

**Conoconnara Mitigation Project  
Halifax County, North Carolina**

**DENR-EEP Contract No. 16-D05024**

**Year 2 Monitoring Report**



**Prepared for**

Environmental Banc and Exchange, LLC  
909 Capability Drive, Suite 3100  
Raleigh, NC 27606

**Prepared by**

WK Dickson and Co., Inc.  
720 Corporate Center Drive  
Raleigh, NC 27607  
(919) 782-0495

**November 2008**

## Table of Contents

1.0	SUMMARY .....	3
2.0	INTRODUCTION .....	3
2.1	Project Description .....	3
2.2	Project Purpose.....	4
2.3	Project History & Schedule.....	7
3.0	HYDROLOGY .....	7
3.1	Hydrologic Success Criteria.....	7
3.2	Description of Hydrology Monitoring Efforts .....	7
3.3	Results of Hydrology Monitoring .....	8
3.3.1	Site Data .....	8
3.3.2	Reference Data .....	13
3.3.3	Climate Data.....	14
3.4	Hydrologic Conclusions.....	16
4.0	VEGETATION .....	16
4.1	Vegetation Success Criteria .....	16
4.2	Description of Species and Vegetation Monitoring .....	16
4.3	Results of Vegetation Monitoring .....	17
4.4	Vegetation Observations & Conclusions .....	17
5.0	STREAM MONITORING.....	20
5.1	Stream Success Criteria.....	20
5.2	Stream Morphology Monitoring Plan .....	20
5.2.1	Cross Sections .....	20
5.2.2	Longitudinal Profile .....	20
5.2.3	Hydrology .....	21
5.2.4	Photo Reference Stations .....	21
5.3	Stream Morphology Monitoring Results.....	21
5.3.1	Cross Sections .....	21
5.3.2	Longitudinal Profile .....	21
5.3.3	Hydrology .....	22
5.4	Stream Conclusions.....	24
6.0	CONCLUSIONS AND RECOMMENDATIONS .....	24

**List of Figures**

Figure 1. Vicinity Map.....	5
Figure 2. USGS Map .....	6
Figure 3. Monitoring Summary Map.....	9
Figure 4. Groundwater Hydrographs .....	12
Figure 5. Reference Hydrographs.....	14
Figure 6. 2008 Precipitation Data.....	15
Figure 7. Vegetation Problem Areas.....	19
Figure 8. Stream Problem Areas.....	23

**List of Tables**

Table 1. Project Mitigation Structure and Objectives.....	4
Table 2. Project Activity and Reporting History .....	7
Table 3. Project Contacts .....	7
Table 4. Hydrologic Monitoring Results .....	11
Table 5. Comparison of Normal Rainfall to Observed Rainfall .....	15
Table 6. Results of Vegetation Monitoring.....	18
Table 7. Stream Areas Requiring Observation .....	22
Table 8. Crest Gauge Data.....	22
Table 9. Summary of Morphologic Monitoring Parameters.....	24

**APPENDICES**

Appendix A	As-Built Survey
Appendix B	2008 Profile and Cross Section Data
Appendix C	2008 Gauge Data
Appendix D	2008 Site Photos

## **1.0 SUMMARY**

This Annual Report details the monitoring activities during the 2008 growing season on the Conoconnara Mitigation Site. Construction of the site, including planting of trees, was completed in March 2006. The 2008 data represents results from the second year of monitoring for both wetlands and streams.

The design for the Conoconnara property involved: stream restoration, non-riverine wetland restoration, non-riverine wetland enhancement, and non-riverine wetland preservation. After construction, it was determined that the project generated 5,050 feet of stream restoration, 69 acres of wetland restoration, eight acres of wetland enhancement, and 71 acres of wetland preservation. The As-Built survey is included as Appendix A.

This Annual Report presents the data from 12 automated hydrology monitoring stations, 24 vegetation monitoring plots, two crest gauges, one rain gauge, 10 cross sections, approximately 3000 linear feet of profile survey, and photographic reference locations; as specified in the approved Restoration Plan for the site.

Weather station data from the Enfield Weather Station were used in conjunction with a manual rain gauge located on the site to document precipitation amounts. The manual gauge is used to validate observations made at the automated station. Below normal rainfall in late spring and summer resulted in reduced hydroperiods during the later part of the growing season.

In 2008, seven of the twelve hydrology monitoring gauges met the hydrology success criteria as defined in the Restoration Plan for the site. Of the remaining five gauges, two exhibited hydroperiods greater than 5 percent of the growing season. It is important to note that the hydrology of the targeted restored wetland system (non-riverine wetland hardwoods) is highly variable across a given site, supporting the ecological and functional diversity that makes these systems so valuable.

This Annual Monitoring Report provides data on vegetation survival at 24 vegetation monitoring plots, and documents surviving vegetation at between 210 and 820 stems per acre. The interim vegetation success criteria will be the survival of 260 planted trees per acre at the end of year three and the final vegetative success criteria will be the survival of 260 planted trees per acre at the end of year five of the monitoring period.

Bankfull events were recorded at the downstream both Crest Gauge 1 and Crest Gauge 2. The restored stream channel has remained stable and is providing the intended habitat and hydrologic functions. All monitored cross sections and longitudinal profile for 2008 show very little adjustment in stream dimension.

## **2.0 INTRODUCTION**

### **2.1 PROJECT DESCRIPTION**

The Conoconnara Stream and Wetland Mitigation Project is in Halifax County, North Carolina. The site is just outside of Tillery, approximately seventeen miles southeast of Roanoke Rapids (**Figure 1**). The property is 567 acres located immediately south of NC 561 and is accessed via a farm road 1.1 miles east of Tillery. Construction at the site was completed in March 2007. Groundwater, surface water, and rain gauges were functional beginning in March 2007. The 2008 monitoring season represents Year 2 of monitoring for the site.

Looking Glass Run has a drainage area of 562 acres (0.88 mi<sup>2</sup>) at the downstream end of the restoration project. The wetland mitigation is divided between four distinct sites. These include restoration areas in prior-converted cropland, one enhancement area in the Looking Glass Run headwaters, and one preservation area adjacent to the stream restoration corridor. The 63.64 acre wetland restoration area has a drainage area of 130 acres (0.20 mi<sup>2</sup>). The 5.36 acre wetland restoration area has a drainage area of 13.73 acres (0.02 mi<sup>2</sup>). The dominant historic land use was agricultural production of cotton and soybeans, pine plantation, and woodland. Local drainage patterns had been altered in the past to drain wetlands and promote agricultural production. The USGS Scotland Neck, NC topographic quadrangle (**Figure 2**) shows that drainage from the site flows in two directions. The northern portion of the site flows primarily to Conoconnara Swamp, while the southern portion of the site drains to Looking Glass Run. There were numerous agricultural ditches and swales on the project property that were used to promote drainage. The ditches and swales were constructed to route water off the site, draining areas that were once wetland. On-site topography, soils, and existing wetland areas demonstrate that the site historically supported both riverine and non-riverine wetland areas. The restoration and preservation areas are protected by a conservation easement.

## 2.2 PROJECT PURPOSE

The objective of this project is to provide 5,000 stream mitigation units (SMU) and 87 wetland mitigation units (WMU) to the EEP through the full delivery process in the Roanoke River 03010107 hydrologic unit. Stream mitigation was provided through restoration on Looking Glass Run. Non-riverine wetland mitigation was provided through preservation, enhancement, and restoration. The site was identified and developed by EBX to support the NC EEP full delivery mitigation process. Monitoring of the Conoconnara Site is required to demonstrate successful mitigation based on the criteria found in the Restoration Plan and through a comparison to reference site conditions. The success criteria components will adhere to EEP and USACE guidelines. Hydrology, vegetation, and stream monitoring are conducted on an annual basis. This Annual Monitoring Report details the results of the monitoring efforts for 2008 (Year 2) at the Conoconnara Mitigation Site.

**Table 1. Project Mitigation Structure and Objectives**

MITIGATION PRACTICE	SIZE	RATIO	MITIGATION UNITS
<b>Wetlands</b>			
Non-riverine wetland preservation	71 acres	1:5	14
Non-riverine wetland enhancement	8 acres	1:2	4
Non-riverine wetland restoration	69 acres	1:1	69
<b>Total:</b>			<b>87 WMU's</b>
<b>Stream</b>			
Stream Restoration (Looking Glass Run)	5,050 lf	1:1	5,050
<b>Total:</b>			<b>5,050 SMU's</b>

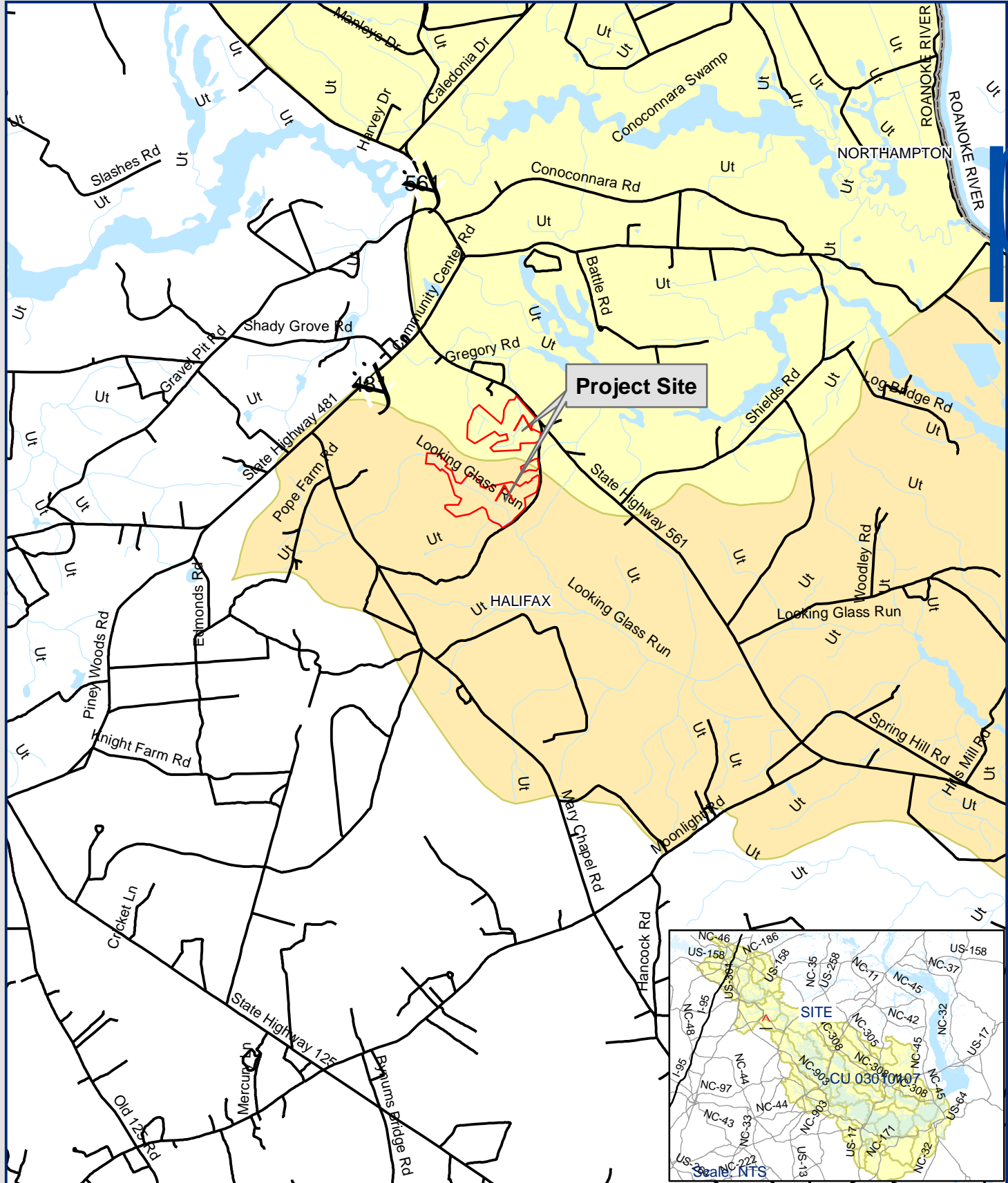






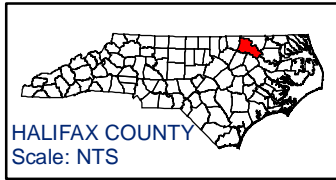
Figure 1.  
Site Location Map  
Conoconarra

SOURCES: NCDOT, NRCS, USGS

0 0.25 0.5 1 1.5 2 Miles

**LEGEND**

-  Road
-  Existing Waterbody
-  HUC 03010107090020
-  HUC 03010107090030



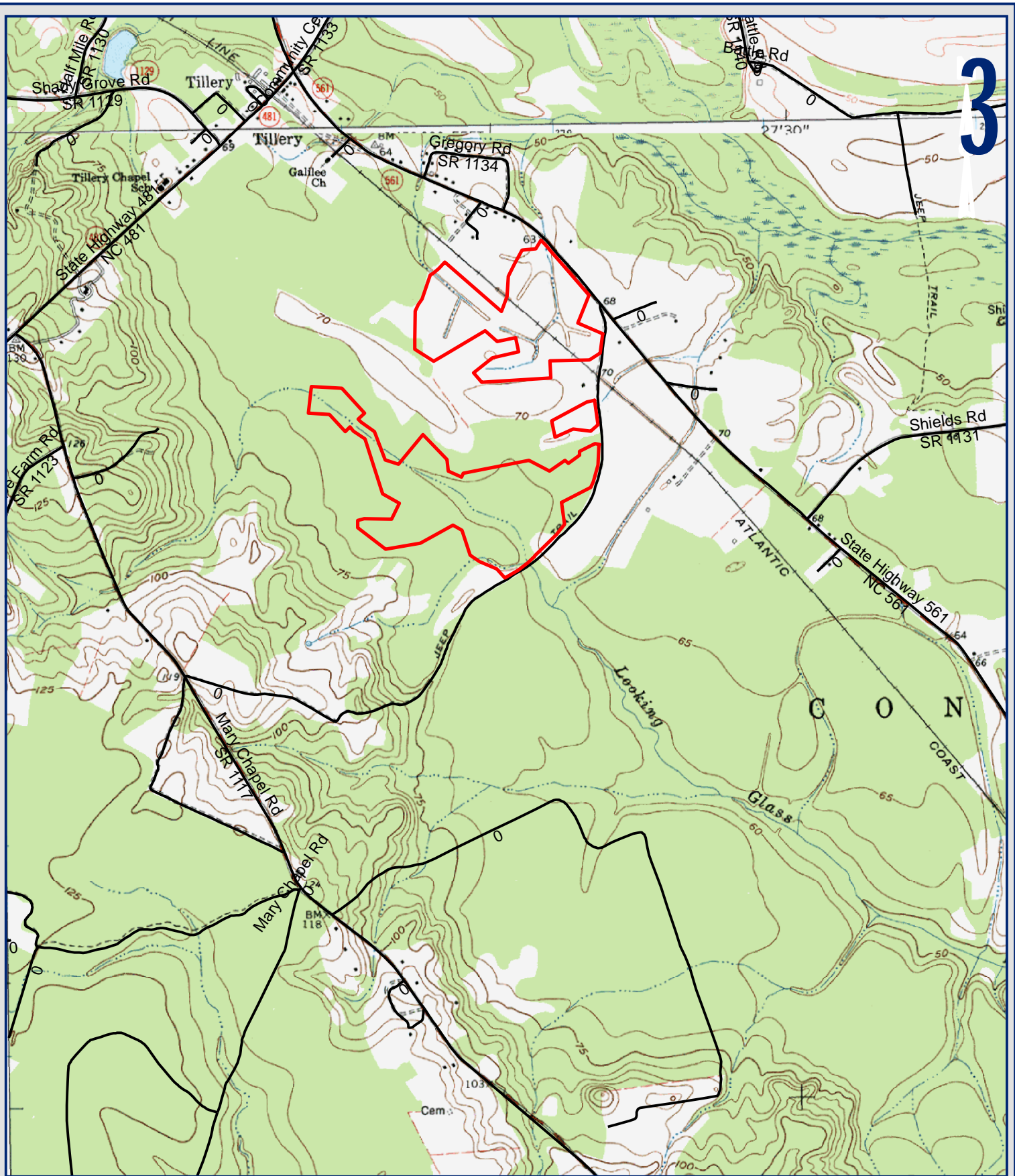


Figure 2.  
 USGS Quad Map  
 Conococonnara, Halifax County, NC  
 0 500 1,000 2,000 3,000 4,000  
 Feet

- LEGEND**
- Proposed Conservation Easement
  - Road
  - Stream

SOURCES: USGS, Scotland Neck, NC, Quadrangle, 1962  
 Dawson Crossroads, NC, Quadrangle, 1960



## 2.3 PROJECT HISTORY & SCHEDULE

**Table 2. Project Activity and Reporting History**

<b>Month</b>	<b>Activity</b>
November 2006	Approved Restoration Plan
March 2007	Construction Completed
March 2007	Post-restoration Monitoring Begins
November 2007	1st Annual Monitoring Report
November 2008	2nd Annual Monitoring Report
November 2009 (Scheduled)	3rd Annual Monitoring Report
November 2010 (Scheduled)	4th Annual Monitoring Report
November 2011 (Scheduled)	5th Annual Monitoring Report

**Table 3. Project Contacts**

<b>Contact</b>	<b>Firm Information</b>
<b>Project Manager</b> Norton Webster	EBX-Neuse 1, LLC (919) 608-9688
<b>Designer</b> Jeff Keaton, PE	WK Dickson and Co., Inc (919) 782-0495
<b>Monitoring Contractor</b> Daniel Ingram	WK Dickson and Co., Inc (919) 782-0495

## 3.0 HYDROLOGY

### 3.1 HYDROLOGIC SUCCESS CRITERIA

As stated in the Restoration Plan, the hydrology success criterion for the site is to restore the water table at the site so that it will remain within 12 inches of the soil surface for at least 7 percent of the growing season continuously (approximately 15 days). The growing season is from March 30 to November 4. Based on daily minimum temperature greater than 28<sup>o</sup> Fahrenheit occurring in 5 of 10 years the growing season for Halifax County is 214 day long. Gauge data will be compared to reference wetland well data in growing seasons with less than normal rainfall. In periods of low rainfall, if a restoration gauge hydroperiod exceeds the reference gauge hydroperiods and both exceed five percent of the growing season, then the gauge will be deemed successful. The results of hydrology monitoring across the wetland restoration site is presented in this annual monitoring report.

### 3.2 DESCRIPTION OF HYDROLOGY MONITORING EFFORTS

Twelve automated Infinities groundwater gauges and one rain gauge were installed prior to the beginning of the first growing season (Figure 3). Three additional automated groundwater gauges were installed in a reference wetland. Groundwater gauges were installed to a minimum depth of 40 inches below the ground surface. The monitoring protocol for the site specifies that automated monitoring stations will be downloaded and checked for malfunctions on a monthly basis. During monthly site visits, manual groundwater gauges are read and rainfall totals are collected from the on-site rain gauge. During the 2008 growing season, all fifteen automated loggers performed well and no periods of missing data were encountered.

#### *Automated Gauges*

Infinities automatic groundwater gauges record water table elevations twice daily at 08:00 and 20:00. These automatic gauges employ pressure sensors that record water elevation above the



bottom of the sensor (with atmospheric pressure compensation). Immediately adjacent to each automatic gauge is a manual calibration gauge. The calibration water table depth is recorded at monthly downloads. To determine wetland hydroperiods the automatically recorded data are compared to the calibration data to determine a standard correction factor between the calibration gauge and the automatic gauge for each location. The standard correction factor is applied to correct daily readings. The corrected daily readings are used to determine wetland hydroperiods.

#### *Data Interpretation*

Wetland hydroperiods are calculated from twice daily water table depth elevations. A hydroperiod is calculated if the water table is equal to or less than -12 inches below ground surface for at least 24 hours. If a gauge falls below -12 inches for two consecutive readings (24 hours) then the hydroperiod ends at the last reading within -12 inches. If a gauge falls below -12 inches for only one reading then maintains a reading above -12 inches for a minimum of 24 hours then the hydroperiod is calculated continuously. This methodology accounts for minor technical malfunctions experienced by the automatic gauges.

### **3.3 RESULTS OF HYDROLOGY MONITORING**

The following hydroperiod statistics were calculated for each monitoring station during the growing season: 1) most consecutive days that the water table was within twelve inches of the surface; 2) cumulative number of days that the water table was within twelve inches of the soil surface; and 3) number of times that the water table rose to within twelve inches of the soil surface (**Table 4**). Depth of groundwater for each of the monitoring gauges is shown in a graph with precipitation (**Figure 4**). This hydrograph demonstrates the reaction at each monitoring location of the groundwater level to specific rainfall events. Raw hydrograph data collected from the monitoring gauges is provided in **Appendix C**.

The site was designed to function as a non-riverine wetland system. Hydrology in these wetlands is driven by precipitation, nearly level topography, and restrictive soil horizons. It was observed that water table elevations rose higher following successive rainfall events throughout the growing season, indicating recharge was occurring. Also, wetland depressions and plugged ditches retained standing water throughout the growing season. The data collected for the 2008 growing season for this site indicate it is performing as described in the Mitigation Plan, with varying degrees of wetness documented.

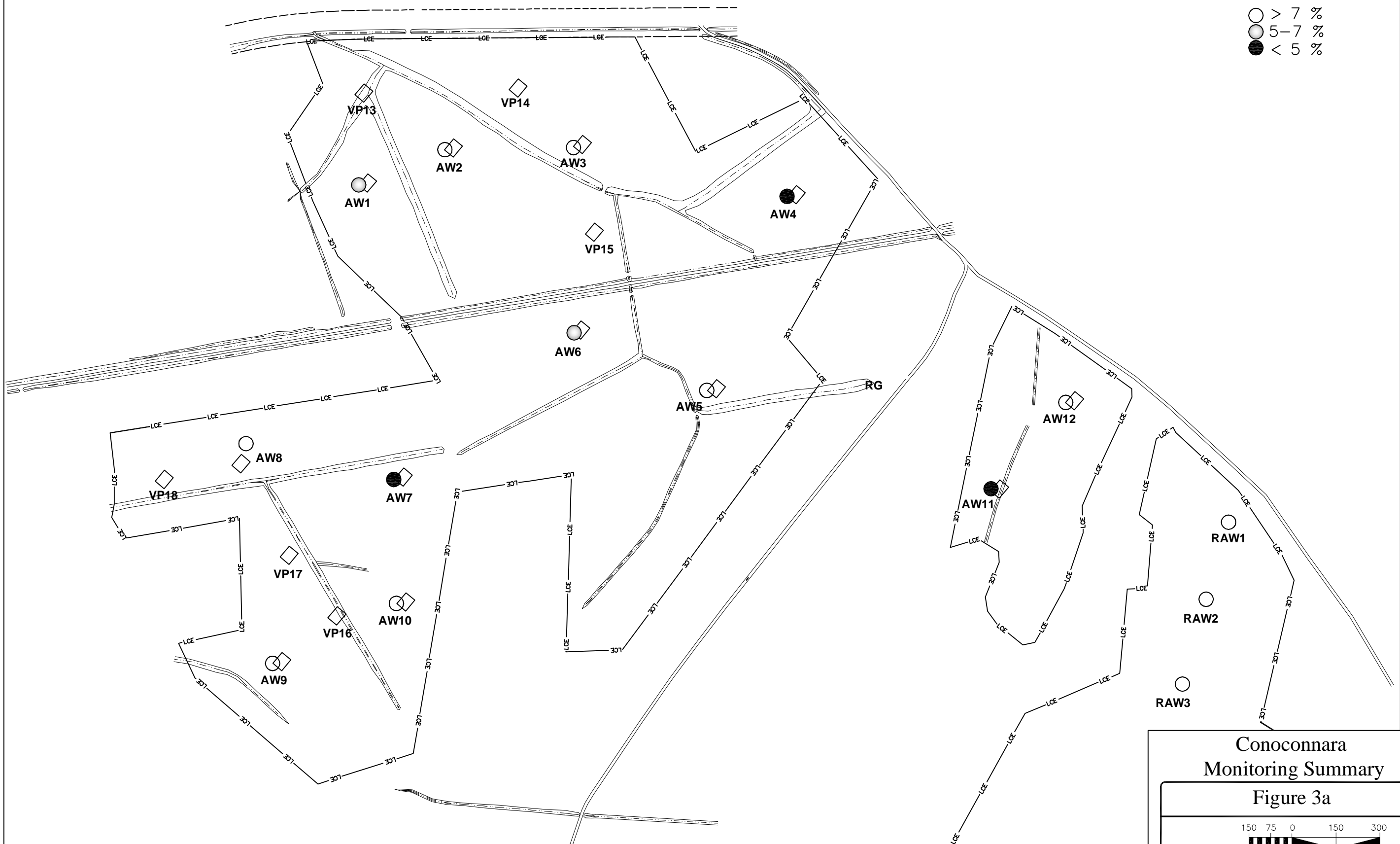
#### **3.3.1 Site Data**

The results of hydrology monitoring in 2008 are presented in **Table 4** and **Figures 4a – 4c**. Locations of each automatic groundwater gauge and its 2008 growing season results can be found on **Figure 3a and 3b**.

The Conoconnara mitigation site again experienced lower than normal rainfall for a second consecutive growing season. Seven of the twelve groundwater gauges exceeded the 7 percent hydrologic success criteria. All gauges but one (AW11) experienced saturated conditions early in the growing season. Gauge AW11 is routinely ponded with surrounding water during monthly site visits, but it appears little infiltration is occurring. Gauges AW1 and AW6 recorded hydroperiods of greater than 5 percent of the growing season. The lower performing gauges are AW4, AW7, and AW11, which recorded hydroperiods from 0 to 4 percent saturation during the 2008 growing season. These gauges also appear to have little infiltration despite standing water in adjacent areas. Gauges AW1, AW6, and AW7 achieved 7 percent hydroperiods between 15 and 21 inches below the surface, indicating that water table-recharge is still occurring.

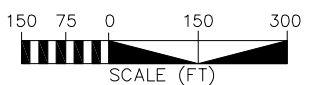
WETLAND HYDROPERIOD

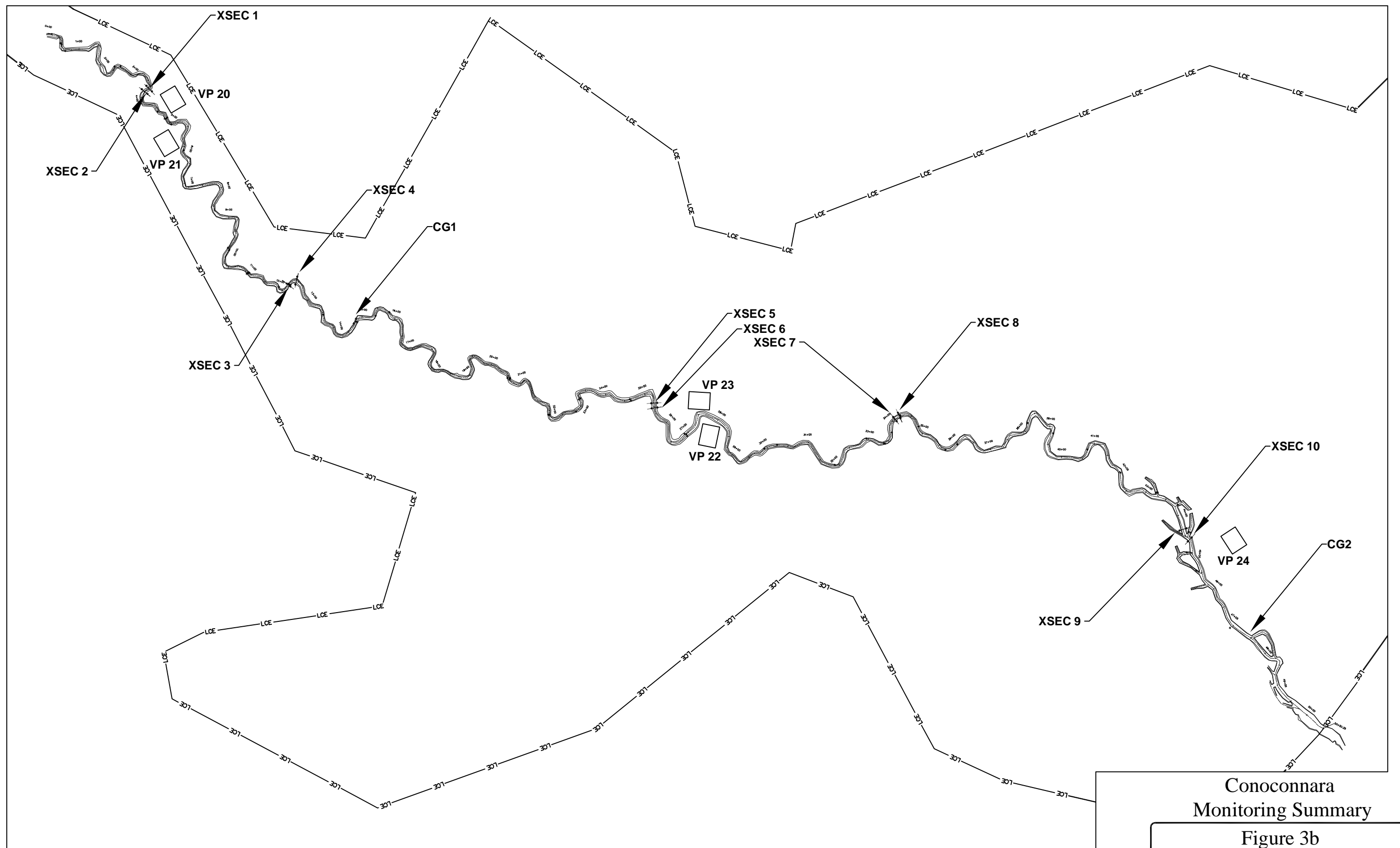
- > 7 %
- ◐ 5-7 %
- < 5 %



Conoconnara  
Monitoring Summary

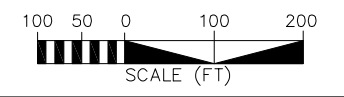
Figure 3a





Conoconnara  
Monitoring Summary

Figure 3b

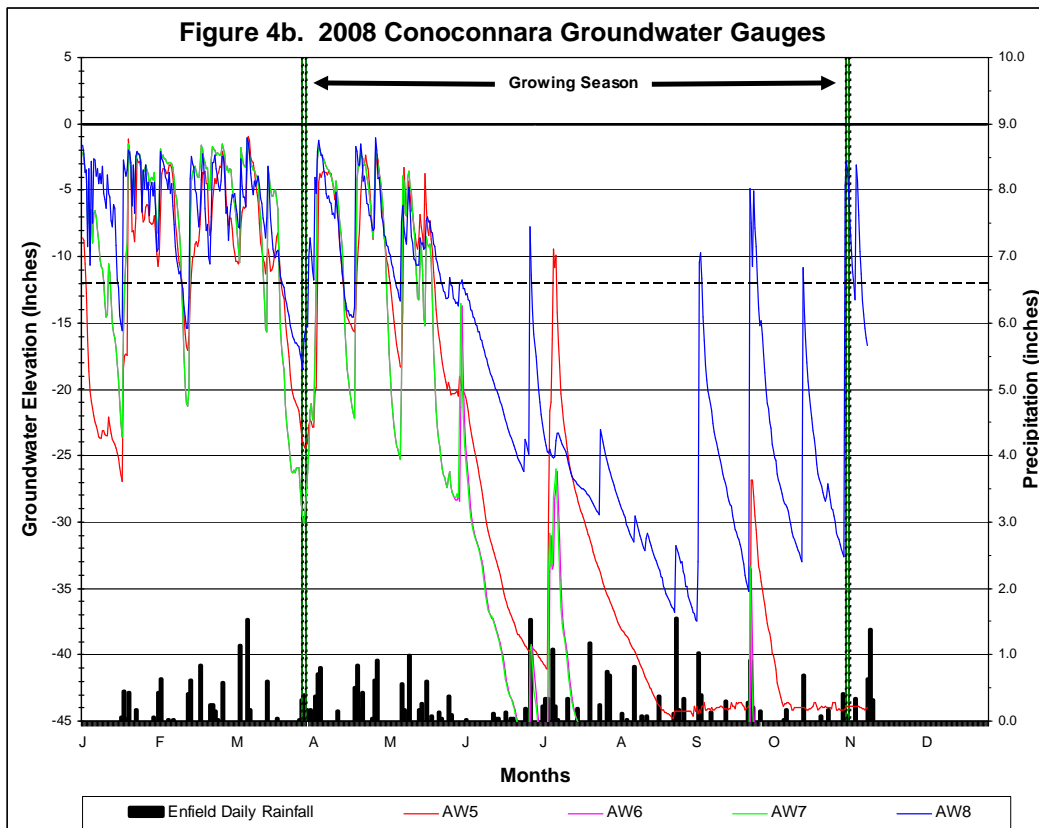
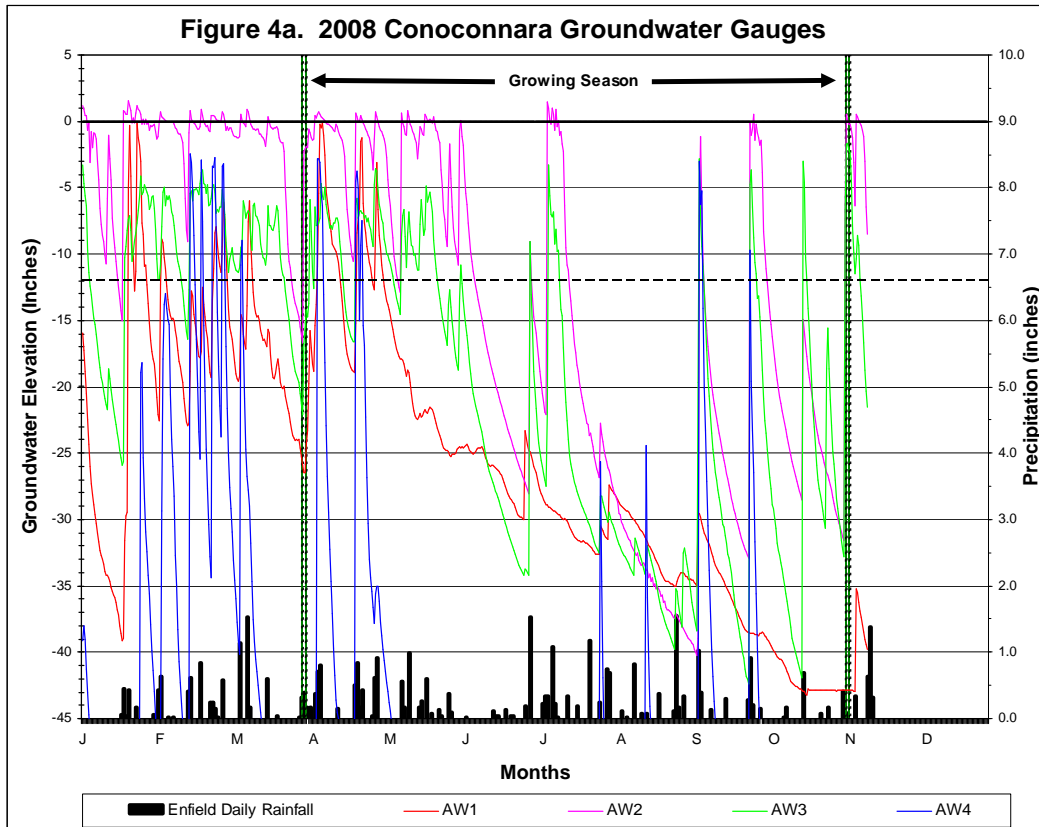


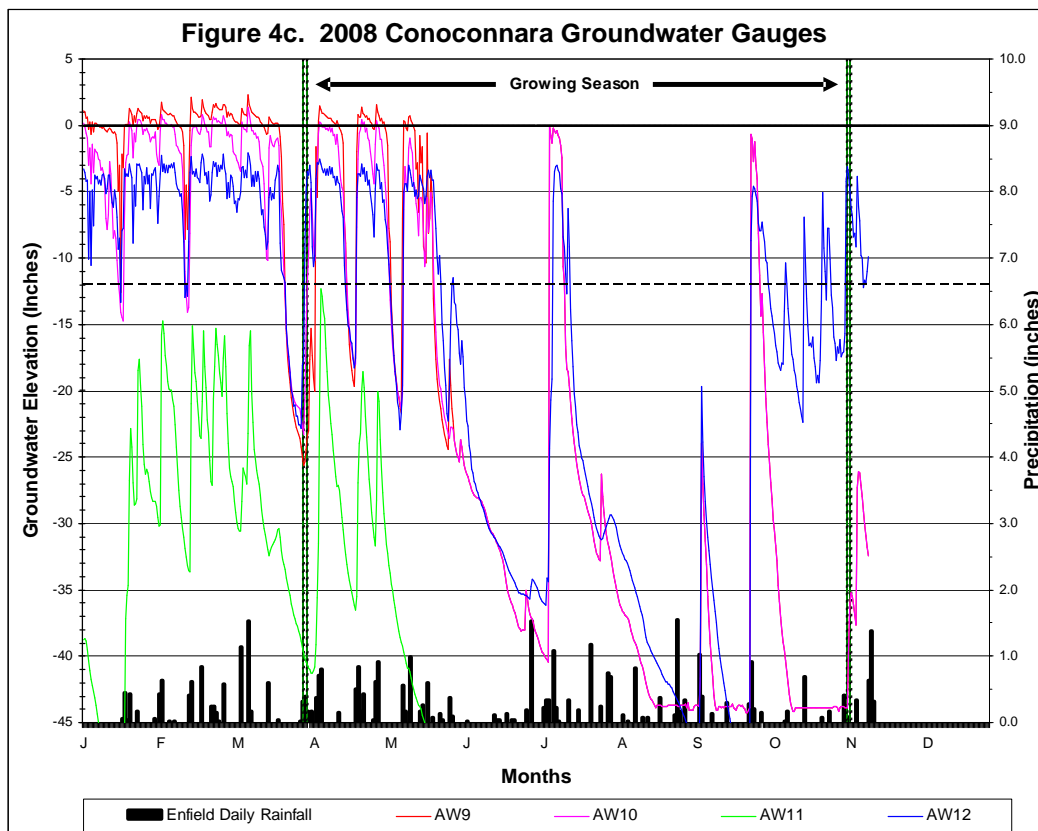
Gauges AW4 and AW11 achieved 7 percent hydroperiods at depths of 45 and 35 inches below the surface, respectively. Despite frequent ponding, little re-charge has occurred at these locations.

**Table 4. Hydrologic Monitoring Results**

<b>2008 Max Hydroperiod (Growing season 30-Mar through 4-Nov, 214 days)</b>					
<b>Gauge</b>	<b>Consecutive</b>		<b>Cumulative</b>		<b>Occurrences</b>
	<b>Days</b>	<b>Percent of growing Season</b>	<b>Days</b>	<b>Percent of growing Season</b>	
AW1	10	5	20	9	3
AW2	39	18	89	42	7
AW3	17	8	57	27	8
AW4	4	2	7	3	3
AW5	14	7	38	18	4
AW6	12	6	34	16	5
AW7	9	4	23	11	6
AW8	17	8	55	26	8
AW9	14	7	50	23	5
AW10	16	7	44	21	4
AW11	0	0	0	0	0
AW12	18	8	69	32	10
REF AW1	55	26	56	26	2
REF AW2	54	25	55	26	2
REF AW3	35	16	45	21	4

Figure 4. Groundwater Hydrographs



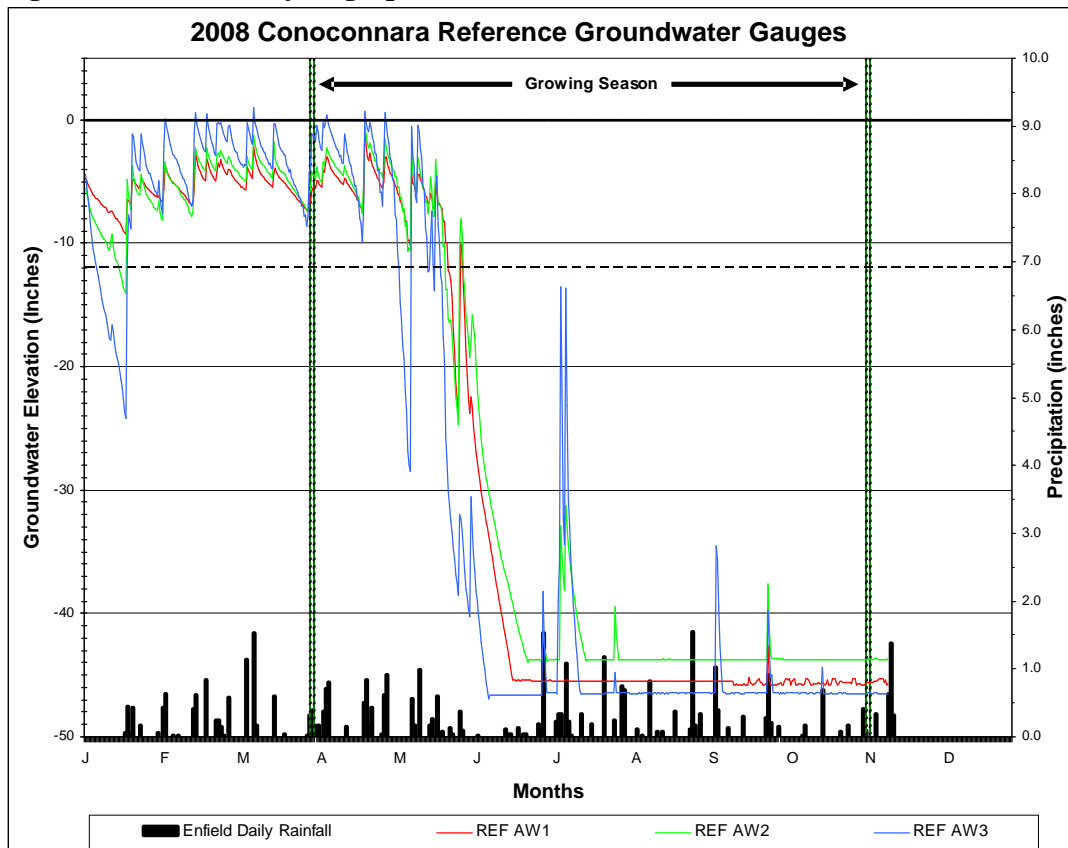


### 3.3.2 Reference Data

The approved Mitigation Plan provides that if the rainfall data for any given year during the monitoring period is not normal, the reference wetland data can be used to determine if there is a positive correlation between the performance of the restoration site and the natural hydrology of the reference site.

Three reference automated wells were observed during the 2008 growing season. The same hydroperiod statistics were calculated for each reference monitoring station during the growing season as were calculated for the site monitoring stations (**Table 4**). The reference wetland groundwater gauges exhibited wetland hydroperiods ranging from 16 to 26 percent of the growing season, which exceeded the 7 percent success criteria for the site. Raw hydrograph data collected from the monitoring gauges is provided in **Appendix C**.

Figure 5. Reference Hydrographs



### 3.3.3 Climate Data

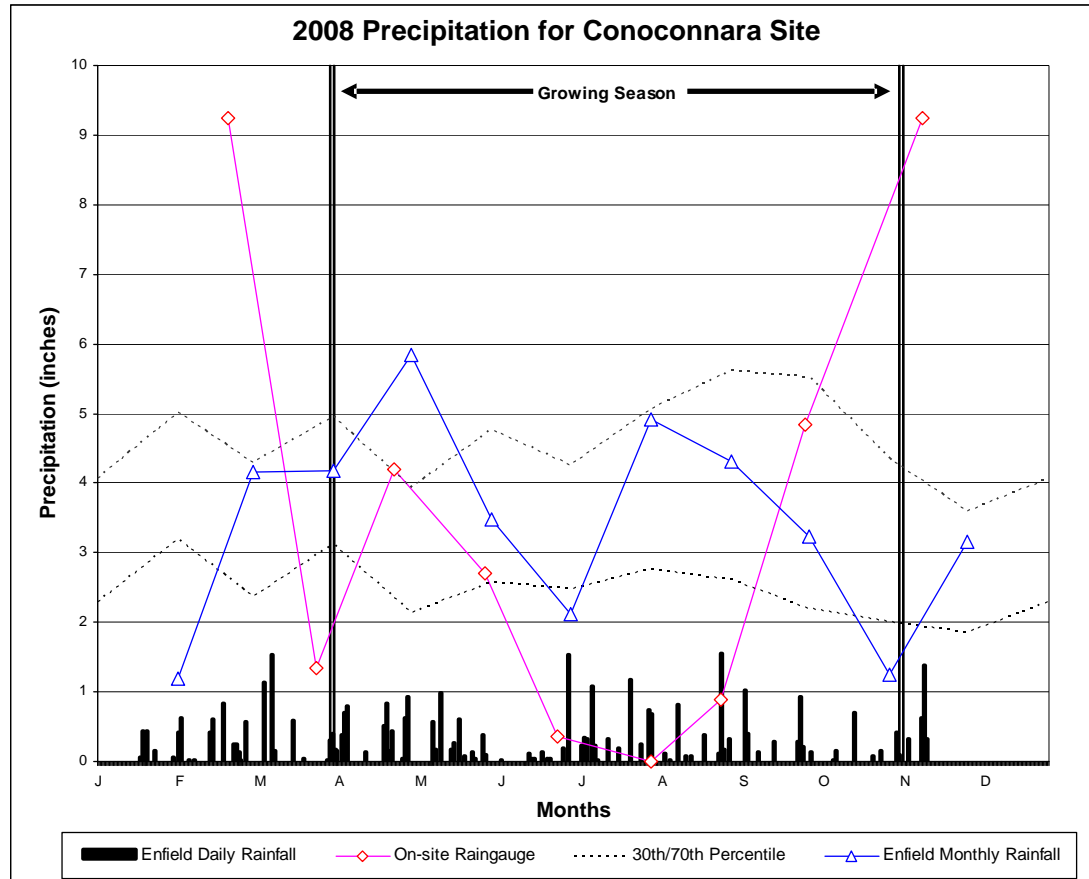
Table 5 and Figure 6 are a comparison of the 2008 monthly rainfall to historical precipitation for Halifax County (NRCS WETS Tables). Observed precipitation data were collected from an automated weather station in Enfield and an on-site manual rain gauge (Appendix C). No on-site gauge data was recorded for January, and February data is the cumulative rainfall for both months. The rainfall total from the Enfield weather station correlates well with data collected from the on-site manual rain gauge February through May. The on-site gauge recorded much lower rainfall in June, July, and August, and higher rainfall in September and November. During the July site visit, the rain gauge was found on the ground; it was possibly knocked off the post by a bird or animal. On-site rainfall amounts were within the normal limits in April through May as well as September.

**Table 5. Comparison of Normal Rainfall to Observed Rainfall**

Month	Average	Normal Limits		Enfield Precipitation	On-Site Precipitation
		30 Percent	70 Percent		
January	4.23	3.20	5.01	1.19	---
February	3.47	2.37	4.29	4.15	9.25
March	4.22	3.12	4.95	4.17	1.35
April	3.16	2.14	3.94	5.84	4.20
May	3.94	2.58	4.77	3.47	2.70
June	3.62	2.48	4.25	2.12	0.35
July	4.25	2.76	5.07	4.91	0.00
August	4.26	2.60	5.62	4.31	0.88
September	4.58	2.19	5.52	3.24	4.83
October	3.33	2.01	4.35	1.24	*
November	3.04	1.86	3.59	3.16	9.25
December	3.26	2.29	4.06	---	---
Total	45.36	29.60	55.42	37.80	32.81

\*One reading was taken on Nov. 13, which reflects precipitation for October through mid-November.

**Figure 6. 2008 Precipitation Data**





### **3.4 HYDROLOGIC CONCLUSIONS**

Data collected from the groundwater monitoring gauges on the Conoconnara Mitigation Site document that seven of twelve hydrology monitoring stations (AW2, AW3, AW5, AW8, AW9, AW10, and AW12) recorded a hydroperiod of at least 7 percent of the growing season. Gauges AW1 and AW6 recorded hydroperiods of greater than 5 percent of the growing season. The remaining three gauges (AW4, AW7, and AW11) recorded hydroperiods below 4 percent of the growing season, but the areas surrounding these gauges were frequently ponded. The only significant consecutive hydroperiods occurred during March through June and very few significant consecutive hydroperiods have been recorded since late July and late September 2008. Monitoring demonstrated that the hydrologic parameters of the mitigation site are similar to those of the reference site.

On-site rainfall data indicates that during the months of June through August it was unusually dry compared to normal rainfall totals.

Based on the observation of ponding and on the results from the mitigation site monitoring wells relative to the below normal rainfall at the site, it is concluded that most of the site is performing as designed.

All wetland ditch plugs and outlets are stable and well vegetated. During several site visits, a River otter (*Lutra canadensis*) has been spotted in the wetland restoration area. This indicates continuous on-site hydrology in the plugged ditches, creating quality otter habitat.

## **4.0 VEGETATION**

### **4.1 VEGETATION SUCCESS CRITERIA**

Successful establishment of vegetation in wetland restoration, wetland enhancement, and riparian areas will be the survival of 260 planted trees following Year 5 monitoring. The site must also meet the interim success criterion of the survival of at least 320 planted stems per acre at the end of the Year 3 monitoring period. Up to 20 percent of the species composition may be comprised of volunteers. Remedial action may be required should volunteers present a problem or exceed 20 percent composition.

Digital images will be used to subjectively evaluate the restoration site over time. A series of images over the five year monitoring period should demonstrate maturation of planted vegetation and volunteer hydrophytic species.

### **4.2 DESCRIPTION OF SPECIES AND VEGETATION MONITORING**

Twenty-four semi-permanent vegetation sampling plots were established within the planted areas to monitor the success of planted vegetation. The wetland vegetation plots are 0.10 acres in size and the riparian vegetation plots are 0.05 acres and 0.10 acres in size. The vegetation plots are distributed across the site but the precise location and orientation of the plots was random (see locations on as-built drawings in **Appendix A**). The plots cover approximately 2 percent of the restored site. Each planted woody stem is located with a three-foot high section of white PVC pipe and identified with a permanent number.

#### 4.3 RESULTS OF VEGETATION MONITORING

For each of the monitoring stations stem counts by species and estimated percent cover were recorded (**Table 6**). Total density and survival from baseline were calculated. Each planted tree species is identified across the top row, and each plot is identified down the left column. All vegetation plots but one (Plot 15), had a decrease in survivability during the 2008 growing season. Vegetation plots VP2, VP3, VP4, VP5, VP10, and VP13 are below the minimum 260 trees per acre success criteria. Three other vegetation plots minimally meeting success criteria are VP11 with 270 trees per acre and VP14, and VP16 with 280 trees per acre. The remaining 15 vegetation plots meet the interim success criteria, but showed high mortality. The locations of each vegetation plot and the 2008 monitoring status are shown on **Figure 7**.

During the 2008 monitoring season, the herbaceous cover increased significantly. This may be one factor contributing to tree mortality rate. Several trees were noticed to be completely covered by grasses and other weedy species hindering light and needed nutrients.

Very few volunteer woody species were observed throughout the wetland restoration areas. Common volunteer species were in vegetation plots located along the restored stream (VP20, VP21, VP22, and VP23) and in the wetland enhancement areas (VP19). The volunteer species most commonly found included sweetgum (*Liquidambar styraciflua*), green ash (*Fraxinus pennsylvanica*), persimmon (*Diospyros virginian*), eastern baccharis (*Baccharis halimifolia*), stolonbearing hawthorn (*Crataegus iracunda*), black willow (*Salix nigra*), and slippery elm (*Ulmus rubra*). No volunteers were present in numbers large enough to jeopardize vegetation success.

#### 4.4 VEGETATION OBSERVATIONS & CONCLUSIONS

The site was originally planted in non-riverine hardwoods and riparian hardwood species in March 2006. During 2008, the wetland restoration areas were replanted with two year old trees to achieve the wetland success criteria. The average number of surviving trees per acre across the 24 vegetation plots has fallen to 364 with a range of 210 to 820. The existing vegetation monitoring plots provide a good representation of the entire site, thus it has been determined that supplemented planting is necessary. The wetland restoration area was replanted in early 2008 but the newly planted trees suffered almost complete mortality.

Herbaceous vegetation on the site is well established. Estimated percent cover ranged from 40 to 100 percent with an average of 81 percent. Hydrophytic herbaceous vegetation is common and includes giant cane (*Arundinaria gigantea*), sedge (*Carex* sp.), and smartweed (*Polygonum pensylvanicum*). The presence of these herbaceous wetland plants helps to confirm the presence of wetland hydrology on the site.

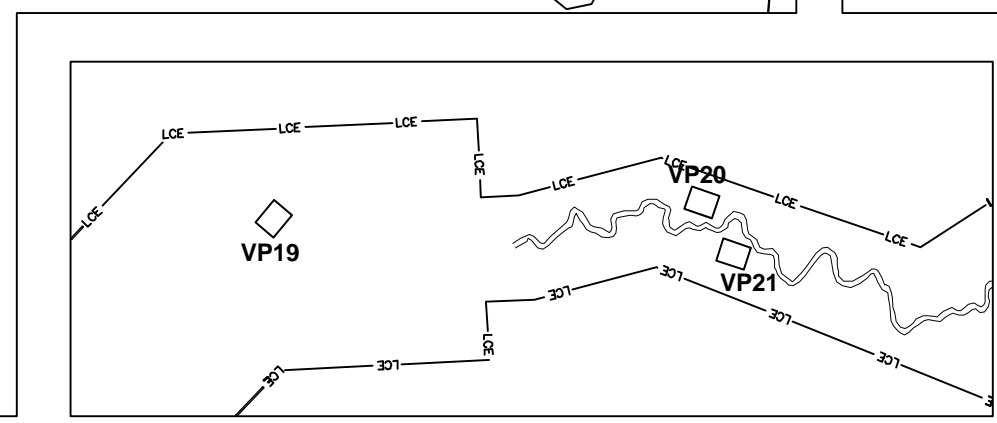
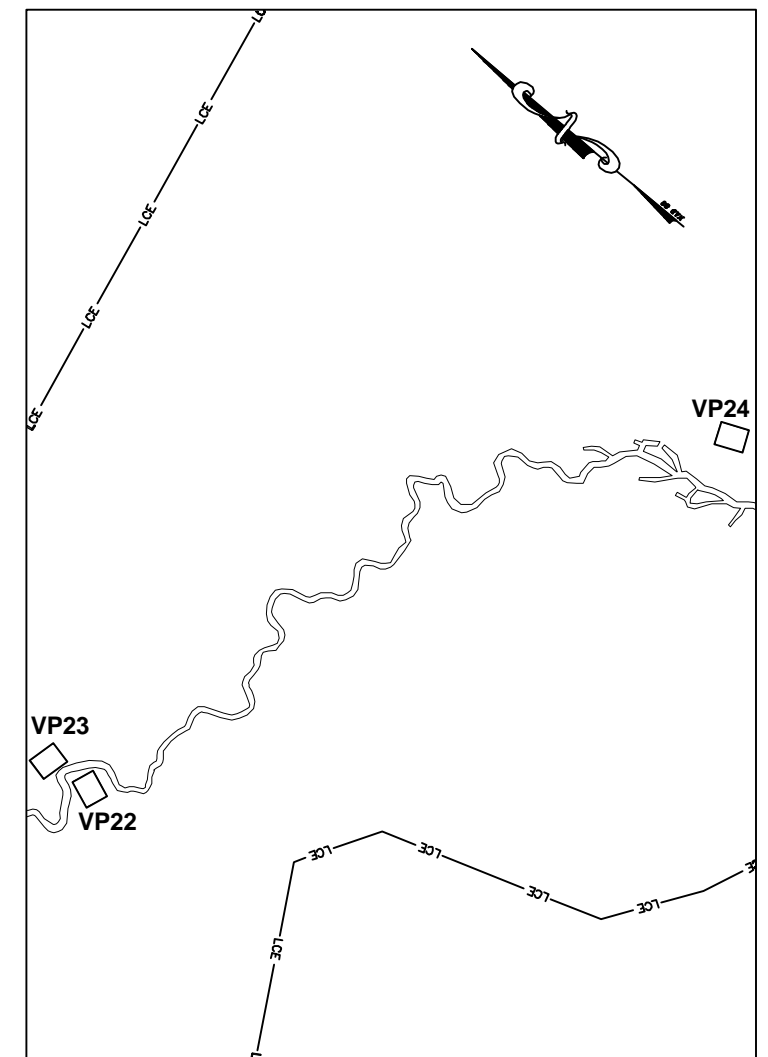
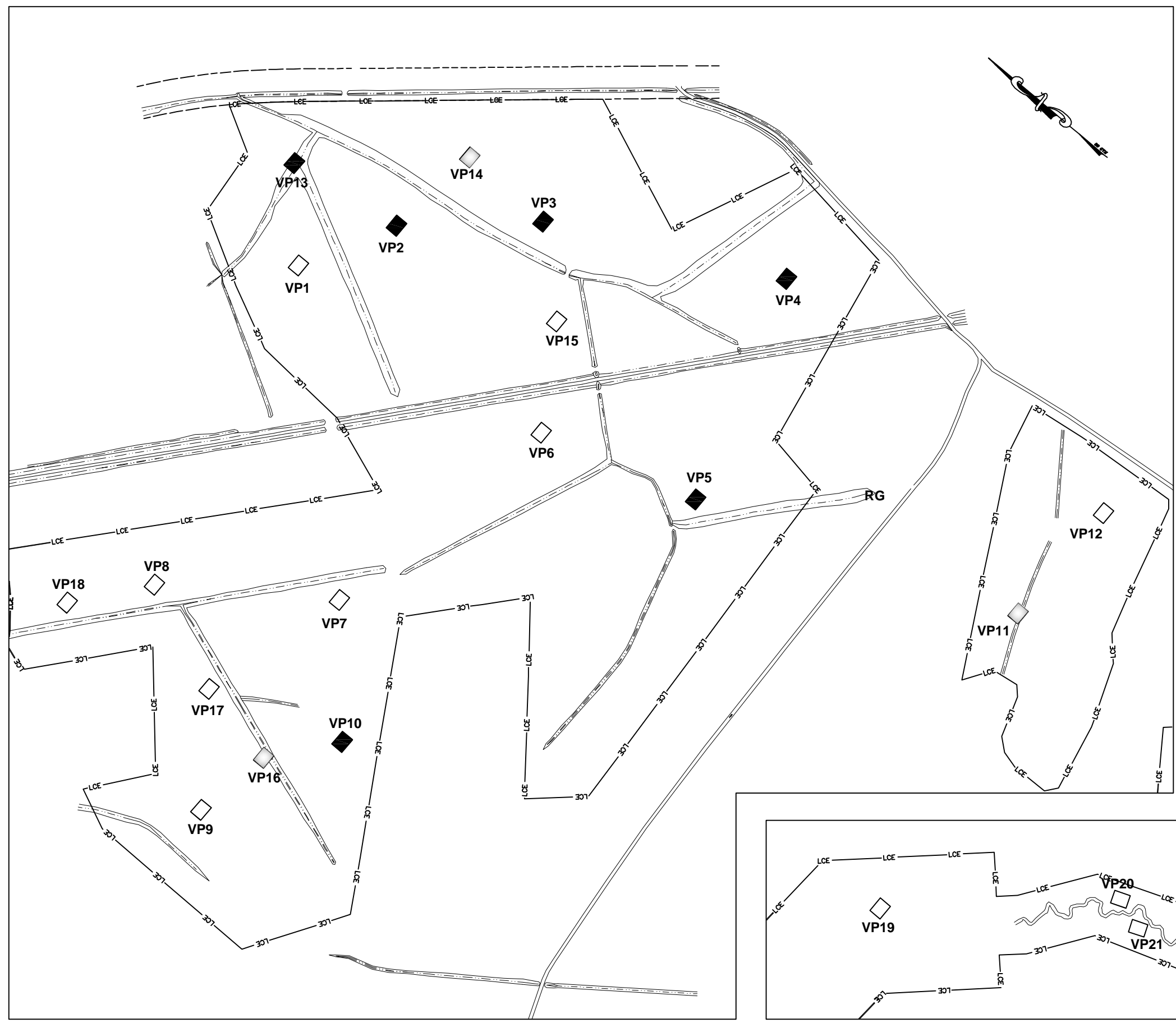
*Conoconnara Mitigation Site  
Annual Monitoring Report for 2008 (Year 2)*

**Table 6. Results of Vegetation Monitoring**

Plot No.	Size (acres)	Location	American Elm	Bald Cypress	Blackgum	Cherrybark Oak	Green Ash	Laurel Oak	Musclewood	Overcup Oak	River Birch	Swamp blackgum	Swamp Chestnut Oak	Sycamore	Unknown	Water Oak	Water Tupelo	Willow Oak	Yellow Poplar	Baseline Trees per Acre	2007 Trees per Acre	2008 Trees per Acre	2007 Percent Cover	2008 Percent Cover
1	0.1	Wet Rest.	8	0	0	2	7	0	4	0	1	2	0	0	1	7	3	4	4	580	500	430	15	80
2	0.1	Wet Rest.	0	4	0	0	0	0	0	0	0	3	5	2	1	2	0	4	0	540	340	210	30	60
3	0.1	Wet Rest.	1	1	0	0	3	0	1	0	0	2	3	0	0	4	2	6	0	450	290	230	15	80
4	0.1	Wet Rest.	2	0	2	3	0	2	1	0	1	2	0	0	2	0	0	3	4	550	380	220	5	65
5	0.1	Wet Rest.	0	8	1	0	4	0	0	0	0	0	2	1	0	4	2	1	0	550	380	230	10	90
6	0.1	Wet Rest.	8	1	0	3	5	0	7	0	0	1	1	0	0	4	0	3	3	540	450	360	15	75
7	0.1	Wet Rest.	5	0	0	4	7	0	1	0	1	2	4	0	0	0	0	4	4	610	540	320	25	100
8	0.1	Wet Rest.	0	8	3	0	8	0	0	0	0	3	4	0	0	2	1	4	0	560	390	330	50	100
9	0.1	Wet Rest.	4	0	1	5	4	0	7	0	2	2	0	0	1	1	1	5	2	790	710	350	20	95
10	0.1	Wet Rest.	0	6	0	0	5	1	0	0	0	0	4	0	0	4	0	5	0	650	420	250	40	80
11	0.1	Wet Rest.	0	5	0	0	8	0	0	0	0	0	7	0	0	2	1	4	0	600	470	270	15	85
12	0.1	Wet Rest.	1	0	0	2	2	0	1	0	0	7	1	1	0	6	1	14	1	590	520	370	10	85
13	0.1	Wet Rest.	1	1	0	0	5	0	2	1	1	0	0	0	8	1	1	3	0	540	400	240	20	100
14	0.1	Wet Rest.	7	2	0	1	4	2	1	0	0	1	0	0	1	6	1	1	1	550	470	280	10	70
15	0.1	Wet Rest.	0	8	0	0	7	0	0	0	0	3	1	1	0	8	6	2	0	540	320	360	15	85
16	0.1	Wet Rest.	0	3	1	0	4	2	0	0	0	3	3	0	0	6	1	5	0	560	320	280	35	90
17	0.1	Wet Rest.	0	7	0	0	8	0	0	0	0	7	3	0	0	2	1	4	0	530	390	320	30	95
18	0.1	Wet Rest.	0	3	0	0	19	1	0	0	0	1	4	1	0	0	0	3	0	620	360	320	10	95
19	0.1	Wet Enhanc.	0	3	0	0	6	3	1	0	0	10	4	0	0	1	3	3	0	650	540	340	80	90
20	0.05	Riparian	0	0	0	1	13	1	0	1	0	0	0	0	0	1	0	0	0	460	340	340	10	50
21	0.05	Riparian	0	1	0	0	18	1	0	1	0	0	2	2	0	1	1	8	0	820	720	700	10	75
22	0.05	Riparian	0	0	0	0	17	1	0	1	3	3	0	1	1	3	0	7	0	1000	800	740	20	60
23	0.05	Riparian	0	2	0	2	20	0	0	0	2	3	0	2	0	3	0	7	0	960	860	820	5	40
24	0.1	Riparian	0	3	0	0	25	0	0	0	3	1	0	2	0	4	2	2	0	610	600	420	50	100
		<b>Percent Composition</b>	<b>5</b>	<b>9</b>	<b>1</b>	<b>3</b>	<b>27</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>8</b>	<b>6</b>	<b>2</b>	<b>2</b>	<b>10</b>	<b>4</b>	<b>14</b>	<b>3</b>	<b>Avg: 619</b>	<b>480</b>	<b>364</b>	<b>23</b>	<b>81</b>

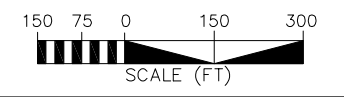
VEGETATIVE SUCCESS

- > 320
- ▒ 260-320
- < 260



Conoconnara  
Vegetation Problem Areas

Figure 7



## 5.0 STREAM MONITORING

### 5.1 STREAM SUCCESS CRITERIA

As stated in the Mitigation Plan, the stream restoration success criteria for the site include the following:

- *Cross Sections.* The mitigation plan for the Conoconnara project requires 10 cross sections to be monitored on the restored channel. The cross sections were established during monitoring set-up in evenly distributed pairs of one shallow and one pool per 1,000 linear feet of restored stream. Locations of cross sections are specified on as-built drawings in Appendix A. Each cross section will be photographed and surveyed annually including measurements of floodplain, top of bank, bankfull, edges of water, and thalweg. In addition, any fluvial features present will be documented.
- *Longitudinal Profile.* Longitudinal profiles will be surveyed in years one through five of the monitoring period. The length of the measured profile will be at least 3,000 linear feet. Features measured will include thalweg, inverts of in-stream structures, water surface, bankfull and top of low bank. The longitudinal profiles presented in Appendix C were derived from the as-built survey data. Looking Glass Run is a sand bed channel and is expected to have a dynamic bed and profile.
- *Hydrology.* Two crest gauges were installed at the site: one near the upstream end of Reach 2 (STA 11+95) and one near the downstream end of Reach 3 (STA 48+46). Crest gauges will be checked monthly to document high flows. During the gauge inspections any high water marks will or debris lines observed will be documented and photographed.
- *Photo Reference Stations.* Photographs will be used to subjectively evaluate channel aggradation or degradation, bank erosion, success of riparian vegetation and effectiveness of erosion control measures.

### 5.2 STREAM MORPHOLOGY MONITORING PLAN

To document the stated success criteria, the following monitoring program was instituted following construction completion on the Conoconnara Site:

#### 5.2.1 Cross Sections

Two permanent cross sections were installed per 1,000 linear feet of stream restoration work, with one of the locations being a shallow cross section and one location being a pool cross section. A total of 10 permanent cross sections were established across the mitigation site. Each cross section was marked on both banks with permanent pins to establish the exact transect used. Permanent cross section pins were surveyed and located relative to a common benchmark to facilitate easy comparison of year-to-year data. The annual cross section surveys include points measured at all breaks in slope, including top of bank, bankfull, inner berm, edge of water, and thalweg. Permanent cross sections for 2008 (Year 2) were surveyed in September 2008.

#### 5.2.2 Longitudinal Profile

A longitudinal profile will be completed each monitoring year. The profile will be conducted for a length of restored channel at least 3,000 feet in length. Measurements will include thalweg, water surface, inner berm, bankfull, and top of low bank. A common benchmark will be used each year to facilitate comparison of year-to-year data.

### **5.2.3 Hydrology**

Two crest gauges were installed on the site to document bankfull events. The gauges are checked each month, and record the highest out-of-bank flow events that occurred during the past month. The gauge locations are shown on **Figure 3**.

### **5.2.4 Photo Reference Stations**

Photographs are used to visually document restoration success. All stream structures and cross section locations are photographed, as well as any potential problem areas. Photographs are taken at least once per year. A photo log of the Conoconnara site is included as **Appendix D**.

## **5.3 STREAM MORPHOLOGY MONITORING RESULTS**

In-stream structures installed within the restored stream included log vanes, log weirs, woody debris bundles, fords, and root wads. Visual observations of structures throughout the past growing season have indicated that most structures are functioning as designed. Localized areas of elevated profile (shallows) have been colonized by wetland plant species due to low stream flow. Several log grade control and log toe structures are experiencing minor erosion along the banks. This is likely the result of high velocity flows. No corrective actions are recommended at this time as the channel appears to be moving toward stability.

Photographs were taken throughout the monitoring season to document the evolution of the restored stream channel (**Appendix D**). Herbaceous vegetation is moderately dense to dense along the restored stream. The banks with sod mats are very densely vegetated. The live stake survival is very high. Pools have maintained a variety of depths and habitat qualities, depending on the location and type of scour features (logs, root wads, transplants, etc.). During the early portion of the growing season a consistent stream flow was present during the monthly site visits. The stream flow waned during the latter part of the growing season, however, water was observed in the pools throughout the growing season.

### **5.3.1 Cross Sections**

Year 2 cross-section monitoring data for stream stability were collected during September 2008 and compared to the As-Built data and Year 1. Permanent cross-sections document the stream dimension at 10 locations (**Appendix B**). The cross-sections show that there has been little adjustment to stream dimension since construction. All monitored cross-sections fell within the quantitative parameters defined for "E" type channels.

### **5.3.2 Longitudinal Profile**

A longitudinal profile survey was conducted in Year 2 (**Appendix B**). The profile indicated there has been very little adjustment to the stream profile or dimension since construction. Stream areas requiring observation are described in **Table 7**, and their locations are shown on **Figure 8**.

**Table 7. Stream Areas Requiring Observation**

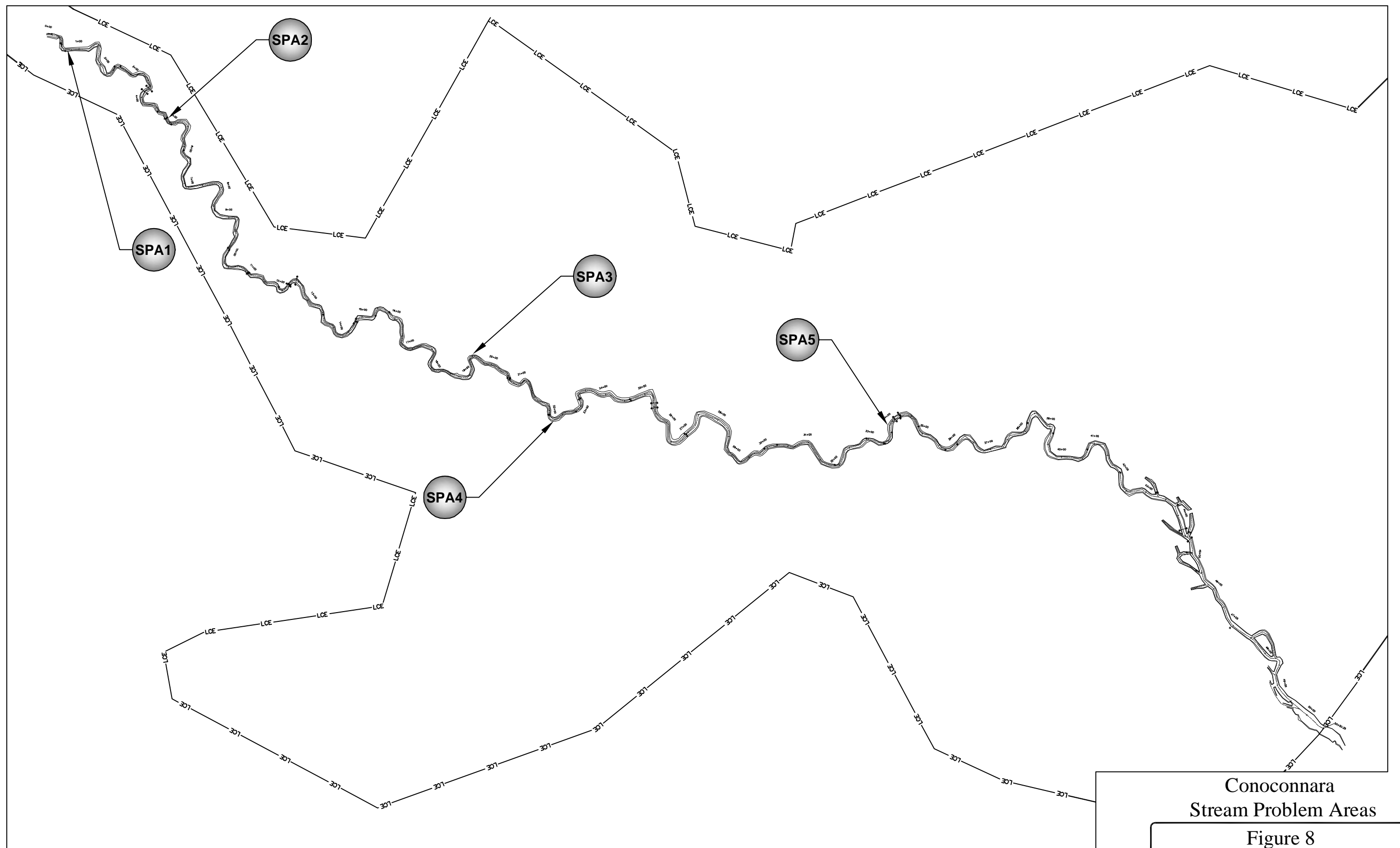
SPA	Station	Feature	Description
1	0+75	Log Toe	Washed out away from right bank
2	4+90	Log Grade Control	Erosion behind left log toe
3	19+05	Log Grade Control	Scouring around log toe
4	22+20	Log Grade Control	Erosion behind right log toe
5	35+75	Log Toe	Right bank erosion behind log toe

### 5.3.3 Hydrology

During 2008, numerous bankfull events on the site were documented during several site visits through the use of the on-site crest gauges and visual evidence of out-of-bank flow. The largest stream flow documented by the downstream crest gauge (CG2) was a flow that occurred during June and was approximately 2.10 feet above the bankfull stage at the crest gauge. Both crest gauges recorded readings during the months of February, March, April, and May. Crest gauge 2 has recorded an out-of-bank event 8 times during the 2008 monitoring season possibly due to off-site beaver activity. Crest gauge data is provided in **Table 8** and in **Appendix C**.

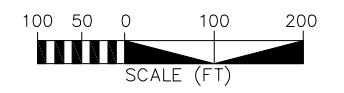
**Table 8. Crest Gauge Data**

Month	CG1	CG2
January	---	---
February	0.55	1.25
March	0.92	1.70
April	0.80	0.75
May	0.85	2.10
June	0.00	1.75
July	0.00	0.25
August	0.00	0.30
September	0.00	0.30
October	---	---
November	0.00	0.00



Conoconnara  
Stream Problem Areas

Figure 8



SCALE (FT)



**Table 9. Summary of Morphologic Monitoring Parameters**

<b>Parameter</b>	<b>As-Built Reach 1</b>	<b>Year 2 Reach 1</b>	<b>As-Built Reach 2</b>	<b>Year 2 Reach 2</b>	<b>As-Built Reach 3</b>	<b>Year 2 Reach 3</b>
Stream Type	E5	E5	E5	E5	DA	DA
Drainage Area (Ac)	142.00	142.00	373.00	373.00	562.00	562.00
Bankfull Cross-Section Area, Abkf (sq ft)	14.225	6.25	15.075	7.90	12.5	6.60
Avg. Bankfull Width, Wbkf (ft)	14.475	8.60	12.45	10.35	12	10.20
Bankfull W/D	15.65	11.80	10.9	13.40	11.55	15.50
Bankfull Mean Depth, Dbkf (ft)	0.925	0.75	1.25	0.75	1	0.70
Bankfull Max Depth, Dmax (ft)	2.025	1.25	3.1	1.50	2.15	1.10

#### **5.4 STREAM CONCLUSIONS**

Overall the Conoconnara mitigation site is functioning as designed. The floodplain and stream banks are becoming well vegetated with diverse grasses and woody species keeping erosion to a minimum. Several log grade control and log toe structures are experiencing minor erosion along the banks. This is likely the result of high velocity flows and sandy soil cohesion. Cross sections have shown some channel constriction and aggradation as the channel stabilizes. No corrective actions are recommended at this time as the channel appears to be moving toward stability.

#### **6.0 CONCLUSIONS AND RECOMMENDATIONS**

- Hydrologic monitoring has shown that wetland hydrology is being achieved throughout most of the site. Seven of twelve gauges recorded successful hydroperiods of at least 7 percent of the growing season. Two of the twelve gauges recorded hydroperiods in the 5 to 6 percent range. The remaining three gauges (AW4, AW7, and AW11) recorded hydroperiods below 4 percent of the growing season, but the areas surrounding the gauges were frequently ponded. Based on the results of the past two years of groundwater monitoring and the drought conditions of last year, it was concluded that overall the site is performing as designed and recharge is still occurring.
- The restored stream channel has remained stable and is providing the intended habitat and hydrologic functions. All monitored cross sections and profiles for 2008 show little adjustment in stream dimension. Based on the results of the monitoring over the last two years, it was concluded that the site is on track to achieve the stream success criteria specified in the Mitigation Plan for the site.
- Vegetation monitoring efforts have documented the average number of stems per acre on site to be 364, which is a survival rate of 59 percent based on the initial planting count of 619 stems per acre. Surviving plant densities range from 210 to 820 stems per acre. The existing vegetation monitoring plots provide a good representation of the entire site, thus it has been determined that supplemented planting is necessary at this time.

*Conoconnara Mitigation Site  
Annual Monitoring Report for 2008 (Year 2)*

- Monitoring of vegetation, stream stability, and hydrology of this site will continue through 2009.

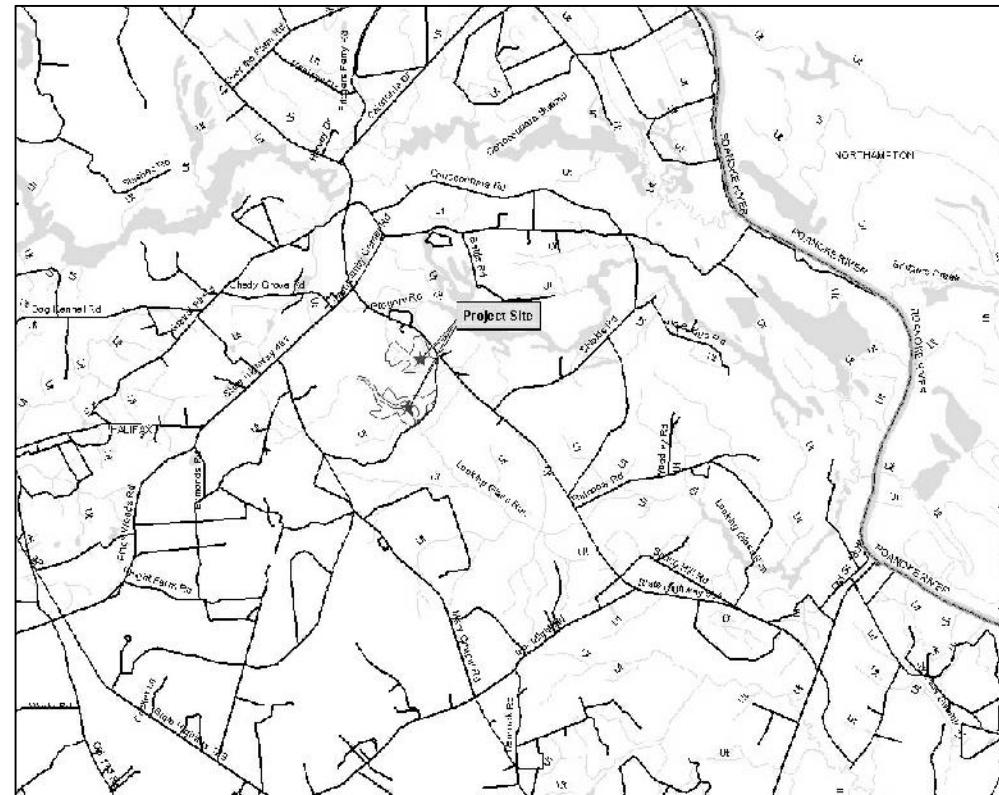
# **APPENDIX A**

## **As-Built Survey**

# CONOCONNARA MITIGATION PROJECT

## AS-BUILT PLANS

**APRIL 2007**



VICINITY MAP  
NTS

## **ENVIRONMENTAL BANC & EXCHANGE, LLC**

**MANAGERS, BANKERS AND TRADERS OF  
ENVIRONMENTAL RIGHTS**

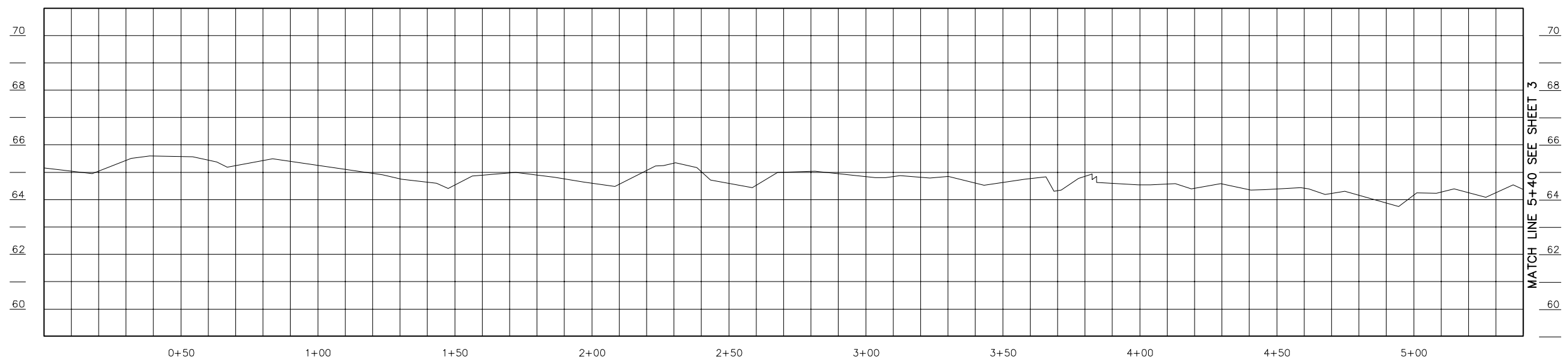
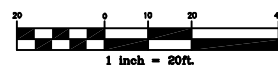
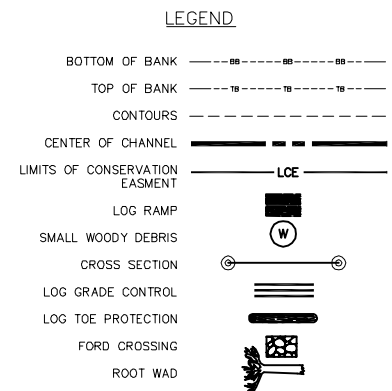
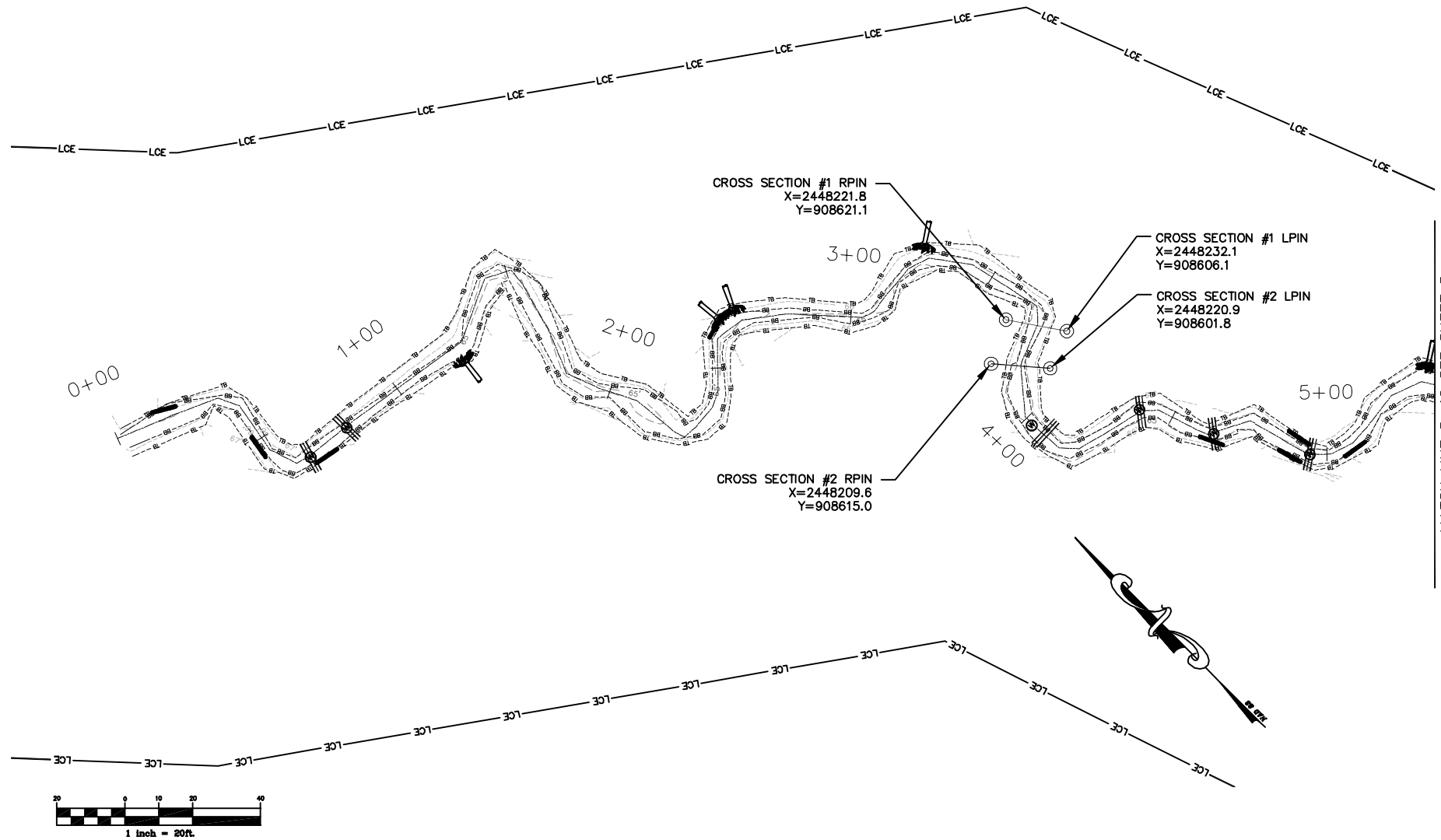
**2530 MERIDIAN PARKWAY SUITE 200  
DURHAM, NC 27713  
919-545-2929**



3101 JOHN HUMPHRIES WYND  
RALEIGH, NC 27612  
(919) 782-0495



© W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. ONLY COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. THESE COPIES.



REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER DPI	DRAWING SCALE 1" = 20'
DRAWN BY TMS	PROJECT DATE 06/20/06
APPROVED BY MSE	PROJECT NUMBER 6002000RA
FILE NAME as-built.dwg	PLOT DATE 11/07/08

**WK DICKSON**  
 community infrastructure consultants

3101 JOHN HUMPHRIES WYND  
 RALEIGH, NC 27612  
 (919) 782-0495

Office Locations:  
 North Carolina  
 South Carolina  
 Georgia  
 Florida

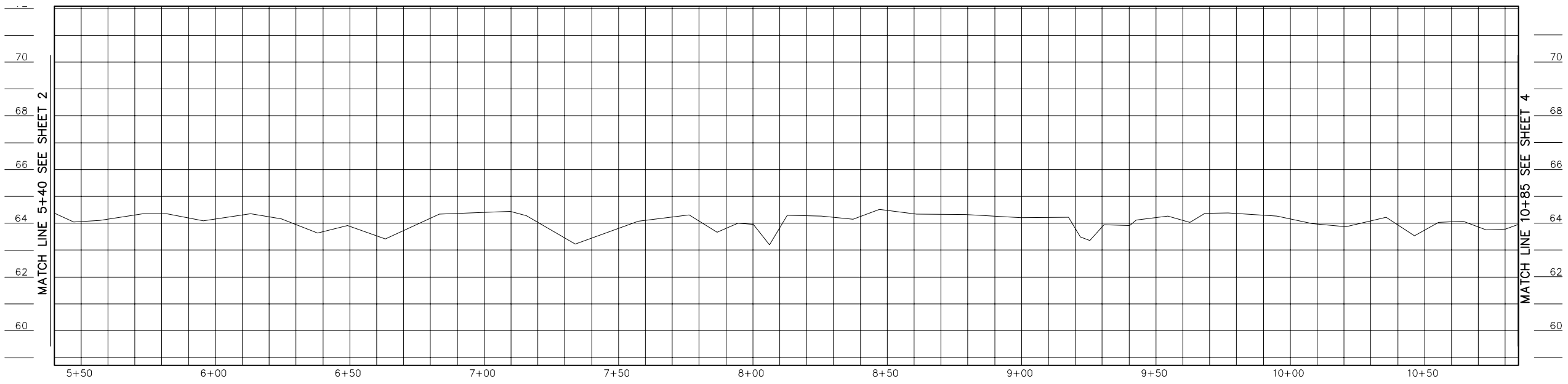
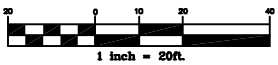
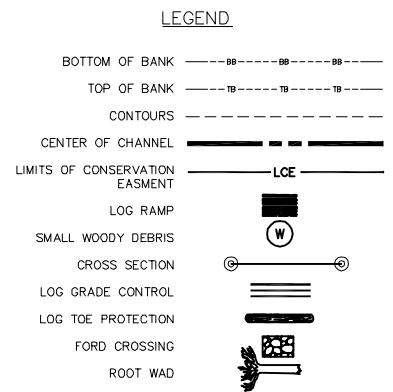
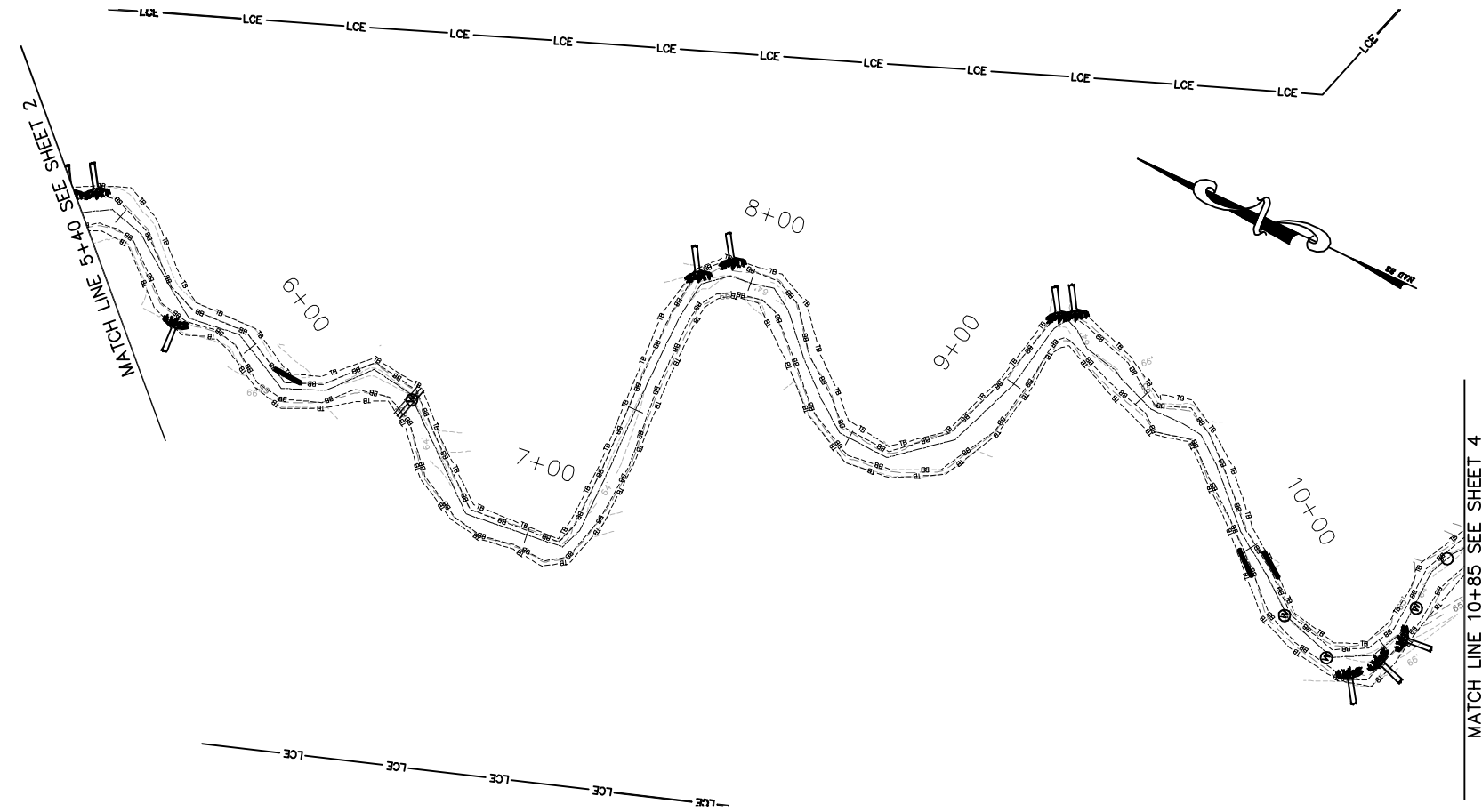
RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	



ENVIRONMENTAL BANK & EXCHANGE, LLC  
 CONOCONNARA RESTORATION  
 HALIFAX COUNTY, NORTH CAROLINA

CONOCONNARA AS-BUILT PLANS  
 STA. 0+00 TO STA. 5+40

© W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. DRAWINGS FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. THIS COPIE.



Horizontal Scale: 1 inch = 20ft.  
Vertical Scale: 1 inch = 2ft.  
NOTE: Profile Alignment is Thalweg of As-Built Channel

REV. NO.	DESCRIPTION	DATE

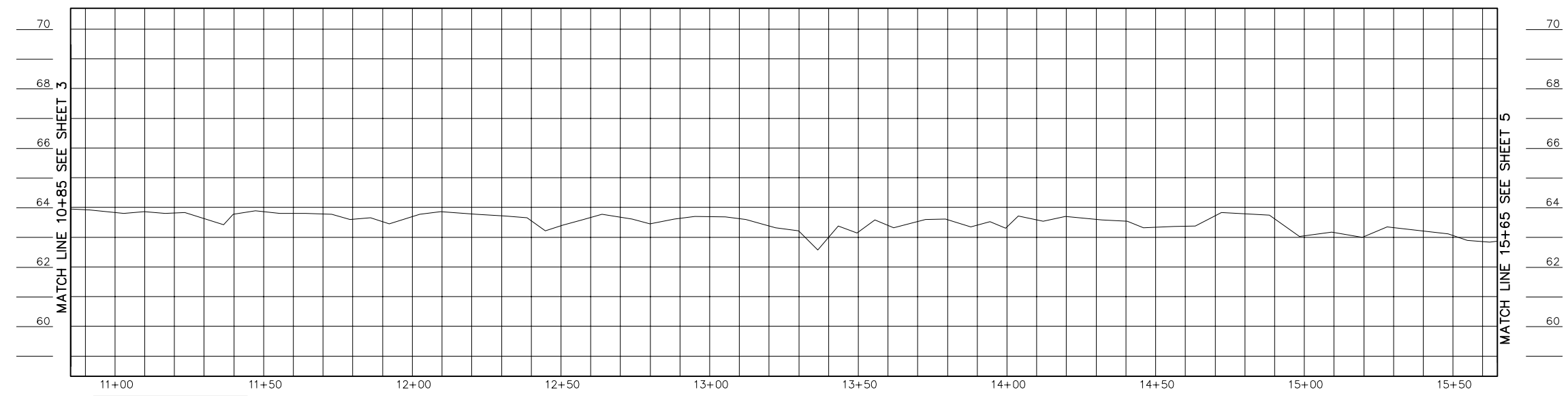
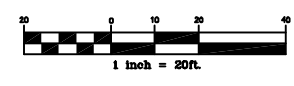
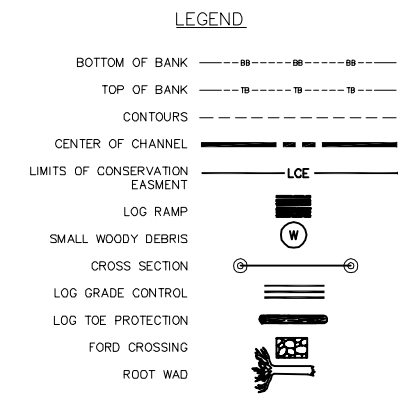
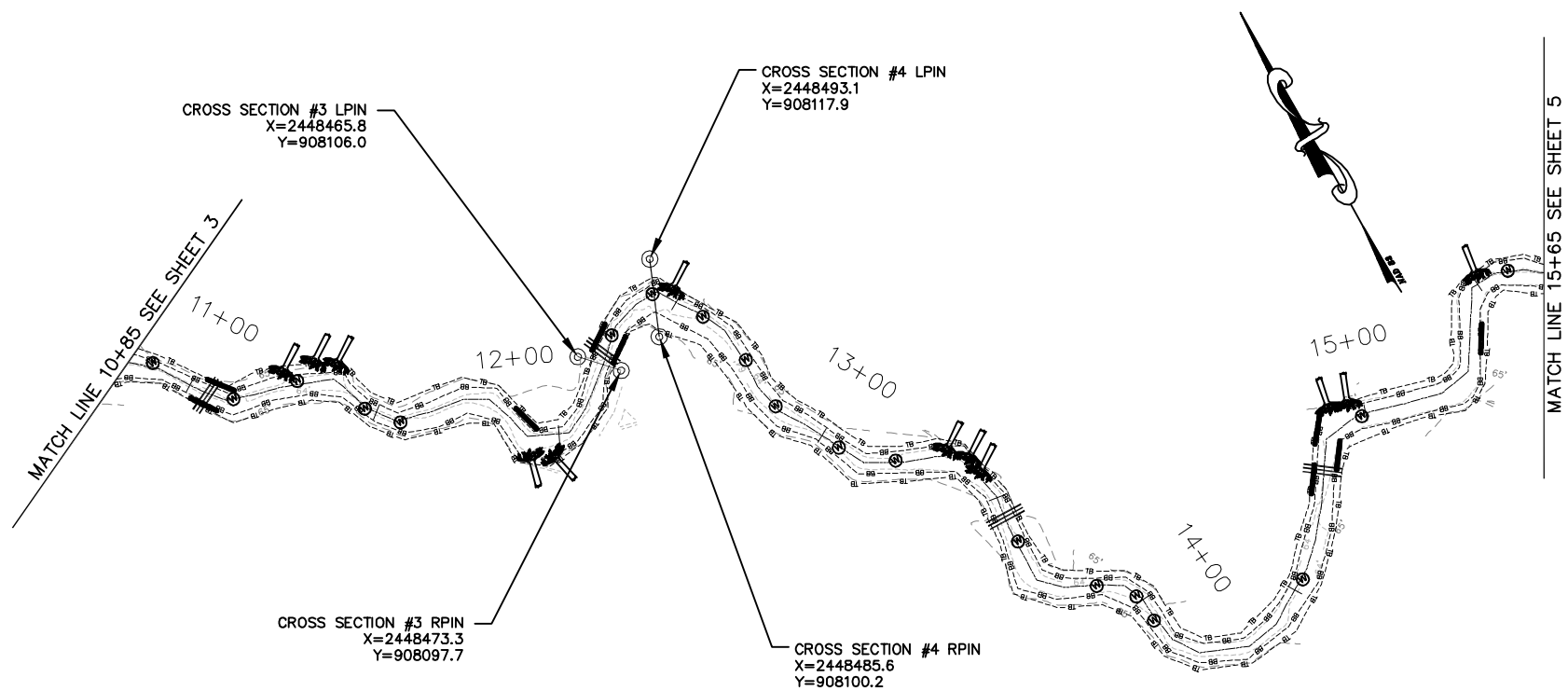
PROJECT MANAGER DPI	DRAWING SCALE 1" = 20'	3101 JOHN HUMPHRIES WYND RALEIGH, NC 27612 (919) 782-0495	RELEASED FOR APPROVALS	DATE
DRAWN BY TMS	PROJECT DATE 06/20/06	Office Locations: North Carolina South Carolina Georgia Florida	BIDDING	
APPROVED BY MSE	PROJECT NUMBER 600200ORA		CONSTRUCTION	
FILE NAME as-built.dwg	PLOT DATE 11/07/08	community infrastructure consultants	RECORD DWG.	



ENVIRONMENTAL BANK & EXCHANGE, LLC  
CONOCONNARA RESTORATION  
HALIFAX COUNTY, NORTH CAROLINA

CONOCONNARA AS-BUILT PLANS  
STA. 5+40 TO STA. 10+85

© W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. ONLY COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. THIS COPIES.



NOTE:  
 Horizontal Scale: 1 inch = 20ft.  
 Vertical Scale: 1 inch = 2ft.  
 Profile Alignment is Thalweg of As-Built Channel

I:\Projects\EBX\602000RA\CADD\Swamp Restoration\Conoconnara\_Swamp\_Restoration\dwg\As-Built

REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER  
 DPI  
 DRAWN BY  
 TRS  
 APPROVED BY  
 MSE  
 FILE NAME  
 as-built.dwg



3101 JOHN HUMPHRIES WYND  
 RALEIGH, NC 27612  
 (919) 782-0495  
 Office Locations:  
 North Carolina  
 South Carolina  
 Georgia  
 Florida

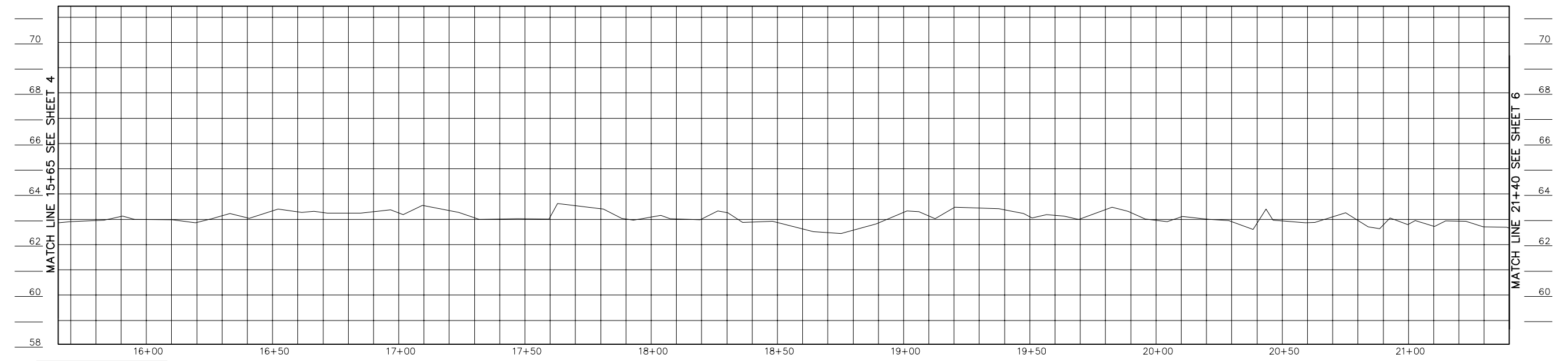
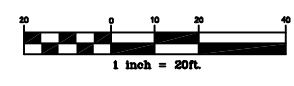
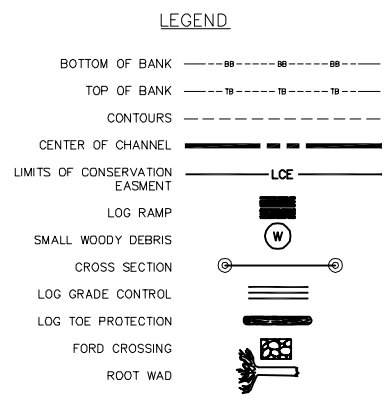
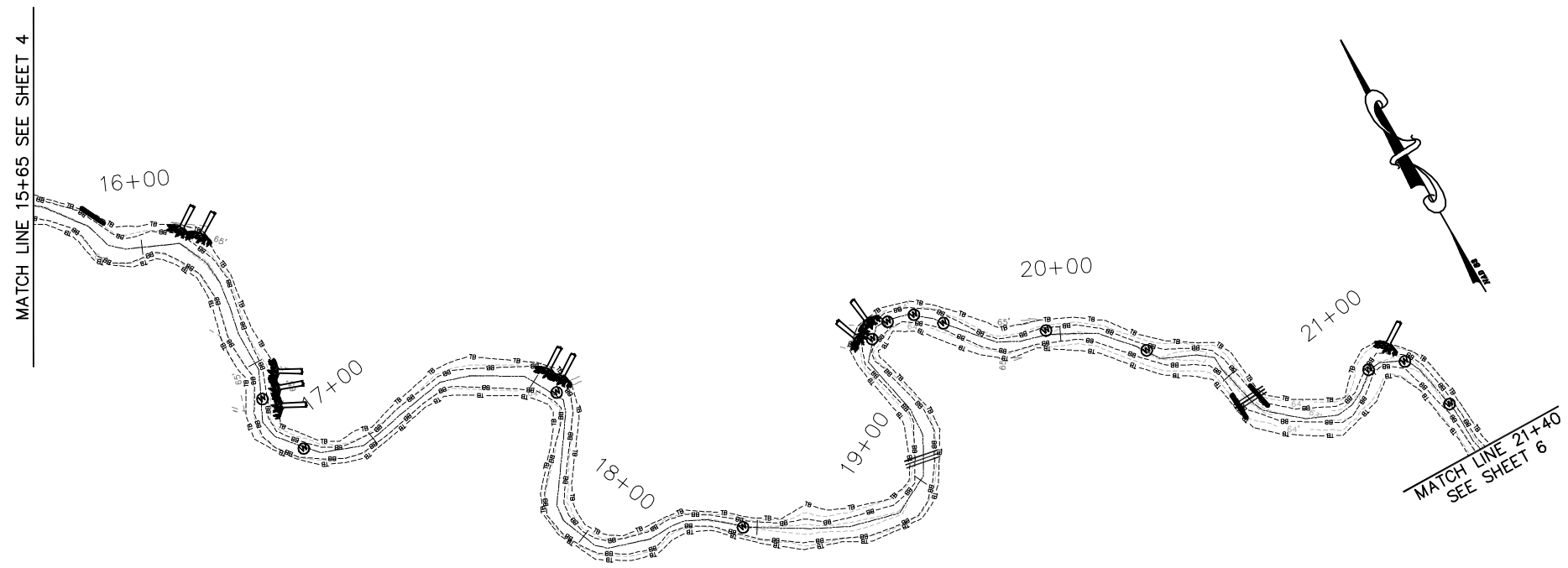
RELEASED FOR  
 APPROVALS  
 BIDDING  
 CONSTRUCTION  
 RECORD DWG.



ENVIRONMENTAL BANK & EXCHANGE, LLC  
 CONOCONNARA RESTORATION  
 HALIFAX COUNTY, NORTH CAROLINA

CONOCONNARA AS-BUILT PLANS  
 STA. 10+85 TO STA. 15+65

© W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. ONLY COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. THESE COPIES.



NOTE:  
 Horizontal Scale: 1 inch = 20ft.  
 Vertical Scale: 1 inch = 2ft.  
 Profile Alignment is Thalweg  
 of As-Built Channel

REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER DPI	DRAWING SCALE 1" = 20'
DRAWN BY TRS	PROJECT DATE 06/2006
APPROVED BY MSE	PROJECT NUMBER 6002000RA
FILE NAME as-built.dwg	PLOT DATE 11/07/08

3101 JOHN HUMPHRIES WYND  
RALEIGH, NC 27612  
(919) 782-0495

Office Locations:  
 North Carolina  
 South Carolina  
 Georgia  
 Florida

RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	

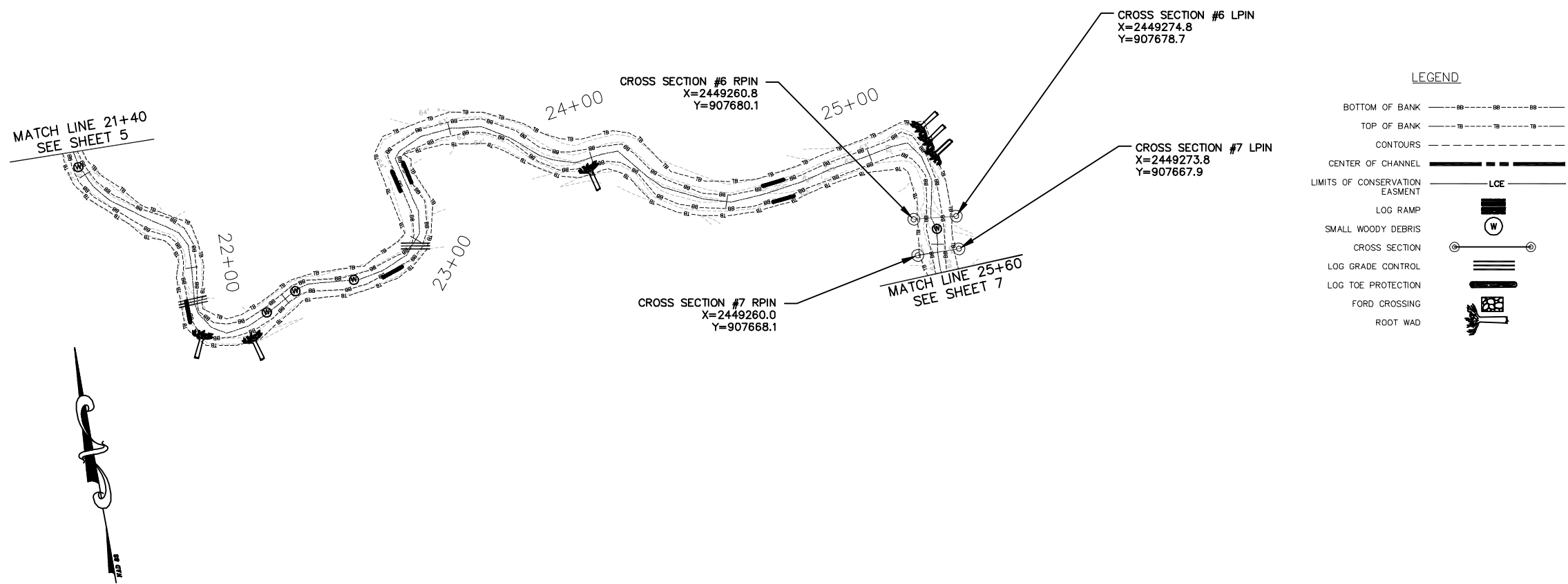


ENVIRONMENTAL BANC & EXCHANGE, LLC  
 CONOCONNARA RESTORATION  
 HALIFAX COUNTY, NORTH CAROLINA

CONOCONNARA AS-BUILT PLANS  
 STA. 15+65 TO STA. 21+40

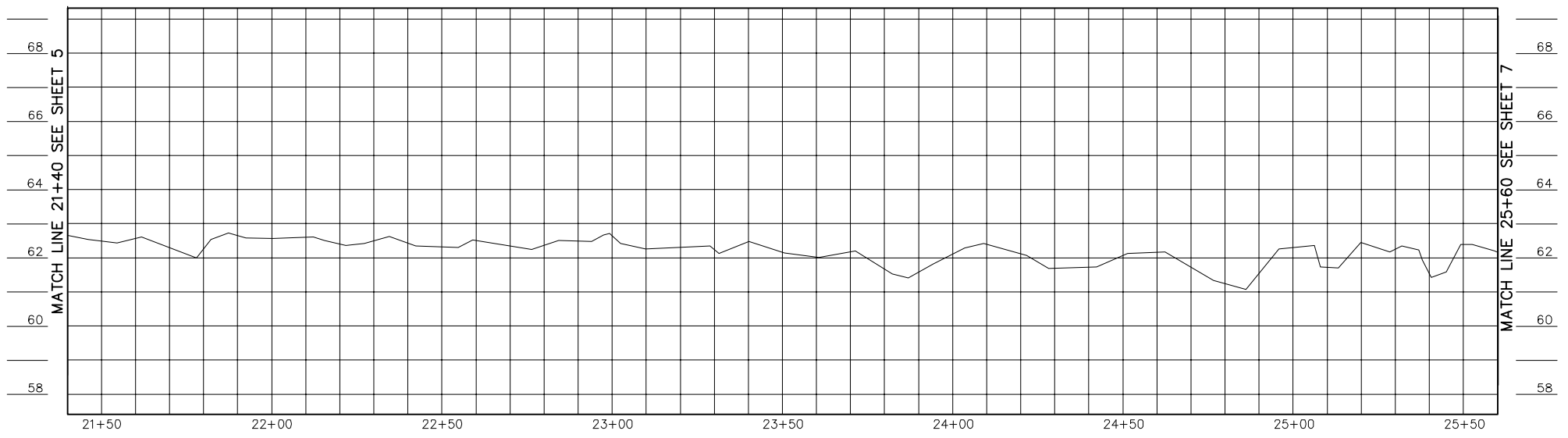
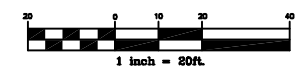


© W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. ANY COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. THIS COPIES.



**LEGEND**

- BOTTOM OF BANK
- TOP OF BANK
- CONTOURS
- CENTER OF CHANNEL
- LIMITS OF CONSERVATION EASEMENT
- LOG RAMP
- SMALL WOODY DEBRIS
- CROSS SECTION
- LOG GRADE CONTROL
- LOG TOE PROTECTION
- FORD CROSSING
- ROOT WAD



Horizontal Scale: 1 inch = 20ft.  
Vertical Scale: 1 inch = 2ft.

**NOTE:**  
Profile Alignment is Thalweg  
of As-Built Channel

REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER DPI	DRAWING SCALE 1" = 20'	3101 JOHN HUMPHRIES WYND RALEIGH, NC 27612 (919) 782-0495	RELEASED FOR APPROVALS	DATE
DRAWN BY TRIS	PROJECT DATE 06/2006	Office Locations: North Carolina South Carolina Georgia Florida	BIDDING	
APPROVED BY MSE	PROJECT NUMBER 600200ORA		CONSTRUCTION	
FILE NAME as-built.dwg	PLOT DATE 11/07/08	community infrastructure consultants	RECORD DWG.	

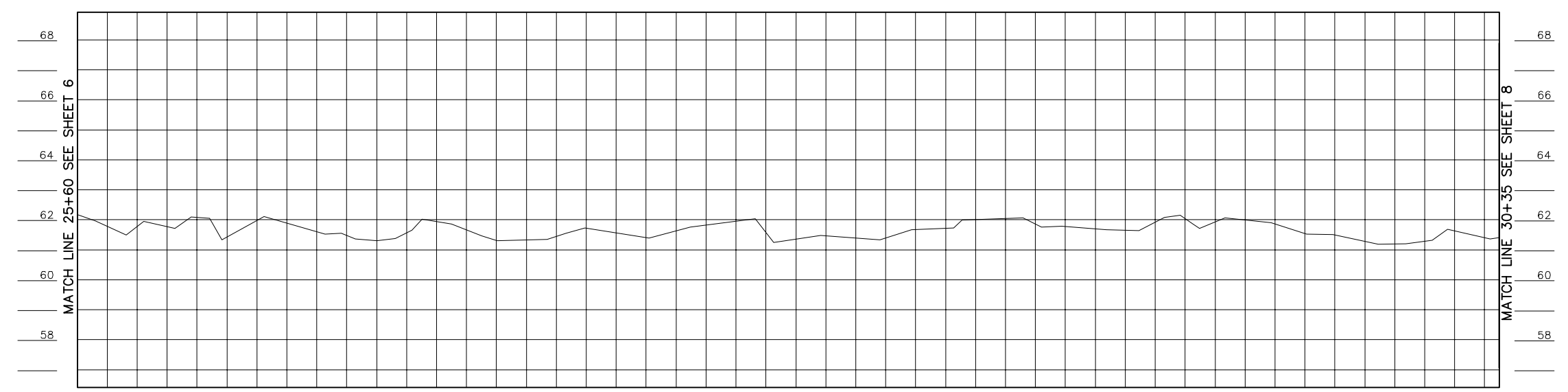
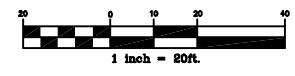
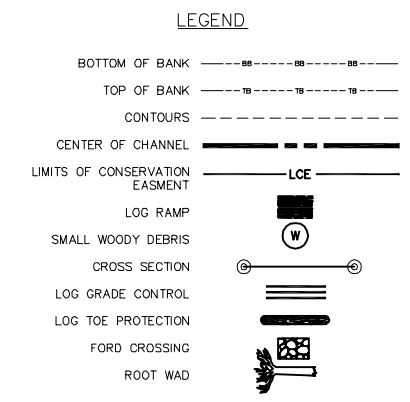
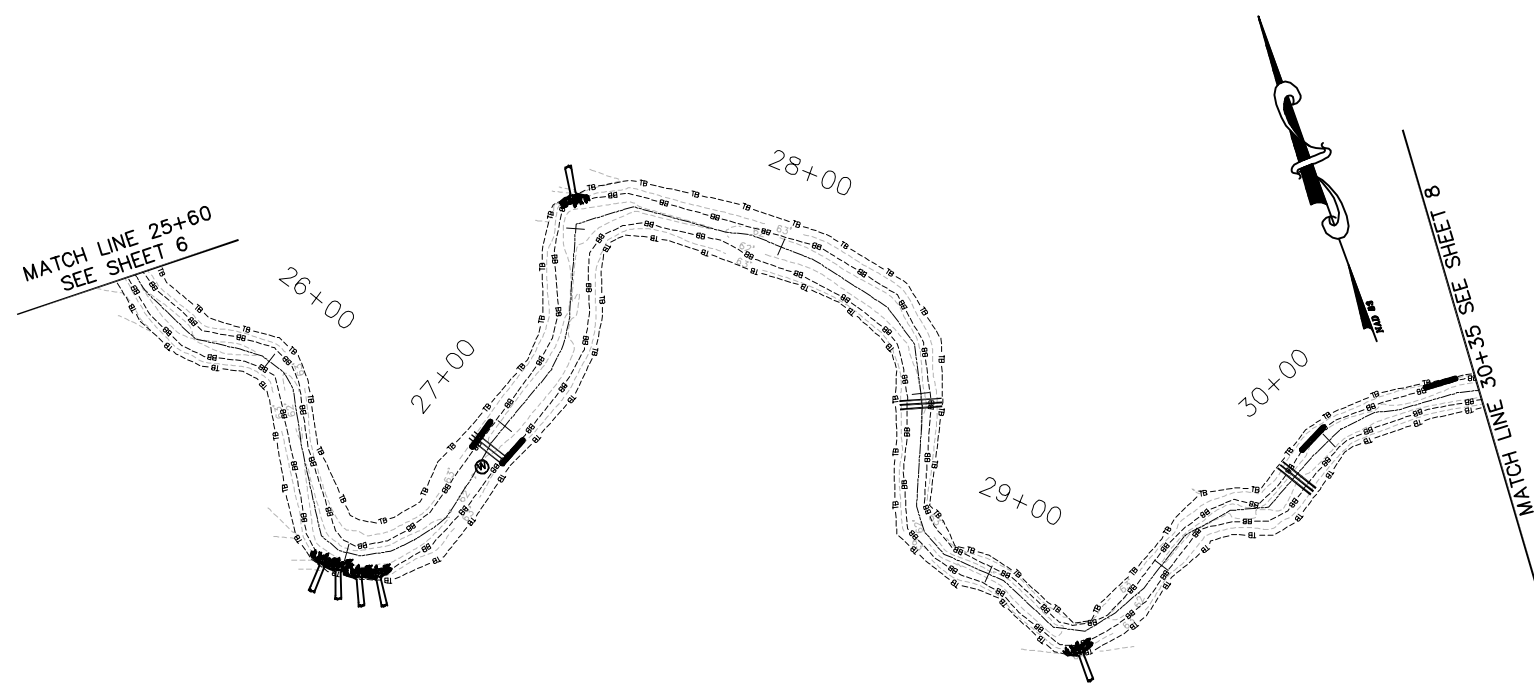


ENVIRONMENTAL BANK & EXCHANGE, LLC  
CONOCONNARA RESTORATION  
HALIFAX COUNTY, NORTH CAROLINA

CONOCONNARA AS-BUILT PLANS  
STA. 21+40 TO STA. 25+60

I:\Projects\EBX\600200ORA\CADD\Swamp Restoration\Conoconnara Swamp Restoration\dwg\As-Built

© W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. DRAWINGS TAKEN FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. THIS COPIES.



Horizontal Scale: 1 inch = 20ft.  
Vertical Scale: 1 inch = 2ft.

**NOTE:**  
Profile Alignment is Thalweg  
of As-Built Channel

I:\Projects\EBX\600200RA\CADD\Swamp Restoration\Conoconnara Swamp Restoration\dwg\As-Built

REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER DPI	DRAWING SCALE 1" = 20'
DRAWN BY TMS	PROJECT DATE 06/20/06
APPROVED BY MSE	PROJECT NUMBER 600200RA
FILE NAME as-built.dwg	PLOT DATE 11/07/08

**WK DICKSON**  
community infrastructure consultants

3101 JOHN HUMPHRIES WYND  
RALEIGH, NC 27612  
(919) 782-0495

Office Locations:  
North Carolina  
South Carolina  
Georgia  
Florida

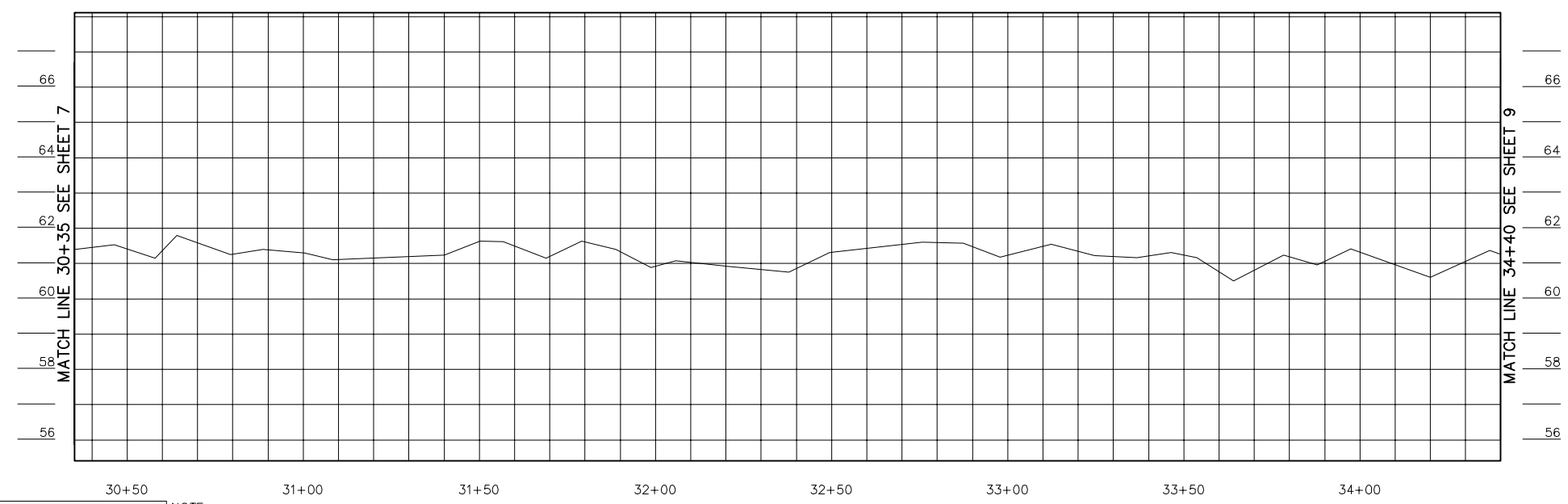
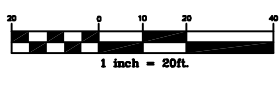
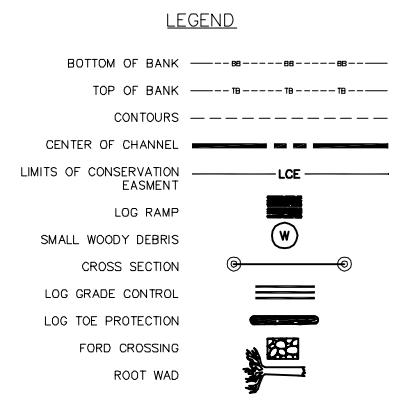
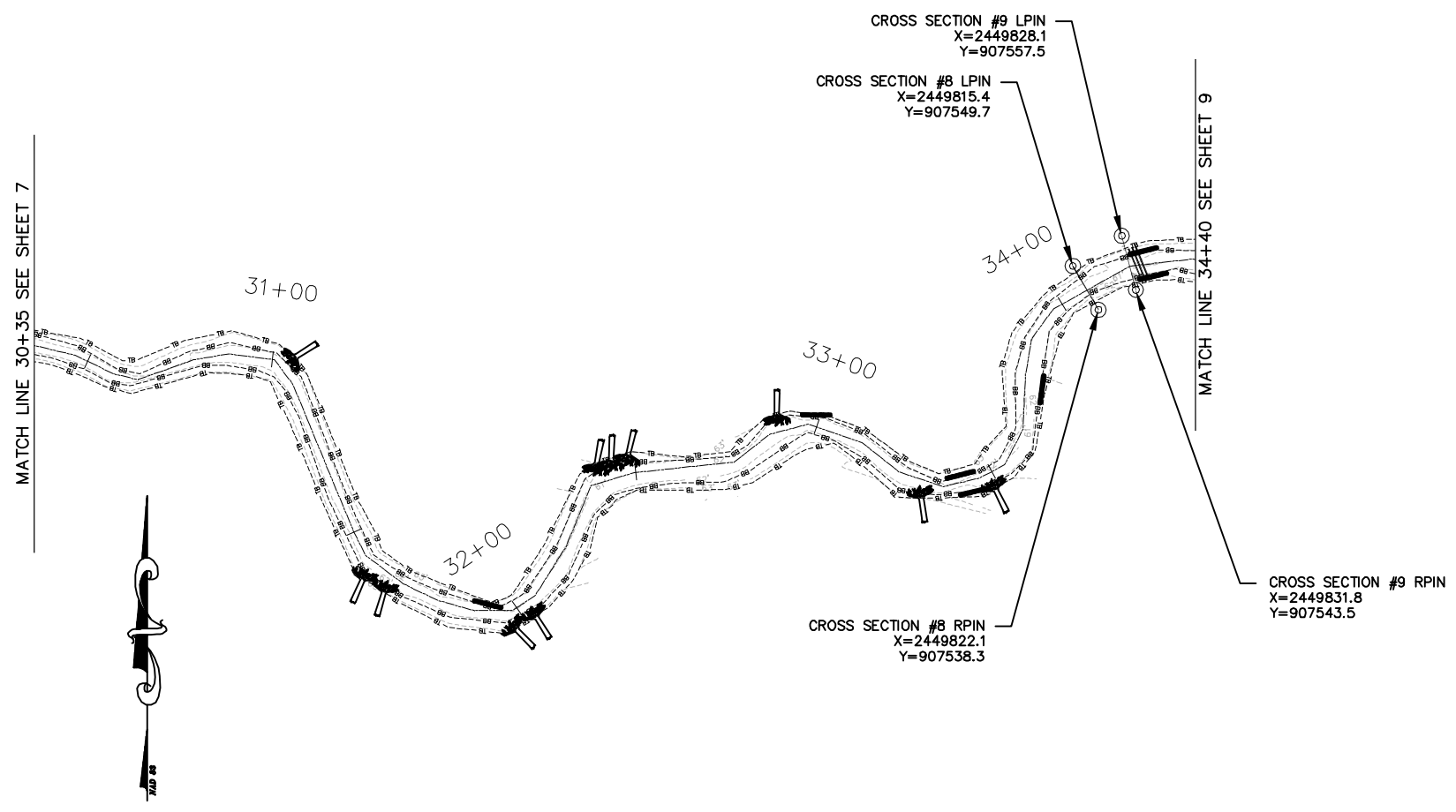
RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	



ENVIRONMENTAL BANK & EXCHANGE, LLC  
CONOCONNARA RESTORATION  
HALIFAX COUNTY, NORTH CAROLINA

CONOCONNARA AS-BUILT PLANS  
STA. 25+60 TO STA. 30+35

© W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. ONLY COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. THESE COPIES.



Horizontal Scale: 1 inch = 20ft.  
Vertical Scale: 1 inch = 2ft.

**NOTE:**  
Profile Alignment is Thalweg  
of As-Built Channel

REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER  
DPI  
DRAWN BY  
JRS  
APPROVED BY  
MSE  
FILE NAME  
as-built.dwg

DRIVING SCALE  
1" = 20'  
PROJECT DATE  
06/20/06  
PROJECT NUMBER  
6002000RA  
PLOT DATE  
11/07/08

**W.K. DICKSON**  
community infrastructure consultants

3101 JOHN HUMPHRIES WYND  
RALEIGH, NC 27612  
(919) 782-0495

Office Locations:  
North Carolina  
South Carolina  
Georgia  
Florida

RELEASED FOR  
APPROVALS  
BIDDING  
CONSTRUCTION  
RECORD DWG.

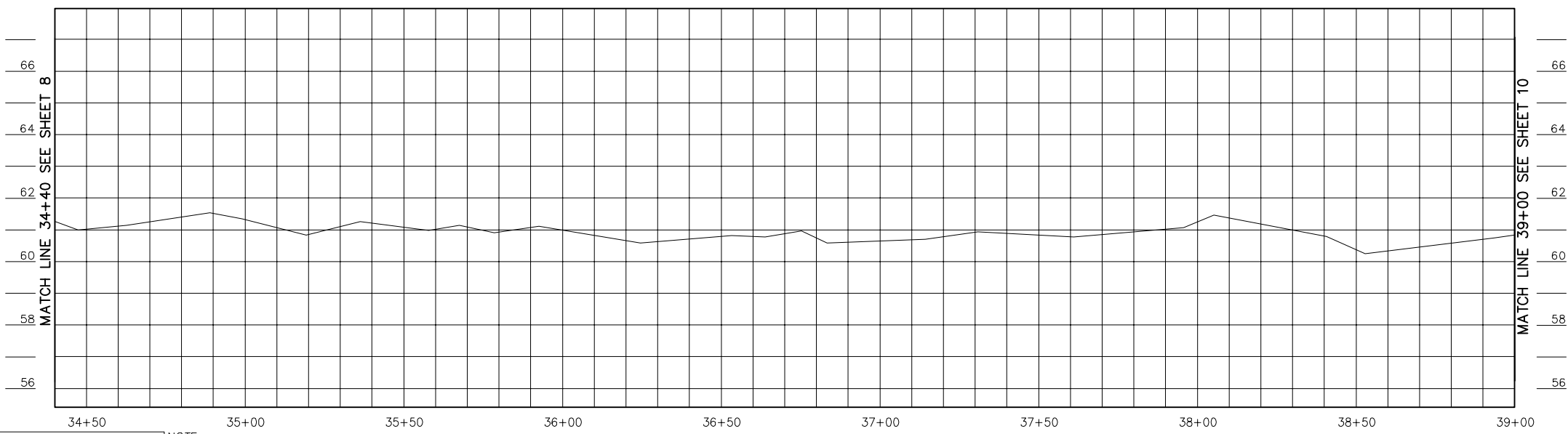
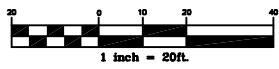
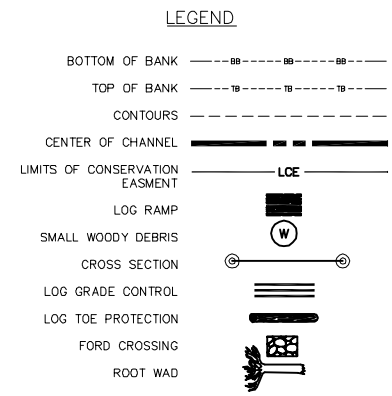
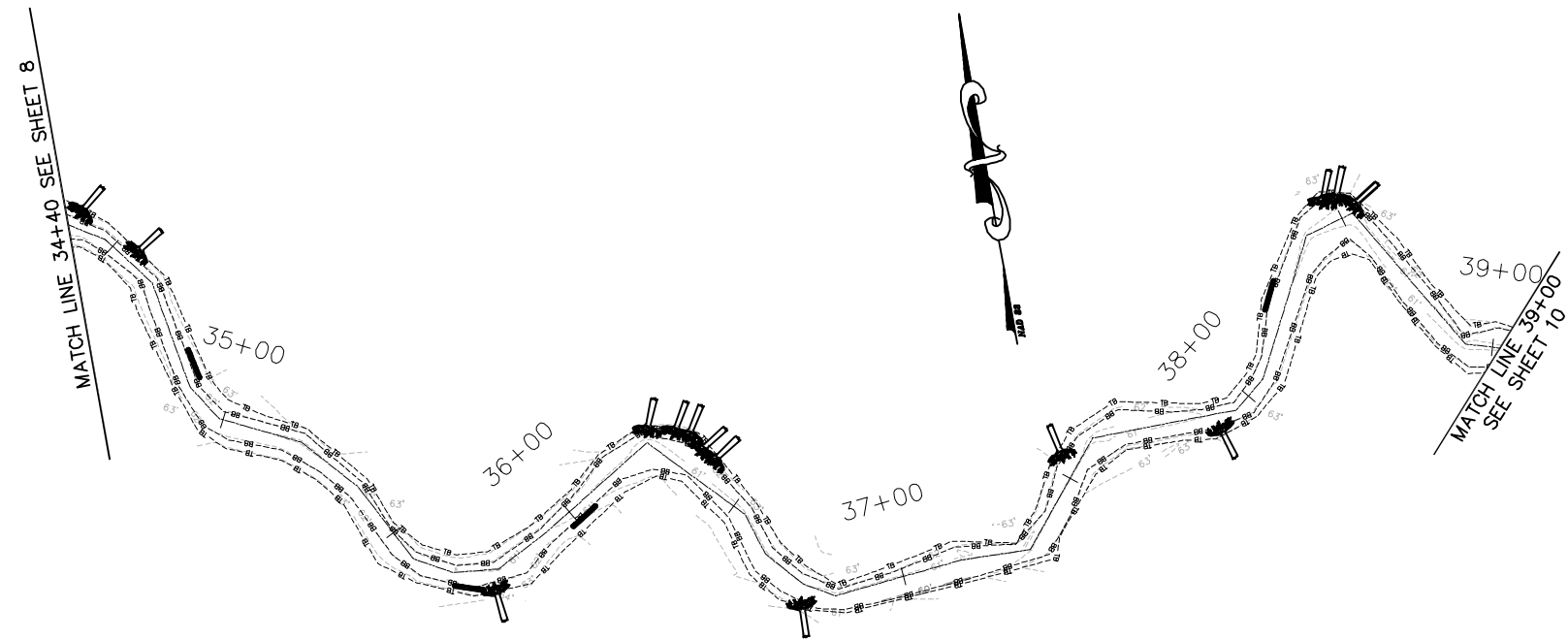
DATE



ENVIRONMENTAL BANK & EXCHANGE, LLC  
CONOCONNARA RESTORATION  
HALIFAX COUNTY, NORTH CAROLINA

CONOCONNARA AS-BUILT PLANS  
STA. 30+35 TO STA. 34+40

© W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. ONLY COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. THIS COPIES.



Horizontal Scale: 1 inch = 20ft.  
Vertical Scale: 1 inch = 2ft.

**NOTE:**  
Profile Alignment is Thalweg  
of As-Built Channel

I:\Projects\EBX\600200RA\CADD\Swamp\_Restoration\Conoconnara\_Swamp\_Restoration.dwg\As-Built

REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER	DRIVING SCALE
DPI	1" = 20'
DRAWN BY	PROJECT DATE
TJS	06/2006
APPROVED BY	PROJECT NUMBER
MSE	600200RA
FILE NAME	PLOT DATE
as-built.dwg	11/07/08

3101 JOHN HUMPHRIES WYND  
RALEIGH, NC 27612  
(919) 782-0495

Office Locations:  
North Carolina  
South Carolina  
Georgia  
Florida

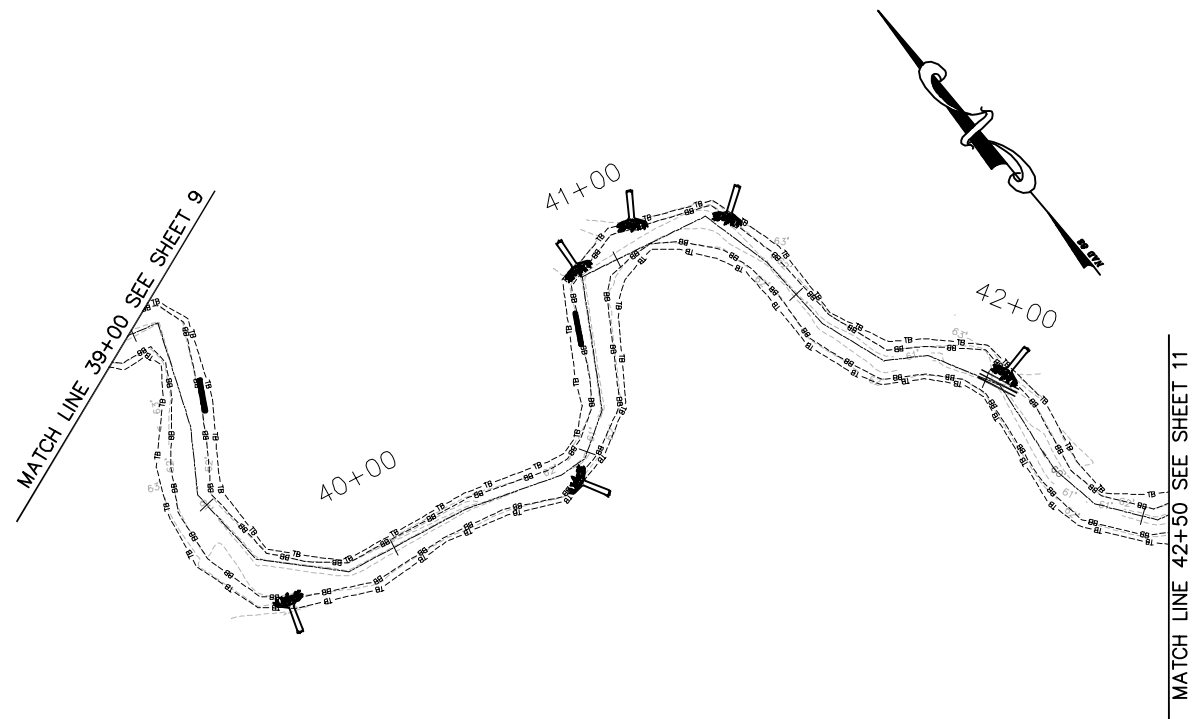
RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	



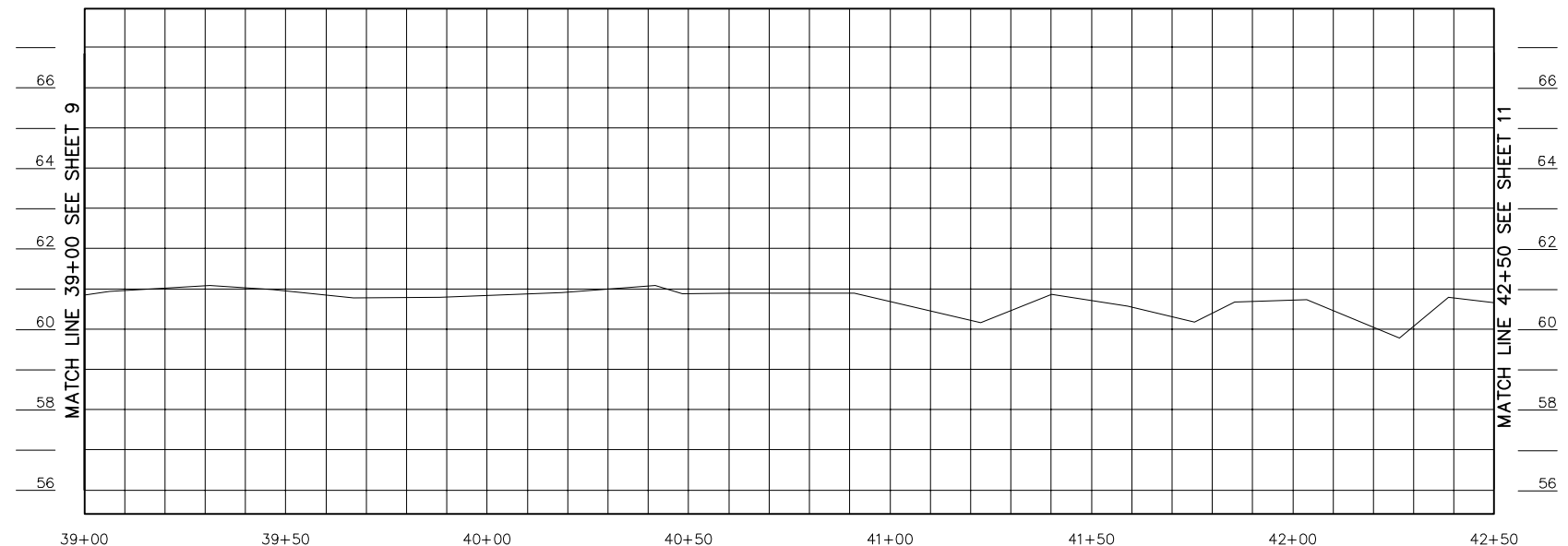
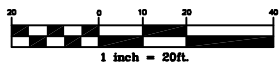
ENVIRONMENTAL BANK & EXCHANGE, LLC  
CONOCONNARA RESTORATION  
HALIFAX COUNTY, NORTH CAROLINA

CONOCONNARA AS-BUILT PLANS  
STA. 34+40 TO STA. 39+00

© W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. ONLY COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. THESE COPIES.



- LEGEND**
- BOTTOM OF BANK ---●●●●●●---
  - TOP OF BANK ---▬▬▬▬---
  - CONTOURS - - - - -
  - CENTER OF CHANNEL ————
  - LIMITS OF CONSERVATION EASEMENT ———— LCE ————
  - LOG RAMP [Symbol]
  - SMALL WOODY DEBRIS (W) [Symbol]
  - CROSS SECTION [Symbol]
  - LOG GRADE CONTROL [Symbol]
  - LOG TOE PROTECTION [Symbol]
  - FORD CROSSING [Symbol]
  - ROOT WAD [Symbol]



Horizontal Scale: 1 inch = 20ft.  
Vertical Scale: 1 inch = 2ft.

**NOTE:**  
Profile Alignment is Thalweg  
of As-Built Channel

I:\Projects\EBX\600200RA\CADD\Swamp Restoration\Conoconnara Swamp Restoration\dwg\As-Built

REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER DPI	DRAWING SCALE 1" = 20'
DRAWN BY TMS	PROJECT DATE 06/20/06
APPROVED BY MSE	PROJECT NUMBER 600200RA
FILE NAME as-built.dwg	PLOT DATE 11/07/06

3101 JOHN HUMPHRIES WYND  
RALEIGH, NC 27612  
(919) 782-0495

Office Locations:  
North Carolina  
South Carolina  
Georgia  
Florida

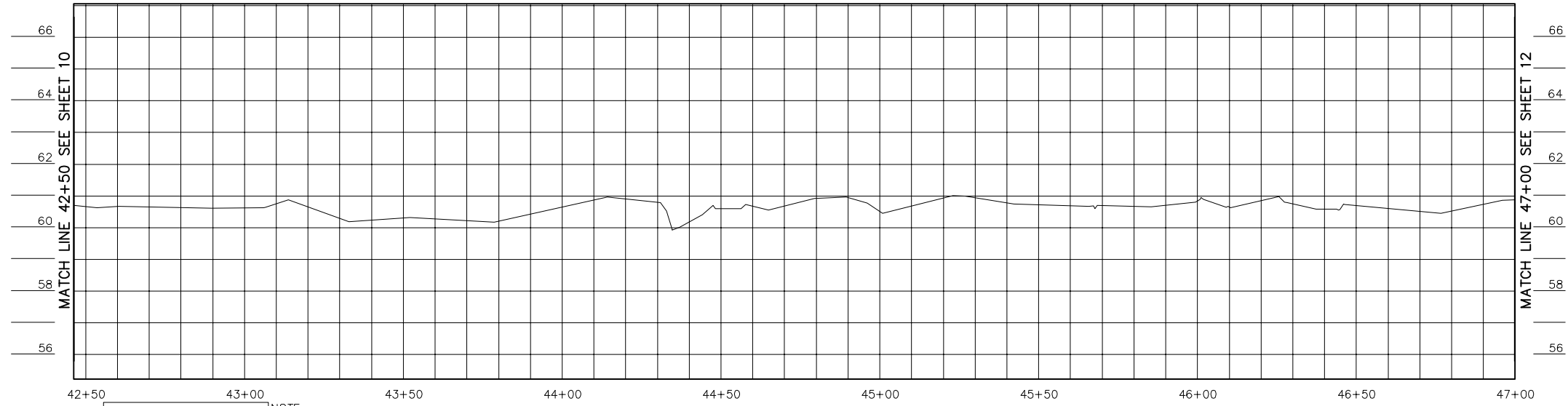
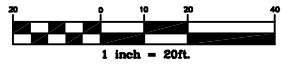
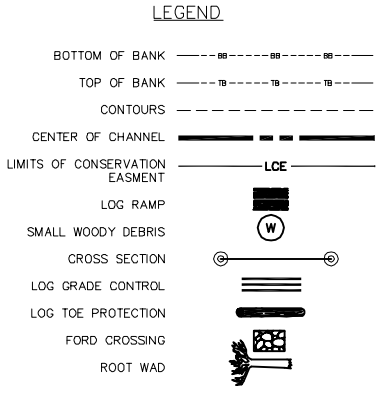
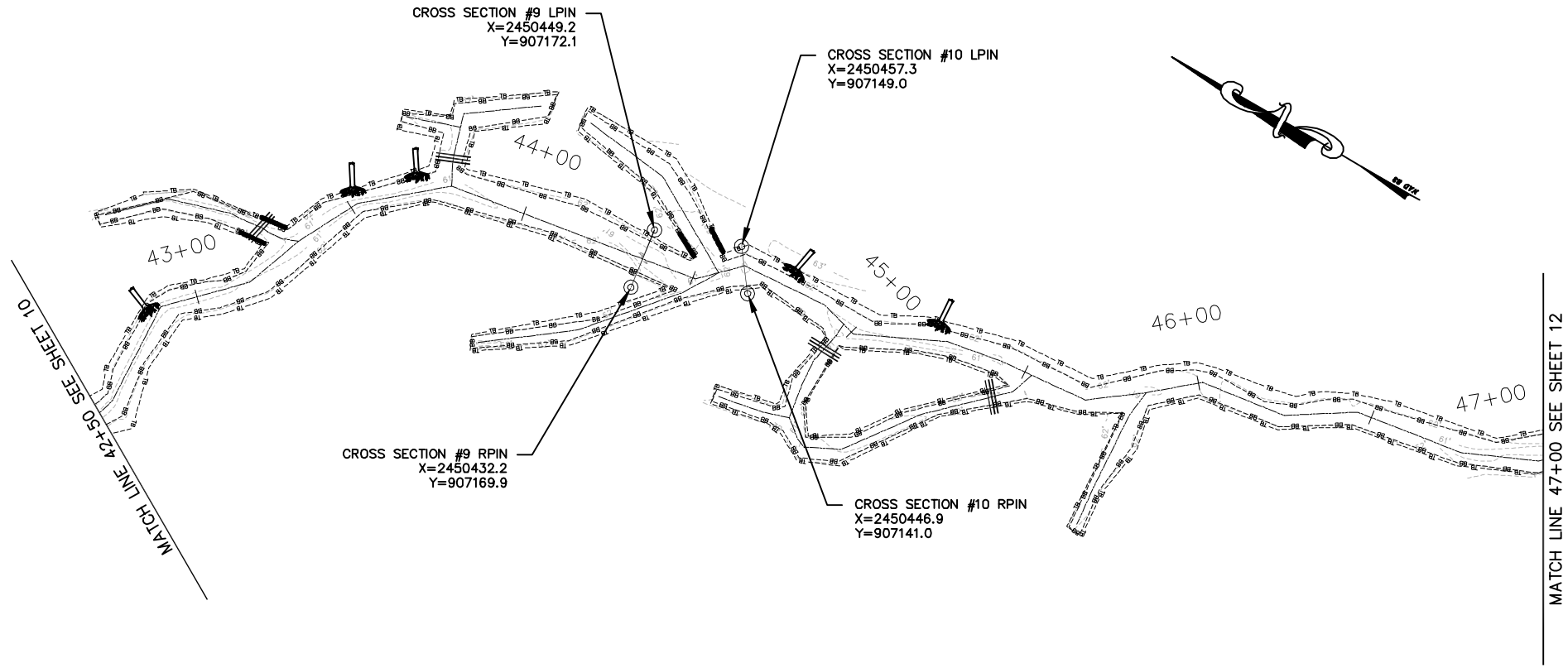
RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	



ENVIRONMENTAL BANK & EXCHANGE, LLC  
CONOCONNARA RESTORATION  
HALIFAX COUNTY, NORTH CAROLINA

CONOCONNARA AS-BUILT PLANS  
STA. 39+00 TO STA. 42+50

© W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. ONLY COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. THESE COPIES.



Horizontal Scale: 1 inch = 20ft.  
Vertical Scale: 1 inch = 2ft.

**NOTE:**  
Profile Alignment is Thalweg  
of As-Built Channel

REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER DPI	DRAWING SCALE 1" = 20'
DRAWN BY TRS	PROJECT DATE 06/20/06
APPROVED BY MSE	PROJECT NUMBER 600200ORA
FILE NAME as-built.dwg	PLOT DATE 11/07/08

**WK DICKSON**  
community infrastructure consultants

3101 JOHN HUMPHRIES WYND  
RALEIGH, NC 27612  
(919) 782-0495

Office Locations:  
North Carolina  
South Carolina  
Georgia  
Florida

RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	

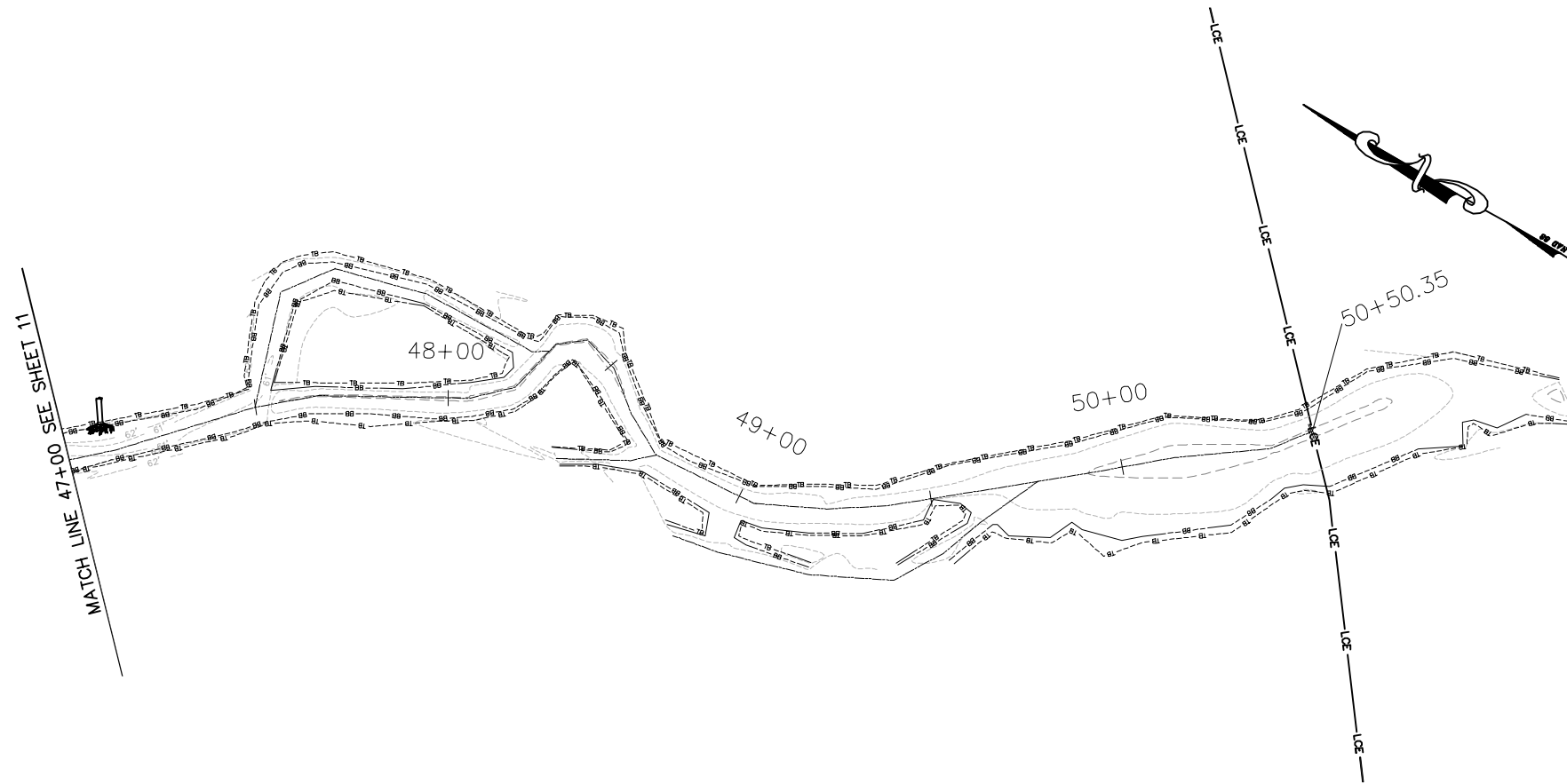
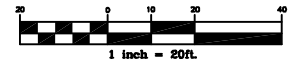


ENVIRONMENTAL BANK & EXCHANGE, LLC  
CONOCONNARA RESTORATION  
HALIFAX COUNTY, NORTH CAROLINA

CONOCONNARA AS-BUILT PLANS  
STA. 42+50 TO STA. 47+00

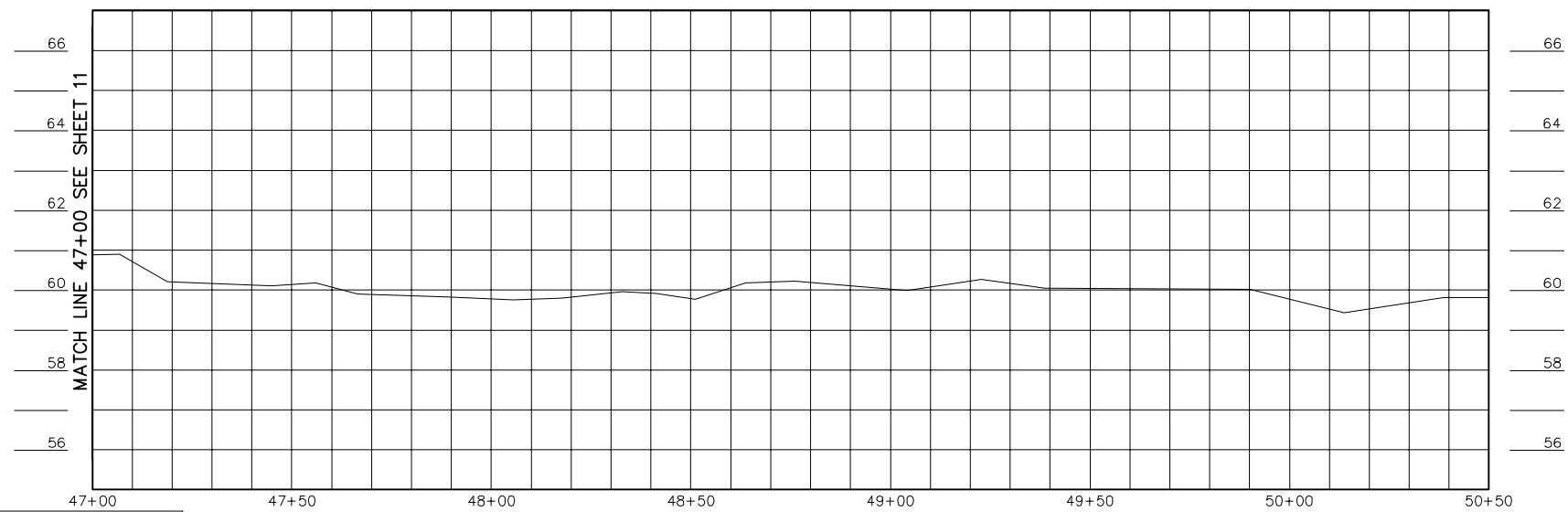
I:\Projects\EBX\600200ORA\CADD\Swamp Restoration\Conoconnara Swamp Restoration\dwg\As-Built

© W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF W.K. DICKSON & CO., INC. IS PROHIBITED. ONLY COPIES FROM THE ORIGINAL OF THIS DOCUMENT MARKED WITH AN ORIGINAL SIGNATURE AND SEAL SHALL BE CONSIDERED TO BE VALID. THIS COPIES.



**LEGEND**

BOTTOM OF BANK	---□---
TOP OF BANK	---△---
CONTOURS	--- ---
CENTER OF CHANNEL	—————
LIMITS OF CONSERVATION EASEMENT	————— LCE
LOG RAMP	■
SMALL WOODY DEBRIS	⊙ W
CROSS SECTION	⊙ — ⊙
LOG GRADE CONTROL	
LOG TOE PROTECTION	—
FORD CROSSING	⊞
ROOT WAD	⊞



Horizontal Scale: 1 inch = 20ft.  
Vertical Scale: 1 inch = 2ft.

**NOTE:**  
Profile Alignment is Thalweg  
of As-Built Channel

REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER	DPI
DRAWN BY	TRS
APPROVED BY	MSE
FILE NAME	as-built.dwg
DRAWING SCALE	1" = 20'
PROJECT DATE	06/2006
PROJECT NUMBER	600200RA
PLOT DATE	11/07/08

**WK DICKSON**  
community infrastructure consultants

3101 JOHN HUMPHRIES WYND  
RALEIGH, NC 27612  
(919) 782-0495

Office Locations:  
North Carolina  
South Carolina  
Georgia  
Florida

RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	



ENVIRONMENTAL BANK & EXCHANGE, LLC  
CONOCONNARA RESTORATION  
HALIFAX COUNTY, NORTH CAROLINA

CONOCONNARA AS-BUILT PLANS  
STA. 47+00 TO STA. 50+50.35

COPYRIGHT © W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT OR PORTIONS THEREOF IN ANY MANNER WITHOUT WRITTEN CONSENT OF W.K. DICKSON & CO., INC. IS STRICTLY PROHIBITED. THIS DOCUMENT AND ANY COPIES THEREOF SHALL BE CONSIDERED VOID WITHOUT THIS ORIGINAL SIGNATURE AND SEAL.

**PLANTING PLAN**

Zone 1 (saturated/undated)		Quantity
Willow oak ( <i>Quercus phellos</i> )	2040	2040
Water oak ( <i>Quercus nigra</i> )	3920	3920
Sycamore ( <i>Platanus occidentalis</i> )	4200	4200
Green Ash ( <i>Fraxinus pennsylvanica</i> )	4200	4200
Laurel oak ( <i>Quercus laurifolia</i> )	800	800
Swamp blackgum ( <i>Nyssa biflora</i> )	4240	4240
Musclewood ( <i>Carpinus caroliniana</i> )	3000	3000
Water tupelo ( <i>Nyssa aquatica</i> )	4175	4175
Bald cypress ( <i>Taxodium distichum</i> )	4220	4220
Swamp chestnut oak ( <i>Quercus phellos</i> )	2000	2000

Zone 2 (saturated)		Quantity
Yellow poplar ( <i>Liriodendron tulipifera</i> )	3850	3850
American elm ( <i>Ulmus americana</i> )	3650	3650
Cherrybark oak ( <i>Quercus pagodaefolia</i> )	2800	2800
Pawpaw ( <i>Asimina triloba</i> )	1900	1900
Blackgum ( <i>Nyssa sylvatica</i> )	2100	2100
Willow oak ( <i>Quercus phellos</i> )	2140	2140
Water oak ( <i>Quercus nigra</i> )	1440	1440
River Birch ( <i>Betula nigra</i> )	2004	2004
Green Ash ( <i>Fraxinus pennsylvanica</i> )	1980	1980
Swamp chestnut oak ( <i>Quercus phellos</i> )	800	800

**UPSTREAM SINGLE THREAD CHANNEL**

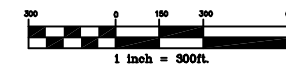
**DOWNSTREAM MULTIPLE THREAD CHANNEL**

**PLANTING PLAN**

ZONE 3 (Upstream Single-Thread Channel)		Quantity
Green Ash ( <i>Fraxinus pennsylvanica</i> )	1975	1975
Sycamore ( <i>Platanus occidentalis</i> )	1500	1500
Swamp blackgum ( <i>Nyssa biflora</i> )	510	510
Bald cypress ( <i>Taxodium distichum</i> )	555	555
Water oak ( <i>Quercus nigra</i> )	1184	1184
Willow oak ( <i>Quercus phellos</i> )	1520	1520
Overcup Oak ( <i>Quercus lyrata</i> )	1050	1050
River Birch ( <i>Betula nigra</i> )	950	950
Carolina Ash ( <i>Fraxinus caroliniana</i> )	1750	1750

**ZONE 4 (Downstream Multiple Thread Channel)**

	Quantity
Bald cypress ( <i>Taxodium distichum</i> )	325
Water tupelo ( <i>Nyssa aquatica</i> )	679
Overcup oak ( <i>Quercus lyrata</i> )	550
River Birch ( <i>Betula nigra</i> )	600
Water oak ( <i>Quercus nigra</i> )	156
Laurel oak ( <i>Quercus laurifolia</i> )	300
Swamp blackgum ( <i>Nyssa biflora</i> )	150
Carolina Ash ( <i>Fraxinus caroliniana</i> )	650



I:\Projects\EBX\600200RA\CADD\Swamp\_Restoration\Conocoannara\_Swamp\_Restoration.dwg\Wetland.dwg

REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER DPI	DRAWING SCALE 1" = 300'
DRAWN BY TRS	PROJECT DATE 06/2006
APPROVED BY ME	PROJECT NUMBER 600200RA
FILE NAME wetland.dwg	PLOT DATE 11/07/2008



3101 JOHN HUMPHRIES WYND  
RALEIGH, NC 27612  
(919) 782-0495

Office Locations:  
North Carolina  
South Carolina  
Georgia  
Florida

RELEASED FOR APPROVALS	DATE
BIDDING	
CONSTRUCTION	
RECORD DWG.	

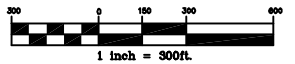
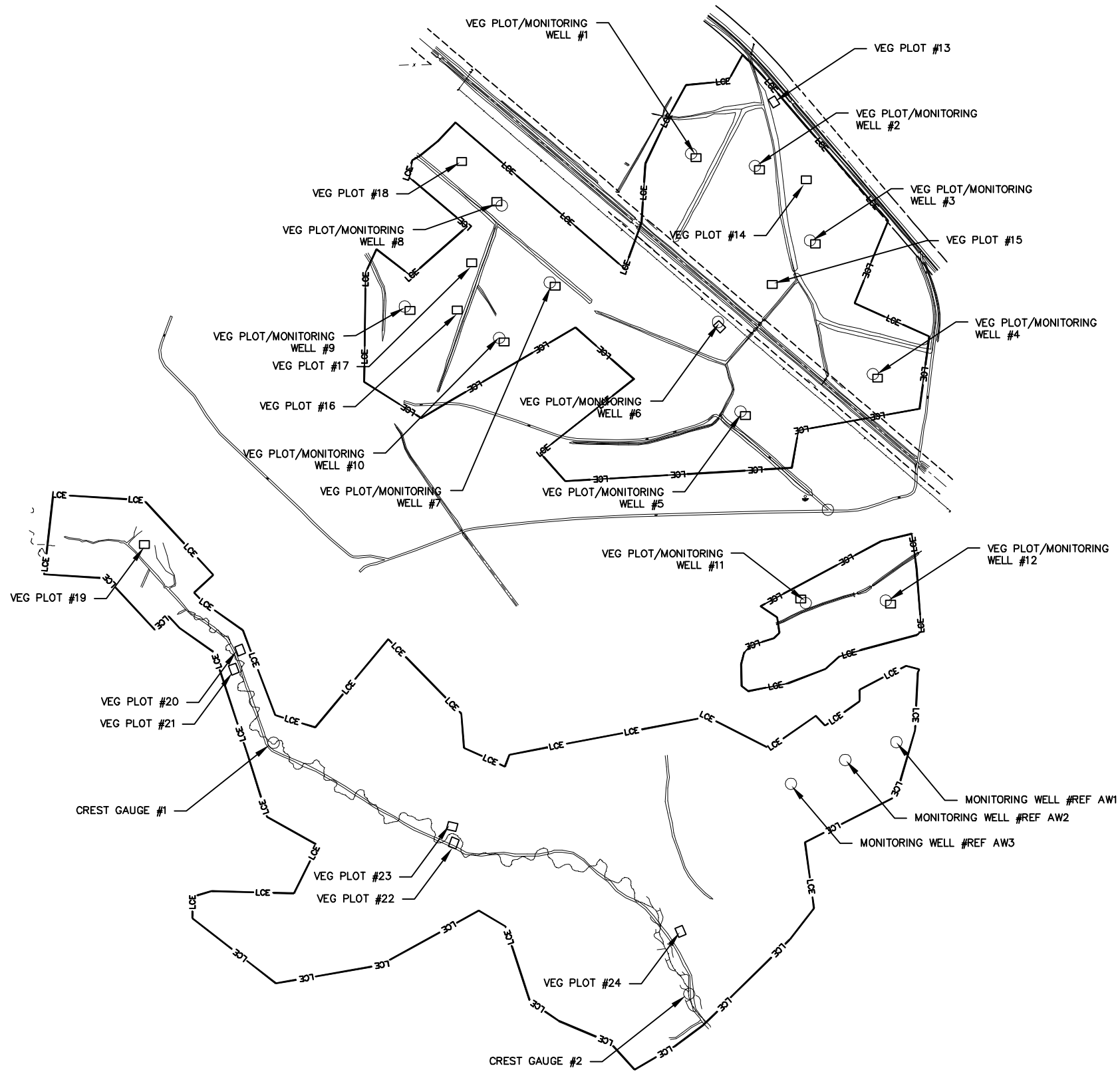


ENVIRONMENTAL BANC & EXCHANGE, LLC  
CONOCOANNARA RESTORATION  
HALIFAX COUNTY, NORTH CAROLINA

AS-BUILT  
PLANTING PLAN



COPYRIGHT © W.K. DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, IN WHOLE OR IN PART, WITHOUT WRITTEN CONSENT OF W.K. DICKSON & CO., INC. IS PROHIBITED. ANY UNAUTHORIZED REPRODUCTION OR USE OF THIS DOCUMENT, EITHER IN ORIGINAL FORM OR IN ANY ELECTRONIC FORM, SHALL BE CONSIDERED TO BE A VIOLATION OF THE COPYRIGHT AND SHALL BE PROSECUTED TO THE FULL EXTENT OF THE LAW.



I:\Projects\EBX\6002006A\CADD\Swamp Restoration\Conoconnara Swamp Restoration\dwg\Welland.dwg

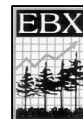
REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER DPI	DRAWING SCALE 1" = 300'
DRAWN BY TRS	PROJECT DATE 06/2006
APPROVED BY ME	PROJECT NUMBER 6002006A
FILE NAME welland.dwg	PLOT DATE 11/07/2008



3101 JOHN HUMPHRIES WYND  
 RALEIGH, NC 27612  
 (919) 782-0495  
 Office Locations:  
 North Carolina  
 South Carolina  
 Georgia  
 Florida

RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	

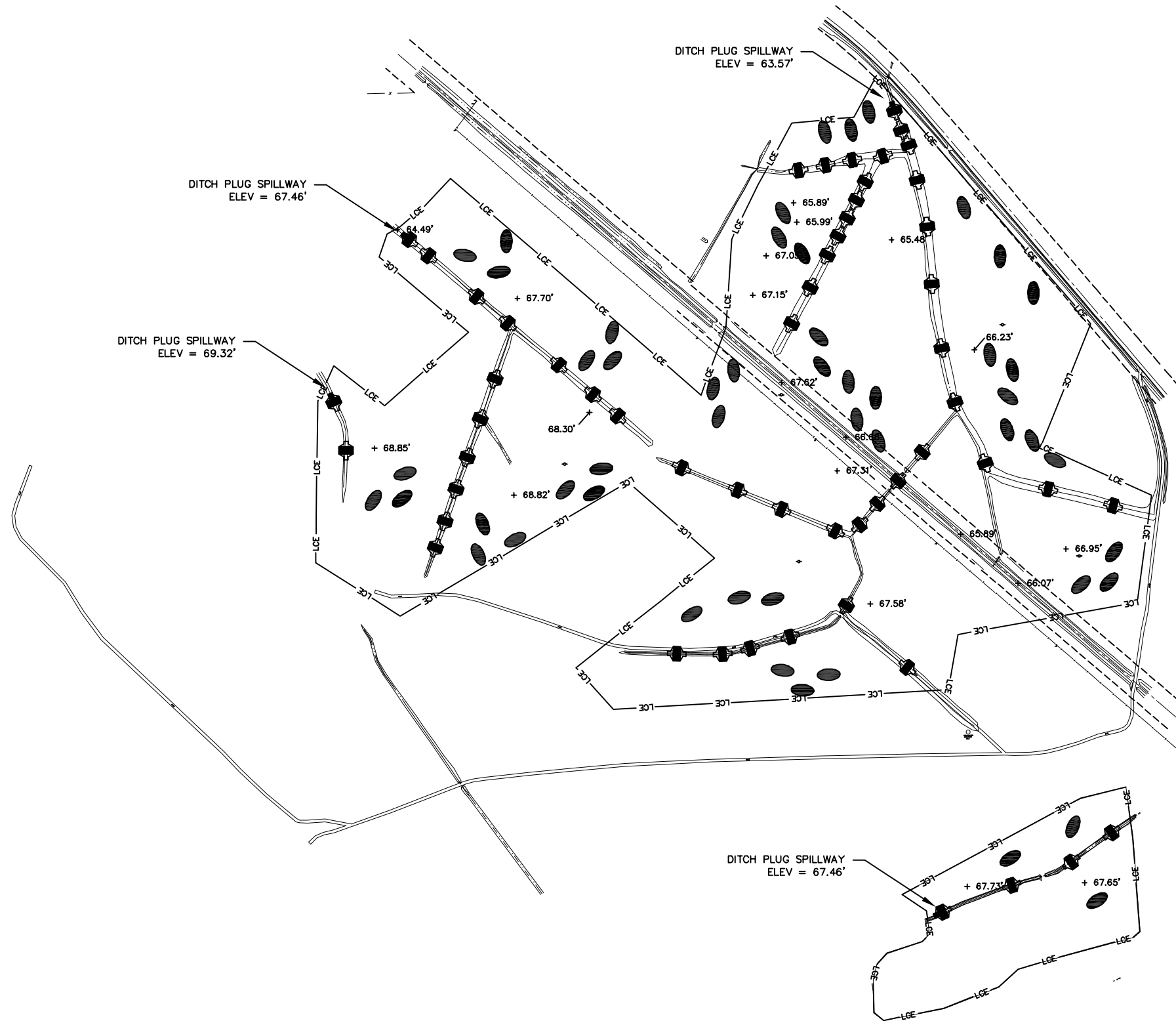


ENVIRONMENTAL BANC & EXCHANGE, LLC  
 CONOCONNARA RESTORATION  
 HALIFAX COUNTY, NORTH CAROLINA






WELL/VEG PLOT LOCATIONS

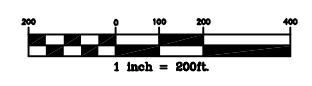
I:\Projects\EBX\6002006RA\CADD\Swamp\_Restoration\Conoconnara\_Swamp\_Restoration\dwg\Wetland.DWG

COPYRIGHT © WK DICKSON & CO., INC. ALL RIGHTS RESERVED. REPRODUCTION OR USE OF THE CONTENTS OF THIS DOCUMENT, IN WHOLE OR IN PART, WITHOUT WRITTEN CONSENT OF WK DICKSON & CO., INC. IS PROHIBITED. ANY UNAUTHORIZED REPRODUCTION OR USE OF THIS DOCUMENT, EITHER IN WHOLE OR IN PART, SHALL BE CONSIDERED TO BE A VIOLATION OF THE COPYRIGHT AND SHALL BE CONSIDERED TO BE A VIOLATION OF THE FEDERAL TRADEMARK AND TRADE DRESS ACT.



**LEGEND**

- CHANNEL PLUG 
- CHANNEL PLUG WITH SPILLWAY 
- WETLAND DEPRESSION 
- LIMITS OF CONSERVATION EASEMENT 
- PROPOSED SPOT ELEVATION **+ 66.50'**
- RAPTOR POLE 



REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER DPI	DRAWING SCALE 1" = 200'
DRAWN BY TRS	PROJECT DATE 06/2006
APPROVED BY ME	PROJECT NUMBER 6002006RA
FILE NAME wetland.dwg	PLT DATE 11/07/2008



3101 JOHN HUMPHRIES WYND RALEIGH, NC 27612 (919) 782-0495	RELEASED FOR APPROVALS	DATE
Office Locations: North Carolina South Carolina	BIDDING	
Georgia Florida	CONSTRUCTION	
	RECORD DWG.	



ENVIRONMENTAL BANC & EXCHANGE, LLC  
CONOCONNARA RESTORATION  
HALIFAX COUNTY, NORTH CAROLINA

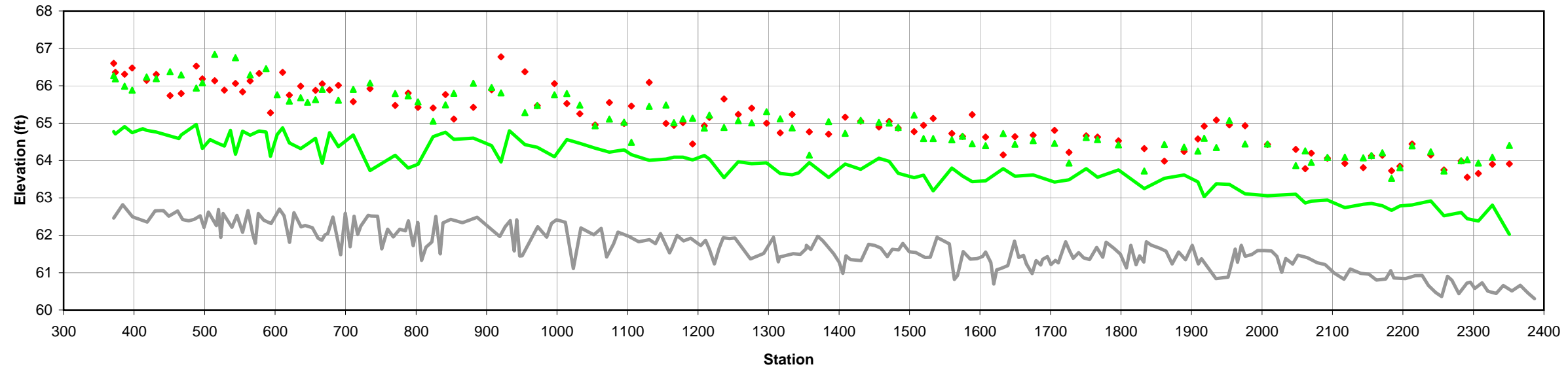
WETLAND AS-BUILT PLANS

# **APPENDIX B**

## **2008 Profile and Cross Section Data**

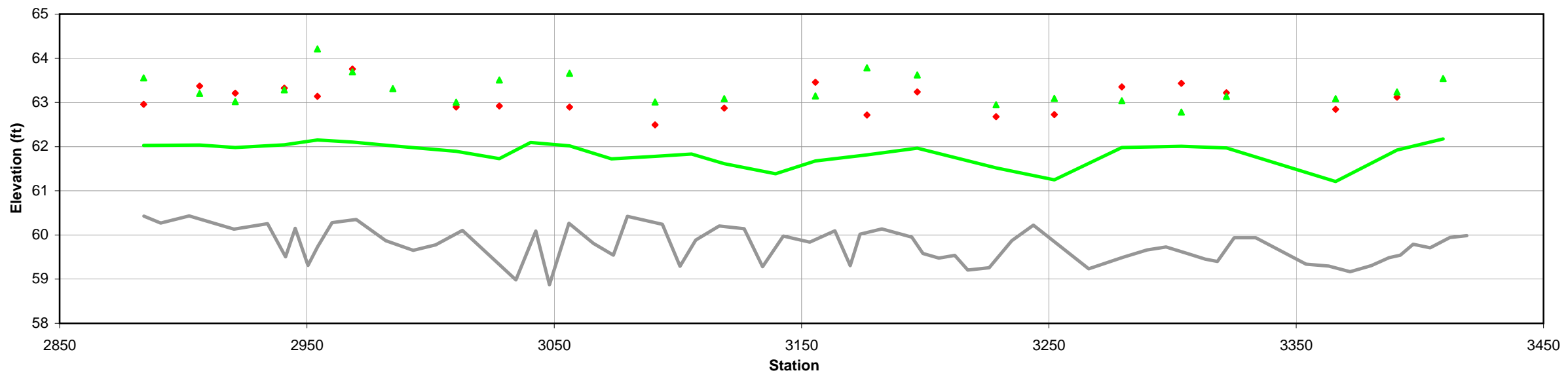
Year 2 2008  
Conoconnara Profile - Reach 1  
STA 3+71 to STA 23+87

◆ LTB ▲ RTB — As-Built (Offset -2 ft) — Year 2



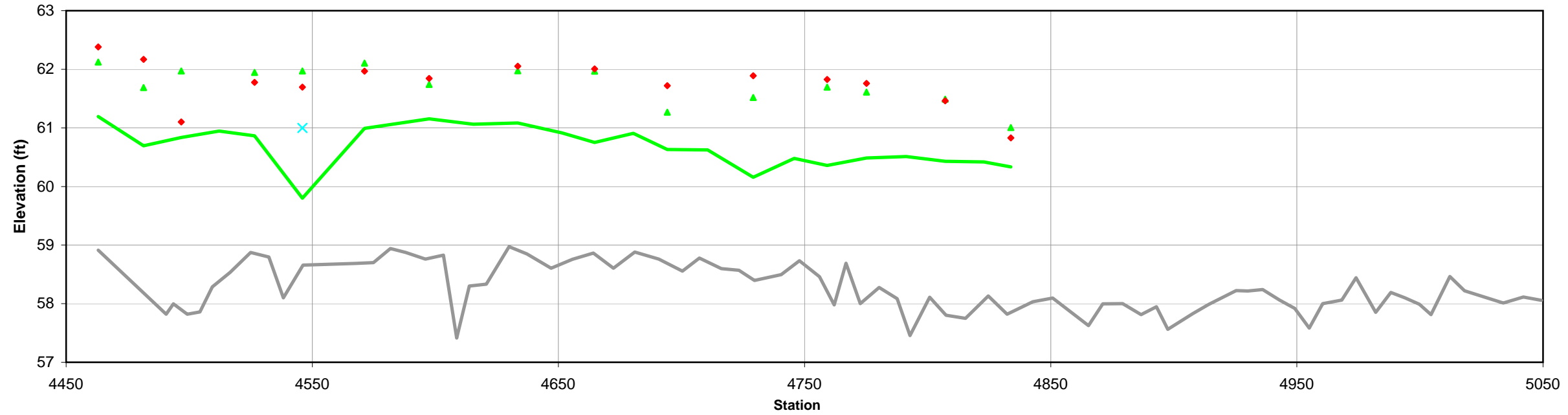
Year 2 2008  
Conoconnara Profile - Reach 2  
STA 28+84 to STA 34+19

◆ LTB ▲ RTB — As-Built (Offset -2 ft) — Year 2



Year 2 2008  
Conoconnara Profile - Reach 3  
STA 44+63 to STA 50+49

▲ RTB    ◆ LTB    × Water Srf    — Year 2    — As-Built (Offset -2 ft)

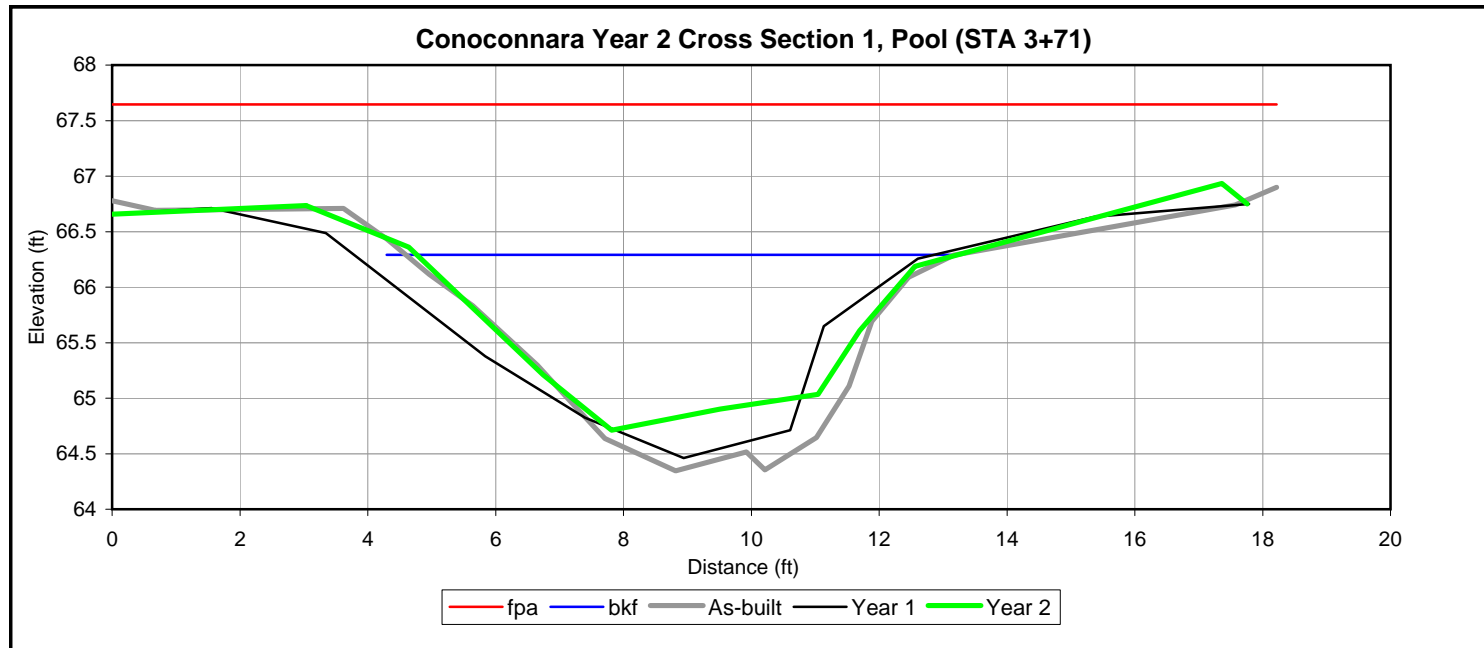




Left bank



Right bank

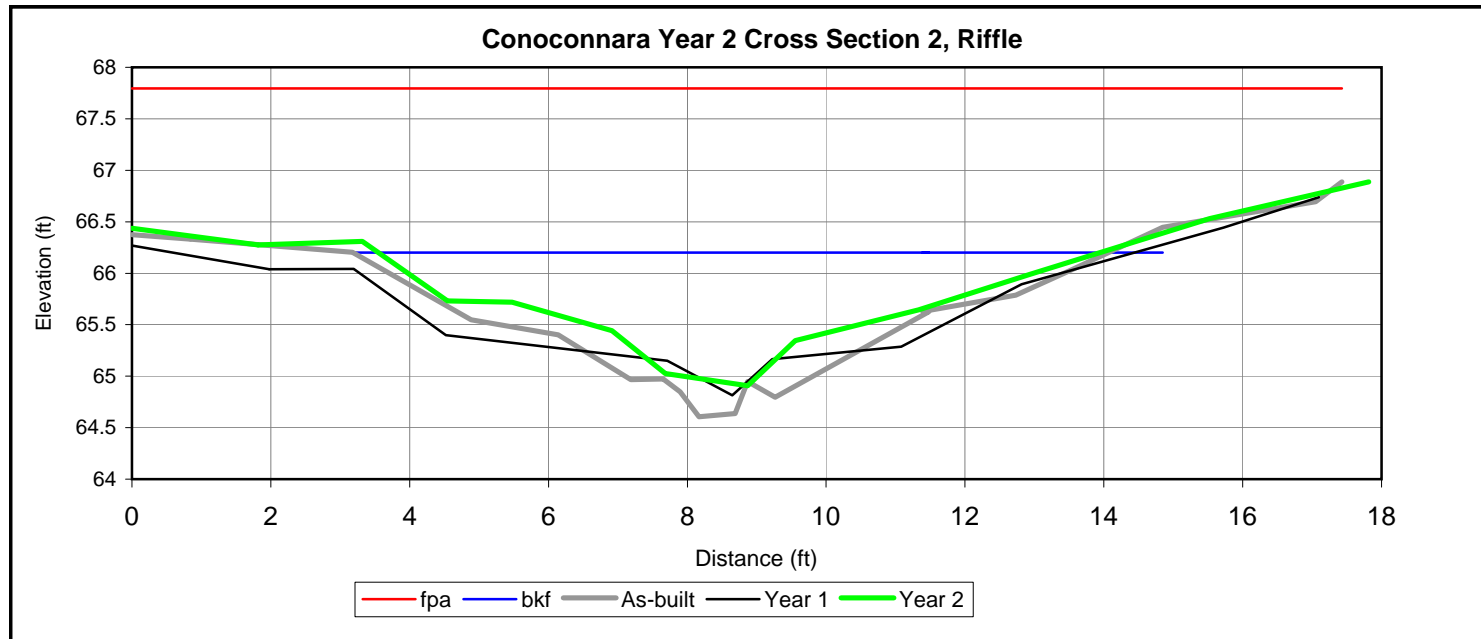




Left bank



Right bank

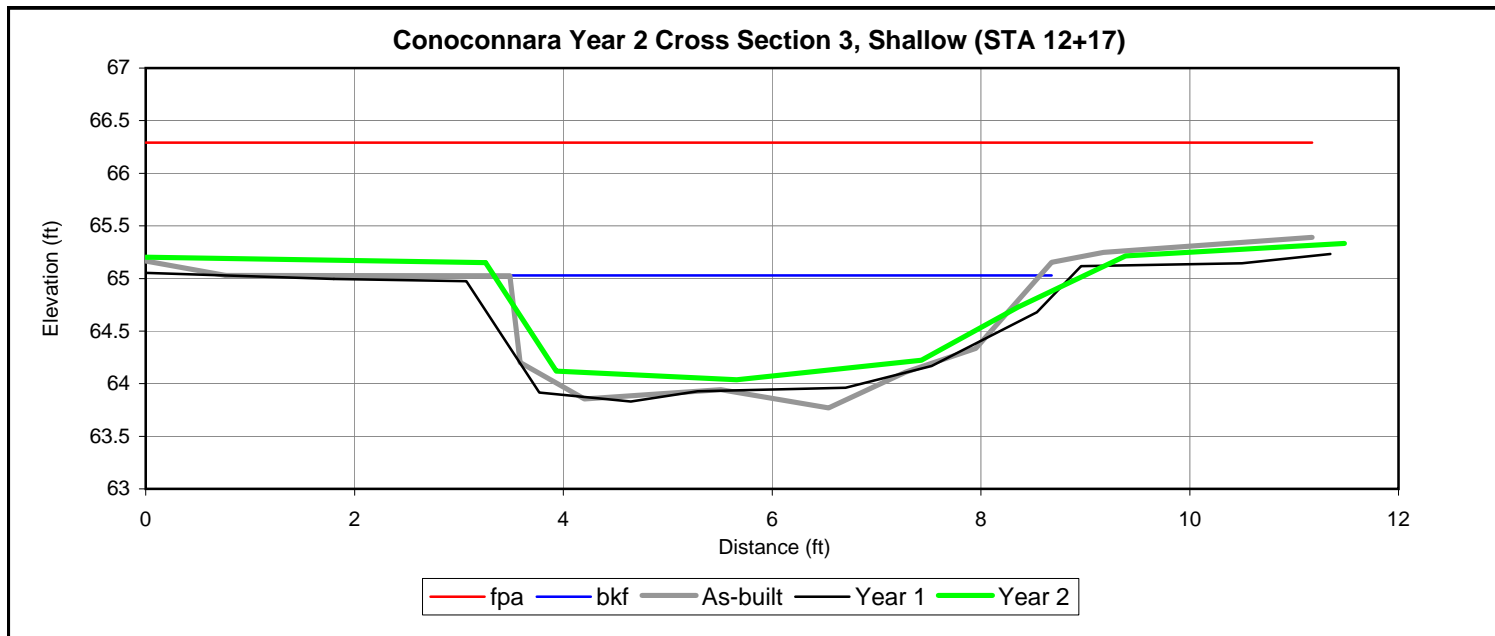




Left bank



Right bank



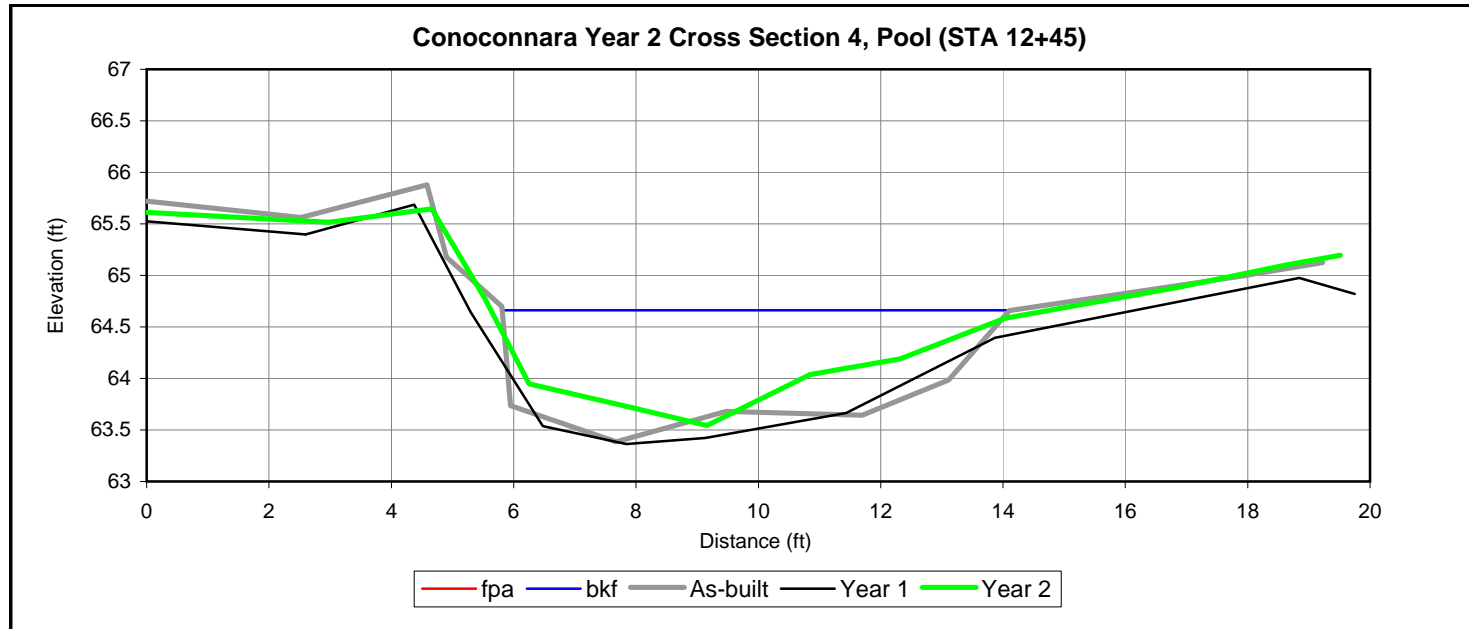




Left bank



Right bank

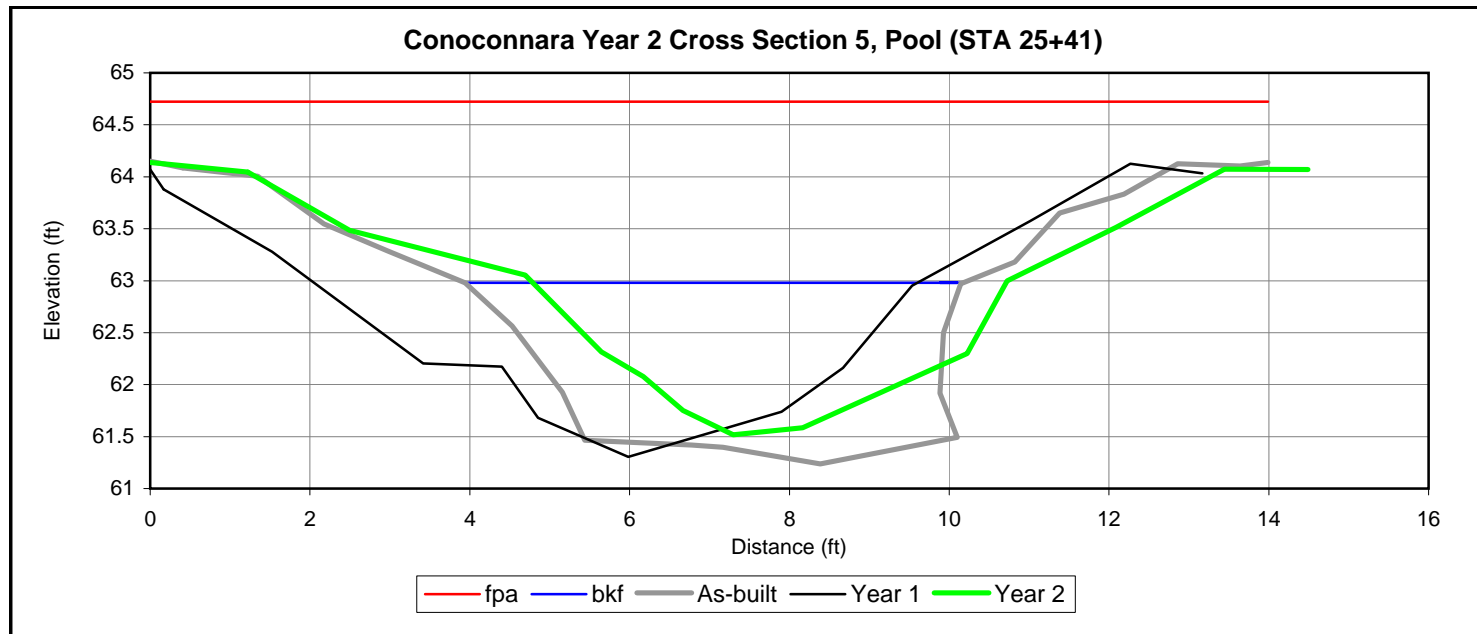




Left bank



Right bank

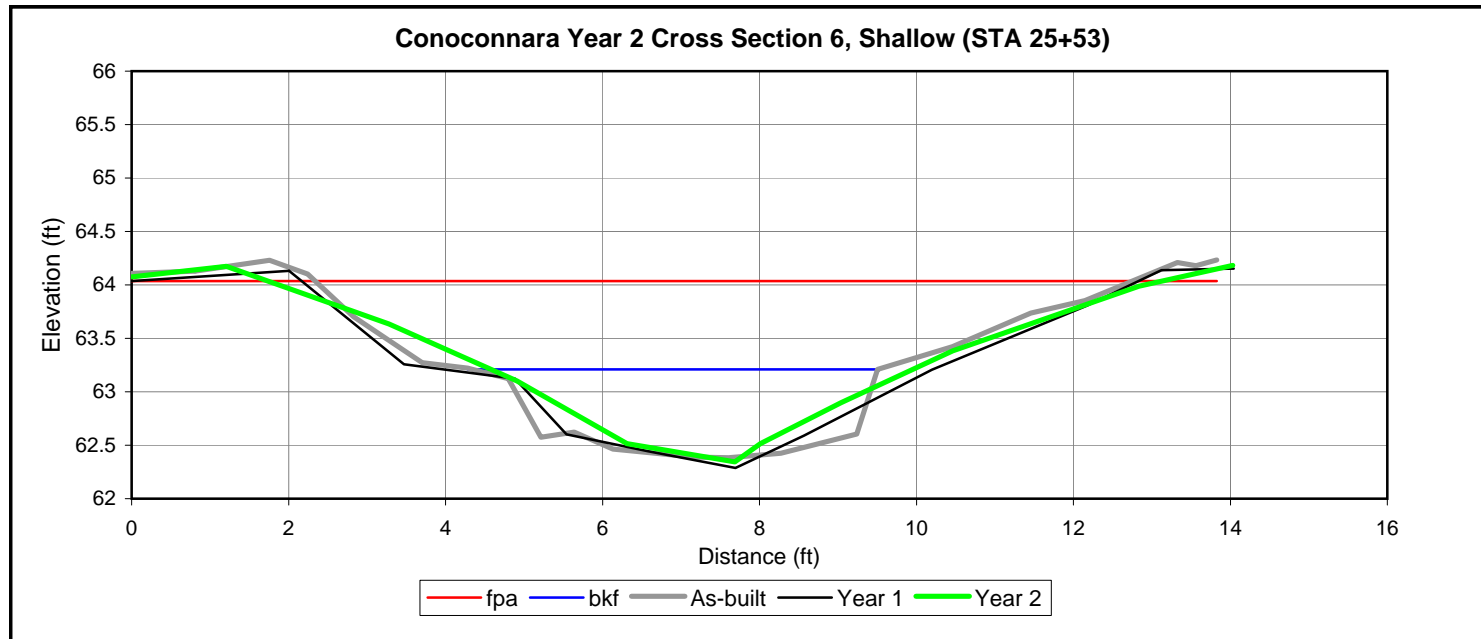




Left bank



Right bank

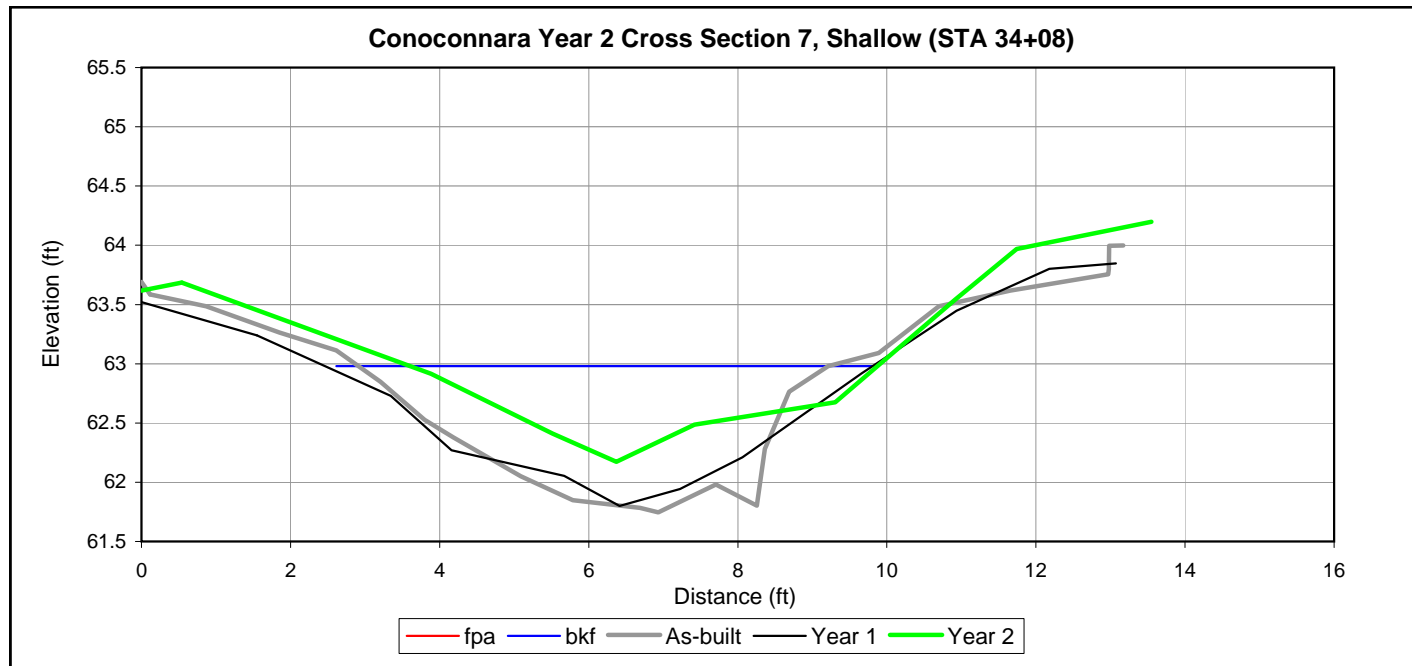




Left bank



Right bank

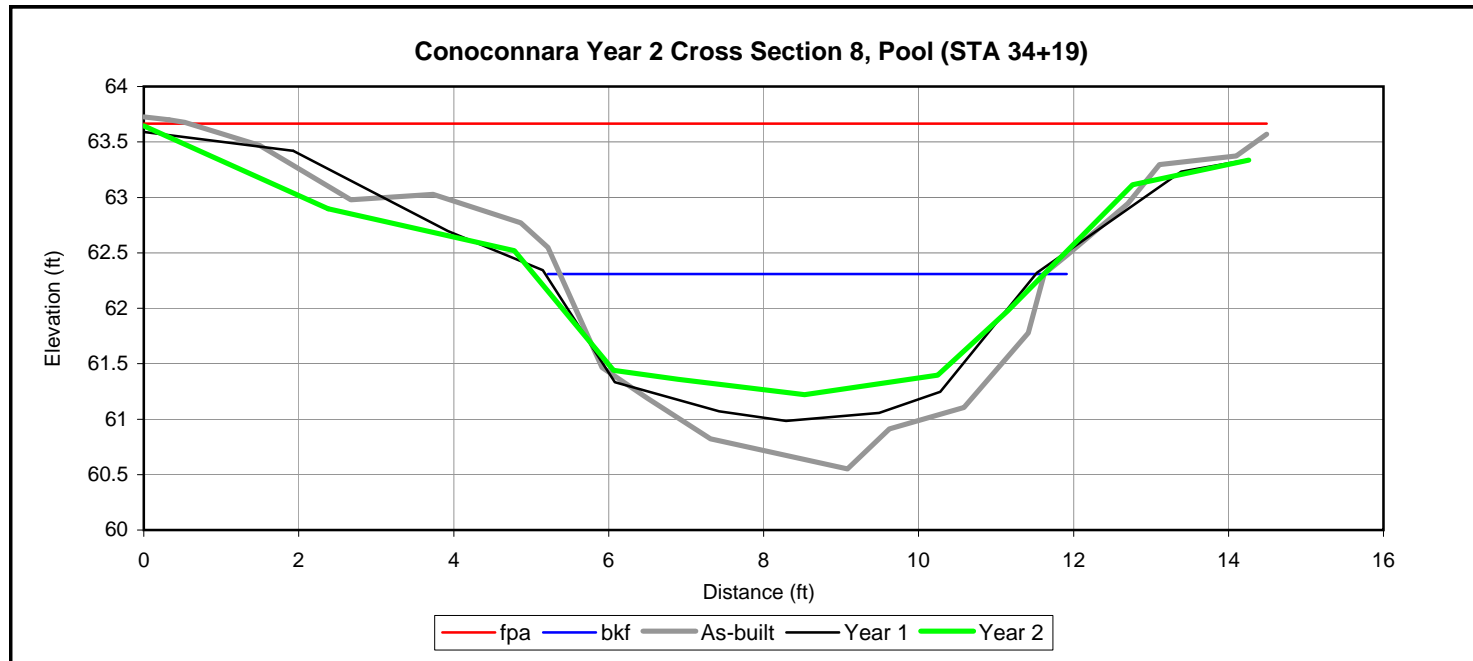




Left bank



Right bank

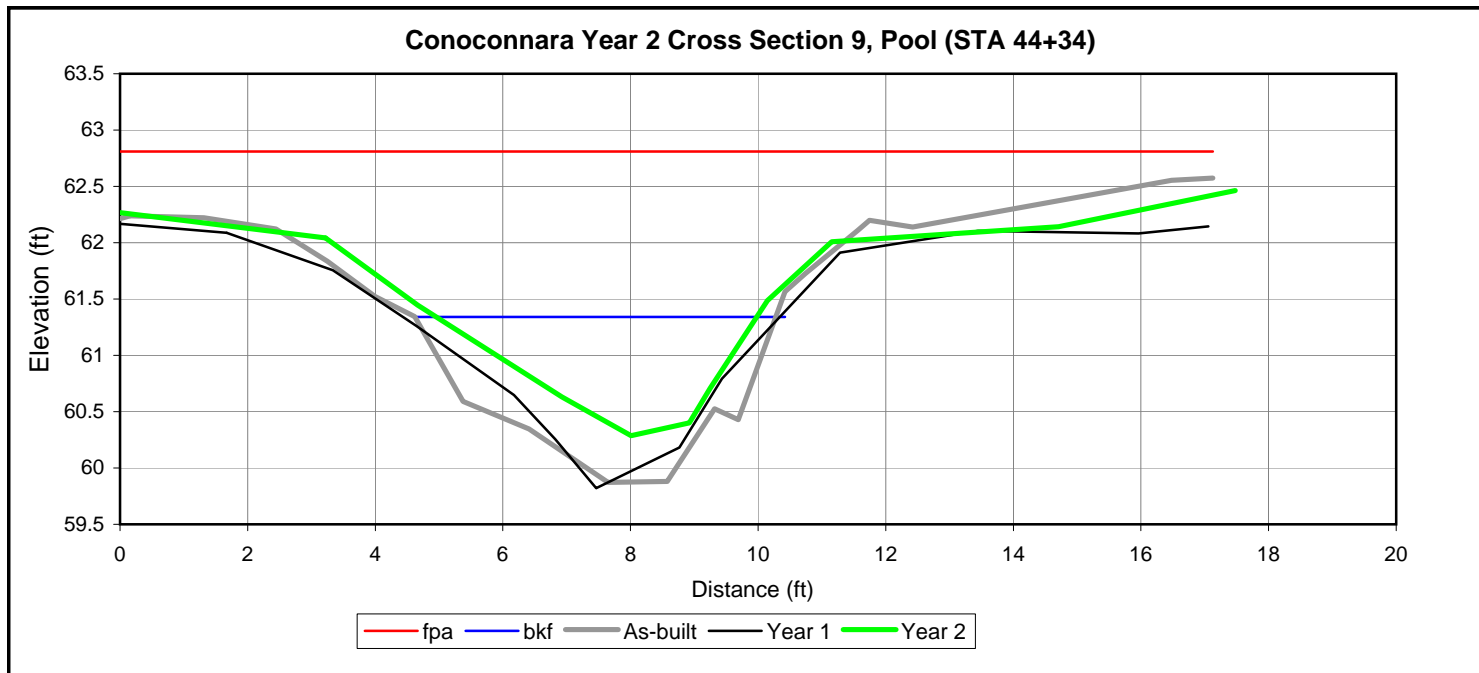




Left bank



Right bank

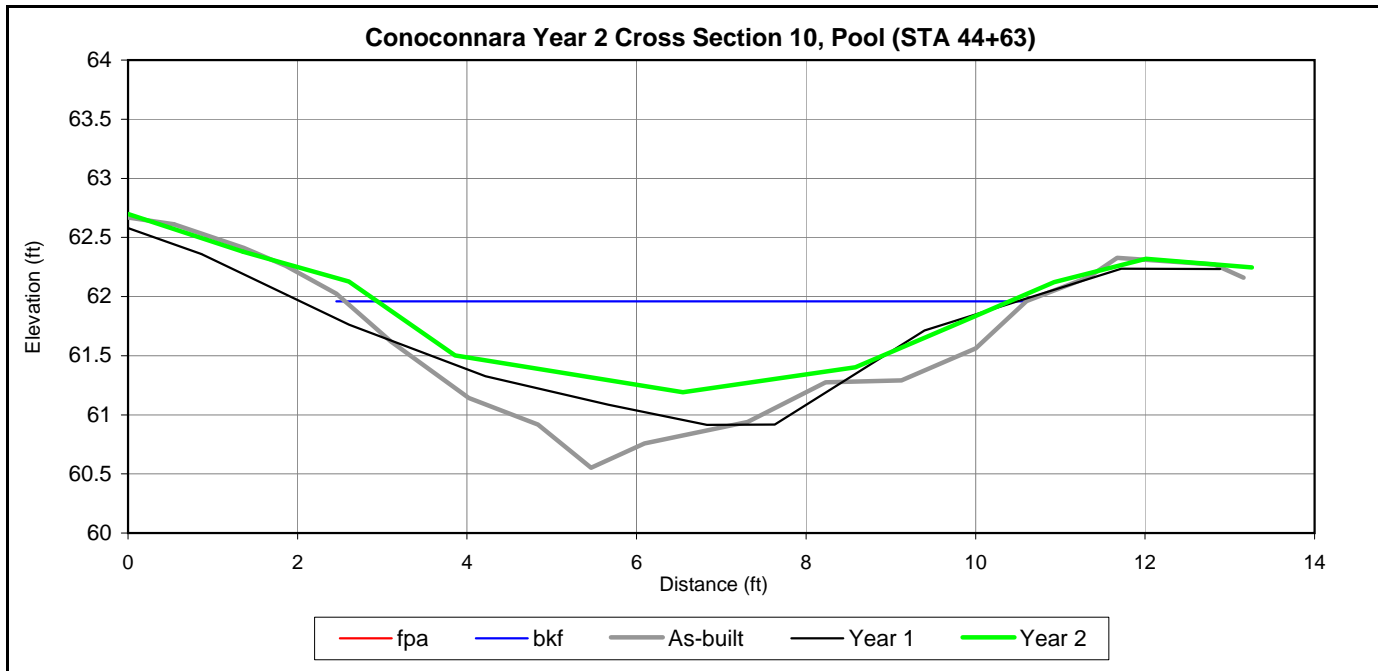




Left bank



Right bank



# **APPENDIX C**

## **2008 Gauge Data**



Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
01-Jan-2008	08:00:00	-15.91	1.16	-3.33	-39.16	-8.58	-2.19	-2.19	-1.60
01-Jan-2008	20:00:00	-17.23	0.92	-4.69	-38.05	-8.81	-2.66	-2.66	-2.25
02-Jan-2008	08:00:00	-18.86	0.40	-5.60	-39.01	-10.56	-3.52	-3.52	-3.63
02-Jan-2008	20:00:00	-20.51	0.42	-6.35	-41.25	-12.73	-3.85	-3.85	-3.50
03-Jan-2008	08:00:00	-22.45	-0.66	-9.68	-43.05	-16.23	-7.51	-7.51	-9.27
03-Jan-2008	20:00:00	-24.34	-0.16	-11.43	-44.77	-18.62	-5.94	-5.94	-3.34
04-Jan-2008	08:00:00	-25.99	-3.13	-12.44	-46.09	-20.15	-9.61	-9.61	-10.62
04-Jan-2008	20:00:00	-27.26	-0.73	-13.03	-46.47	-20.88	-6.45	-6.45	-2.83
05-Jan-2008	08:00:00	-28.16	-1.99	-13.95	-46.46	-21.48	-8.96	-8.96	-7.50
05-Jan-2008	20:00:00	-28.86	-0.89	-14.82	-46.43	-21.97	-6.73	-6.73	-2.60
06-Jan-2008	08:00:00	-29.59	-0.94	-15.32	-46.44	-22.45	-6.55	-6.55	-2.72
06-Jan-2008	20:00:00	-30.28	-1.36	-16.00	-46.42	-22.75	-7.02	-7.02	-3.90
07-Jan-2008	08:00:00	-31.02	-3.05	-16.85	-46.43	-23.17	-8.07	-8.07	-3.38
07-Jan-2008	20:00:00	-31.69	-4.44	-17.78	-46.43	-23.59	-8.87	-8.87	-4.54
08-Jan-2008	08:00:00	-32.29	-6.56	-18.56	-46.45	-23.70	-10.18	-10.18	-3.71
08-Jan-2008	20:00:00	-32.72	-7.76	-19.27	-46.42	-23.71	-10.74	-10.74	-4.48
09-Jan-2008	08:00:00	-33.02	-8.57	-19.71	-46.39	-23.15	-10.95	-10.95	-3.16
09-Jan-2008	20:00:00	-33.37	-9.07	-20.28	-46.41	-23.15	-11.81	-11.81	-5.28
10-Jan-2008	08:00:00	-33.88	-10.09	-20.90	-46.45	-23.37	-13.56	-13.56	-5.71
10-Jan-2008	20:00:00	-34.19	-10.76	-21.39	-46.42	-23.50	-14.51	-14.51	-6.35
11-Jan-2008	08:00:00	-34.24	-5.84	-21.73	-46.41	-23.47	-14.38	-14.38	-3.88
11-Jan-2008	20:00:00	-34.34	-1.04	-18.66	-46.42	-22.13	-10.55	-10.55	-5.26
12-Jan-2008	08:00:00	-34.68	-2.84	-19.39	-46.45	-22.73	-11.23	-11.23	-5.53
12-Jan-2008	20:00:00	-35.11	-4.41	-20.23	-46.44	-23.35	-13.14	-13.14	-7.31
13-Jan-2008	08:00:00	-35.45	-7.32	-21.00	-46.45	-23.78	-15.00	-15.00	-7.75
13-Jan-2008	20:00:00	-35.66	-8.54	-21.62	-46.43	-23.98	-15.73	-15.73	-6.09
14-Jan-2008	08:00:00	-35.90	-9.53	-22.25	-46.45	-24.14	-16.15	-16.15	-6.36
14-Jan-2008	20:00:00	-36.25	-10.54	-22.84	-46.46	-24.42	-16.87	-16.87	-9.11
15-Jan-2008	08:00:00	-36.77	-11.60	-23.45	-46.47	-24.82	-18.06	-18.06	-11.80
15-Jan-2008	20:00:00	-37.21	-12.50	-24.06	-46.48	-25.19	-19.26	-19.26	-12.36
16-Jan-2008	08:00:00	-37.98	-13.33	-24.76	-46.50	-25.92	-20.97	-20.97	-14.42
16-Jan-2008	20:00:00	-38.59	-14.30	-25.39	-46.48	-26.51	-22.60	-22.60	-15.14
17-Jan-2008	08:00:00	-39.09	-14.99	-25.90	-46.46	-26.96	-23.58	-23.58	-15.54
17-Jan-2008	20:00:00	-38.98	0.80	-25.64	-46.43	-18.34	-15.64	-15.64	-2.74
18-Jan-2008	08:00:00	-31.61	0.74	-10.23	-46.46	-17.49	-12.01	-12.01	-3.40
18-Jan-2008	20:00:00	-29.72	0.56	-9.45	-46.45	-17.36	-10.04	-10.04	-3.91
19-Jan-2008	08:00:00	-29.41	0.50	-8.20	-46.45	-17.41	-8.96	-8.96	-3.45
19-Jan-2008	20:00:00	-5.07	1.57	-7.39	-46.45	-1.14	-1.52	-1.52	-2.02
20-Jan-2008	08:00:00	-0.35	1.21	-7.08	-46.47	-2.53	-2.06	-2.06	-2.17
20-Jan-2008	20:00:00	-4.09	0.81	-8.26	-46.51	-3.49	-3.31	-3.31	-2.89
21-Jan-2008	08:00:00	-9.87	-0.16	-10.58	-46.51	-8.16	-6.21	-6.21	-6.20
21-Jan-2008	20:00:00	-10.14	0.28	-9.82	-46.50	-8.08	-4.20	-4.20	-3.11
22-Jan-2008	08:00:00	-12.81	-0.11	-8.94	-46.48	-8.91	-4.75	-4.75	-6.77
22-Jan-2008	20:00:00	-11.25	0.61	-8.40	-46.45	-7.09	-2.98	-2.98	-2.49
23-Jan-2008	08:00:00	-0.11	1.19	-7.67	-46.46	-2.62	-2.16	-2.16	-2.10
23-Jan-2008	20:00:00	-1.21	0.91	-6.77	-46.45	-2.92	-2.26	-2.26	-2.31
24-Jan-2008	08:00:00	-1.79	0.83	-5.67	-46.45	-2.87	-2.26	-2.26	-2.34
24-Jan-2008	20:00:00	-3.03	0.58	-4.15	-18.95	-3.36	-2.73	-2.73	-2.95
25-Jan-2008	08:00:00	-7.65	-0.24	-5.52	-18.17	-6.48	-4.56	-4.56	-6.62

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
25-Jan-2008	20:00:00	-8.51	0.13	-5.30	-25.36	-7.36	-3.52	-3.52	-3.43
26-Jan-2008	08:00:00	-10.92	-0.23	-4.80	-28.42	-7.20	-3.61	-3.61	-4.85
26-Jan-2008	20:00:00	-10.87	0.18	-5.04	-30.99	-6.24	-3.07	-3.07	-3.08
27-Jan-2008	08:00:00	-12.28	-0.22	-5.35	-32.46	-6.05	-3.48	-3.48	-4.94
27-Jan-2008	20:00:00	-13.73	-0.07	-5.63	-34.18	-6.19	-3.71	-3.71	-4.39
28-Jan-2008	08:00:00	-15.22	-0.68	-6.60	-35.64	-7.38	-4.55	-4.55	-6.89
28-Jan-2008	20:00:00	-16.46	-0.34	-6.33	-37.91	-7.47	-4.12	-4.12	-4.74
29-Jan-2008	08:00:00	-17.37	-0.40	-5.73	-39.88	-7.53	-4.05	-4.05	-4.40
29-Jan-2008	20:00:00	-17.92	-0.33	-5.62	-41.39	-7.47	-4.23	-4.23	-5.42
30-Jan-2008	08:00:00	-18.28	-0.25	-6.57	-43.00	-6.92	-3.64	-3.64	-4.42
30-Jan-2008	20:00:00	-19.35	-0.78	-8.15	-44.80	-8.18	-6.04	-6.04	-6.52
31-Jan-2008	08:00:00	-20.82	-1.31	-10.38	-46.27	-9.81	-7.47	-7.47	-9.66
31-Jan-2008	20:00:00	-22.06	-1.13	-11.97	-46.42	-10.77	-8.26	-8.26	-9.46
01-Feb-2008	08:00:00	-22.58	-0.02	-11.96	-46.38	-9.77	-5.36	-5.36	-6.53
01-Feb-2008	20:00:00	-12.34	0.74	-10.81	-46.39	-6.59	-1.92	-1.92	-2.11
02-Feb-2008	08:00:00	-8.90	0.38	-7.98	-29.36	-3.75	-2.50	-2.50	-2.61
02-Feb-2008	20:00:00	-9.15	0.29	-5.38	-17.87	-3.35	-2.36	-2.36	-2.86
03-Feb-2008	08:00:00	-10.24	0.19	-4.98	-13.84	-3.37	-2.62	-2.62	-3.22
03-Feb-2008	20:00:00	-11.06	0.11	-6.39	-12.98	-3.52	-2.68	-2.68	-4.06
04-Feb-2008	08:00:00	-12.43	0.02	-5.57	-14.07	-3.73	-2.91	-2.91	-4.23
04-Feb-2008	20:00:00	-13.46	-0.03	-5.89	-14.95	-3.66	-2.99	-2.99	-4.85
05-Feb-2008	08:00:00	-14.22	-0.01	-5.57	-15.31	-3.07	-2.91	-2.91	-3.66
05-Feb-2008	20:00:00	-14.62	0.00	-5.94	-20.65	-3.12	-2.95	-2.95	-5.28
06-Feb-2008	08:00:00	-14.88	-0.01	-6.86	-23.93	-3.26	-3.01	-3.01	-4.51
06-Feb-2008	20:00:00	-14.82	0.02	-7.07	-25.99	-4.04	-3.32	-3.32	-6.21
07-Feb-2008	08:00:00	-15.06	-0.21	-7.89	-28.29	-5.19	-4.08	-4.08	-7.53
07-Feb-2008	20:00:00	-15.74	-0.51	-8.79	-32.69	-7.43	-5.22	-5.22	-9.23
08-Feb-2008	08:00:00	-16.36	-0.61	-9.93	-34.99	-8.28	-5.61	-5.61	-10.18
08-Feb-2008	20:00:00	-17.23	-0.85	-10.58	-38.31	-9.40	-6.66	-6.66	-10.74
09-Feb-2008	08:00:00	-18.07	-0.93	-10.96	-40.70	-10.43	-7.71	-7.71	-11.31
09-Feb-2008	20:00:00	-18.47	-0.98	-11.37	-42.32	-10.81	-9.08	-9.08	-11.12
10-Feb-2008	08:00:00	-19.12	-1.23	-12.14	-43.91	-11.70	-11.92	-11.92	-11.98
10-Feb-2008	20:00:00	-19.63	-1.64	-12.77	-45.35	-12.57	-14.37	-14.37	-12.41
11-Feb-2008	08:00:00	-20.85	-3.20	-13.92	-46.46	-14.44	-17.52	-17.52	-13.84
11-Feb-2008	20:00:00	-21.84	-5.80	-14.91	-46.48	-15.87	-19.76	-19.76	-14.60
12-Feb-2008	08:00:00	-22.61	-8.20	-15.82	-46.44	-16.83	-21.08	-21.08	-15.37
12-Feb-2008	20:00:00	-22.94	-9.05	-16.38	-46.43	-17.05	-21.21	-21.21	-15.41
13-Feb-2008	08:00:00	-22.77	-0.85	-12.71	-46.40	-16.08	-19.92	-19.92	-13.02
13-Feb-2008	20:00:00	-18.79	0.79	-5.46	-2.43	-13.15	-7.63	-7.63	-4.11
14-Feb-2008	08:00:00	-12.74	0.16	-5.26	-3.08	-11.27	-4.27	-4.27	-2.48
14-Feb-2008	20:00:00	-13.15	-0.07	-6.02	-5.29	-10.08	-3.64	-3.64	-2.98
15-Feb-2008	08:00:00	-14.52	-0.16	-5.11	-8.57	-10.03	-3.35	-3.35	-3.33
15-Feb-2008	20:00:00	-15.24	-0.22	-5.11	-12.29	-9.11	-3.19	-3.19	-4.93
16-Feb-2008	08:00:00	-16.08	-0.43	-5.02	-16.40	-8.87	-3.67	-3.67	-5.26
16-Feb-2008	20:00:00	-17.01	-0.55	-5.22	-19.78	-9.21	-4.04	-4.04	-6.57
17-Feb-2008	08:00:00	-17.72	-0.56	-5.52	-23.43	-8.75	-4.01	-4.01	-7.72
17-Feb-2008	20:00:00	-17.81	-0.39	-4.69	-25.46	-7.58	-3.18	-3.18	-6.69
18-Feb-2008	08:00:00	-17.38	0.88	-3.83	-2.89	-5.58	-1.58	-1.58	-4.26
18-Feb-2008	20:00:00	-12.49	0.40	-3.68	-7.57	-3.64	-1.88	-1.88	-2.31

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
19-Feb-2008	08:00:00	-13.85	0.02	-4.64	-15.40	-3.74	-2.64	-2.64	-3.13
19-Feb-2008	20:00:00	-14.73	-0.21	-4.77	-20.33	-3.56	-2.92	-2.92	-6.38
20-Feb-2008	08:00:00	-15.77	-0.42	-5.39	-24.75	-4.46	-3.38	-3.38	-8.01
20-Feb-2008	20:00:00	-16.33	-0.29	-4.81	-27.64	-4.46	-3.33	-3.33	-7.60
21-Feb-2008	08:00:00	-17.76	-0.70	-6.37	-30.38	-7.35	-4.94	-4.94	-10.06
21-Feb-2008	20:00:00	-18.92	-0.80	-6.24	-32.80	-8.45	-4.99	-4.99	-10.54
22-Feb-2008	08:00:00	-19.34	0.45	-5.83	-34.40	-7.92	-2.69	-2.69	-7.02
22-Feb-2008	20:00:00	-13.45	0.47	-4.95	-3.42	-6.00	-1.74	-1.74	-2.96
23-Feb-2008	08:00:00	-11.08	0.42	-4.77	-3.47	-4.95	-1.93	-1.93	-2.88
23-Feb-2008	20:00:00	-8.36	0.37	-5.32	-2.77	-4.16	-1.97	-1.97	-2.37
24-Feb-2008	08:00:00	-7.97	0.13	-6.96	-8.23	-4.53	-2.32	-2.32	-3.36
24-Feb-2008	20:00:00	-9.28	0.08	-6.61	-14.39	-3.88	-2.16	-2.16	-3.92
25-Feb-2008	08:00:00	-10.26	0.06	-6.81	-18.50	-3.68	-2.30	-2.30	-4.67
25-Feb-2008	20:00:00	-10.94	0.00	-6.46	-21.44	-3.21	-2.36	-2.36	-5.05
26-Feb-2008	08:00:00	-11.38	0.11	-6.46	-23.81	-3.28	-2.27	-2.27	-4.33
26-Feb-2008	20:00:00	-9.39	0.75	-5.12	-3.39	-2.11	-1.49	-1.49	-2.47
27-Feb-2008	08:00:00	-6.05	0.49	-5.90	-3.22	-2.41	-1.89	-1.89	-2.50
27-Feb-2008	20:00:00	-7.38	0.11	-6.98	-11.18	-3.12	-2.37	-2.37	-4.07
28-Feb-2008	08:00:00	-9.81	-0.64	-9.16	-17.02	-5.53	-3.49	-3.49	-6.71
28-Feb-2008	20:00:00	-12.04	-0.42	-10.21	-21.66	-6.71	-3.15	-3.15	-6.27
29-Feb-2008	08:00:00	-14.17	-0.70	-11.34	-25.16	-7.65	-3.67	-3.67	-8.80
29-Feb-2008	20:00:00	-15.44	-0.53	-10.34	-27.56	-7.08	-3.38	-3.38	-7.06
1-Mar-2008	08:00:00	-15.94	-0.52	-9.98	-29.22	-7.15	-3.50	-3.50	-6.12
1-Mar-2008	20:00:00	-16.37	-0.73	-9.50	-30.93	-7.85	-4.64	-4.64	-5.30
2-Mar-2008	08:00:00	-17.26	-1.05	-10.47	-33.13	-9.20	-5.57	-5.57	-5.48
2-Mar-2008	20:00:00	-18.20	-1.11	-10.82	-34.61	-9.68	-6.08	-6.08	-5.20
3-Mar-2008	08:00:00	-18.98	-1.16	-11.19	-35.95	-10.37	-6.95	-6.95	-6.14
3-Mar-2008	20:00:00	-19.39	-1.24	-11.29	-37.76	-10.34	-8.19	-8.19	-6.80
4-Mar-2008	08:00:00	-19.55	-1.21	-11.39	-39.12	-10.56	-9.33	-9.33	-7.79
4-Mar-2008	20:00:00	-19.21	-1.18	-11.04	-40.13	-10.19	-10.44	-10.44	-7.85
5-Mar-2008	08:00:00	-14.58	0.54	-9.53	-10.84	-7.67	-1.84	-1.84	-2.62
5-Mar-2008	20:00:00	-14.83	0.10	-9.27	-8.98	-6.67	-2.42	-2.42	-4.73
6-Mar-2008	08:00:00	-16.00	-0.15	-6.02	-16.19	-6.26	-3.05	-3.05	-5.48
6-Mar-2008	20:00:00	-16.70	-0.23	-6.43	-20.90	-6.37	-3.18	-3.18	-5.56
7-Mar-2008	08:00:00	-17.16	-0.41	-7.28	-24.75	-6.21	-3.31	-3.31	-6.29
7-Mar-2008	20:00:00	-13.91	0.89	-6.92	-26.73	-3.52	-1.25	-1.25	-1.09
8-Mar-2008	08:00:00	-7.52	0.69	-6.69	-27.74	-0.92	-1.54	-1.54	-1.43
8-Mar-2008	20:00:00	-6.00	0.21	-6.89	-28.95	-1.21	-2.30	-2.30	-2.16
9-Mar-2008	08:00:00	-9.03	-0.20	-8.65	-31.78	-2.54	-2.88	-2.88	-3.77
9-Mar-2008	20:00:00	-11.11	-0.43	-9.70	-34.67	-2.80	-3.15	-3.15	-4.72
10-Mar-2008	08:00:00	-12.89	-0.61	-6.40	-37.60	-2.93	-3.48	-3.48	-5.31
10-Mar-2008	20:00:00	-13.90	-0.59	-6.13	-39.27	-3.61	-3.50	-3.50	-4.34
11-Mar-2008	08:00:00	-14.46	-0.63	-7.06	-40.50	-4.47	-3.82	-3.82	-4.65
11-Mar-2008	20:00:00	-14.69	-0.55	-7.20	-41.48	-5.12	-3.90	-3.90	-4.29
12-Mar-2008	08:00:00	-14.65	-0.62	-7.50	-42.50	-5.84	-4.30	-4.30	-3.98
12-Mar-2008	20:00:00	-15.04	-0.93	-7.85	-43.53	-7.50	-6.08	-6.08	-4.63
13-Mar-2008	08:00:00	-15.75	-0.96	-9.23	-44.55	-8.97	-7.14	-7.14	-5.59
13-Mar-2008	20:00:00	-16.16	-1.10	-9.76	-45.49	-9.42	-8.73	-8.73	-6.02
14-Mar-2008	08:00:00	-16.48	-1.24	-10.25	-46.24	-10.17	-11.13	-11.13	-7.14

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
14-Mar-2008	20:00:00	-16.39	-1.46	-10.33	-46.62	-10.49	-13.04	-13.04	-7.70
15-Mar-2008	08:00:00	-16.70	-1.92	-10.80	-46.51	-11.26	-15.51	-15.51	-8.60
15-Mar-2008	20:00:00	-17.00	-0.98	-9.98	-46.51	-10.22	-15.67	-15.67	-7.15
16-Mar-2008	08:00:00	-15.66	0.32	-6.33	-46.53	-9.48	-3.32	-3.32	-3.16
16-Mar-2008	20:00:00	-15.90	-0.04	-7.88	-46.53	-10.01	-4.05	-4.05	-4.87
17-Mar-2008	08:00:00	-17.59	-0.44	-7.87	-46.55	-11.10	-4.84	-4.84	-7.10
17-Mar-2008	20:00:00	-18.69	-0.50	-8.13	-46.54	-10.98	-5.39	-5.39	-8.27
18-Mar-2008	08:00:00	-19.26	-0.59	-8.22	-46.55	-10.77	-5.45	-5.45	-9.43
18-Mar-2008	20:00:00	-19.37	-0.53	-7.85	-46.53	-10.07	-5.10	-5.10	-9.88
19-Mar-2008	08:00:00	-19.06	-0.50	-7.24	-46.53	-9.41	-5.00	-5.00	-10.05
19-Mar-2008	20:00:00	-18.38	-0.40	-6.37	-46.52	-8.46	-5.71	-5.71	-9.61
20-Mar-2008	08:00:00	-17.93	-0.61	-6.76	-46.51	-8.21	-6.45	-6.45	-9.57
20-Mar-2008	20:00:00	-18.68	-1.22	-8.28	-46.54	-9.82	-11.46	-11.46	-10.35
21-Mar-2008	08:00:00	-19.64	-1.48	-10.30	-46.55	-11.45	-15.40	-15.40	-11.45
21-Mar-2008	20:00:00	-20.08	-1.61	-11.11	-46.54	-12.34	-16.87	-16.87	-11.84
22-Mar-2008	08:00:00	-20.12	-1.60	-11.54	-46.54	-12.85	-17.95	-17.95	-12.15
22-Mar-2008	20:00:00	-19.97	-2.24	-11.78	-46.52	-13.19	-18.60	-18.60	-12.29
23-Mar-2008	08:00:00	-20.72	-5.00	-12.77	-46.53	-14.76	-21.13	-21.13	-13.12
23-Mar-2008	20:00:00	-21.16	-6.86	-13.51	-46.46	-15.85	-22.47	-22.47	-13.54
24-Mar-2008	08:00:00	-21.61	-9.20	-14.25	-46.47	-16.62	-23.39	-23.39	-14.06
24-Mar-2008	20:00:00	-22.00	-10.55	-14.94	-46.47	-17.57	-24.13	-24.13	-14.47
25-Mar-2008	08:00:00	-22.66	-11.02	-15.91	-46.48	-18.94	-25.36	-25.36	-15.24
25-Mar-2008	20:00:00	-23.25	-11.95	-16.86	-46.47	-19.87	-26.15	-26.15	-15.57
26-Mar-2008	08:00:00	-23.64	-12.72	-17.74	-46.48	-20.35	-26.31	-26.31	-16.06
26-Mar-2008	20:00:00	-23.83	-13.20	-18.31	-46.47	-20.72	-26.11	-26.11	-16.20
27-Mar-2008	08:00:00	-24.05	-13.69	-18.83	-46.47	-20.93	-26.25	-26.25	-16.50
27-Mar-2008	20:00:00	-24.00	-13.99	-19.12	-46.46	-21.16	-25.94	-25.94	-16.53
28-Mar-2008	08:00:00	-24.02	-14.36	-19.42	-46.48	-21.40	-25.87	-25.87	-16.73
28-Mar-2008	20:00:00	-23.98	-14.72	-19.67	-46.47	-21.67	-25.94	-25.94	-16.81
29-Mar-2008	08:00:00	-24.63	-15.47	-20.47	-46.47	-22.46	-27.36	-27.36	-17.39
29-Mar-2008	20:00:00	-25.27	-16.04	-21.22	-46.46	-23.23	-28.70	-28.70	-17.83
30-Mar-2008	08:00:00	-25.87	-16.71	-22.09	-46.46	-23.94	-29.63	-29.63	-18.43
30-Mar-2008	20:00:00	-26.44	-2.25	-16.78	-46.47	-24.23	-30.10	-30.10	-16.40
31-Mar-2008	08:00:00	-26.49	-2.06	-15.60	-46.48	-24.41	-29.20	-29.20	-15.65
31-Mar-2008	20:00:00	-24.30	-1.93	-14.14	-46.46	-24.22	-27.90	-27.90	-15.20
1-Apr-2008	08:00:00	-23.28	-2.01	-14.76	-46.48	-23.87	-26.27	-26.27	-15.28
1-Apr-2008	20:00:00	-19.76	-0.59	-13.75	-46.47	-22.79	-24.61	-24.61	-10.03
2-Apr-2008	08:00:00	-15.78	-0.82	-5.92	-46.48	-22.32	-21.64	-21.64	-8.61
2-Apr-2008	20:00:00	-17.03	-1.21	-8.33	-46.48	-22.49	-21.06	-21.06	-9.59
3-Apr-2008	08:00:00	-18.27	-1.38	-11.31	-46.48	-22.80	-22.19	-22.19	-10.99
3-Apr-2008	20:00:00	-18.83	-1.34	-12.56	-46.47	-22.89	-22.43	-22.43	-11.74
4-Apr-2008	08:00:00	-15.38	0.40	-6.43	-46.48	-20.26	-16.97	-16.97	-4.05
4-Apr-2008	20:00:00	-13.76	0.25	-7.82	-46.49	-19.82	-11.54	-11.54	-5.27
5-Apr-2008	08:00:00	-10.92	0.58	-7.89	-2.86	-12.44	-2.59	-2.59	-2.08
5-Apr-2008	20:00:00	-5.41	0.76	-7.70	-2.83	-4.40	-1.77	-1.77	-1.27
6-Apr-2008	08:00:00	-0.24	0.58	-7.32	-3.13	-3.75	-2.00	-2.00	-1.86
6-Apr-2008	20:00:00	-0.46	0.34	-4.64	-5.31	-4.00	-2.37	-2.37	-2.36
7-Apr-2008	08:00:00	-0.10	0.24	-5.57	-6.33	-3.65	-2.55	-2.55	-2.36
7-Apr-2008	20:00:00	-1.04	0.20	-5.86	-13.10	-3.59	-2.63	-2.63	-3.35

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
8-Apr-2008	08:00:00	-2.50	0.05	-4.99	-18.17	-3.68	-2.95	-2.95	-3.90
8-Apr-2008	20:00:00	-5.21	-0.09	-6.30	-22.91	-3.68	-3.18	-3.18	-5.25
9-Apr-2008	08:00:00	-5.96	-0.22	-6.95	-26.73	-3.83	-3.40	-3.40	-5.59
9-Apr-2008	20:00:00	-6.69	-0.25	-7.41	-29.45	-3.57	-3.45	-3.45	-5.41
10-Apr-2008	08:00:00	-7.45	-0.34	-8.05	-32.28	-3.73	-3.70	-3.70	-5.90
10-Apr-2008	20:00:00	-8.30	-0.43	-7.86	-34.63	-3.80	-3.98	-3.98	-5.96
11-Apr-2008	08:00:00	-9.20	-0.51	-8.13	-37.12	-4.33	-4.24	-4.24	-6.83
11-Apr-2008	20:00:00	-9.41	-0.64	-7.64	-39.68	-4.74	-4.86	-4.86	-6.73
12-Apr-2008	08:00:00	-9.66	-0.73	-7.67	-41.78	-5.75	-5.27	-5.27	-7.10
12-Apr-2008	20:00:00	-9.76	-0.20	-7.29	-43.62	-5.59	-4.29	-4.29	-5.17
13-Apr-2008	08:00:00	-10.18	-0.44	-7.28	-44.56	-6.21	-5.16	-5.16	-6.60
13-Apr-2008	20:00:00	-10.62	-0.76	-7.62	-45.05	-7.53	-6.18	-6.18	-7.38
14-Apr-2008	08:00:00	-11.59	-1.03	-9.05	-45.78	-9.12	-7.42	-7.42	-9.01
14-Apr-2008	20:00:00	-12.50	-1.28	-9.97	-46.17	-10.09	-8.20	-8.20	-9.97
15-Apr-2008	08:00:00	-13.54	-1.39	-11.27	-46.63	-11.26	-9.24	-9.24	-11.15
15-Apr-2008	20:00:00	-14.70	-1.84	-12.31	-46.50	-12.23	-11.34	-11.34	-11.98
16-Apr-2008	08:00:00	-15.87	-2.67	-13.52	-46.49	-13.38	-15.04	-15.04	-13.11
16-Apr-2008	20:00:00	-16.84	-4.90	-14.34	-46.50	-13.98	-16.83	-16.83	-13.55
17-Apr-2008	08:00:00	-17.52	-6.59	-15.05	-46.49	-14.54	-18.48	-18.48	-14.09
17-Apr-2008	20:00:00	-17.94	-7.56	-15.49	-46.49	-14.75	-19.20	-19.20	-14.11
18-Apr-2008	08:00:00	-18.32	-8.70	-15.90	-46.49	-14.99	-20.06	-20.06	-14.44
18-Apr-2008	20:00:00	-18.57	-9.31	-16.19	-46.49	-15.16	-20.71	-20.71	-14.36
19-Apr-2008	08:00:00	-18.78	-10.16	-16.44	-46.48	-15.38	-21.32	-21.32	-14.60
19-Apr-2008	20:00:00	-18.84	-10.56	-16.56	-46.49	-15.56	-21.79	-21.79	-14.51
20-Apr-2008	08:00:00	-18.89	-9.82	-16.62	-46.50	-15.66	-22.16	-22.16	-13.84
20-Apr-2008	20:00:00	-15.19	0.65	-6.30	-4.51	-13.89	-12.47	-12.47	-1.71
21-Apr-2008	08:00:00	-8.44	0.33	-5.77	-3.77	-11.04	-4.24	-4.24	-2.06
21-Apr-2008	20:00:00	-7.33	0.01	-7.26	-5.03	-9.36	-3.19	-3.19	-3.10
22-Apr-2008	08:00:00	-6.52	-0.07	-6.82	-15.03	-8.01	-3.22	-3.22	-3.08
22-Apr-2008	20:00:00	-1.48	0.43	-6.69	-9.35	-5.44	-2.24	-2.24	-1.52
23-Apr-2008	08:00:00	-1.19	0.12	-6.96	-7.48	-4.03	-2.53	-2.53	-2.47
23-Apr-2008	20:00:00	-6.17	-0.15	-6.95	-15.44	-3.06	-2.66	-2.66	-4.34
24-Apr-2008	08:00:00	-7.67	-0.33	-7.32	-16.86	-3.09	-3.09	-3.09	-3.95
24-Apr-2008	20:00:00	-8.44	-0.57	-7.13	-22.32	-2.40	-3.14	-3.14	-4.85
25-Apr-2008	08:00:00	-9.45	-0.75	-7.58	-26.83	-3.02	-4.04	-4.04	-6.00
25-Apr-2008	20:00:00	-9.97	-1.04	-7.33	-30.32	-3.43	-4.48	-4.48	-6.11
26-Apr-2008	08:00:00	-10.61	-1.20	-7.87	-32.97	-4.54	-5.37	-5.37	-6.91
26-Apr-2008	20:00:00	-11.04	-1.76	-8.14	-34.43	-5.80	-6.21	-6.21	-6.94
27-Apr-2008	08:00:00	-11.71	-2.33	-8.86	-35.44	-7.58	-7.70	-7.70	-7.63
27-Apr-2008	20:00:00	-12.33	-3.64	-9.45	-36.62	-8.65	-8.56	-8.56	-8.04
28-Apr-2008	08:00:00	-12.67	-1.35	-4.74	-37.85	-7.22	-5.53	-5.53	-7.87
28-Apr-2008	20:00:00	-8.18	0.70	-3.52	-35.59	-3.48	-2.12	-2.12	-1.10
29-Apr-2008	08:00:00	-3.09	0.39	-3.76	-35.06	-2.26	-2.54	-2.54	-2.01
29-Apr-2008	20:00:00	-6.62	-0.07	-5.24	-35.04	-2.77	-3.08	-3.08	-4.17
30-Apr-2008	08:00:00	-8.56	-0.36	-6.25	-36.14	-3.62	-3.79	-3.79	-4.08
30-Apr-2008	20:00:00	-9.56	-0.63	-6.69	-37.72	-4.43	-4.35	-4.35	-5.40
1-May-2008	08:00:00	-10.80	-0.79	-7.42	-38.80	-5.77	-5.27	-5.27	-7.04
1-May-2008	20:00:00	-11.59	-1.08	-7.68	-39.75	-6.84	-6.37	-6.37	-7.42
2-May-2008	08:00:00	-12.41	-1.34	-8.85	-40.67	-8.64	-8.17	-8.17	-8.37

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
2-May-2008	20:00:00	-12.98	-1.83	-9.35	-41.45	-9.32	-9.55	-9.55	-8.53
3-May-2008	08:00:00	-13.55	-2.74	-10.00	-42.26	-10.29	-12.59	-12.59	-9.19
3-May-2008	20:00:00	-13.85	-4.40	-10.12	-42.96	-10.66	-14.61	-14.61	-9.27
4-May-2008	08:00:00	-14.22	-5.60	-10.45	-43.77	-11.48	-17.36	-17.36	-9.76
4-May-2008	20:00:00	-14.63	-6.33	-10.71	-44.47	-12.09	-18.95	-18.95	-9.91
5-May-2008	08:00:00	-15.20	-7.77	-11.22	-45.38	-13.07	-20.71	-20.71	-10.55
5-May-2008	20:00:00	-15.69	-8.81	-11.67	-46.09	-13.96	-21.79	-21.79	-10.87
6-May-2008	08:00:00	-16.20	-10.14	-12.30	-46.46	-14.96	-22.88	-22.88	-11.51
6-May-2008	20:00:00	-16.68	-10.78	-12.79	-46.61	-15.81	-23.55	-23.55	-11.81
7-May-2008	08:00:00	-17.16	-11.56	-13.37	-46.59	-16.61	-24.22	-24.22	-12.36
7-May-2008	20:00:00	-17.48	-11.93	-13.72	-46.52	-17.17	-24.51	-24.51	-12.50
8-May-2008	08:00:00	-17.70	-12.51	-14.10	-46.53	-17.65	-24.85	-24.85	-13.04
8-May-2008	20:00:00	-17.92	-12.91	-14.51	-46.52	-18.30	-25.24	-25.24	-13.38
9-May-2008	08:00:00	-17.88	0.59	-8.62	-46.52	-18.36	-19.54	-19.54	-7.39
9-May-2008	20:00:00	-18.00	-0.16	-7.14	-46.51	-14.17	-3.92	-3.92	-6.18
10-May-2008	08:00:00	-18.27	-0.36	-6.64	-46.53	-3.27	-4.35	-4.35	-7.81
10-May-2008	20:00:00	-18.74	-0.93	-8.71	-46.52	-5.24	-6.73	-6.73	-8.62
11-May-2008	08:00:00	-19.17	-1.08	-11.01	-46.55	-6.94	-6.89	-6.89	-9.04
11-May-2008	20:00:00	-18.73	0.77	-8.43	-46.53	-5.23	-4.06	-4.06	-6.35
12-May-2008	08:00:00	-18.94	0.34	-6.85	-46.55	-4.36	-3.55	-3.55	-4.80
12-May-2008	20:00:00	-19.63	-0.17	-8.28	-46.53	-5.39	-4.74	-4.74	-6.52
13-May-2008	08:00:00	-20.48	-0.38	-9.35	-46.53	-6.48	-5.16	-5.16	-8.54
13-May-2008	20:00:00	-21.24	-0.78	-9.41	-46.52	-6.72	-6.76	-6.76	-9.01
14-May-2008	08:00:00	-21.78	-0.96	-10.06	-46.52	-7.87	-7.64	-7.64	-10.17
14-May-2008	20:00:00	-22.15	-1.37	-9.99	-46.53	-8.31	-9.05	-9.05	-10.24
15-May-2008	08:00:00	-22.36	-1.60	-10.77	-46.53	-9.04	-11.27	-11.27	-10.69
15-May-2008	20:00:00	-22.51	-2.80	-11.18	-46.53	-9.40	-13.15	-13.15	-10.69
16-May-2008	08:00:00	-22.30	-1.70	-11.22	-46.54	-8.68	-13.21	-13.21	-10.68
16-May-2008	20:00:00	-22.00	-0.39	-7.72	-46.54	-6.80	-10.54	-10.54	-8.56
17-May-2008	08:00:00	-22.28	-0.60	-5.87	-46.53	-7.76	-9.17	-9.17	-9.10
17-May-2008	20:00:00	-22.15	-0.94	-7.26	-46.53	-8.39	-11.04	-11.04	-8.99
18-May-2008	08:00:00	-21.90	-1.06	-8.58	-46.53	-9.47	-14.57	-14.57	-9.47
18-May-2008	20:00:00	-21.69	0.50	-8.13	-46.53	-3.73	-15.24	-15.24	-9.36
19-May-2008	08:00:00	-21.89	0.32	-4.85	-46.53	-6.04	-8.46	-8.46	-7.27
19-May-2008	20:00:00	-22.02	0.07	-6.10	-46.53	-7.82	-9.02	-9.02	-6.98
20-May-2008	08:00:00	-21.75	0.07	-5.69	-46.54	-8.45	-9.20	-9.20	-7.42
20-May-2008	20:00:00	-21.49	0.18	-5.38	-46.53	-7.25	-9.10	-9.10	-7.43
21-May-2008	08:00:00	-21.63	0.08	-6.12	-46.53	-8.65	-10.31	-10.31	-8.15
21-May-2008	20:00:00	-21.73	-0.11	-6.86	-46.53	-9.57	-13.29	-13.29	-8.19
22-May-2008	08:00:00	-21.99	0.36	-8.99	-46.54	-11.23	-17.16	-17.16	-9.07
22-May-2008	20:00:00	-22.34	-0.18	-10.11	-46.53	-12.33	-19.19	-19.19	-9.25
23-May-2008	08:00:00	-22.77	-0.65	-11.11	-46.53	-14.02	-21.54	-21.54	-10.16
23-May-2008	20:00:00	-23.12	-0.78	-11.98	-46.53	-15.04	-22.87	-22.87	-10.50
24-May-2008	08:00:00	-23.41	-1.37	-12.70	-46.53	-15.85	-23.80	-23.80	-11.06
24-May-2008	20:00:00	-23.65	-1.61	-13.32	-46.53	-16.38	-24.31	-24.31	-11.28
25-May-2008	08:00:00	-24.00	-3.68	-14.04	-46.53	-17.28	-25.25	-25.25	-11.95
25-May-2008	20:00:00	-24.36	-4.89	-14.73	-46.53	-18.00	-26.01	-26.01	-12.09
26-May-2008	08:00:00	-24.60	-6.72	-15.34	-46.52	-18.52	-26.49	-26.49	-12.63
26-May-2008	20:00:00	-24.67	-7.38	-15.85	-46.53	-18.99	-26.67	-26.67	-12.72

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
27-May-2008	08:00:00	-24.78	-8.65	-16.36	-46.53	-19.47	-27.09	-27.09	-13.15
27-May-2008	20:00:00	-24.76	-9.40	-16.84	-46.54	-19.98	-27.37	-27.37	-13.19
28-May-2008	08:00:00	-24.88	-5.03	-13.85	-46.55	-19.49	-26.67	-26.67	-13.05
28-May-2008	20:00:00	-25.19	-1.69	-12.69	-46.54	-19.91	-26.17	-26.17	-11.55
29-May-2008	08:00:00	-25.23	-4.31	-13.99	-46.54	-20.46	-27.28	-27.28	-12.15
29-May-2008	20:00:00	-25.10	-6.45	-15.09	-46.39	-20.34	-27.80	-27.80	-12.26
30-May-2008	08:00:00	-25.09	-8.05	-16.06	-46.39	-20.29	-28.00	-27.82	-13.19
30-May-2008	20:00:00	-25.06	-9.03	-17.09	-46.39	-20.31	-28.21	-28.07	-13.21
31-May-2008	08:00:00	-25.01	-9.64	-17.85	-46.40	-20.25	-28.37	-28.13	-13.54
31-May-2008	20:00:00	-24.72	-10.17	-18.33	-46.40	-20.17	-28.36	-28.03	-13.41
1-Jun-2008	08:00:00	-24.63	-10.79	-18.75	-46.40	-20.53	-28.03	-27.92	-13.70
1-Jun-2008	20:00:00	-24.52	-0.65	-13.32	-46.38	-19.01	-28.39	-1.96	-11.91
2-Jun-2008	08:00:00	-24.60	0.05	-10.82	-46.40	-19.53	-21.37	-4.27	-12.08
2-Jun-2008	20:00:00	-24.55	-1.17	-12.18	-46.39	-19.95	-13.70	-9.73	-11.79
3-Jun-2008	08:00:00	-24.56	-1.83	-13.55	-46.40	-20.18	-19.04	-13.61	-12.44
3-Jun-2008	20:00:00	-24.49	-3.97	-14.53	-46.39	-20.35	-22.33	-15.26	-12.40
4-Jun-2008	08:00:00	-24.43	-5.41	-15.36	-46.41	-20.60	-24.31	-17.24	-12.89
4-Jun-2008	20:00:00	-24.34	-6.26	-16.12	-46.40	-21.03	-25.54	-18.60	-12.75
5-Jun-2008	08:00:00	-24.48	-7.62	-17.09	-46.40	-21.62	-26.56	-20.21	-13.25
5-Jun-2008	20:00:00	-24.76	-8.74	-18.15	-46.40	-22.43	-27.66	-21.62	-13.30
6-Jun-2008	08:00:00	-24.89	-9.91	-19.06	-46.41	-23.03	-29.01	-22.91	-13.96
6-Jun-2008	20:00:00	-25.01	-10.59	-19.88	-46.39	-23.63	-29.79	-23.96	-14.04
7-Jun-2008	08:00:00	-25.05	-11.29	-20.51	-46.40	-24.07	-30.39	-24.79	-14.59
7-Jun-2008	20:00:00	-24.95	-11.83	-21.02	-46.40	-24.59	-30.87	-25.55	-14.64
8-Jun-2008	08:00:00	-24.85	-12.43	-21.42	-46.40	-25.02	-31.20	-26.04	-15.13
8-Jun-2008	20:00:00	-24.70	-12.88	-21.84	-46.41	-25.49	-31.49	-26.57	-15.18
9-Jun-2008	08:00:00	-24.61	-13.41	-22.20	-46.40	-25.94	-31.76	-26.99	-15.64
9-Jun-2008	20:00:00	-24.57	-13.89	-22.65	-46.40	-26.55	-32.05	-27.50	-15.71
10-Jun-2008	08:00:00	-24.57	-14.40	-23.07	-46.41	-27.08	-32.48	-27.85	-16.19
10-Jun-2008	20:00:00	-24.54	-14.86	-23.44	-46.41	-27.63	-32.93	-28.23	-16.32
11-Jun-2008	08:00:00	-24.72	-15.37	-23.94	-46.40	-28.26	-33.37	-28.64	-16.78
11-Jun-2008	20:00:00	-24.98	-15.91	-24.51	-46.40	-28.94	-34.09	-29.22	-17.04
12-Jun-2008	08:00:00	-25.32	-16.46	-25.05	-46.40	-29.61	-34.83	-29.87	-17.50
12-Jun-2008	20:00:00	-25.55	-16.93	-25.53	-46.40	-30.16	-35.69	-30.48	-17.74
13-Jun-2008	08:00:00	-25.79	-17.42	-25.98	-46.41	-30.69	-36.28	-31.05	-18.20
13-Jun-2008	20:00:00	-25.89	-17.85	-26.33	-46.41	-31.08	-36.85	-31.53	-18.44
14-Jun-2008	08:00:00	-25.96	-18.24	-26.66	-46.41	-31.45	-37.04	-31.84	-18.81
14-Jun-2008	20:00:00	-25.88	-18.62	-26.92	-46.41	-31.73	-37.29	-32.08	-19.00
15-Jun-2008	08:00:00	-25.94	-18.99	-27.23	-46.41	-32.06	-37.31	-32.28	-19.31
15-Jun-2008	20:00:00	-25.96	-19.39	-27.50	-46.41	-32.37	-37.58	-32.49	-19.61
16-Jun-2008	08:00:00	-26.10	-19.75	-27.82	-46.41	-32.73	-37.81	-32.74	-19.92
16-Jun-2008	20:00:00	-26.17	-20.13	-28.08	-46.41	-33.01	-38.22	-32.95	-20.08
17-Jun-2008	08:00:00	-26.26	-20.46	-28.36	-46.42	-33.33	-38.51	-33.09	-20.37
17-Jun-2008	20:00:00	-26.34	-20.78	-28.64	-46.41	-33.63	-38.87	-33.29	-20.60
18-Jun-2008	08:00:00	-26.55	-21.15	-28.97	-46.43	-34.05	-39.17	-33.52	-20.94
18-Jun-2008	20:00:00	-26.66	-21.46	-29.24	-46.41	-34.44	-39.68	-33.74	-21.20
19-Jun-2008	08:00:00	-26.89	-21.84	-29.60	-46.42	-34.98	-40.02	-34.03	-21.58
19-Jun-2008	20:00:00	-27.17	-22.16	-29.90	-46.42	-35.39	-40.63	-34.37	-21.89
20-Jun-2008	08:00:00	-27.49	-22.50	-30.26	-46.43	-35.79	-41.28	-34.63	-22.27

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
20-Jun-2008	20:00:00	-27.79	-22.84	-30.59	-46.41	-36.07	-41.99	-34.89	-22.58
21-Jun-2008	08:00:00	-28.04	-23.17	-30.92	-46.41	-36.43	-42.40	-35.15	-22.93
21-Jun-2008	20:00:00	-28.23	-23.49	-31.21	-46.42	-36.66	-42.89	-35.38	-23.20
22-Jun-2008	08:00:00	-28.39	-23.81	-31.49	-46.42	-36.90	-43.11	-35.58	-23.48
22-Jun-2008	20:00:00	-28.52	-24.09	-31.77	-46.42	-37.11	-43.36	-35.78	-23.71
23-Jun-2008	08:00:00	-28.69	-24.41	-32.06	-46.43	-37.35	-43.53	-35.99	-23.98
23-Jun-2008	20:00:00	-28.84	-24.70	-32.32	-46.42	-37.59	-43.87	-36.26	-24.22
24-Jun-2008	08:00:00	-29.09	-25.02	-32.61	-46.42	-37.88	-44.13	-36.67	-24.53
24-Jun-2008	20:00:00	-29.35	-25.33	-32.91	-46.42	-38.17	-44.64	-37.13	-24.82
25-Jun-2008	08:00:00	-29.61	-25.64	-33.18	-46.42	-38.45	-45.08	-37.52	-25.13
25-Jun-2008	20:00:00	-29.72	-25.91	-33.41	-46.42	-38.53	-45.59	-37.68	-25.32
26-Jun-2008	08:00:00	-29.83	-26.17	-33.61	-46.43	-38.71	-45.74	-37.74	-25.57
26-Jun-2008	20:00:00	-29.84	-26.41	-33.78	-46.42	-38.79	-46.01	-37.76	-25.76
27-Jun-2008	08:00:00	-29.94	-26.71	-33.98	-46.42	-38.98	-46.04	-37.87	-25.99
27-Jun-2008	20:00:00	-30.01	-26.97	-34.16	-46.42	-39.11	-46.35	-37.97	-26.21
28-Jun-2008	08:00:00	-23.27	-27.19	-33.70	-46.43	-39.28	-46.54	-38.05	-23.75
28-Jun-2008	20:00:00	-23.89	-27.46	-33.79	-46.42	-39.39	-46.86	-38.09	-24.09
29-Jun-2008	08:00:00	-24.46	-27.76	-34.04	-46.43	-39.57	-47.05	-38.24	-24.50
29-Jun-2008	20:00:00	-24.83	-28.03	-34.24	-46.42	-39.69	-47.37	-38.34	-24.87
30-Jun-2008	08:00:00	-24.90	-9.04	-9.06	-46.41	-39.67	-47.49	-36.20	-7.80
30-Jun-2008	20:00:00	-25.14	-11.74	-13.07	-46.42	-39.49	-39.93	-33.84	-11.43
1-Jul-2008	08:00:00	-25.52	-13.38	-15.63	-46.43	-39.51	-39.46	-34.06	-14.13
1-Jul-2008	20:00:00	-25.96	-14.78	-18.80	-46.42	-39.59	-40.89	-34.49	-15.82
2-Jul-2008	08:00:00	-26.45	-15.94	-21.61	-46.43	-39.82	-42.87	-34.97	-17.55
2-Jul-2008	20:00:00	-26.90	-17.00	-23.16	-46.41	-39.95	-44.11	-35.46	-18.82
3-Jul-2008	08:00:00	-27.39	-17.93	-24.24	-46.43	-40.14	-45.13	-35.97	-20.06
3-Jul-2008	20:00:00	-27.73	-18.85	-24.87	-46.42	-40.27	-46.02	-36.62	-20.96
4-Jul-2008	08:00:00	-28.04	-19.66	-25.51	-46.43	-40.45	-46.69	-37.20	-21.87
4-Jul-2008	20:00:00	-28.22	-20.47	-26.01	-46.44	-40.57	-47.34	-37.54	-22.54
5-Jul-2008	08:00:00	-28.48	-21.17	-26.58	-46.43	-40.74	-47.73	-37.82	-23.20
5-Jul-2008	20:00:00	-28.66	-21.89	-27.06	-46.42	-40.85	-48.20	-38.04	-23.74
6-Jul-2008	08:00:00	-28.86	-22.05	-27.48	-46.42	-40.98	-48.46	-38.30	-24.21
6-Jul-2008	20:00:00	-28.92	1.51	-21.95	-46.42	-41.12	-48.78	-38.43	-24.71
7-Jul-2008	08:00:00	-29.05	0.96	-3.30	-46.42	-29.19	-48.80	-24.11	-24.78
7-Jul-2008	20:00:00	-29.09	0.10	-5.57	-46.41	-21.67	-33.72	-20.46	-24.53
8-Jul-2008	08:00:00	-29.19	-0.24	-7.01	-46.42	-20.95	-31.02	-21.52	-24.88
8-Jul-2008	20:00:00	-29.25	1.03	-7.18	-46.43	-16.21	-33.53	-19.65	-25.09
9-Jul-2008	08:00:00	-29.34	0.54	-6.86	-46.42	-9.46	-33.24	-12.25	-25.19
9-Jul-2008	20:00:00	-29.38	-0.66	-9.26	-46.42	-10.79	-28.27	-11.91	-25.06
10-Jul-2008	08:00:00	-29.47	0.89	-8.11	-46.41	-9.92	-27.37	-8.89	-23.84
10-Jul-2008	20:00:00	-29.54	-0.44	-9.78	-46.77	-14.23	-26.23	-10.71	-23.27
11-Jul-2008	08:00:00	-29.60	0.03	-9.69	-46.66	-16.52	-28.68	-11.97	-23.31
11-Jul-2008	20:00:00	-29.68	-1.05	-12.45	-46.67	-18.25	-31.43	-13.97	-23.57
12-Jul-2008	08:00:00	-29.82	-0.77	-14.21	-46.27	-20.32	-34.35	-16.51	-23.87
12-Jul-2008	20:00:00	-29.92	-1.67	-14.66	-46.81	-21.24	-36.61	-18.14	-24.18
13-Jul-2008	08:00:00	-29.96	-2.25	-17.05	-46.83	-22.26	-37.80	-19.63	-24.34
13-Jul-2008	20:00:00	-29.91	-6.40	-19.43	-46.72	-23.02	-38.60	-20.59	-24.48
14-Jul-2008	08:00:00	-29.96	-9.52	-21.12	-46.78	-23.59	-39.09	-21.66	-24.66
14-Jul-2008	20:00:00	-30.10	-10.83	-22.58	-46.79	-24.44	-39.77	-22.88	-25.05



Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
15-Jul-2008	08:00:00	-30.29	-11.23	-23.95	-46.68	-25.12	-40.61	-24.11	-25.51
15-Jul-2008	20:00:00	-30.53	-12.56	-25.16	-46.50	-25.70	-41.75	-25.15	-25.93
16-Jul-2008	08:00:00	-30.75	-13.56	-25.84	-46.31	-26.15	-42.51	-26.13	-26.28
16-Jul-2008	20:00:00	-30.96	-14.63	-26.32	-46.59	-26.57	-43.23	-26.96	-26.52
17-Jul-2008	08:00:00	-31.15	-15.65	-26.76	-46.31	-26.95	-43.80	-27.72	-26.71
17-Jul-2008	20:00:00	-31.29	-16.83	-27.17	-46.74	-27.39	-44.24	-28.38	-26.85
18-Jul-2008	08:00:00	-31.40	-17.40	-27.53	-46.52	-27.80	-44.59	-28.92	-26.98
18-Jul-2008	20:00:00	-31.48	-18.36	-27.88	-46.73	-28.10	-44.90	-29.45	-27.10
19-Jul-2008	08:00:00	-31.59	-18.79	-28.16	-46.72	-28.52	-45.13	-29.90	-27.21
19-Jul-2008	20:00:00	-31.62	-19.66	-28.45	-46.72	-28.84	-45.41	-30.28	-27.29
20-Jul-2008	08:00:00	-31.65	-20.20	-28.70	-46.73	-29.14	-45.59	-30.65	-27.39
20-Jul-2008	20:00:00	-31.64	-20.81	-28.94	-46.65	-29.40	-45.74	-30.97	-27.47
21-Jul-2008	08:00:00	-31.62	-21.27	-29.13	-46.61	-29.62	-45.78	-31.18	-27.51
21-Jul-2008	20:00:00	-31.69	-21.80	-29.41	-46.63	-29.95	-45.76	-31.55	-27.61
22-Jul-2008	08:00:00	-31.75	-22.23	-29.64	-46.64	-30.25	-46.03	-31.83	-27.71
22-Jul-2008	20:00:00	-31.82	-22.71	-29.92	-46.63	-30.58	-46.23	-32.18	-27.83
23-Jul-2008	08:00:00	-31.89	-22.87	-30.18	-46.68	-30.91	-46.50	-32.48	-27.95
23-Jul-2008	20:00:00	-31.92	-23.64	-30.40	-46.61	-31.15	-46.75	-32.76	-28.05
24-Jul-2008	08:00:00	-32.01	-23.45	-30.70	-46.69	-31.47	-46.87	-33.13	-28.23
24-Jul-2008	20:00:00	-32.17	-24.04	-31.00	-46.70	-31.82	-47.09	-33.62	-28.43
25-Jul-2008	08:00:00	-32.34	-24.48	-31.34	-46.71	-32.22	-47.44	-34.14	-28.64
25-Jul-2008	20:00:00	-32.46	-25.29	-31.65	-46.73	-32.57	-47.84	-34.61	-28.84
26-Jul-2008	08:00:00	-32.57	-25.69	-31.93	-46.71	-32.86	-48.17	-34.95	-29.01
26-Jul-2008	20:00:00	-32.59	-26.15	-32.13	-46.61	-33.08	-48.42	-35.22	-29.13
27-Jul-2008	08:00:00	-32.64	-26.50	-32.32	-46.59	-33.34	-48.49	-35.48	-29.28
27-Jul-2008	20:00:00	-32.63	-26.80	-32.49	-46.54	-33.57	-48.62	-35.70	-29.42
28-Jul-2008	08:00:00	-30.45	-22.78	-28.26	-25.60	-33.83	-48.59	-35.76	-23.03
28-Jul-2008	20:00:00	-30.65	-23.58	-28.27	-34.65	-34.17	-48.24	-36.56	-23.50
29-Jul-2008	08:00:00	-30.89	-24.15	-28.66	-41.96	-34.56	-48.35	-36.92	-23.98
29-Jul-2008	20:00:00	-31.08	-24.75	-29.06	-46.57	-34.85	-48.63	-37.93	-24.45
30-Jul-2008	08:00:00	-31.29	-25.23	-29.47	-46.57	-35.18	-48.80	-38.24	-24.90
30-Jul-2008	20:00:00	-31.41	-25.67	-29.84	-46.53	-35.39	-48.97	-38.54	-25.25
31-Jul-2008	08:00:00	-31.54	-26.07	-30.20	-46.53	-35.64	-49.00	-38.74	-25.62
31-Jul-2008	20:00:00	-27.39	-26.25	-29.46	-45.80	-35.79	-49.17	-38.93	-25.96
1-Aug-2008	08:00:00	-27.56	-26.70	-29.81	-45.82	-36.02	-49.23	-39.17	-26.31
1-Aug-2008	20:00:00	-27.75	-27.18	-30.16	-45.81	-36.29	-49.50	-39.47	-26.65
2-Aug-2008	08:00:00	-27.90	-27.59	-30.43	-45.81	-36.49	-49.72	-39.56	-26.93
2-Aug-2008	20:00:00	-28.01	-28.00	-30.67	-45.80	-36.70	-49.87	-39.80	-27.22
3-Aug-2008	08:00:00	-28.16	-28.13	-30.99	-45.82	-36.99	-49.99	-39.30	-27.55
3-Aug-2008	20:00:00	-28.35	-28.40	-31.29	-45.84	-37.26	-50.28	-39.87	-27.87
4-Aug-2008	08:00:00	-28.54	-28.74	-31.59	-45.88	-37.54	-50.50	-40.18	-28.19
4-Aug-2008	20:00:00	-28.73	-29.51	-31.87	-45.86	-37.74	-50.67	-40.80	-28.46
5-Aug-2008	08:00:00	-28.87	-29.65	-32.08	-45.87	-37.92	-50.86	-40.73	-28.70
5-Aug-2008	20:00:00	-29.02	-30.16	-32.33	-45.85	-38.07	-51.01	-41.18	-28.95
6-Aug-2008	08:00:00	-29.10	-30.41	-32.49	-45.83	-38.23	-51.13	-41.32	-29.17
6-Aug-2008	20:00:00	-29.19	-30.67	-32.69	-45.81	-38.32	-50.34	-41.62	-29.42
7-Aug-2008	08:00:00	-29.26	-30.88	-32.85	-45.81	-38.48	-50.28	-41.77	-29.64
7-Aug-2008	20:00:00	-29.33	-31.04	-33.01	-45.78	-38.55	-50.28	-41.97	-30.21
8-Aug-2008	08:00:00	-29.37	-31.28	-33.18	-45.78	-38.69	-50.28	-42.15	-30.41

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
8-Aug-2008	20:00:00	-29.49	-31.49	-33.41	-45.78	-38.86	-50.29	-42.26	-30.63
9-Aug-2008	08:00:00	-29.61	-31.57	-33.63	-45.80	-39.11	-50.28	-42.15	-30.92
9-Aug-2008	20:00:00	-29.78	-31.93	-33.84	-45.81	-39.28	-50.28	-42.76	-31.10
10-Aug-2008	08:00:00	-29.92	-32.14	-34.04	-45.80	-39.47	-50.28	-42.78	-31.30
10-Aug-2008	20:00:00	-30.03	-32.34	-34.24	-45.79	-39.62	-50.29	-43.47	-31.51
11-Aug-2008	08:00:00	-30.14	-32.54	-31.43	-45.79	-39.80	-50.28	-43.54	-29.55
11-Aug-2008	20:00:00	-30.25	-32.73	-31.67	-45.79	-39.98	-50.29	-43.71	-29.88
12-Aug-2008	08:00:00	-30.40	-32.51	-32.03	-45.81	-40.26	-50.28	-43.81	-30.31
12-Aug-2008	20:00:00	-30.59	-33.09	-32.37	-45.80	-40.47	-50.29	-44.47	-30.62
13-Aug-2008	08:00:00	-30.71	-33.22	-32.72	-45.82	-40.69	-50.29	-44.39	-30.99
13-Aug-2008	20:00:00	-30.83	-33.43	-33.03	-45.78	-40.87	-50.28	-44.97	-31.29
14-Aug-2008	08:00:00	-30.94	-33.38	-33.40	-45.82	-41.08	-50.28	-44.97	-31.67
14-Aug-2008	20:00:00	-31.15	-33.29	-33.76	-45.83	-41.35	-50.29	-45.38	-31.93
15-Aug-2008	08:00:00	-31.35	-33.48	-34.11	-45.88	-41.61	-50.27	-45.76	-32.17
15-Aug-2008	20:00:00	-31.54	-33.87	-32.91	-24.45	-41.82	-50.28	-46.05	-31.19
16-Aug-2008	08:00:00	-31.72	-33.80	-31.98	-35.87	-42.05	-50.29	-46.16	-30.87
16-Aug-2008	20:00:00	-31.92	-34.36	-32.31	-40.44	-42.22	-50.28	-46.57	-31.17
17-Aug-2008	08:00:00	-32.07	-34.10	-32.71	-44.04	-42.45	-50.27	-45.69	-31.50
17-Aug-2008	20:00:00	-32.28	-34.68	-33.10	-45.90	-42.62	-50.28	-45.73	-31.82
18-Aug-2008	08:00:00	-32.45	-34.43	-33.50	-45.95	-42.83	-50.29	-45.61	-32.15
18-Aug-2008	20:00:00	-32.65	-35.01	-33.84	-45.89	-43.01	-50.28	-45.95	-32.44
19-Aug-2008	08:00:00	-32.87	-34.84	-34.27	-45.94	-43.23	-50.29	-45.60	-32.69
19-Aug-2008	20:00:00	-33.04	-35.18	-34.63	-45.92	-43.38	-50.42	-45.84	-32.93
20-Aug-2008	08:00:00	-33.25	-35.04	-35.20	-45.97	-43.58	-50.60	-45.63	-33.15
20-Aug-2008	20:00:00	-33.50	-35.23	-35.76	-45.98	-43.75	-49.93	-45.73	-33.48
21-Aug-2008	08:00:00	-33.69	-35.39	-36.26	-45.72	-43.93	-50.26	-45.67	-33.62
21-Aug-2008	20:00:00	-33.97	-35.78	-36.69	-45.86	-44.04	-50.12	-46.00	-34.12
22-Aug-2008	08:00:00	-34.24	-35.70	-36.97	-45.54	-44.15	-50.48	-45.67	-34.17
22-Aug-2008	20:00:00	-34.39	-36.22	-37.30	-45.98	-44.21	-50.11	-46.08	-34.81
23-Aug-2008	08:00:00	-34.57	-36.12	-37.63	-45.80	-44.31	-50.53	-46.02	-35.06
23-Aug-2008	20:00:00	-34.64	-36.65	-37.90	-46.01	-44.36	-50.35	-46.15	-35.37
24-Aug-2008	08:00:00	-34.71	-36.78	-38.17	-46.00	-44.45	-50.61	-46.12	-35.58
24-Aug-2008	20:00:00	-34.70	-36.79	-38.39	-45.89	-44.48	-50.60	-45.97	-35.79
25-Aug-2008	08:00:00	-34.77	-36.93	-38.67	-45.89	-44.55	-50.45	-45.96	-36.00
25-Aug-2008	20:00:00	-34.81	-37.00	-38.93	-45.86	-44.61	-50.58	-45.91	-36.22
26-Aug-2008	08:00:00	-34.89	-37.18	-39.20	-45.89	-44.70	-50.59	-45.95	-36.40
26-Aug-2008	20:00:00	-34.98	-37.38	-39.51	-45.92	-44.79	-50.60	-45.97	-36.57
27-Aug-2008	08:00:00	-35.07	-37.47	-39.79	-45.89	-44.24	-50.56	-45.93	-36.81
27-Aug-2008	20:00:00	-35.04	-37.13	-35.26	-45.87	-44.25	-50.60	-45.92	-31.75
28-Aug-2008	08:00:00	-34.68	-37.30	-35.46	-45.86	-44.26	-50.58	-45.87	-32.04
28-Aug-2008	20:00:00	-34.36	-37.50	-36.35	-45.84	-44.25	-50.58	-45.87	-32.38
29-Aug-2008	08:00:00	-34.18	-37.67	-37.01	-45.87	-44.27	-50.54	-45.91	-32.69
29-Aug-2008	20:00:00	-34.06	-37.80	-37.58	-45.86	-44.26	-50.57	-45.93	-33.08
30-Aug-2008	08:00:00	-34.01	-38.04	-38.10	-45.93	-44.27	-50.56	-45.98	-33.01
30-Aug-2008	20:00:00	-34.01	-38.19	-32.51	-45.94	-44.26	-50.58	-45.96	-33.71
31-Aug-2008	08:00:00	-34.10	-38.42	-32.12	-45.99	-44.27	-50.59	-45.98	-34.05
31-Aug-2008	20:00:00	-34.28	-38.58	-32.74	-46.00	-44.28	-50.26	-45.95	-34.87
1-Sep-2008	08:00:00	-34.34	-38.74	-33.34	-46.02	-44.28	-50.47	-45.85	-34.85
1-Sep-2008	20:00:00	-34.44	-38.93	-33.92	-46.01	-44.28	-50.09	-45.86	-35.61

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
2-Sep-2008	08:00:00	-34.53	-39.08	-34.53	-46.02	-44.28	-50.60	-45.84	-35.85
2-Sep-2008	20:00:00	-34.52	-39.15	-35.44	-45.94	-44.27	-50.61	-45.84	-36.19
3-Sep-2008	08:00:00	-34.59	-39.30	-36.23	-45.96	-44.45	-50.57	-45.85	-36.46
3-Sep-2008	20:00:00	-34.60	-39.45	-36.82	-45.90	-44.63	-50.57	-45.85	-36.80
4-Sep-2008	08:00:00	-34.74	-39.74	-37.36	-45.98	-43.93	-50.52	-45.84	-36.90
4-Sep-2008	20:00:00	-34.87	-39.97	-37.89	-45.95	-44.28	-50.57	-45.86	-37.35
5-Sep-2008	08:00:00	-35.01	-40.24	-38.41	-45.98	-43.92	-50.58	-45.85	-37.42
5-Sep-2008	20:00:00	-29.66	-38.96	-19.67	-45.87	-44.41	-50.58	-45.84	-32.99
6-Sep-2008	08:00:00	-29.59	-7.08	-2.82	-3.01	-44.19	-50.54	-45.84	-10.42
6-Sep-2008	20:00:00	-29.83	-1.18	-7.35	-6.22	-44.39	-50.37	-14.56	-9.71
7-Sep-2008	08:00:00	-30.29	-6.54	-9.48	-5.27	-43.89	-50.51	-17.13	-11.71
7-Sep-2008	20:00:00	-30.64	-10.45	-10.97	-14.04	-43.88	-50.47	-20.50	-14.53
8-Sep-2008	08:00:00	-30.99	-12.72	-12.78	-20.10	-43.63	-50.42	-22.96	-16.35
8-Sep-2008	20:00:00	-31.25	-14.49	-15.04	-23.34	-44.14	-50.09	-24.65	-18.19
9-Sep-2008	08:00:00	-31.46	-15.79	-17.30	-27.09	-44.13	-50.59	-26.01	-19.31
9-Sep-2008	20:00:00	-31.66	-16.96	-19.42	-30.48	-44.11	-50.60	-27.27	-20.14
10-Sep-2008	08:00:00	-31.91	-18.03	-20.74	-33.78	-44.11	-50.59	-28.46	-20.64
10-Sep-2008	20:00:00	-32.15	-18.97	-22.22	-36.91	-44.13	-50.58	-29.62	-21.04
11-Sep-2008	08:00:00	-32.50	-19.84	-23.45	-39.78	-43.99	-50.48	-30.66	-21.67
11-Sep-2008	20:00:00	-32.85	-20.61	-24.73	-41.79	-44.13	-50.13	-31.66	-22.60
12-Sep-2008	08:00:00	-33.20	-21.23	-25.50	-43.67	-44.13	-50.56	-32.51	-23.18
12-Sep-2008	20:00:00	-33.41	-21.82	-26.43	-45.26	-44.05	-50.60	-33.22	-23.64
13-Sep-2008	08:00:00	-33.60	-22.36	-27.05	-46.10	-44.01	-50.55	-33.88	-24.07
13-Sep-2008	20:00:00	-33.80	-22.92	-27.74	-45.94	-43.97	-50.53	-34.52	-24.53
14-Sep-2008	08:00:00	-34.01	-23.45	-28.36	-45.92	-43.96	-50.46	-35.16	-24.95
14-Sep-2008	20:00:00	-34.13	-23.96	-28.93	-45.85	-43.91	-50.46	-36.07	-25.34
15-Sep-2008	08:00:00	-34.31	-24.48	-29.64	-45.88	-43.93	-50.40	-37.16	-25.84
15-Sep-2008	20:00:00	-34.47	-25.03	-30.36	-45.92	-43.96	-50.43	-38.11	-26.38
16-Sep-2008	08:00:00	-34.69	-25.56	-30.56	-46.01	-44.04	-50.47	-38.93	-26.76
16-Sep-2008	20:00:00	-34.90	-26.05	-31.20	-46.00	-44.10	-50.56	-39.63	-27.04
17-Sep-2008	08:00:00	-35.09	-26.52	-31.82	-45.89	-44.11	-50.59	-40.31	-27.39
17-Sep-2008	20:00:00	-35.33	-26.98	-32.60	-46.01	-44.12	-50.59	-40.95	-28.04
18-Sep-2008	08:00:00	-35.50	-27.41	-32.90	-45.91	-44.11	-50.59	-41.58	-28.40
18-Sep-2008	20:00:00	-35.71	-27.91	-33.50	-45.61	-44.09	-50.58	-42.21	-28.68
19-Sep-2008	08:00:00	-35.94	-28.42	-34.06	-45.55	-43.63	-50.39	-42.90	-28.81
19-Sep-2008	20:00:00	-36.20	-28.84	-34.96	-45.81	-43.86	-50.10	-43.54	-29.51
20-Sep-2008	08:00:00	-36.40	-29.23	-35.73	-45.86	-43.93	-50.34	-44.11	-30.05
20-Sep-2008	20:00:00	-36.63	-29.58	-36.60	-46.00	-44.06	-50.37	-44.79	-30.53
21-Sep-2008	08:00:00	-36.81	-29.98	-37.07	-45.66	-43.63	-50.54	-45.42	-30.72
21-Sep-2008	20:00:00	-37.03	-30.33	-37.67	-45.72	-43.70	-50.11	-45.69	-31.13
22-Sep-2008	08:00:00	-37.24	-30.66	-38.24	-45.54	-43.61	-50.22	-46.01	-31.31
22-Sep-2008	20:00:00	-37.43	-31.03	-38.82	-45.64	-43.63	-50.10	-46.30	-31.71
23-Sep-2008	08:00:00	-37.65	-31.38	-39.37	-45.55	-43.61	-50.14	-45.88	-32.09
23-Sep-2008	20:00:00	-37.90	-31.71	-40.04	-45.87	-43.82	-50.12	-45.89	-32.71
24-Sep-2008	08:00:00	-38.12	-32.00	-40.47	-45.86	-43.88	-50.37	-45.88	-33.19
24-Sep-2008	20:00:00	-38.30	-32.25	-41.29	-46.03	-44.13	-50.29	-45.88	-34.05
25-Sep-2008	08:00:00	-38.39	-32.44	-41.80	-45.98	-44.06	-50.60	-45.86	-34.50
25-Sep-2008	20:00:00	-38.44	-32.69	-42.07	-45.86	-43.94	-50.56	-45.85	-34.82
26-Sep-2008	08:00:00	-38.52	-32.93	-42.44	-45.86	-43.93	-50.44	-45.85	-35.23

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
26-Sep-2008	20:00:00	-38.59	-0.10	-4.74	-9.71	-43.96	-50.44	-42.84	-4.86
27-Sep-2008	08:00:00	-38.61	-1.09	-3.68	-19.61	-26.83	-33.57	-37.65	-7.47
27-Sep-2008	20:00:00	-38.59	-0.58	-6.43	-23.30	-26.83	-39.18	-35.91	-10.70
28-Sep-2008	08:00:00	-38.60	0.49	-8.77	-26.47	-28.02	-43.77	-36.22	-5.07
28-Sep-2008	20:00:00	-38.64	-1.44	-10.69	-31.69	-29.56	-46.30	-35.05	-7.82
29-Sep-2008	08:00:00	-38.68	-0.18	-11.47	-35.55	-30.61	-48.04	-35.00	-9.25
29-Sep-2008	20:00:00	-38.71	-0.91	-13.32	-39.69	-31.96	-49.82	-35.54	-11.78
30-Sep-2008	08:00:00	-38.74	-1.23	-13.16	-43.37	-33.33	-50.68	-37.24	-13.94
30-Sep-2008	20:00:00	-38.62	-1.82	-14.71	-45.62	-33.75	-50.59	-38.12	-15.20
1-Oct-2008	08:00:00	-38.54	-1.44	-16.55	-45.76	-34.48	-50.46	-38.80	-14.84
1-Oct-2008	20:00:00	-38.44	-3.81	-18.77	-45.73	-35.05	-50.42	-39.34	-15.90
2-Oct-2008	08:00:00	-38.58	-8.32	-20.88	-45.80	-35.65	-50.39	-39.91	-17.39
2-Oct-2008	20:00:00	-38.72	-9.69	-22.56	-45.82	-36.28	-50.51	-40.50	-18.74
3-Oct-2008	08:00:00	-38.86	-11.08	-23.46	-45.91	-36.96	-50.55	-41.10	-20.00
3-Oct-2008	20:00:00	-39.00	-12.09	-24.73	-45.97	-37.62	-50.58	-41.70	-21.04
4-Oct-2008	08:00:00	-39.18	-13.29	-25.84	-46.02	-38.07	-50.31	-42.27	-21.41
4-Oct-2008	20:00:00	-39.35	-14.39	-26.85	-46.00	-38.43	-50.09	-42.87	-22.47
5-Oct-2008	08:00:00	-39.54	-15.33	-27.68	-45.60	-38.98	-50.18	-43.39	-22.96
5-Oct-2008	20:00:00	-39.71	-16.22	-28.87	-46.02	-39.91	-50.12	-43.89	-24.11
6-Oct-2008	08:00:00	-39.87	-17.08	-29.20	-45.77	-40.06	-50.56	-44.53	-24.59
6-Oct-2008	20:00:00	-40.02	-17.93	-29.91	-45.64	-40.56	-50.22	-45.07	-25.14
7-Oct-2008	08:00:00	-40.19	-18.76	-30.63	-45.57	-41.12	-50.10	-45.60	-25.35
7-Oct-2008	20:00:00	-40.36	-19.48	-31.76	-46.05	-42.08	-50.12	-45.81	-26.38
8-Oct-2008	08:00:00	-40.47	-20.14	-32.31	-46.04	-42.53	-50.61	-46.03	-26.81
8-Oct-2008	20:00:00	-40.51	-20.75	-32.76	-45.91	-42.85	-50.59	-46.17	-27.12
9-Oct-2008	08:00:00	-40.56	-21.24	-33.24	-45.90	-43.26	-50.50	-45.87	-27.48
9-Oct-2008	20:00:00	-40.67	-21.77	-33.76	-45.91	-43.64	-50.48	-45.87	-27.86
10-Oct-2008	08:00:00	-40.79	-22.24	-34.35	-45.99	-43.90	-50.50	-45.88	-28.29
10-Oct-2008	20:00:00	-40.96	-22.72	-34.97	-46.03	-43.71	-50.58	-45.90	-28.64
11-Oct-2008	08:00:00	-41.15	-23.23	-35.61	-45.94	-43.72	-50.60	-45.92	-28.69
11-Oct-2008	20:00:00	-41.43	-23.75	-36.19	-45.58	-43.62	-50.31	-45.94	-28.87
12-Oct-2008	08:00:00	-41.69	-24.25	-36.81	-45.58	-43.61	-50.12	-45.99	-29.21
12-Oct-2008	20:00:00	-41.94	-24.73	-37.41	-45.61	-43.66	-50.11	-46.00	-29.69
13-Oct-2008	08:00:00	-42.17	-25.18	-38.13	-45.88	-43.83	-50.14	-45.99	-30.21
13-Oct-2008	20:00:00	-42.29	-25.61	-38.92	-46.06	-44.14	-50.42	-45.93	-30.79
14-Oct-2008	08:00:00	-42.41	-25.99	-39.34	-46.05	-44.13	-50.60	-45.91	-31.09
14-Oct-2008	20:00:00	-42.50	-26.37	-39.67	-45.93	-44.01	-50.59	-45.88	-31.30
15-Oct-2008	08:00:00	-42.55	-26.75	-40.10	-45.94	-44.01	-50.50	-45.88	-31.60
15-Oct-2008	20:00:00	-42.61	-27.12	-40.47	-45.88	-43.97	-50.51	-45.86	-31.86
16-Oct-2008	08:00:00	-42.66	-27.48	-40.83	-45.88	-43.97	-50.47	-45.87	-32.11
16-Oct-2008	20:00:00	-42.73	-27.83	-41.16	-45.85	-43.94	-50.47	-45.87	-32.36
17-Oct-2008	08:00:00	-42.75	-28.19	-41.55	-45.90	-43.95	-50.41	-45.86	-32.69
17-Oct-2008	20:00:00	-42.87	-28.54	-41.91	-45.90	-43.95	-50.47	-45.88	-33.00
18-Oct-2008	08:00:00	-42.94	-14.91	-3.00	-45.89	-43.95	-50.47	-45.86	-10.78
18-Oct-2008	20:00:00	-42.99	-15.87	-4.63	-45.94	-43.97	-50.46	-45.87	-14.09
19-Oct-2008	08:00:00	-43.11	-16.88	-10.28	-46.04	-44.04	-50.53	-45.89	-16.34
19-Oct-2008	20:00:00	-43.23	-17.75	-12.00	-46.06	-44.14	-50.61	-45.91	-17.97
20-Oct-2008	08:00:00	-42.81	-18.61	-14.05	-45.83	-44.14	-50.35	-45.93	-19.37
20-Oct-2008	20:00:00	-42.83	-19.31	-15.79	-46.07	-44.08	-50.12	-45.89	-20.41

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
21-Oct-2008	08:00:00	-42.83	-19.94	-17.90	-46.03	-44.04	-50.61	-45.88	-21.31
21-Oct-2008	20:00:00	-42.84	-20.55	-19.85	-46.02	-44.02	-50.60	-45.87	-22.23
22-Oct-2008	08:00:00	-42.82	-21.22	-21.86	-45.62	-43.93	-50.59	-45.96	-23.14
22-Oct-2008	20:00:00	-42.83	-21.88	-23.02	-45.64	-43.64	-50.11	-46.03	-23.64
23-Oct-2008	08:00:00	-42.82	-22.56	-24.42	-45.66	-43.65	-50.13	-45.87	-24.50
23-Oct-2008	20:00:00	-42.82	-23.20	-25.94	-45.93	-43.89	-50.12	-45.92	-25.61
24-Oct-2008	08:00:00	-42.86	-23.72	-27.04	-46.11	-44.16	-50.44	-46.10	-26.40
24-Oct-2008	20:00:00	-42.87	-24.20	-27.71	-45.99	-44.04	-50.59	-46.00	-26.72
25-Oct-2008	08:00:00	-42.89	-24.54	-28.18	-45.87	-43.94	-50.48	-45.89	-27.00
25-Oct-2008	20:00:00	-42.88	-24.86	-28.69	-45.84	-43.91	-50.37	-45.85	-27.33
26-Oct-2008	08:00:00	-42.87	-25.28	-29.38	-45.90	-43.94	-50.35	-45.87	-27.75
26-Oct-2008	20:00:00	-42.87	-25.70	-30.12	-45.89	-43.94	-50.38	-45.89	-28.10
27-Oct-2008	08:00:00	-42.88	-26.07	-30.71	-45.88	-43.92	-50.38	-45.86	-28.44
27-Oct-2008	20:00:00	-42.87	-26.45	-18.69	-45.91	-43.94	-50.37	-45.89	-28.05
28-Oct-2008	08:00:00	-42.90	-26.64	-15.60	-45.88	-43.94	-50.40	-45.86	-27.10
28-Oct-2008	20:00:00	-42.88	-27.01	-18.69	-45.93	-43.97	-50.38	-45.89	-27.67
29-Oct-2008	08:00:00	-42.87	-27.39	-21.02	-45.96	-43.99	-50.41	-45.90	-28.33
29-Oct-2008	20:00:00	-42.87	-27.78	-22.92	-46.01	-44.03	-50.44	-45.94	-28.94
30-Oct-2008	08:00:00	-42.87	-28.30	-24.89	-45.67	-43.64	-50.48	-45.59	-29.06
30-Oct-2008	20:00:00	-42.87	-28.80	-25.86	-45.66	-43.64	-50.08	-45.60	-29.55
31-Oct-2008	08:00:00	-42.88	-29.26	-27.05	-45.69	-43.64	-50.10	-45.59	-29.99
31-Oct-2008	20:00:00	-42.91	-29.63	-28.46	-46.14	-44.18	-50.08	-46.11	-30.85
1-Nov-2008	08:00:00	-42.90	-29.93	-29.21	-46.11	-44.13	-50.57	-46.08	-31.12
1-Nov-2008	20:00:00	-42.86	-30.27	-29.90	-46.04	-44.06	-50.53	-46.00	-31.34
2-Nov-2008	08:00:00	-42.85	-30.61	-30.68	-46.12	-44.13	-50.45	-46.07	-31.72
2-Nov-2008	20:00:00	-42.86	-30.95	-31.56	-46.16	-44.16	-50.52	-46.09	-32.03
3-Nov-2008	08:00:00	-42.86	-31.31	-32.27	-46.12	-44.12	-50.54	-46.07	-32.31
3-Nov-2008	20:00:00	-42.87	-31.59	-32.82	-46.17	-44.17	-50.53	-46.09	-32.57
4-Nov-2008	08:00:00	-42.88	-6.73	-6.65	-46.13	-44.07	-50.55	-46.00	-4.66
4-Nov-2008	20:00:00	-42.88	0.49	-1.72	-46.00	-43.98	-50.49	-45.92	-2.81
5-Nov-2008	08:00:00	-42.87	0.11	-1.67	-45.95	-43.93	-50.41	-45.87	-3.57
5-Nov-2008	20:00:00	-42.87	-0.23	-2.16	-45.95	-43.93	-50.34	-45.74	-5.39
6-Nov-2008	08:00:00	-42.88	-0.19	-2.34	-45.91	-43.91	-50.35	-45.19	-7.57
6-Nov-2008	20:00:00	-42.89	-0.60	-4.39	-45.93	-43.91	-50.30	-45.22	-9.36
7-Nov-2008	08:00:00	-42.89	-1.23	-8.06	-45.92	-43.91	-50.31	-45.40	-11.07
7-Nov-2008	20:00:00	-42.91	-3.09	-9.93	-45.91	-43.91	-50.33	-45.59	-12.03
8-Nov-2008	08:00:00	-42.93	-6.35	-11.49	-45.91	-43.91	-50.30	-45.80	-13.22
8-Nov-2008	20:00:00	-35.27	0.56	-10.36	-45.85	-43.89	-50.29	-45.93	-3.09
9-Nov-2008	08:00:00	-35.53	0.33	-8.56	-45.87	-43.90	-50.29	-42.90	-4.32
9-Nov-2008	20:00:00	-36.26	0.09	-9.37	-45.87	-43.90	-50.31	-42.06	-6.90
10-Nov-2008	08:00:00	-36.87	-0.10	-11.88	-45.97	-43.94	-50.32	-42.21	-9.59
10-Nov-2008	20:00:00	-37.38	-0.28	-13.20	-45.98	-43.95	-50.37	-42.73	-11.27
11-Nov-2008	08:00:00	-37.96	-0.65	-14.75	-46.14	-44.06	-50.39	-43.72	-13.33
11-Nov-2008	20:00:00	-38.53	-1.15	-16.70	-46.15	-44.07	-50.55	-44.87	-14.41
12-Nov-2008	08:00:00	-39.03	-2.96	-18.73	-46.06	-44.12	-50.54	-45.62	-15.43
12-Nov-2008	20:00:00	-39.45	-6.44	-20.36	-46.15	-44.09	-50.54	-45.86	-16.13
13-Nov-2008	08:00:00	-39.76	-8.46	-21.57	-46.05	-43.97	-50.54	-46.00	-16.68
13-Nov-2008	20:00:00								
14-Nov-2008	08:00:00								

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
14-Nov-2008	20:00:00								
15-Nov-2008	08:00:00								
15-Nov-2008	20:00:00								
16-Nov-2008	08:00:00								
16-Nov-2008	20:00:00								
17-Nov-2008	08:00:00								
17-Nov-2008	20:00:00								
18-Nov-2008	08:00:00								
18-Nov-2008	20:00:00								
19-Nov-2008	08:00:00								
19-Nov-2008	20:00:00								
20-Nov-2008	08:00:00								
20-Nov-2008	20:00:00								
21-Nov-2008	08:00:00								
21-Nov-2008	20:00:00								
22-Nov-2008	08:00:00								
22-Nov-2008	20:00:00								
23-Nov-2008	08:00:00								
23-Nov-2008	20:00:00								
24-Nov-2008	08:00:00								
24-Nov-2008	20:00:00								
25-Nov-2008	08:00:00								
25-Nov-2008	20:00:00								
26-Nov-2008	08:00:00								
26-Nov-2008	20:00:00								
27-Nov-2008	08:00:00								
27-Nov-2008	20:00:00								
28-Nov-2008	08:00:00								
28-Nov-2008	20:00:00								
29-Nov-2008	08:00:00								
29-Nov-2008	20:00:00								
30-Nov-2008	08:00:00								
30-Nov-2008	20:00:00								
1-Dec-2008	08:00:00								
1-Dec-2008	20:00:00								
2-Dec-2008	08:00:00								
2-Dec-2008	20:00:00								
3-Dec-2008	08:00:00								
3-Dec-2008	20:00:00								
4-Dec-2008	08:00:00								
4-Dec-2008	20:00:00								
5-Dec-2008	08:00:00								
5-Dec-2008	20:00:00								
6-Dec-2008	08:00:00								
6-Dec-2008	20:00:00								
7-Dec-2008	08:00:00								
7-Dec-2008	20:00:00								
8-Dec-2008	08:00:00								
8-Dec-2008	20:00:00								

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
01-Jan-2008	08:00:00	1.12	0.19	-38.73	-3.30	-4.72	-5.51	-4.45
01-Jan-2008	20:00:00	0.96	-0.17	-38.64	-3.57	-4.97	-5.97	-5.43
02-Jan-2008	08:00:00	0.56	-0.63	-38.87	-4.26	-5.20	-6.41	-6.32
02-Jan-2008	20:00:00	0.67	-0.99	-39.54	-4.15	-5.43	-6.84	-7.29
03-Jan-2008	08:00:00	-0.30	-3.00	-40.38	-10.07	-5.69	-7.37	-8.58
03-Jan-2008	20:00:00	0.28	-1.72	-41.10	-4.98	-5.85	-7.65	-9.54
04-Jan-2008	08:00:00	-0.72	-4.37	-41.71	-10.54	-6.08	-8.03	-10.45
04-Jan-2008	20:00:00	0.22	-1.41	-42.20	-4.84	-6.15	-8.15	-10.96
05-Jan-2008	08:00:00	-0.49	-3.57	-42.65	-7.61	-6.32	-8.42	-11.56
05-Jan-2008	20:00:00	0.17	-1.76	-43.10	-3.79	-6.38	-8.56	-12.05
06-Jan-2008	08:00:00	0.16	-1.98	-43.67	-4.04	-6.50	-8.78	-12.61
06-Jan-2008	20:00:00	0.08	-2.09	-44.36	-3.86	-6.60	-8.91	-13.22
07-Jan-2008	08:00:00	-0.01	-2.57	-45.01	-4.44	-6.73	-9.23	-13.80
07-Jan-2008	20:00:00	-0.08	-2.60	-45.43	-4.09	-6.85	-9.35	-14.55
08-Jan-2008	08:00:00	-0.13	-3.36	-45.79	-4.48	-6.96	-9.61	-15.06
08-Jan-2008	20:00:00	-0.18	-3.24	-46.06	-3.74	-7.04	-9.67	-15.46
09-Jan-2008	08:00:00	-0.16	-3.57	-46.29	-3.65	-7.13	-9.81	-15.80
09-Jan-2008	20:00:00	-0.29	-4.52	-46.66	-4.04	-7.27	-10.03	-16.37
10-Jan-2008	08:00:00	-0.42	-6.98	-46.99	-5.19	-7.45	-10.44	-17.13
10-Jan-2008	20:00:00	-0.46	-7.86	-47.15	-4.74	-7.54	-10.55	-17.75
11-Jan-2008	08:00:00	-0.26	-6.76	-47.36	-3.76	-7.37	-9.74	-17.88
11-Jan-2008	20:00:00	-0.19	-2.72	-47.60	-3.73	-7.37	-9.19	-16.64
12-Jan-2008	08:00:00	-0.30	-3.66	-47.89	-4.95	-7.63	-10.31	-17.11
12-Jan-2008	20:00:00	-0.48	-5.93	-48.09	-5.80	-7.81	-10.91	-18.16
13-Jan-2008	08:00:00	-0.57	-8.54	-48.23	-6.20	-7.96	-11.34	-18.91
13-Jan-2008	20:00:00	-0.51	-7.98	-48.32	-4.83	-8.03	-11.50	-19.22
14-Jan-2008	08:00:00	-0.65	-8.47	-48.50	-5.53	-8.18	-11.84	-19.66
14-Jan-2008	20:00:00	-1.33	-10.18	-48.73	-6.94	-8.36	-12.19	-20.30
15-Jan-2008	08:00:00	-4.99	-11.75	-48.98	-9.38	-8.53	-12.66	-20.98
15-Jan-2008	20:00:00	-3.05	-12.69	-49.26	-8.48	-8.71	-13.04	-21.62
16-Jan-2008	08:00:00	-12.60	-14.11	-49.63	-13.36	-8.99	-13.65	-22.62
16-Jan-2008	20:00:00	-2.18	-14.46	-49.97	-7.95	-9.14	-13.88	-23.69
17-Jan-2008	08:00:00	-3.17	-14.78	-50.20	-7.71	-9.24	-14.07	-24.17
17-Jan-2008	20:00:00	-0.04	-7.01	-46.64	-3.28	-6.47	-4.79	-11.63
18-Jan-2008	08:00:00	0.11	-2.82	-37.18	-3.84	-6.58	-6.16	-7.70
18-Jan-2008	20:00:00	0.09	-2.24	-35.42	-3.66	-6.66	-6.78	-8.17
19-Jan-2008	08:00:00	0.10	-2.19	-34.65	-3.81	-6.77	-7.27	-8.85
19-Jan-2008	20:00:00	1.28	0.24	-26.71	-2.95	-5.05	-3.70	-1.12
20-Jan-2008	08:00:00	1.10	0.01	-22.86	-3.47	-4.81	-4.43	-1.32
20-Jan-2008	20:00:00	0.83	-0.40	-24.20	-3.97	-5.00	-5.11	-2.41
21-Jan-2008	08:00:00	-0.03	-2.43	-26.94	-8.88	-5.26	-5.66	-3.35
21-Jan-2008	20:00:00	0.71	-0.60	-28.63	-4.50	-5.39	-5.84	-3.73
22-Jan-2008	08:00:00	0.25	-1.27	-28.50	-6.07	-5.53	-6.03	-4.02
22-Jan-2008	20:00:00	0.89	-0.07	-28.11	-2.94	-5.49	-6.03	-4.08
23-Jan-2008	08:00:00	1.24	0.48	-18.50	-2.99	-4.76	-4.46	-1.15
23-Jan-2008	20:00:00	1.09	0.40	-17.63	-2.91	-4.93	-4.96	-1.85
24-Jan-2008	08:00:00	1.03	0.31	-19.63	-3.25	-5.06	-5.28	-2.40
24-Jan-2008	20:00:00	0.92	0.06	-21.17	-3.56	-5.22	-5.59	-2.94
25-Jan-2008	08:00:00	0.33	-0.71	-24.03	-6.36	-5.41	-6.04	-3.72

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
25-Jan-2008	20:00:00	0.72	-0.34	-25.56	-3.81	-5.53	-6.21	-4.06
26-Jan-2008	08:00:00	0.55	-0.42	-26.25	-4.38	-5.65	-6.37	-4.31
26-Jan-2008	20:00:00	0.72	-0.21	-25.90	-3.18	-5.73	-6.42	-4.35
27-Jan-2008	08:00:00	0.54	-0.54	-26.21	-4.40	-5.83	-6.65	-4.71
27-Jan-2008	20:00:00	0.58	-0.72	-26.81	-3.72	-5.92	-6.78	-5.00
28-Jan-2008	08:00:00	0.13	-1.22	-27.57	-6.28	-6.06	-7.09	-5.44
28-Jan-2008	20:00:00	0.46	-0.94	-28.09	-3.63	-6.13	-7.15	-5.70
29-Jan-2008	08:00:00	0.44	-0.87	-28.38	-3.79	-6.20	-7.25	-5.89
29-Jan-2008	20:00:00	0.40	-1.00	-28.33	-3.38	-6.28	-7.30	-6.14
30-Jan-2008	08:00:00	0.48	-0.52	-28.30	-3.20	-6.19	-6.62	-4.92
30-Jan-2008	20:00:00	0.19	-2.14	-28.70	-4.69	-6.38	-7.46	-6.41
31-Jan-2008	08:00:00	-0.34	-2.70	-29.52	-7.37	-6.54	-7.98	-7.13
31-Jan-2008	20:00:00	-0.10	-2.99	-30.22	-5.36	-6.62	-8.12	-7.56
01-Feb-2008	08:00:00	0.62	-0.42	-30.12	-3.68	-5.69	-4.21	-2.18
01-Feb-2008	20:00:00	1.76	0.83	-15.74	-2.26	-3.80	-3.44	0.06
02-Feb-2008	08:00:00	1.19	0.42	-14.77	-3.50	-4.06	-4.09	-0.50
02-Feb-2008	20:00:00	1.10	0.44	-15.71	-2.94	-4.34	-4.38	-0.96
03-Feb-2008	08:00:00	1.00	0.20	-17.39	-3.60	-4.57	-4.62	-1.41
03-Feb-2008	20:00:00	0.91	0.13	-18.07	-3.02	-4.75	-4.80	-1.97
04-Feb-2008	08:00:00	0.84	0.01	-19.33	-3.54	-4.92	-4.97	-2.36
04-Feb-2008	20:00:00	0.84	0.00	-19.87	-3.01	-5.05	-5.09	-2.73
05-Feb-2008	08:00:00	0.86	0.01	-19.96	-3.20	-5.16	-5.17	-2.85
05-Feb-2008	20:00:00	0.82	0.03	-19.98	-2.88	-5.26	-5.25	-3.07
06-Feb-2008	08:00:00	0.76	-0.08	-20.74	-3.19	-5.35	-5.35	-3.20
06-Feb-2008	20:00:00	0.76	-0.14	-21.13	-2.86	-5.46	-5.43	-3.45
07-Feb-2008	08:00:00	0.46	-0.70	-22.57	-3.55	-5.59	-5.66	-3.71
07-Feb-2008	20:00:00	0.24	-1.53	-24.23	-4.37	-5.75	-5.92	-4.20
08-Feb-2008	08:00:00	0.06	-1.60	-25.91	-4.73	-5.88	-6.12	-4.37
08-Feb-2008	20:00:00	-0.04	-1.93	-27.52	-4.89	-6.00	-6.26	-4.72
09-Feb-2008	08:00:00	-0.16	-2.04	-28.74	-5.31	-6.10	-6.43	-4.84
09-Feb-2008	20:00:00	-0.18	-2.13	-29.52	-5.19	-6.19	-6.50	-5.12
10-Feb-2008	08:00:00	-0.53	-3.31	-30.35	-6.57	-6.32	-6.78	-5.36
10-Feb-2008	20:00:00	-1.52	-6.40	-31.00	-8.76	-6.47	-6.99	-5.91
11-Feb-2008	08:00:00	-8.57	-11.06	-31.87	-12.92	-6.65	-7.46	-6.45
11-Feb-2008	20:00:00	-4.49	-12.78	-32.57	-12.08	-6.75	-7.62	-6.73
12-Feb-2008	08:00:00	-7.86	-14.05	-33.17	-12.89	-6.87	-7.81	-6.97
12-Feb-2008	20:00:00	-4.55	-13.71	-33.51	-8.77	-6.87	-7.53	-6.62
13-Feb-2008	08:00:00	-0.44	-8.11	-33.66	-3.59	-5.67	-4.07	-1.16
13-Feb-2008	20:00:00	2.14	-1.52	-20.95	-2.34	-2.56	-2.32	0.55
14-Feb-2008	08:00:00	1.32	-0.33	-15.07	-3.63	-3.19	-2.83	-0.30
14-Feb-2008	20:00:00	1.04	-0.03	-16.86	-3.50	-3.69	-3.13	-0.72
15-Feb-2008	08:00:00	0.96	-0.09	-18.67	-3.81	-4.01	-3.35	-1.13
15-Feb-2008	20:00:00	0.88	0.00	-19.27	-3.28	-4.26	-3.50	-1.54
16-Feb-2008	08:00:00	0.78	-0.36	-20.80	-3.97	-4.48	-3.70	-1.91
16-Feb-2008	20:00:00	0.63	-0.59	-22.00	-4.01	-4.68	-3.88	-2.29
17-Feb-2008	08:00:00	0.62	-0.68	-23.39	-4.31	-4.82	-4.00	-2.52
17-Feb-2008	20:00:00	0.69	-0.27	-23.58	-2.83	-4.89	-4.07	-2.53
18-Feb-2008	08:00:00	1.93	0.85	-20.76	-2.18	-3.22	-2.27	0.48
18-Feb-2008	20:00:00	1.38	0.56	-15.49	-2.50	-3.53	-2.82	-0.42



Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
19-Feb-2008	08:00:00	1.09	0.06	-18.15	-3.79	-3.90	-3.13	-0.89
19-Feb-2008	20:00:00	0.95	-0.11	-19.80	-3.52	-4.19	-3.40	-1.41
20-Feb-2008	08:00:00	0.82	-0.45	-22.22	-4.37	-4.42	-3.60	-1.85
20-Feb-2008	20:00:00	0.72	-0.51	-23.09	-3.49	-4.58	-3.76	-2.21
21-Feb-2008	08:00:00	0.41	-1.61	-25.30	-5.74	-4.79	-3.98	-2.68
21-Feb-2008	20:00:00	0.41	-1.59	-26.83	-5.27	-4.95	-4.12	-2.89
22-Feb-2008	08:00:00	0.97	0.24	-27.13	-3.55	-4.26	-2.81	-0.37
22-Feb-2008	20:00:00	1.56	0.59	-20.58	-2.70	-3.49	-2.71	-0.17
23-Feb-2008	08:00:00	1.39	0.42	-18.21	-3.05	-3.78	-2.97	-0.36
23-Feb-2008	20:00:00	1.67	0.57	-15.27	-2.86	-3.21	-2.44	-0.22
24-Feb-2008	08:00:00	1.36	0.25	-16.52	-3.80	-3.62	-2.77	-0.61
24-Feb-2008	20:00:00	1.28	0.32	-17.37	-3.00	-3.92	-3.00	-1.01
25-Feb-2008	08:00:00	1.23	0.21	-18.63	-3.44	-4.13	-3.19	-1.30
25-Feb-2008	20:00:00	1.18	0.18	-19.36	-3.01	-4.31	-3.37	-1.61
26-Feb-2008	08:00:00	1.20	0.17	-20.41	-3.32	-4.44	-3.46	-1.78
26-Feb-2008	20:00:00	1.59	0.76	-17.51	-2.12	-4.06	-2.99	-0.51
27-Feb-2008	08:00:00	1.57	0.39	-15.82	-3.20	-4.01	-3.07	-0.46
27-Feb-2008	20:00:00	1.34	0.04	-18.16	-3.62	-4.26	-3.40	-1.06
28-Feb-2008	08:00:00	0.67	-0.74	-21.74	-5.49	-4.50	-3.66	-1.62
28-Feb-2008	20:00:00	1.00	-0.53	-23.92	-4.35	-4.64	-3.82	-2.06
29-Feb-2008	08:00:00	0.71	-0.88	-25.79	-5.41	-4.81	-3.99	-2.45
29-Feb-2008	20:00:00	0.87	-0.70	-26.45	-3.71	-4.92	-4.08	-2.62
1-Mar-2008	08:00:00	0.82	-0.77	-26.82	-3.89	-5.00	-4.16	-2.70
1-Mar-2008	20:00:00	0.57	-1.98	-27.18	-4.56	-5.15	-4.35	-3.17
2-Mar-2008	08:00:00	0.37	-2.21	-28.31	-5.91	-5.28	-4.53	-3.36
2-Mar-2008	20:00:00	0.30	-2.25	-29.21	-5.71	-5.41	-4.65	-3.57
3-Mar-2008	08:00:00	0.23	-2.61	-29.93	-6.58	-5.49	-4.77	-3.63
3-Mar-2008	20:00:00	0.13	-2.79	-30.36	-5.54	-5.57	-4.84	-3.79
4-Mar-2008	08:00:00	0.11	-3.24	-30.59	-5.62	-5.63	-4.91	-3.65
4-Mar-2008	20:00:00	0.08	-3.48	-30.61	-5.08	-5.68	-4.93	-3.73
5-Mar-2008	08:00:00	1.27	0.27	-28.38	-3.20	-3.80	-3.02	-0.17
5-Mar-2008	20:00:00	1.00	-0.08	-25.85	-3.13	-4.13	-3.49	-0.74
6-Mar-2008	08:00:00	0.85	-0.35	-26.15	-3.97	-4.35	-3.72	-1.19
6-Mar-2008	20:00:00	0.80	-0.33	-26.48	-3.42	-4.57	-3.90	-1.65
7-Mar-2008	08:00:00	0.73	-0.54	-27.05	-3.94	-4.71	-4.03	-1.94
7-Mar-2008	20:00:00	2.33	1.36	-23.20	-2.04	-2.21	-1.22	0.99
8-Mar-2008	08:00:00	1.53	0.93	-16.60	-2.32	-2.89	-2.01	-0.22
8-Mar-2008	20:00:00	1.30	0.22	-15.49	-3.04	-3.30	-2.36	-0.51
9-Mar-2008	08:00:00	1.00	-0.36	-20.27	-4.61	-3.71	-2.76	-0.96
9-Mar-2008	20:00:00	0.86	-0.41	-22.35	-3.78	-4.01	-3.04	-1.43
10-Mar-2008	08:00:00	0.77	-0.69	-24.39	-4.55	-4.24	-3.28	-1.79
10-Mar-2008	20:00:00	0.75	-0.63	-25.14	-3.48	-4.40	-3.45	-2.13
11-Mar-2008	08:00:00	0.66	-0.92	-26.05	-4.17	-4.54	-3.58	-2.31
11-Mar-2008	20:00:00	0.63	-0.89	-26.54	-3.50	-4.67	-3.70	-2.55
12-Mar-2008	08:00:00	0.53	-1.21	-27.06	-4.06	-4.78	-3.83	-2.63
12-Mar-2008	20:00:00	0.29	-2.54	-27.90	-5.41	-4.94	-4.04	-3.13
13-Mar-2008	08:00:00	0.13	-2.80	-28.95	-6.72	-5.07	-4.20	-3.22
13-Mar-2008	20:00:00	0.01	-3.07	-29.71	-6.33	-5.18	-4.34	-3.56
14-Mar-2008	08:00:00	-0.13	-4.37	-30.34	-7.66	-5.26	-4.45	-3.52

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
14-Mar-2008	20:00:00	-0.36	-7.10	-30.82	-8.22	-5.38	-4.58	-3.89
15-Mar-2008	08:00:00	-0.66	-10.06	-31.39	-9.38	-5.48	-4.74	-3.94
15-Mar-2008	20:00:00	-0.61	-10.20	-31.97	-8.76	-4.32	-1.79	-0.35
16-Mar-2008	08:00:00	0.58	-1.68	-32.39	-5.40	-3.89	-3.12	-0.34
16-Mar-2008	20:00:00	0.46	-0.78	-32.06	-4.66	-4.17	-3.49	-0.86
17-Mar-2008	08:00:00	0.27	-1.23	-31.78	-5.64	-4.43	-3.74	-1.38
17-Mar-2008	20:00:00	0.19	-1.54	-31.57	-5.10	-4.64	-3.93	-1.96
18-Mar-2008	08:00:00	0.06	-1.65	-31.40	-5.51	-4.77	-4.10	-2.26
18-Mar-2008	20:00:00	0.16	-1.24	-31.22	-4.08	-4.86	-4.17	-2.49
19-Mar-2008	08:00:00	0.14	-1.07	-30.93	-3.71	-4.93	-4.24	-2.55
19-Mar-2008	20:00:00	0.14	-0.99	-30.52	-3.03	-5.01	-4.32	-2.81
20-Mar-2008	08:00:00	-0.07	-1.55	-30.36	-3.51	-5.09	-4.45	-2.86
20-Mar-2008	20:00:00	-0.85	-5.32	-31.06	-8.84	-5.31	-4.77	-3.63
21-Mar-2008	08:00:00	-2.39	-6.35	-32.04	-10.96	-5.46	-4.95	-3.80
21-Mar-2008	20:00:00	-5.89	-8.64	-32.67	-11.16	-5.59	-5.08	-4.21
22-Mar-2008	08:00:00	-7.44	-10.89	-33.04	-11.49	-5.67	-5.13	-4.04
22-Mar-2008	20:00:00	-12.73	-12.91	-33.42	-11.84	-5.81	-5.35	-4.69
23-Mar-2008	08:00:00	-15.64	-15.41	-34.11	-15.31	-5.95	-5.53	-4.84
23-Mar-2008	20:00:00	-17.40	-16.75	-34.58	-16.58	-6.10	-5.69	-5.25
24-Mar-2008	08:00:00	-18.53	-17.81	-35.04	-17.44	-6.20	-5.84	-5.31
24-Mar-2008	20:00:00	-19.43	-18.59	-35.45	-18.60	-6.32	-5.96	-5.68
25-Mar-2008	08:00:00	-20.48	-19.59	-36.03	-19.98	-6.44	-6.17	-5.90
25-Mar-2008	20:00:00	-21.18	-20.20	-36.45	-20.35	-6.57	-6.26	-6.28
26-Mar-2008	08:00:00	-21.85	-20.62	-36.87	-21.16	-6.67	-6.41	-6.35
26-Mar-2008	20:00:00	-22.26	-20.85	-37.19	-21.09	-6.82	-6.57	-7.03
27-Mar-2008	08:00:00	-22.70	-21.09	-37.55	-21.86	-6.91	-6.72	-6.98
27-Mar-2008	20:00:00	-22.98	-21.13	-37.78	-21.90	-7.07	-6.92	-7.80
28-Mar-2008	08:00:00	-23.31	-21.25	-38.11	-22.55	-7.15	-7.07	-7.72
28-Mar-2008	20:00:00	-23.58	-21.33	-38.38	-22.53	-7.31	-7.28	-8.60
29-Mar-2008	08:00:00	-24.24	-21.96	-38.90	-22.86	-7.35	-7.41	-7.84
29-Mar-2008	20:00:00	-24.95	-22.67	-39.35	-18.08	-6.73	-5.77	-4.23
30-Mar-2008	08:00:00	-25.66	-23.34	-39.77	-17.62	-6.70	-5.79	-4.03
30-Mar-2008	20:00:00	-25.36	-20.54	-40.15	-9.20	-5.75	-4.17	-1.22
31-Mar-2008	08:00:00	-24.40	-15.52	-40.43	-4.96	-5.55	-4.40	-1.15
31-Mar-2008	20:00:00	-23.38	-11.83	-40.67	-3.48	-5.48	-4.57	-1.35
1-Apr-2008	08:00:00	-23.04	-9.72	-40.89	-3.71	-5.53	-4.82	-1.69
1-Apr-2008	20:00:00	-17.62	-6.34	-41.03	-2.99	-4.90	-3.80	-0.46
2-Apr-2008	08:00:00	-15.27	-4.76	-41.27	-4.27	-4.98	-4.35	-0.96
2-Apr-2008	20:00:00	-17.33	-6.75	-41.25	-9.16	-5.22	-4.75	-1.76
3-Apr-2008	08:00:00	-19.05	-8.95	-41.08	-10.68	-5.36	-4.96	-2.23
3-Apr-2008	20:00:00	-20.02	-10.17	-40.82	-9.78	-5.44	-5.06	-2.52
4-Apr-2008	08:00:00	-1.57	-4.94	-39.17	-4.01	-4.07	-3.43	-0.22
4-Apr-2008	20:00:00	-5.42	-2.67	-35.62	-2.79	-4.26	-3.73	-0.66
5-Apr-2008	08:00:00	0.38	-0.56	-31.46	-2.90	-3.53	-2.89	0.01
5-Apr-2008	20:00:00	1.51	0.26	-20.12	-2.57	-2.98	-2.25	0.43
6-Apr-2008	08:00:00	1.17	0.16	-12.34	-2.95	-3.20	-2.55	-0.24
6-Apr-2008	20:00:00	0.94	-0.10	-12.86	-3.29	-3.60	-2.87	-0.59
7-Apr-2008	08:00:00	0.87	-0.15	-14.00	-3.54	-3.86	-3.05	-0.97
7-Apr-2008	20:00:00	0.81	-0.08	-14.59	-3.28	-4.07	-3.27	-1.27

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
8-Apr-2008	08:00:00	0.76	-0.30	-16.75	-3.76	-4.23	-3.44	-1.54
8-Apr-2008	20:00:00	0.63	-0.22	-18.56	-3.30	-4.41	-3.65	-1.90
9-Apr-2008	08:00:00	0.57	-0.44	-20.34	-3.79	-4.54	-3.77	-2.13
9-Apr-2008	20:00:00	0.55	-0.17	-21.22	-3.12	-4.66	-3.87	-2.38
10-Apr-2008	08:00:00	0.49	-0.50	-22.48	-3.61	-4.74	-3.97	-2.51
10-Apr-2008	20:00:00	0.38	-0.22	-23.29	-3.22	-4.89	-4.12	-2.97
11-Apr-2008	08:00:00	0.30	-0.79	-24.56	-3.94	-4.99	-4.20	-2.93
11-Apr-2008	20:00:00	0.19	-0.70	-25.48	-3.82	-5.15	-4.39	-3.46
12-Apr-2008	08:00:00	0.06	-1.40	-26.45	-4.47	-5.25	-4.51	-3.48
12-Apr-2008	20:00:00	0.35	-0.72	-27.24	-3.85	-4.71	-3.72	-1.10
13-Apr-2008	08:00:00	0.11	-1.64	-27.12	-4.35	-4.87	-4.10	-1.72
13-Apr-2008	20:00:00	-0.17	-3.01	-27.50	-4.41	-5.12	-4.43	-2.60
14-Apr-2008	08:00:00	-0.41	-4.15	-28.48	-5.46	-5.27	-4.66	-2.98
14-Apr-2008	20:00:00	-0.71	-4.66	-29.55	-6.44	-5.43	-4.87	-3.53
15-Apr-2008	08:00:00	-1.32	-5.01	-30.51	-6.88	-5.55	-5.01	-3.68
15-Apr-2008	20:00:00	-7.15	-7.23	-31.48	-10.55	-5.75	-5.27	-4.44
16-Apr-2008	08:00:00	-8.90	-9.56	-32.37	-12.53	-5.89	-5.44	-4.58
16-Apr-2008	20:00:00	-13.25	-11.89	-33.13	-13.94	-6.09	-5.67	-5.30
17-Apr-2008	08:00:00	-14.50	-14.09	-33.75	-15.08	-6.21	-5.81	-5.34
17-Apr-2008	20:00:00	-16.54	-15.27	-34.29	-15.26	-6.46	-6.12	-6.41
18-Apr-2008	08:00:00	-17.70	-16.47	-34.75	-16.24	-6.57	-6.27	-6.47
18-Apr-2008	20:00:00	-18.46	-16.91	-35.26	-16.39	-6.93	-6.78	-8.04
19-Apr-2008	08:00:00	-19.17	-17.66	-35.70	-17.52	-7.07	-7.01	-8.45
19-Apr-2008	20:00:00	-19.65	-17.99	-36.16	-18.27	-7.50	-7.64	-9.93
20-Apr-2008	08:00:00	-17.11	-17.96	-36.55	-17.51	-6.72	-5.20	-7.29
20-Apr-2008	20:00:00	-1.99	-7.66	-35.48	-5.46	-0.85	-0.49	0.67
21-Apr-2008	08:00:00	0.80	-2.54	-26.91	-3.64	-2.06	-1.14	-0.24
21-Apr-2008	20:00:00	0.61	-0.59	-24.00	-3.62	-2.94	-1.86	-0.75
22-Apr-2008	08:00:00	0.61	-0.34	-23.23	-3.81	-3.34	-2.25	-0.98
22-Apr-2008	20:00:00	1.34	0.43	-20.00	-2.89	-2.71	-1.81	-0.19
23-Apr-2008	08:00:00	0.91	-0.01	-18.52	-3.61	-3.25	-2.24	-0.61
23-Apr-2008	20:00:00	0.78	0.21	-19.73	-3.21	-3.71	-2.69	-1.40
24-Apr-2008	08:00:00	0.66	-0.51	-21.90	-4.19	-3.94	-2.93	-1.75
24-Apr-2008	20:00:00	0.75	-0.19	-23.46	-3.46	-4.25	-3.27	-2.66
25-Apr-2008	08:00:00	0.45	-0.97	-25.01	-4.49	-4.40	-3.40	-2.79
25-Apr-2008	20:00:00	0.52	-1.14	-26.64	-4.16	-4.72	-3.81	-4.07
26-Apr-2008	08:00:00	0.21	-2.03	-27.80	-5.13	-4.84	-3.91	-4.03
26-Apr-2008	20:00:00	0.18	-2.76	-29.19	-5.93	-5.20	-4.28	-5.87
27-Apr-2008	08:00:00	-0.20	-3.63	-30.08	-6.69	-5.31	-4.35	-5.84
27-Apr-2008	20:00:00	-0.32	-4.39	-31.05	-8.43	-5.55	-4.63	-7.00
28-Apr-2008	08:00:00	0.10	-1.41	-31.65	-4.78	-5.08	-3.99	-2.99
28-Apr-2008	20:00:00	1.59	0.37	-28.20	-2.89	-3.08	-1.60	0.64
29-Apr-2008	08:00:00	1.04	-0.04	-20.09	-3.39	-2.99	-2.25	-0.33
29-Apr-2008	20:00:00	0.73	-0.24	-20.79	-3.36	-3.61	-2.79	-1.32
30-Apr-2008	08:00:00	0.31	-1.02	-23.72	-4.79	-3.90	-3.02	-1.82
30-Apr-2008	20:00:00	0.49	-1.04	-25.92	-4.28	-4.27	-3.45	-3.07
1-May-2008	08:00:00	0.12	-2.14	-27.66	-5.81	-4.42	-3.60	-3.28
1-May-2008	20:00:00	0.30	-2.97	-29.29	-5.63	-4.76	-4.00	-4.88
2-May-2008	08:00:00	-0.20	-4.36	-30.37	-7.10	-4.89	-4.08	-5.01

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
2-May-2008	20:00:00	-0.62	-5.79	-31.56	-7.68	-5.31	-4.58	-7.67
3-May-2008	08:00:00	-1.54	-7.65	-32.27	-9.20	-5.42	-4.65	-8.11
3-May-2008	20:00:00	-7.79	-10.58	-33.16	-10.47	-5.94	-5.45	-10.91
4-May-2008	08:00:00	-8.77	-13.15	-33.72	-12.20	-6.05	-5.42	-12.01
4-May-2008	20:00:00	-13.47	-15.05	-34.53	-13.95	-6.62	-6.39	-14.83
5-May-2008	08:00:00	-15.36	-16.68	-35.08	-15.88	-6.74	-6.27	-16.22
5-May-2008	20:00:00	-17.30	-17.68	-35.78	-17.36	-7.32	-7.36	-18.30
6-May-2008	08:00:00	-18.40	-18.75	-36.32	-18.51	-7.41	-7.23	-19.28
6-May-2008	20:00:00	-19.17	-19.31	-37.02	-19.49	-8.19	-8.59	-21.94
7-May-2008	08:00:00	-20.02	-20.07	-37.55	-20.90	-8.23	-8.28	-23.59
7-May-2008	20:00:00	-20.52	-20.41	-38.12	-21.37	-9.76	-10.71	-26.87
8-May-2008	08:00:00	-21.12	-20.88	-38.57	-22.97	-9.71	-10.32	-27.93
8-May-2008	20:00:00	-21.59	-21.36	-38.98	-21.76	-10.18	-10.58	-28.51
9-May-2008	08:00:00	-6.98	-20.26	-39.27	-19.54	-4.46	-2.65	-0.49
9-May-2008	20:00:00	0.37	-6.35	-39.68	-5.05	-5.15	-4.33	-3.03
10-May-2008	08:00:00	0.29	-3.12	-40.08	-4.37	-5.27	-4.72	-3.72
10-May-2008	20:00:00	-0.25	-4.44	-40.55	-4.38	-5.76	-5.68	-6.21
11-May-2008	08:00:00	-0.43	-4.56	-40.89	-4.99	-5.88	-5.71	-6.71
11-May-2008	20:00:00	0.65	-1.68	-40.93	-3.03	-4.42	-3.04	-0.42
12-May-2008	08:00:00	0.75	-0.98	-41.17	-3.42	-4.45	-3.70	-0.91
12-May-2008	20:00:00	0.35	-1.74	-41.64	-3.92	-4.83	-4.46	-2.39
13-May-2008	08:00:00	0.18	-2.12	-42.08	-4.61	-5.00	-4.68	-3.11
13-May-2008	20:00:00	-0.16	-4.29	-42.52	-4.32	-5.51	-5.59	-5.31
14-May-2008	08:00:00	-0.38	-4.67	-42.84	-5.33	-5.67	-5.65	-5.63
14-May-2008	20:00:00	-3.32	-5.93	-43.16	-4.89	-6.21	-6.71	-8.68
15-May-2008	08:00:00	-2.81	-6.56	-43.43	-5.53	-6.31	-6.59	-9.53
15-May-2008	20:00:00	-6.53	-8.34	-43.68	-5.30	-6.81	-7.64	-12.30
16-May-2008	08:00:00	-0.80	-5.49	-43.77	-3.76	-6.65	-6.53	-12.16
16-May-2008	20:00:00	-2.83	-5.44	-43.95	-4.10	-5.96	-4.66	-9.77
17-May-2008	08:00:00	-1.57	-5.79	-44.41	-4.52	-6.28	-5.70	-7.34
17-May-2008	20:00:00	-9.16	-8.06	-44.77	-4.78	-7.07	-7.77	-11.65
18-May-2008	08:00:00	-9.55	-10.65	-45.02	-5.86	-7.20	-7.78	-13.80
18-May-2008	20:00:00	-10.37	-9.61	-45.29	-5.33	-5.14	-3.18	-5.90
19-May-2008	08:00:00	-0.62	-5.47	-45.74	-3.88	-5.97	-5.06	-4.49
19-May-2008	20:00:00	-8.10	-8.00	-46.02	-3.34	-6.70	-6.85	-8.47
20-May-2008	08:00:00	-6.99	-6.93	-46.12	-3.92	-6.81	-6.88	-9.87
20-May-2008	20:00:00	-3.77	-5.02	-46.38	-3.40	-6.94	-7.00	-12.66
21-May-2008	08:00:00	-5.47	-6.21	-46.72	-4.13	-7.22	-7.48	-13.20
21-May-2008	20:00:00	-13.10	-10.38	-47.08	-4.16	-8.17	-10.23	-17.48
22-May-2008	08:00:00	-15.41	-13.51	-47.45	-6.09	-8.25	-10.03	-19.43
22-May-2008	20:00:00	-17.59	-15.60	-47.84	-7.75	-10.00	-13.75	-25.63
23-May-2008	08:00:00	-19.08	-17.54	-48.27	-9.88	-10.00	-13.72	-27.71
23-May-2008	20:00:00	-20.03	-18.55	-48.61	-11.18	-12.19	-16.19	-30.13
24-May-2008	08:00:00	-20.83	-19.54	-48.95	-9.82	-12.43	-16.36	-31.21
24-May-2008	20:00:00	-21.32	-19.89	-49.26	-11.79	-13.05	-16.23	-32.52
25-May-2008	08:00:00	-22.14	-20.79	-49.66	-14.91	-14.22	-17.38	-33.37
25-May-2008	20:00:00	-22.71	-21.38	-49.97	-16.27	-16.98	-19.19	-34.72
26-May-2008	08:00:00	-23.33	-22.03	-50.28	-18.31	-18.77	-20.70	-35.58
26-May-2008	20:00:00	-23.66	-22.39	-50.50	-19.62	-21.32	-22.45	-36.88

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
27-May-2008	08:00:00	-24.13	-22.86	-50.82	-21.69	-22.57	-23.38	-37.54
27-May-2008	20:00:00	-24.43	-23.23	-51.10	-22.28	-23.87	-24.70	-38.57
28-May-2008	08:00:00	-17.61	-23.63	-51.43	-19.63	-17.06	-10.16	-31.98
28-May-2008	20:00:00	-19.61	-22.77	-51.78	-14.79	-10.08	-7.97	-32.40
29-May-2008	08:00:00	-21.32	-22.76	-52.04	-11.99	-10.89	-9.17	-33.35
29-May-2008	20:00:00	-22.29	-22.91	-52.27	-11.52	-13.46	-12.64	-34.87
30-May-2008	08:00:00	-23.77	-23.77	-52.21	-13.30	-15.90	-13.66	-36.56
30-May-2008	20:00:00	-24.32	-24.32	-52.50	-13.52	-18.77	-15.78	-37.97
31-May-2008	08:00:00	-24.82	-24.82	-52.82	-15.06	-20.68	-16.71	-38.61
31-May-2008	20:00:00	-25.03	-25.03	-53.02	-15.43	-22.53	-17.88	-39.66
1-Jun-2008	08:00:00	-25.37	-25.37	-53.32	-17.16	-23.76	-19.31	-40.28
1-Jun-2008	20:00:00	-23.69	-23.69	-53.61	-18.01	-22.41	-17.99	-30.50
2-Jun-2008	08:00:00	-24.26	-24.26	-53.75	-16.27	-23.26	-15.75	-33.08
2-Jun-2008	20:00:00	-24.96	-24.96	-53.95	-17.44	-24.87	-16.67	-35.32
3-Jun-2008	08:00:00	-25.62	-25.62	-54.10	-19.81	-25.85	-17.65	-36.55
3-Jun-2008	20:00:00	-25.98	-25.98	-54.25	-20.61	-26.91	-19.91	-38.18
4-Jun-2008	08:00:00	-26.27	-26.27	-54.38	-22.31	-27.63	-21.50	-38.97
4-Jun-2008	20:00:00	-26.47	-26.47	-53.92	-22.61	-28.52	-23.25	-40.28
5-Jun-2008	08:00:00	-26.83	-26.83	-53.93	-24.10	-29.24	-24.33	-41.12
5-Jun-2008	20:00:00	-27.16	-27.16	-53.93	-24.74	-30.11	-25.87	-42.32
6-Jun-2008	08:00:00	-27.46	-27.46	-53.93	-25.89	-30.70	-26.71	-42.99
6-Jun-2008	20:00:00	-27.67	-27.67	-53.93	-26.23	-31.38	-27.68	-43.98
7-Jun-2008	08:00:00	-27.85	-27.85	-53.93	-26.87	-31.86	-28.26	-44.58
7-Jun-2008	20:00:00	-27.95	-27.95	-53.93	-27.02	-32.55	-29.06	-45.58
8-Jun-2008	08:00:00	-28.04	-28.04	-53.93	-27.51	-33.04	-29.55	-46.19
8-Jun-2008	20:00:00	-28.06	-28.06	-53.93	-27.68	-33.69	-30.24	-46.92
9-Jun-2008	08:00:00	-28.13	-28.13	-53.93	-28.02	-34.18	-30.69	-46.65
9-Jun-2008	20:00:00	-28.23	-28.23	-53.93	-28.24	-34.91	-31.34	-46.64
10-Jun-2008	08:00:00	-28.37	-28.37	-53.93	-28.57	-35.47	-31.77	-46.66
10-Jun-2008	20:00:00	-28.58	-28.58	-53.93	-28.76	-36.26	-32.35	-46.64
11-Jun-2008	08:00:00	-28.80	-28.80	-53.93	-29.09	-36.87	-32.80	-46.66
11-Jun-2008	20:00:00	-29.10	-29.10	-53.94	-29.43	-37.60	-33.44	-46.65
12-Jun-2008	08:00:00	-29.48	-29.48	-53.94	-29.80	-38.15	-33.88	-46.66
12-Jun-2008	20:00:00	-29.82	-29.82	-53.92	-30.11	-38.84	-34.53	-46.65
13-Jun-2008	08:00:00	-30.16	-30.16	-53.94	-30.39	-39.36	-34.96	-46.66
13-Jun-2008	20:00:00	-30.44	-30.44	-53.93	-30.61	-39.99	-35.51	-46.64
14-Jun-2008	08:00:00	-30.68	-30.68	-53.94	-30.79	-40.49	-35.87	-46.65
14-Jun-2008	20:00:00	-30.74	-30.74	-53.93	-30.89	-41.18	-36.35	-46.64
15-Jun-2008	08:00:00	-30.90	-30.90	-53.95	-31.02	-41.71	-36.71	-46.64
15-Jun-2008	20:00:00	-31.16	-31.16	-53.94	-31.16	-42.34	-37.12	-46.65
16-Jun-2008	08:00:00	-31.40	-31.40	-53.96	-31.36	-42.88	-37.43	-46.64
16-Jun-2008	20:00:00	-31.64	-31.64	-53.94	-31.51	-43.59	-37.95	-46.62
17-Jun-2008	08:00:00	-31.88	-31.88	-53.94	-31.64	-44.15	-38.31	-46.62
17-Jun-2008	20:00:00	-32.07	-32.07	-53.96	-31.79	-44.92	-38.80	-46.62
18-Jun-2008	08:00:00	-32.45	-32.45	-53.94	-32.00	-45.44	-39.17	-46.63
18-Jun-2008	20:00:00	-32.72	-32.72	-53.94	-32.18	-45.44	-39.71	-46.62
19-Jun-2008	08:00:00	-33.15	-33.15	-53.95	-32.45	-45.44	-40.09	-46.62
19-Jun-2008	20:00:00	-33.82	-33.82	-53.93	-32.73	-45.45	-40.63	-46.63
20-Jun-2008	08:00:00	-34.49	-34.49	-53.96	-33.01	-45.44	-41.01	-46.64

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
20-Jun-2008	20:00:00	-35.04	-35.04	-53.95	-33.30	-45.44	-41.48	-46.62
21-Jun-2008	08:00:00	-35.41	-35.41	-53.93	-33.57	-45.45	-41.83	-46.62
21-Jun-2008	20:00:00	-35.72	-35.72	-53.95	-33.76	-45.44	-42.25	-46.61
22-Jun-2008	08:00:00	-35.99	-35.99	-53.94	-33.95	-45.43	-42.54	-46.62
22-Jun-2008	20:00:00	-36.20	-36.20	-53.95	-34.13	-45.43	-42.99	-46.63
23-Jun-2008	08:00:00	-36.49	-36.49	-53.95	-34.28	-45.43	-43.30	-46.62
23-Jun-2008	20:00:00	-36.73	-36.73	-53.95	-34.46	-45.44	-43.64	-46.61
24-Jun-2008	08:00:00	-37.12	-37.12	-53.95	-34.72	-45.44	-43.93	-46.62
24-Jun-2008	20:00:00	-37.50	-37.50	-53.94	-34.97	-45.44	-43.74	-46.62
25-Jun-2008	08:00:00	-37.84	-37.84	-53.95	-35.18	-45.44	-43.74	-46.63
25-Jun-2008	20:00:00	-37.96	-37.96	-53.98	-35.27	-45.46	-43.73	-46.61
26-Jun-2008	08:00:00	-38.07	-38.07	-53.96	-35.32	-45.45	-43.74	-46.62
26-Jun-2008	20:00:00	-38.04	-38.04	-53.96	-35.30	-45.45	-43.72	-46.62
27-Jun-2008	08:00:00	-38.04	-38.04	-53.98	-35.34	-45.45	-43.72	-46.61
27-Jun-2008	20:00:00	-38.06	-38.06	-53.97	-35.39	-45.45	-43.73	-46.62
28-Jun-2008	08:00:00	-35.00	-35.00	-53.96	-35.44	-45.46	-43.72	-46.61
28-Jun-2008	20:00:00	-35.64	-35.64	-53.96	-35.52	-45.45	-43.72	-46.61
29-Jun-2008	08:00:00	-36.35	-36.35	-53.96	-35.62	-45.45	-43.72	-46.61
29-Jun-2008	20:00:00	-36.82	-36.82	-53.98	-35.68	-45.45	-43.72	-46.60
30-Jun-2008	08:00:00	-37.07	-37.07	-53.97	-34.79	-45.45	-41.38	-38.22
30-Jun-2008	20:00:00	-37.19	-37.19	-53.98	-34.21	-45.45	-42.56	-42.46
1-Jul-2008	08:00:00	-37.56	-37.56	-53.97	-34.26	-45.45	-43.26	-44.76
1-Jul-2008	20:00:00	-37.99	-37.99	-53.97	-34.49	-45.45	-43.89	-46.46
2-Jul-2008	08:00:00	-38.46	-38.46	-53.60	-34.84	-45.44	-43.71	-46.46
2-Jul-2008	20:00:00	-38.81	-38.81	-54.06	-35.17	-45.44	-43.72	-46.45
3-Jul-2008	08:00:00	-39.18	-39.18	-53.69	-35.46	-45.46	-43.72	-46.45
3-Jul-2008	20:00:00	-39.39	-39.39	-54.29	-35.67	-45.45	-43.71	-46.45
4-Jul-2008	08:00:00	-39.68	-39.68	-53.89	-35.86	-45.45	-43.70	-46.46
4-Jul-2008	20:00:00	-39.81	-39.81	-54.35	-35.94	-45.46	-43.70	-46.46
5-Jul-2008	08:00:00	-40.01	-40.01	-54.28	-36.06	-45.45	-43.69	-46.47
5-Jul-2008	20:00:00	-40.13	-40.13	-54.31	-36.19	-45.45	-43.70	-38.97
6-Jul-2008	08:00:00	-40.28	-40.28	-54.34	-34.10	-45.45	-43.70	-35.95
6-Jul-2008	20:00:00	-40.45	-40.45	-54.23	-34.42	-45.46	-32.93	-13.50
7-Jul-2008	08:00:00	-0.14	-0.14	-53.80	-24.30	-45.45	-35.37	-22.02
7-Jul-2008	20:00:00	-0.75	-0.75	-54.26	-20.72	-45.46	-37.04	-32.23
8-Jul-2008	08:00:00	-1.33	-1.33	-54.07	-19.11	-45.45	-38.10	-34.44
8-Jul-2008	20:00:00	-0.22	-0.22	-54.35	-5.68	-45.41	-31.27	-13.62
9-Jul-2008	08:00:00	-0.40	-0.40	-54.36	-3.46	-45.40	-33.01	-23.14
9-Jul-2008	20:00:00	-0.59	-0.59	-54.36	-3.10	-45.46	-34.44	-30.61
10-Jul-2008	08:00:00	-0.42	-0.42	-54.35	-3.00	-45.45	-35.41	-32.75
10-Jul-2008	20:00:00	-0.78	-0.78	-54.35	-3.41	-45.46	-36.47	-35.67
11-Jul-2008	08:00:00	-0.95	-0.95	-54.32	-3.61	-45.45	-37.26	-37.50
11-Jul-2008	20:00:00	-1.50	-1.50	-54.34	-4.77	-45.45	-38.13	-39.42
12-Jul-2008	08:00:00	-2.43	-2.43	-54.10	-5.19	-45.46	-38.84	-40.61
12-Jul-2008	20:00:00	-10.69	-10.69	-54.37	-8.45	-45.46	-39.67	-42.39
13-Jul-2008	08:00:00	-11.87	-11.87	-54.38	-9.13	-45.46	-40.24	-43.51
13-Jul-2008	20:00:00	-16.67	-16.67	-54.35	-11.20	-45.46	-40.94	-45.17
14-Jul-2008	08:00:00	-18.41	-18.41	-54.36	-12.66	-45.45	-41.46	-46.18
14-Jul-2008	20:00:00	-18.59	-18.59	-54.35	-6.30	-45.47	-41.97	-46.49

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
15-Jul-2008	08:00:00	-19.59	-19.59	-54.08	-9.12	-45.47	-42.41	-46.47
15-Jul-2008	20:00:00	-20.89	-20.89	-53.79	-13.86	-45.46	-43.03	-46.49
16-Jul-2008	08:00:00	-22.12	-22.12	-53.64	-16.22	-45.46	-43.38	-46.49
16-Jul-2008	20:00:00	-23.08	-23.08	-54.07	-18.22	-45.46	-43.87	-46.49
17-Jul-2008	08:00:00	-24.00	-24.00	-53.84	-20.26	-45.46	-43.71	-46.49
17-Jul-2008	20:00:00	-24.75	-24.75	-54.28	-21.16	-45.46	-43.71	-46.47
18-Jul-2008	08:00:00	-25.50	-25.50	-54.01	-22.58	-45.46	-43.71	-46.48
18-Jul-2008	20:00:00	-26.11	-26.11	-54.28	-23.10	-45.46	-43.71	-46.48
19-Jul-2008	08:00:00	-26.69	-26.69	-54.24	-24.13	-45.46	-43.71	-46.48
19-Jul-2008	20:00:00	-27.16	-27.16	-54.31	-24.52	-45.46	-43.71	-46.48
20-Jul-2008	08:00:00	-27.55	-27.55	-54.29	-25.05	-45.46	-43.70	-46.49
20-Jul-2008	20:00:00	-27.84	-27.84	-54.27	-25.29	-45.46	-43.70	-46.47
21-Jul-2008	08:00:00	-28.01	-28.01	-54.23	-25.79	-45.45	-43.70	-46.48
21-Jul-2008	20:00:00	-28.36	-28.36	-54.24	-26.24	-45.46	-43.71	-46.48
22-Jul-2008	08:00:00	-28.68	-28.68	-54.05	-26.77	-45.47	-43.70	-46.49
22-Jul-2008	20:00:00	-29.06	-29.06	-54.18	-27.24	-45.46	-43.71	-46.48
23-Jul-2008	08:00:00	-29.38	-29.38	-54.14	-27.76	-45.47	-43.71	-46.49
23-Jul-2008	20:00:00	-29.68	-29.68	-54.32	-28.16	-45.47	-43.70	-46.49
24-Jul-2008	08:00:00	-30.11	-30.11	-54.24	-28.54	-45.47	-43.70	-46.47
24-Jul-2008	20:00:00	-30.65	-30.65	-54.14	-29.02	-45.46	-43.71	-46.46
25-Jul-2008	08:00:00	-31.27	-31.27	-53.83	-29.51	-45.47	-43.71	-46.45
25-Jul-2008	20:00:00	-31.80	-31.80	-54.27	-30.01	-45.47	-43.71	-46.45
26-Jul-2008	08:00:00	-32.22	-32.22	-54.31	-30.40	-45.47	-43.71	-46.46
26-Jul-2008	20:00:00	-32.45	-32.45	-54.29	-30.68	-45.47	-43.71	-46.45
27-Jul-2008	08:00:00	-32.67	-32.67	-54.13	-30.92	-45.47	-43.71	-46.45
27-Jul-2008	20:00:00	-32.81	-32.81	-54.30	-31.11	-45.46	-43.70	-46.45
28-Jul-2008	08:00:00	-26.26	-26.26	-54.28	-31.21	-45.48	-39.46	-44.79
28-Jul-2008	20:00:00	-27.97	-27.97	-54.30	-31.12	-45.47	-41.68	-46.44
29-Jul-2008	08:00:00	-29.22	-29.22	-54.20	-30.78	-45.47	-42.85	-46.44
29-Jul-2008	20:00:00	-30.13	-30.13	-54.30	-30.48	-45.47	-43.71	-46.44
30-Jul-2008	08:00:00	-30.85	-30.85	-54.30	-30.17	-45.46	-43.70	-46.44
30-Jul-2008	20:00:00	-31.38	-31.38	-54.26	-29.89	-45.46	-43.70	-46.42
31-Jul-2008	08:00:00	-31.82	-31.82	-54.26	-29.61	-45.46	-43.71	-46.44
31-Jul-2008	20:00:00	-32.23	-32.23	-54.21	-29.40	-45.47	-43.72	-46.44
1-Aug-2008	08:00:00	-32.75	-32.75	-54.26	-29.36	-45.47	-43.70	-46.45
1-Aug-2008	20:00:00	-33.35	-33.35	-54.25	-29.56	-45.47	-43.70	-46.44
2-Aug-2008	08:00:00	-33.95	-33.95	-54.27	-29.72	-45.48	-43.70	-46.45
2-Aug-2008	20:00:00	-34.38	-34.38	-54.08	-29.99	-45.47	-43.71	-46.46
3-Aug-2008	08:00:00	-34.85	-34.85	-53.80	-30.32	-45.47	-43.71	-46.47
3-Aug-2008	20:00:00	-35.33	-35.33	-53.94	-30.88	-45.48	-43.71	-46.48
4-Aug-2008	08:00:00	-35.77	-35.77	-53.80	-31.31	-45.47	-43.71	-46.48
4-Aug-2008	20:00:00	-36.12	-36.12	-54.28	-31.73	-45.48	-43.70	-46.47
5-Aug-2008	08:00:00	-36.36	-36.36	-54.26	-31.98	-45.47	-43.70	-46.48
5-Aug-2008	20:00:00	-36.61	-36.61	-54.29	-32.29	-45.47	-43.71	-46.47
6-Aug-2008	08:00:00	-36.73	-36.73	-54.28	-32.45	-45.48	-43.70	-46.48
6-Aug-2008	20:00:00	-36.87	-36.87	-54.23	-32.67	-45.46	-43.71	-46.46
7-Aug-2008	08:00:00	-37.02	-37.02	-54.25	-32.84	-45.48	-43.70	-46.47
7-Aug-2008	20:00:00	-37.13	-37.13	-54.20	-33.02	-45.47	-43.70	-46.46
8-Aug-2008	08:00:00	-37.32	-37.32	-54.25	-33.23	-45.48	-43.71	-46.47

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
8-Aug-2008	20:00:00	-37.64	-37.64	-54.23	-33.56	-45.48	-43.71	-46.46
9-Aug-2008	08:00:00	-38.07	-38.07	-53.84	-33.90	-45.48	-43.71	-46.46
9-Aug-2008	20:00:00	-38.41	-38.41	-54.26	-34.26	-45.48	-43.70	-46.46
10-Aug-2008	08:00:00	-38.73	-38.73	-54.24	-34.57	-45.48	-43.71	-46.47
10-Aug-2008	20:00:00	-38.98	-38.98	-54.30	-34.87	-45.49	-43.70	-46.45
11-Aug-2008	08:00:00	-39.15	-39.15	-54.30	-35.18	-45.47	-43.71	-46.46
11-Aug-2008	20:00:00	-39.38	-39.38	-54.30	-35.53	-45.47	-43.71	-46.47
12-Aug-2008	08:00:00	-39.82	-39.82	-53.98	-35.90	-45.47	-43.70	-46.47
12-Aug-2008	20:00:00	-40.16	-40.16	-54.30	-36.27	-45.48	-43.70	-46.45
13-Aug-2008	08:00:00	-40.49	-40.49	-54.29	-36.58	-45.48	-43.70	-46.46
13-Aug-2008	20:00:00	-40.76	-40.76	-54.28	-36.86	-45.47	-43.70	-46.47
14-Aug-2008	08:00:00	-41.13	-41.13	-54.18	-37.34	-45.48	-43.72	-46.46
14-Aug-2008	20:00:00	-41.55	-41.55	-53.81	-38.06	-45.48	-43.70	-46.45
15-Aug-2008	08:00:00	-42.03	-42.03	-53.82	-38.59	-45.47	-43.70	-46.47
15-Aug-2008	20:00:00	-42.39	-42.39	-54.07	-38.94	-45.47	-43.71	-46.45
16-Aug-2008	08:00:00	-42.74	-42.74	-53.83	-39.12	-45.48	-43.69	-46.45
16-Aug-2008	20:00:00	-43.01	-43.01	-54.26	-39.33	-45.47	-43.70	-46.47
17-Aug-2008	08:00:00	-43.23	-43.23	-53.79	-39.58	-45.47	-43.70	-46.47
17-Aug-2008	20:00:00	-43.36	-43.36	-54.28	-39.77	-45.48	-43.71	-46.46
18-Aug-2008	08:00:00	-43.55	-43.55	-53.91	-40.00	-45.47	-43.71	-46.47
18-Aug-2008	20:00:00	-43.67	-43.67	-54.27	-40.18	-45.47	-43.69	-46.46
19-Aug-2008	08:00:00	-43.87	-43.87	-54.06	-40.36	-45.47	-43.70	-46.46
19-Aug-2008	20:00:00	-43.74	-43.74	-54.24	-40.50	-45.48	-43.71	-46.46
20-Aug-2008	08:00:00	-43.72	-43.72	-53.81	-40.71	-45.47	-43.71	-46.46
20-Aug-2008	20:00:00	-43.72	-43.72	-53.88	-40.93	-45.46	-43.71	-46.45
21-Aug-2008	08:00:00	-43.74	-43.74	-53.82	-41.13	-45.47	-43.70	-46.45
21-Aug-2008	20:00:00	-43.77	-43.77	-54.09	-41.33	-45.47	-43.71	-46.46
22-Aug-2008	08:00:00	-43.78	-43.78	-53.84	-41.53	-45.48	-43.72	-46.47
22-Aug-2008	20:00:00	-43.79	-43.79	-54.19	-41.71	-45.47	-43.70	-46.46
23-Aug-2008	08:00:00	-43.81	-43.81	-53.99	-41.89	-45.46	-43.71	-46.45
23-Aug-2008	20:00:00	-43.83	-43.83	-54.32	-41.96	-45.47	-43.70	-46.45
24-Aug-2008	08:00:00	-43.74	-43.74	-54.32	-42.07	-45.47	-43.71	-46.46
24-Aug-2008	20:00:00	-43.73	-43.73	-54.17	-42.10	-45.49	-43.71	-46.45
25-Aug-2008	08:00:00	-43.73	-43.73	-54.18	-42.26	-45.47	-43.70	-46.47
25-Aug-2008	20:00:00	-43.74	-43.74	-54.14	-42.42	-45.47	-43.70	-46.46
26-Aug-2008	08:00:00	-43.74	-43.74	-54.19	-42.64	-45.48	-43.72	-46.45
26-Aug-2008	20:00:00	-43.74	-43.74	-54.23	-42.89	-45.48	-43.71	-46.46
27-Aug-2008	08:00:00	-43.74	-43.74	-54.21	-43.09	-45.47	-43.70	-46.46
27-Aug-2008	20:00:00	-43.74	-43.74	-54.22	-43.24	-45.47	-43.71	-46.46
28-Aug-2008	08:00:00	-43.75	-43.75	-54.15	-43.43	-45.47	-43.70	-46.47
28-Aug-2008	20:00:00	-43.75	-43.75	-54.14	-43.64	-45.47	-43.70	-46.45
29-Aug-2008	08:00:00	-43.74	-43.74	-54.17	-43.88	-45.47	-43.71	-46.46
29-Aug-2008	20:00:00	-43.74	-43.74	-54.17	-44.11	-45.48	-43.71	-46.45
30-Aug-2008	08:00:00	-43.73	-43.73	-54.30	-44.35	-45.48	-43.71	-46.46
30-Aug-2008	20:00:00	-43.73	-43.73	-54.30	-44.58	-45.48	-43.72	-46.45
31-Aug-2008	08:00:00	-43.60	-43.60	-54.30	-44.81	-45.48	-43.71	-46.45
31-Aug-2008	20:00:00	-43.91	-43.91	-54.31	-45.07	-45.47	-43.71	-46.45
1-Sep-2008	08:00:00	-43.49	-43.49	-53.90	-45.31	-45.49	-43.73	-46.45
1-Sep-2008	20:00:00	-44.04	-44.04	-54.32	-45.59	-45.48	-43.71	-46.45



Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
2-Sep-2008	08:00:00	-44.03	-44.03	-54.31	-45.91	-45.48	-43.71	-46.46
2-Sep-2008	20:00:00	-44.11	-44.11	-54.29	-46.19	-45.47	-43.70	-46.46
3-Sep-2008	08:00:00	-44.10	-44.10	-54.30	-46.50	-45.48	-43.71	-46.45
3-Sep-2008	20:00:00	-43.75	-43.75	-54.21	-46.74	-45.47	-43.70	-46.45
4-Sep-2008	08:00:00	-43.74	-43.74	-54.31	-47.12	-45.48	-43.71	-46.47
4-Sep-2008	20:00:00	-43.74	-43.74	-54.29	-47.26	-45.48	-43.71	-46.45
5-Sep-2008	08:00:00	-43.74	-43.74	-54.33	-47.47	-45.48	-43.72	-46.46
5-Sep-2008	20:00:00	-43.75	-43.75	-54.18	-47.63	-45.48	-43.71	-46.45
6-Sep-2008	08:00:00	-41.61	-41.61	-54.05	-40.12	-45.48	-43.70	-34.52
6-Sep-2008	20:00:00	-23.99	-23.99	-54.16	-19.70	-45.47	-43.71	-35.66
7-Sep-2008	08:00:00	-27.06	-27.06	-54.30	-23.83	-45.48	-43.70	-39.54
7-Sep-2008	20:00:00	-29.39	-29.39	-54.32	-26.47	-45.47	-43.71	-42.67
8-Sep-2008	08:00:00	-31.30	-31.30	-53.85	-28.35	-45.47	-43.71	-44.45
8-Sep-2008	20:00:00	-33.13	-33.13	-54.28	-29.81	-45.48	-43.71	-46.33
9-Sep-2008	08:00:00	-35.50	-35.50	-54.34	-31.00	-45.48	-43.70	-46.46
9-Sep-2008	20:00:00	-37.36	-37.36	-54.32	-32.08	-45.47	-43.70	-46.45
10-Sep-2008	08:00:00	-39.03	-39.03	-54.30	-33.11	-45.48	-43.71	-46.47
10-Sep-2008	20:00:00	-40.36	-40.36	-53.97	-34.09	-45.48	-43.71	-46.47
11-Sep-2008	08:00:00	-41.53	-41.53	-53.85	-34.96	-45.49	-43.71	-46.48
11-Sep-2008	20:00:00	-42.98	-42.98	-54.27	-35.81	-45.48	-43.71	-46.47
12-Sep-2008	08:00:00	-43.74	-43.74	-54.31	-36.59	-45.50	-43.71	-46.46
12-Sep-2008	20:00:00	-44.10	-44.10	-54.28	-37.43	-45.48	-43.71	-46.45
13-Sep-2008	08:00:00	-44.10	-44.10	-54.24	-38.59	-45.82	-43.72	-46.47
13-Sep-2008	20:00:00	-43.80	-43.80	-54.17	-39.42	-45.76	-43.71	-46.45
14-Sep-2008	08:00:00	-43.81	-43.81	-54.19	-40.14	-45.72	-43.71	-46.45
14-Sep-2008	20:00:00	-43.84	-43.84	-54.11	-40.82	-45.78	-43.72	-46.44
15-Sep-2008	08:00:00	-43.83	-43.83	-54.14	-41.38	-45.78	-43.71	-46.46
15-Sep-2008	20:00:00	-43.84	-43.84	-54.17	-42.02	-45.80	-43.70	-46.48
16-Sep-2008	08:00:00	-43.80	-43.80	-54.28	-42.59	-45.80	-43.72	-46.47
16-Sep-2008	20:00:00	-43.80	-43.80	-54.32	-43.19	-45.78	-43.71	-46.49
17-Sep-2008	08:00:00	-43.81	-43.81	-54.33	-43.70	-45.72	-43.71	-46.49
17-Sep-2008	20:00:00	-43.82	-43.82	-54.34	-44.26	-45.82	-43.70	-46.45
18-Sep-2008	08:00:00	-43.82	-43.82	-54.33	-44.75	-45.81	-43.71	-46.46
18-Sep-2008	20:00:00	-43.79	-43.79	-54.16	-45.36	-45.78	-43.71	-46.45
19-Sep-2008	08:00:00	-43.62	-43.62	-53.86	-46.04	-45.22	-43.71	-46.46
19-Sep-2008	20:00:00	-43.84	-43.84	-54.09	-46.82	-45.64	-43.71	-46.45
20-Sep-2008	08:00:00	-43.98	-43.98	-54.16	-47.25	-45.74	-43.71	-46.46
20-Sep-2008	20:00:00	-44.10	-44.10	-54.26	-47.59	-45.81	-43.71	-46.46
21-Sep-2008	08:00:00	-43.80	-43.80	-53.84	-47.93	-45.69	-43.71	-46.46
21-Sep-2008	20:00:00	-43.72	-43.72	-53.96	-47.26	-45.71	-43.71	-46.45
22-Sep-2008	08:00:00	-43.73	-43.73	-53.85	-47.25	-45.50	-43.71	-46.47
22-Sep-2008	20:00:00	-43.77	-43.77	-53.89	-47.26	-45.40	-43.71	-46.45
23-Sep-2008	08:00:00	-43.66	-43.66	-53.88	-47.25	-45.29	-43.71	-46.45
23-Sep-2008	20:00:00	-43.89	-43.89	-54.05	-47.25	-45.57	-43.70	-46.45
24-Sep-2008	08:00:00	-44.00	-44.00	-54.05	-47.27	-45.57	-43.71	-46.46
24-Sep-2008	20:00:00	-44.22	-44.22	-54.34	-47.28	-45.80	-43.71	-46.45
25-Sep-2008	08:00:00	-44.22	-44.22	-54.35	-47.32	-45.76	-43.70	-46.45
25-Sep-2008	20:00:00	-44.11	-44.11	-54.20	-47.35	-45.65	-43.70	-46.46
26-Sep-2008	08:00:00	-43.89	-43.89	-54.20	-47.34	-45.66	-43.71	-46.45

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
26-Sep-2008	20:00:00	-0.66	-0.66	-54.22	-8.67	-42.63	-37.60	-39.75
27-Sep-2008	08:00:00	-1.09	-1.09	-54.27	-5.29	-45.36	-41.08	-42.84
27-Sep-2008	20:00:00	-2.71	-2.71	-54.24	-4.58	-45.76	-43.19	-45.14
28-Sep-2008	08:00:00	-1.26	-1.26	-54.25	-4.80	-45.79	-43.66	-45.01
28-Sep-2008	20:00:00	-3.00	-3.00	-54.26	-5.25	-45.78	-43.66	-46.45
29-Sep-2008	08:00:00	-4.08	-4.08	-54.35	-5.70	-45.77	-43.67	-46.46
29-Sep-2008	20:00:00	-8.12	-8.12	-54.30	-7.37	-45.81	-43.68	-46.46
30-Sep-2008	08:00:00	-11.26	-11.26	-54.24	-7.96	-45.80	-43.68	-46.46
30-Sep-2008	20:00:00	-14.41	-14.41	-54.17	-7.91	-45.69	-43.67	-46.46
1-Oct-2008	08:00:00	-12.73	-12.73	-54.13	-7.33	-45.65	-43.67	-46.47
1-Oct-2008	20:00:00	-15.60	-15.60	-54.10	-8.12	-45.63	-43.67	-46.45
2-Oct-2008	08:00:00	-18.32	-18.32	-54.18	-8.79	-45.78	-43.70	-46.47
2-Oct-2008	20:00:00	-20.63	-20.63	-54.20	-10.17	-45.80	-43.69	-46.46
3-Oct-2008	08:00:00	-22.42	-22.42	-54.32	-10.36	-45.50	-43.71	-46.48
3-Oct-2008	20:00:00	-24.04	-24.04	-54.36	-11.97	-45.25	-43.71	-46.46
4-Oct-2008	08:00:00	-25.48	-25.48	-53.85	-12.71	-45.32	-43.73	-46.46
4-Oct-2008	20:00:00	-26.93	-26.93	-53.89	-13.81	-45.40	-43.73	-46.45
5-Oct-2008	08:00:00	-28.12	-28.12	-53.88	-14.35	-45.34	-43.73	-46.45
5-Oct-2008	20:00:00	-29.69	-29.69	-54.33	-15.12	-45.80	-43.73	-46.46
6-Oct-2008	08:00:00	-30.55	-30.55	-53.98	-15.67	-45.52	-43.74	-46.46
6-Oct-2008	20:00:00	-31.67	-31.67	-53.84	-16.64	-45.42	-43.73	-46.46
7-Oct-2008	08:00:00	-32.79	-32.79	-53.87	-17.08	-45.34	-43.75	-46.45
7-Oct-2008	20:00:00	-34.67	-34.67	-54.40	-17.88	-45.85	-43.73	-46.46
8-Oct-2008	08:00:00	-35.91	-35.91	-54.39	-18.22	-45.85	-43.73	-46.46
8-Oct-2008	20:00:00	-37.13	-37.13	-54.25	-18.51	-45.70	-43.72	-46.45
9-Oct-2008	08:00:00	-38.12	-38.12	-54.24	-17.95	-45.69	-43.72	-46.47
9-Oct-2008	20:00:00	-38.93	-38.93	-54.23	-18.00	-45.70	-43.71	-46.45
10-Oct-2008	08:00:00	-39.52	-39.52	-54.34	-14.02	-45.79	-43.72	-46.45
10-Oct-2008	20:00:00	-40.34	-40.34	-54.39	-10.32	-45.82	-43.74	-46.46
11-Oct-2008	08:00:00	-41.14	-41.14	-54.03	-11.97	-45.67	-43.73	-46.46
11-Oct-2008	20:00:00	-41.99	-41.99	-53.89	-13.85	-45.33	-43.76	-46.46
12-Oct-2008	08:00:00	-42.88	-42.88	-53.89	-14.98	-45.33	-43.76	-46.47
12-Oct-2008	20:00:00	-43.50	-43.50	-53.86	-16.09	-45.39	-43.75	-46.47
13-Oct-2008	08:00:00	-43.93	-43.93	-54.09	-17.21	-45.61	-43.75	-46.46
13-Oct-2008	20:00:00	-44.20	-44.20	-54.39	-17.66	-45.85	-43.74	-46.45
14-Oct-2008	08:00:00	-44.19	-44.19	-54.40	-18.49	-45.83	-43.74	-46.46
14-Oct-2008	20:00:00	-43.86	-43.86	-54.25	-18.87	-45.70	-43.72	-46.47
15-Oct-2008	08:00:00	-43.86	-43.86	-54.27	-19.66	-45.70	-43.72	-46.47
15-Oct-2008	20:00:00	-43.86	-43.86	-54.22	-20.14	-45.66	-43.71	-46.46
16-Oct-2008	08:00:00	-43.87	-43.87	-54.22	-20.84	-45.65	-43.71	-46.46
16-Oct-2008	20:00:00	-43.87	-43.87	-54.18	-21.34	-45.60	-43.71	-46.45
17-Oct-2008	08:00:00	-43.85	-43.85	-54.21	-21.91	-45.65	-43.73	-46.46
17-Oct-2008	20:00:00	-43.86	-43.86	-54.22	-22.41	-45.67	-43.74	-46.46
18-Oct-2008	08:00:00	-43.87	-43.87	-54.22	-6.94	-45.63	-43.73	-44.42
18-Oct-2008	20:00:00	-43.85	-43.85	-54.30	-9.96	-45.69	-43.74	-46.48
19-Oct-2008	08:00:00	-43.85	-43.85	-54.39	-13.08	-45.78	-43.75	-46.49
19-Oct-2008	20:00:00	-43.85	-43.85	-54.07	-15.11	-45.71	-43.75	-46.49
20-Oct-2008	08:00:00	-43.85	-43.85	-53.90	-16.56	-45.35	-43.76	-46.50
20-Oct-2008	20:00:00	-43.87	-43.87	-54.41	-16.40	-45.79	-43.73	-46.48

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
21-Oct-2008	08:00:00	-43.88	-43.88	-54.39	-16.67	-45.77	-43.73	-46.47
21-Oct-2008	20:00:00	-43.87	-43.87	-54.37	-15.99	-45.75	-43.73	-46.46
22-Oct-2008	08:00:00	-43.85	-43.85	-53.88	-17.53	-45.27	-43.76	-46.49
22-Oct-2008	20:00:00	-43.84	-43.84	-53.88	-18.16	-45.24	-43.74	-46.50
23-Oct-2008	08:00:00	-43.84	-43.84	-53.91	-19.42	-45.26	-43.77	-46.52
23-Oct-2008	20:00:00	-43.84	-43.84	-54.15	-18.86	-45.61	-43.76	-46.49
24-Oct-2008	08:00:00	-43.84	-43.84	-54.41	-19.35	-45.80	-43.76	-46.49
24-Oct-2008	20:00:00	-43.86	-43.86	-54.26	-17.74	-45.67	-43.73	-46.46
25-Oct-2008	08:00:00	-43.90	-43.90	-54.15	-13.21	-45.54	-43.70	-46.43
25-Oct-2008	20:00:00	-43.89	-43.89	-54.12	-5.09	-45.53	-43.70	-46.45
26-Oct-2008	08:00:00	-43.87	-43.87	-54.16	-9.26	-45.59	-43.72	-46.47
26-Oct-2008	20:00:00	-43.88	-43.88	-54.17	-11.01	-45.57	-43.70	-46.46
27-Oct-2008	08:00:00	-43.91	-43.91	-54.15	-13.17	-45.58	-43.72	-46.45
27-Oct-2008	20:00:00	-43.89	-43.89	-54.16	-7.75	-45.60	-43.73	-46.47
28-Oct-2008	08:00:00	-43.91	-43.91	-54.15	-7.75	-45.58	-43.71	-46.47
28-Oct-2008	20:00:00	-43.88	-43.88	-54.20	-10.12	-45.63	-43.73	-46.47
29-Oct-2008	08:00:00	-43.87	-43.87	-54.22	-12.81	-45.64	-43.72	-46.49
29-Oct-2008	20:00:00	-43.87	-43.87	-54.26	-13.72	-45.69	-43.73	-46.48
30-Oct-2008	08:00:00	-43.82	-43.82	-53.87	-15.93	-45.24	-43.76	-46.50
30-Oct-2008	20:00:00	-43.83	-43.83	-53.87	-16.46	-45.26	-43.75	-46.52
31-Oct-2008	08:00:00	-43.83	-43.83	-53.88	-17.74	-45.26	-43.75	-46.53
31-Oct-2008	20:00:00	-43.89	-43.89	-54.40	-16.69	-45.80	-43.74	-46.49
1-Nov-2008	08:00:00	-44.18	-44.18	-54.34	-17.18	-45.73	-43.74	-46.49
1-Nov-2008	20:00:00	-43.85	-43.85	-54.26	-16.17	-45.66	-43.72	-46.48
2-Nov-2008	08:00:00	-43.83	-43.83	-54.32	-17.46	-45.73	-43.74	-46.50
2-Nov-2008	20:00:00	-43.82	-43.82	-54.36	-17.19	-45.76	-43.73	-46.50
3-Nov-2008	08:00:00	-43.83	-43.83	-54.27	-17.07	-45.77	-43.73	-46.49
3-Nov-2008	20:00:00	-43.85	-43.85	-54.38	-15.71	-45.76	-43.73	-46.48
4-Nov-2008	08:00:00	-43.87	-43.87	-54.30	-4.26	-45.67	-43.72	-46.47
4-Nov-2008	20:00:00	-43.89	-43.89	-54.20	-3.10	-45.60	-43.71	-46.48
5-Nov-2008	08:00:00	-39.23	-39.23	-54.14	-3.73	-45.55	-43.70	-46.44
5-Nov-2008	20:00:00	-36.08	-36.08	-54.12	-4.86	-45.56	-43.69	-46.46
6-Nov-2008	08:00:00	-35.22	-35.22	-54.10	-6.13	-45.55	-43.70	-46.45
6-Nov-2008	20:00:00	-35.46	-35.46	-54.11	-6.81	-45.56	-43.70	-46.47
7-Nov-2008	08:00:00	-36.12	-36.12	-54.11	-8.45	-45.56	-43.70	-46.47
7-Nov-2008	20:00:00	-36.92	-36.92	-54.08	-8.15	-45.53	-43.67	-46.44
8-Nov-2008	08:00:00	-37.62	-37.62	-54.08	-9.12	-45.53	-43.69	-46.44
8-Nov-2008	20:00:00	-27.29	-27.29	-54.06	-3.81	-45.52	-43.68	-46.45
9-Nov-2008	08:00:00	-26.11	-26.11	-54.08	-6.06	-45.43	-43.71	-46.48
9-Nov-2008	20:00:00	-26.20	-26.20	-54.09	-7.17	-45.26	-43.71	-46.48
10-Nov-2008	08:00:00	-27.08	-27.08	-54.16	-9.79	-45.27	-43.72	-46.50
10-Nov-2008	20:00:00	-27.99	-27.99	-54.20	-9.98	-45.32	-43.71	-46.50
11-Nov-2008	08:00:00	-29.11	-29.11	-54.30	-12.19	-45.27	-43.73	-46.51
11-Nov-2008	20:00:00	-30.08	-30.08	-54.32	-11.67	-45.60	-43.72	-46.51
12-Nov-2008	08:00:00	-30.97	-30.97	-54.18	-11.90	-45.38	-43.72	-46.51
12-Nov-2008	20:00:00	-31.74	-31.74	-54.32	-10.97	-45.78	-43.71	-46.51
13-Nov-2008	08:00:00	-32.41	-32.41	-54.24	-9.88	-45.71	-43.68	-46.48
13-Nov-2008	20:00:00							
14-Nov-2008	08:00:00							

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
14-Nov-2008	20:00:00							
15-Nov-2008	08:00:00							
15-Nov-2008	20:00:00							
16-Nov-2008	08:00:00							
16-Nov-2008	20:00:00							
17-Nov-2008	08:00:00							
17-Nov-2008	20:00:00							
18-Nov-2008	08:00:00							
18-Nov-2008	20:00:00							
19-Nov-2008	08:00:00							
19-Nov-2008	20:00:00							
20-Nov-2008	08:00:00							
20-Nov-2008	20:00:00							
21-Nov-2008	08:00:00							
21-Nov-2008	20:00:00							
22-Nov-2008	08:00:00							
22-Nov-2008	20:00:00							
23-Nov-2008	08:00:00							
23-Nov-2008	20:00:00							
24-Nov-2008	08:00:00							
24-Nov-2008	20:00:00							
25-Nov-2008	08:00:00							
25-Nov-2008	20:00:00							
26-Nov-2008	08:00:00							
26-Nov-2008	20:00:00							
27-Nov-2008	08:00:00							
27-Nov-2008	20:00:00							
28-Nov-2008	08:00:00							
28-Nov-2008	20:00:00							
29-Nov-2008	08:00:00							
29-Nov-2008	20:00:00							
30-Nov-2008	08:00:00							
30-Nov-2008	20:00:00							
1-Dec-2008	08:00:00							
1-Dec-2008	20:00:00							
2-Dec-2008	08:00:00							
2-Dec-2008	20:00:00							
3-Dec-2008	08:00:00							
3-Dec-2008	20:00:00							
4-Dec-2008	08:00:00							
4-Dec-2008	20:00:00							
5-Dec-2008	08:00:00							
5-Dec-2008	20:00:00							
6-Dec-2008	08:00:00							
6-Dec-2008	20:00:00							
7-Dec-2008	08:00:00							
7-Dec-2008	20:00:00							
8-Dec-2008	08:00:00							
8-Dec-2008	20:00:00							

					Weatherstation Rainfall Data	
Date	Time				Enfield Daily Rainfall	Enfield Monthly Rainfall
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge		
01-Jan-2008	08:00:00				0	
01-Jan-2008	20:00:00					
02-Jan-2008	08:00:00				0	
02-Jan-2008	20:00:00					
03-Jan-2008	08:00:00				0	
03-Jan-2008	20:00:00					
04-Jan-2008	08:00:00				0	
04-Jan-2008	20:00:00					
05-Jan-2008	08:00:00				0	
05-Jan-2008	20:00:00					
06-Jan-2008	08:00:00				0	
06-Jan-2008	20:00:00					
07-Jan-2008	08:00:00				0	
07-Jan-2008	20:00:00					
08-Jan-2008	08:00:00				0	
08-Jan-2008	20:00:00					
09-Jan-2008	08:00:00				0	
09-Jan-2008	20:00:00					
10-Jan-2008	08:00:00				0	
10-Jan-2008	20:00:00					
11-Jan-2008	08:00:00				0	
11-Jan-2008	20:00:00					
12-Jan-2008	08:00:00				0	
12-Jan-2008	20:00:00					
13-Jan-2008	08:00:00				0	
13-Jan-2008	20:00:00					
14-Jan-2008	08:00:00				0	
14-Jan-2008	20:00:00					
15-Jan-2008	08:00:00				0	
15-Jan-2008	20:00:00					
16-Jan-2008	08:00:00				0	
16-Jan-2008	20:00:00					
17-Jan-2008	08:00:00				0.06	
17-Jan-2008	20:00:00					
18-Jan-2008	08:00:00				0.44	
18-Jan-2008	20:00:00					
19-Jan-2008	08:00:00				0.04	
19-Jan-2008	20:00:00					
20-Jan-2008	08:00:00				0.43	
20-Jan-2008	20:00:00					
21-Jan-2008	08:00:00				0	
21-Jan-2008	20:00:00					
22-Jan-2008	08:00:00				0	
22-Jan-2008	20:00:00					
23-Jan-2008	08:00:00				0.16	
23-Jan-2008	20:00:00					
24-Jan-2008	08:00:00				0	
24-Jan-2008	20:00:00					
25-Jan-2008	08:00:00				0	

					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
25-Jan-2008	20:00:00					
26-Jan-2008	08:00:00				0	
26-Jan-2008	20:00:00					
27-Jan-2008	08:00:00				0	
27-Jan-2008	20:00:00					
28-Jan-2008	08:00:00				0	
28-Jan-2008	20:00:00					
29-Jan-2008	08:00:00				0	
29-Jan-2008	20:00:00					
30-Jan-2008	08:00:00				0.06	
30-Jan-2008	20:00:00					
31-Jan-2008	08:00:00				0	
31-Jan-2008	20:00:00					1.19
01-Feb-2008	08:00:00				0.42	
01-Feb-2008	20:00:00					
02-Feb-2008	08:00:00				0.63	
02-Feb-2008	20:00:00					
03-Feb-2008	08:00:00				0	
03-Feb-2008	20:00:00					
04-Feb-2008	08:00:00				0	
04-Feb-2008	20:00:00					
05-Feb-2008	08:00:00				0.02	
05-Feb-2008	20:00:00					
06-Feb-2008	08:00:00				0	
06-Feb-2008	20:00:00					
07-Feb-2008	08:00:00				0.01	
07-Feb-2008	20:00:00					
08-Feb-2008	08:00:00				0	
08-Feb-2008	20:00:00					
09-Feb-2008	08:00:00				0	
09-Feb-2008	20:00:00					
10-Feb-2008	08:00:00				0	
10-Feb-2008	20:00:00					
11-Feb-2008	08:00:00				0	
11-Feb-2008	20:00:00					
12-Feb-2008	08:00:00				0	
12-Feb-2008	20:00:00					
13-Feb-2008	08:00:00				0.41	
13-Feb-2008	20:00:00					
14-Feb-2008	08:00:00				0.61	
14-Feb-2008	20:00:00					
15-Feb-2008	08:00:00				0	
15-Feb-2008	20:00:00					
16-Feb-2008	08:00:00				0	
16-Feb-2008	20:00:00					
17-Feb-2008	08:00:00				0	
17-Feb-2008	20:00:00					
18-Feb-2008	08:00:00				0.83	
18-Feb-2008	20:00:00					

					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
19-Feb-2008	08:00:00				0	
19-Feb-2008	20:00:00					
20-Feb-2008	08:00:00	0.55	1.25	9.25	0	
20-Feb-2008	20:00:00					
21-Feb-2008	08:00:00				0	
21-Feb-2008	20:00:00					
22-Feb-2008	08:00:00				0.25	
22-Feb-2008	20:00:00					
23-Feb-2008	08:00:00				0.25	
23-Feb-2008	20:00:00					
24-Feb-2008	08:00:00				0.14	
24-Feb-2008	20:00:00					
25-Feb-2008	08:00:00				0.01	
25-Feb-2008	20:00:00					
26-Feb-2008	08:00:00				0	
26-Feb-2008	20:00:00					
27-Feb-2008	08:00:00				0.57	
27-Feb-2008	20:00:00					
28-Feb-2008	08:00:00				0	
28-Feb-2008	20:00:00					
29-Feb-2008	08:00:00				0	
29-Feb-2008	20:00:00					4.15
1-Mar-2008	08:00:00					
1-Mar-2008	20:00:00					
2-Mar-2008	08:00:00				0	
2-Mar-2008	20:00:00					
3-Mar-2008	08:00:00				0	
3-Mar-2008	20:00:00					
4-Mar-2008	08:00:00				0	
4-Mar-2008	20:00:00					
5-Mar-2008	08:00:00				1.13	
5-Mar-2008	20:00:00					
6-Mar-2008	08:00:00				0	
6-Mar-2008	20:00:00					
7-Mar-2008	08:00:00				0	
7-Mar-2008	20:00:00					
8-Mar-2008	08:00:00				1.53	
8-Mar-2008	20:00:00					
9-Mar-2008	08:00:00				0.16	
9-Mar-2008	20:00:00					
10-Mar-2008	08:00:00				0	
10-Mar-2008	20:00:00					
11-Mar-2008	08:00:00				0	
11-Mar-2008	20:00:00					
12-Mar-2008	08:00:00				0	
12-Mar-2008	20:00:00					
13-Mar-2008	08:00:00				0	
13-Mar-2008	20:00:00					
14-Mar-2008	08:00:00				0	

					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
14-Mar-2008	20:00:00					
15-Mar-2008	08:00:00				0	
15-Mar-2008	20:00:00					
16-Mar-2008	08:00:00				0.59	
16-Mar-2008	20:00:00					
17-Mar-2008	08:00:00				0	
17-Mar-2008	20:00:00					
18-Mar-2008	08:00:00				0	
18-Mar-2008	20:00:00					
19-Mar-2008	08:00:00				0	
19-Mar-2008	20:00:00					
20-Mar-2008	08:00:00				0.04	
20-Mar-2008	20:00:00					
21-Mar-2008	08:00:00				0	
21-Mar-2008	20:00:00					
22-Mar-2008	08:00:00				0	
22-Mar-2008	20:00:00					
23-Mar-2008	08:00:00				0	
23-Mar-2008	20:00:00					
24-Mar-2008	08:00:00				0	
24-Mar-2008	20:00:00					
25-Mar-2008	08:00:00	0.92	1.70	1.35	0	
25-Mar-2008	20:00:00					
26-Mar-2008	08:00:00				0	
26-Mar-2008	20:00:00					
27-Mar-2008	08:00:00				0	
27-Mar-2008	20:00:00					
28-Mar-2008	08:00:00				0	
28-Mar-2008	20:00:00					
29-Mar-2008	08:00:00				0.02	
29-Mar-2008	20:00:00					
30-Mar-2008	08:00:00				0.31	
30-Mar-2008	20:00:00					
31-Mar-2008	08:00:00				0.39	
31-Mar-2008	20:00:00					4.17
1-Apr-2008	08:00:00				0.17	
1-Apr-2008	20:00:00					
2-Apr-2008	08:00:00				0.16	
2-Apr-2008	20:00:00					
3-Apr-2008	08:00:00				0	
3-Apr-2008	20:00:00					
4-Apr-2008	08:00:00				0.37	
4-Apr-2008	20:00:00					
5-Apr-2008	08:00:00				0.7	
5-Apr-2008	20:00:00					
6-Apr-2008	08:00:00				0.8	
6-Apr-2008	20:00:00					
7-Apr-2008	08:00:00				0	
7-Apr-2008	20:00:00					



					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
8-Apr-2008	08:00:00				0	
8-Apr-2008	20:00:00					
9-Apr-2008	08:00:00				0	
9-Apr-2008	20:00:00					
10-Apr-2008	08:00:00				0	
10-Apr-2008	20:00:00					
11-Apr-2008	08:00:00				0	
11-Apr-2008	20:00:00					
12-Apr-2008	08:00:00				0	
12-Apr-2008	20:00:00					
13-Apr-2008	08:00:00				0.14	
13-Apr-2008	20:00:00					
14-Apr-2008	08:00:00				0	
14-Apr-2008	20:00:00					
15-Apr-2008	08:00:00				0	
15-Apr-2008	20:00:00					
16-Apr-2008	08:00:00				0	
16-Apr-2008	20:00:00					
17-Apr-2008	08:00:00				0	
17-Apr-2008	20:00:00					
18-Apr-2008	08:00:00				0	
18-Apr-2008	20:00:00					
19-Apr-2008	08:00:00				0	
19-Apr-2008	20:00:00					
20-Apr-2008	08:00:00				0.51	
20-Apr-2008	20:00:00					
21-Apr-2008	08:00:00				0.83	
21-Apr-2008	20:00:00					
22-Apr-2008	08:00:00				0.16	
22-Apr-2008	20:00:00					
23-Apr-2008	08:00:00				0.43	
23-Apr-2008	20:00:00					
24-Apr-2008	08:00:00	0.80	0.75	4.2	0	
24-Apr-2008	20:00:00					
25-Apr-2008	08:00:00				0	
25-Apr-2008	20:00:00					
26-Apr-2008	08:00:00				0	
26-Apr-2008	20:00:00					
27-Apr-2008	08:00:00				0.03	
27-Apr-2008	20:00:00					
28-Apr-2008	08:00:00				0.62	
28-Apr-2008	20:00:00					
29-Apr-2008	08:00:00				0.92	
29-Apr-2008	20:00:00					
30-Apr-2008	08:00:00				0	
30-Apr-2008	20:00:00					5.84
1-May-2008	08:00:00				0	
1-May-2008	20:00:00					
2-May-2008	08:00:00				0	

					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
2-May-2008	20:00:00					
3-May-2008	08:00:00				0	
3-May-2008	20:00:00					
4-May-2008	08:00:00				0	
4-May-2008	20:00:00					
5-May-2008	08:00:00				0	
5-May-2008	20:00:00					
6-May-2008	08:00:00				0	
6-May-2008	20:00:00					
7-May-2008	08:00:00				0	
7-May-2008	20:00:00					
8-May-2008	08:00:00				0	
8-May-2008	20:00:00					
9-May-2008	08:00:00				0.56	
9-May-2008	20:00:00					
10-May-2008	08:00:00				0.17	
10-May-2008	20:00:00					
11-May-2008	08:00:00				0	
11-May-2008	20:00:00					
12-May-2008	08:00:00				0.98	
12-May-2008	20:00:00					
13-May-2008	08:00:00				0	
13-May-2008	20:00:00					
14-May-2008	08:00:00				0	
14-May-2008	20:00:00					
15-May-2008	08:00:00				0	
15-May-2008	20:00:00					
16-May-2008	08:00:00				0.17	
16-May-2008	20:00:00					
17-May-2008	08:00:00				0.27	
17-May-2008	20:00:00					
18-May-2008	08:00:00				0	
18-May-2008	20:00:00					
19-May-2008	08:00:00				0.6	
19-May-2008	20:00:00					
20-May-2008	08:00:00				0	
20-May-2008	20:00:00					
21-May-2008	08:00:00				0.08	
21-May-2008	20:00:00					
22-May-2008	08:00:00				0	
22-May-2008	20:00:00					
23-May-2008	08:00:00				0	
23-May-2008	20:00:00					
24-May-2008	08:00:00				0.13	
24-May-2008	20:00:00					
25-May-2008	08:00:00				0.04	
25-May-2008	20:00:00					
26-May-2008	08:00:00				0	
26-May-2008	20:00:00					

					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
27-May-2008	08:00:00				0	
27-May-2008	20:00:00					
28-May-2008	08:00:00				0.37	
28-May-2008	20:00:00					
29-May-2008	08:00:00	0.85	2.1	2.7	0.1	
29-May-2008	20:00:00					
30-May-2008	08:00:00				0	
30-May-2008	20:00:00					
31-May-2008	08:00:00				0	
31-May-2008	20:00:00					3.47
1-Jun-2008	08:00:00				0	
1-Jun-2008	20:00:00					
2-Jun-2008	08:00:00				0	
2-Jun-2008	20:00:00					
3-Jun-2008	08:00:00				0	
3-Jun-2008	20:00:00					
4-Jun-2008	08:00:00				0.01	
4-Jun-2008	20:00:00					
5-Jun-2008	08:00:00				0	
5-Jun-2008	20:00:00					
6-Jun-2008	08:00:00				0	
6-Jun-2008	20:00:00					
7-Jun-2008	08:00:00				0	
7-Jun-2008	20:00:00					
8-Jun-2008	08:00:00				0	
8-Jun-2008	20:00:00					
9-Jun-2008	08:00:00				0	
9-Jun-2008	20:00:00					
10-Jun-2008	08:00:00				0	
10-Jun-2008	20:00:00					
11-Jun-2008	08:00:00				0	
11-Jun-2008	20:00:00					
12-Jun-2008	08:00:00				0	
12-Jun-2008	20:00:00					
13-Jun-2008	08:00:00				0	
13-Jun-2008	20:00:00					
14-Jun-2008	08:00:00				0	
14-Jun-2008	20:00:00					
15-Jun-2008	08:00:00				0.11	
15-Jun-2008	20:00:00					
16-Jun-2008	08:00:00				0.03	
16-Jun-2008	20:00:00					
17-Jun-2008	08:00:00				0.04	
17-Jun-2008	20:00:00					
18-Jun-2008	08:00:00				0	
18-Jun-2008	20:00:00					
19-Jun-2008	08:00:00				0	
19-Jun-2008	20:00:00					
20-Jun-2008	08:00:00				0.13	

					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
20-Jun-2008	20:00:00					
21-Jun-2008	08:00:00				0	
21-Jun-2008	20:00:00					
22-Jun-2008	08:00:00				0.04	
22-Jun-2008	20:00:00					
23-Jun-2008	08:00:00				0.04	
23-Jun-2008	20:00:00					
24-Jun-2008	08:00:00				0	
24-Jun-2008	20:00:00					
25-Jun-2008	08:00:00				0	
25-Jun-2008	20:00:00	0	1.75	0.35		
26-Jun-2008	08:00:00				0	
26-Jun-2008	20:00:00					
27-Jun-2008	08:00:00				0	
27-Jun-2008	20:00:00					
28-Jun-2008	08:00:00				0.19	
28-Jun-2008	20:00:00					
29-Jun-2008	08:00:00				0	
29-Jun-2008	20:00:00					
30-Jun-2008	08:00:00				1.53	
30-Jun-2008	20:00:00					2.12
1-Jul-2008	08:00:00				0	
1-Jul-2008	20:00:00					
2-Jul-2008	08:00:00				0	
2-Jul-2008	20:00:00					
3-Jul-2008	08:00:00				0	
3-Jul-2008	20:00:00					
4-Jul-2008	08:00:00				0	
4-Jul-2008	20:00:00					
5-Jul-2008	08:00:00				0.23	
5-Jul-2008	20:00:00					
6-Jul-2008	08:00:00				0.34	
6-Jul-2008	20:00:00					
7-Jul-2008	08:00:00				0.33	
7-Jul-2008	20:00:00					
8-Jul-2008	08:00:00				0	
8-Jul-2008	20:00:00					
9-Jul-2008	08:00:00				1.08	
9-Jul-2008	20:00:00					
10-Jul-2008	08:00:00				0.22	
10-Jul-2008	20:00:00					
11-Jul-2008	08:00:00				0.02	
11-Jul-2008	20:00:00					
12-Jul-2008	08:00:00				0	
12-Jul-2008	20:00:00					
13-Jul-2008	08:00:00				0	
13-Jul-2008	20:00:00					
14-Jul-2008	08:00:00				0	
14-Jul-2008	20:00:00					

					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
15-Jul-2008	08:00:00				0.33	
15-Jul-2008	20:00:00					
16-Jul-2008	08:00:00				0	
16-Jul-2008	20:00:00					
17-Jul-2008	08:00:00				0	
17-Jul-2008	20:00:00					
18-Jul-2008	08:00:00				0	
18-Jul-2008	20:00:00					
19-Jul-2008	08:00:00				0.19	
19-Jul-2008	20:00:00					
20-Jul-2008	08:00:00				0	
20-Jul-2008	20:00:00					
21-Jul-2008	08:00:00				0	
21-Jul-2008	20:00:00					
22-Jul-2008	08:00:00				0	
22-Jul-2008	20:00:00					
23-Jul-2008	08:00:00				0	
23-Jul-2008	20:00:00					
24-Jul-2008	08:00:00				1.18	
24-Jul-2008	20:00:00					
25-Jul-2008	08:00:00				0	
25-Jul-2008	20:00:00					
26-Jul-2008	08:00:00				0	
26-Jul-2008	20:00:00					
27-Jul-2008	08:00:00				0	
27-Jul-2008	20:00:00					
28-Jul-2008	08:00:00				0.25	
28-Jul-2008	20:00:00					
29-Jul-2008	08:00:00				0	
29-Jul-2008	20:00:00					
30-Jul-2008	08:00:00				0	
30-Jul-2008	20:00:00					
31-Jul-2008	08:00:00				0.74	
31-Jul-2008	20:00:00	0	0.25	0		4.91
1-Aug-2008	08:00:00				0.68	
1-Aug-2008	20:00:00					
2-Aug-2008	08:00:00				0	
2-Aug-2008	20:00:00					
3-Aug-2008	08:00:00				0	
3-Aug-2008	20:00:00					
4-Aug-2008	08:00:00				0	
4-Aug-2008	20:00:00					
5-Aug-2008	08:00:00				0	
5-Aug-2008	20:00:00					
6-Aug-2008	08:00:00				0.11	
6-Aug-2008	20:00:00					
7-Aug-2008	08:00:00				0	
7-Aug-2008	20:00:00					
8-Aug-2008	08:00:00				0.01	

					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
8-Aug-2008	20:00:00					
9-Aug-2008	08:00:00				0	
9-Aug-2008	20:00:00					
10-Aug-2008	08:00:00				0	
10-Aug-2008	20:00:00					
11-Aug-2008	08:00:00				0.82	
11-Aug-2008	20:00:00					
12-Aug-2008	08:00:00				0	
12-Aug-2008	20:00:00					
13-Aug-2008	08:00:00				0	
13-Aug-2008	20:00:00					
14-Aug-2008	08:00:00				0.08	
14-Aug-2008	20:00:00					
15-Aug-2008	08:00:00				0	
15-Aug-2008	20:00:00					
16-Aug-2008	08:00:00				0.07	
16-Aug-2008	20:00:00					
17-Aug-2008	08:00:00				0	
17-Aug-2008	20:00:00					
18-Aug-2008	08:00:00				0	
18-Aug-2008	20:00:00					
19-Aug-2008	08:00:00				0	
19-Aug-2008	20:00:00					
20-Aug-2008	08:00:00				0	
20-Aug-2008	20:00:00					
21-Aug-2008	08:00:00				0.38	
21-Aug-2008	20:00:00					
22-Aug-2008	08:00:00				0	
22-Aug-2008	20:00:00					
23-Aug-2008	08:00:00				0	
23-Aug-2008	20:00:00					
24-Aug-2008	08:00:00				0	
24-Aug-2008	20:00:00					
25-Aug-2008	08:00:00				0	
25-Aug-2008	20:00:00					
26-Aug-2008	08:00:00				0	
26-Aug-2008	20:00:00					
27-Aug-2008	08:00:00				0.11	
27-Aug-2008	20:00:00	0	0.3	0.88		
28-Aug-2008	08:00:00				1.55	
28-Aug-2008	20:00:00					
29-Aug-2008	08:00:00				0.17	
29-Aug-2008	20:00:00					
30-Aug-2008	08:00:00				0	
30-Aug-2008	20:00:00					
31-Aug-2008	08:00:00				0.33	
31-Aug-2008	20:00:00					4.31
1-Sep-2008	08:00:00				0	
1-Sep-2008	20:00:00					

					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
2-Sep-2008	08:00:00				0	
2-Sep-2008	20:00:00					
3-Sep-2008	08:00:00				0	
3-Sep-2008	20:00:00					
4-Sep-2008	08:00:00				0	
4-Sep-2008	20:00:00					
5-Sep-2008	08:00:00				0	
5-Sep-2008	20:00:00					
6-Sep-2008	08:00:00				1.02	
6-Sep-2008	20:00:00					
7-Sep-2008	08:00:00				0.39	
7-Sep-2008	20:00:00					
8-Sep-2008	08:00:00				0	
8-Sep-2008	20:00:00					
9-Sep-2008	08:00:00				0	
9-Sep-2008	20:00:00					
10-Sep-2008	08:00:00				0	
10-Sep-2008	20:00:00					
11-Sep-2008	08:00:00				0.13	
11-Sep-2008	20:00:00					
12-Sep-2008	08:00:00				0	
12-Sep-2008	20:00:00					
13-Sep-2008	08:00:00				0	
13-Sep-2008	20:00:00					
14-Sep-2008	08:00:00				0	
14-Sep-2008	20:00:00					
15-Sep-2008	08:00:00				0	
15-Sep-2008	20:00:00					
16-Sep-2008	08:00:00				0	
16-Sep-2008	20:00:00					
17-Sep-2008	08:00:00				0.29	
17-Sep-2008	20:00:00					
18-Sep-2008	08:00:00				0	
18-Sep-2008	20:00:00					
19-Sep-2008	08:00:00				0	
19-Sep-2008	20:00:00					
20-Sep-2008	08:00:00				0	
20-Sep-2008	20:00:00					
21-Sep-2008	08:00:00				0	
21-Sep-2008	20:00:00					
22-Sep-2008	08:00:00				0	
22-Sep-2008	20:00:00					
23-Sep-2008	08:00:00				0	
23-Sep-2008	20:00:00					
24-Sep-2008	08:00:00				0	
24-Sep-2008	20:00:00					
25-Sep-2008	08:00:00				0	
25-Sep-2008	20:00:00					
26-Sep-2008	08:00:00				0.28	

					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
26-Sep-2008	20:00:00					
27-Sep-2008	08:00:00				0.92	
27-Sep-2008	20:00:00					
28-Sep-2008	08:00:00				0.21	
28-Sep-2008	20:00:00					
29-Sep-2008	08:00:00	0	0.3	4.83	0	
29-Sep-2008	20:00:00					
30-Sep-2008	08:00:00				0	
30-Sep-2008	20:00:00					3.24
1-Oct-2008	08:00:00				0.14	
1-Oct-2008	20:00:00					
2-Oct-2008	08:00:00				0	
2-Oct-2008	20:00:00					
3-Oct-2008	08:00:00				0	
3-Oct-2008	20:00:00					
4-Oct-2008	08:00:00				0	
4-Oct-2008	20:00:00					
5-Oct-2008	08:00:00				0	
5-Oct-2008	20:00:00					
6-Oct-2008	08:00:00				0	
6-Oct-2008	20:00:00					
7-Oct-2008	08:00:00				0	
7-Oct-2008	20:00:00					
8-Oct-2008	08:00:00				0	
8-Oct-2008	20:00:00					
9-Oct-2008	08:00:00				0	
9-Oct-2008	20:00:00					
10-Oct-2008	08:00:00				0.01	
10-Oct-2008	20:00:00					
11-Oct-2008	08:00:00				0.16	
11-Oct-2008	20:00:00					
12-Oct-2008	08:00:00				0	
12-Oct-2008	20:00:00					
13-Oct-2008	08:00:00				0	
13-Oct-2008	20:00:00					
14-Oct-2008	08:00:00				0	
14-Oct-2008	20:00:00					
15-Oct-2008	08:00:00				0	
15-Oct-2008	20:00:00					
16-Oct-2008	08:00:00				0	
16-Oct-2008	20:00:00					
17-Oct-2008	08:00:00				0	
17-Oct-2008	20:00:00					
18-Oct-2008	08:00:00				0.69	
18-Oct-2008	20:00:00					
19-Oct-2008	08:00:00				0	
19-Oct-2008	20:00:00					
20-Oct-2008	08:00:00				0	
20-Oct-2008	20:00:00					



					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
21-Oct-2008	08:00:00				0	
21-Oct-2008	20:00:00					
22-Oct-2008	08:00:00				0	
22-Oct-2008	20:00:00					
23-Oct-2008	08:00:00				0	
23-Oct-2008	20:00:00					
24-Oct-2008	08:00:00				0	
24-Oct-2008	20:00:00					
25-Oct-2008	08:00:00				0.08	
25-Oct-2008	20:00:00					
26-Oct-2008	08:00:00				0	
26-Oct-2008	20:00:00					
27-Oct-2008	08:00:00				0	
27-Oct-2008	20:00:00					
28-Oct-2008	08:00:00				0.16	
28-Oct-2008	20:00:00					
29-Oct-2008	08:00:00				0	
29-Oct-2008	20:00:00					
30-Oct-2008	08:00:00				0	
30-Oct-2008	20:00:00					
31-Oct-2008	08:00:00				0	
31-Oct-2008	20:00:00					1.24
1-Nov-2008	08:00:00				0	
1-Nov-2008	20:00:00					
2-Nov-2008	08:00:00					
2-Nov-2008	20:00:00					
3-Nov-2008	08:00:00				0.41	
3-Nov-2008	20:00:00					
4-Nov-2008	08:00:00				0.09	
4-Nov-2008	20:00:00					
5-Nov-2008	08:00:00				0	
5-Nov-2008	20:00:00					
6-Nov-2008	08:00:00				0	
6-Nov-2008	20:00:00					
7-Nov-2008	08:00:00				0	
7-Nov-2008	20:00:00					
8-Nov-2008	08:00:00				0.33	
8-Nov-2008	20:00:00					
9-Nov-2008	08:00:00				0	
9-Nov-2008	20:00:00					
10-Nov-2008	08:00:00				0	
10-Nov-2008	20:00:00					
11-Nov-2008	08:00:00				0	
11-Nov-2008	20:00:00					
12-Nov-2008	08:00:00				0	
12-Nov-2008	20:00:00					
13-Nov-2008	08:00:00	0	0	9.25	0.63	
13-Nov-2008	20:00:00					
14-Nov-2008	08:00:00					1.38

					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
14-Nov-2008	20:00:00					
15-Nov-2008	08:00:00				0.32	
15-Nov-2008	20:00:00					
16-Nov-2008	08:00:00				0	
16-Nov-2008	20:00:00					
17-Nov-2008	08:00:00				0	
17-Nov-2008	20:00:00					
18-Nov-2008	08:00:00				0	
18-Nov-2008	20:00:00					
19-Nov-2008	08:00:00					
19-Nov-2008	20:00:00					
20-Nov-2008	08:00:00					
20-Nov-2008	20:00:00					
21-Nov-2008	08:00:00					
21-Nov-2008	20:00:00					
22-Nov-2008	08:00:00					
22-Nov-2008	20:00:00					
23-Nov-2008	08:00:00					
23-Nov-2008	20:00:00					
24-Nov-2008	08:00:00					
24-Nov-2008	20:00:00					
25-Nov-2008	08:00:00					
25-Nov-2008	20:00:00					
26-Nov-2008	08:00:00					
26-Nov-2008	20:00:00					
27-Nov-2008	08:00:00					
27-Nov-2008	20:00:00					
28-Nov-2008	08:00:00					
28-Nov-2008	20:00:00					
29-Nov-2008	08:00:00					
29-Nov-2008	20:00:00					
30-Nov-2008	08:00:00					
30-Nov-2008	20:00:00					3.16
1-Dec-2008	08:00:00					
1-Dec-2008	20:00:00					
2-Dec-2008	08:00:00					
2-Dec-2008	20:00:00					
3-Dec-2008	08:00:00					
3-Dec-2008	20:00:00					
4-Dec-2008	08:00:00					
4-Dec-2008	20:00:00					
5-Dec-2008	08:00:00					
5-Dec-2008	20:00:00					
6-Dec-2008	08:00:00					
6-Dec-2008	20:00:00					
7-Dec-2008	08:00:00					
7-Dec-2008	20:00:00					
8-Dec-2008	08:00:00					
8-Dec-2008	20:00:00					

# **APPENDIX D**

## **2008 Site Photos**



**SPA 1. Log toe that washed out away from right bank at station 0+75.**



**SPA 2. Erosion behind log toe on left bank at station 4+90.**



**SPA 3. Scouring around log toe at station 19+05.**



**SPA 4. Right bank erosion behind log toe at station 22+20.**



**SPA 5. Right bank erosion behind log toe at station 35+75.**



**Vegetation Plot 1**



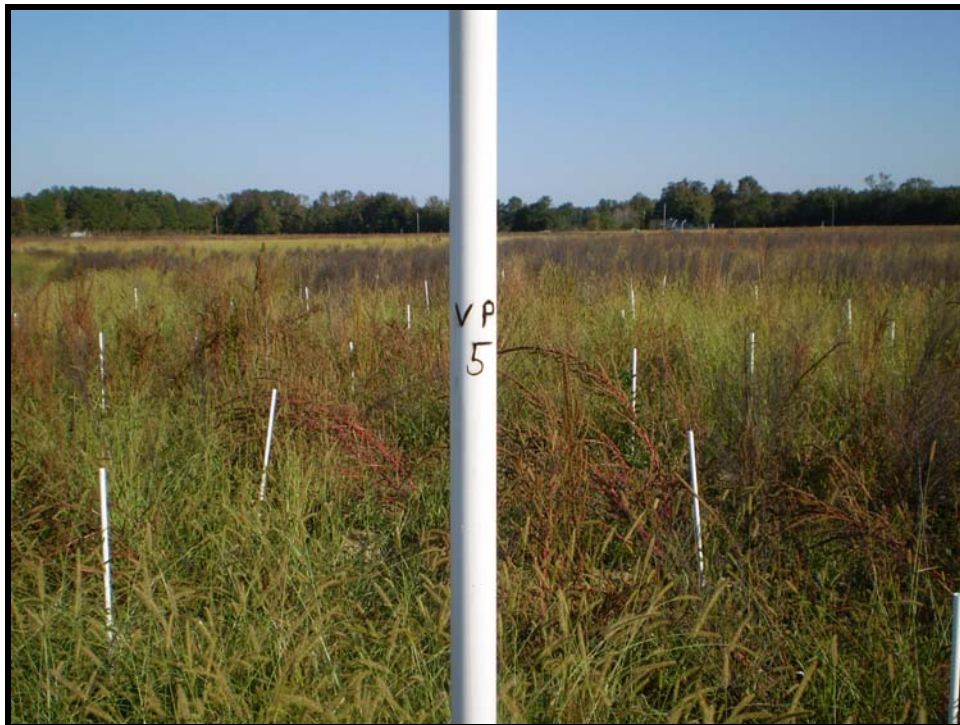
**Vegetation Plot 2**



**Vegetation Plot 3**



**Vegetation Plot 4**



**Vegetation Plot 5**





**Vegetation Plot 6**



**Vegetation Plot 7**



**Vegetation Plot 8**



**Vegetation Plot 9**



**Vegetation Plot 10**



**Vegetation Plot 11**



**Vegetation Plot 12**



**Vegetation Plot 13**



**Vegetation Plot 14**



**Vegetation Plot 15**



**Vegetation Plot 16**



**Vegetation Plot 17**



**Vegetation Plot 18**



**Vegetation Plot 19**



**Vegetation Plot 20**



**Vegetation Plot 21**





**Vegetation Plot 22**



**Vegetation Plot 23**



**Vegetation Plot 24**