr-00	3	21	21	6-Jun-00	3	73	73	28-Jul-00	-0.4	125	125	18-Sep-00	-20.9		177
16-Apr-00	3	22	22	7-Jun-00	3	74	74	29-Jul-00	-0.2	126	126	19-Sep-00	-23.7		178
17-Apr-00	3	23	23	8-Jun-00	3	75	75	30-Jul-00	-1.1	127	127	20-Sep-00	-25.6		179
18-Apr-00	3	24	24	9-Jun-00	3	76	76	31-Jul-00	-2.8	128	128	21-Sep-00	-26.7		180
19-Apr-00	3	25	25	10-Jun-00	3	77	77	1-Aug-00	0.9	129	129	22-Sep-00	-25		181
20-Apr-00	3	26	26	11-Jun-00	3	78	78	2-Aug-00	0.7	130	130	23-Sep-00	-25		182
21-Apr-00	3	27	27	12-Jun-00	3	79	79	3-Aug-00	0	131	131	24-Sep-00	-26.7		183
22-Apr-00	3	28	28	13-Jun-00	3	80	80	4-Aug-00	0.4	132	132	25-Sep-00	-28.3		184
23-Apr-00	3	29	29	14-Jun-00	3	81	81	5-Aug-00	0.7	133	133	26-Sep-00	-28.3		185
24-Apr-00	3	30	30	15-Jun-00	3	82	82	6-Aug-00	0	134	134	27-Sep-00	-26.1		186
25-Apr-00	3	31	31	16-Jun-00	3	83	83	7-Aug-00	1.7	135	135	28-Sep-00	-23.9		187
26-Apr-00	3	32	32	17-Jun-00	3	84	84	8-Aug-00	1.9	136	136	29-Sep-00	-9.6	1	188
27-Apr-00	3	33	33	18-Jun-00	3	85	85	9-Aug-00	1.5	137	137	30-Sep-00	-13.9		189
28-Apr-00	3	34	34	19-Jun-00	3	86	86	10-Aug-00	0.7	138	138	1-Oct-00	-15.9		190
29-Apr-00	3	35	35	20-Jun-00	3	87	87	11-Aug-00	-0.6	139	139	2-Oct-00	-18		191
30-Apr-00	3	36	36	21-Jun-00	3	88	88	12-Aug-00	-2.4	140	140	3-Oct-00	-19.6		192
1-May-00	3	37	37	22-Jun-00	3	89	89	13-Aug-00	1.1	141	141	4-Oct-00	-20.2		193
2-May-00	3	38	38	23-Jun-00	3	90	90	14-Aug-00	0.6	142	142	5-Oct-00	-21.1		194
3-May-00	3	39	39	24-Jun-00	3	91	91	15-Aug-00	-0.7	143	143	6-Oct-00	-21.5		195
4-May-00	3	40	40	25-Jun-00	3	92	92	16-Aug-00	-1.9	144	144	7-Oct-00	-22.8		196
5-May-00	3	41	41	26-Jun-00	3	93	93	17-Aug-00	-2	145	145	8-Oct-00	-23.9		197
6-May-00	3	42	42	27-Jun-00	3	94	94	18-Aug-00	-4.3	146	146	9-Oct-00	-25.2		198
7-May-00	3	43	43	28-Jun-00	3	95	95	19-Aug-00	-5.9	147	147	10-Oct-00	-30.2		199
8-May-00	3	44	44	29-Jun-00	3	96	96	20-Aug-00	-9.8	148	148	11-Oct-00	-30.7		200
9-May-00	3	45	45	30-Jun-00	3	97	97	21-Aug-00	-11.5	149	149	12-Oct-00	-31.5		201
10-May-00	3	46	46	1-Jul-00	3	98	98	22-Aug-00	-12.4		150	13-Oct-00	-32		202
11-May-00	3	47	47	2-Jul-00	3	99	99	23-Aug-00	-15.4		151	14-Oct-00	-32.4		203
12-May-00	3	48	48	3-Jul-00	3	100	100	24-Aug-00	-16.7		152	15-Oct-00	-32.8		204
13-May-00	3	49	49	4-Jul-00	3	101	101	25-Aug-00	-18.5		153	16-Oct-00	-33.3		205
14-May-00	3	50	50	5-Jul-00	3	102	102	26-Aug-00	-20.2		154	17-Oct-00	-33.9		206
15-May-00	3	51	51	6-Jul-00	3	103	103	27-Aug-00	-21.1		155	18-Oct-00	-34.1		207
16-May-00	3	52	52	7-Jul-00	3	104	104	28-Aug-00	-22		156	19-Oct-00	-34.5		208
17-May-00	3	53	53	8-Jul-00	3	105	105	29-Aug-00	-22.2		157	20-Oct-00	-35.2		209
18-May-00	3	54	54	9-Jul-00	3	106	106	30-Aug-00	-23.5		158	21-Oct-00	-35.4		210
19-May-00	3	55	55	10-Jul-00	3	107	107	31-Aug-00	-1.9	1	159	22-Oct-00	-35.6		211
20-May-00	3	56	56	11-Jul-00	3	108	108	1-Sep-00	-5	2	160	23-Oct-00	-36.1		212

K TABLE

River Bend NCDOT Gauge K
Serial Number: S31F8D9
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 7:00:00

24-Oct-00	-36.5		213												
25-Oct-00	-35.4		214												
26-Oct-00	-36.7		215												
27-Oct-00	-37		216												
28-Oct-00	-37		217												
29-Oct-00	-37.8		218												
30-Oct-00	-38		219												
31-Oct-00	-38.2		220												
1-Nov-00	-38.5		221												
2-Nov-00	-38.5		222												
3-Nov-00	-38.5		223												
4-Nov-00	-38.5		224												
5-Nov-00	-38.5														
6-Nov-00	-38.7														
7-Nov-00	-38.5														
8-Nov-00	-38.5														
9-Nov-00	-38														
10-Nov-00	-38.2														
11-Nov-00	-38.5														
12-Nov-00	-38.7														
13-Nov-00	-38.7														
14-Nov-00	-38														
15-Nov-00	-37.4														

River Bend NCDOT Gauge L

L TABLE

Serial Number: S31FA92

CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season

JD: Julian Days During Growing Season

All Readings collected at 7:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
8-Sep-99	-28.6		167	29-Oct-99	-28.6		218	19-Dec-99	-28.6			8-Feb-00	2		
9-Sep-99	-28.6		168	30-Oct-99	-28.6		219	20-Dec-99	-28.6			9-Feb-00	1.4		
10-Sep-99	-28.6		169	31-Oct-99	-28.6		220	21-Dec-99	-28.6			10-Feb-00	0.9		
11-Sep-99	-28.6		170	1-Nov-99	-28.6		221	22-Dec-99	-28.6			11-Feb-00	1.4		
12-Sep-99	-28.6		171	2-Nov-99	-28.6		222	23-Dec-99	-28.6			12-Feb-00	2		
13-Sep-99	-28.6		172	3-Nov-99	-28.6		223	24-Dec-99	-28.6			13-Feb-00	2		
14-Sep-99	-28.6		173	4-Nov-99	-28.6		224	25-Dec-99	-28.6			14-Feb-00	2		
15-Sep-99	-28.6		174	5-Nov-99	-28.6			26-Dec-99	-28.6			15-Feb-00	2		
16-Sep-99	-28.6		175	6-Nov-99	-28.6			27-Dec-99	-28.6			16-Feb-00	2		
17-Sep-99	-28.6		176	7-Nov-99	-28.6			28-Dec-99	-28.6			17-Feb-00	1.3		
18-Sep-99	-28.6		177	8-Nov-99	-28.6			29-Dec-99	-28.6			18-Feb-00	2		
19-Sep-99	-28.6		178	9-Nov-99	-28.6			30-Dec-99	-28.6			19-Feb-00	2		
20-Sep-99	-28.6		179	10-Nov-99	-28.6			31-Dec-99	-28.6			20-Feb-00	2		
21-Sep-99	-28.6		180	11-Nov-99	-28.6			1-Jan-00	-28.6			21-Feb-00	0.7		
22-Sep-99	-28.6		181	12-Nov-99	-28.6			2-Jan-00	-28.6			22-Feb-00	-2		
23-Sep-99	-28.6		182	13-Nov-99	-28.6			3-Jan-00	-28.6			23-Feb-00	-2.5		
24-Sep-99	-28.6		183	14-Nov-99	-28.6			4-Jan-00	-28.6			24-Feb-00	-2.9		
25-Sep-99	-28.6		184	15-Nov-99	-28.6			5-Jan-00	-28.6			25-Feb-00	-3.1		
26-Sep-99	-43.2		185	16-Nov-99	-28.6			6-Jan-00	-28.6			26-Feb-00	-4.7		
27-Sep-99	-43.2		186	17-Nov-99	-28.6			7-Jan-00	-28.6			27-Feb-00	-5		
28-Sep-99	-40.7		187	18-Nov-99	-28.6			8-Jan-00	-28.6			28-Feb-00	2		
29-Sep-99	-40.9		188	19-Nov-99	-28.6			9-Jan-00	-28.6			29-Feb-00	-5		
30-Sep-99	-40.9		189	20-Nov-99	-28.6			10-Jan-00	-28.6			1-Mar-00	-5.9		
1-Oct-99	-40.9		190	21-Nov-99	-28.6			11-Jan-00	-28.6			2-Mar-00	-6.7		
2-Oct-99	-40.9		191	22-Nov-99	-28.6			12-Jan-00	-28.6			3-Mar-00	-7.7		
3-Oct-99	-40.9		192	23-Nov-99	-28.6			13-Jan-00	-28.6			4-Mar-00	-8.1		
4-Oct-99	-24.3		193	24-Nov-99	-28.6			14-Jan-00	-28.6			5-Mar-00	-9.4		
5-Oct-99	-13.1		194	25-Nov-99	-28.6			15-Jan-00	-28.6			6-Mar-00	-10.3		
6-Oct-99	-0.7	1	195	26-Nov-99	-28.6			16-Jan-00	-28.6			7-Mar-00	-10.8		
7-Oct-99	-0.4	2	196	27-Nov-99	-28.6			17-Jan-00	-28.6			8-Mar-00	-11		
8-Oct-99	-7.7	3	197	28-Nov-99	-28.6			18-Jan-00	-43.2			9-Mar-00	-11.5		
9-Oct-99	-8.8	4	198	29-Nov-99	-28.6			19-Jan-00	-43.2			10-Mar-00	-13		
10-Oct-99	-7.9	5	199	30-Nov-99	-28.6			20-Jan-00	-40.7			11-Mar-00	-13.3		
11-Oct-99	2	6	200	1-Dec-99	-28.6			21-Jan-00	-40.9			12-Mar-00	-10.6		
12-Oct-99	2	7	201	2-Dec-99	-28.6			22-Jan-00	-40.9			13-Mar-00	-13.3		
13-Oct-99	-28.6		202	3-Dec-99	-28.6			23-Jan-00	-40.9			14-Mar-00	-14		
14-Oct-99	-28.6		203	4-Dec-99	-28.6			24-Jan-00	-40.9			15-Mar-00	-14.4		
15-Oct-99	-28.6		204	5-Dec-99	-28.6			25-Jan-00	-40.9			16-Mar-00	-14.6		
16-Oct-99	-28.6		205	6-Dec-99	-28.6			26-Jan-00	-24.3			17-Mar-00	2		
17-Oct-99	-28.6		206	7-Dec-99	-28.6			27-Jan-00	-13.1			18-Mar-00	1.3		
18-Oct-99	-28.6		207	8-Dec-99	-28.6			28-Jan-00	-0.7			19-Mar-00	-4.5		
19-Oct-99	-28.6		208	9-Dec-99	-28.6			29-Jan-00	-0.4			20-Mar-00	-5.6		
20-Oct-99	-28.6		209	10-Dec-99	-28.6			30-Jan-00	-7.7			21-Mar-00	2		
21-Oct-99	-28.6		210	11-Dec-99	-28.6			31-Jan-00	-8.8			22-Mar-00	2		
22-Oct-99	-28.6		211	12-Dec-99	-28.6			1-Feb-00	-7.9			23-Mar-00	2		
23-Oct-99	-28.6		212	13-Dec-99	-28.6			2-Feb-00	2			24-Mar-00	-1.8		
24-Oct-99	-35.3		213	14-Dec-99	-28.6			3-Feb-00	2			25-Mar-00	-4.9		
25-Oct-99	-35.3		214	15-Dec-99	-28.6			4-Feb-00	-5.2			26-Mar-00	-7	1	1
26-Oct-99	-28.6		215	16-Dec-99	-28.6			5-Feb-00	2			27-Mar-00	-8.6	2	2
27-Oct-99	-28.6		216	17-Dec-99	-28.6			6-Feb-00	2			28-Mar-00	1.8	3	3
28-Oct-99	-28.6		217	18-Dec-99	-28.6			7-Feb-00	2			29-Mar-00	-4.7	4	4

River Bend NCDOT Gauge L

L TABLE

Serial Number: S31FA92

CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season

JD: Julian Days During Growing Season

All Readings collected at 7:00:00

30-Mar-00	-6.8	5	5	21-May-00	-18		57	12-Jul-00	-15.8		109	2-Sep-00	-3.2	6	161
31-Mar-00	-6.3	6	6	22-May-00	-16.7		58	13-Jul-00	-17.1		110	3-Sep-00	-3.2	7	162
1-Apr-00	-9.4	7	7	23-May-00	-16.2		59	14-Jul-00	-17.8		111	4-Sep-00	0	8	163
2-Apr-00	-10.4	8	8	24-May-00	-16.7		60	15-Jul-00	-17.1		112	5-Sep-00	-4.1	9	164
3-Apr-00	2	9	9	25-May-00	-17.1		61	16-Jul-00	-18		113	6-Sep-00	-8.1	10	165
4-Apr-00	2	10	10	26-May-00	-18.2		62	17-Jul-00	-19.1		114	7-Sep-00	-10.3	11	166
5-Apr-00	2	11	11	27-May-00	-19.3		63	18-Jul-00	-20.2		115	8-Sep-00	-12.1		167
6-Apr-00	0.5	12	12	28-May-00	-16.7		64	19-Jul-00	-22.2		116	9-Sep-00	-13.1		168
7-Apr-00	-4.9	13	13	29-May-00	2	1	65	20-Jul-00	-20.9		117	10-Sep-00	-14		169
8-Apr-00	-7	14	14	30-May-00	-4	2	66	21-Jul-00	-24.3		118	11-Sep-00	-13.9		170
9-Apr-00	2	15	15	31-May-00	-8.6	3	67	22-Jul-00	-25.4		119	12-Sep-00	-15.3		171
10-Apr-00	1.3	16	16	1-Jun-00	-10.8	4	68	23-Jul-00	-25.8		120	13-Sep-00	-16.7		172
11-Apr-00	-3.8	17	17	2-Jun-00	-12.4		69	24-Jul-00	-20.5		121	14-Sep-00	-13.9		173
12-Apr-00	-5.8	18	18	3-Jun-00	-11.7		70	25-Jul-00	-19.8		122	15-Sep-00	-16.4		174
13-Apr-00	-10.6	19	19	4-Jun-00	-12.2		71	26-Jul-00	-18.7		123	16-Sep-00	-20.5		175
14-Apr-00	-2.2	20	20	5-Jun-00	-12.6		72	27-Jul-00	-18.5		124	17-Sep-00	-21.8		176
15-Apr-00	-2.3	21	21	6-Jun-00	2	1	73	28-Jul-00	-20		125	18-Sep-00	-22		177
16-Apr-00	-0.5	22	22	7-Jun-00	-6.1	2	74	29-Jul-00	2	1	126	19-Sep-00	-18.5		178
17-Apr-00	-4.7	23	23	8-Jun-00	-11	3	75	30-Jul-00	-7.2	2	127	20-Sep-00	-19.1		179
18-Apr-00	2	24	24	9-Jun-00	-13.1		76	31-Jul-00	-11.2	3	128	21-Sep-00	-5.4	1	180
19-Apr-00	2	25	25	10-Jun-00	-14.6		77	1-Aug-00	-6.1	4	129	22-Sep-00	-14.4		181
20-Apr-00	2	26	26	11-Jun-00	-15.7		78	2-Aug-00	-1.4	5	130	23-Sep-00	-14.2		182
21-Apr-00	-2	27	27	12-Jun-00	-16.6		79	3-Aug-00	-7.9	6	131	24-Sep-00	-15.3		183
22-Apr-00	-4.1	28	28	13-Jun-00	-17.6		80	4-Aug-00	2	7	132	25-Sep-00	-3.4	1	184
23-Apr-00	-7.4	29	29	14-Jun-00	-18.4		81	5-Aug-00	2	8	133	26-Sep-00	2	2	185
24-Apr-00	-10.1	30	30	15-Jun-00	-4.5	1	82	6-Aug-00	-3.1	9	134	27-Sep-00	-2.9	3	186
25-Apr-00	2	31	31	16-Jun-00	2	2	83	7-Aug-00	-6.5	10	135	28-Sep-00	-8.3	4	187
26-Apr-00	2	32	32	17-Jun-00	2	3	84	8-Aug-00	-9.9	11	136	29-Sep-00	-11.5	5	188
27-Apr-00	2	33	33	18-Jun-00	-1.1	4	85	9-Aug-00	-12.2		137	30-Sep-00	-13.3		189
28-Apr-00	2	34	34	19-Jun-00	-5.4	5	86	10-Aug-00	2	1	138	1-Oct-00	-11.7	1	190
29-Apr-00	2	35	35	20-Jun-00	2	6	87	11-Aug-00	1.3	2	139	2-Oct-00	-15.1		191
30-Apr-00	2	36	36	21-Jun-00	2	7	88	12-Aug-00	-7.2	3	140	3-Oct-00	-15.7		192
1-May-00	2	37	37	22-Jun-00	1.3	8	89	13-Aug-00	-10.6	4	141	4-Oct-00	-15.7		193
2-May-00	-2	38	38	23-Jun-00	-5	9	90	14-Aug-00	-8.3	5	142	5-Oct-00	-17.3		194
3-May-00	-5	39	39	24-Jun-00	-7.9	10	91	15-Aug-00	-11.9	6	143	6-Oct-00	-17.8		195
4-May-00	-8.6	40	40	25-Jun-00	-10.3	11	92	16-Aug-00	-12.2		144	7-Oct-00	-19.8		196
5-May-00	-10.6	41	41	26-Jun-00	-11.7	12	93	17-Aug-00	-14.9		145	8-Oct-00	-21.1		197
6-May-00	-12.1		42	27-Jun-00	-12.2		94	18-Aug-00	-14.8		146	9-Oct-00	-22		198
7-May-00	-13.1		43	28-Jun-00	-7.2	1	95	19-Aug-00	-15.5		147	10-Oct-00	-22.3		199
8-May-00	-14.8		44	29-Jun-00	-4.9	2	96	20-Aug-00	-18.2		148	11-Oct-00	-23.1		200
9-May-00	-15.1		45	30-Jun-00	-4.7	3	97	21-Aug-00	-19.3		149	12-Oct-00	-23.4		201
10-May-00	-16.4		46	1-Jul-00	-9	4	98	22-Aug-00	-20.2		150	13-Oct-00	-23.6		202
11-May-00	-18.2		47	2-Jul-00	-11.7	5	99	23-Aug-00	-20.9		151	14-Oct-00	-24.1		203
12-May-00	-17.5		48	3-Jul-00	-12.8		100	24-Aug-00	-20.4		152	15-Oct-00	-24.7		204
13-May-00	-18.7		49	4-Jul-00	-13.9		101	25-Aug-00	-20.7		153	16-Oct-00	-24.9		205
14-May-00	-16.6		50	5-Jul-00	-14		102	26-Aug-00	-19.8		154	17-Oct-00	-24.9		206
15-May-00	-18.5		51	6-Jul-00	-13.5		103	27-Aug-00	-20.5		155	18-Oct-00	-22.5		207
16-May-00	-20.2		52	7-Jul-00	-14.9		104	28-Aug-00	2	1	156	19-Oct-00	-22		208
17-May-00	-19.4		53	8-Jul-00	-16.4		105	29-Aug-00	2	2	157	20-Oct-00	-26.5		209
18-May-00	-18.7		54	9-Jul-00	-17.8		106	30-Aug-00	-5.4	3	158	21-Oct-00	-26.5		210
19-May-00	-19.3		55	10-Jul-00	-17.3		107	31-Aug-00	2	4	159	22-Oct-00	-26.8		211
20-May-00	-21.4		56	11-Jul-00	-19.1		108	1-Sep-00	-0.5	5	160	23-Oct-00	-27.6		212

River Bend NCDOT Gauge L

L TABLE

Serial Number: S31FA92

CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season

JD: Julian Days During Growing Season

All Readings collected at 7:00:00

24-Oct-00	-27.9		213												
25-Oct-00	-25.4		214												
26-Oct-00	-27.4		215												
27-Oct-00	-28.1		216												
28-Oct-00	-28.3		217												
29-Oct-00	-29.2		218												
30-Oct-00	-29.5		219												
31-Oct-00	-29.7		220												
1-Nov-00	-29.9		221												
2-Nov-00	-30.1		222												
3-Nov-00	-30.1		223												
4-Nov-00	-29.5		224												
5-Nov-00	-29.9														
6-Nov-00	-30.8														
7-Nov-00	-29.2														
8-Nov-00	-28.3														
9-Nov-00	-18.9														
10-Nov-00	-20.7														
11-Nov-00	-23.2														
12-Nov-00	-27														
13-Nov-00	-26.7														
14-Nov-00	-23.1														
15-Nov-00	-25.2														

River Bend NCDOT Gauge M
Serial Number: S31F9A2
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 7:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
14-Oct-99				4-Dec-99	-37.1			24-Jan-00	-38.5			15-Mar-00	-38.2		
15-Oct-99				5-Dec-99	-37.4			25-Jan-00	-35.6			16-Mar-00	-38		
16-Oct-99				6-Dec-99	-35.9			26-Jan-00	-39.1			17-Mar-00	-38.2		
17-Oct-99				7-Dec-99	-37.8			27-Jan-00	-39.3			18-Mar-00	-38.2		
18-Oct-99				8-Dec-99	-38			28-Jan-00	-39.6			19-Mar-00	-38.2		
19-Oct-99				9-Dec-99	-38.2			29-Jan-00	-39.6			20-Mar-00	-36.3		
20-Oct-99				10-Dec-99	-37.4			30-Jan-00	-38.7			21-Mar-00	-37.6		
21-Oct-99				11-Dec-99	-37.2			31-Jan-00	-37.1			22-Mar-00	-37.8		
22-Oct-99				12-Dec-99	-37.6			1-Feb-00	-37.6			23-Mar-00	-38.2		
23-Oct-99				13-Dec-99	-37.1			2-Feb-00	-37.8			24-Mar-00	-38.2		
24-Oct-99				14-Dec-99	-32.3			3-Feb-00	-38			25-Mar-00	-38.2		
25-Oct-99				15-Dec-99	-37.2			4-Feb-00	-37.4			26-Mar-00	-38.2		1
26-Oct-99				16-Dec-99	-37.8			5-Feb-00	-37.8			27-Mar-00	-37.2		2
27-Oct-99				17-Dec-99	-38.2			6-Feb-00	-37.6			28-Mar-00	-38.2		3
28-Oct-99				18-Dec-99	-38.3			7-Feb-00	-37.6			29-Mar-00	-38		4
29-Oct-99				19-Dec-99	-38.2			8-Feb-00	-37.6			30-Mar-00	-38.2		5
30-Oct-99				20-Dec-99	-37.6			9-Feb-00	-37.8			31-Mar-00	-38.2		6
31-Oct-99				21-Dec-99	-37.4			10-Feb-00	-37.6			1-Apr-00	-38.2		7
1-Nov-99				22-Dec-99	-36.1			11-Feb-00	-37.6			2-Apr-00	-25.8		8
2-Nov-99				23-Dec-99	-37.6			12-Feb-00	-36.7			3-Apr-00	-36.5		9
3-Nov-99				24-Dec-99	-38			13-Feb-00	-37.4			4-Apr-00	-37.6		10
4-Nov-99				25-Dec-99	-38.3			14-Feb-00	-35.8			5-Apr-00	-37.8		11
5-Nov-99				26-Dec-99	-38.7			15-Feb-00	-37.6			6-Apr-00	-38		12
6-Nov-99				27-Dec-99	-38.7			16-Feb-00	-37.8			7-Apr-00	-38		13
7-Nov-99				28-Dec-99	-38.3			17-Feb-00	-38			8-Apr-00	-37.4		14
8-Nov-99				29-Dec-99	-38.5			18-Feb-00	-36.9			9-Apr-00	-38		15
9-Nov-99				30-Dec-99	-38.5			19-Feb-00	-36.7			10-Apr-00			16
10-Nov-99				31-Dec-99	-38.5			20-Feb-00	-37.8			11-Apr-00			17
11-Nov-99	-36.9			1-Jan-00	-38.3			21-Feb-00	-38			12-Apr-00	-36.1		18
12-Nov-99	-36.9			2-Jan-00	-38.3			22-Feb-00	-38.2			13-Apr-00	-36.7		19
13-Nov-99	-37.1			3-Jan-00	-38.2			23-Feb-00	-37.8			14-Apr-00	-36.7		20
14-Nov-99	-36.9			4-Jan-00	-38.2			24-Feb-00	-38			15-Apr-00	-37.4		21
15-Nov-99	-37.1			5-Jan-00	-37.4			25-Feb-00	-37.8			16-Apr-00	-36.7		22
16-Nov-99	-37.1			6-Jan-00	-38.5			26-Feb-00	-37.6			17-Apr-00	-36.9		23
17-Nov-99	-37.1			7-Jan-00	-38.2			27-Feb-00	-37.8			18-Apr-00	-37.4		24
18-Nov-99	-37.1			8-Jan-00	-38.5			28-Feb-00	-37.4			19-Apr-00	-37.6		25
19-Nov-99	-36.9			9-Jan-00	-38.2			29-Feb-00	-38			20-Apr-00	-37.6		26
20-Nov-99	-36.1			10-Jan-00	-36.3			1-Mar-00	-38			21-Apr-00	-37.6		27
21-Nov-99	-36.7			11-Jan-00	-37.8			2-Mar-00	-37.8			22-Apr-00	-37.6		28
22-Nov-99	-35.8			12-Jan-00	-38.7			3-Mar-00	-38.3			23-Apr-00	-37.8		29
23-Nov-99	-36.3			13-Jan-00	-38.5			4-Mar-00	-38.2			24-Apr-00	-37.6		30
24-Nov-99	-35.9			14-Jan-00	-38.7			5-Mar-00	-38.5			25-Apr-00	-37.4		31
25-Nov-99	-35.8			15-Jan-00	-39.1			6-Mar-00	-38.3			26-Apr-00	-37.2		32
26-Nov-99	-35.4			16-Jan-00	-38.7			7-Mar-00	-38.2			27-Apr-00	-37.2		33
27-Nov-99	-35.4			17-Jan-00	-38.7			8-Mar-00	-38			28-Apr-00	-37.1		34
28-Nov-99	-36.3			18-Jan-00	-38.7			9-Mar-00	-38			29-Apr-00	-37.1		35
29-Nov-99	-36.5			19-Jan-00	-39.3			10-Mar-00	-38.2			30-Apr-00	-36.9		36
30-Nov-99	-36.7			20-Jan-00	-38.2			11-Mar-00	-37.8			1-May-00	-36.3		37
1-Dec-99	-37.2			21-Jan-00	-38.9			12-Mar-00	-37.2			2-May-00	-37.2		38
2-Dec-99	-38.2			22-Jan-00	-39.1			13-Mar-00	-38.3			3-May-00	-37.2		39
3-Dec-99	-37.4			23-Jan-00	-38.7			14-Mar-00	-38.5			4-May-00	-36.9		40

River Bend NCDOT Gauge M
Serial Number: S31F9A2
CD: Consecutive Days Saturation (within 12 inches of the soil surface) During the Growing Season
JD: Julian Days During Growing Season
All Readings collected at 7:00:00

Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD	Date	Level (in)	CD	JD
5-May-00	-37.1		41	26-Jun-00	-34.5		93	17-Aug-00	-32.8		145	8-Oct-00	-33.7		197
6-May-00	-37.4		42	27-Jun-00	-34.3		94	18-Aug-00	-31.9		146	9-Oct-00	-33.6		198
7-May-00	-36.3		43	28-Jun-00	-34.7		95	19-Aug-00	-32.6		147	10-Oct-00	-33.6		199
8-May-00	-35.6		44	29-Jun-00	-33.9		96	20-Aug-00	-32.4		148	11-Oct-00	-33.7		200
9-May-00	-34.7		45	30-Jun-00	-34.3		97	21-Aug-00	-32.6		149	12-Oct-00	-33.7		201
10-May-00	-36.5		46	1-Jul-00	-34.3		98	22-Aug-00	-32.3		150	13-Oct-00	-32.8		202
11-May-00	-36.3		47	2-Jul-00	-33.7		99	23-Aug-00	-32.4		151	14-Oct-00	-33.6		203
12-May-00	-36.1		48	3-Jul-00	-34.1		100	24-Aug-00	-33.2		152	15-Oct-00	-33.7		204
13-May-00	-36.5		49	4-Jul-00	-34.5		101	25-Aug-00	-33		153	16-Oct-00	-33.7		205
14-May-00	-36.3		50	5-Jul-00	-34.5		102	26-Aug-00	-32.8		154	17-Oct-00	-33.9		206
15-May-00	-35.8		51	6-Jul-00	-34.3		103	27-Aug-00	-32.8		155	18-Oct-00	-33.9		207
16-May-00	-35		52	7-Jul-00	-34.3		104	28-Aug-00	-32.8		156	19-Oct-00	-33.9		208
17-May-00	-36.1		53	8-Jul-00	-34.1		105	29-Aug-00	-32.8		157	20-Oct-00	-33.9		209
18-May-00	-36.7		54	9-Jul-00	-34.1		106	30-Aug-00	-33		158	21-Oct-00	-33.9		210
19-May-00	-36.3		55	10-Jul-00	-34.1		107	31-Aug-00	-32.8		159	22-Oct-00	-33.7		211
20-May-00	-35.9		56	11-Jul-00	-33.7		108	1-Sep-00	-32.8		160	23-Oct-00	-33.6		212
21-May-00	-35.2		57	12-Jul-00	-33.9		109	2-Sep-00	-33		161	24-Oct-00	-33.9		213
22-May-00	-35.6		58	13-Jul-00	-33.7		110	3-Sep-00	-33.4		162	25-Oct-00	-34.1		214
23-May-00	-35.9		59	14-Jul-00	-33.9		111	4-Sep-00	-33.4		163	26-Oct-00	-33.7		215
24-May-00	-34.3		60	15-Jul-00	-34.1		112	5-Sep-00	-33.2		164	27-Oct-00	-33.2		216
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25-Jun-00	-34.7		92	16-Aug-00	-32.6		144	7-Oct-00	-33.7		196				

Appendix D

NCEEP Floodplain Requirements Checklist

EEP Floodplain Requirements Checklist

This form was developed by the National Flood Insurance program, NC Floodplain Mapping program and Ecosystem Enhancement Program to be filled for all EEP projects. The form is intended to summarize the floodplain requirements during the design phase of the projects. The form should be submitted to the Local Floodplain Administrator with three copies submitted to NFIP (attn. Edward Curtis), NC Floodplain Mapping Unit (attn. John Gerber) and NC Ecosystem Enhancement Program.

Project Location

Name of project:	River Bend Wetland Restoration
Name if stream or feature:	Intermittent Unnamed Tributary to the Dan River
County:	Caswell
Name of river basin:	Roanoke
Is project urban or rural?	Rural
Name of Jurisdictional municipality/county:	Caswell County
DFIRM panel number for entire site:	3711903100J
Consultant name:	ARCADIS G&N of NC Inc.
Phone number:	919-854-9812
Address:	801 Corporate Center Dr. Suite 300 Raleigh NC 27607

Design Information

Restore 1.86 acres of wetlands by removing earthen spoil piles (approximately 3,400 cubic yards) from within the Dan River floodplain.

Floodplain Information

Is project located in a Special Flood Hazard Area (SFHA)?

✓ **Yes** No

If project is located in a SFHA, check how it was determined:

Redelinated

Detail Study

Limited Detail Study

Approximate Study

Don't Know

List flood zone designation:

Check if applies:

✓ **AE Zone**

✓ **Floodway**

Non-Encroach

None

A Zone

Local Setbacks Required

No Local Setbacks Required

If local setbacks are required, list how many feet:

Does proposed channel boundary encroach outside floodway/non-encroachment/setbacks?

Yes **No**

Land Acquisition (Check)

✓ **State Owner (fee simple)**

Conservation easement (Design Bid Build)

Conservation easement (Full Delivery

Note: if the project property is state-owned, then all requirements should be addressed to the Department of Administration, State Construction Office (attn: Herbert Neily, (919) 807-4101)

Is community/county participating in the NFIP program?

✓ **Yes** No

Note: if community is not participating, then all requirements should be addressed to NFIP (attn: Edward Curtis, (919) 715-8000 x369)

Name of Local Floodplain Administrator: Brian Collie
Phone Number: 336-694-9731 ext. 13

Floodplain Requirements

This section to be filled by designer/applicant following verification with the LFPA

No Action

No Rise

Letter of Map Revision

Conditional Letter of Map Revision

Other Requirements

List other requirements:
Floodplain Development Permit

Comments:
See attached Caswell County Ordinance.

Name: Robert Kepsic Signature: [signature]

Title: Sr. Scientist Date: 5/5/2010

SECTION B. FLOODPLAIN DEVELOPMENT APPLICATION, PERMIT AND CERTIFICATION REQUIREMENTS.

(1) **Application Requirements.** Application for a Floodplain Development Permit shall be made to the Floodplain Administrator prior to any development activities located within Special Flood Hazard Areas. The following items shall be presented to the Floodplain Administrator to apply for a floodplain development permit:

(a) A plot plan drawn to scale which shall include, but shall not be limited to, the following specific details of the proposed floodplain development:

(i) the nature, location, dimensions, and elevations of the area of development/disturbance; existing and proposed structures, utility systems, grading/pavement areas, fill materials, storage areas, drainage facilities, and other development;

(ii) the boundary of the Special Flood Hazard Area as delineated on the FIRM or other flood map as determined in Article 3, Section B, or a statement that the entire lot is within the Special Flood Hazard Area;

(iii) flood zone(s) designation of the proposed development area as determined on the FIRM or other flood map as determined in Article 3, Section B;

(iv) the boundary of the floodway(s) or non-encroachment area(s) as determined in Article 3, Section B;

(v) the Base Flood Elevation (BFE) where provided as set forth in Article 3, Section B; Article 4, Section C; or Article 5, Section D;

(vi) the old and new location of any watercourse that will be altered or relocated as a result of proposed development;

(vii)the certification of the plot plan by a registered land surveyor or professional engineer.

(b) Proposed elevation, and method thereof, of all development within a Special Flood Hazard Area including but not limited to:

(i) Elevation in relation to mean sea level of the proposed reference level (including basement) of all structures;

(ii) Elevation in relation to mean sea level to which any non-residential structure in Zone AE, A or AO will be flood-proofed; and

(iii) Elevation in relation to mean sea level to which any proposed utility systems will be elevated or floodproofed;

(c) If floodproofing, a Floodproofing Certificate (FEMA Form 81-65) with supporting data and an operational plan that includes, but is not limited to, installation, exercise, and maintenance of floodproofing measures.

(d) A Foundation Plan, drawn to scale,, which shall include details of the proposed foundation system to ensure all provisions of this ordinance are met. These details include but are not limited to:

(i) The proposed method of elevation, if applicable (i.e., fill, solid foundation perimeter wall, solid backfilled foundation, open foundation on columns/posts/piers/piles/shear walls);

(ii) Openings to facilitate automatic equalization of hydrostatic flood forces on walls in accordance

with Article 5, Section B(4)(c) when solid foundation perimeter walls are used in Zones A, AO, AE, and A1-30;

(e) Usage details of any enclosed areas below the lowest floor.

(f) Plans and/or details for the protection of public utilities and facilities such as sewer, gas, electrical, and water systems to be located and constructed to minimize flood damage;

(g) Certification that all other Local, State and Federal permits required prior to floodplain development permit issuance have been received.

(h) Documentation for placement of Recreational Vehicles and/or Temporary Structures, when applicable, to ensure that the provisions of Article 5, Section B, subsections (6) and (7) of this ordinance are met.

(i) A description of proposed watercourse alteration or relocation, when applicable, including an engineering report on the effects of the proposed project on the flood-carrying capacity of the watercourse and the effects to properties located both upstream and downstream; and a map (if not shown on plot plan) showing the location of the proposed watercourse alteration or relocation.

(2) **Permit Requirements.** The Floodplain Development Permit shall include, but not be limited to:

(a) A description of the development to be permitted under the floodplain development permit.

(b) The Special Flood Hazard Area determination for the proposed development in accordance with available data specified in Article 3, Section B.

(c) The regulatory flood protection elevation required for the reference level and all attendant utilities.

(d) The regulatory flood protection elevation required for the protection of all public utilities.

(e) All certification submittal requirements with timelines.

(f) A statement that no fill material or other development shall encroach into the floodway or non-encroachment area of any watercourse, as applicable.

(g) The flood openings requirements, if in Zones A, AO, AE or A1-30.

(3) **Certification Requirements.**

(a) Elevation Certificates

(i) An Elevation Certificate (FEMA Form 81-31) is required prior to the actual start of any new construction. It shall be the duty of the permit holder to submit to the Floodplain Administrator a certification of the elevation of the reference level, in relation to mean sea level. The Floodplain Administrator shall review the certificate data submitted. Deficiencies detected by such review shall be corrected by the permit holder prior to the beginning of construction. Failure to submit the certification or failure to make required corrections shall be cause to deny a floodplain development permit.

(ii) An Elevation Certificate (FEMA Form 81-31) is required after the reference level is established. Within seven (7) calendar days of establishment of the reference level elevation, it shall be the duty of the permit holder to submit to the Floodplain Administrator a certification of the elevation of the reference level, in relation to mean sea level. . Any work done within the seven (7) day calendar period and prior to submission of the certification shall be at the permit holder's risk. The Floodplain Administrator shall review the certificate data submitted.

Deficiencies detected by such review shall be corrected by the permit holder immediately and prior to further work being permitted to proceed. Failure to submit the certification or failure to make required corrections shall be cause to issue a stop-work order for the project.

(iii) A final as-built Elevation Certificate (FEMA Form 81-31) is required after construction is completed and prior to Certificate of Compliance/Occupancy issuance. It shall be the duty of the permit holder to submit to the Floodplain Administrator a certification of final as-built construction of the elevation of the reference level and all attendant utilities. The Floodplain Administrator shall review the certificate data submitted. Deficiencies detected by such review shall be corrected by the permit holder immediately and prior to Certificate of Compliance/Occupancy issuance. In some instances, another certification may be required to certify corrected as-built construction. Failure to submit the certification or failure to make required corrections shall be cause to withhold the issuance of a Certificate of Compliance/Occupancy.

(b) Floodproofing Certificate

If non-residential floodproofing is used to meet the regulatory flood protection elevation requirements, a Floodproofing Certificate (FEMA Form 81-65), with supporting data, an operational plan, and an inspection and maintenance plan are required prior to the actual start of any new construction. It shall be the duty of the permit holder to submit to the Floodplain Administrator a certification of the floodproofed design elevation of the reference level and all attendant utilities, in relation to mean sea level. Floodproofing certification shall be prepared by or under the direct supervision of a professional engineer or architect and certified by same. The Floodplain Administrator shall review the certificate data, the operational plan, and the inspection and maintenance plan. Deficiencies detected by such review shall be corrected by the applicant prior to permit approval. Failure to submit the certification or failure to make required corrections shall be cause to deny a floodplain development permit. Failure to construct in accordance with the certified design shall be cause to withhold the issuance of a Certificate of Compliance/Occupancy.

(c) If a manufactured home is placed within Zone A, AO, AE, or A1-30 and the elevation of the chassis is more than 36 inches in height above grade, an engineered foundation certification is required in accordance with the provisions of Article 5, Section B(3)(b).

(d) If a watercourse is to be altered or relocated, a description of the extent of watercourse alteration or relocation; a professional engineer's certified report on the effects of the proposed project on the flood-carrying capacity of the watercourse and the effects to properties located both upstream and downstream; and a map showing the location of the proposed watercourse alteration or relocation shall all be submitted by the permit applicant prior to issuance of a floodplain development permit.

(e) Certification Exemptions. The following structures, if located within Zone A, AO, AE or A1-30, are exempt from the elevation/floodproofing certification requirements specified in items (a) and (b) of this subsection:

(i) Recreational Vehicles meeting requirements of Article 5, Section B(6)(a);

(ii) Temporary Structures meeting requirements of Article 5, Section B(7); and

(iii) Accessory Structures less than 150 square feet meeting requirements of Article 5, Section B(8).

Appendix E

Plan Sheets

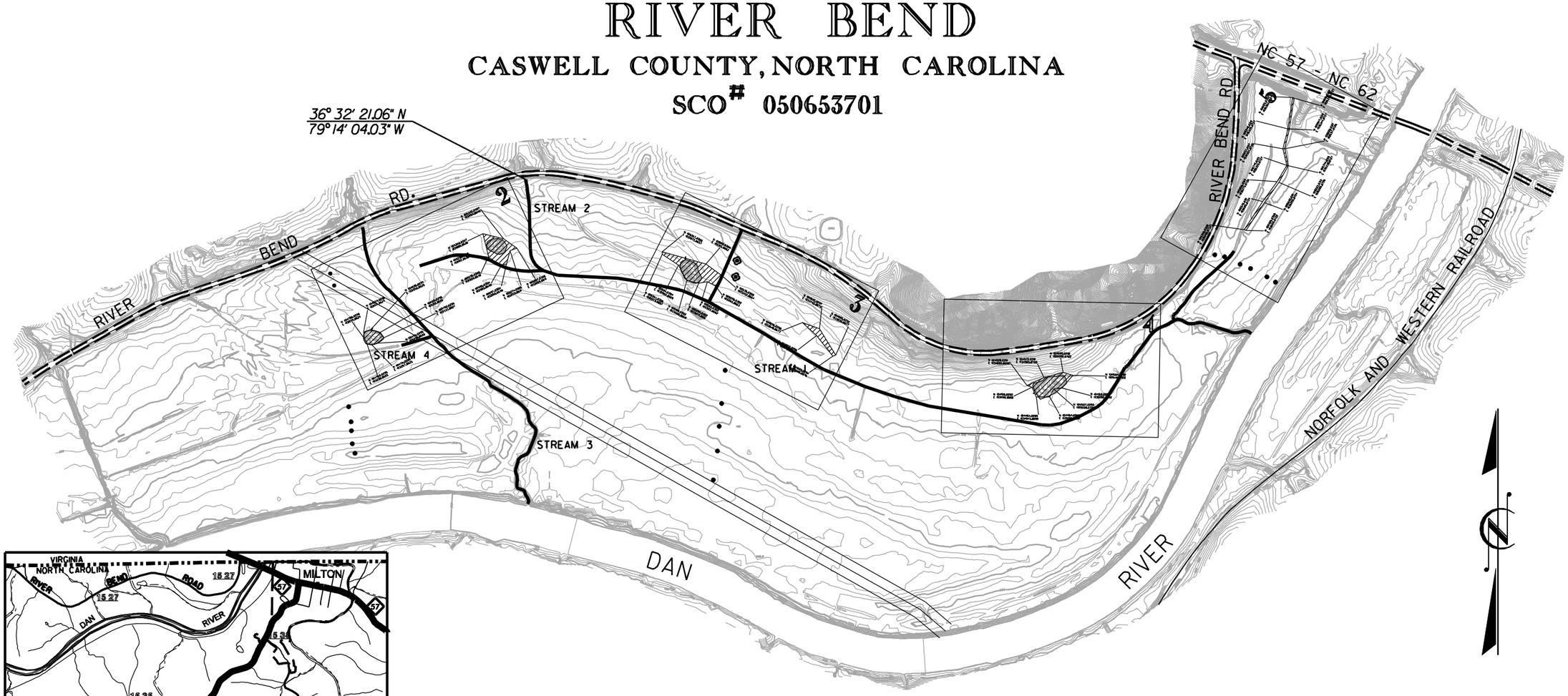
NC DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
NORTH CAROLINA ECOSYSTEM ENHANCEMENT PROGRAM

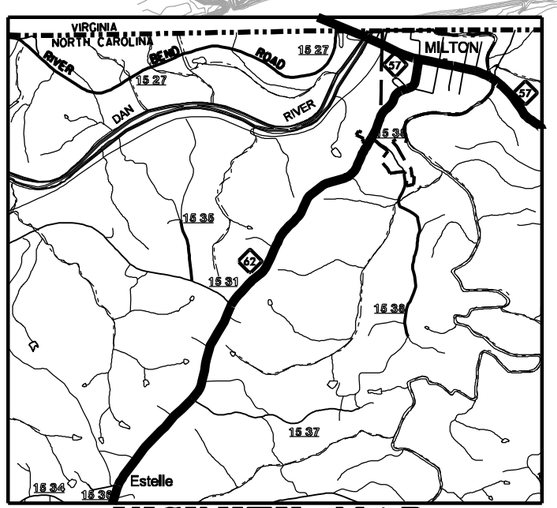
WETLAND MITIGATION

RIVER BEND

CASWELL COUNTY, NORTH CAROLINA

SCO# 050653701





VICINITY MAP

EEP PROJECT MANAGER - KRISTIE CORSON
EEP REVIEW COORDINATOR - ED HAJNOS
ARCADIS PROJECT MANAGER - ROBERT LEPSIC

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

ARCADIS
C & M of North Carolina, Inc.
WWW.ARCADIS-US.COM
801 Corporate Center Drive, Suite 300
Raleigh, NC 27607-5073
Tel: 919/854-1282 Fax: 919/854-5448

DESIGN ENGINEER

INDEX OF SHEETS

SHEETS NO.	CONTENTS
1	TITLE SHEET
2 - 5	PLAN SHEETS
PP1 - PP4	PLANTING PLANS

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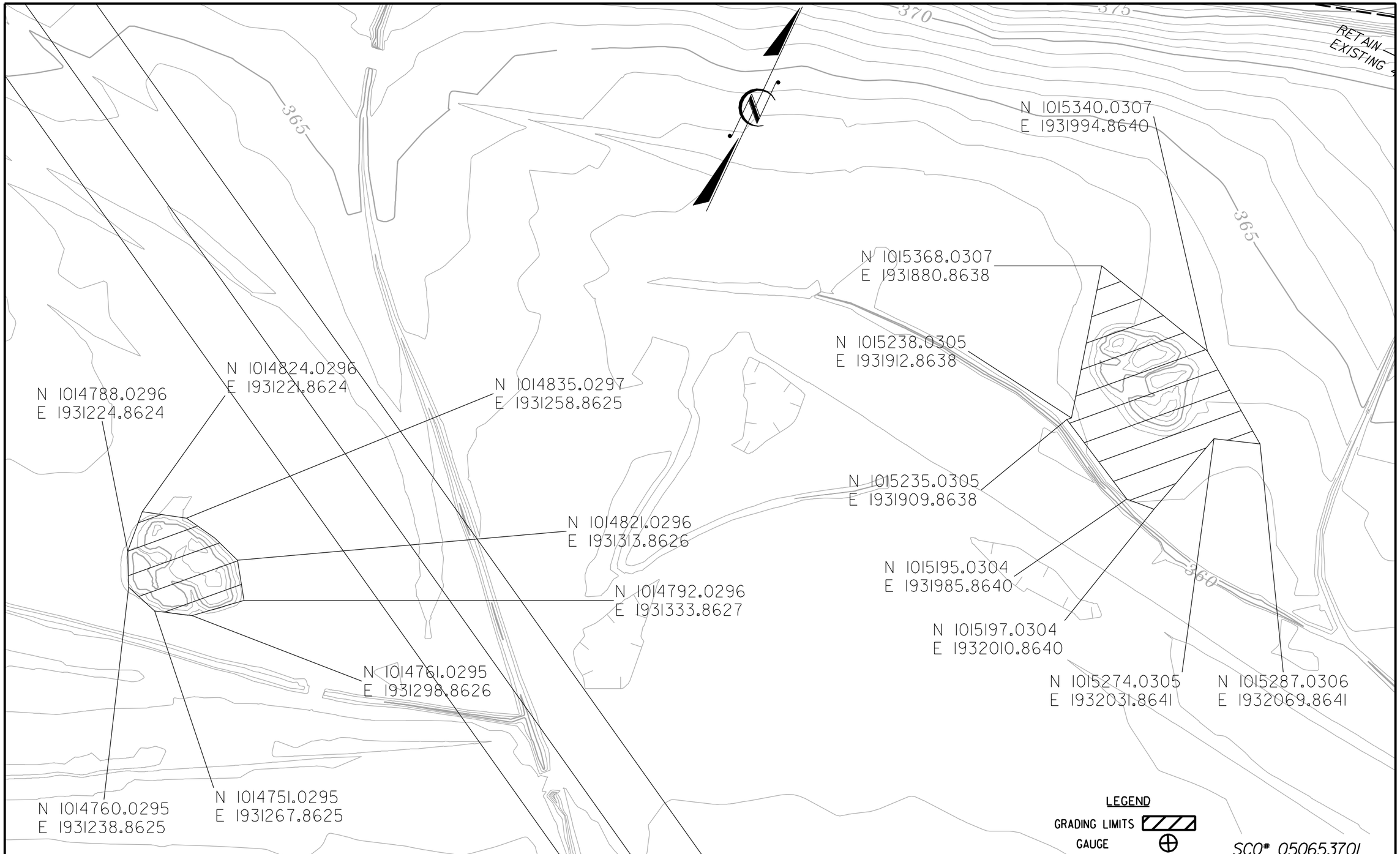
$DATE$



20' 0 40'
SCALE

Ecosystem Enhancement PROGRAM

ARCADIS
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WWW.ARCADIS-US.COM
801 Corporate Center Drive, Suite 300
Raleigh, NC 27607-5073
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DESIGN ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2	DGL	2/18/10	DRAFT MITIGATION PLAN
1	REB	2/28/06	DRAFT RESTORATION PLAN

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
ECOSYSTEM ENHANCEMENT PROGRAM

RIVER BEND
CASWELL COUNTY, NORTH CAROLINA

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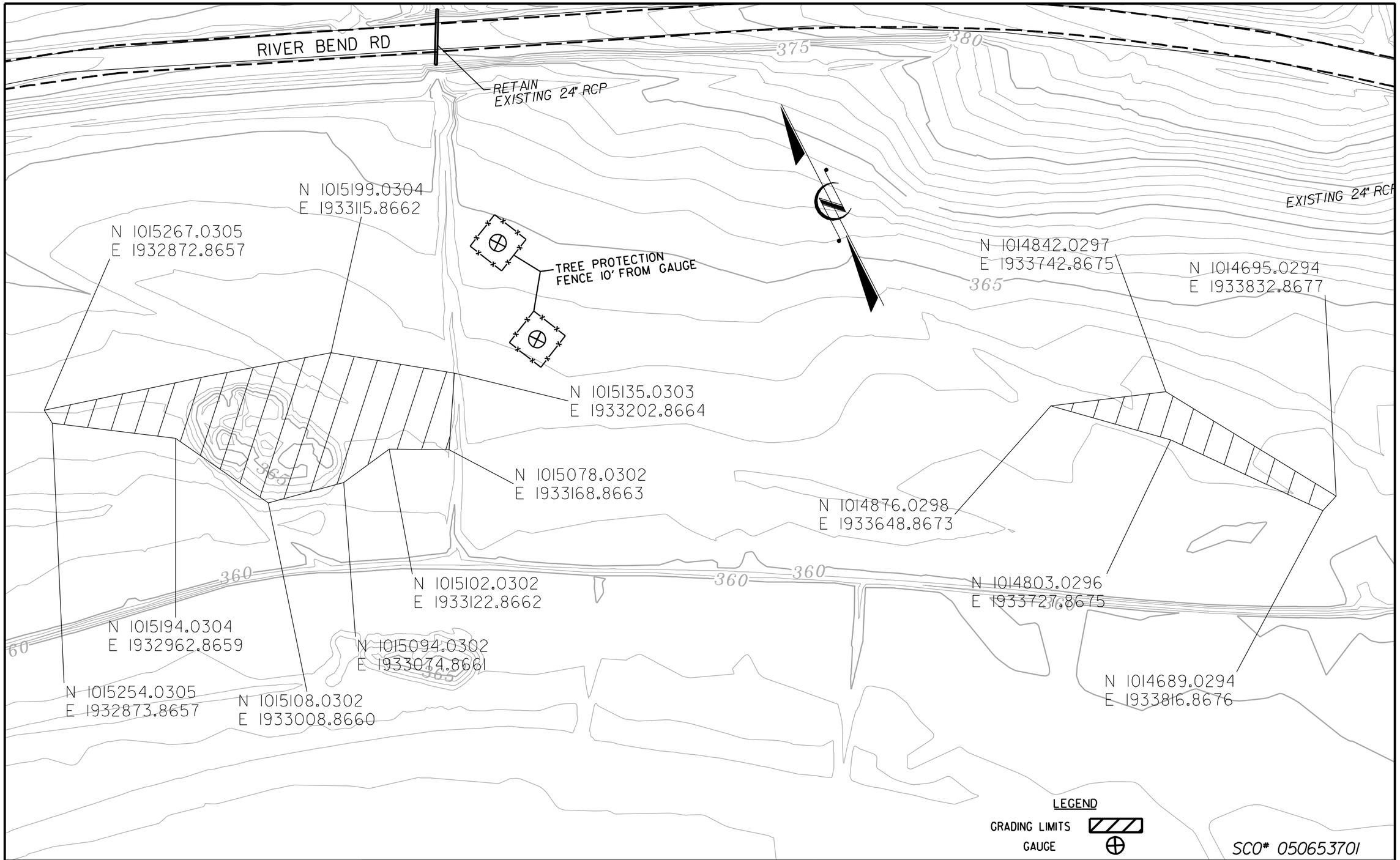

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NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
ECOSYSTEM ENHANCEMENT PROGRAM

RIVER BEND
CASWELL COUNTY, NORTH CAROLINA

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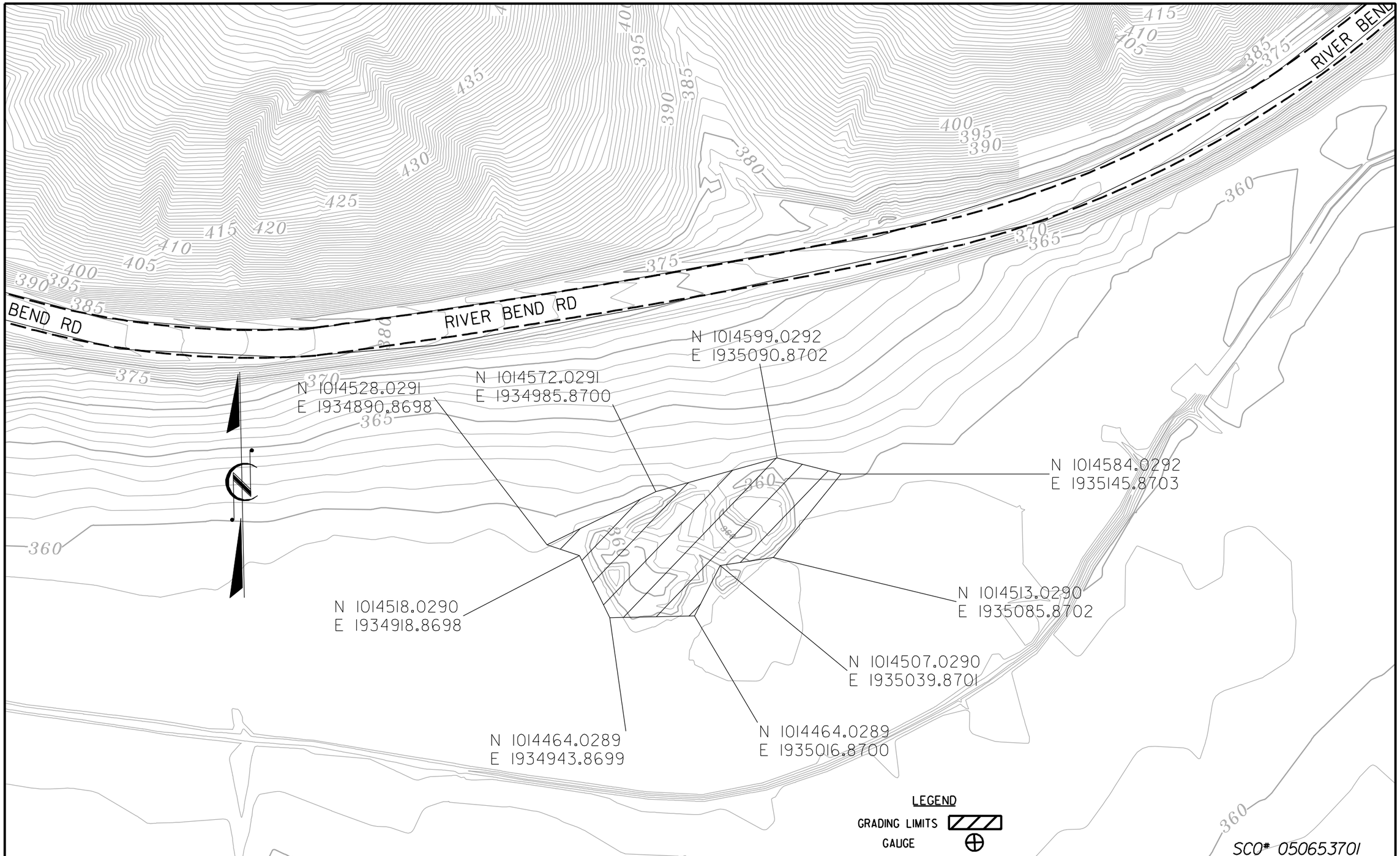

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SCALE

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NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
ECOSYSTEM ENHANCEMENT PROGRAM

RIVER BEND
CASWELL COUNTY, NORTH CAROLINA

PLAN SHEET NO. 4

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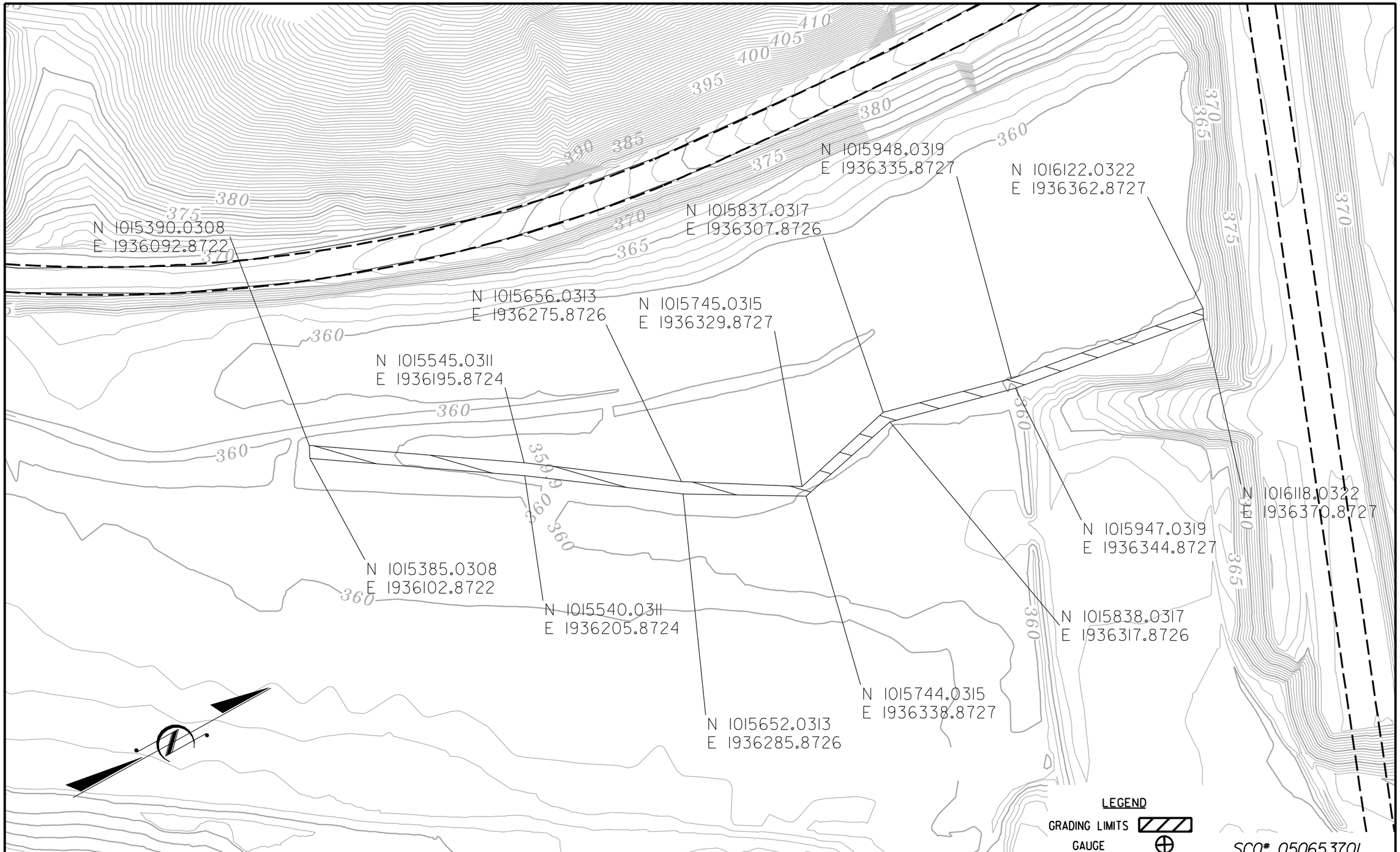
Filename:&FILE&



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NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
ECOSYSTEM ENHANCEMENT PROGRAM

RIVER BEND
CASWELL COUNTY, NORTH CAROLINA

PLAN SHEET NO. 5

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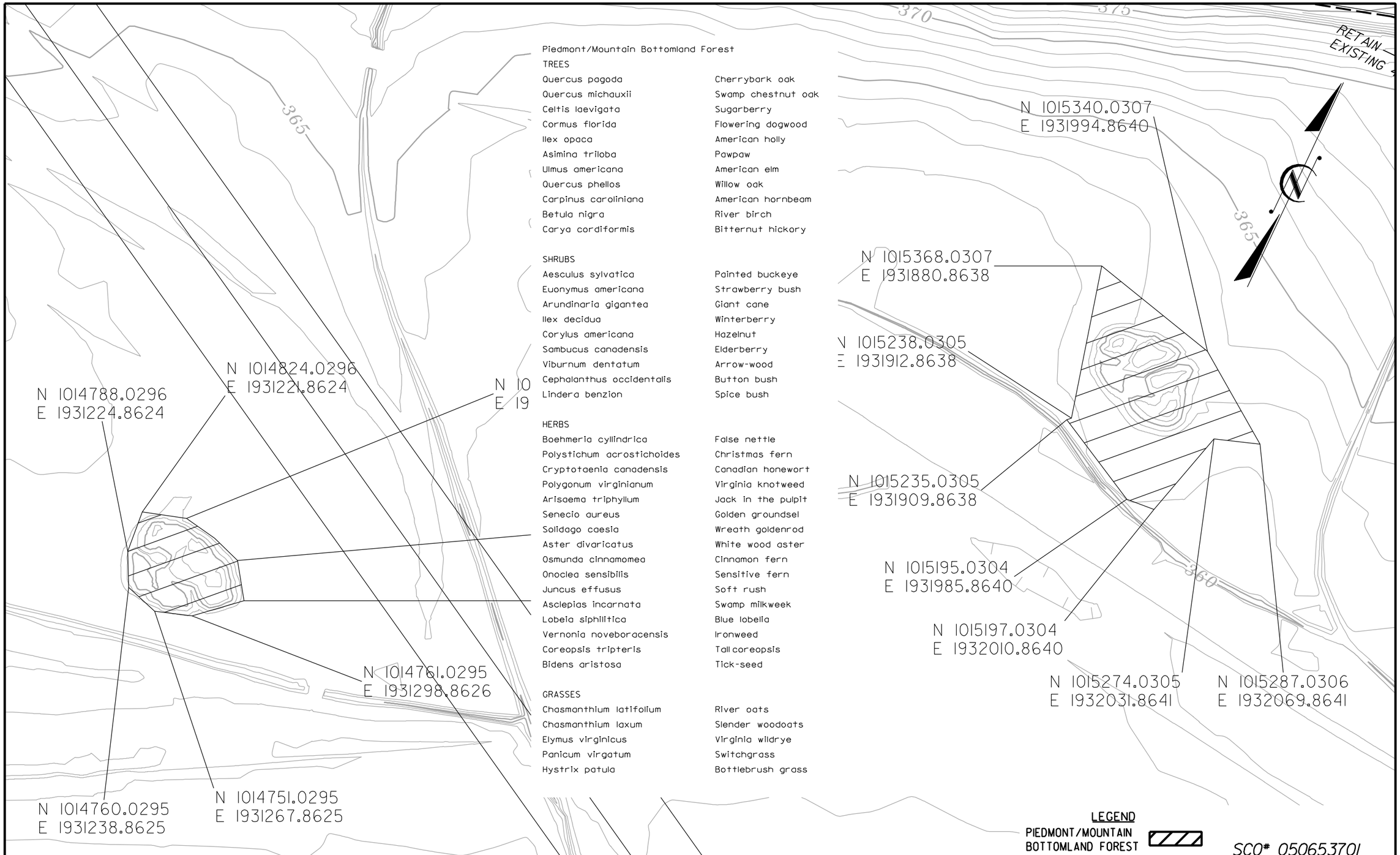

Piedmont/Mountain Bottomland Forest

TREES	
Quercus pagoda	Cherrybark oak
Quercus michauxii	Swamp chestnut oak
Celtis laevigata	Sugarberry
Cornus florida	Flowering dogwood
Ilex opaca	American holly
Asimina triloba	Pawpaw
Ulmus americana	American elm
Quercus phellos	Willow oak
Carpinus caroliniana	American hornbeam
Betula nigra	River birch
Carya cordiformis	Bitternut hickory
SHRUBS	
Aesculus sylvatica	Painted buckeye
Euonymus americana	Strawberry bush
Arundinaria gigantea	Giant cane
Ilex decidua	Winterberry
Corylus americana	Hazelnut
Sambucus canadensis	Elderberry
Viburnum dentatum	Arrow-wood
Cephalanthus occidentalis	Button bush
Lindera benzion	Spice bush
HERBS	
Boehmeria cyllindrica	False nettle
Polystichum acrostichoides	Christmas fern
Cryptotaenia canadensis	Canadian honewort
Polygonum virginianum	Virginia knotweed
Arisaema triphyllum	Jack in the pulpit
Senecio aureus	Golden groundsel
Solidago caesia	Wreath goldenrod
Aster divaricatus	White wood aster
Osmunda cinnamomea	Cinnamon fern
Onoclea sensibilis	Sensitive fern
Juncus effusus	Soft rush
Asclepias incarnata	Swamp milkweek
Lobelia siphilitica	Blue lobelia
Vernonia noveboracensis	Ironweed
Coreopsis tripteris	Tall coreopsis
Bidens aristosa	Tick-seed
GRASSES	
Chasmanthium latifolium	River oats
Chasmanthium laxum	Slender woodoats
Elymus virginicus	Virginia wildrye
Panicum virgatum	Switchgrass
Hystrix patula	Bottlebrush grass

SCO# 05065370I

20' 0 40'
SCALE

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NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
ECOSYSTEM ENHANCEMENT PROGRAM

RIVER BEND
CASWELL COUNTY, NORTH CAROLINA

PLANTING PLAN

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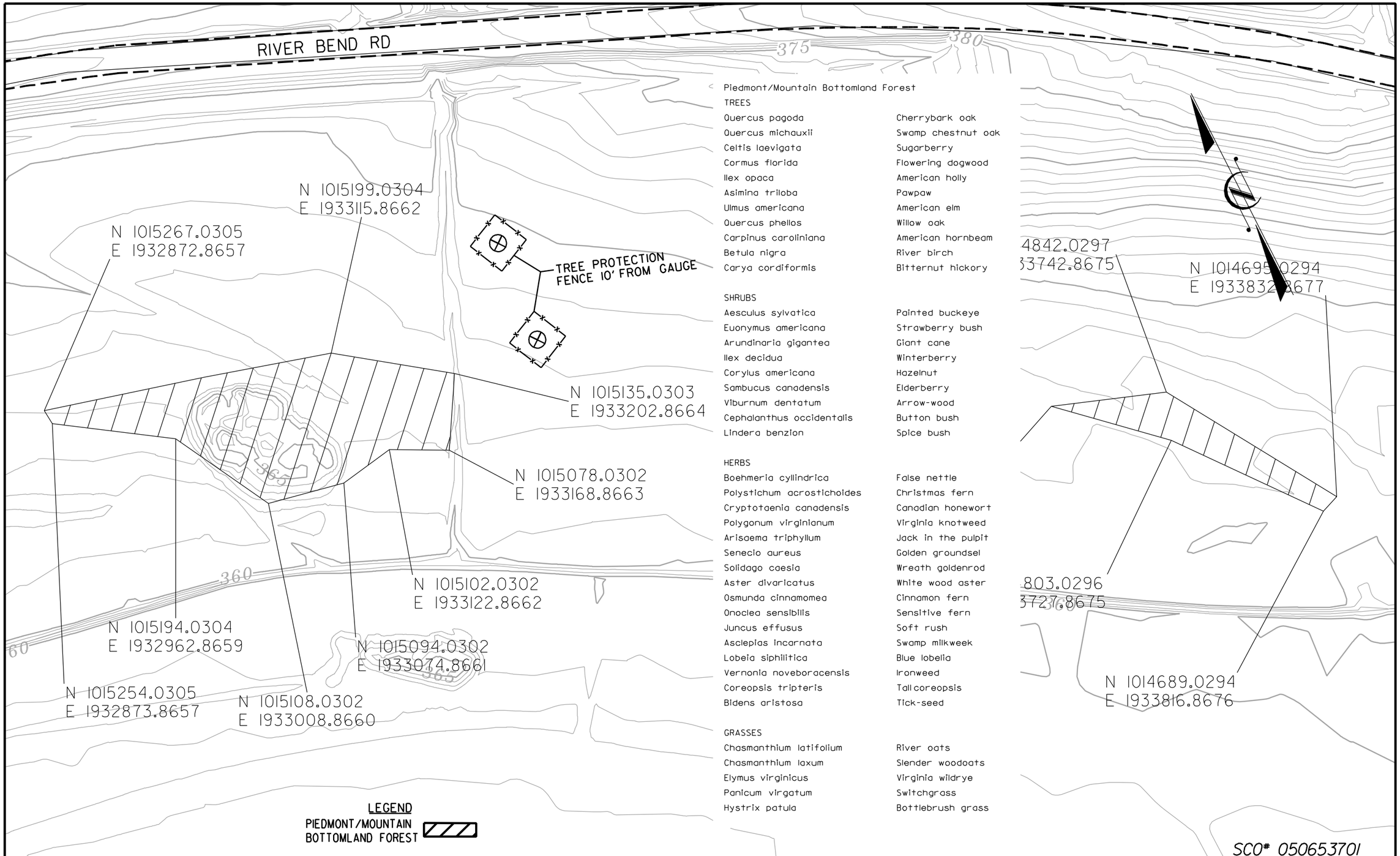

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Bidens aristosa	Tick-seed
GRASSES	
Chasmanthium latifolium	River oats
Chasmanthium laxum	Slender woodoats
Elymus virginicus	Virginia wildrye
Panicum virgatum	Switchgrass
Hystrix patula	Bottlebrush grass

20' 0 40'
SCALE

Ecosystem Enhancement PROGRAM

ARCADIS
G & M of North Carolina, Inc.
WWW.ARCADIS-US.COM
801 Corporate Center Drive, Suite 300
Raleigh, NC 27607-5073
Tel: 919/854-1282 Fax: 919/854-5448

DESIGN ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2	DGL	2/18/10	DRAFT MITIGATION PLAN
1	REB	2/28/06	DRAFT RESTORATION PLAN

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
ECOSYSTEM ENHANCEMENT PROGRAM

RIVER BEND
CASWELL COUNTY, NORTH CAROLINA

PLANTING PLAN

SHEET NO. PP2

Date:&DATE&
Filename:&FILE&

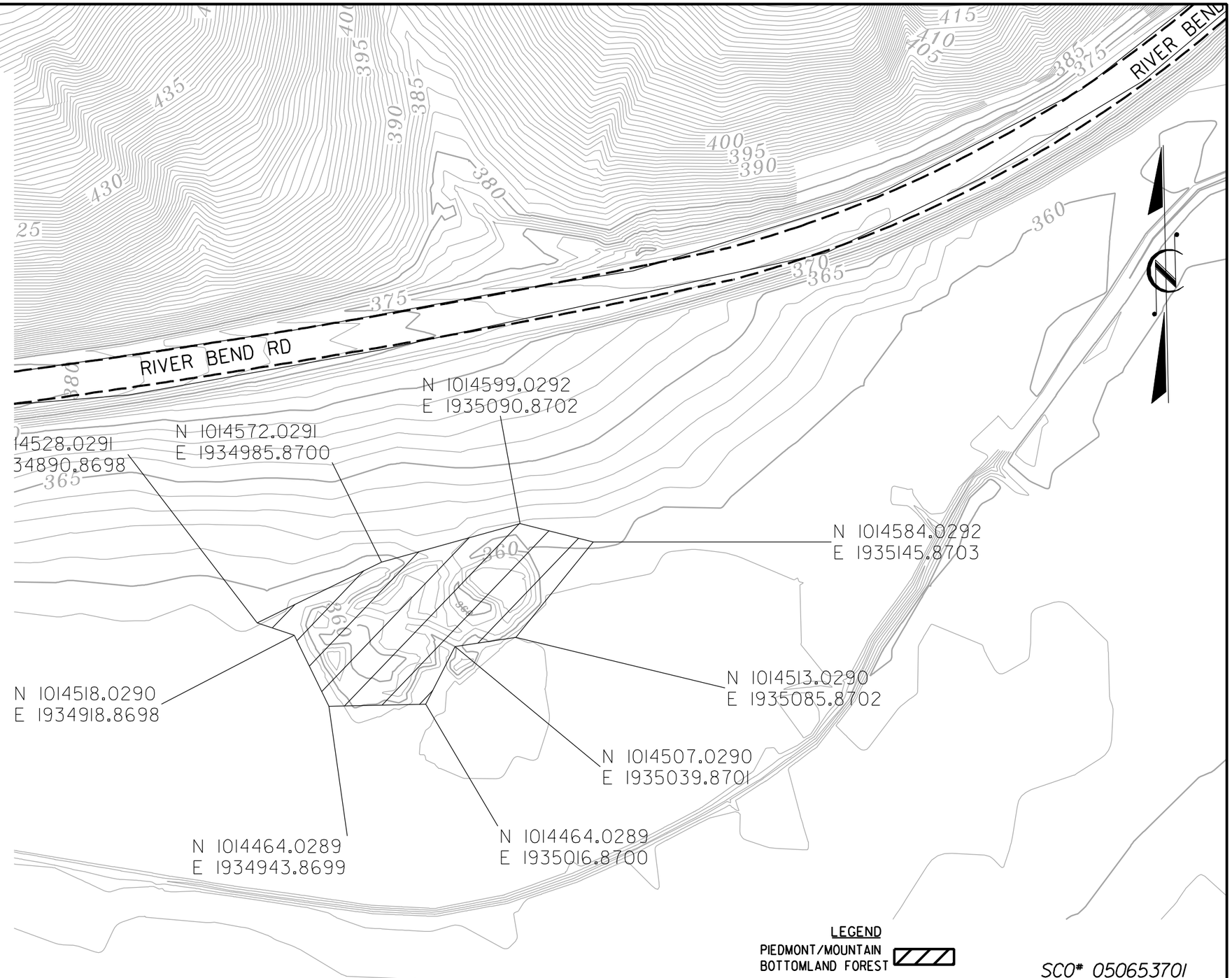
Piedmont/Mountain Bottomland Forest

TREES	
Quercus pagoda	Cherrybark oak
Quercus michauxii	Swamp chestnut oak
Celtis laevigata	Sugarberry
Cormus florida	Flowering dogwood
Ilex opaca	American holly
Asimina triloba	Pawpaw
Ulmus americana	American elm
Quercus phellos	Willow oak
Carpinus caroliniana	American hornbeam
Betula nigra	River birch
Carya cordiformis	Bitternut hickory

SHRUBS	
Aesculus sylvatica	Painted buckeye
Euonymus americana	Strawberry bush
Arundinaria gigantea	Giant cane
Ilex decidua	Winterberry
Corylus americana	Hazelnut
Sambucus canadensis	Elderberry
Viburnum dentatum	Arrow-wood
Cephalanthus occidentalis	Button bush
Lindera benzion	Spice bush

HERBS	
Boehmeria cylindrica	False nettle
Polystichum acrostichoides	Christmas fern
Cryptotaenia canadensis	Canadian honewort
Polygonum virginianum	Virginia knotweed
Arisaema triphyllum	Jack in the pulpit
Senecio aureus	Golden groundsel
Solidago caesia	Wreath goldenrod
Aster divaricatus	White wood aster
Osmunda cinnamomea	Cinnamon fern
Onoclea sensibilis	Sensitive fern
Juncus effusus	Soft rush
Asclepias incarnata	Swamp milkweek
Lobelia siphilitica	Blue lobelia
Vernonia noveboracensis	Ironweed
Coreopsis tripteris	Tall coreopsis
Bidens aristosa	Tick-seed

GRASSES	
Chasmanthium latifolium	River oats
Chasmanthium laxum	Slender woodoats
Elymus virginicus	Virginia wildrye
Panicum virgatum	Switchgrass
Hystrix patula	Bottlebrush grass



SCO# 050653701

20' 0 40'
SCALE

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NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
ECOSYSTEM ENHANCEMENT PROGRAM

RIVER BEND
CASWELL COUNTY, NORTH CAROLINA

PLANTING PLAN SHEET NO. PP3

Date:&DATE&
Filename:&FILE&

Piedmont/Mountain Bottomland Forest

TREES

Quercus pagoda	Cherrybark oak
Quercus michauxii	Swamp chestnut oak
Celtis laevigata	Sugarberry
Cornus florida	Flowering dogwood
Ilex opaca	American holly
Asimina triloba	Pawpaw
Ulmus americana	American elm
Quercus phellos	Willow oak
Carpinus caroliniana	American hornbeam
Betula nigra	River birch
Carya cordiformis	Bitternut hickory

SHRUBS

Aesculus sylvatica	Painted buckeye
Euonymus americana	Strawberry bush
Arundinaria gigantea	Giant cane
Ilex decidua	Winterberry
Corylus americana	Hazelnut
Sambucus canadensis	Elderberry
Viburnum dentatum	Arrow-wood
Cephalanthus occidentalis	Button bush
Lindera benzion	Spice bush

HERBS

Boehmeria cylindrica	False nettle
Polystichum acrostichoides	Christmas fern
Cryptotaenia canadensis	Canadian honewort
Polygonum virginianum	Virginia knotweed
Arisaema triphyllum	Jack in the pulpit
Senecio aureus	Golden groundsel
Solidago caesia	Wreath goldenrod
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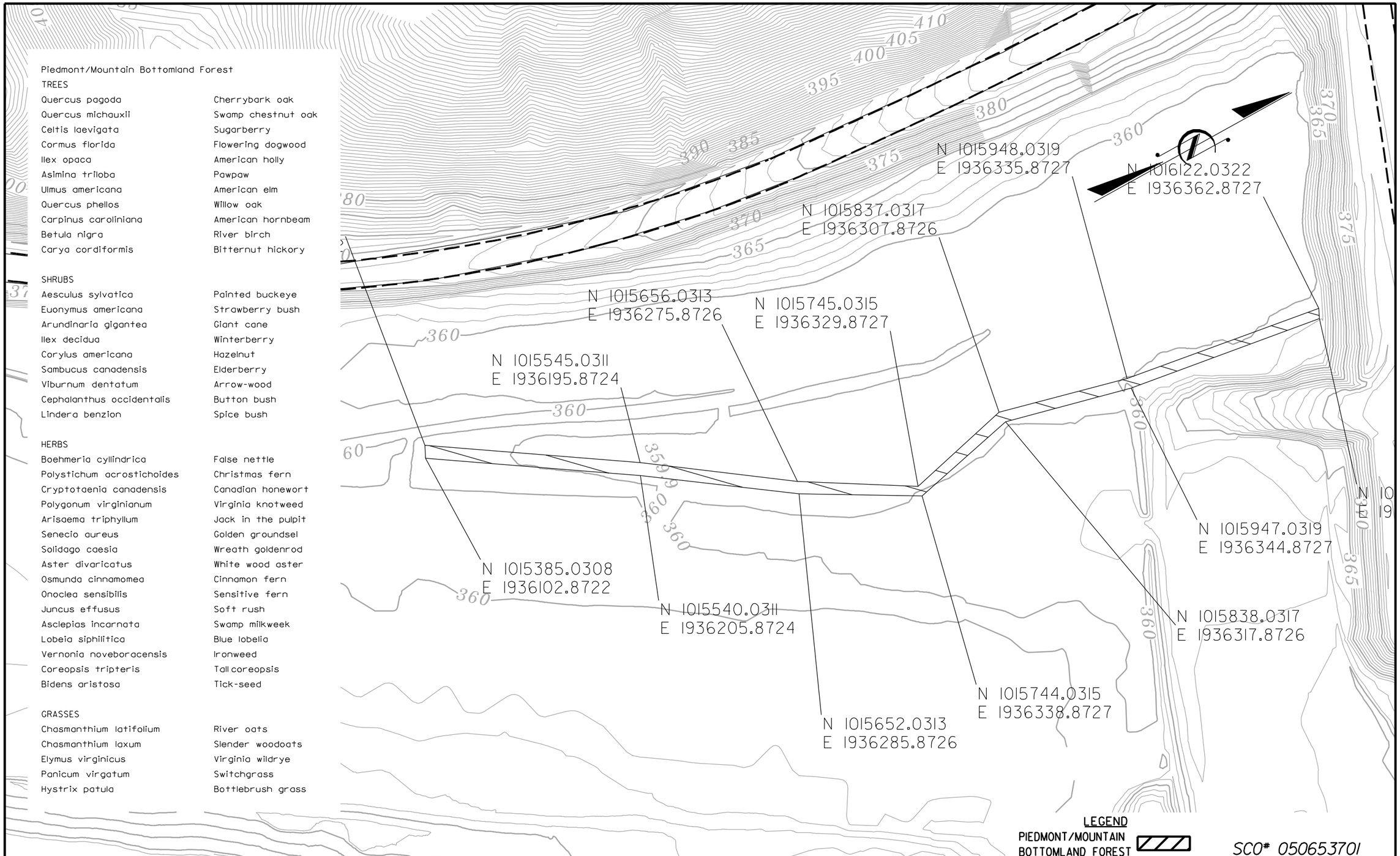
Osmunda cinnamomea	Cinnamon fern
Onoclea sensibilis	Sensitive fern
Juncus effusus	Soft rush
Asclepias incarnata	Swamp milkweek
Lobelia siphilitica	Blue lobelia
Vernonia noveboracensis	Ironweed
Coreopsis tripteris	Tall coreopsis
Bidens aristosa	Tick-seed

GRASSES

Chasmanthium latifolium	River oats
Chasmanthium laxum	Slender woodoats
Elymus virginicus	Virginia wildrye
Panicum virgatum	Switchgrass
Hystrix patula	Bottlebrush grass



SCO# 05065370I

20' 0 40'
SCALE

Ecosystem Enhancement PROGRAM

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NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
ECOSYSTEM ENHANCEMENT PROGRAM

RIVER BEND
CASWELL COUNTY, NORTH CAROLINA

PLANTING PLAN

SHEET NO. PP4

Date:DATE
Filename:#FLE