

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

**Year 1 Monitoring Report**



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## **1.0 SUMMARY**

This Annual Report details the monitoring activities during the 2007 growing season on the Conoconnara Mitigation Site. Construction of the site, including planting of trees, was completed in March 2007. The 2007 data represents results from the first year of hydrology and vegetation 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. On-site rainfall measurements were well below normal limits for the growing season due to the severe drought that NC experienced thus far in 2007 (Section 3.3.2).

In 2007, no hydrology monitoring gauges met the hydrology success criteria as defined in the Restoration Plan for the site. The gauges exhibited hydroperiods up to 6 percent of the growing season. However, the gauges correlate with data collected from gauges located on thereference site that also experienced conditions that were drier than normal during the 2007 growing season. Due to nature of the restored wetlands and drought conditions the 2007 hydrology data are inconclusive.

This Annual Monitoring Report documents vegetation survival on 24 vegetation monitoring plots. The vegetation monitoring indicated survival rates between 290 and 860 stems per acre. The final vegetative success criteria will be the survival of 260 5-year old planted trees per acre at the end of year five of the monitoring period.

Three bankfull events were recorded at the site. The restored stream channel has remained stable and is providing the intended habitat and hydrologic functions. All monitored cross sections and longitudinal profile for 2007 show very little adjustment in stream dimension.

## **2.0 INTRODUCTION**

### **2.1 PROJECT**

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 2007 monitoring season represents Year 1 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 2007 (Year 1) at the Conoconnara Mitigation Site.

## **2.3 PROJECT HISTORY**

**Table 1. Project History and Schedule**

<b>Project History</b>	
November 2006	Approved Restoration Plan
March 2007	Construction Completed
March 2007	Post-restoration Monitoring Begins
November 2007	1st Annual Monitoring Report
November 2008 (Scheduled)	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



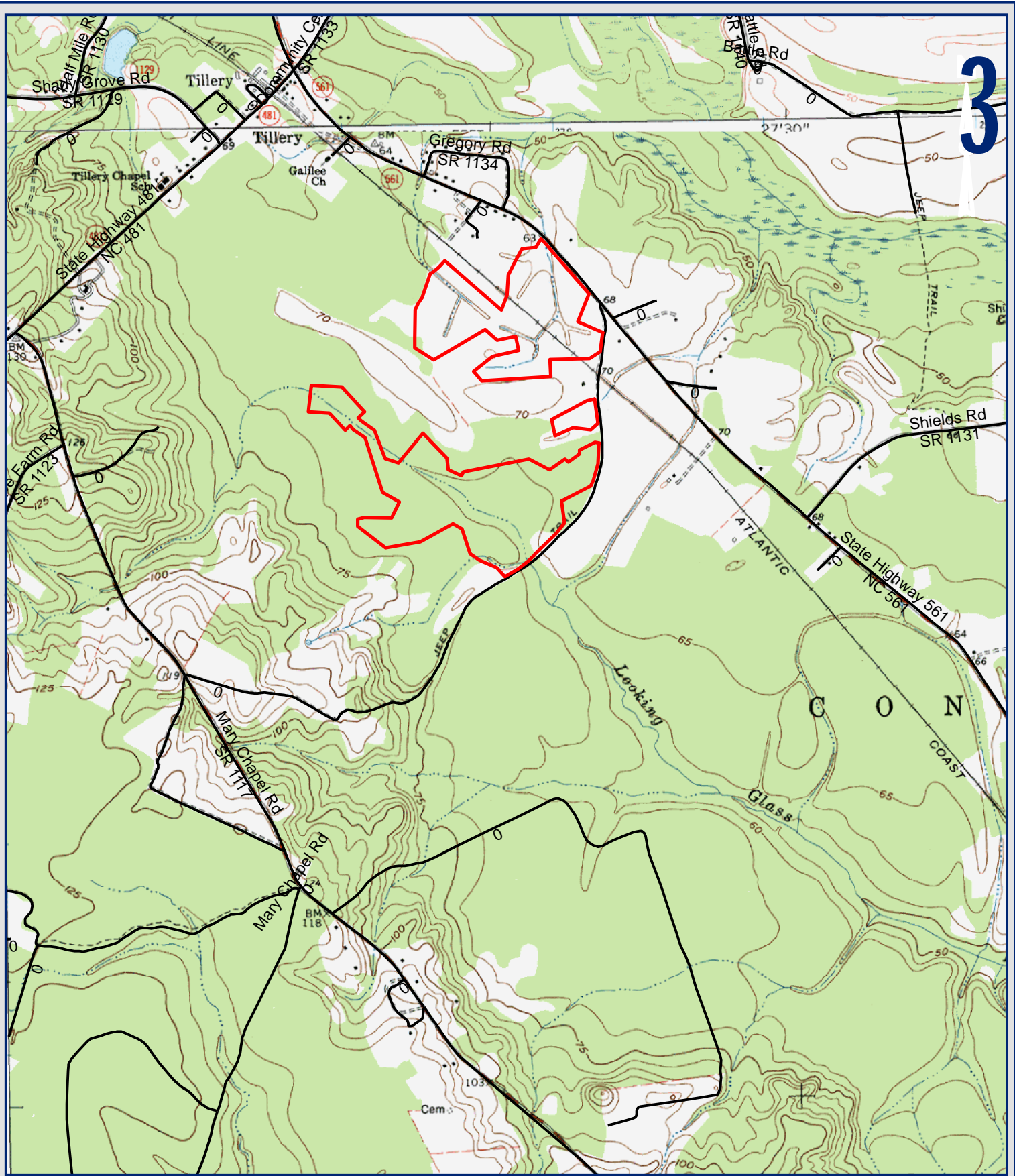


Figure 2.  
 USGS Quad Map  
 Conoconnara, Halifax County, NC  
 0 5001,000 2,000 3,000 4,000  
 Feet

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

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



### **3.0 HYDROLOGY**

#### **3.1 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 2007 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.

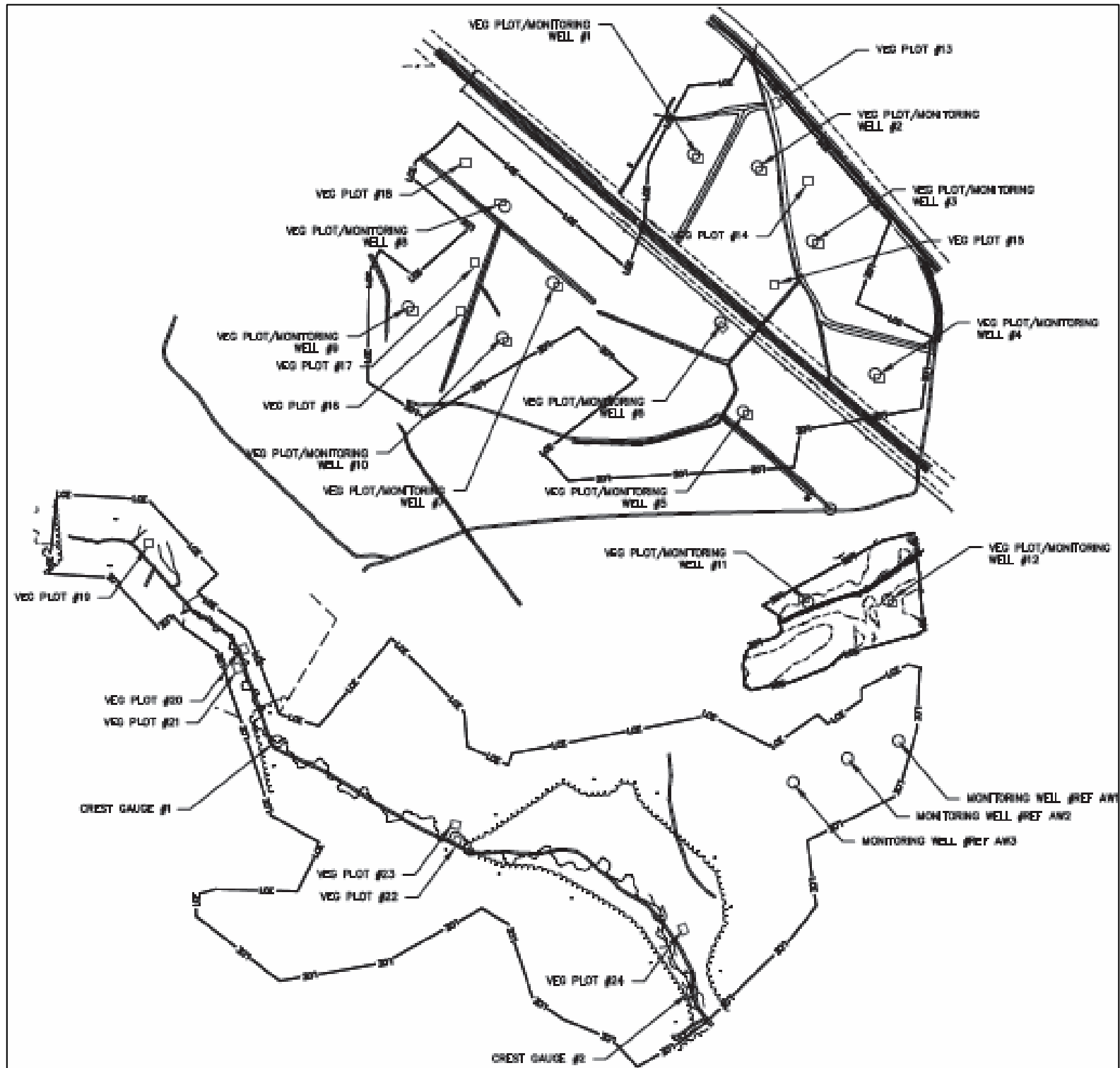
##### *Data Interpretation*

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. The results of these calculations are presented in Table 2 and a hydrograph of the water

Figure 3. Conoconnara Monitoring Locations



depth for each monitoring gauge with weather station precipitation data are provided in Figure 4a-4d.

Precipitation is shown across the bottom of the graph to demonstrate the reaction at each monitoring location of the groundwater level specific to rainfall events. Raw hydrograph data collected from the monitoring gauges is provided in Appendix C.

**Table 2 Hydrologic Monitoring Results**

<b>2007 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	1	0	2	1	2
AW2	12	6	59	28	9
AW3	5	2	20	9	8
AW4	2	1	5	2	4
AW5	8	4	17	8	5
AW6	6	3	13	6	5
AW7	4	2	8	4	3
AW8	8	4	35	16	7
AW9	10	5	35	16	5
AW10	4	2	13	6	5
AW11	0	0	0	0	0
AW12	8	4	11	5	2
REF AW1	9	4	10	5	2
REF AW2	26	12	26	12	1
REF AW3	1	0	1	0	1

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. The 2007 hydrology monitoring results indicate insufficient recharge occurred post construction. The clay subsoil prevented rapid infiltration of the few rainfall events during 2007. 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. Because of the severe drought during the summer of 2007 the monitoring data shows the site has remained dry for extended periods. None of the hydrology gauges exhibited successful wetland hydroperiods.

### 3.3.1 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 accessed to determine if there is a positive correlation between the performance of the restoration site and the natural hydrology of the reference site.

The reference wetland groundwater gauge exhibited wetland hydroperiods ranging from 1 to 12 percent of the growing season. The reference wetland hydroperiods occurred at the start of the 2007 growing season and when the water table dropped below 12 inches the gauges never



Figure 4a. 2007 Conoconnara Groundwater Gauges

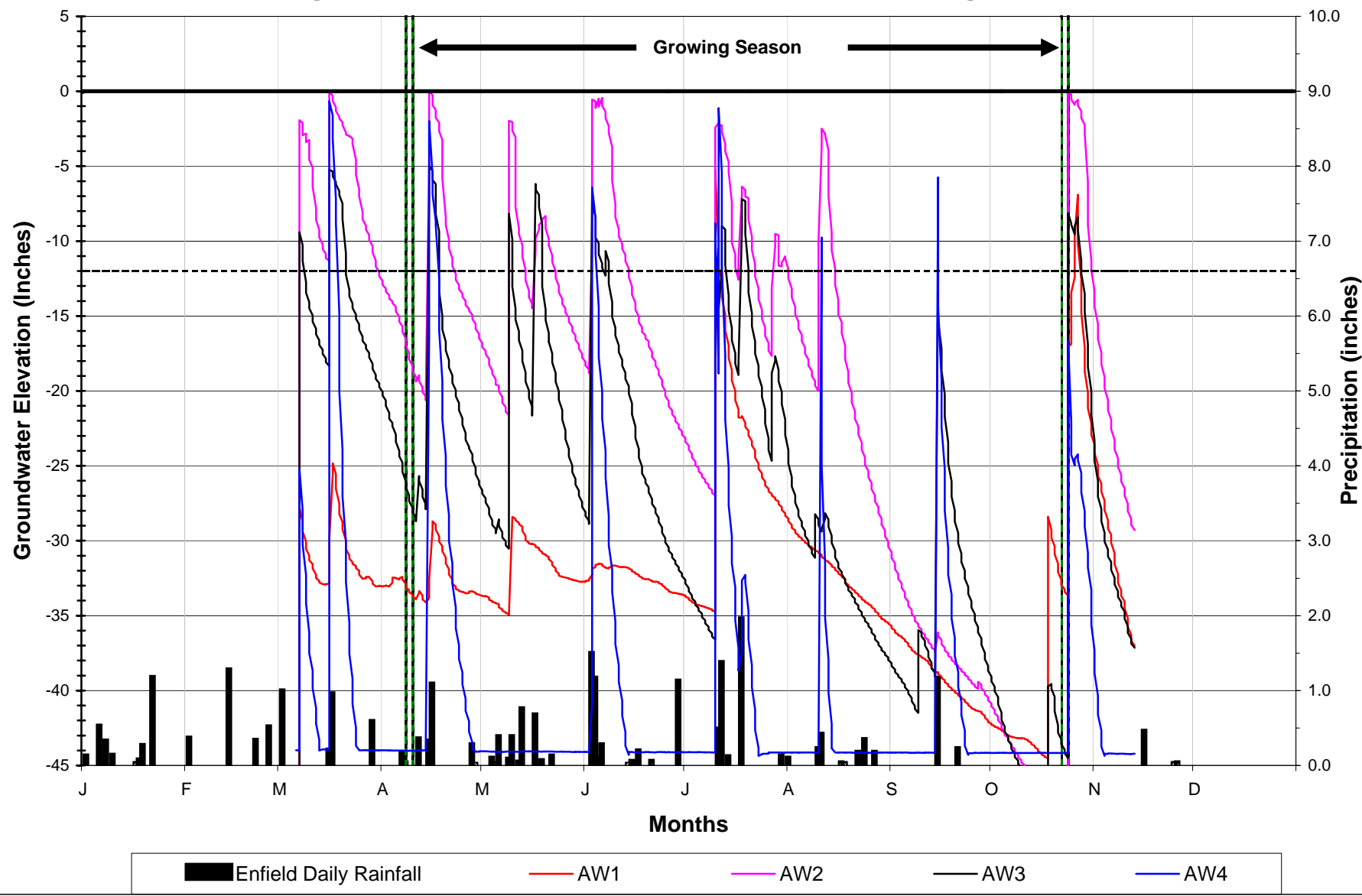


Figure 4b. 2007 Conoconnara Groundwater Gauges

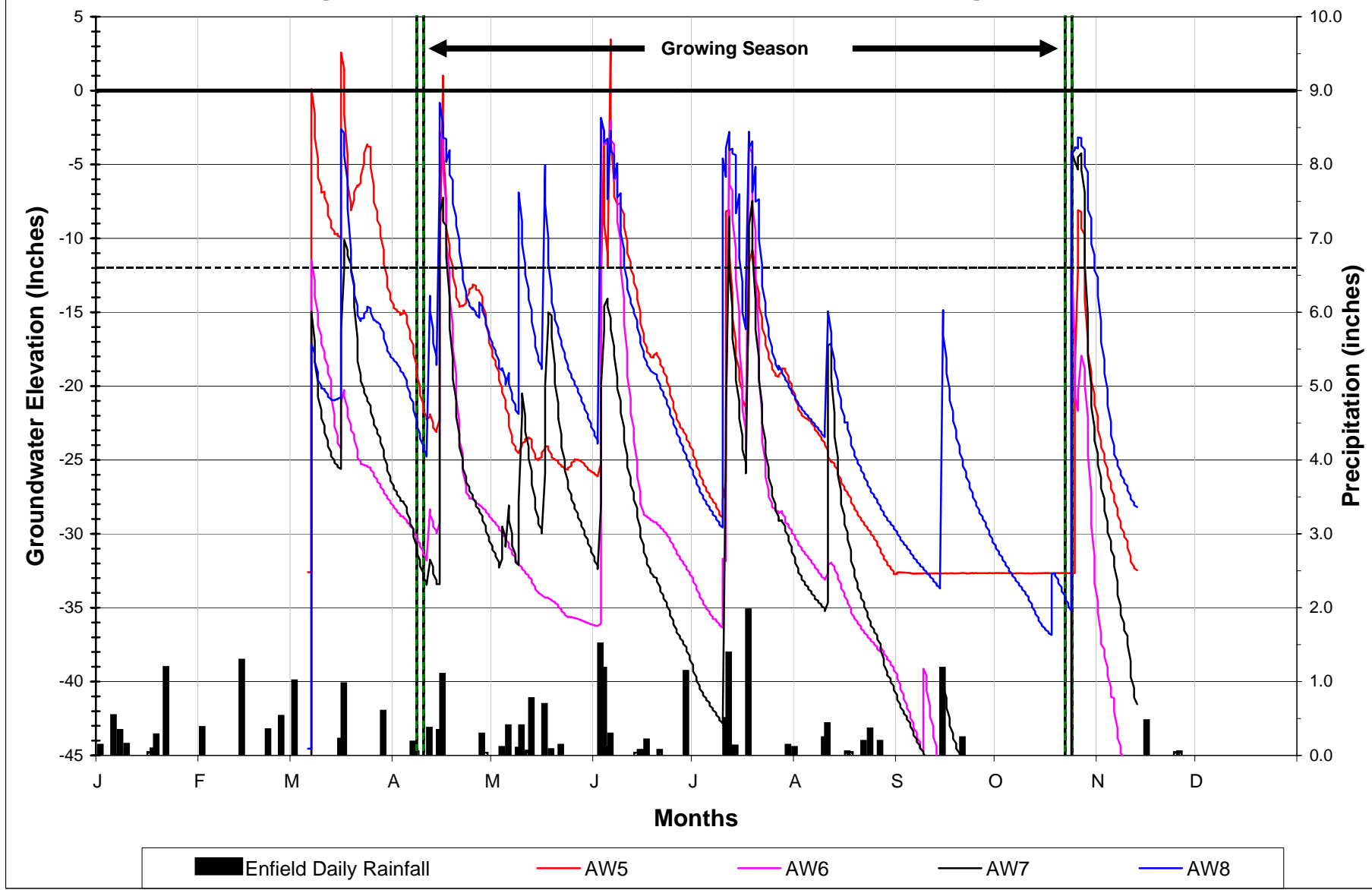




Figure 4c. 2007 Conoconnara Groundwater Gauges

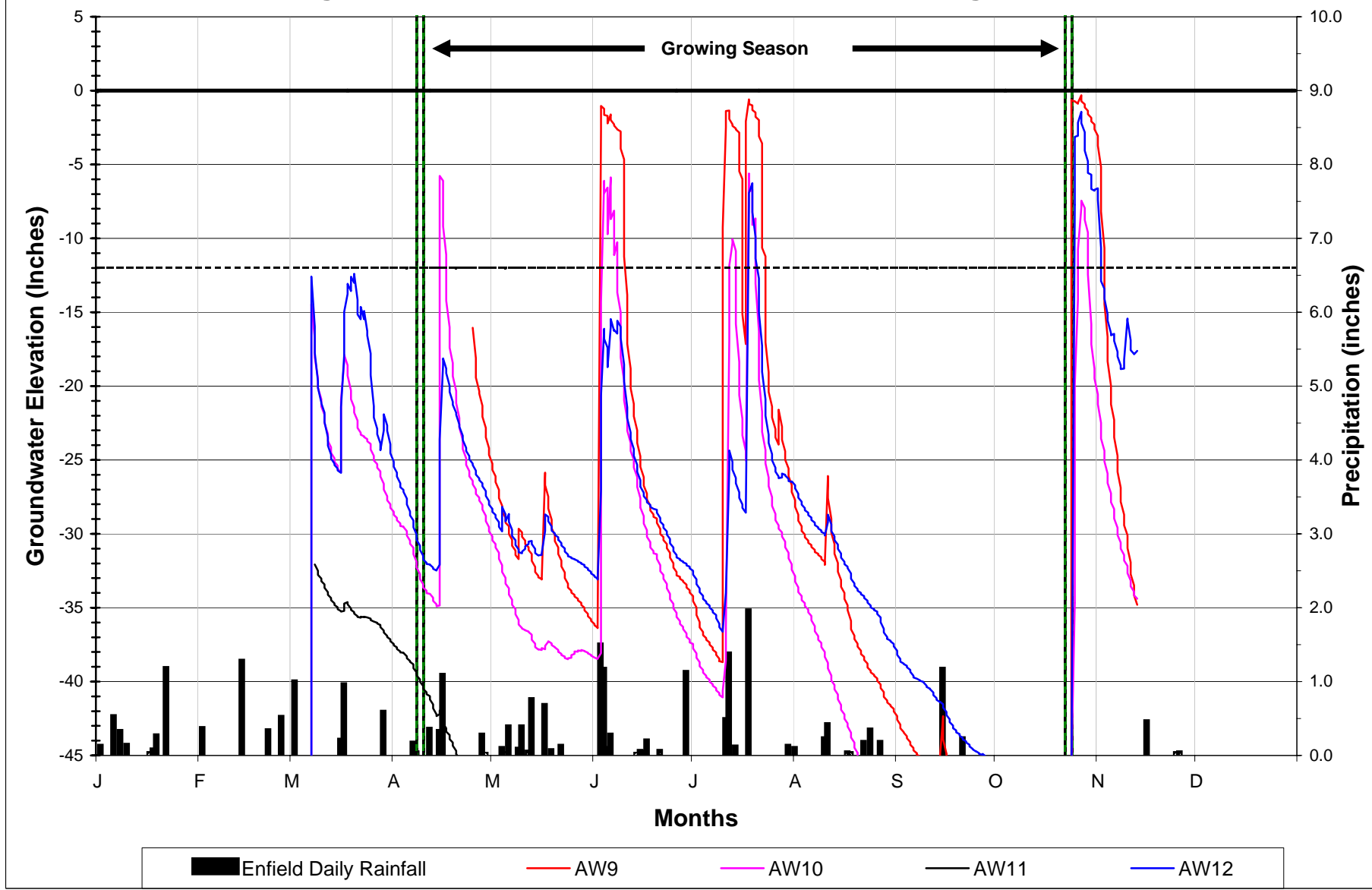
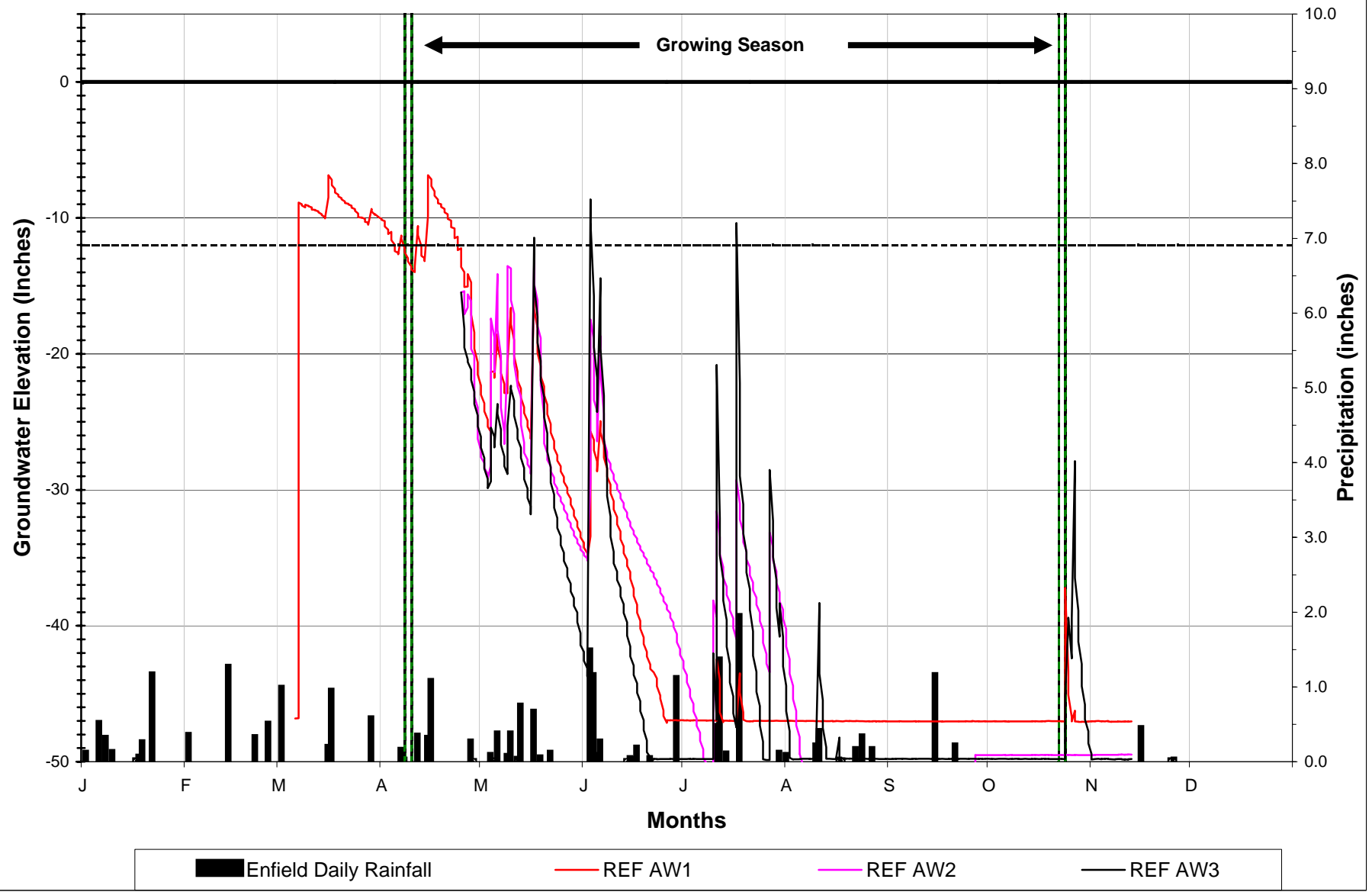


Figure 4d. 2007 Conoconnara Groundwater Gauges



rose to within 12 inches again, indicating the severity of the drought conditions. Appendix C contains the groundwater gauge data.

### 3.3.2 Climate Data

The entire state of North Carolina experienced increasingly severe drought conditions throughout 2007, with some areas experiencing the lowest average stream flows on record. The first signs of drought began in February in the western part of the state. By early spring, abnormally dry conditions had spread across the state, and the western edge of the state began to see “moderate” drought conditions. From late spring through the summer, conditions steadily worsened. By August, 98 percent of North Carolina’s land area was designated as being in either “severe”, “extreme”, or “exceptional” drought. Additionally, lowest-ever average stream flows were recorded at 13 monitoring stations in August, including nine in central North Carolina, two in the mountains, and two on the coastal plain. Nearly the entire state was categorized as experiencing “extreme” drought in September, with the southwest portion of the state categorized as experiencing “exceptional” drought. Figure 5 depicts the increasing severity of the drought throughout the year.

The Conoconnara restoration site experienced drought conditions consistent with statewide trends. Precipitation levels at the Enfield monitoring station, near the Conoconnara site, fluctuated within and slightly below the normal range from January to May (Figure 6 and Table 3). Rainfall levels were slightly above normal in June and within the normal range in July. The site received 1.45 inches of rain in August, which is 2.81 inches below average. In September, precipitation levels reached just 0.25 inches—4.33 inches below average. The accumulated rainfall deficit—the difference between the long-term average and the observed monthly precipitation levels, aggregated monthly—began at -1.62 inches in January and fell to -6.41 inches in May. The deficit began to recover in June, and then increased steadily through the summer, reaching -12.92 inches by the end of September. Persistent and worsening drought conditions severely impacted the wetland hydroperiods at the Conoconnara restoration site.

**Table 3. Comparison of Normal Rainfall to Observed Rainfall**

Month	Average	Normal Limits		Enfield Precipitation	On-Site Precipitation	Accumulated Rainfall Deficit
		30 Percent	70 Percent			
January	4.23	3.20	5.01	2.61	---	-1.62
February	3.47	2.37	4.29	2.47	---	-2.62
March	4.22	3.12	4.95	2.72	0.91	-4.12
April	3.16	2.14	3.94	2.22	0.00	-5.06
May	3.94	2.58	4.77	2.59	1.90	-6.41
June	3.62	2.48	4.25	4.47	0.50	-5.56
July	4.25	2.76	5.07	4.03	0.00	-5.78
August	4.26	2.60	5.62	1.45	0.23	-8.59
September	4.58	2.19	5.52	1.38	1.15	-11.79
October	3.33	2.01	4.35	0.00	0.40	-15.12
November	3.04	1.86	3.59	0.50	3.16	-17.66
December	3.26	2.29	4.06	---	---	---
<b>Total</b>	<b>31.15</b>	<b>21.25</b>	<b>37.90</b>	<b>22.56</b>	<b>3.54</b>	<b>---</b>

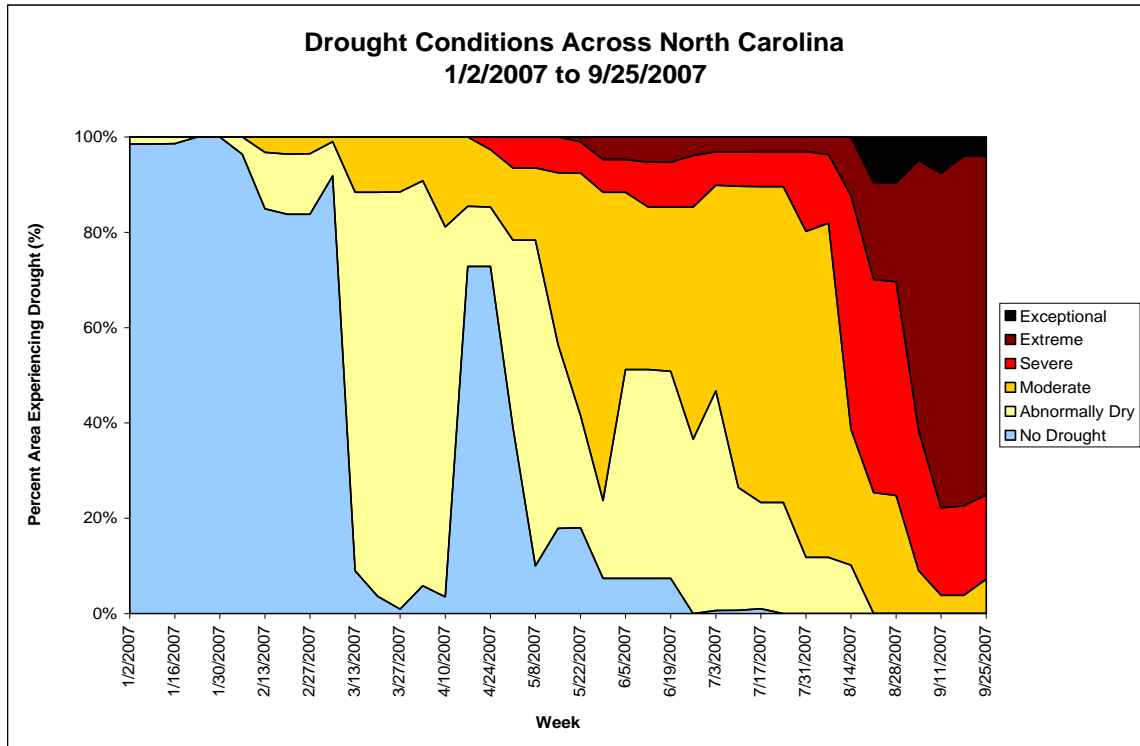


Figure 5 2007 Drought Conditions

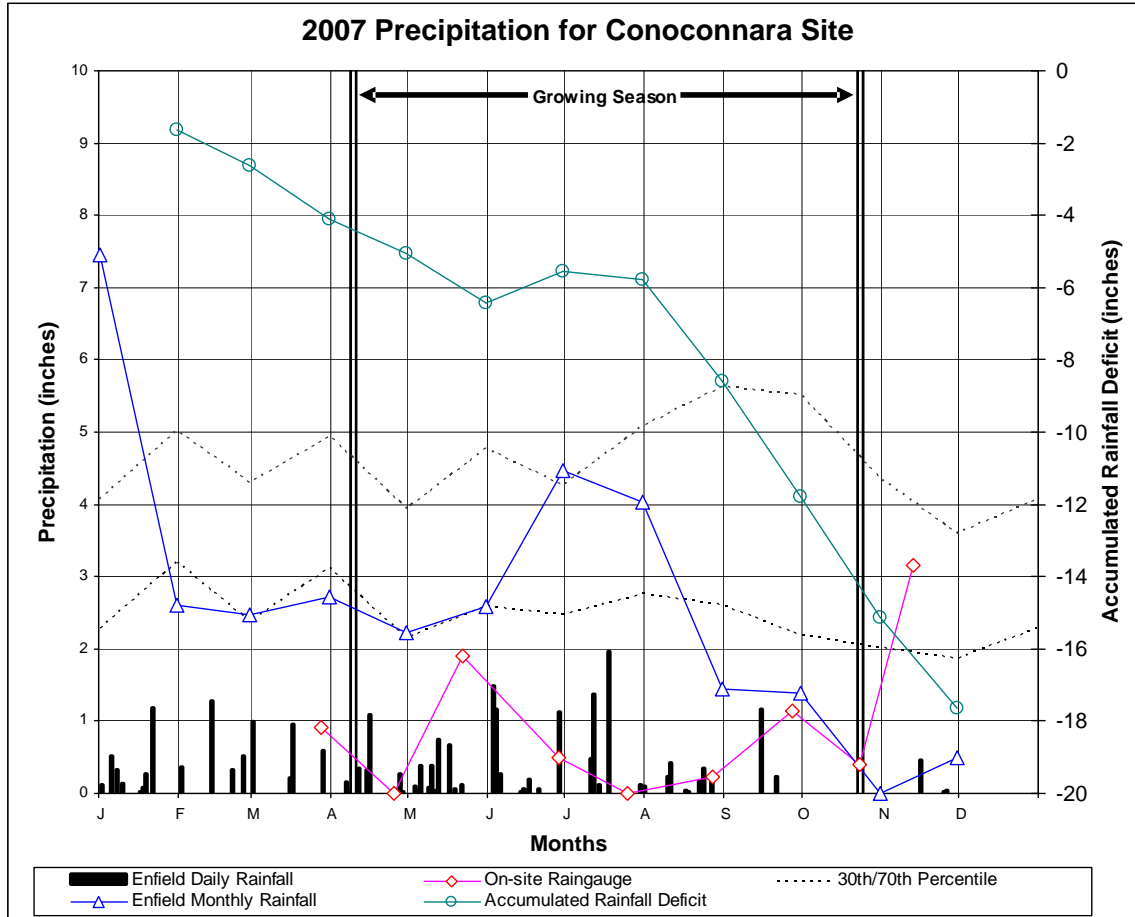


Figure 6 2007 Conoconnara Rainfall

### 3.4 HYDROLOGIC CONCLUSIONS

Data collected from the groundwater monitoring gauges on the Conoconnara Mitigation Site indicate that none of the hydrology monitoring stations recorded hydroperiods of at least 7 percent of the growing season. At the reference site, 2 out of 3 gauges also recorded less than 7 percent hydroperiods.

Rainfall data for the site documents that the 2007 growing season was well below average. The state climate office shows the Conoconnara site to be within a zone of extreme drought.

Based on the below average on-site rainfall, wetland performance is inconclusive. The groundwater data appeared to show increasing recharge throughout the growing season but insufficient rainfall to achieve success. It is anticipated that future monitoring years will prove successful.

All wetland ditch outlets are stable and well vegetated. One small erosion area was observed on a ditch plug immediately upstream of the ditch outlet along NC 561. This area will be monitored closely in the future to determine if any repairs are necessary.

## **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.

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**

The Table 4 presents stem counts for each of the monitoring stations by species, total density, and survival from baseline.

Volunteer species are also be monitored throughout the five year monitoring period. Table 5 lists the most commonly found volunteer species. Table 6 lists estimated total percent cover for each vegetation monitoring plot.

*Conoconnara Mitigation Site  
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**Table 4. Results of 2007 Vegetation Monitoring**

Plot No.	Size (acres)	Location	Yellow Poplar	Water Oak	Green Ash	Musclewood	Water Tupelo	American Elm	Willow Oak	Bald Cypress	River Birch	Swamp Chestnut Oak	Swamp blackgum	Pawpaw	Sycamore	Cherrybark Oak	Laurel Oak	Overcup Oak	Unknown	2007 Total Trees	2007 Trees per Acre	Baseline Total Trees	Baseline Trees per Acre	Percent Survival
1	0.1	Wet Rest.	6	4	3	4	4	9	4		5	1	2	1		2			5	50	500	58	580	86
2	0.1	Wet Rest.		5		2			8	4		5	7		2				1	34	340	54	540	63
3	0.1	Wet Rest.		2	4	1	3	1	6	1		4	4		1				2	29	290	45	450	64
4	0.1	Wet Rest.	7	1		6		1	4		2	3	6			5	2		1	38	380	55	550	69
5	0.1	Wet Rest.		7	4		2		1	12		3	6		1				2	38	380	55	550	69
6	0.1	Wet Rest.	9	3	4	8		8	4			1	2			5			1	45	450	54	540	83
7	0.1	Wet Rest.	16	1	4	2		5	6		2	7	5		1	4			1	54	540	61	610	89
8	0.1	Wet Rest.		2	8				5	11		5	8							39	390	56	560	70
9	0.1	Wet Rest.	10	2	4	10		4	9		8		15			4			5	71	710	79	790	90
10	0.1	Wet Rest.		5	5	1	1		7	8		4	5		2	1	1		2	42	420	65	650	65
11	0.1	Wet Rest.		6	7	3	4	1	6	8		8	2						2	47	470	60	600	78
12	0.1	Wet Rest.	6	7	2	3	2	1	15			1	8		1	2			4	52	520	59	590	88
13	0.1	Wet Rest.	3	6	6	3	1	1	5	2	1		7						5	40	400	54	540	74
14	0.1	Wet Rest.	8	9	3	1	2	7	4				2	1	1	2	3		4	47	470	55	550	85
15	0.1	Wet Rest.		3	7		6		1	10			4		1					32	320	54	540	59
16	0.1	Wet Rest.		5	4	3			4	3		2	7			1	2		1	32	320	56	560	57
17	0.1	Wet Rest.		2	7		1		6	9		4	9						1	39	390	53	530	74
18	0.1	Wet Rest.		1	20				3	3		4	2			1			2	36	360	62	620	58
19	0.1	Wet Enhanc.		6	6	1	5		7	3		5	12		3		3		3	54	540	65	650	83
20	0.05	Riparian		2	13											1	1			17	340	23	460	74
21	0.05	Riparian		2	16		3		8	1			1		1		1	1	2	36	720	41	820	88
22	0.05	Riparian		5	17		1		6		3		4		1		1	1	1	40	800	50	1000	80
23	0.05	Riparian		4	20				8	2	2		3		3				1	43	860	48	960	90
24	0.1	Riparian		7	24		2		6	6	5		1					6	1	60	600	61	610	98
<b>Average</b>																				<b>42</b>	<b>480</b>	<b>55</b>	<b>619</b>	<b>76</b>

**Table 5. Common Volunteer Species**

Scientific Name	Common Name	Wetland Indicator
<i>Arundinaria gigantea</i>	Giant Cane	FACW
<i>Acer rubrum</i>	Red Maple	FAC
<i>Smilax bona-nox</i>	Saw Greenbriar	FAC
<i>Eupatorium capillifolium</i>	Dogfennel	FACU
<i>Rubus argutus</i>	Blackberry	FACU
<i>Rhus Coppallina</i>	Winged Sumac	NI
<i>Carex sp.</i>	Unknown Sedge	FACW
<i>Parthenocissus quinquefolia</i>	Virginia Creeper	FAC
<i>Nyssa sylvatica</i>	Blackgum	FAC
<i>Ipomea sp.</i>	Morning Glory	FAC+
<i>Panicum sp.</i>	Switchgrass	FAC
<i>Salix nigra</i>	Black Willow	OBL
<i>Polygonum pennsylvanicum</i>	Smartweed	FACW
<i>Cephalanthus occidentalis</i>	Buttonbush	OBL
<i>Liquidambar styraciflua</i>	Sweetgum	FAC+
<i>Artemisia vulgaris</i>	Mugwort	NI
<i>Digitaria sp.</i>	Crabgrass	FAC
<i>Setaria sp.</i>	Foxtail	FAC

**Table 6. Estimated Percent Cover**

Plot No.	Location	Estimated Percent Cover
1	Wetland Restoration	15
2	Wetland Restoration	30
3	Wetland Restoration	15
4	Wetland Restoration	5
5	Wetland Restoration	10
6	Wetland Restoration	15
7	Wetland Restoration	25
8	Wetland Restoration	50
9	Wetland Restoration	20
10	Wetland Restoration	40
11	Wetland Restoration	15
12	Wetland Restoration	10
13	Wetland Restoration	20
14	Wetland Restoration	10
15	Wetland Restoration	15
16	Wetland Restoration	35
17	Wetland Restoration	30
18	Wetland Restoration	10
19	Wetland Enhancement	80
20	Riparian	10
21	Riparian	10
22	Riparian	20
23	Riparian	5
24	Riparian	50



#### **4.4 GENERAL VEGETATION OBSERVATIONS AND CONCLUSIONS**

The site was planted in non-riverine hardwoods and riparian hardwood species in March 2006. The 2007 growing season was exceptionally dry and many of the observed seedlings were stunted or did not survive. The average survival across the 24 vegetation plots was 76 percent and ranged from 57 percent to 98 percent. The average number of surviving trees per acre across the 24 vegetation plots was 480 with a range of 290 to 860. The existing vegetation monitoring plots provide a good representation of the entire site, thus it has been determined that remedial planting is not necessary at this time.

Herbaceous vegetation on the site is generally sparse due to exceptionally dry conditions and past agricultural land uses. Estimated percent cover ranged from 5 percent to 80 percent with an average of 23 percent. Due to the wide variation in percent cover among the plots, remedial action may be necessary to avoid issues with erosion. Hydrophytic herbaceous vegetation is common and includes giant cane, sedge, and smartweed. The presence of these herbaceous wetland plants helps to confirm the presence of wetland hydrology on the site.

There are weedy species occurring on the site, though few seem to be posing any wide spread problems for the woody or herbaceous hydrophytic vegetation. Red maple and sweetgum are present in low densities throughout the mitigation areas. These species are primarily the result of an existing seed source from adjacent mature trees. No remedial actions are recommended at this time.

### **5.0 STREAM MONITORING**

#### **5.1 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 setup 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, three, and 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:

*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.

*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 2007 (Year 1) were surveyed in August 2007.

*Longitudinal Profile:* A longitudinal profile will be completed in Years 1, 3, and 5. 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.

*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

### 5.3.1 Cross Sections

Year 1 cross section monitoring data for stream stability were collected during August 2007 and compared to baseline data collected in March 2007 (Table 7; Appendix B). All monitored cross sections were stable and showed little change in channel dimensions.

### 5.3.2 Longitudinal Profile

A longitudinal profile survey was conducted in Year 1. The profile survey indicated little change to channel dimensions (Table 7; Appendix B). Coastal plain swamp streams are dynamic in nature and some channel adjustment is expected.

### 5.3.3 Hydrology

Three bankfull events on the site were documented during site visits through the use of the onsite crest gauges. The largest stream flow recorded on the upstream crest gauge (CG1) was 0.55 feet above bankfull elevation in April 2007. The largest stream flow recorded on the downstream crest gauge (CG2) was 2.70 feet above bankfull elevation in May 2007.

**Table 7. Summary of Morphologic Monitoring Parameters**

<b>Parameter</b>	<b>As-Built Reach 1</b>	<b>As-Built Reach 2</b>	<b>As-Built Reach 3</b>	<b>Year 1 Reach 1</b>	<b>Year 1 Reach 2</b>	<b>Year 1 Reach 3</b>
Stream Type	E5	E5	DA	E5	E5	DA
Drainage Area (Ac)	142.00	373.00	562.00	142.00	373.00	562.00
Bankfull Xsec Area, Abkf (sq ft)	14.225	15.075	12.5	11.78	8.50	10.10
Avg. Bankfull Width, Wbkf (ft)	14.475	12.45	12	12.43	8.68	13.20
Bankfull W/D	15.65	10.9	11.55	14.43	10.45	17.25
Bankfull Mean Depth, Dbkf (ft)	0.925	1.25	1	0.88	0.85	0.75
Bankfull Max Depth, Dmax (ft)	2.025	3.1	2.15	1.68	1.53	1.90
Meander Length, Lm (ft)	53.3	136.30	160.8	52.50	110.30	161.00
Radius of Curvature, Rc (ft)	17.9	18.80	38.6	16.50	37.46	43.35
Belt Width, Wblt (ft)	110.4	63.4	45.7	113.0	77.75	36.75
Sinuosity, K	1.44	1.38	1.03	1.57	1.02	1.04
Valley Slope, Sval (ft/ft)	0.0017	0.0014	0.00048	0.00200	0.00052	0.00210
WS Slope	NA	NA	NA	NA	NA	NA

#### **5.4 STREAM CONCLUSIONS**

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. The lower portion of the restored stream appears to be impounded by the remnants of a rock check dam installed during construction. Localized areas of elevated profile (shallows) have been colonized by wetland plant species due to low stream flow. Two minor localized areas of erosion were present but do not present a problem to stream stability (STA 12+30 and STA 20+60). These areas are subject to concentrated overland flow entering the channel and may need additional stabilization in the future. 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.

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

- No hydrology monitoring gauges recorded consecutive hydroperiods for at least 7 percent of the growing season. One of the gauges exhibited a hydroperiod greater than 5 percent of the growing season. The remaining gauges exhibited conditions drier than expected, but, were within the range of conditions of the reference wetland. Due to extreme drought conditions and lack of wetland recharge the 2007 hydrology monitoring data are inconclusive.

*Conoconnara Mitigation Site  
Annual Monitoring Report for 2007 (Year 1)*

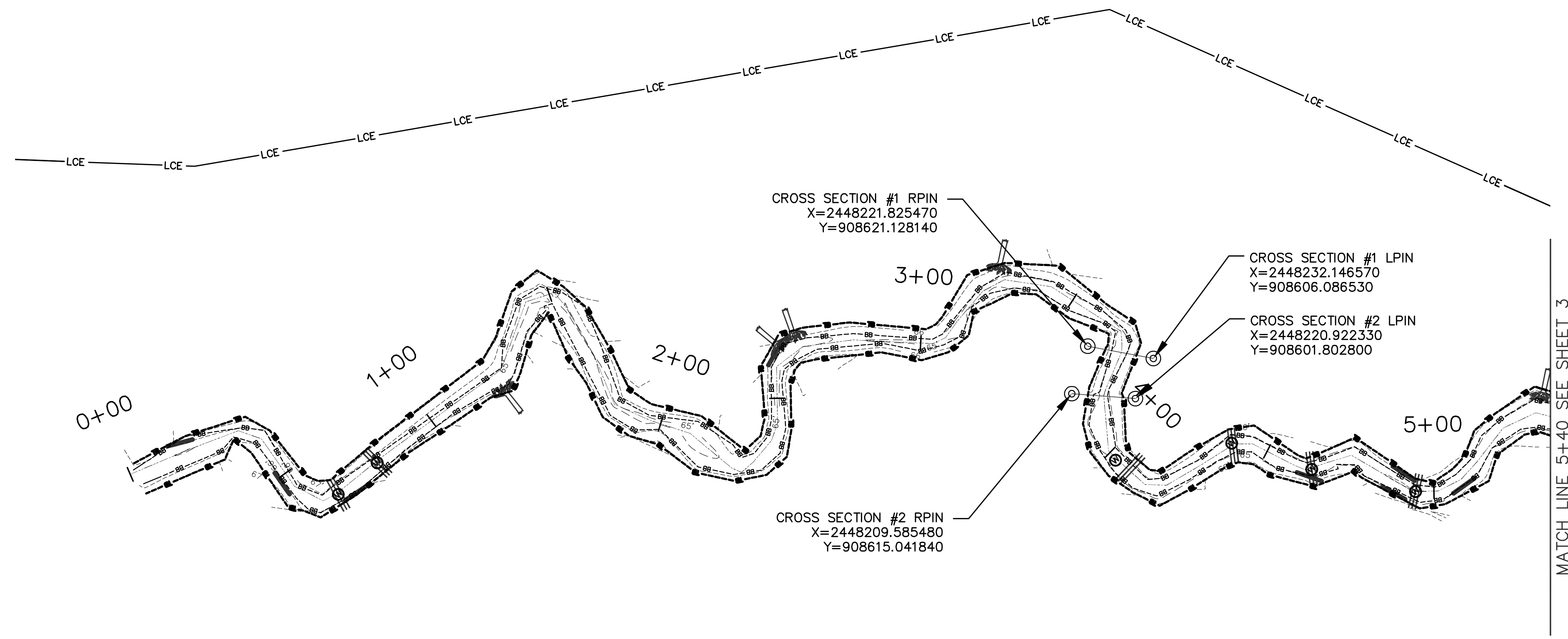
- The restored stream channel has remained stable and is providing the intended habitat and hydrologic functions. All monitoring cross sections and longitudinal profile for 2007 showed very little adjustment in stream dimension.
- Vegetation monitoring has determined the average number of stems per acre on site to be 480, which is a survival rate of 76 percent.
- Vegetative and stream monitoring will continue through 2010.

# **APPENDIX A**

## **As-Built Survey**

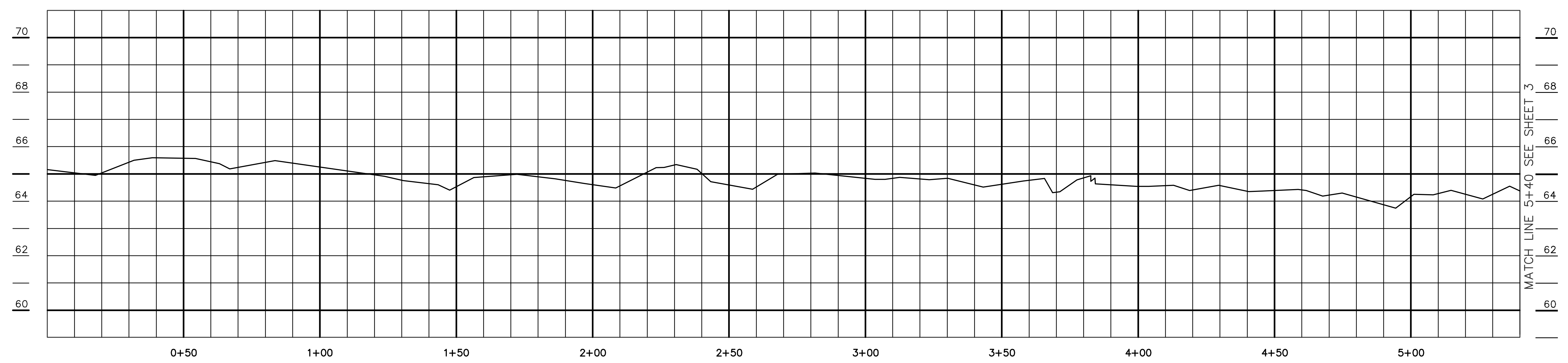
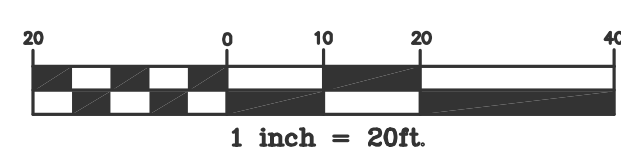


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**LEGEND**

BOTTOM OF BANK	---●---●---●---
TOP OF BANK	—■—■—■—■—
CONTOURS	- - - - -
CENTER OF CHANNEL	—+—+—+—+—
LIMITS OF CONSERVATION EASEMENT	—LCE—LCE—
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.

REV. NO.	DESCRIPTION	DATE

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APPROVED BY	PROJECT NUMBER
MSE	6002000RA
FILE NAME	PLOT DATE
as-built.dwg	04/13/07



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 South Carolina Florida

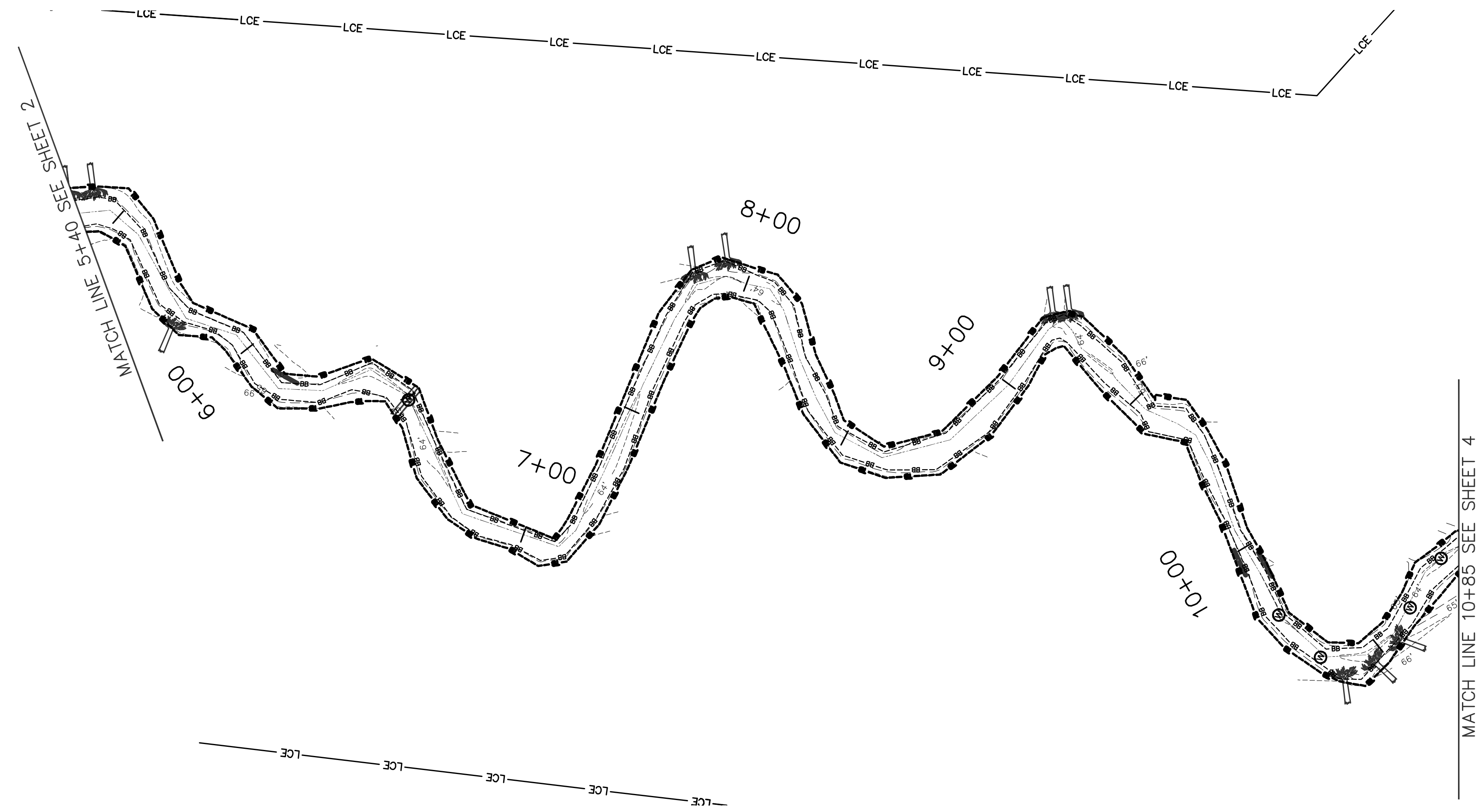
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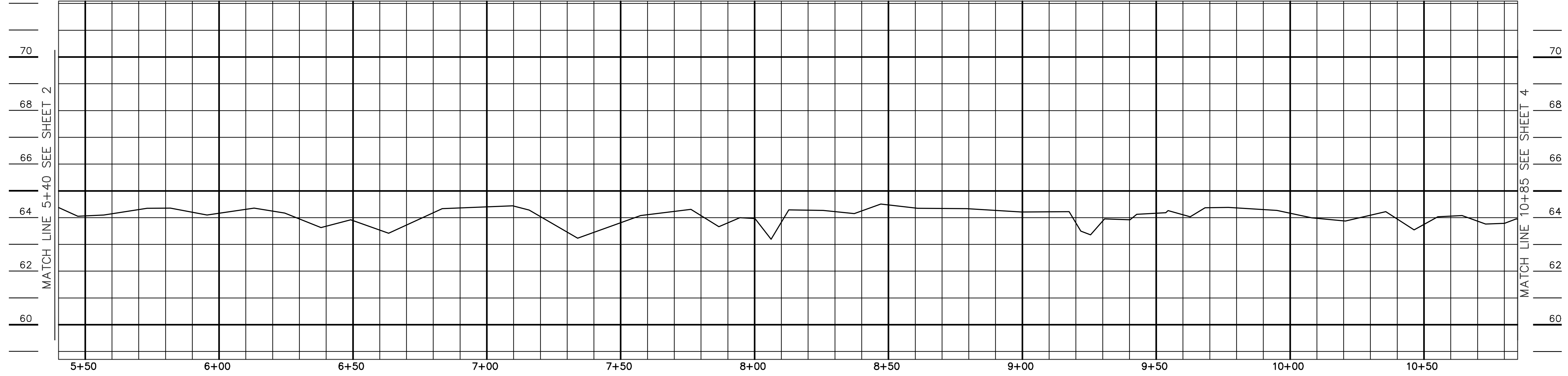
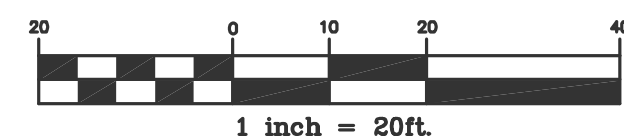
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TOP OF BANK	—●—●—●—●—
CONTOURS	- - - - -
CENTER OF CHANNEL	—+—+—+—+—
LIMITS OF CONSERVATION EASEMENT	—LCE—
LOG RAMP	▬
SMALL WOODY DEBRIS	(W)
CROSS SECTION	⊙
LOG GRADE CONTROL	▬▬▬▬
LOG TOE PROTECTION	▬▬▬▬
FORD CROSSING	⊠
ROOT WAD	⊠



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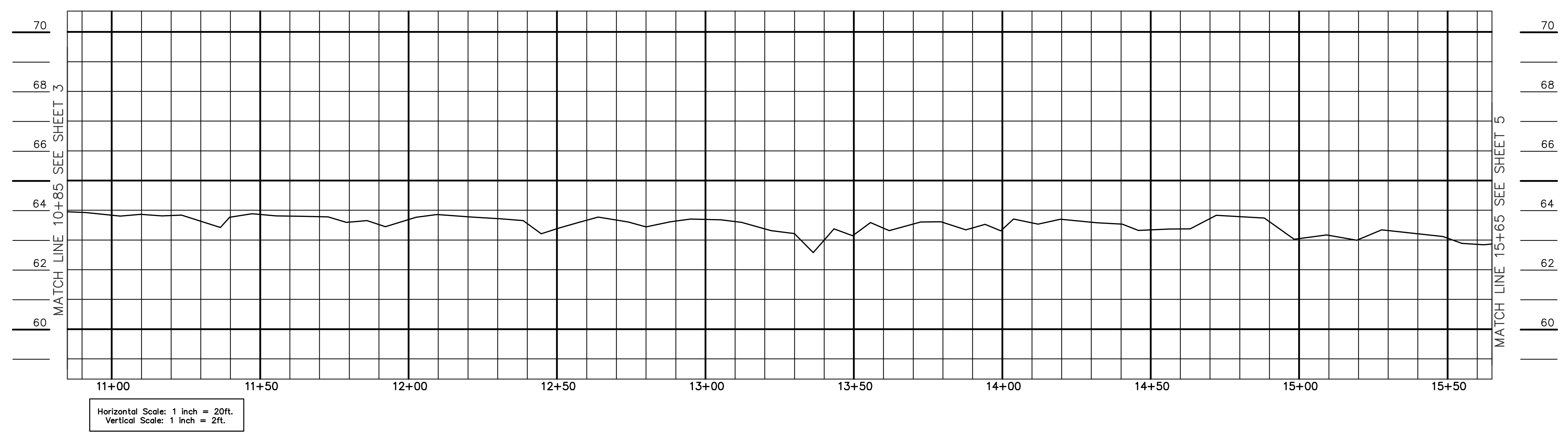
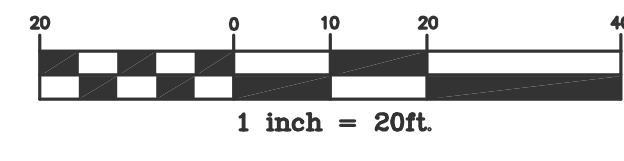
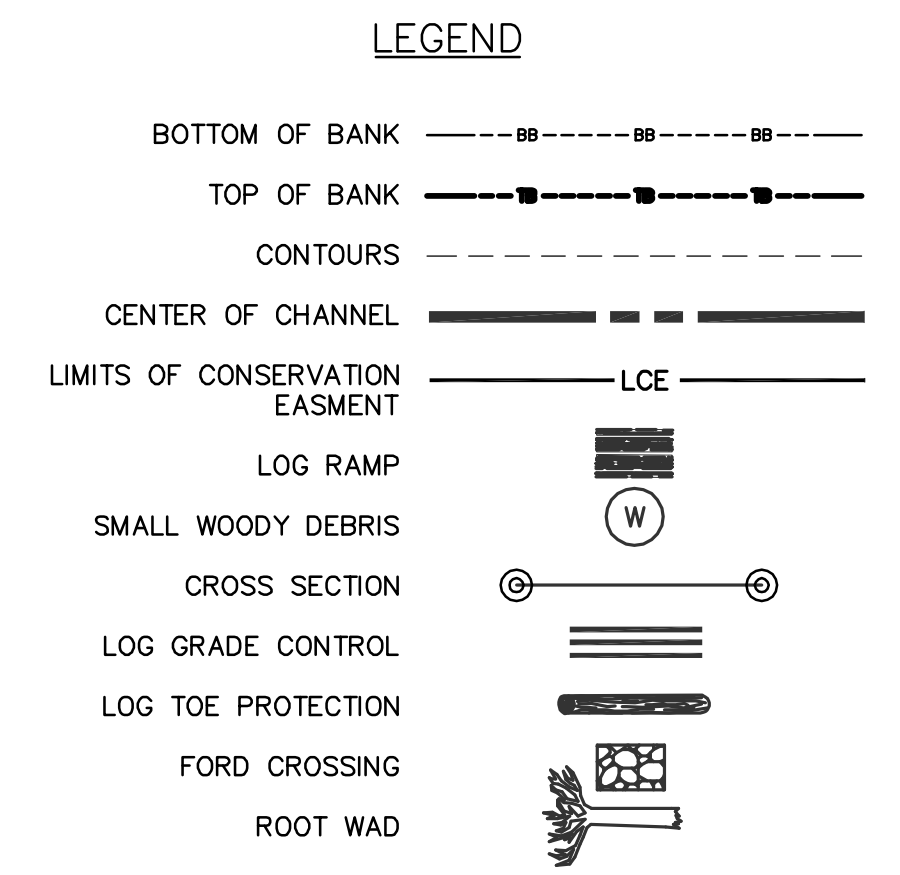
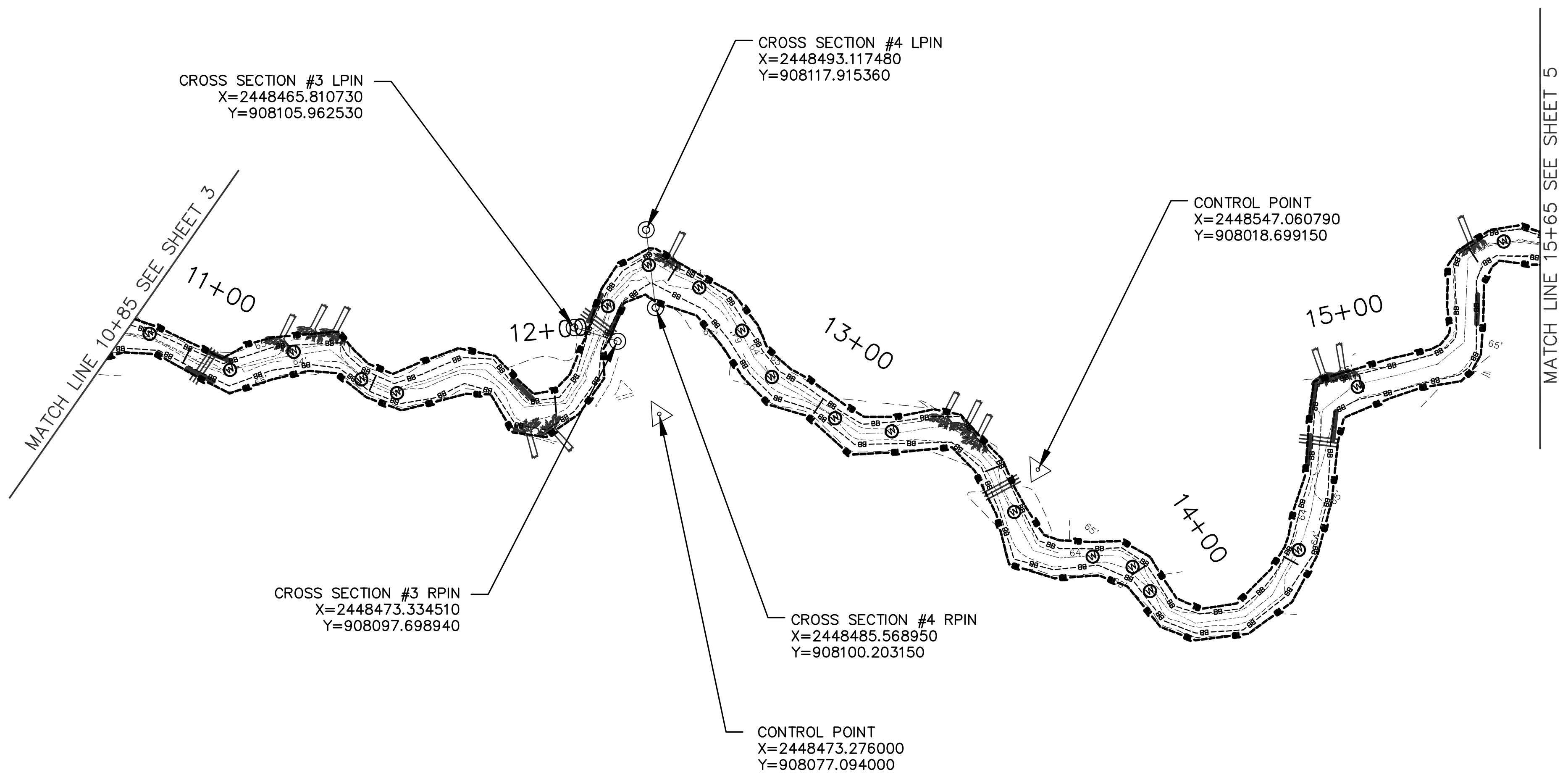


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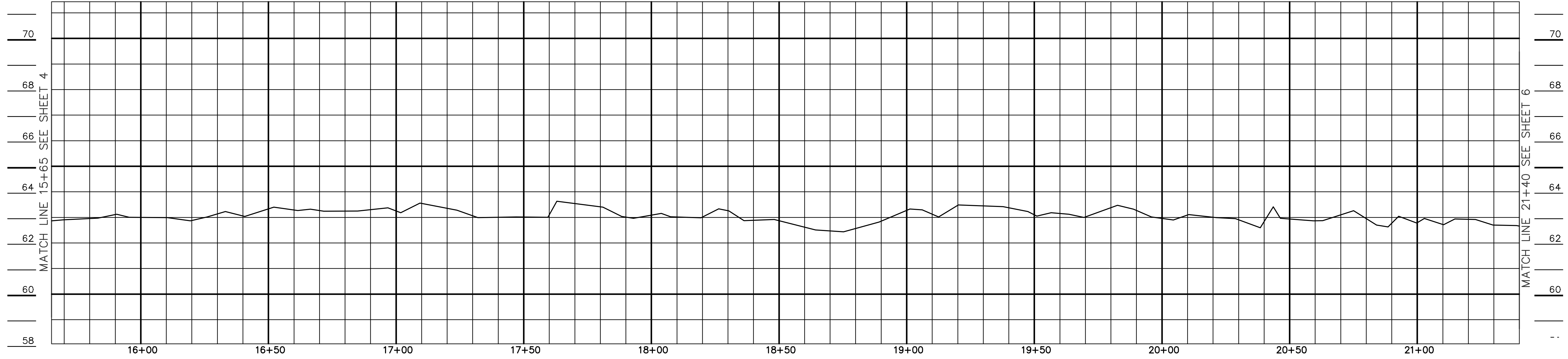
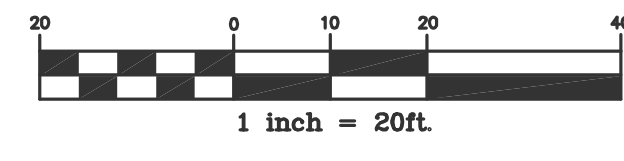
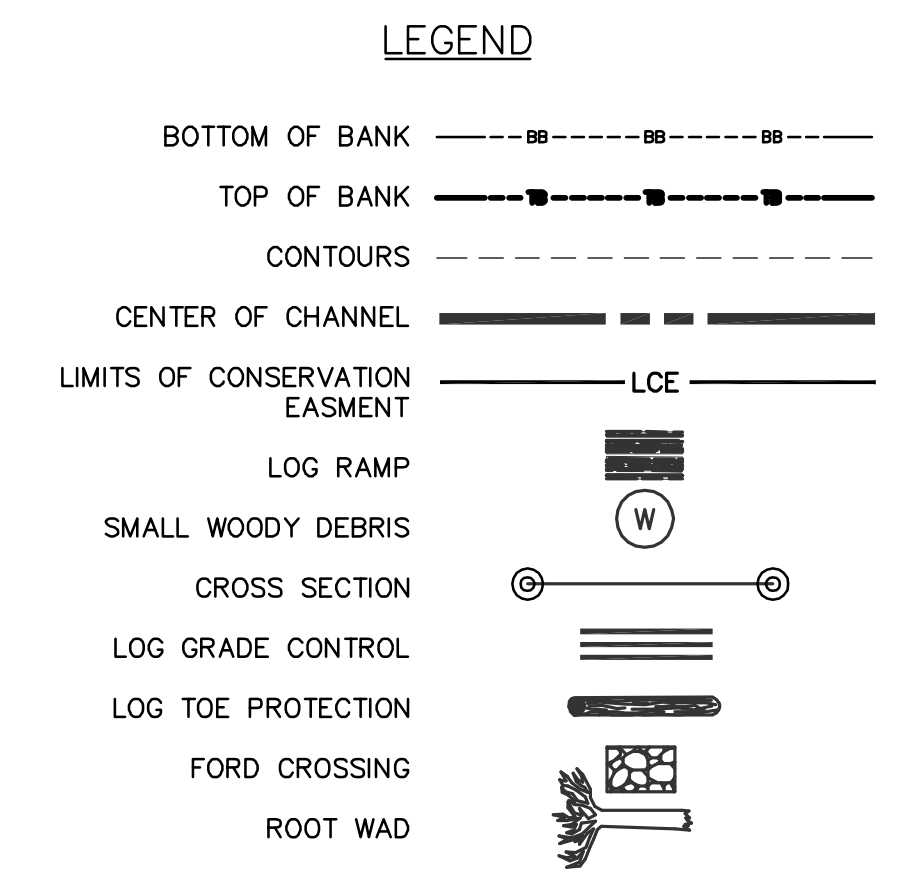
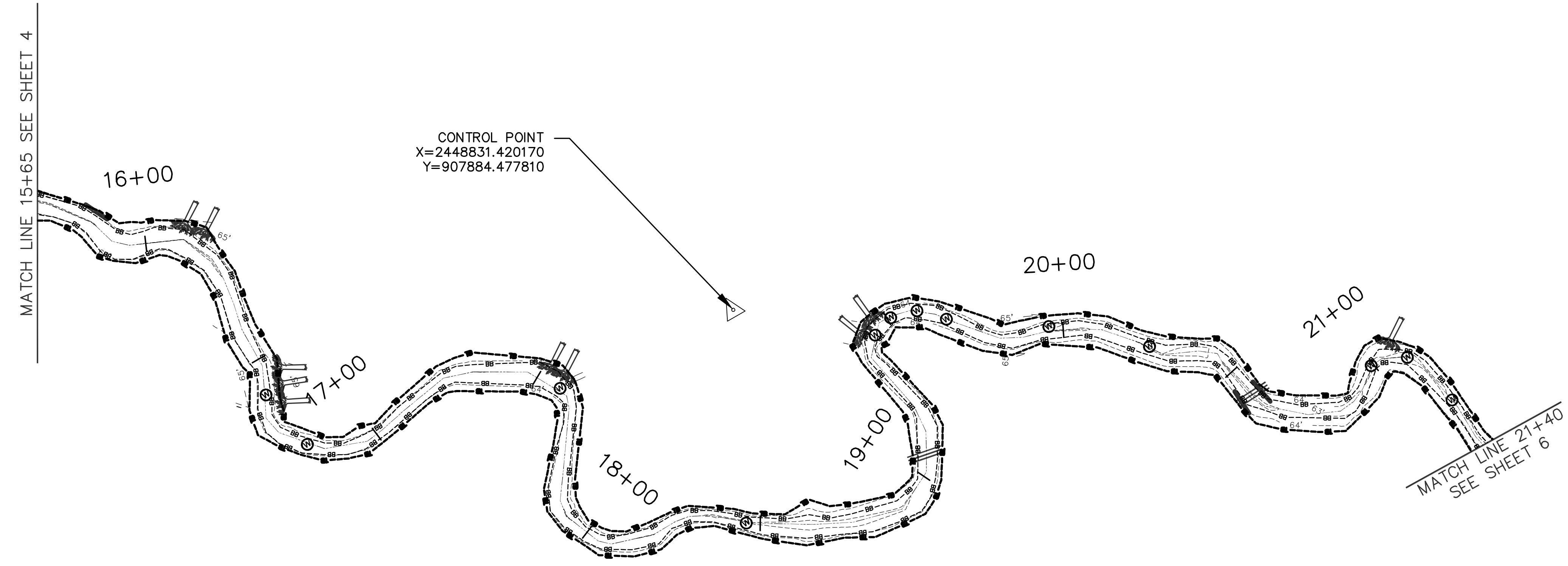
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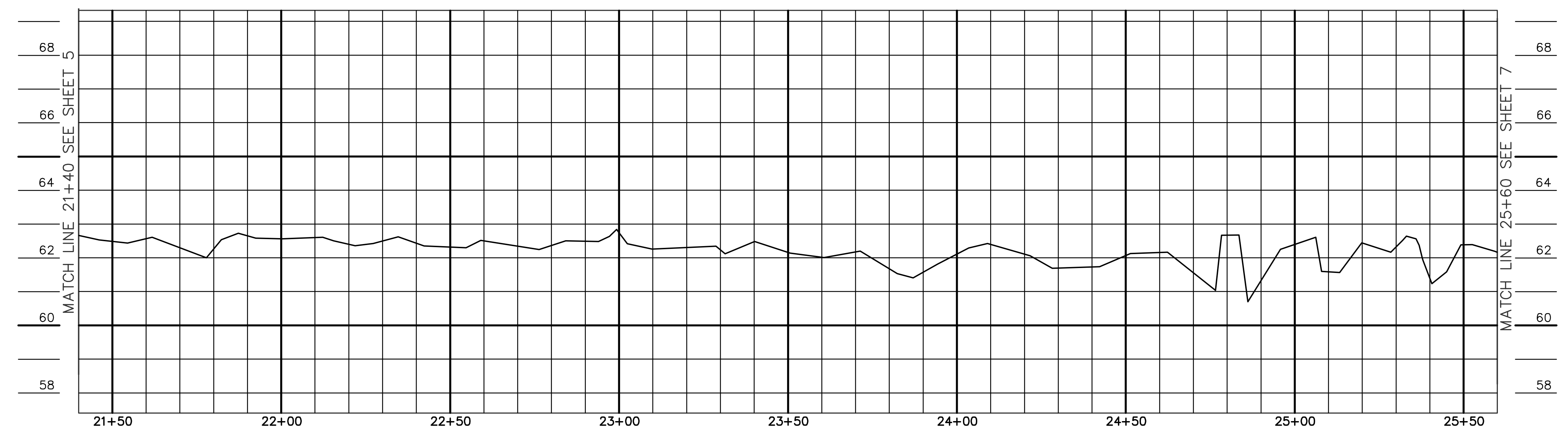
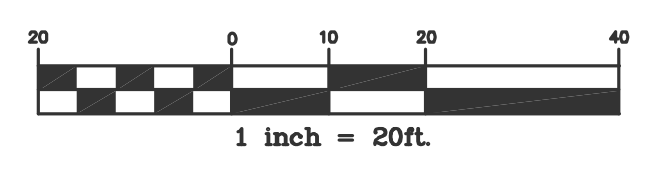
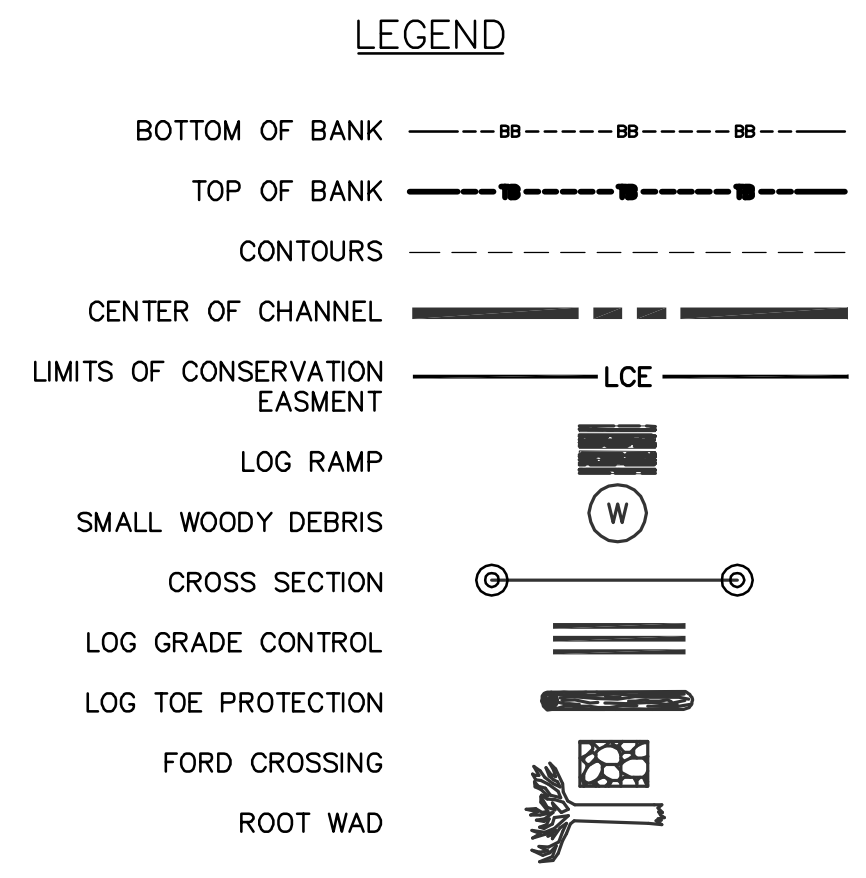
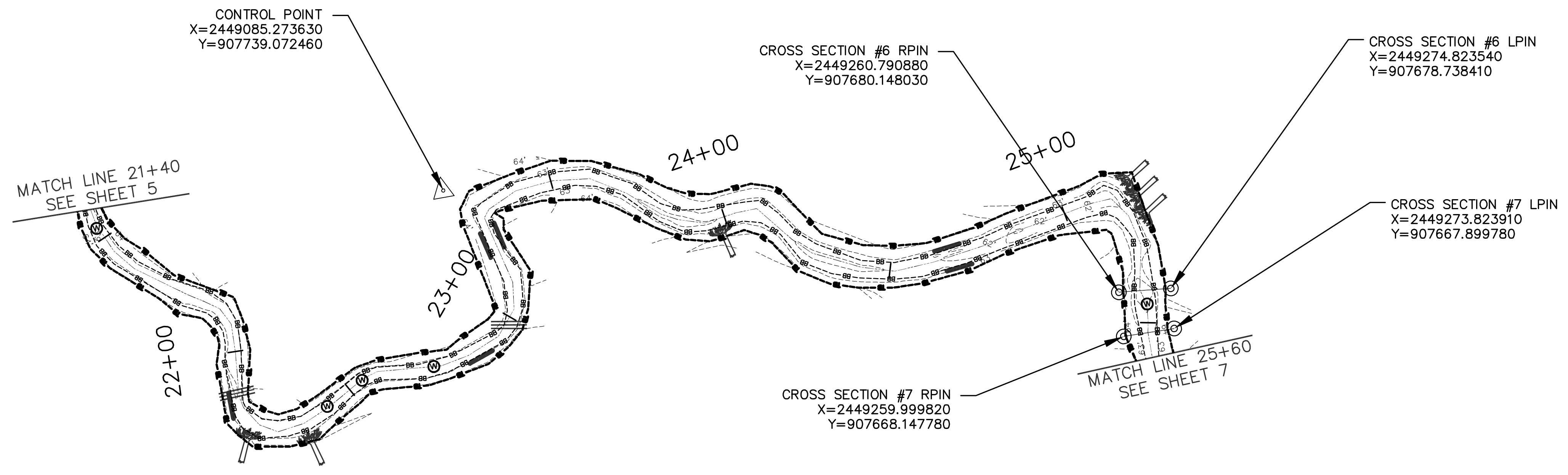
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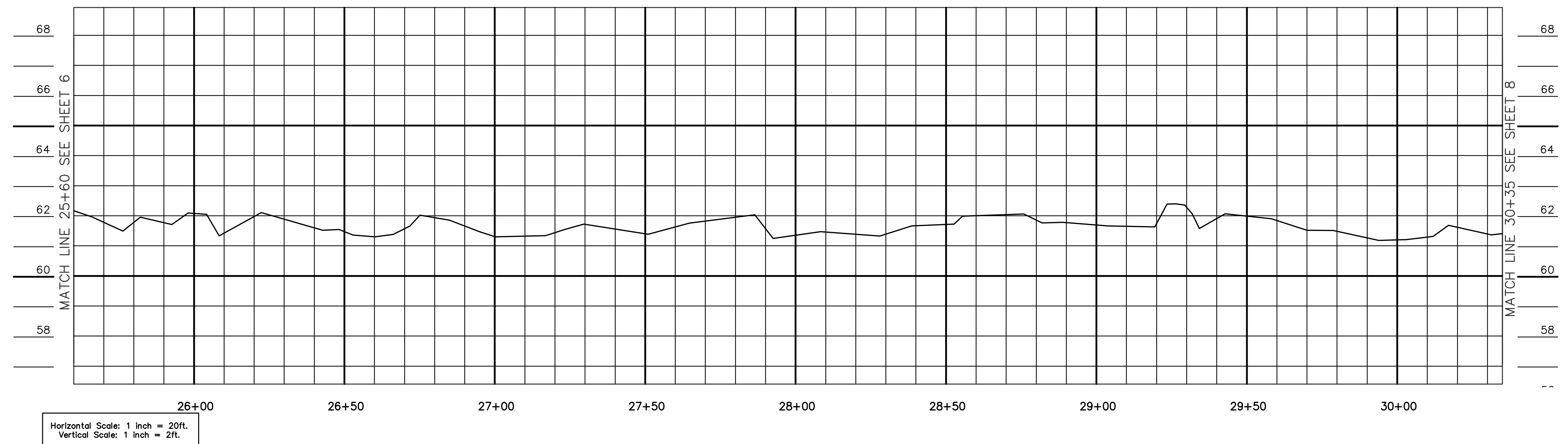
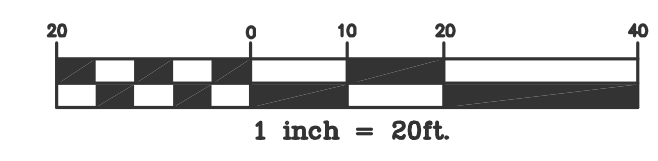
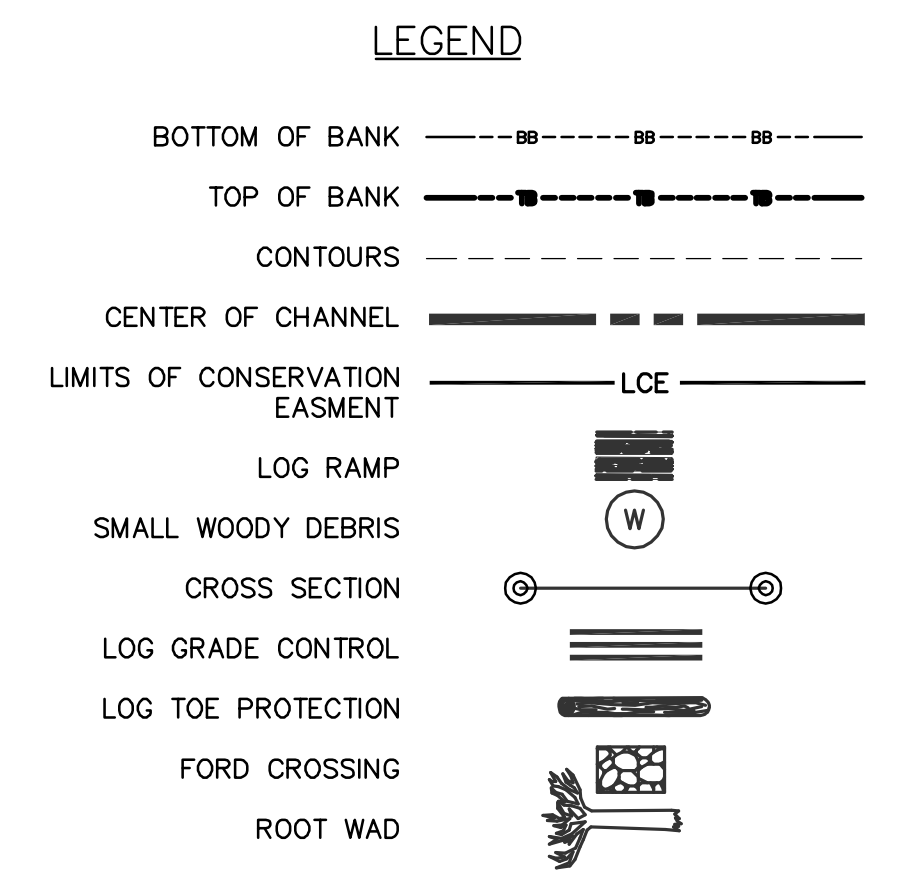
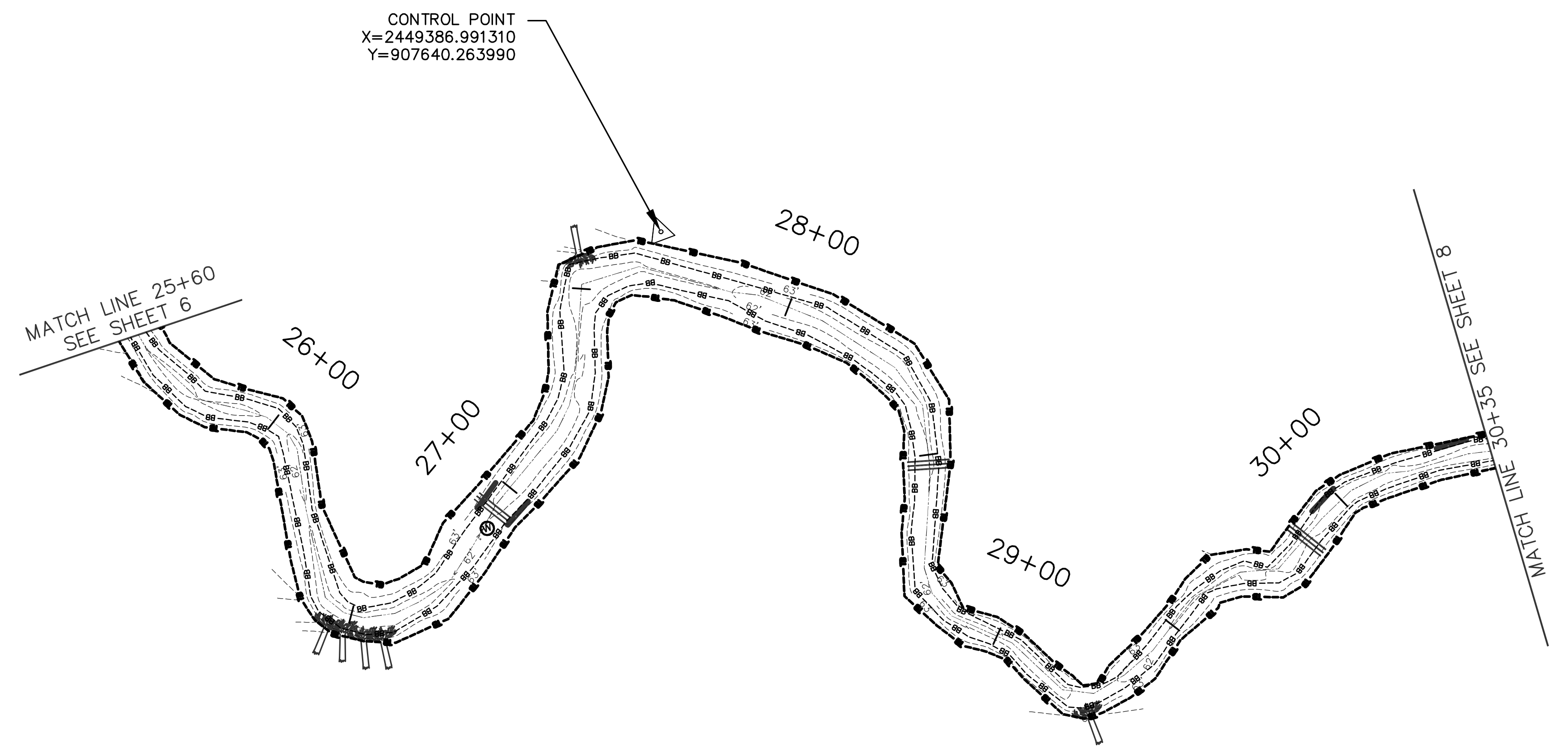
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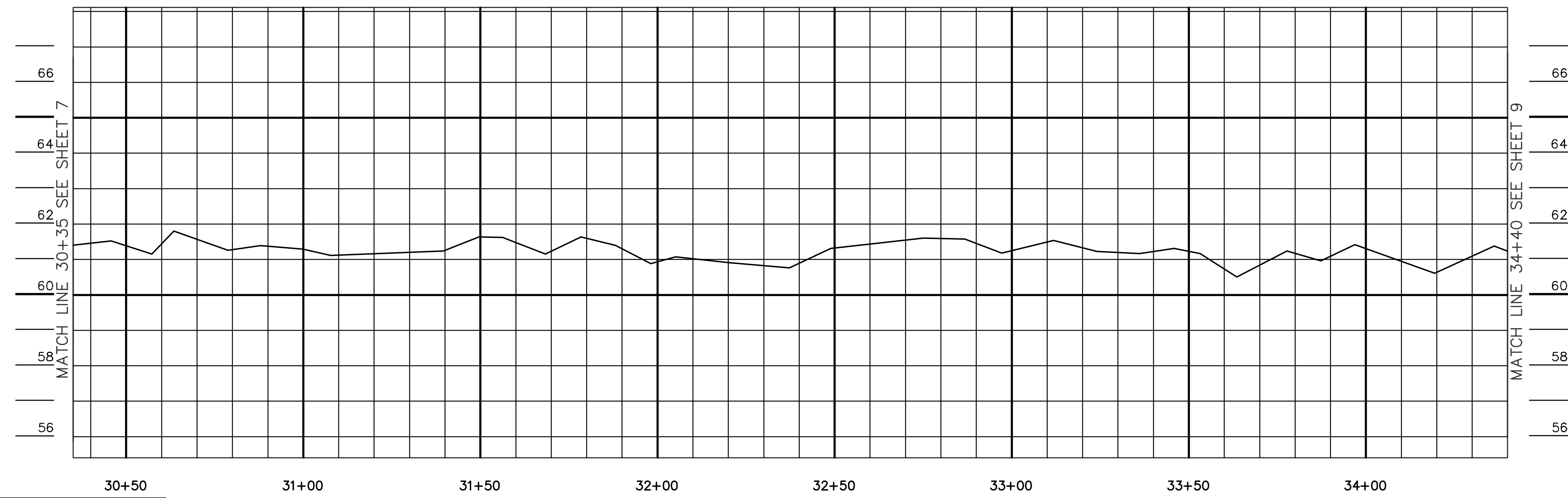
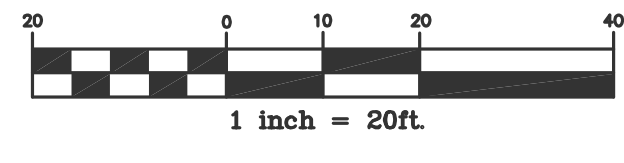
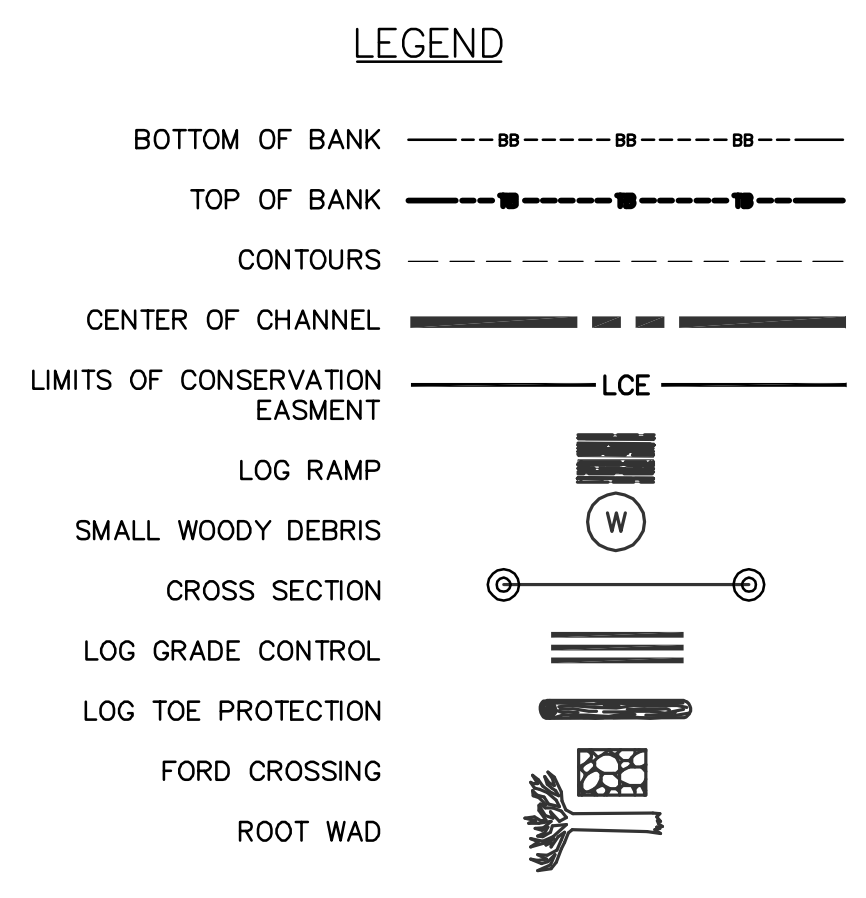
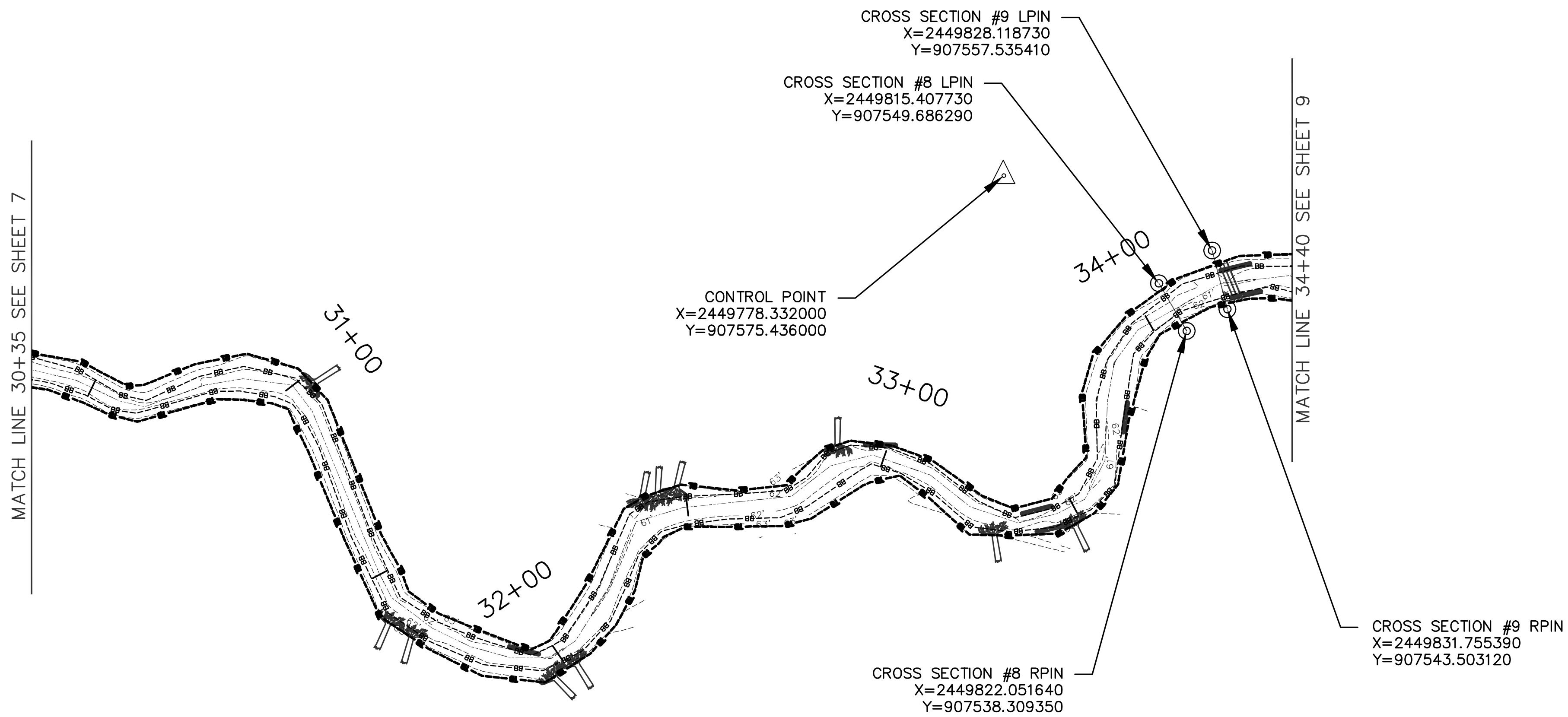
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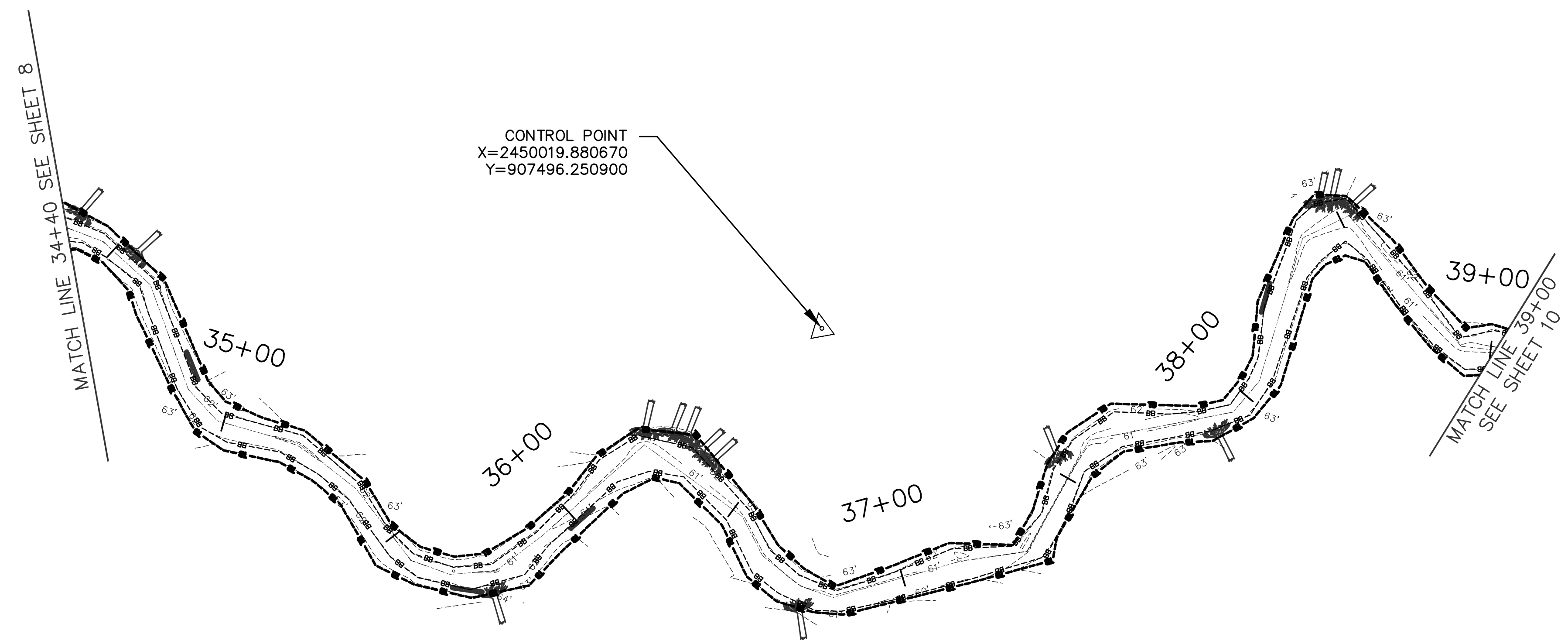
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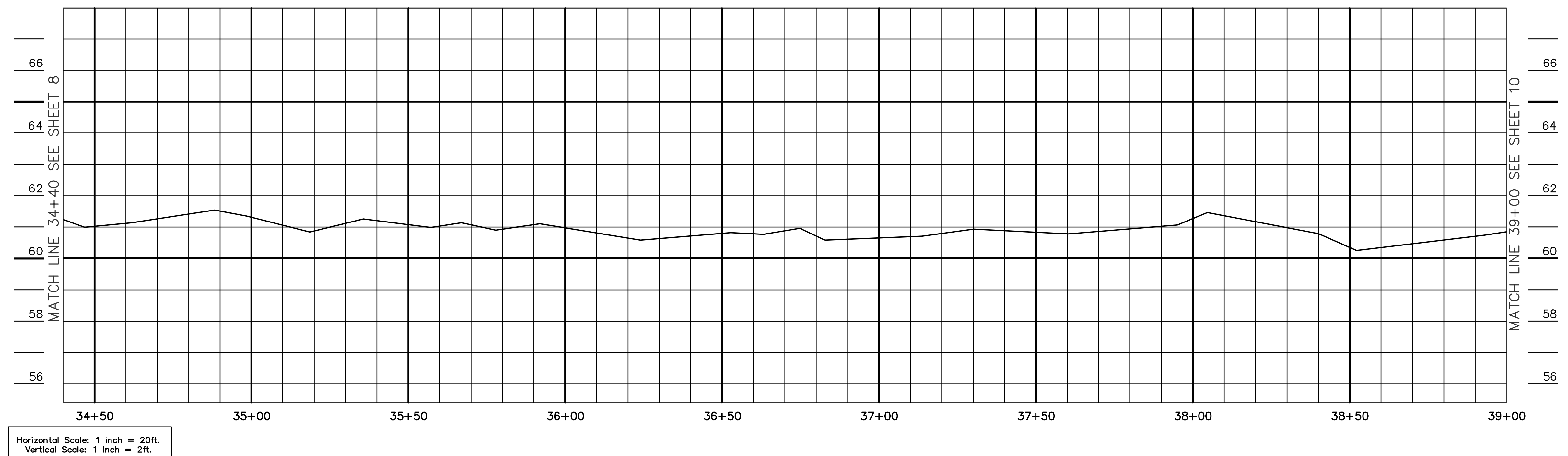
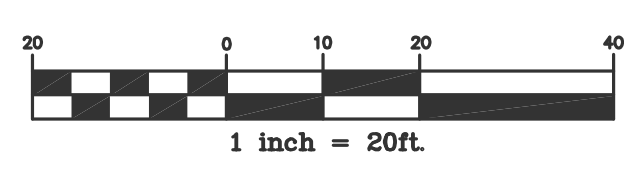
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**LEGEND**

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	▬▬▬▬▬▬



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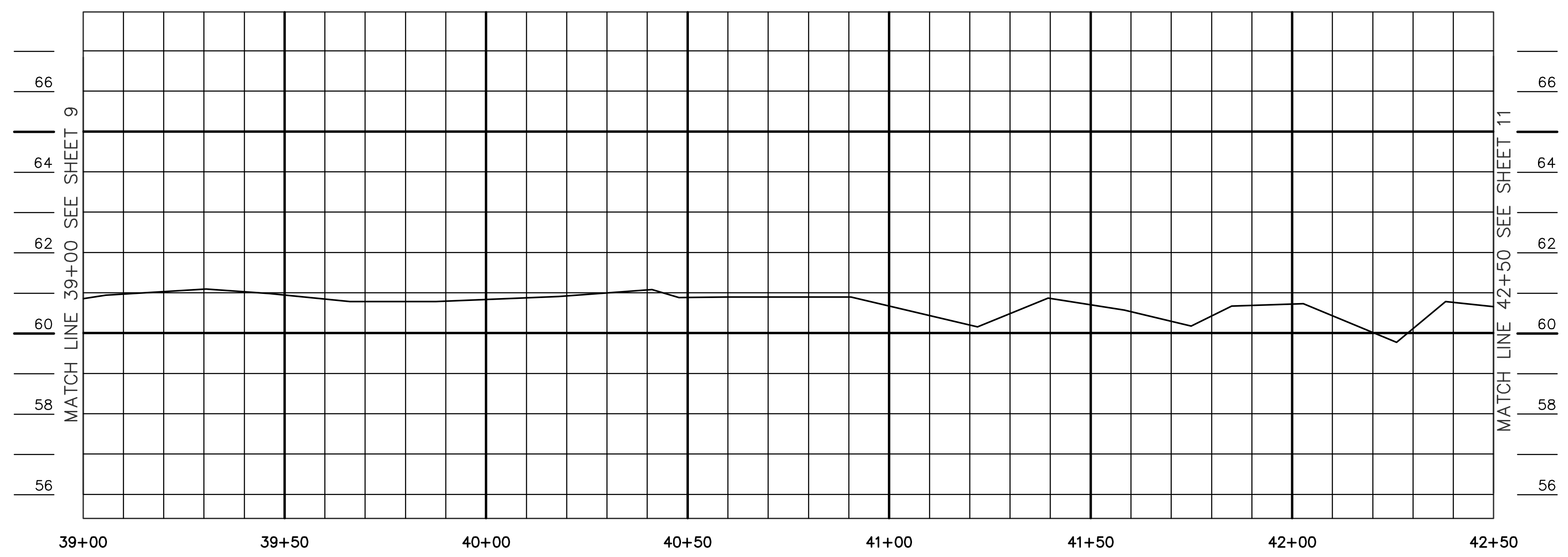
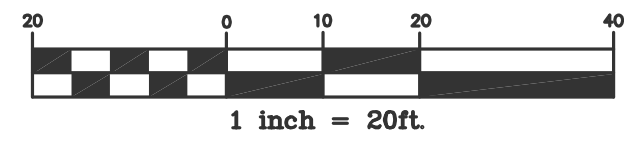
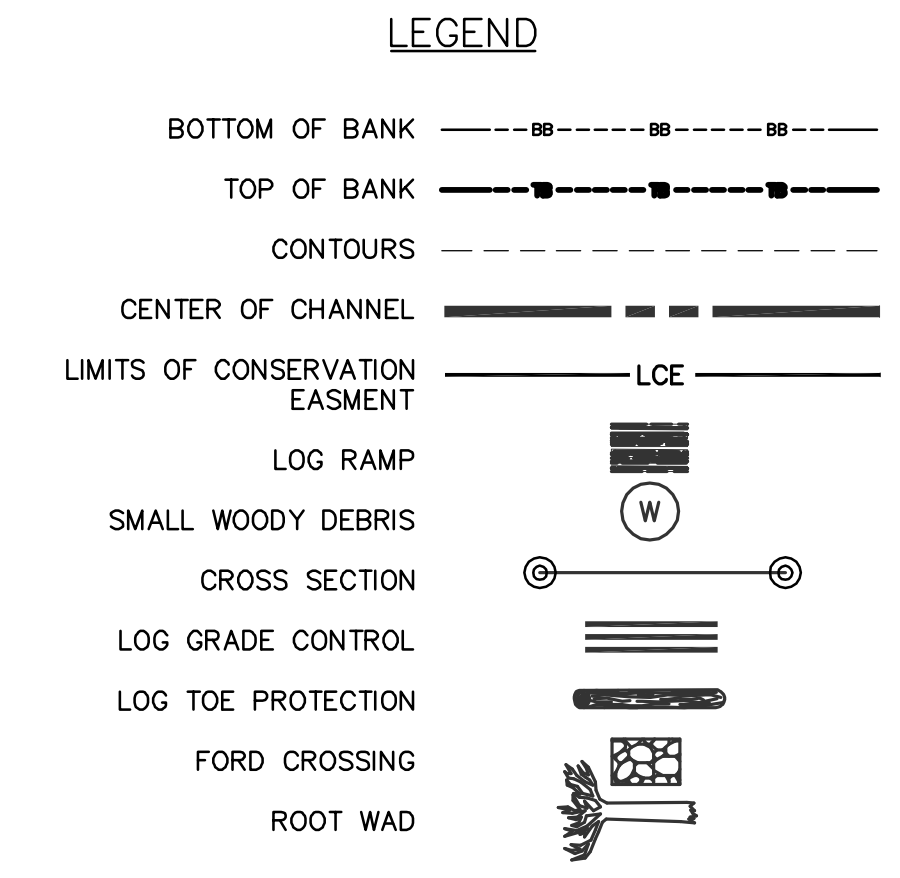
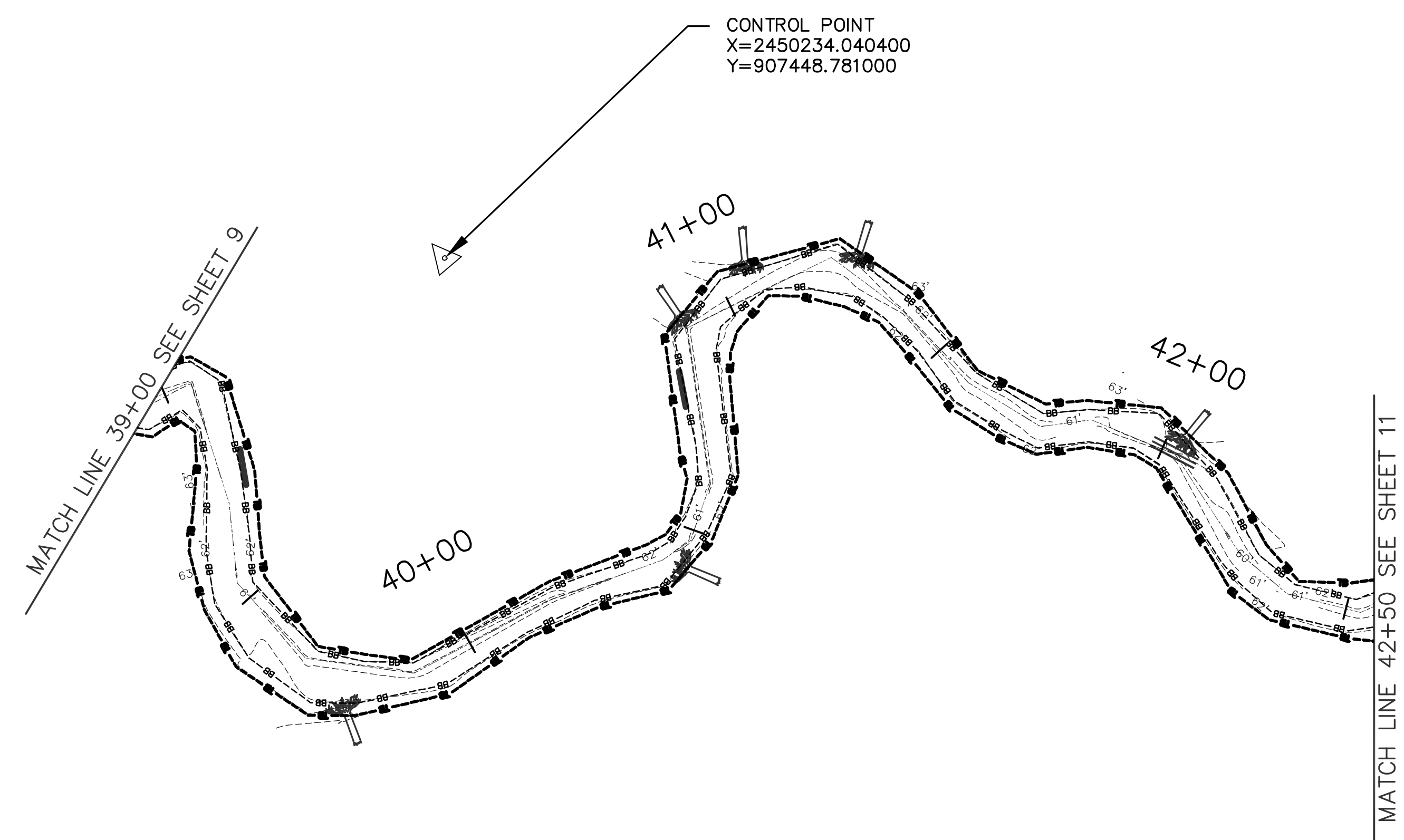


ENVIRONMENTAL BANC & EXCHANGE, LLC  
 CONOCONNARA RESTORATION  
 HALIFAX COUNTY, NORTH CAROLINA

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



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

REV. NO.	DESCRIPTION	DATE

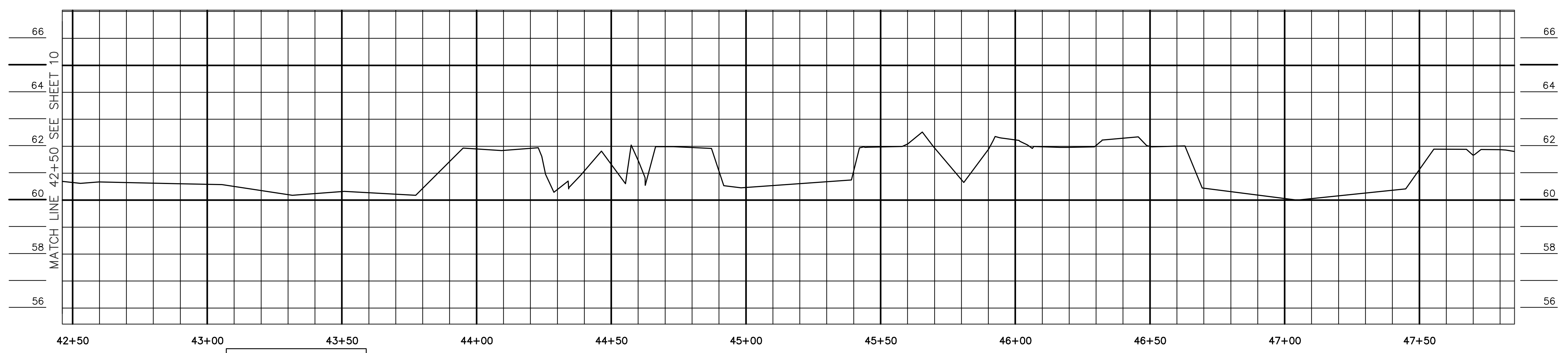
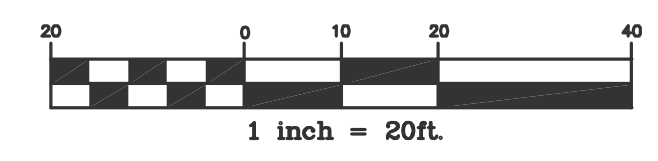
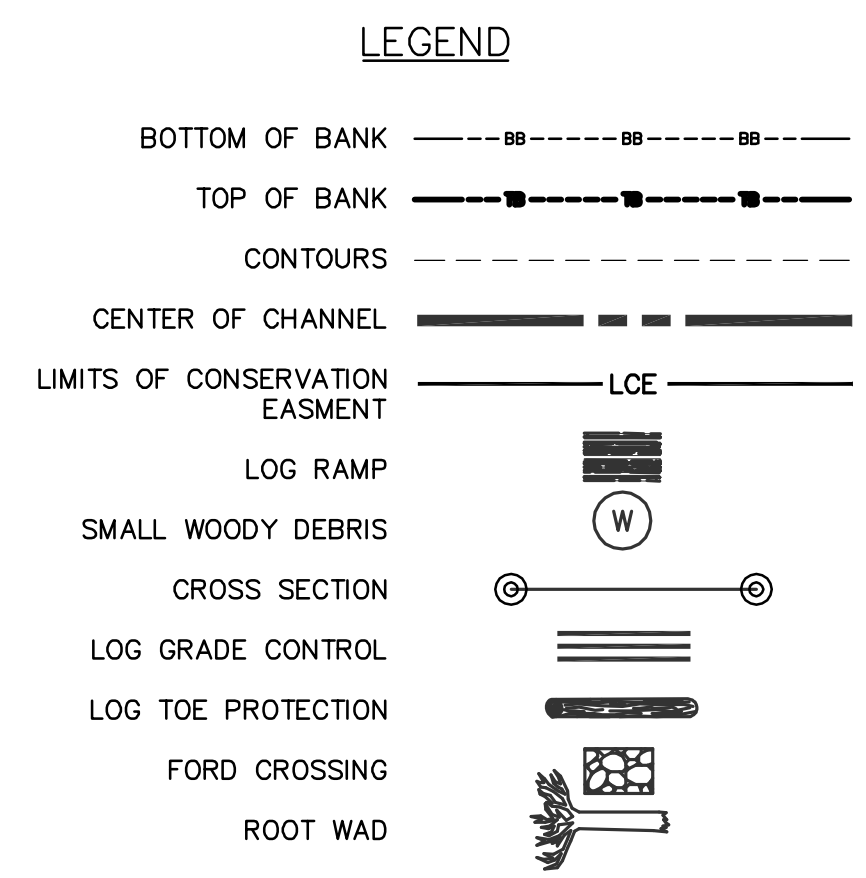
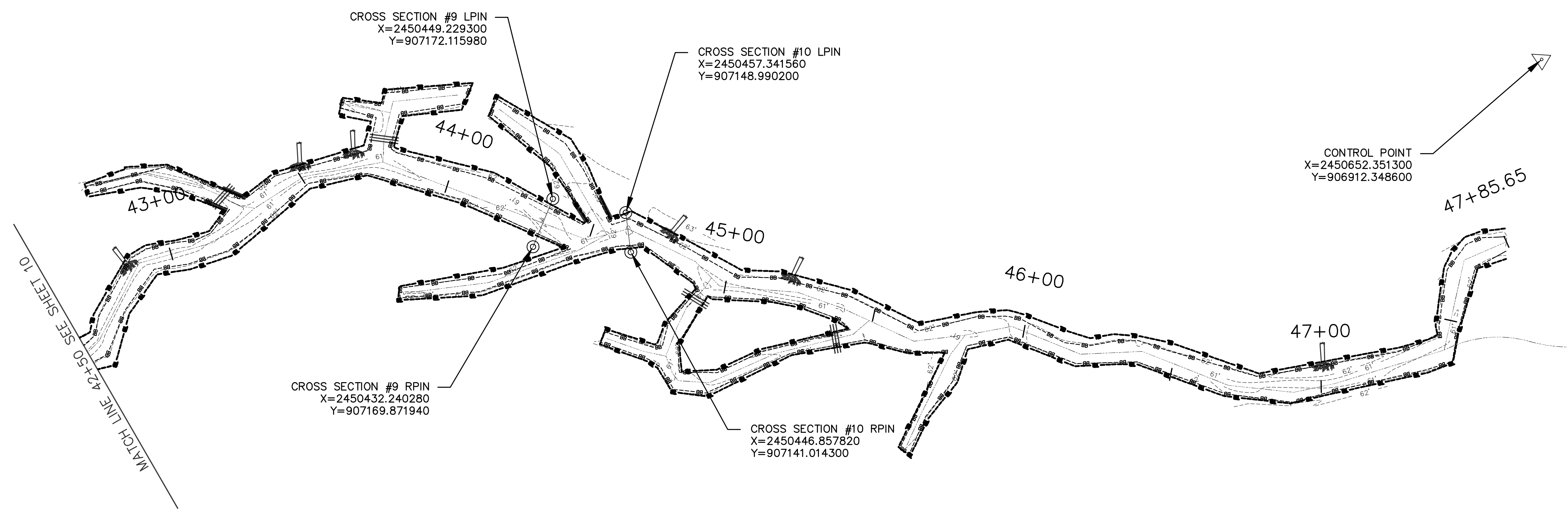
PROJECT MANAGER DPI DRAWN BY TRS APPROVED BY MSE FILE NAME 08-built.dwg	DRAWING SCALE 1" = 20' PROJECT DATE 06/20/06 PROJECT NUMBER 6002000RA PLOT DATE 04/15/07	community infrastructure consultants 3101 JOHN HUMPHRIES WYND RALEIGH, NC 27612 (919) 782-0495 Office Locations: North Carolina South Carolina Georgia Florida	RELEASED FOR DATE APPROVALS BIDDING CONSTRUCTION RECORD DWG.
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ENVIRONMENTAL BANC & EXCHANGE, LLC  
 CONOCOCCNARA RESTORATION  
 HALIFAX COUNTY, NORTH CAROLINA

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

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

REV. NO.	DESCRIPTION	DATE

PROJECT MANAGER	DRAWING SCALE
DPI	1" = 20'
DRAWN BY	PROJECT DATE
TRC	06/2006
APPROVED BY	PROJECT NUMBER
MSE	6002000RA
FILE NAME	PLOT DATE
cs-built.dwg	04/13/07



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

RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	



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

CONOCONNARA AS-BUILT PLANS  
 STA. 42+50 TO STA. 47+86



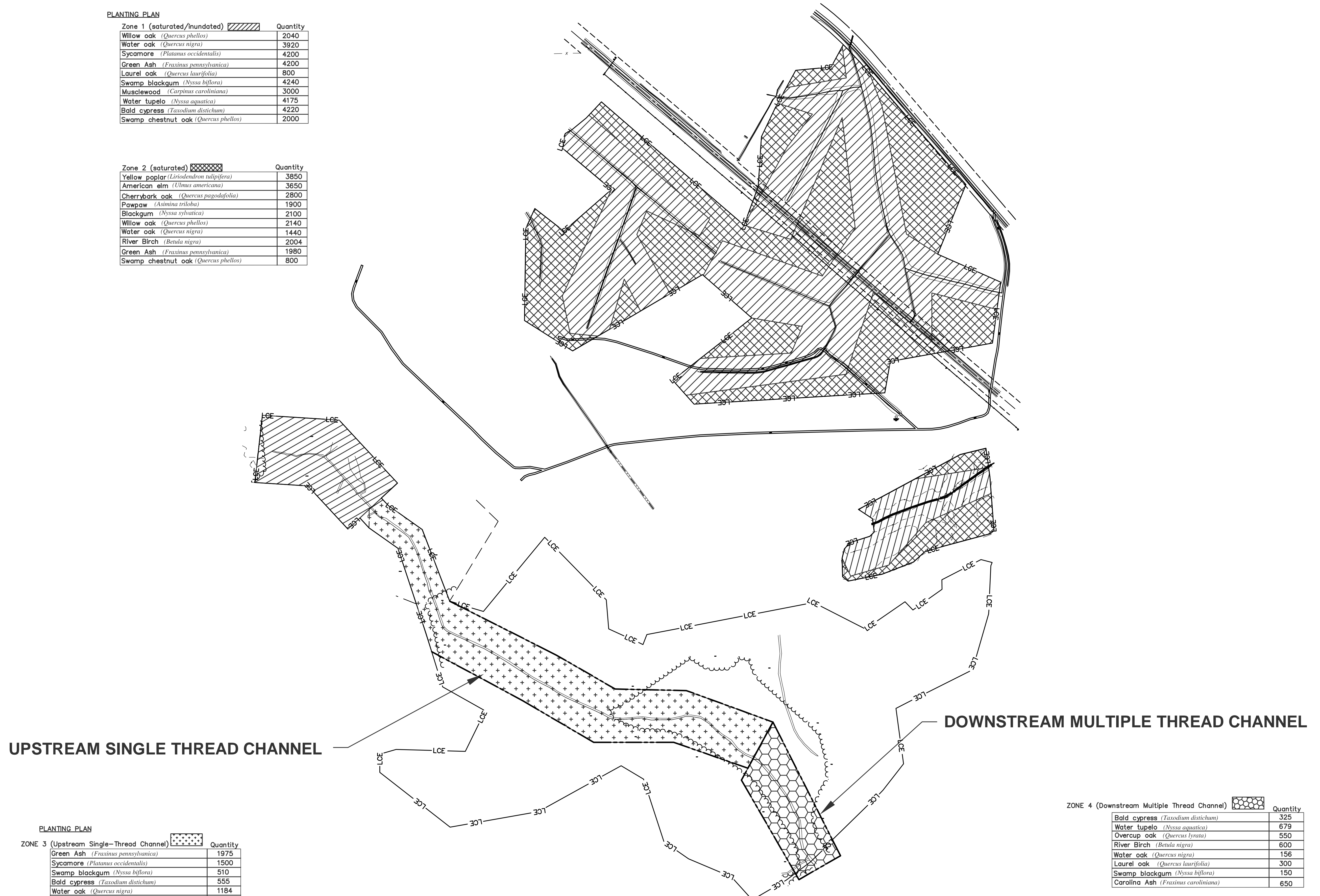
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**PLANTING PLAN**

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

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



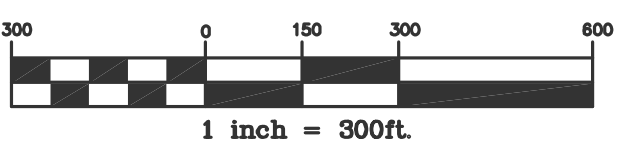
**UPSTREAM SINGLE THREAD CHANNEL**

**DOWNSTREAM MULTIPLE THREAD CHANNEL**

**PLANTING PLAN**

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



REV. NO.	DESCRIPTION	DATE

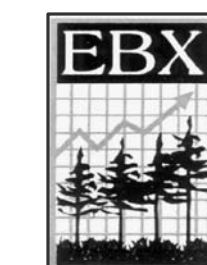
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DRAWN BY TRS	PROJECT DATE 06/2006
APPROVED BY ME	PROJECT NUMBER 6022000RA
FILE NAME wetland.dwg	PLOT DATE 04/13/2007



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(919) 782-0495

Office Locations:  
North Carolina    Georgia  
South Carolina    Florida

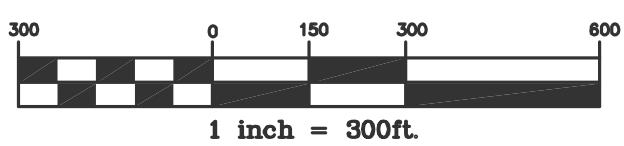
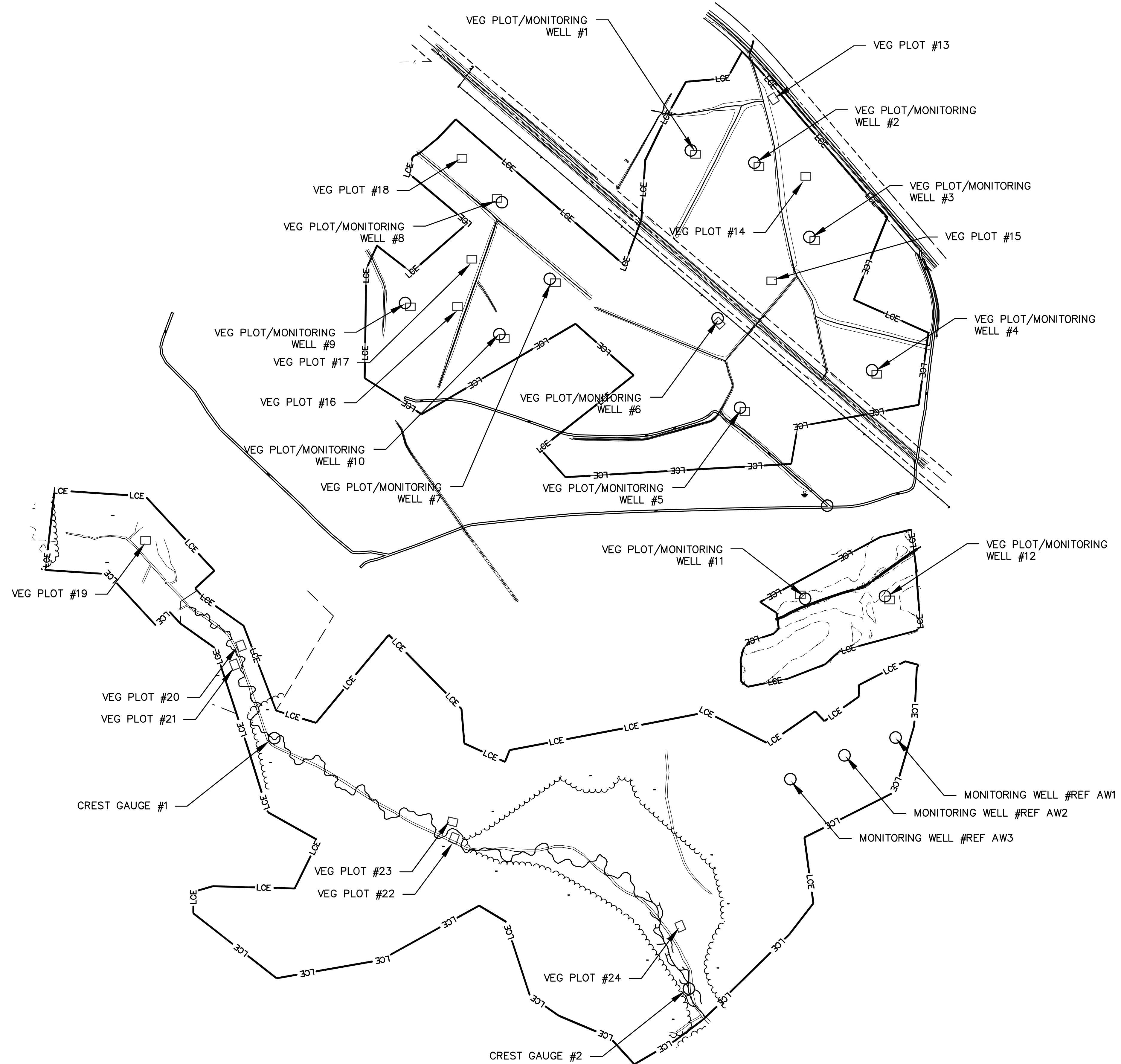
RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	



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

AS-BUILT  
PLANTING PLAN

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REV. NO.	DESCRIPTION	DATE

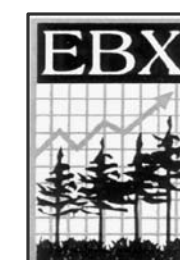
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DRAWN BY TRS	PROJECT DATE 06/2006
APPROVED BY ME	PROJECT NUMBER S022000RA
FILE NAME wetland.dwg	PLOT DATE 04/13/2007



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 RALEIGH, NC 27612  
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APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	

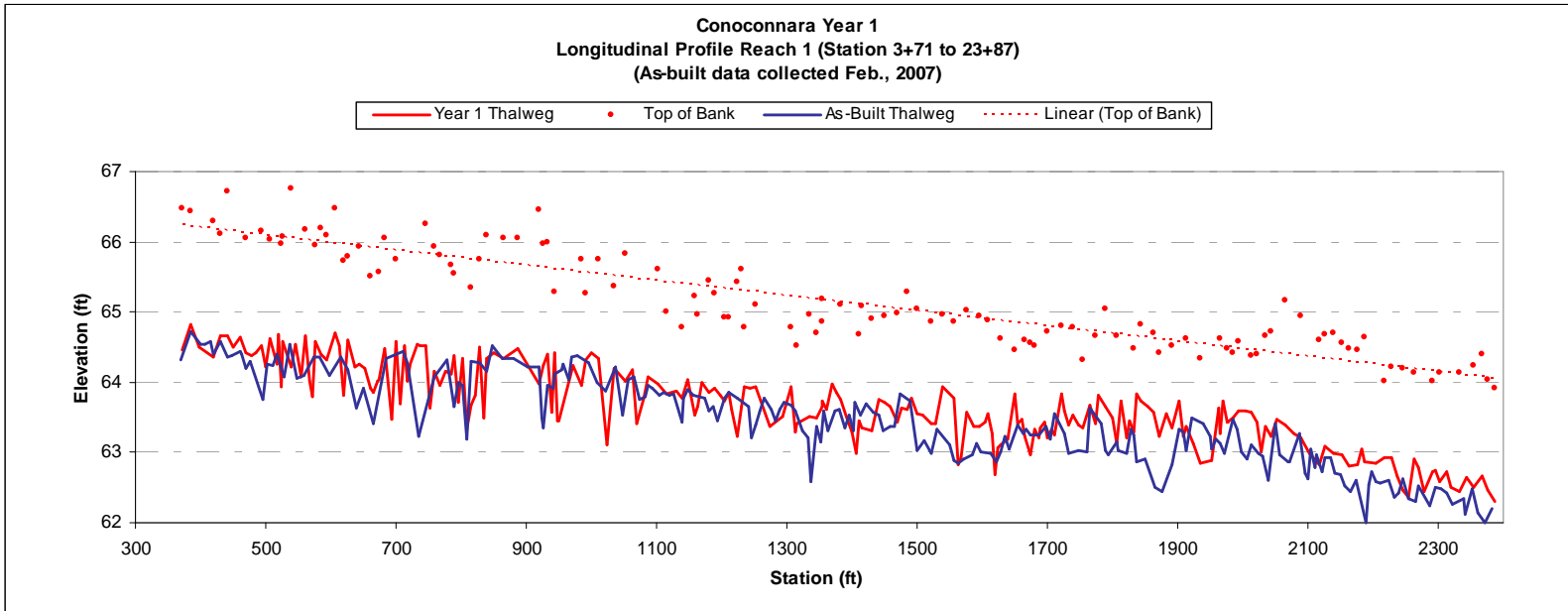
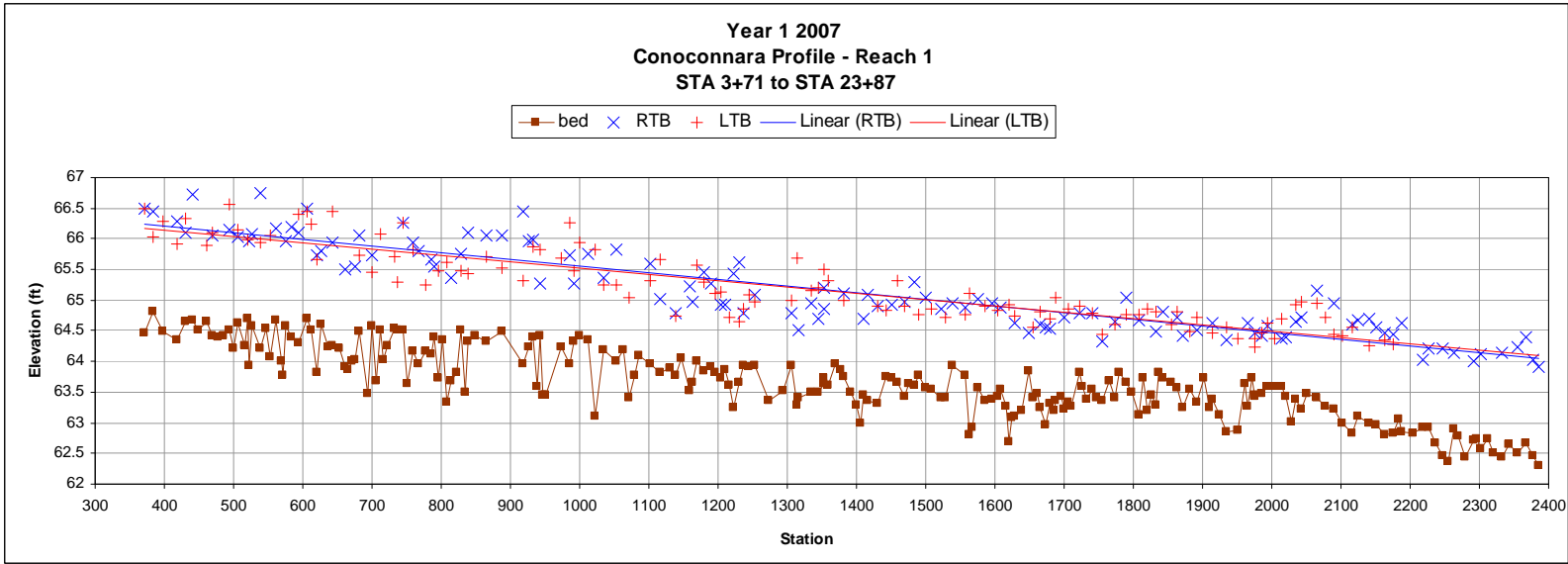


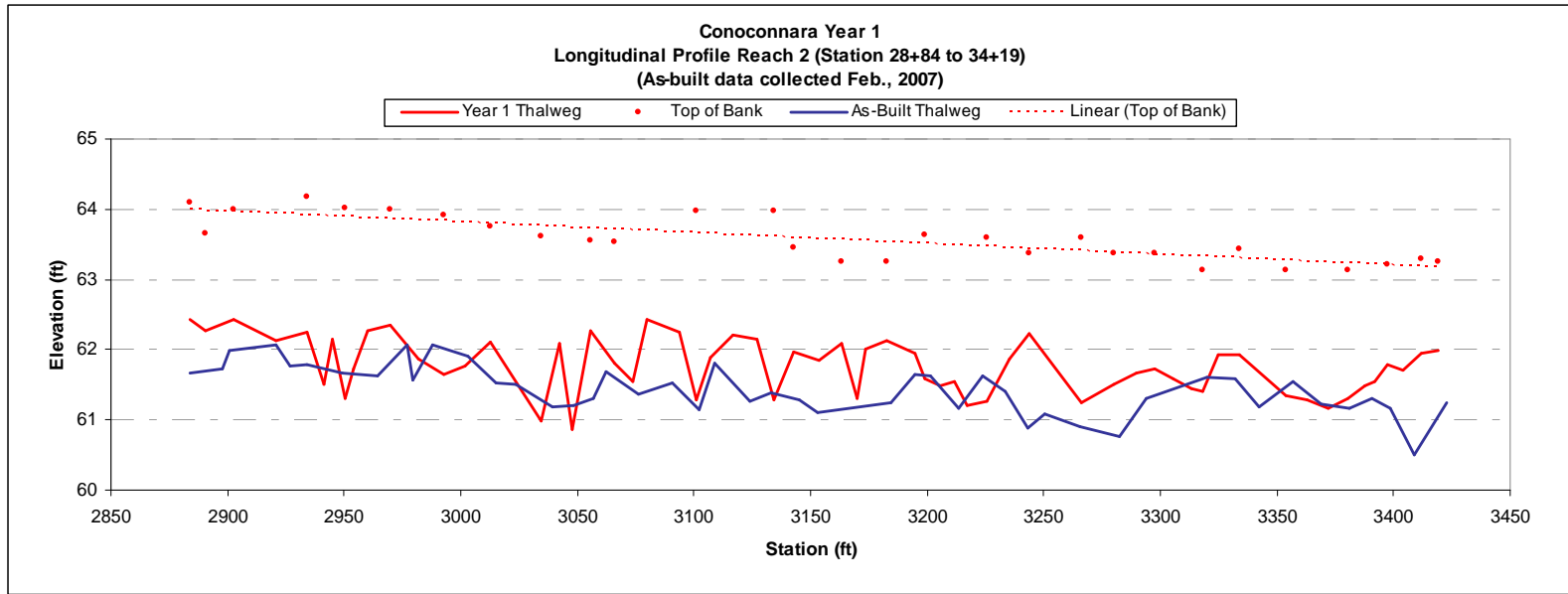
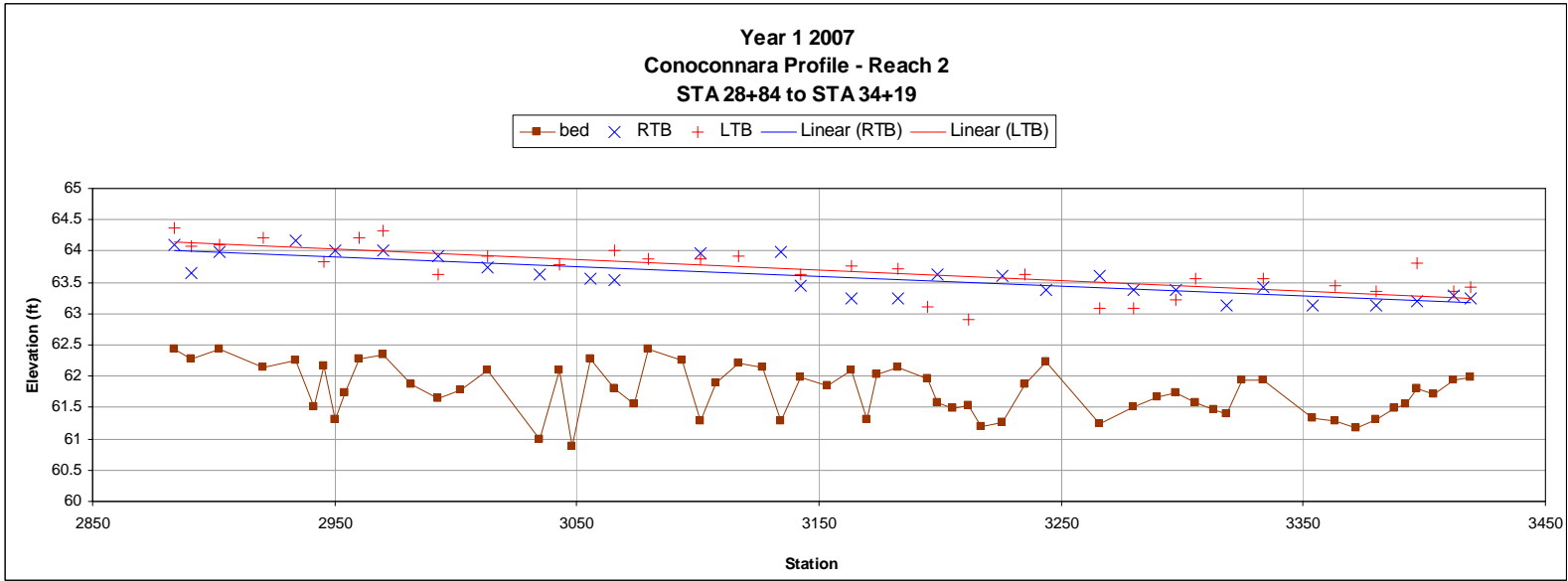
ENVIRONMENTAL BANC & EXCHANGE, LLC  
 CONOCOCCONNARA RESTORATION  
 HALIFAX COUNTY, NORTH CAROLINA

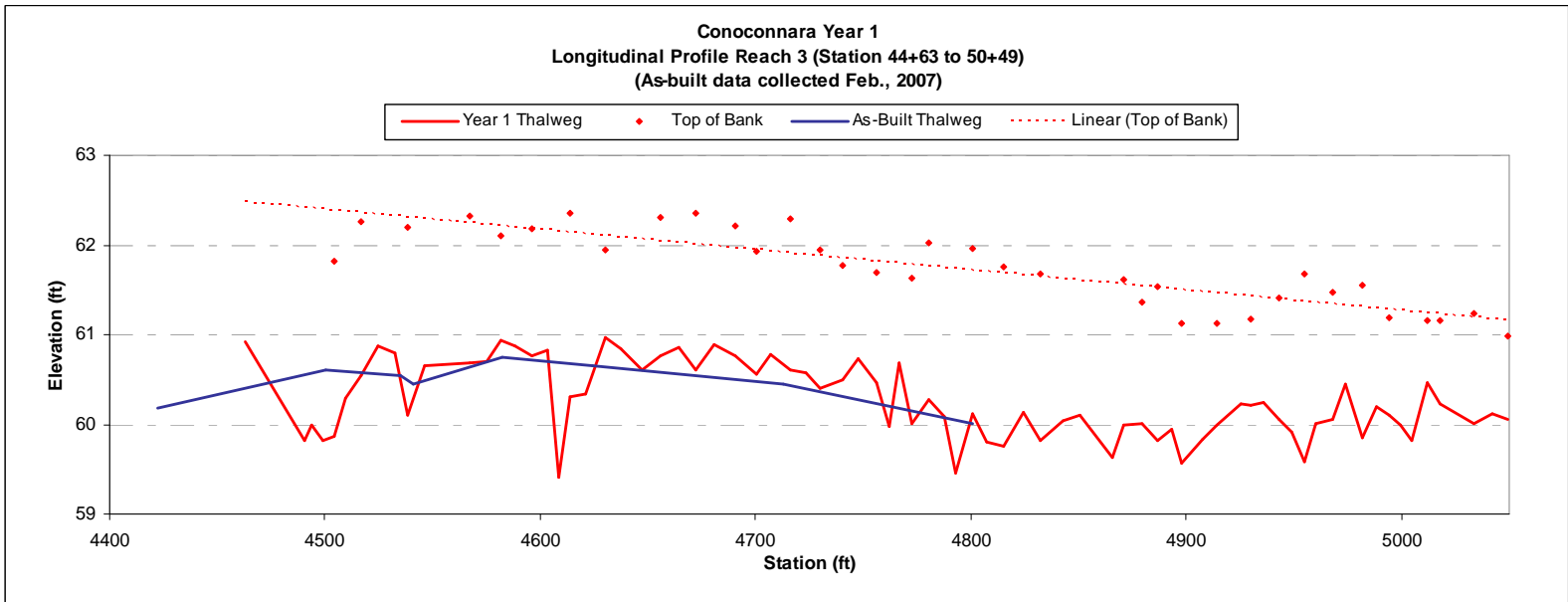
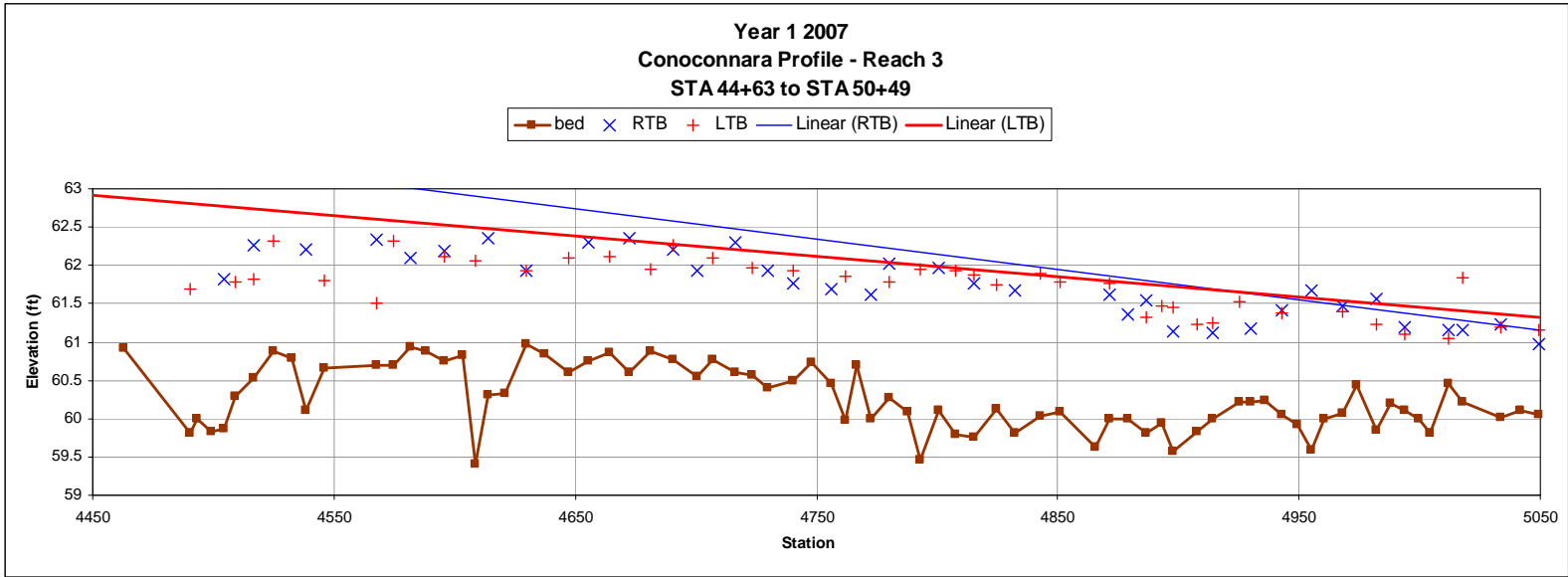
WELL/VEG PLOT LOCATIONS

# **APPENDIX B**

## **2007 Profile and Cross Section Data**







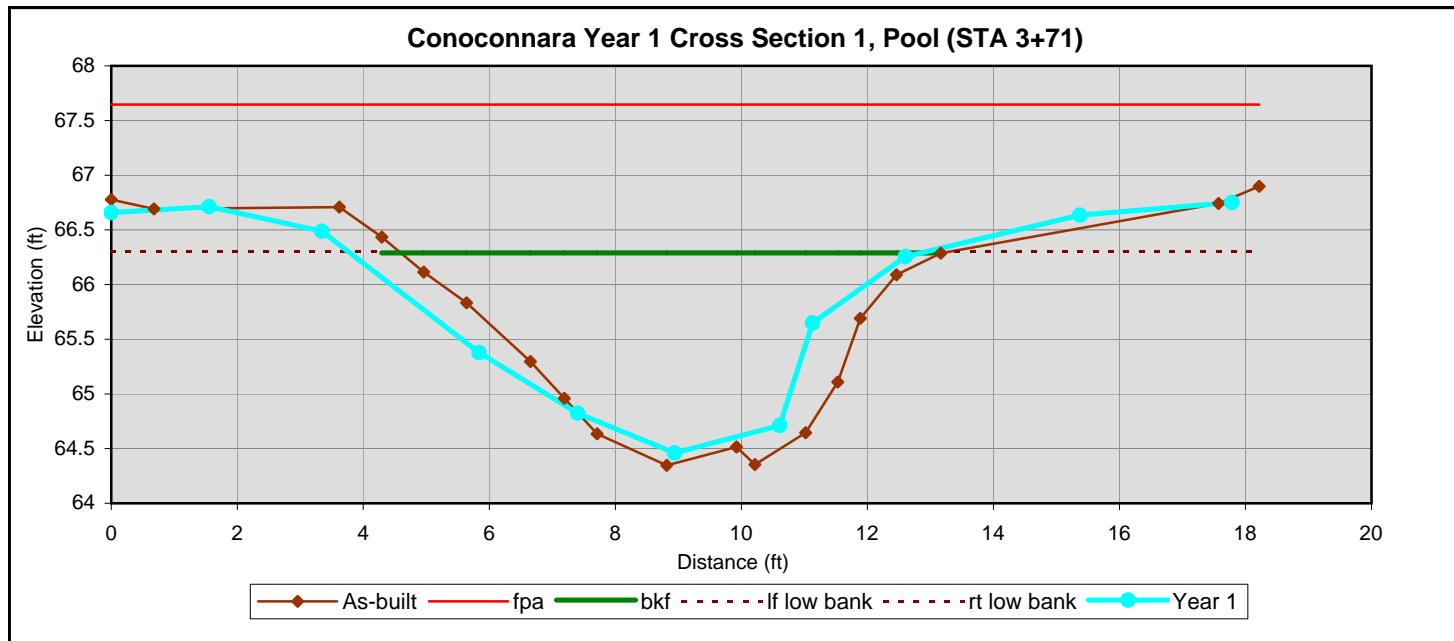




Left bank



Right bank

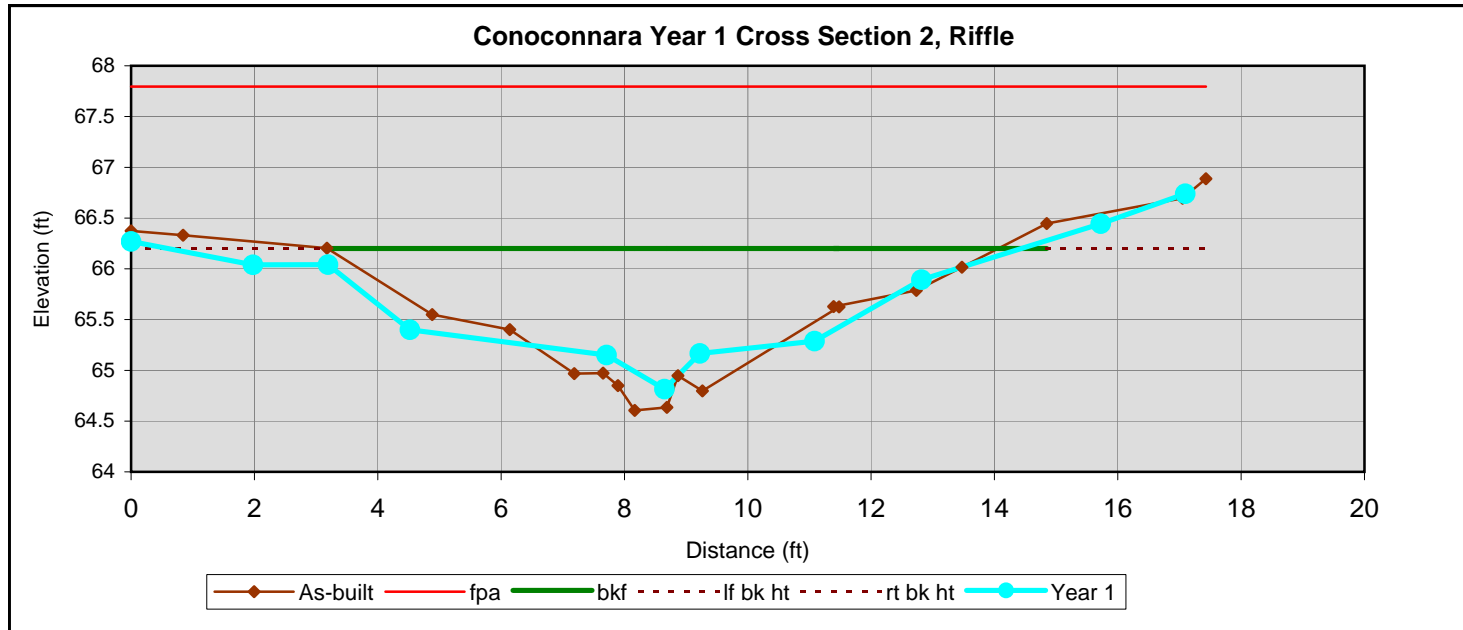




Left bank



Right bank



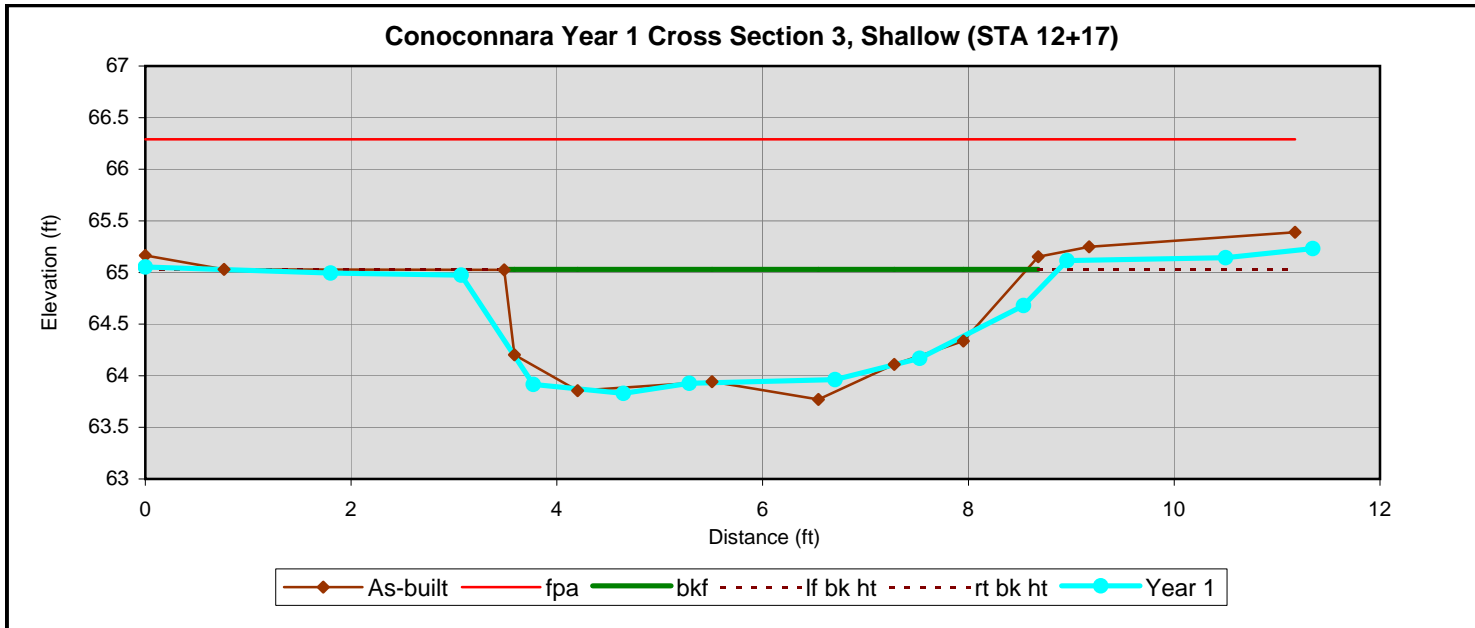


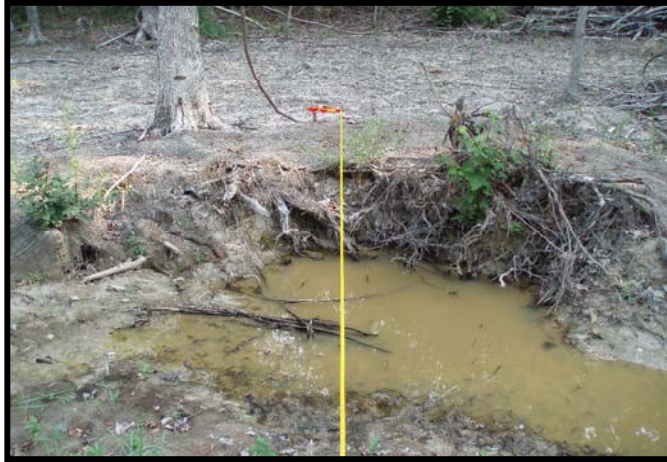


Left bank



Right bank

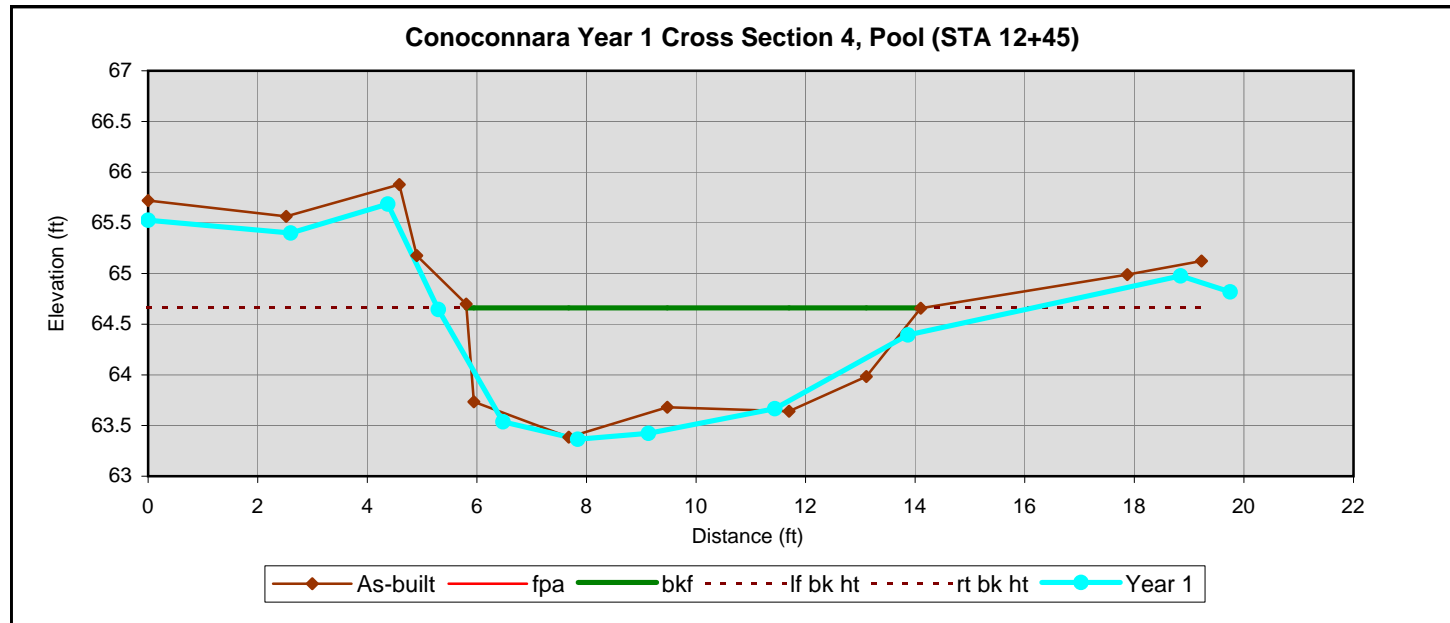




Left bank



Right bank

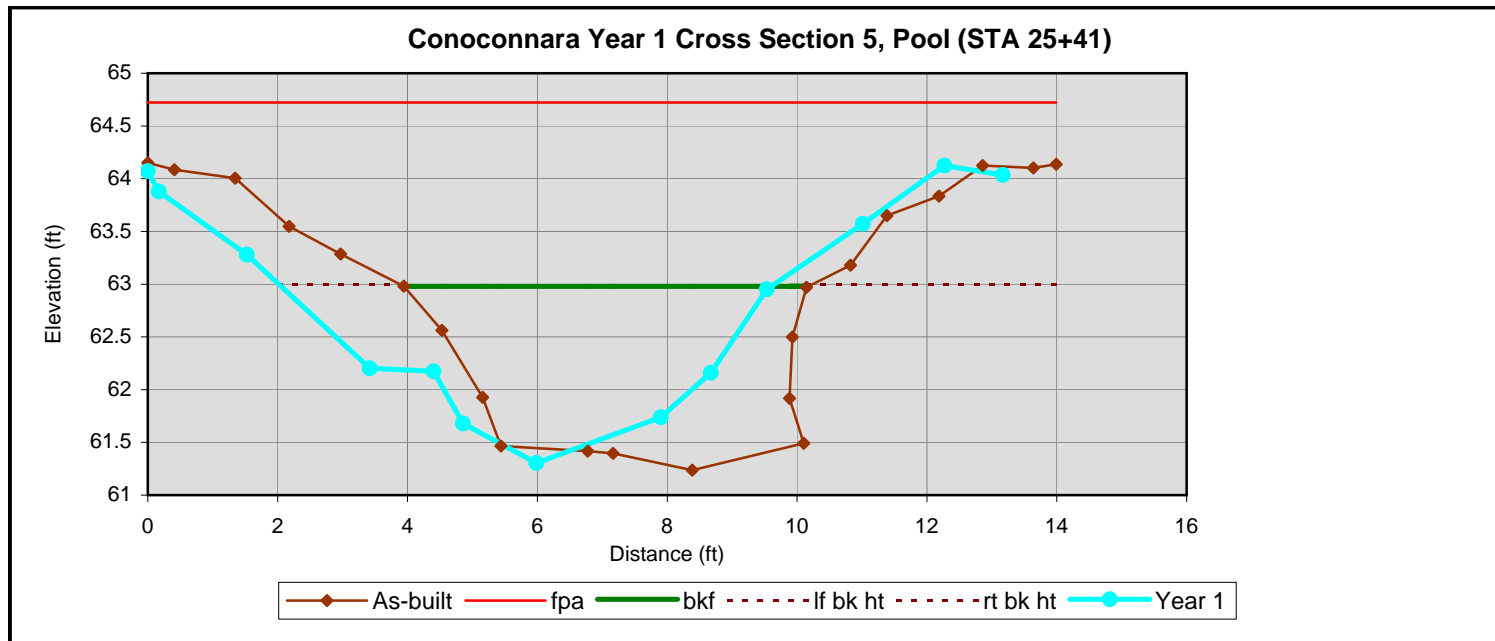




Left bank



Right bank



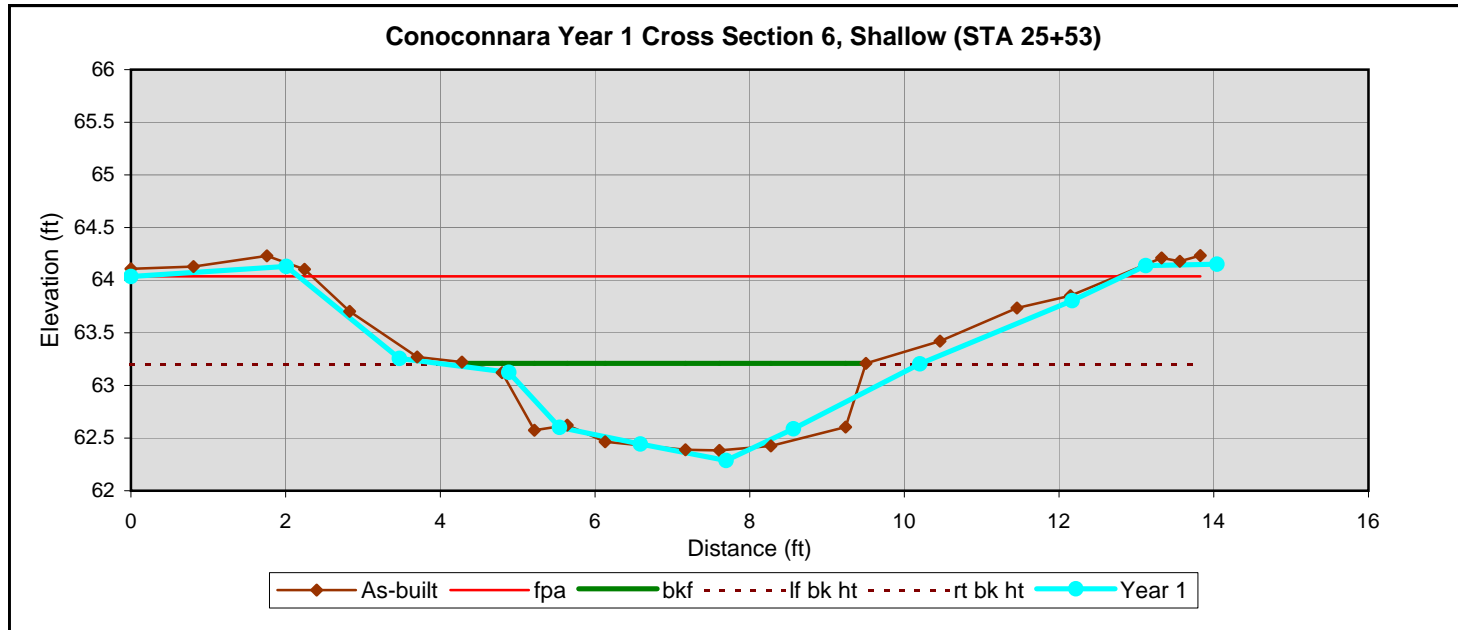




Left bank



Right bank

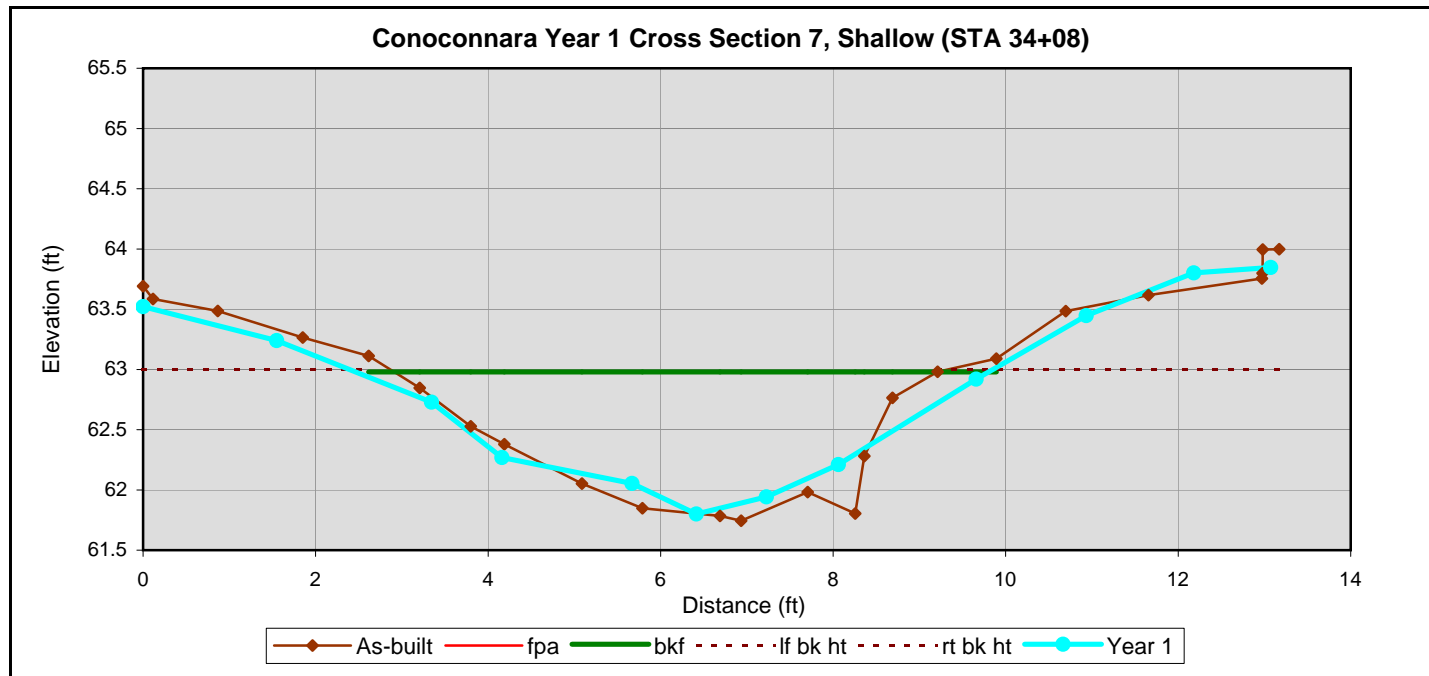




Left bank



Right bank

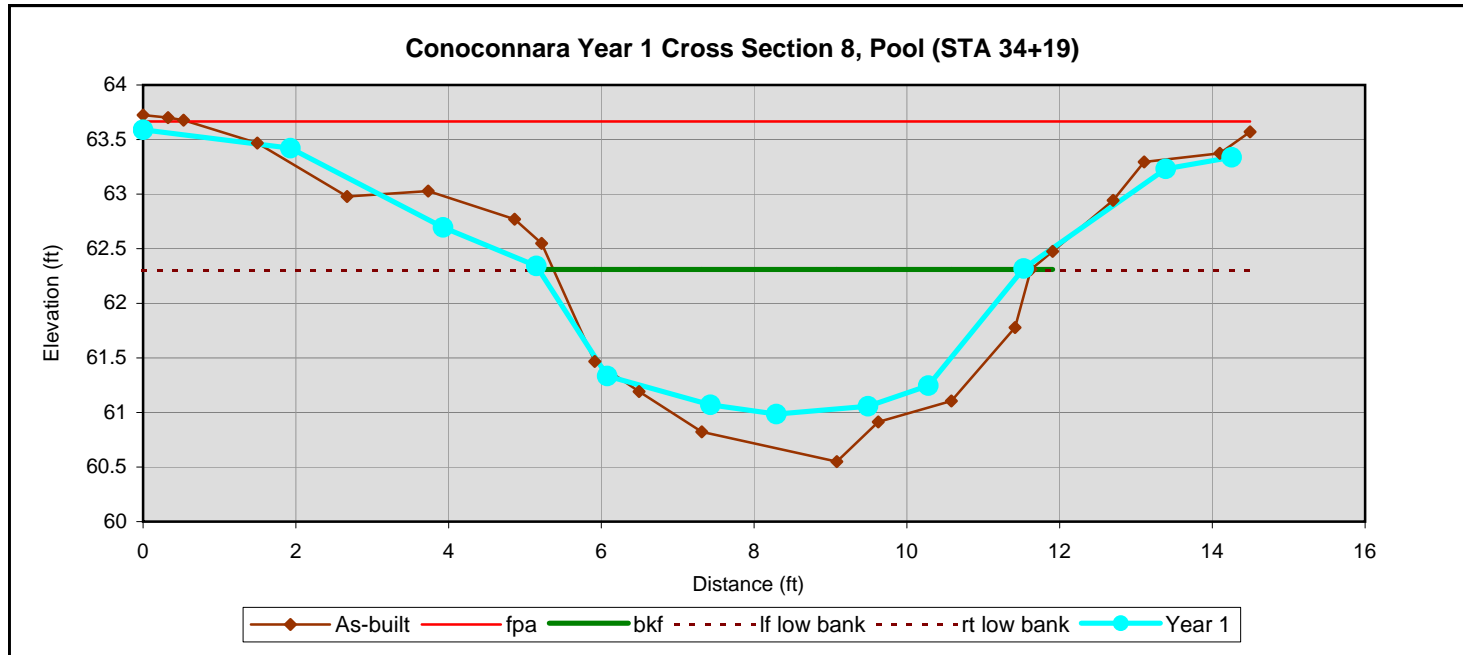




Left bank



Right bank



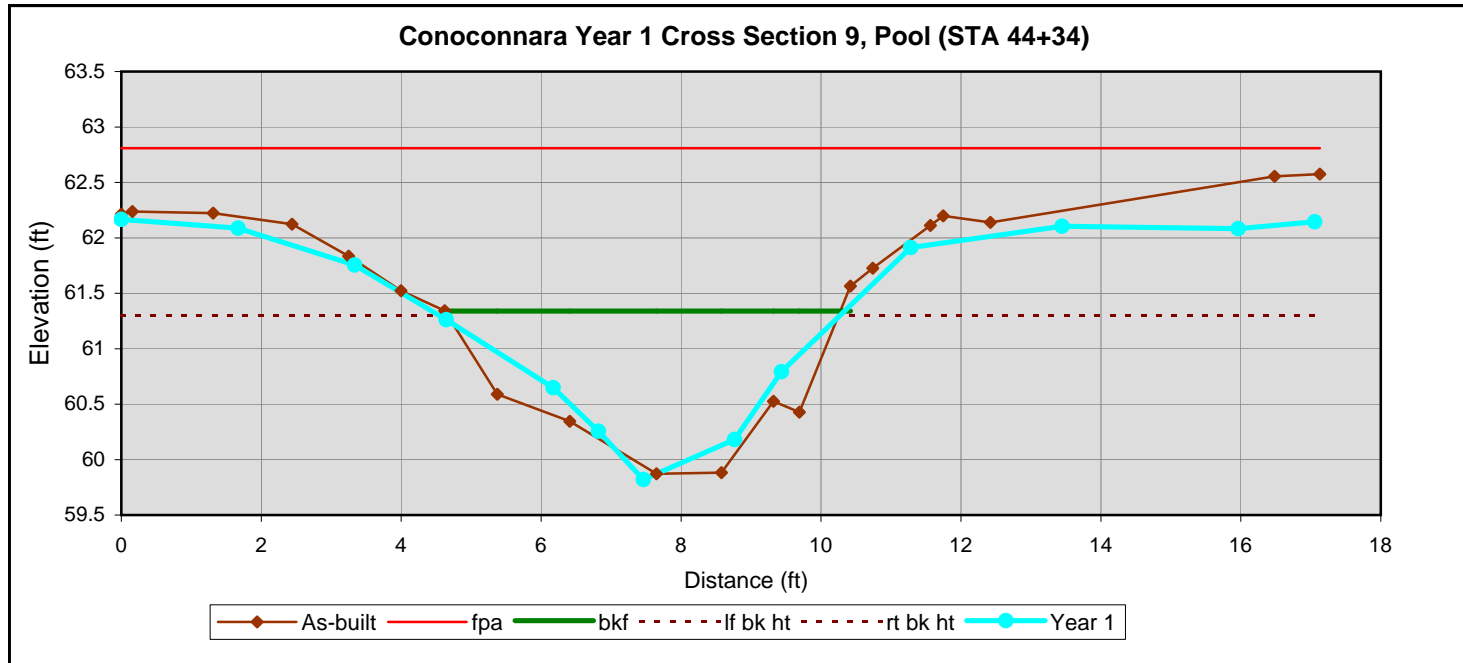




Left bank



Right bank

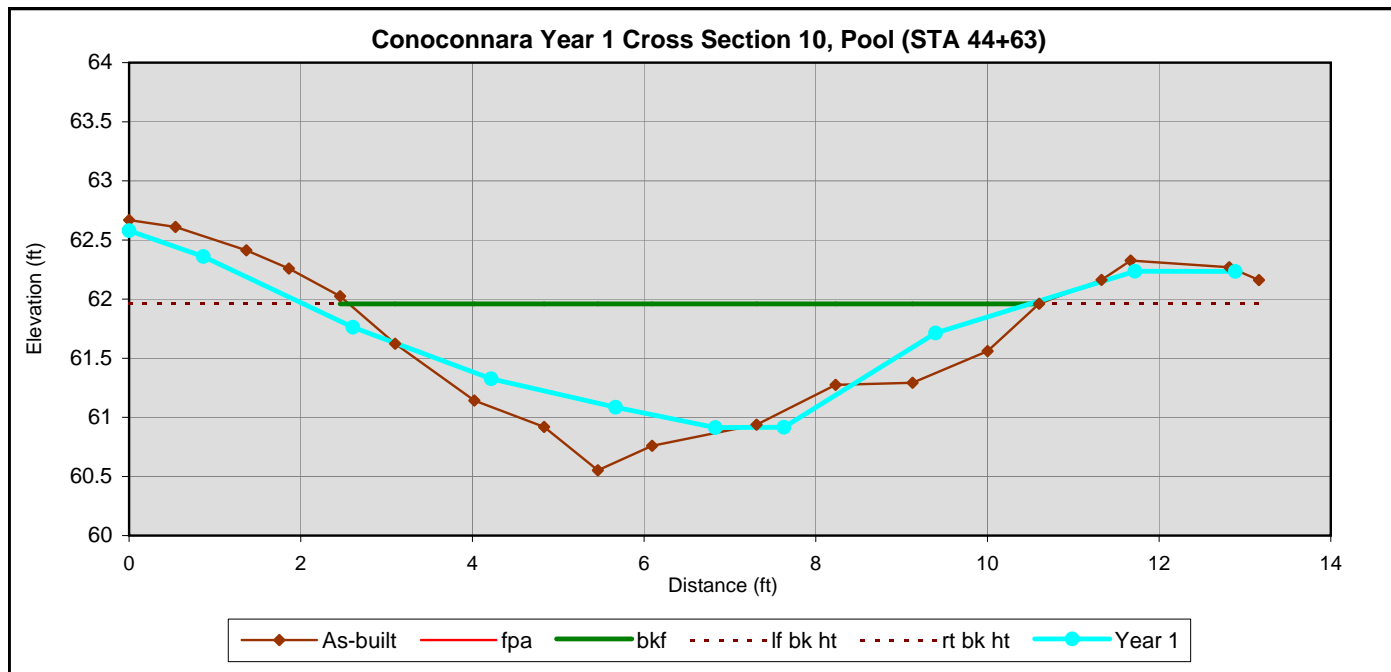




Left bank



Right bank





# **APPENDIX C**

## **2007 Gauge Data**

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
1-Jan-2007	08:00:00								
1-Jan-2007	20:00:00								
2-Jan-2007	08:00:00								
2-Jan-2007	20:00:00								
3-Jan-2007	08:00:00								
3-Jan-2007	20:00:00								
4-Jan-2007	08:00:00								
4-Jan-2007	20:00:00								
5-Jan-2007	08:00:00								
5-Jan-2007	20:00:00								
6-Jan-2007	08:00:00								
6-Jan-2007	20:00:00								
7-Jan-2007	08:00:00								
7-Jan-2007	20:00:00								
8-Jan-2007	08:00:00								
8-Jan-2007	20:00:00								
9-Jan-2007	08:00:00								
9-Jan-2007	20:00:00								
10-Jan-2007	08:00:00								
10-Jan-2007	20:00:00								
11-Jan-2007	08:00:00								
11-Jan-2007	20:00:00								
12-Jan-2007	08:00:00								
12-Jan-2007	20:00:00								
13-Jan-2007	08:00:00								
13-Jan-2007	20:00:00								
14-Jan-2007	08:00:00								
14-Jan-2007	20:00:00								
15-Jan-2007	08:00:00								
15-Jan-2007	20:00:00								
16-Jan-2007	08:00:00								
16-Jan-2007	20:00:00								
17-Jan-2007	08:00:00								
17-Jan-2007	20:00:00								
18-Jan-2007	08:00:00								
18-Jan-2007	20:00:00								
19-Jan-2007	08:00:00								
19-Jan-2007	20:00:00								
20-Jan-2007	08:00:00								
20-Jan-2007	20:00:00								
21-Jan-2007	08:00:00								
21-Jan-2007	20:00:00								
22-Jan-2007	08:00:00								
22-Jan-2007	20:00:00								
23-Jan-2007	08:00:00								
23-Jan-2007	20:00:00								
24-Jan-2007	08:00:00								
24-Jan-2007	20:00:00								
25-Jan-2007	08:00:00								
25-Jan-2007	20:00:00								

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
26-Jan-2007	08:00:00								
26-Jan-2007	20:00:00								
27-Jan-2007	08:00:00								
27-Jan-2007	20:00:00								
28-Jan-2007	08:00:00								
28-Jan-2007	20:00:00								
29-Jan-2007	08:00:00								
29-Jan-2007	20:00:00								
30-Jan-2007	08:00:00								
30-Jan-2007	20:00:00								
31-Jan-2007	08:00:00								
31-Jan-2007	20:00:00								
1-Feb-2007	08:00:00								
1-Feb-2007	20:00:00								
2-Feb-2007	08:00:00								
2-Feb-2007	20:00:00								
3-Feb-2007	08:00:00								
3-Feb-2007	20:00:00								
4-Feb-2007	08:00:00								
4-Feb-2007	20:00:00								
5-Feb-2007	08:00:00								
5-Feb-2007	20:00:00								
6-Feb-2007	08:00:00								
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17-Feb-2007	08:00:00								
17-Feb-2007	20:00:00								
18-Feb-2007	08:00:00								
18-Feb-2007	20:00:00								
19-Feb-2007	08:00:00								
19-Feb-2007	20:00:00								

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
20-Feb-2007	08:00:00								
20-Feb-2007	20:00:00								
21-Feb-2007	08:00:00								
21-Feb-2007	20:00:00								
22-Feb-2007	08:00:00								
22-Feb-2007	20:00:00								
23-Feb-2007	08:00:00								
23-Feb-2007	20:00:00								
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25-Feb-2007	08:00:00								
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26-Feb-2007	20:00:00								
27-Feb-2007	08:00:00								
27-Feb-2007	20:00:00								
28-Feb-2007	08:00:00								
28-Feb-2007	20:00:00								
1-Mar-2007	08:00:00								
1-Mar-2007	20:00:00								
2-Mar-2007	08:00:00								
2-Mar-2007	20:00:00								
3-Mar-2007	08:00:00								
3-Mar-2007	20:00:00								
4-Mar-2007	08:00:00								
4-Mar-2007	20:00:00								
5-Mar-2007	08:00:00								
5-Mar-2007	20:00:00								
6-Mar-2007	08:00:00								
6-Mar-2007	20:00:00	-47.40	-51.08	-51.06	-43.99	-32.60	-50.15	-48.35	-44.53
7-Mar-2007	08:00:00	-47.38	-51.07	-51.06	-43.99	-32.60	-50.12	-48.34	-44.53
7-Mar-2007	20:00:00	-27.76	-1.94	-9.42	-25.22	0.11	-11.51	-14.97	-17.17
8-Mar-2007	08:00:00	-28.75	-2.10	-10.28	-27.93	-1.56	-12.82	-16.98	-17.80
8-Mar-2007	20:00:00	-29.39	-2.94	-11.34	-30.25	-3.17	-13.92	-18.37	-18.37
9-Mar-2007	08:00:00	-30.04	-2.82	-12.73	-32.28	-4.60	-15.07	-19.74	-19.06
9-Mar-2007	20:00:00	-30.55	-3.39	-13.45	-34.18	-5.89	-15.90	-20.74	-19.62
10-Mar-2007	08:00:00	-30.99	-3.25	-14.07	-36.14	-6.47	-16.60	-21.61	-19.96
10-Mar-2007	20:00:00	-31.30	-4.57	-14.49	-37.51	-6.90	-17.14	-22.18	-20.15
11-Mar-2007	08:00:00	-31.57	-5.09	-14.96	-38.66	-6.84	-17.67	-22.68	-20.20
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12-Mar-2007	08:00:00	-32.27	-7.79	-15.86	-41.17	-7.73	-18.63	-23.69	-20.55
12-Mar-2007	20:00:00	-32.50	-8.60	-16.23	-42.21	-8.43	-19.12	-24.07	-20.72
13-Mar-2007	08:00:00	-32.70	-9.26	-16.62	-43.28	-8.83	-19.57	-24.46	-20.86
13-Mar-2007	20:00:00	-32.79	-9.74	-16.93	-44.01	-9.28	-20.71	-24.75	-20.92
14-Mar-2007	08:00:00	-32.90	-10.21	-17.26	-43.93	-9.52	-21.93	-25.02	-20.97
14-Mar-2007	20:00:00	-32.91	-10.54	-17.54	-43.93	-9.72	-22.72	-25.19	-20.94
15-Mar-2007	08:00:00	-32.94	-10.86	-17.83	-43.94	-9.69	-23.32	-25.36	-20.89
15-Mar-2007	20:00:00	-32.88	-11.13	-18.07	-43.93	-9.83	-23.84	-25.48	-20.85
16-Mar-2007	08:00:00	-32.89	-11.33	-18.36	-43.95	-9.92	-24.21	-25.60	-20.75
16-Mar-2007	20:00:00	-29.91	0.04	-5.24	-0.66	2.59	-21.12	-16.22	-2.60

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
17-Mar-2007	08:00:00	-25.62	-0.32	-5.36	-1.62	1.49	-20.26	-12.07	-2.88
17-Mar-2007	20:00:00	-24.83	-0.64	-5.67	-3.18	-1.62	-20.70	-10.10	-4.41
18-Mar-2007	08:00:00	-25.55	-1.08	-6.07	-7.20	-4.38	-21.47	-10.80	-6.10
18-Mar-2007	20:00:00	-26.53	-1.30	-6.20	-8.81	-6.35	-22.05	-11.17	-7.96
19-Mar-2007	08:00:00	-27.54	-1.71	-6.68	-14.83	-7.65	-22.61	-11.76	-10.78
19-Mar-2007	20:00:00	-28.24	-1.83	-6.94	-20.07	-8.10	-22.99	-12.08	-12.23
20-Mar-2007	08:00:00	-28.75	-2.07	-7.50	-23.91	-7.37	-23.25	-13.09	-13.27
20-Mar-2007	20:00:00	-29.26	-2.25	-8.52	-27.05	-6.85	-23.62	-14.61	-13.78
21-Mar-2007	08:00:00	-29.96	-2.75	-10.83	-30.06	-6.40	-24.30	-16.77	-14.55
21-Mar-2007	20:00:00	-30.56	-2.89	-12.25	-32.73	-6.50	-24.87	-18.30	-15.20
22-Mar-2007	08:00:00	-30.99	-3.00	-13.26	-35.44	-6.24	-25.10	-19.25	-15.60
22-Mar-2007	20:00:00	-31.21	-2.97	-13.69	-37.55	-5.81	-25.26	-19.66	-15.42
23-Mar-2007	08:00:00	-31.43	-3.16	-14.18	-39.20	-4.92	-25.33	-20.19	-15.39
23-Mar-2007	20:00:00	-31.55	-3.53	-14.47	-40.90	-4.24	-25.36	-20.44	-15.09
24-Mar-2007	08:00:00	-31.70	-4.57	-14.91	-42.48	-3.64	-25.40	-20.80	-14.90
24-Mar-2007	20:00:00	-31.84	-5.58	-15.19	-43.70	-3.77	-25.46	-21.01	-14.61
25-Mar-2007	08:00:00	-32.00	-6.53	-15.56	-43.97	-3.82	-25.52	-21.33	-14.74
25-Mar-2007	20:00:00	-32.27	-7.02	-15.93	-43.98	-5.21	-25.67	-21.76	-15.01
26-Mar-2007	08:00:00	-32.54	-8.03	-16.38	-43.98	-6.42	-25.87	-22.29	-15.54
26-Mar-2007	20:00:00	-32.55	-8.54	-16.67	-43.98	-7.56	-26.09	-22.62	-15.48
27-Mar-2007	08:00:00	-32.51	-8.98	-16.95	-43.97	-8.15	-26.29	-22.95	-15.68
27-Mar-2007	20:00:00	-32.41	-9.23	-17.18	-43.98	-8.76	-26.47	-23.20	-15.65
28-Mar-2007	08:00:00	-32.41	-9.60	-17.48	-43.98	-9.17	-26.63	-23.47	-15.83
28-Mar-2007	20:00:00	-32.45	-9.90	-17.77	-43.98	-9.82	-26.83	-23.82	-15.99
29-Mar-2007	08:00:00	-32.71	-10.33	-18.19	-43.99	-10.77	-27.06	-24.33	-16.36
29-Mar-2007	20:00:00	-32.88	-10.78	-18.54	-43.99	-11.74	-27.23	-24.79	-16.78
30-Mar-2007	08:00:00	-33.05	-11.30	-18.95	-43.97	-12.59	-27.44	-25.33	-17.37
30-Mar-2007	20:00:00	-33.05	-11.71	-19.21	-43.99	-13.31	-27.59	-25.73	-17.59
31-Mar-2007	08:00:00	-33.04	-12.05	-19.49	-44.00	-13.71	-27.76	-26.11	-17.89
31-Mar-2007	20:00:00	-33.00	-12.36	-19.74	-43.99	-14.14	-27.91	-26.42	-18.00
1-Apr-2007	08:00:00	-33.06	-12.65	-20.07	-43.99	-14.49	-28.10	-26.74	-18.18
1-Apr-2007	20:00:00	-33.03	-12.92	-20.32	-43.98	-14.72	-28.22	-26.96	-18.27
2-Apr-2007	08:00:00	-33.02	-13.15	-20.64	-43.99	-14.83	-28.38	-27.16	-18.42
2-Apr-2007	20:00:00	-32.98	-13.37	-21.00	-43.99	-14.91	-28.51	-27.33	-18.49
3-Apr-2007	08:00:00	-33.07	-13.62	-21.48	-44.00	-15.03	-28.67	-27.58	-18.79
3-Apr-2007	20:00:00	-33.04	-13.85	-21.86	-43.99	-15.19	-28.79	-27.76	-18.97
4-Apr-2007	08:00:00	-32.81	-14.03	-22.14	-44.00	-15.06	-28.83	-27.81	-19.12
4-Apr-2007	20:00:00	-32.46	-14.14	-22.36	-44.00	-14.86	-28.89	-27.88	-19.21
5-Apr-2007	08:00:00	-32.48	-14.38	-22.91	-44.01	-15.25	-29.07	-28.21	-19.61
5-Apr-2007	20:00:00	-32.51	-14.70	-23.40	-44.01	-15.72	-29.20	-28.56	-19.98
6-Apr-2007	08:00:00	-32.60	-15.04	-24.01	-44.00	-16.27	-29.38	-29.00	-20.46
6-Apr-2007	20:00:00	-32.51	-15.37	-24.37	-44.00	-16.77	-29.49	-29.31	-20.76
7-Apr-2007	08:00:00	-32.42	-15.68	-24.79	-44.00	-17.20	-29.65	-29.67	-21.12
7-Apr-2007	20:00:00	-32.58	-16.07	-25.41	-44.01	-17.83	-29.87	-30.20	-21.62
8-Apr-2007	08:00:00	-32.91	-16.54	-26.05	-44.02	-18.57	-30.15	-30.79	-22.27
8-Apr-2007	20:00:00	-33.12	-17.01	-26.44	-44.01	-19.28	-30.36	-31.26	-22.68
9-Apr-2007	08:00:00	-33.30	-17.47	-26.98	-44.03	-19.99	-30.65	-31.79	-23.20
9-Apr-2007	20:00:00	-33.43	-17.89	-27.35	-44.01	-20.60	-30.85	-32.18	-23.55
10-Apr-2007	08:00:00	-33.60	-18.31	-27.79	-44.02	-21.15	-31.15	-32.62	-23.99
10-Apr-2007	20:00:00	-33.72	-18.70	-28.11	-44.02	-21.64	-31.36	-32.97	-24.28

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
11-Apr-2007	08:00:00	-33.89	-19.05	-28.46	-44.02	-22.04	-31.62	-33.26	-24.56
11-Apr-2007	20:00:00	-33.92	-19.38	-28.71	-44.00	-22.26	-31.80	-33.46	-24.77
12-Apr-2007	08:00:00	-33.48	-18.96	-25.68	-43.99	-22.07	-28.33	-31.87	-13.87
12-Apr-2007	20:00:00	-33.36	-19.34	-26.02	-43.99	-21.91	-28.71	-31.75	-14.87
13-Apr-2007	08:00:00	-33.66	-19.75	-26.59	-44.00	-22.48	-29.17	-32.24	-16.14
13-Apr-2007	20:00:00	-33.92	-20.08	-27.07	-43.99	-22.81	-29.50	-32.69	-17.07
14-Apr-2007	08:00:00	-34.09	-20.35	-27.56	-44.01	-23.10	-29.80	-33.14	-17.99
14-Apr-2007	20:00:00	-34.13	-20.62	-27.90	-43.99	-22.95	-29.96	-33.41	-18.56
15-Apr-2007	08:00:00	-33.84	-4.86	-6.87	-16.45	-22.27	-29.26	-33.41	-5.79
15-Apr-2007	20:00:00	-32.60	0.07	-4.98	-1.99	-11.40	-2.79	-8.30	-0.81
16-Apr-2007	08:00:00	-29.26	-0.27	-5.32	-5.61	1.03	-3.33	-7.24	-2.26
16-Apr-2007	20:00:00	-28.71	-0.93	-5.92	-6.89	-3.88	-5.26	-8.86	-3.18
17-Apr-2007	08:00:00	-28.94	-1.25	-6.20	-8.65	-7.36	-7.72	-9.14	-3.27
17-Apr-2007	20:00:00	-29.27	-1.77	-8.21	-8.94	-9.29	-10.22	-11.27	-4.83
18-Apr-2007	08:00:00	-29.70	-2.09	-9.38	-12.50	-10.47	-12.29	-13.97	-4.02
18-Apr-2007	20:00:00	-30.07	-2.68	-13.41	-15.96	-11.18	-14.04	-16.08	-5.71
19-Apr-2007	08:00:00	-30.37	-3.25	-15.00	-19.31	-11.87	-15.86	-18.11	-6.05
19-Apr-2007	20:00:00	-30.70	-5.83	-15.90	-21.90	-12.56	-17.45	-19.50	-7.64
20-Apr-2007	08:00:00	-31.13	-8.42	-16.72	-24.33	-13.40	-19.19	-20.93	-8.55
20-Apr-2007	20:00:00	-31.52	-8.93	-17.31	-26.34	-13.98	-20.88	-22.07	-9.13
21-Apr-2007	08:00:00	-31.91	-9.90	-17.94	-28.28	-14.39	-22.40	-23.24	-10.09
21-Apr-2007	20:00:00	-32.26	-10.49	-18.44	-30.03	-14.64	-23.68	-24.11	-10.89
22-Apr-2007	08:00:00	-32.57	-11.15	-18.98	-31.53	-14.54	-24.53	-24.91	-12.20
22-Apr-2007	20:00:00	-32.85	-11.66	-19.46	-32.86	-14.60	-25.77	-25.57	-12.80
23-Apr-2007	08:00:00	-33.09	-12.19	-19.96	-34.47	-14.37	-26.71	-26.13	-13.61
23-Apr-2007	20:00:00	-33.23	-12.59	-20.37	-35.86	-14.02	-27.20	-26.51	-13.92
24-Apr-2007	08:00:00	-33.31	-12.94	-20.82	-36.99	-13.68	-27.47	-26.83	-14.38
24-Apr-2007	20:00:00	-33.36	-13.20	-21.30	-37.92	-13.43	-27.59	-27.09	-14.53
25-Apr-2007	08:00:00	-33.42	-13.50	-21.83	-38.79	-13.32	-27.63	-27.37	-14.81
25-Apr-2007	20:00:00	-33.41	-13.71	-22.26	-39.60	-13.12	-27.63	-27.58	-14.70
26-Apr-2007	08:00:00	-33.49	-14.01	-22.82	-40.54	-13.21	-27.78	-27.88	-15.02
26-Apr-2007	20:00:00	-33.52	-14.27	-23.27	-41.36	-13.47	-27.91	-28.12	-15.15
27-Apr-2007	08:00:00	-33.49	-14.53	-23.72	-42.05	-13.51	-28.01	-28.36	-15.38
27-Apr-2007	20:00:00	-33.39	-14.65	-23.84	-42.75	-13.60	-28.05	-28.52	-14.32
28-Apr-2007	08:00:00	-33.37	-14.94	-24.25	-43.49	-13.94	-28.18	-28.78	-14.64
28-Apr-2007	20:00:00	-33.39	-15.21	-24.65	-43.90	-14.52	-28.25	-29.10	-14.88
29-Apr-2007	08:00:00	-33.48	-15.53	-25.15	-44.09	-15.13	-28.38	-29.48	-15.46
29-Apr-2007	20:00:00	-33.54	-15.86	-25.56	-44.07	-15.85	-28.51	-29.84	-15.79
30-Apr-2007	08:00:00	-33.61	-16.20	-26.02	-44.08	-16.53	-28.69	-30.21	-16.36
30-Apr-2007	20:00:00	-33.61	-16.49	-26.27	-44.06	-17.06	-28.82	-30.48	-16.60
1-May-2007	08:00:00	-33.68	-16.80	-26.63	-44.06	-17.57	-29.01	-30.82	-17.06
1-May-2007	20:00:00	-33.69	-17.07	-26.86	-44.06	-18.01	-29.09	-31.08	-17.24
2-May-2007	08:00:00	-33.72	-17.34	-27.18	-44.06	-18.29	-29.23	-31.33	-17.60
2-May-2007	20:00:00	-33.68	-17.54	-27.45	-44.06	-18.59	-29.33	-31.51	-17.77
3-May-2007	08:00:00	-33.81	-17.87	-27.85	-44.07	-19.02	-29.54	-31.91	-18.25
3-May-2007	20:00:00	-33.95	-18.23	-28.24	-44.07	-19.58	-29.70	-32.28	-18.78
4-May-2007	08:00:00	-34.03	-18.64	-28.64	-44.09	-20.12	-29.88	-31.71	-18.94
4-May-2007	20:00:00	-34.10	-18.86	-28.95	-44.07	-20.43	-30.04	-29.51	-18.78
5-May-2007	08:00:00	-34.15	-19.22	-29.22	-44.08	-20.93	-30.24	-30.21	-19.47
5-May-2007	20:00:00	-34.18	-19.57	-29.51	-44.09	-21.50	-30.40	-30.87	-19.90



Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
6-May-2007	08:00:00	-34.25	-19.65	-28.57	-44.09	-21.94	-30.63	-28.08	-19.11
6-May-2007	20:00:00	-34.45	-20.03	-29.03	-44.10	-22.73	-30.91	-29.10	-19.87
7-May-2007	08:00:00	-34.59	-20.41	-29.44	-44.09	-23.37	-31.13	-29.99	-20.50
7-May-2007	20:00:00	-34.69	-20.79	-29.78	-44.10	-23.81	-31.37	-30.80	-20.90
8-May-2007	08:00:00	-34.79	-21.09	-30.05	-44.09	-24.07	-31.56	-31.39	-21.27
8-May-2007	20:00:00	-34.83	-21.40	-30.31	-44.07	-24.31	-31.77	-31.90	-21.62
9-May-2007	08:00:00	-34.91	-21.58	-30.53	-44.07	-24.54	-32.01	-32.12	-21.89
9-May-2007	20:00:00	-34.95	-1.97	-8.18	-44.09	-24.48	-32.11	-27.85	-6.88
10-May-2007	08:00:00	-28.50	-2.06	-9.89	-44.07	-24.03	-32.25	-22.04	-8.85
10-May-2007	20:00:00	-28.42	-2.64	-13.05	-44.08	-23.85	-32.38	-20.50	-10.35
11-May-2007	08:00:00	-28.55	-3.05	-14.50	-44.09	-23.76	-32.54	-22.02	-11.73
11-May-2007	20:00:00	-28.65	-7.75	-15.25	-44.08	-23.56	-32.66	-23.07	-12.44
12-May-2007	08:00:00	-28.80	-9.14	-16.03	-44.09	-23.56	-32.80	-24.10	-13.41
12-May-2007	20:00:00	-28.91	-9.54	-16.64	-44.07	-23.47	-32.92	-24.92	-14.12
13-May-2007	08:00:00	-29.06	-10.26	-17.31	-44.07	-23.62	-33.08	-25.76	-14.84
13-May-2007	20:00:00	-29.34	-11.03	-18.01	-44.06	-24.16	-33.31	-26.67	-15.65
14-May-2007	08:00:00	-29.68	-11.91	-18.76	-44.07	-24.60	-33.56	-27.56	-16.66
14-May-2007	20:00:00	-29.96	-12.63	-19.38	-44.06	-24.86	-33.75	-28.31	-17.30
15-May-2007	08:00:00	-30.15	-13.30	-19.98	-44.07	-25.01	-33.94	-28.91	-17.99
15-May-2007	20:00:00	-30.19	-13.74	-20.46	-44.06	-24.91	-33.99	-29.34	-18.29
16-May-2007	08:00:00	-30.25	-14.18	-21.07	-44.07	-24.81	-34.13	-29.69	-18.68
16-May-2007	20:00:00	-30.20	-14.48	-21.66	-44.07	-24.50	-34.15	-29.97	-18.85
17-May-2007	08:00:00	-30.30	-10.65	-6.19	-44.07	-24.22	-34.30	-25.90	-5.04
17-May-2007	20:00:00	-30.42	-9.82	-6.56	-44.07	-24.07	-34.32	-19.96	-7.68
18-May-2007	08:00:00	-30.49	-9.23	-6.93	-44.07	-24.08	-34.31	-15.71	-9.95
18-May-2007	20:00:00	-30.60	-8.89	-7.74	-44.07	-24.31	-34.36	-15.02	-11.71
19-May-2007	08:00:00	-30.76	-8.73	-8.90	-44.08	-24.64	-34.47	-15.23	-13.42
19-May-2007	20:00:00	-30.85	-8.54	-13.05	-44.07	-24.83	-34.52	-16.73	-14.33
20-May-2007	08:00:00	-30.93	-8.33	-14.57	-44.07	-24.95	-34.60	-18.57	-15.13
20-May-2007	20:00:00	-30.97	-9.15	-15.29	-44.07	-24.97	-34.67	-19.82	-15.50
21-May-2007	08:00:00	-31.09	-9.85	-16.13	-44.07	-25.06	-34.80	-21.13	-16.07
21-May-2007	20:00:00	-31.23	-10.29	-16.73	-44.07	-25.21	-34.94	-22.18	-16.36
22-May-2007	08:00:00	-31.45	-10.96	-17.50	-44.07	-25.36	-35.12	-23.27	-16.93
22-May-2007	20:00:00	-31.65	-11.39	-18.11	-44.07	-25.44	-35.23	-24.15	-17.22
23-May-2007	08:00:00	-31.85	-11.99	-18.82	-44.08	-25.53	-35.40	-25.01	-17.77
23-May-2007	20:00:00	-32.02	-12.46	-19.40	-44.08	-25.60	-35.49	-25.71	-18.06
24-May-2007	08:00:00	-32.20	-13.00	-20.02	-44.09	-25.65	-35.64	-26.41	-18.58
24-May-2007	20:00:00	-32.33	-13.41	-20.61	-44.08	-25.52	-35.59	-26.92	-18.83
25-May-2007	08:00:00	-32.41	-13.86	-21.28	-44.07	-25.41	-35.66	-27.34	-19.21
25-May-2007	20:00:00	-32.42	-14.18	-21.92	-44.09	-25.18	-35.63	-27.68	-19.41
26-May-2007	08:00:00	-32.47	-14.50	-22.64	-44.08	-25.08	-35.70	-28.03	-19.69
26-May-2007	20:00:00	-32.46	-14.78	-23.22	-44.08	-24.95	-35.68	-28.29	-19.87
27-May-2007	08:00:00	-32.52	-15.10	-23.88	-44.08	-25.00	-35.76	-28.61	-20.18
27-May-2007	20:00:00	-32.54	-15.40	-24.38	-44.08	-24.97	-35.76	-28.90	-20.40
28-May-2007	08:00:00	-32.60	-15.70	-24.98	-44.10	-25.09	-35.84	-29.22	-20.75
28-May-2007	20:00:00	-32.62	-16.00	-25.42	-44.10	-25.12	-35.85	-29.48	-21.00
29-May-2007	08:00:00	-32.65	-16.31	-25.89	-44.10	-25.24	-35.91	-29.78	-21.33
29-May-2007	20:00:00	-32.66	-16.58	-26.26	-44.09	-25.34	-35.95	-30.08	-21.56
30-May-2007	08:00:00	-32.72	-16.91	-26.66	-44.10	-25.54	-36.02	-30.37	-21.90
30-May-2007	20:00:00	-32.73	-17.18	-27.00	-44.09	-25.65	-36.04	-30.66	-22.16

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
31-May-2007	08:00:00	-32.76	-17.51	-27.42	-44.11	-25.73	-36.11	-30.95	-22.51
31-May-2007	20:00:00	-32.73	-17.78	-27.74	-44.10	-25.78	-36.12	-31.24	-22.76
1-Jun-2007	08:00:00	-32.76	-18.06	-28.09	-44.09	-25.89	-36.18	-31.56	-23.09
1-Jun-2007	20:00:00	-32.68	-18.30	-28.35	-44.10	-25.95	-36.20	-31.84	-23.34
2-Jun-2007	08:00:00	-32.67	-18.57	-28.67	-44.10	-26.08	-36.23	-32.14	-23.63
2-Jun-2007	20:00:00	-32.58	-18.81	-28.88	-44.11	-26.12	-36.23	-32.39	-23.89
3-Jun-2007	08:00:00	-32.28	-10.34	-6.63	-40.88	-25.21	-36.09	-28.06	-3.37
3-Jun-2007	20:00:00	-31.89	-0.55	-7.46	-6.42	-13.17	-2.13	-20.00	-1.83
4-Jun-2007	08:00:00	-31.74	-0.68	-8.39	-8.48	-2.76	-2.76	-16.24	-2.74
4-Jun-2007	20:00:00	-31.61	-1.13	-9.79	-10.84	-8.97	-3.67	-14.58	-3.50
5-Jun-2007	08:00:00	-31.57	-0.49	-10.16	-14.41	-11.02	-3.50	-14.07	-3.25
5-Jun-2007	20:00:00	-31.54	-1.02	-10.90	-17.76	-11.94	-5.43	-14.62	-7.35
6-Jun-2007	08:00:00	-31.57	-0.44	-11.49	-19.99	3.48	-2.06	-15.39	-2.71
6-Jun-2007	20:00:00	-31.67	-0.97	-11.77	-21.85	-3.36	-3.36	-16.16	-4.09
7-Jun-2007	08:00:00	-31.79	-1.37	-12.31	-23.98	-6.19	-3.64	-17.34	-4.36
7-Jun-2007	20:00:00	-31.81	-1.80	-10.66	-25.78	-7.16	-6.11	-17.94	-5.92
8-Jun-2007	08:00:00	-31.86	-2.32	-11.36	-28.34	-7.68	-5.57	-19.39	-4.91
8-Jun-2007	20:00:00	-31.80	-2.77	-12.85	-30.30	-7.71	-8.86	-20.16	-7.21
9-Jun-2007	08:00:00	-31.73	-3.72	-14.08	-31.94	-7.61	-10.16	-21.01	-6.94
9-Jun-2007	20:00:00	-31.67	-5.99	-15.07	-33.42	-7.90	-12.03	-21.81	-9.65
10-Jun-2007	08:00:00	-31.66	-7.50	-15.79	-35.36	-8.37	-14.08	-22.79	-10.73
10-Jun-2007	20:00:00	-31.67	-8.41	-16.32	-36.90	-9.22	-15.75	-23.73	-11.87
11-Jun-2007	08:00:00	-31.74	-9.21	-16.97	-38.31	-10.16	-17.71	-24.69	-12.83
11-Jun-2007	20:00:00	-31.75	-9.67	-17.41	-39.43	-11.00	-19.30	-25.47	-13.44
12-Jun-2007	08:00:00	-31.77	-10.20	-17.93	-40.68	-11.60	-20.81	-26.16	-14.10
12-Jun-2007	20:00:00	-31.75	-10.51	-18.33	-41.68	-12.08	-21.83	-26.69	-14.37
13-Jun-2007	08:00:00	-31.78	-10.94	-18.80	-42.77	-12.55	-22.85	-27.20	-14.82
13-Jun-2007	20:00:00	-31.76	-11.32	-19.21	-43.70	-12.97	-23.73	-27.69	-15.05
14-Jun-2007	08:00:00	-31.82	-11.85	-19.69	-44.29	-13.52	-25.07	-28.26	-15.56
14-Jun-2007	20:00:00	-31.86	-12.41	-20.18	-44.11	-14.13	-26.13	-28.87	-16.01
15-Jun-2007	08:00:00	-31.95	-13.03	-20.83	-44.10	-14.94	-27.13	-29.59	-16.65
15-Jun-2007	20:00:00	-32.04	-13.56	-21.57	-44.11	-15.76	-27.97	-30.21	-17.10
16-Jun-2007	08:00:00	-32.13	-14.12	-22.39	-44.13	-16.44	-28.57	-30.75	-17.67
16-Jun-2007	20:00:00	-32.20	-14.59	-23.15	-44.12	-16.96	-28.69	-31.24	-18.00
17-Jun-2007	08:00:00	-32.29	-15.04	-23.89	-44.11	-17.38	-28.81	-31.68	-18.39
17-Jun-2007	20:00:00	-32.37	-15.42	-24.47	-44.12	-17.68	-28.87	-32.06	-18.57
18-Jun-2007	08:00:00	-32.46	-15.75	-25.05	-44.12	-17.88	-28.97	-32.36	-18.87
18-Jun-2007	20:00:00	-32.51	-16.06	-25.50	-44.12	-18.02	-29.06	-32.62	-18.95
19-Jun-2007	08:00:00	-32.58	-16.30	-25.91	-44.12	-18.08	-29.15	-32.83	-19.11
19-Jun-2007	20:00:00	-32.57	-16.50	-26.15	-44.11	-17.92	-29.19	-32.91	-19.10
20-Jun-2007	08:00:00	-32.56	-16.69	-26.43	-44.11	-17.74	-29.23	-32.99	-19.22
20-Jun-2007	20:00:00	-32.60	-17.01	-26.76	-44.12	-17.88	-29.34	-33.23	-19.49
21-Jun-2007	08:00:00	-32.68	-17.41	-27.22	-44.12	-18.23	-29.47	-33.60	-19.89
21-Jun-2007	20:00:00	-32.73	-17.74	-27.55	-44.12	-18.55	-29.60	-33.90	-20.14
22-Jun-2007	08:00:00	-32.75	-18.02	-27.87	-44.13	-18.80	-29.70	-34.15	-20.41
22-Jun-2007	20:00:00	-32.73	-18.31	-28.13	-44.12	-19.05	-29.82	-34.38	-20.62
23-Jun-2007	08:00:00	-32.78	-18.61	-28.48	-44.11	-19.37	-29.98	-34.66	-20.94
23-Jun-2007	20:00:00	-32.84	-18.92	-28.74	-44.11	-19.72	-30.10	-34.89	-21.22
24-Jun-2007	08:00:00	-32.90	-19.26	-29.14	-44.11	-20.13	-30.29	-35.22	-21.58
24-Jun-2007	20:00:00	-32.99	-19.62	-29.47	-44.12	-20.58	-30.48	-35.53	-21.92

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
25-Jun-2007	08:00:00	-33.11	-20.00	-29.84	-44.10	-21.08	-30.72	-35.86	-22.28
25-Jun-2007	20:00:00	-33.19	-20.34	-30.12	-44.13	-21.49	-30.89	-36.14	-22.58
26-Jun-2007	08:00:00	-33.32	-20.69	-30.45	-44.11	-21.93	-31.14	-36.47	-22.93
26-Jun-2007	20:00:00	-33.39	-21.02	-30.68	-44.12	-22.24	-31.34	-36.68	-23.22
27-Jun-2007	08:00:00	-33.46	-21.30	-30.92	-44.12	-22.58	-31.54	-36.92	-23.52
27-Jun-2007	20:00:00	-33.47	-21.56	-31.13	-44.12	-22.77	-31.70	-37.07	-23.78
28-Jun-2007	08:00:00	-33.51	-21.79	-31.36	-44.12	-22.93	-31.88	-37.27	-24.08
28-Jun-2007	20:00:00	-33.50	-22.03	-31.53	-44.12	-23.06	-32.00	-37.45	-24.33
29-Jun-2007	08:00:00	-33.54	-22.26	-31.78	-44.10	-23.35	-32.21	-37.66	-24.66
29-Jun-2007	20:00:00	-33.56	-22.49	-31.98	-44.12	-23.61	-32.40	-37.94	-24.91
30-Jun-2007	08:00:00	-33.58	-22.69	-32.18	-44.10	-23.86	-32.60	-38.24	-25.18
30-Jun-2007	20:00:00	-33.61	-22.92	-32.37	-44.12	-24.04	-32.75	-38.52	-25.43
1-Jul-2007	08:00:00	-33.65	-23.14	-32.61	-44.12	-24.34	-32.98	-38.88	-25.70
1-Jul-2007	20:00:00	-33.73	-23.39	-32.86	-44.12	-24.70	-33.23	-39.31	-26.00
2-Jul-2007	08:00:00	-33.84	-23.66	-33.16	-44.12	-25.07	-33.52	-39.68	-26.34
2-Jul-2007	20:00:00	-33.93	-23.92	-33.38	-44.11	-25.41	-33.78	-39.95	-26.60
3-Jul-2007	08:00:00	-34.04	-24.20	-33.65	-44.12	-25.77	-34.06	-40.27	-26.91
3-Jul-2007	20:00:00	-34.12	-24.45	-33.84	-44.12	-26.07	-34.27	-40.50	-27.15
4-Jul-2007	08:00:00	-34.19	-24.71	-34.08	-44.12	-26.38	-34.53	-40.75	-27.40
4-Jul-2007	20:00:00	-34.25	-24.94	-34.29	-44.12	-26.64	-34.71	-40.93	-27.60
5-Jul-2007	08:00:00	-34.30	-25.15	-34.50	-44.12	-26.88	-34.95	-41.12	-27.80
5-Jul-2007	20:00:00	-34.32	-25.37	-34.67	-44.11	-27.08	-35.07	-41.25	-27.98
6-Jul-2007	08:00:00	-34.36	-25.56	-34.87	-44.12	-27.28	-35.26	-41.42	-28.17
6-Jul-2007	20:00:00	-34.38	-25.74	-35.11	-44.12	-27.48	-35.41	-41.62	-28.34
7-Jul-2007	08:00:00	-34.43	-25.91	-35.31	-44.12	-27.69	-35.61	-41.80	-28.52
7-Jul-2007	20:00:00	-34.46	-26.09	-35.51	-44.13	-27.81	-35.76	-41.93	-28.69
8-Jul-2007	08:00:00	-34.50	-26.26	-35.74	-44.12	-27.99	-35.78	-42.11	-28.86
8-Jul-2007	20:00:00	-34.54	-26.45	-35.96	-44.12	-28.20	-35.90	-42.25	-29.03
9-Jul-2007	08:00:00	-34.58	-26.62	-36.18	-44.14	-28.47	-36.09	-42.45	-29.21
9-Jul-2007	20:00:00	-34.66	-26.80	-36.40	-44.13	-28.70	-36.18	-42.61	-29.39
10-Jul-2007	08:00:00	-34.73	-26.97	-36.60	-44.14	-28.89	-36.35	-42.79	-29.56
10-Jul-2007	20:00:00	-5.26	-2.43	-13.03	-8.81	-27.71	-31.68	-42.83	-4.58
11-Jul-2007	08:00:00	-10.39	-2.11	-10.49	-18.84	-26.45	-31.84	-24.24	-5.84
11-Jul-2007	20:00:00	-11.86	-2.29	-14.57	-1.12	-8.17	-23.73	-21.79	-3.90
12-Jul-2007	08:00:00	-12.56	-2.26	-11.77	-5.43	-8.07	-3.44	-8.55	-2.79
12-Jul-2007	20:00:00	-13.75	-2.69	-9.00	-11.60	-11.03	-6.34	-12.18	-4.02
13-Jul-2007	08:00:00	-14.91	-3.49	-9.23	-17.63	-13.74	-6.76	-14.80	-3.93
13-Jul-2007	20:00:00	-15.97	-4.01	-11.60	-21.94	-15.40	-8.73	-16.78	-4.25
14-Jul-2007	08:00:00	-16.95	-4.71	-13.64	-25.12	-16.92	-10.69	-18.39	-4.35
14-Jul-2007	20:00:00	-17.81	-5.40	-14.67	-27.63	-18.00	-12.76	-19.60	-8.30
15-Jul-2007	08:00:00	-18.60	-7.40	-15.81	-29.71	-18.83	-14.97	-21.01	-7.00
15-Jul-2007	20:00:00	-19.32	-10.12	-16.63	-31.53	-19.58	-17.36	-22.18	-11.33
16-Jul-2007	08:00:00	-20.00	-10.91	-17.49	-33.09	-20.31	-19.74	-23.36	-12.93
16-Jul-2007	20:00:00	-20.62	-11.73	-18.19	-35.32	-20.89	-21.54	-24.29	-15.00
17-Jul-2007	08:00:00	-21.23	-12.59	-18.94	-37.14	-21.45	-22.92	-25.18	-16.15
17-Jul-2007	20:00:00	-21.79	-11.20	-18.27	-38.68	-21.89	-24.40	-25.90	-13.67
18-Jul-2007	08:00:00	-21.78	-6.86	-9.19	-37.43	-15.03	-3.21	-11.90	-2.78
18-Jul-2007	20:00:00	-21.68	-6.36	-7.20	-32.66	-11.68	-3.82	-9.15	-3.86
19-Jul-2007	08:00:00	-22.14	-6.59	-7.34	-32.28	-10.84	-4.22	-7.47	-3.44
19-Jul-2007	20:00:00	-22.40	-7.03	-9.54	-32.77	-10.77	-7.76	-10.94	-6.88

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
20-Jul-2007	08:00:00	-22.66	-7.13	-11.86	-34.70	-11.92	-9.47	-14.19	-5.15
20-Jul-2007	20:00:00	-22.98	-8.57	-13.46	-36.60	-12.78	-12.64	-16.16	-7.51
21-Jul-2007	08:00:00	-23.35	-9.71	-14.81	-38.32	-13.69	-16.46	-18.10	-7.35
21-Jul-2007	20:00:00	-23.65	-10.59	-15.70	-39.79	-14.58	-19.41	-19.60	-10.07
22-Jul-2007	08:00:00	-23.98	-11.54	-16.69	-41.28	-15.36	-21.88	-21.24	-11.77
22-Jul-2007	20:00:00	-24.47	-12.37	-17.51	-42.64	-16.07	-23.72	-22.51	-13.23
23-Jul-2007	08:00:00	-24.85	-13.16	-18.33	-43.82	-16.68	-25.13	-23.69	-14.36
23-Jul-2007	20:00:00	-25.19	-13.88	-19.01	-44.37	-17.21	-26.15	-24.59	-15.16
24-Jul-2007	08:00:00	-25.50	-14.59	-19.76	-44.25	-17.75	-27.03	-25.51	-16.03
24-Jul-2007	20:00:00	-25.79	-15.19	-20.40	-44.23	-18.13	-27.49	-26.21	-16.62
25-Jul-2007	08:00:00	-26.05	-15.77	-21.25	-44.21	-18.52	-27.92	-26.88	-17.37
25-Jul-2007	20:00:00	-26.30	-16.32	-22.18	-44.21	-18.85	-28.18	-27.43	-17.71
26-Jul-2007	08:00:00	-26.54	-16.80	-23.16	-44.21	-19.15	-28.33	-27.98	-18.28
26-Jul-2007	20:00:00	-26.72	-17.31	-23.95	-44.14	-19.29	-28.39	-28.42	-18.50
27-Jul-2007	08:00:00	-26.88	-17.66	-24.68	-44.13	-19.38	-28.49	-28.83	-18.89
27-Jul-2007	20:00:00	-27.00	-13.11	-18.82	-44.14	-19.26	-28.62	-29.12	-18.61
28-Jul-2007	08:00:00	-27.14	-10.34	-17.99	-44.14	-18.99	-28.45	-29.07	-18.99
28-Jul-2007	20:00:00	-27.26	-9.52	-17.68	-44.14	-18.81	-28.61	-29.18	-19.13
29-Jul-2007	08:00:00	-27.39	-9.61	-18.62	-44.13	-18.82	-28.87	-29.48	-19.42
29-Jul-2007	20:00:00	-27.57	-11.64	-19.36	-44.14	-18.98	-29.22	-29.82	-19.55
30-Jul-2007	08:00:00	-27.76	-11.68	-20.07	-44.14	-19.33	-29.37	-30.14	-19.81
30-Jul-2007	20:00:00	-27.96	-11.44	-20.88	-44.15	-19.58	-29.55	-30.49	-20.03
31-Jul-2007	08:00:00	-28.17	-11.02	-21.92	-44.15	-19.89	-29.73	-30.87	-20.32
31-Jul-2007	20:00:00	-28.33	-11.15	-22.94	-44.14	-20.19	-29.93	-31.23	-20.45
1-Aug-2007	08:00:00	-28.53	-11.88	-23.96	-44.14	-20.56	-30.13	-31.61	-20.71
1-Aug-2007	20:00:00	-28.71	-12.48	-24.85	-44.14	-20.91	-30.32	-31.98	-20.83
2-Aug-2007	08:00:00	-28.96	-13.17	-25.77	-44.15	-21.32	-30.54	-32.34	-21.11
2-Aug-2007	20:00:00	-29.15	-13.76	-26.39	-44.13	-21.60	-30.73	-32.63	-21.23
3-Aug-2007	08:00:00	-29.31	-14.38	-26.97	-44.14	-21.85	-30.93	-32.86	-21.46
3-Aug-2007	20:00:00	-29.47	-14.88	-27.46	-44.13	-21.98	-31.08	-33.09	-21.56
4-Aug-2007	08:00:00	-29.62	-15.38	-27.98	-44.14	-22.12	-31.24	-33.26	-21.75
4-Aug-2007	20:00:00	-29.72	-15.84	-28.35	-44.15	-22.13	-31.37	-33.44	-21.84
5-Aug-2007	08:00:00	-29.84	-16.26	-28.74	-44.14	-22.27	-31.53	-33.59	-22.00
5-Aug-2007	20:00:00	-29.94	-16.69	-29.04	-44.14	-22.29	-31.65	-33.75	-22.11
6-Aug-2007	08:00:00	-30.04	-17.10	-29.36	-44.14	-22.42	-31.81	-33.89	-22.25
6-Aug-2007	20:00:00	-30.13	-17.52	-29.67	-44.14	-22.52	-31.94	-34.04	-22.37
7-Aug-2007	08:00:00	-30.24	-17.91	-30.00	-44.14	-22.78	-32.13	-34.22	-22.55
7-Aug-2007	20:00:00	-30.34	-18.31	-30.31	-44.14	-22.95	-32.29	-34.40	-22.66
8-Aug-2007	08:00:00	-30.43	-18.66	-30.60	-44.14	-23.15	-32.47	-34.52	-22.83
8-Aug-2007	20:00:00	-30.51	-19.00	-30.84	-44.14	-23.23	-32.59	-34.63	-22.93
9-Aug-2007	08:00:00	-30.61	-19.34	-31.14	-44.15	-23.47	-32.77	-34.77	-23.10
9-Aug-2007	20:00:00	-30.67	-19.64	-28.23	-44.14	-23.62	-32.89	-34.89	-23.22
10-Aug-2007	08:00:00	-30.74	-20.01	-28.58	-44.15	-23.82	-33.04	-35.03	-23.45
10-Aug-2007	20:00:00	-30.81	-10.03	-28.95	-44.14	-23.96	-33.11	-35.23	-22.78
11-Aug-2007	08:00:00	-30.94	-3.73	-29.40	-9.76	-24.36	-32.64	-34.65	-15.36
11-Aug-2007	20:00:00	-31.09	-2.49	-29.20	-24.95	-24.77	-32.10	-17.24	-14.93
12-Aug-2007	08:00:00	-31.23	-2.84	-28.56	-31.51	-25.15	-31.94	-17.12	-16.40
12-Aug-2007	20:00:00	-31.32	-2.90	-28.17	-35.16	-25.09	-32.01	-19.52	-17.31
13-Aug-2007	08:00:00	-31.41	-3.94	-28.59	-37.95	-25.23	-32.22	-21.80	-18.24
13-Aug-2007	20:00:00	-31.47	-7.00	-29.08	-40.17	-25.40	-32.42	-23.38	-18.84

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
14-Aug-2007	08:00:00	-31.60	-9.42	-29.67	-42.23	-25.67	-32.77	-24.83	-19.63
14-Aug-2007	20:00:00	-31.71	-10.61	-30.15	-43.86	-25.98	-33.04	-26.04	-20.23
15-Aug-2007	08:00:00	-31.83	-11.82	-30.67	-44.14	-26.29	-33.38	-27.09	-20.89
15-Aug-2007	20:00:00	-31.95	-12.91	-31.12	-44.14	-26.54	-33.68	-27.99	-21.46
16-Aug-2007	08:00:00	-32.09	-13.91	-31.49	-44.15	-26.81	-33.99	-28.75	-22.03
16-Aug-2007	20:00:00	-32.20	-14.88	-31.81	-44.14	-27.01	-34.23	-29.36	-22.47
17-Aug-2007	08:00:00	-32.33	-15.42	-32.09	-44.14	-27.19	-34.52	-29.90	-22.44
17-Aug-2007	20:00:00	-32.41	-16.14	-32.25	-44.14	-27.30	-34.68	-30.40	-22.90
18-Aug-2007	08:00:00	-32.58	-16.98	-32.57	-44.14	-27.57	-35.03	-31.11	-23.48
18-Aug-2007	20:00:00	-32.78	-17.87	-32.84	-44.15	-27.87	-35.35	-31.84	-24.00
19-Aug-2007	08:00:00	-32.95	-18.72	-33.12	-44.14	-28.15	-35.64	-32.41	-24.41
19-Aug-2007	20:00:00	-33.04	-19.46	-33.31	-44.14	-28.33	-35.73	-32.87	-24.71
20-Aug-2007	08:00:00	-33.16	-20.15	-33.52	-44.14	-28.54	-35.94	-33.32	-25.01
20-Aug-2007	20:00:00	-33.23	-20.78	-33.67	-44.15	-28.72	-36.06	-33.69	-25.23
21-Aug-2007	08:00:00	-33.34	-21.34	-33.89	-44.15	-28.92	-36.25	-34.03	-25.48
21-Aug-2007	20:00:00	-33.45	-21.87	-34.13	-44.15	-29.06	-36.42	-34.36	-25.71
22-Aug-2007	08:00:00	-33.57	-22.37	-34.32	-44.16	-29.24	-36.57	-34.62	-25.97
22-Aug-2007	20:00:00	-33.67	-22.92	-34.55	-44.15	-29.37	-36.71	-34.94	-26.20
23-Aug-2007	08:00:00	-33.81	-23.44	-34.78	-44.14	-29.55	-36.86	-35.31	-26.47
23-Aug-2007	20:00:00	-33.91	-23.94	-34.98	-44.16	-29.69	-36.99	-35.62	-26.71
24-Aug-2007	08:00:00	-34.02	-24.44	-35.20	-44.16	-29.85	-37.14	-35.95	-26.95
24-Aug-2007	20:00:00	-34.10	-24.93	-35.37	-44.15	-30.03	-37.24	-36.22	-27.15
25-Aug-2007	08:00:00	-34.20	-25.35	-35.55	-44.15	-30.19	-37.39	-36.46	-27.35
25-Aug-2007	20:00:00	-34.24	-25.76	-35.71	-44.16	-30.34	-37.48	-36.64	-27.50
26-Aug-2007	08:00:00	-34.34	-26.15	-35.92	-44.15	-30.54	-37.64	-36.86	-27.68
26-Aug-2007	20:00:00	-34.44	-26.57	-36.13	-44.15	-30.77	-37.81	-37.13	-27.88
27-Aug-2007	08:00:00	-34.58	-26.98	-36.35	-44.15	-31.02	-37.98	-37.47	-28.12
27-Aug-2007	20:00:00	-34.72	-27.38	-36.59	-44.14	-31.26	-37.68	-37.88	-28.32
28-Aug-2007	08:00:00	-34.87	-27.75	-36.80	-44.15	-31.49	-37.95	-38.46	-28.54
28-Aug-2007	20:00:00	-34.99	-28.15	-36.96	-44.13	-31.69	-38.13	-38.87	-28.72
29-Aug-2007	08:00:00	-35.14	-28.53	-37.18	-44.14	-31.91	-38.34	-39.33	-28.92
29-Aug-2007	20:00:00	-35.23	-28.92	-37.31	-44.15	-32.11	-38.49	-39.57	-29.07
30-Aug-2007	08:00:00	-35.31	-29.33	-37.49	-44.13	-32.21	-38.68	-39.80	-29.22
30-Aug-2007	20:00:00	-35.38	-29.70	-37.62	-44.14	-32.36	-38.84	-40.05	-29.35
31-Aug-2007	08:00:00	-35.47	-30.06	-37.79	-44.14	-32.53	-39.03	-40.30	-29.49
31-Aug-2007	20:00:00	-35.54	-30.40	-37.97	-44.15	-32.72	-39.24	-40.57	-29.65
1-Sep-2007	08:00:00	-35.69	-30.76	-38.18	-44.13	-32.71	-39.49	-40.90	-29.84
1-Sep-2007	20:00:00	-35.85	-31.15	-38.38	-44.15	-32.61	-39.78	-41.23	-30.02
2-Sep-2007	08:00:00	-35.99	-31.53	-38.60	-44.14	-32.60	-40.18	-41.52	-30.23
2-Sep-2007	20:00:00	-36.14	-31.90	-38.78	-44.15	-32.61	-40.52	-41.75	-30.39
3-Sep-2007	08:00:00	-36.25	-32.23	-38.96	-44.14	-32.62	-40.89	-42.00	-30.58
3-Sep-2007	20:00:00	-36.32	-32.56	-39.08	-44.14	-32.61	-41.18	-42.15	-30.68
4-Sep-2007	08:00:00	-36.40	-32.85	-39.25	-44.14	-32.63	-41.55	-42.37	-30.84
4-Sep-2007	20:00:00	-36.47	-33.15	-39.40	-44.15	-32.63	-41.80	-42.57	-30.97
5-Sep-2007	08:00:00	-36.59	-33.45	-39.60	-44.14	-32.65	-42.12	-42.80	-31.14
5-Sep-2007	20:00:00	-36.69	-33.76	-39.78	-44.14	-32.66	-42.46	-43.04	-31.30
6-Sep-2007	08:00:00	-36.85	-34.05	-40.03	-44.14	-32.69	-42.80	-43.37	-31.49
6-Sep-2007	20:00:00	-37.02	-34.35	-40.21	-44.15	-32.68	-43.13	-43.64	-31.63
7-Sep-2007	08:00:00	-37.18	-34.61	-40.49	-44.16	-32.69	-43.45	-43.90	-31.79
7-Sep-2007	20:00:00	-37.32	-34.87	-40.71	-44.15	-32.68	-43.79	-44.09	-31.91

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
8-Sep-2007	08:00:00	-37.42	-35.12	-41.03	-44.16	-32.68	-44.10	-44.32	-32.05
8-Sep-2007	20:00:00	-37.50	-35.35	-41.24	-44.15	-32.68	-44.46	-44.52	-32.16
9-Sep-2007	08:00:00	-37.61	-35.56	-41.50	-44.14	-32.67	-44.77	-44.73	-32.29
9-Sep-2007	20:00:00	-37.62	-35.75	-35.98	-44.15	-32.66	-39.12	-44.89	-32.40
10-Sep-2007	08:00:00	-37.73	-35.91	-36.12	-44.15	-32.66	-39.60	-45.17	-32.56
10-Sep-2007	20:00:00	-37.81	-36.11	-36.39	-44.15	-32.67	-40.63	-45.39	-32.68
11-Sep-2007	08:00:00	-37.88	-36.27	-36.70	-44.16	-32.67	-41.62	-45.62	-32.79
11-Sep-2007	20:00:00	-37.93	-36.46	-36.99	-44.13	-32.68	-42.38	-45.80	-32.90
12-Sep-2007	08:00:00	-38.06	-36.62	-37.39	-44.15	-32.67	-43.03	-46.08	-33.07
12-Sep-2007	20:00:00	-38.18	-36.79	-37.77	-44.14	-32.67	-43.78	-46.45	-33.20
13-Sep-2007	08:00:00	-38.37	-36.97	-38.17	-44.15	-32.66	-44.35	-46.81	-33.35
13-Sep-2007	20:00:00	-38.53	-37.14	-38.50	-44.15	-32.67	-45.08	-47.06	-33.48
14-Sep-2007	08:00:00	-38.69	-37.28	-38.84	-44.15	-32.68	-45.52	-47.32	-33.62
14-Sep-2007	20:00:00	-38.76	-37.40	-39.07	-44.16	-32.67	-46.00	-47.44	-33.70
15-Sep-2007	08:00:00	-38.79	-36.11	-11.64	-5.74	-32.67	-46.31	-40.47	-14.84
15-Sep-2007	20:00:00	-38.92	-36.36	-15.39	-14.40	-32.67	-46.68	-40.33	-16.56
16-Sep-2007	08:00:00	-39.07	-36.64	-17.20	-19.31	-32.66	-46.98	-41.10	-18.11
16-Sep-2007	20:00:00	-39.18	-36.91	-18.66	-22.44	-32.68	-47.39	-41.77	-19.12
17-Sep-2007	08:00:00	-39.32	-37.14	-20.21	-25.17	-32.67	-47.69	-42.46	-20.20
17-Sep-2007	20:00:00	-39.46	-37.33	-21.72	-28.00	-32.66	-48.09	-43.00	-20.95
18-Sep-2007	08:00:00	-39.59	-37.50	-23.43	-30.47	-32.66	-48.43	-43.50	-21.72
18-Sep-2007	20:00:00	-39.71	-37.68	-24.84	-32.28	-32.67	-48.90	-43.86	-22.35
19-Sep-2007	08:00:00	-39.84	-37.82	-26.04	-33.59	-32.67	-49.21	-44.20	-22.99
19-Sep-2007	20:00:00	-39.93	-37.97	-27.07	-35.20	-32.67	-49.55	-44.54	-23.51
20-Sep-2007	08:00:00	-40.04	-38.11	-27.97	-36.48	-32.66	-49.75	-44.85	-24.04
20-Sep-2007	20:00:00	-40.12	-38.23	-28.73	-37.68	-32.66	-49.89	-45.13	-24.52
21-Sep-2007	08:00:00	-40.24	-38.34	-29.49	-38.77	-32.65	-50.04	-45.44	-24.98
21-Sep-2007	20:00:00	-40.34	-38.47	-30.18	-39.77	-32.65	-50.21	-45.72	-25.40
22-Sep-2007	08:00:00	-40.44	-38.58	-30.86	-40.77	-32.66	-50.37	-46.01	-25.80
22-Sep-2007	20:00:00	-40.51	-38.71	-31.43	-41.66	-32.67	-50.54	-46.31	-26.16
23-Sep-2007	08:00:00	-40.65	-38.82	-32.01	-42.67	-32.67	-50.24	-46.63	-26.54
23-Sep-2007	20:00:00	-40.75	-38.96	-32.53	-43.70	-32.66	-50.25	-46.96	-26.88
24-Sep-2007	08:00:00	-40.90	-39.10	-33.08	-44.30	-32.64	-50.29	-47.39	-27.22
24-Sep-2007	20:00:00	-40.99	-39.24	-33.55	-44.19	-32.67	-50.30	-47.59	-27.52
25-Sep-2007	08:00:00	-41.13	-39.37	-34.03	-44.18	-32.65	-50.31	-47.73	-27.85
25-Sep-2007	20:00:00	-41.20	-39.49	-34.45	-44.18	-32.66	-50.31	-47.88	-28.08
26-Sep-2007	08:00:00	-41.26	-39.62	-34.92	-44.16	-32.66	-50.32	-48.02	-28.37
26-Sep-2007	20:00:00	-41.32	-39.74	-35.34	-44.15	-32.66	-50.32	-48.15	-28.59
27-Sep-2007	08:00:00	-41.36	-39.89	-35.76	-44.16	-32.66	-50.32	-48.26	-28.83
27-Sep-2007	20:00:00	-41.38	-39.42	-36.12	-44.16	-32.66	-50.31	-48.35	-29.00
28-Sep-2007	08:00:00	-41.43	-39.63	-36.53	-44.17	-32.66	-50.33	-48.27	-29.24
28-Sep-2007	20:00:00	-41.52	-39.86	-36.96	-44.15	-32.66	-50.34	-48.26	-29.48
29-Sep-2007	08:00:00	-41.69	-40.06	-37.49	-44.17	-32.66	-50.35	-48.25	-29.79
29-Sep-2007	20:00:00	-41.82	-40.27	-37.91	-44.15	-32.65	-50.35	-48.26	-30.05
30-Sep-2007	08:00:00	-42.00	-40.45	-38.34	-44.16	-32.66	-50.34	-48.25	-30.33
30-Sep-2007	20:00:00	-42.11	-40.66	-38.69	-44.15	-32.66	-50.33	-48.25	-30.55
1-Oct-2007	08:00:00	-42.21	-40.86	-39.08	-44.16	-32.66	-50.34	-48.25	-30.79
1-Oct-2007	20:00:00	-42.30	-41.07	-39.40	-44.16	-32.65	-50.32	-48.27	-30.98
2-Oct-2007	08:00:00	-42.38	-41.29	-39.74	-44.16	-32.65	-50.33	-48.26	-31.20
2-Oct-2007	20:00:00	-42.42	-41.52	-40.05	-44.16	-32.66	-50.32	-48.25	-31.37

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
3-Oct-2007	08:00:00	-42.47	-41.74	-40.44	-44.15	-32.66	-50.32	-48.26	-31.56
3-Oct-2007	20:00:00	-42.54	-41.99	-40.93	-44.17	-32.65	-50.31	-48.26	-31.75
4-Oct-2007	08:00:00	-42.60	-42.24	-41.47	-44.15	-32.66	-50.32	-48.25	-31.95
4-Oct-2007	20:00:00	-42.69	-42.51	-41.99	-44.15	-32.66	-50.32	-48.26	-32.12
5-Oct-2007	08:00:00	-42.79	-42.75	-42.41	-44.16	-32.65	-50.32	-48.25	-32.33
5-Oct-2007	20:00:00	-42.89	-42.97	-42.75	-44.15	-32.66	-50.31	-48.26	-32.51
6-Oct-2007	08:00:00	-42.97	-43.14	-43.06	-44.16	-32.67	-50.32	-48.27	-32.69
6-Oct-2007	20:00:00	-43.02	-43.34	-43.34	-44.16	-32.68	-50.30	-48.26	-32.84
7-Oct-2007	08:00:00	-43.07	-43.53	-43.63	-44.16	-32.67	-50.23	-48.25	-33.02
7-Oct-2007	20:00:00	-43.09	-43.71	-43.90	-44.15	-32.66	-50.24	-48.25	-33.16
8-Oct-2007	08:00:00	-43.15	-43.90	-44.21	-44.15	-32.66	-50.24	-48.25	-33.33
8-Oct-2007	20:00:00	-43.15	-44.10	-44.44	-44.16	-32.66	-50.23	-48.26	-33.47
9-Oct-2007	08:00:00	-43.19	-44.30	-44.70	-44.17	-32.66	-50.25	-48.26	-33.63
9-Oct-2007	20:00:00	-43.17	-44.47	-44.89	-44.16	-32.66	-50.24	-48.26	-33.77
10-Oct-2007	08:00:00	-43.21	-44.64	-45.17	-44.16	-32.67	-50.25	-48.26	-33.94
10-Oct-2007	20:00:00	-43.17	-44.81	-45.35	-44.16	-32.67	-50.26	-48.27	-34.08
11-Oct-2007	08:00:00	-43.20	-44.99	-45.61	-44.17	-32.66	-50.25	-48.24	-34.26
11-Oct-2007	20:00:00	-43.24	-45.20	-45.85	-44.16	-32.67	-50.25	-48.25	-34.48
12-Oct-2007	08:00:00	-43.30	-45.40	-46.14	-44.17	-32.67	-50.25	-48.24	-34.75
12-Oct-2007	20:00:00	-43.37	-45.59	-46.38	-44.16	-32.67	-50.25	-48.25	-34.95
13-Oct-2007	08:00:00	-43.49	-45.79	-46.68	-44.16	-32.66	-50.26	-48.25	-35.25
13-Oct-2007	20:00:00	-43.59	-46.03	-46.89	-44.16	-32.67	-50.26	-48.24	-35.41
14-Oct-2007	08:00:00	-43.69	-46.23	-47.17	-44.17	-32.66	-50.24	-48.25	-35.67
14-Oct-2007	20:00:00	-43.80	-46.44	-47.44	-44.16	-32.66	-50.24	-48.26	-35.87
15-Oct-2007	08:00:00	-43.93	-46.66	-47.72	-44.17	-32.66	-50.25	-48.24	-36.11
15-Oct-2007	20:00:00	-44.06	-46.87	-47.92	-44.15	-32.66	-50.25	-48.25	-36.21
16-Oct-2007	08:00:00	-44.17	-47.08	-48.19	-44.16	-32.65	-50.25	-48.23	-36.39
16-Oct-2007	20:00:00	-44.27	-47.26	-48.36	-44.17	-32.66	-50.23	-48.25	-36.48
17-Oct-2007	08:00:00	-44.36	-47.46	-48.62	-44.15	-32.64	-50.24	-48.24	-36.62
17-Oct-2007	20:00:00	-44.44	-47.65	-48.82	-44.17	-32.66	-50.24	-48.25	-36.72
18-Oct-2007	08:00:00	-44.51	-47.83	-49.04	-44.17	-32.66	-50.24	-48.25	-36.83
18-Oct-2007	20:00:00	-28.40	-47.97	-39.73	-44.16	-32.66	-50.25	-48.25	-32.70
19-Oct-2007	08:00:00	-29.30	-48.10	-39.56	-44.16	-32.66	-50.24	-48.25	-32.66
19-Oct-2007	20:00:00	-29.84	-48.24	-39.90	-44.16	-32.66	-50.24	-48.26	-32.84
20-Oct-2007	08:00:00	-30.35	-48.43	-40.42	-44.16	-32.64	-50.23	-48.25	-33.08
20-Oct-2007	20:00:00	-30.90	-48.60	-41.38	-44.16	-32.66	-50.24	-48.25	-33.33
21-Oct-2007	08:00:00	-31.53	-48.78	-42.35	-44.17	-32.66	-50.25	-48.24	-33.61
21-Oct-2007	20:00:00	-32.12	-48.98	-42.81	-44.16	-32.65	-50.23	-48.25	-33.89
22-Oct-2007	08:00:00	-32.60	-49.14	-43.25	-44.16	-32.65	-50.23	-48.25	-34.15
22-Oct-2007	20:00:00	-32.97	-49.27	-43.59	-44.16	-32.65	-50.24	-48.23	-34.41
23-Oct-2007	08:00:00	-33.24	-49.45	-43.94	-44.16	-32.66	-50.24	-48.25	-34.69
23-Oct-2007	20:00:00	-33.43	-49.11	-44.19	-44.15	-32.66	-50.23	-48.24	-34.89
24-Oct-2007	08:00:00	-33.66	-49.41	-44.52	-44.16	-32.65	-50.22	-48.24	-35.19
24-Oct-2007	20:00:00	-17.08	-0.19	-8.13	-16.65	-32.67	-11.31	-4.09	-4.29
25-Oct-2007	08:00:00	-16.87	-0.21	-8.84	-22.09	-32.65	-17.18	-4.79	-4.01
25-Oct-2007	20:00:00	-13.42	-0.55	-8.90	-24.27	-19.05	-20.65	-4.79	-3.83
26-Oct-2007	08:00:00	-12.45	-0.91	-9.55	-24.98	-12.13	-21.68	-5.34	-3.91
26-Oct-2007	20:00:00	-9.67	-0.78	-9.01	-24.54	-8.09	-20.48	-4.51	-3.17
27-Oct-2007	08:00:00	-6.91	-0.57	-8.41	-24.23	-8.20	-17.98	-4.24	-3.21
27-Oct-2007	20:00:00	-10.20	-0.95	-9.26	-24.62	-9.34	-17.94	-5.35	-3.73



Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
28-Oct-2007	08:00:00	-12.58	-1.34	-11.33	-25.49	-9.75	-18.78	-6.88	-3.97
28-Oct-2007	20:00:00	-14.77	-1.79	-12.19	-26.77	-14.14	-19.90	-11.74	-5.13
29-Oct-2007	08:00:00	-17.11	-2.23	-13.51	-28.04	-16.85	-22.11	-15.21	-5.52
29-Oct-2007	20:00:00	-18.72	-2.84	-14.75	-29.07	-17.74	-24.68	-17.93	-8.08
30-Oct-2007	08:00:00	-20.08	-6.00	-16.89	-30.79	-19.02	-27.24	-20.00	-8.63
30-Oct-2007	20:00:00	-21.16	-8.96	-18.41	-31.8	-19.64	-29.46	-21.38	-10.37
31-Oct-2007	08:00:00	-22.16	-11.28	-20.00	-33.28	-20.52	-31.46	-22.77	-11.12
31-Oct-2007	20:00:00	-22.95	-11.97	-21.62	-35.62	-21.26	-33.34	-23.68	-12.16
1-Nov-2007	08:00:00	-23.57	-13.29	-23.28	-37.3	-22.06	-34.53	-24.57	-12.63
1-Nov-2007	20:00:00	-24.15	-14.37	-24.64	-38.84	-22.96	-35.35	-25.33	-13.87
2-Nov-2007	08:00:00	-24.95	-15.52	-26.01	-40.35	-23.69	-36.71	-26.19	-15.59
2-Nov-2007	20:00:00	-25.67	-16.55	-27.07	-41.62	-24.13	-37.46	-26.91	-17.01
3-Nov-2007	08:00:00	-26.20	-17.44	-27.87	-42.67	-24.58	-37.81	-27.62	-18.20
3-Nov-2007	20:00:00	-26.74	-18.22	-28.70	-43.74	-25.07	-38.32	-28.44	-19.12
4-Nov-2007	08:00:00	-27.33	-19.07	-29.46	-44.36	-25.59	-39.03	-29.18	-20.22
4-Nov-2007	20:00:00	-27.96	-19.84	-30.06	-44.22	-26.04	-39.61	-29.90	-21.31
5-Nov-2007	08:00:00	-28.63	-20.61	-30.61	-44.23	-26.53	-40.40	-30.48	-22.41
5-Nov-2007	20:00:00	-29.20	-21.31	-31.06	-44.2	-26.95	-41.03	-31.08	-23.34
6-Nov-2007	08:00:00	-29.61	-21.89	-31.42	-44.2	-27.34	-41.12	-31.55	-24.02
6-Nov-2007	20:00:00	-30.15	-22.57	-31.96	-44.2	-27.79	-42.07	-32.20	-24.63
7-Nov-2007	08:00:00	-30.85	-23.26	-32.48	-44.22	-28.27	-43.15	-33.20	-25.05
7-Nov-2007	20:00:00	-31.56	-23.90	-32.92	-44.21	-28.75	-43.81	-34.15	-25.37
8-Nov-2007	08:00:00	-32.24	-24.50	-33.37	-44.23	-29.17	-44.37	-34.86	-25.74
8-Nov-2007	20:00:00	-32.83	-25.08	-33.76	-44.22	-29.57	-44.84	-35.50	-26.01
9-Nov-2007	08:00:00	-33.32	-25.60	-34.09	-44.21	-29.90	-45.15	-36.04	-26.32
9-Nov-2007	20:00:00	-33.69	-26.06	-34.38	-44.21	-30.17	-45.19	-36.52	-26.52
10-Nov-2007	08:00:00	-34.06	-26.50	-34.74	-44.21	-30.48	-45.25	-36.91	-26.75
10-Nov-2007	20:00:00	-34.52	-26.99	-35.21	-44.24	-30.95	-46.15	-37.48	-27.06
11-Nov-2007	08:00:00	-35.18	-27.53	-35.70	-44.24	-31.49	-47.17	-38.60	-27.40
11-Nov-2007	20:00:00	-35.76	-28.03	-36.15	-44.24	-31.89	-47.93	-39.68	-27.65
12-Nov-2007	08:00:00	-36.28	-28.52	-36.55	-44.25	-32.20	-48.48	-40.41	-27.88
12-Nov-2007	20:00:00	-36.68	-28.94	-36.87	-44.23	-32.32	-48.40	-41.07	-28.06
13-Nov-2007	08:00:00	-37.02	-29.29	-37.15	-44.22	-32.46	-48.11	-41.53	-28.19
13-Nov-2007	20:00:00								
14-Nov-2007	08:00:00								
14-Nov-2007	20:00:00								
15-Nov-2007	08:00:00								
15-Nov-2007	20:00:00								
16-Nov-2007	08:00:00								
16-Nov-2007	20:00:00								
17-Nov-2007	08:00:00								
17-Nov-2007	20:00:00								
18-Nov-2007	08:00:00								
18-Nov-2007	20:00:00								
19-Nov-2007	08:00:00								
19-Nov-2007	20:00:00								
20-Nov-2007	08:00:00								
20-Nov-2007	20:00:00								
21-Nov-2007	08:00:00								
21-Nov-2007	20:00:00								

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
22-Nov-2007	08:00:00								
22-Nov-2007	20:00:00								
23-Nov-2007	08:00:00								
23-Nov-2007	20:00:00								
24-Nov-2007	08:00:00								
24-Nov-2007	20:00:00								
25-Nov-2007	08:00:00								
25-Nov-2007	20:00:00								
26-Nov-2007	08:00:00								
26-Nov-2007	20:00:00								
27-Nov-2007	08:00:00								
27-Nov-2007	20:00:00								
28-Nov-2007	08:00:00								
28-Nov-2007	20:00:00								
29-Nov-2007	08:00:00								
29-Nov-2007	20:00:00								
30-Nov-2007	08:00:00								
30-Nov-2007	20:00:00								
1-Dec-2007	08:00:00								
1-Dec-2007	20:00:00								
2-Dec-2007	08:00:00								
2-Dec-2007	20:00:00								
3-Dec-2007	08:00:00								
3-Dec-2007	20:00:00								
4-Dec-2007	08:00:00								
4-Dec-2007	20:00:00								
5-Dec-2007	08:00:00								
5-Dec-2007	20:00:00								
6-Dec-2007	08:00:00								
6-Dec-2007	20:00:00								
7-Dec-2007	08:00:00								
7-Dec-2007	20:00:00								
8-Dec-2007	08:00:00								
8-Dec-2007	20:00:00								
9-Dec-2007	08:00:00								
9-Dec-2007	20:00:00								
10-Dec-2007	08:00:00								
10-Dec-2007	20:00:00								
11-Dec-2007	08:00:00								
11-Dec-2007	20:00:00								
12-Dec-2007	08:00:00								
12-Dec-2007	20:00:00								
13-Dec-2007	08:00:00								
13-Dec-2007	20:00:00								
14-Dec-2007	08:00:00								
14-Dec-2007	20:00:00								
15-Dec-2007	08:00:00								
15-Dec-2007	20:00:00								
16-Dec-2007	08:00:00								
16-Dec-2007	20:00:00								

Date	Time	Water Level (inches)							
dd-mmm-yyyy	hh:mm:ss	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8
17-Dec-2007	08:00:00								
17-Dec-2007	20:00:00								
18-Dec-2007	08:00:00								
18-Dec-2007	20:00:00								
19-Dec-2007	08:00:00								
19-Dec-2007	20:00:00								
20-Dec-2007	08:00:00								
20-Dec-2007	20:00:00								
21-Dec-2007	08:00:00								
21-Dec-2007	20:00:00								
22-Dec-2007	08:00:00								
22-Dec-2007	20:00:00								
23-Dec-2007	08:00:00								
23-Dec-2007	20:00:00								
24-Dec-2007	08:00:00								
24-Dec-2007	20:00:00								
25-Dec-2007	08:00:00								
25-Dec-2007	20:00:00								
26-Dec-2007	08:00:00								
26-Dec-2007	20:00:00								
27-Dec-2007	08:00:00								
27-Dec-2007	20:00:00								
28-Dec-2007	08:00:00								
28-Dec-2007	20:00:00								
29-Dec-2007	08:00:00								
29-Dec-2007	20:00:00								
30-Dec-2007	08:00:00								
30-Dec-2007	20:00:00								
31-Dec-2007	08:00:00								
31-Dec-2007	20:00:00								

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
1-Jan-2007	08:00:00							
1-Jan-2007	20:00:00							
2-Jan-2007	08:00:00							
2-Jan-2007	20:00:00							
3-Jan-2007	08:00:00							
3-Jan-2007	20:00:00							
4-Jan-2007	08:00:00							
4-Jan-2007	20:00:00							
5-Jan-2007	08:00:00							
5-Jan-2007	20:00:00							
6-Jan-2007	08:00:00							
6-Jan-2007	20:00:00							
7-Jan-2007	08:00:00							
7-Jan-2007	20:00:00							
8-Jan-2007	08:00:00							
8-Jan-2007	20:00:00							
9-Jan-2007	08:00:00							
9-Jan-2007	20:00:00							
10-Jan-2007	08:00:00							
10-Jan-2007	20:00:00							
11-Jan-2007	08:00:00							
11-Jan-2007	20:00:00							
12-Jan-2007	08:00:00							
12-Jan-2007	20:00:00							
13-Jan-2007	08:00:00							
13-Jan-2007	20:00:00							
14-Jan-2007	08:00:00							
14-Jan-2007	20:00:00							
15-Jan-2007	08:00:00							
15-Jan-2007	20:00:00							
16-Jan-2007	08:00:00							
16-Jan-2007	20:00:00							
17-Jan-2007	08:00:00							
17-Jan-2007	20:00:00							
18-Jan-2007	08:00:00							
18-Jan-2007	20:00:00							
19-Jan-2007	08:00:00							
19-Jan-2007	20:00:00							
20-Jan-2007	08:00:00							
20-Jan-2007	20:00:00							
21-Jan-2007	08:00:00							
21-Jan-2007	20:00:00							
22-Jan-2007	08:00:00							
22-Jan-2007	20:00:00							
23-Jan-2007	08:00:00							
23-Jan-2007	20:00:00							
24-Jan-2007	08:00:00							
24-Jan-2007	20:00:00							
25-Jan-2007	08:00:00							
25-Jan-2007	20:00:00							

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
26-Jan-2007	08:00:00							
26-Jan-2007	20:00:00							
27-Jan-2007	08:00:00							
27-Jan-2007	20:00:00							
28-Jan-2007	08:00:00							
28-Jan-2007	20:00:00							
29-Jan-2007	08:00:00							
29-Jan-2007	20:00:00							
30-Jan-2007	08:00:00							
30-Jan-2007	20:00:00							
31-Jan-2007	08:00:00							
31-Jan-2007	20:00:00							
1-Feb-2007	08:00:00							
1-Feb-2007	20:00:00							
2-Feb-2007	08:00:00							
2-Feb-2007	20:00:00							
3-Feb-2007	08:00:00							
3-Feb-2007	20:00:00							
4-Feb-2007	08:00:00							
4-Feb-2007	20:00:00							
5-Feb-2007	08:00:00							
5-Feb-2007	20:00:00							
6-Feb-2007	08:00:00							
6-Feb-2007	20:00:00							
7-Feb-2007	08:00:00							
7-Feb-2007	20:00:00							
8-Feb-2007	08:00:00							
8-Feb-2007	20:00:00							
9-Feb-2007	08:00:00							
9-Feb-2007	20:00:00							
10-Feb-2007	08:00:00							
10-Feb-2007	20:00:00							
11-Feb-2007	08:00:00							
11-Feb-2007	20:00:00							
12-Feb-2007	08:00:00							
12-Feb-2007	20:00:00							
13-Feb-2007	08:00:00							
13-Feb-2007	20:00:00							
14-Feb-2007	08:00:00							
14-Feb-2007	20:00:00							
15-Feb-2007	08:00:00							
15-Feb-2007	20:00:00							
16-Feb-2007	08:00:00							
16-Feb-2007	20:00:00							
17-Feb-2007	08:00:00							
17-Feb-2007	20:00:00							
18-Feb-2007	08:00:00							
18-Feb-2007	20:00:00							
19-Feb-2007	08:00:00							
19-Feb-2007	20:00:00							

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
20-Feb-2007	08:00:00							
20-Feb-2007	20:00:00							
21-Feb-2007	08:00:00							
21-Feb-2007	20:00:00							
22-Feb-2007	08:00:00							
22-Feb-2007	20:00:00							
23-Feb-2007	08:00:00							
23-Feb-2007	20:00:00							
24-Feb-2007	08:00:00							
24-Feb-2007	20:00:00							
25-Feb-2007	08:00:00							
25-Feb-2007	20:00:00							
26-Feb-2007	08:00:00							
26-Feb-2007	20:00:00							
27-Feb-2007	08:00:00							
27-Feb-2007	20:00:00							
28-Feb-2007	08:00:00							
28-Feb-2007	20:00:00							
1-Mar-2007	08:00:00							
1-Mar-2007	20:00:00							
2-Mar-2007	08:00:00							
2-Mar-2007	20:00:00							
3-Mar-2007	08:00:00							
3-Mar-2007	20:00:00							
4-Mar-2007	08:00:00							
4-Mar-2007	20:00:00							
5-Mar-2007	08:00:00							
5-Mar-2007	20:00:00							
6-Mar-2007	08:00:00							
6-Mar-2007	20:00:00		-45.79		-46.07	-46.82		
7-Mar-2007	08:00:00		-45.76		-46.05	-46.81		
7-Mar-2007	20:00:00		-14.47		-12.60	-8.86		
8-Mar-2007	08:00:00		-16.74		-15.96	-9.00		
8-Mar-2007	20:00:00		-18.06	-32.07	-17.74	-9.08		
9-Mar-2007	08:00:00		-19.48	-32.50	-19.67	-9.22		
9-Mar-2007	20:00:00		-20.12	-32.78	-20.11	-9.03		
10-Mar-2007	08:00:00		-20.89	-33.03	-21.11	-9.11		
10-Mar-2007	20:00:00		-21.39	-33.21	-21.16	-9.14		
11-Mar-2007	08:00:00		-21.95	-33.41	-21.79	-9.22		
11-Mar-2007	20:00:00		-22.51	-33.65	-22.43	-9.39		
12-Mar-2007	08:00:00		-23.24	-33.94	-23.47	-9.40		
12-Mar-2007	20:00:00		-23.72	-34.13	-24.02	-9.45		
13-Mar-2007	08:00:00		-24.15	-34.34	-24.63	-9.52		
13-Mar-2007	20:00:00		-24.52	-34.49	-24.90	-9.59		
14-Mar-2007	08:00:00		-24.88	-34.70	-25.24	-9.73		
14-Mar-2007	20:00:00		-25.13	-34.82	-25.35	-9.80		
15-Mar-2007	08:00:00		-25.38	-34.96	-25.58	-9.94		
15-Mar-2007	20:00:00		-25.61	-35.09	-25.71	-10.03		
16-Mar-2007	08:00:00		-25.84	-35.22	-25.87	-8.49		
16-Mar-2007	20:00:00		-20.90	-35.26	-21.41	-6.86		

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
17-Mar-2007	08:00:00		-18.39	-35.21	-17.90	-7.20		
17-Mar-2007	20:00:00		-17.90	-34.71	-14.97	-7.59		
18-Mar-2007	08:00:00		-18.59	-34.62	-13.76	-7.86		
18-Mar-2007	20:00:00		-19.29	-34.77	-13.08	-8.13		
19-Mar-2007	08:00:00		-20.30	-35.04	-13.57	-8.30		
19-Mar-2007	20:00:00		-20.89	-35.14	-12.59	-8.42		
20-Mar-2007	08:00:00		-21.43	-35.29	-13.00	-8.55		
20-Mar-2007	20:00:00		-21.80	-35.39	-12.39	-8.64		
21-Mar-2007	08:00:00		-22.34	-35.57	-14.15	-8.80		
21-Mar-2007	20:00:00		-22.83	-35.63	-15.14	-8.90		
22-Mar-2007	08:00:00		-23.16	-35.67	-15.48	-8.96		
22-Mar-2007	20:00:00		-23.29	-35.61	-14.64	-9.01		
23-Mar-2007	08:00:00		-23.40	-35.64	-15.48	-9.10		
23-Mar-2007	20:00:00		-23.46	-35.61	-14.92	-9.24		
24-Mar-2007	08:00:00		-23.59	-35.66	-16.28	-9.36		
24-Mar-2007	20:00:00		-23.74	-35.65	-16.57	-9.47		
25-Mar-2007	08:00:00		-23.92	-35.73	-17.80	-9.68		
25-Mar-2007	20:00:00		-24.30	-35.83	-19.26	-9.95		
26-Mar-2007	08:00:00		-24.73	-35.94	-21.36	-9.98		
26-Mar-2007	20:00:00		-25.04	-35.94	-22.12	-9.97		
27-Mar-2007	08:00:00		-25.29	-36.01	-22.89	-10.07		
27-Mar-2007	20:00:00		-25.53	-36.07	-23.25	-10.28		
28-Mar-2007	08:00:00		-25.78	-36.16	-23.88	-10.35		
28-Mar-2007	20:00:00		-26.12	-36.32	-24.34	-10.51		
29-Mar-2007	08:00:00		-26.61	-36.55	-22.99	-9.34		
29-Mar-2007	20:00:00		-27.01	-36.67	-21.90	-9.51		
30-Mar-2007	08:00:00		-27.45	-36.90	-22.66	-9.76		
30-Mar-2007	20:00:00		-27.73	-36.99	-23.03	-9.72		
31-Mar-2007	08:00:00		-28.00	-37.14	-23.93	-9.91		
31-Mar-2007	20:00:00		-28.24	-37.26	-24.53	-9.92		
1-Apr-2007	08:00:00		-28.51	-37.45	-25.12	-10.08		
1-Apr-2007	20:00:00		-28.72	-37.54	-25.45	-10.14		
2-Apr-2007	08:00:00		-28.91	-37.68	-25.85	-10.23		
2-Apr-2007	20:00:00		-29.08	-37.79	-26.12	-10.62		
3-Apr-2007	08:00:00		-29.29	-37.96	-26.57	-10.86		
3-Apr-2007	20:00:00		-29.47	-38.03	-26.84	-11.19		
4-Apr-2007	08:00:00		-29.51	-38.04	-27.02	-11.03		
4-Apr-2007	20:00:00		-29.55	-38.06	-27.15	-11.63		
5-Apr-2007	08:00:00		-29.83	-38.28	-27.61	-11.97		
5-Apr-2007	20:00:00		-30.11	-38.42	-28.00	-12.44		
6-Apr-2007	08:00:00		-30.46	-38.60	-28.48	-12.56		
6-Apr-2007	20:00:00		-30.68	-38.66	-28.75	-12.67		
7-Apr-2007	08:00:00		-30.94	-38.83	-29.09	-11.30		
7-Apr-2007	20:00:00		-31.38	-39.09	-29.56	-11.53		
8-Apr-2007	08:00:00		-31.89	-39.38	-30.05	-12.26		
8-Apr-2007	20:00:00		-32.28	-39.58	-30.39	-12.55		
9-Apr-2007	08:00:00		-32.74	-39.85	-30.81	-12.96		
9-Apr-2007	20:00:00		-33.07	-40.02	-31.09	-13.19		
10-Apr-2007	08:00:00		-33.40	-40.30	-31.47	-13.58		
10-Apr-2007	20:00:00		-33.64	-40.49	-31.72	-13.80		



Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
11-Apr-2007	08:00:00		-33.85	-40.72	-31.95	-13.99		
11-Apr-2007	20:00:00		-34.01	-40.86	-32.04	-13.55		
12-Apr-2007	08:00:00		-34.07	-40.99	-32.07	-10.60		
12-Apr-2007	20:00:00		-34.07	-41.21	-32.09	-11.27		
13-Apr-2007	08:00:00		-34.33	-41.54	-32.29	-12.08		
13-Apr-2007	20:00:00		-34.55	-41.81	-32.36	-12.78		
14-Apr-2007	08:00:00		-34.78	-42.21	-32.48	-12.97		
14-Apr-2007	20:00:00		-34.91	-42.33	-32.44	-13.18		
15-Apr-2007	08:00:00		-34.86	-42.20	-32.08	-9.87		
15-Apr-2007	20:00:00		-5.78	-41.95	-23.60	-6.86		
16-Apr-2007	08:00:00		-6.10	-42.53	-18.57	-7.16		
16-Apr-2007	20:00:00		-9.18	-42.84	-18.12	-7.66		
17-Apr-2007	08:00:00		-11.12	-43.16	-18.81	-8.05		
17-Apr-2007	20:00:00		-14.23	-43.39	-19.12	-8.37		
18-Apr-2007	08:00:00		-16.02	-43.62	-19.98	-8.65		
18-Apr-2007	20:00:00		-17.41	-43.89	-20.39	-8.92		
19-Apr-2007	08:00:00		-18.44	-44.12	-21.07	-8.99		
19-Apr-2007	20:00:00		-19.33	-44.34	-21.27	-9.20		
20-Apr-2007	08:00:00		-20.33	-44.69	-21.80	-9.34		
20-Apr-2007	20:00:00		-21.16	-44.90	-21.94	-9.59		
21-Apr-2007	08:00:00		-22.15	-45.21	-22.60	-9.73		
21-Apr-2007	20:00:00		-22.81	-45.38	-22.75	-10.07		
22-Apr-2007	08:00:00		-23.64	-45.55	-23.35	-10.20		
22-Apr-2007	20:00:00		-24.26	-45.66	-23.64	-10.69		
23-Apr-2007	08:00:00		-24.89	-45.82	-24.17	-10.77		
23-Apr-2007	20:00:00		-25.33	-45.82	-24.39	-11.49		
24-Apr-2007	08:00:00		-25.76	-45.91	-24.73	-11.39		
24-Apr-2007	20:00:00		-26.10	-45.91	-24.94	-12.37		
25-Apr-2007	08:00:00		-26.41	-45.99	-25.25	-12.23		
25-Apr-2007	20:00:00	-16.05	-26.65	-45.83	-25.35	-13.61	-15.47	-15.48
26-Apr-2007	08:00:00	-18.11	-27.00	-45.96	-25.72	-13.98	-15.39	-18.16
26-Apr-2007	20:00:00	-19.42	-27.31	-45.95	-25.98	-15.08	-17.10	-19.54
27-Apr-2007	08:00:00	-20.34	-27.56	-45.98	-26.24	-15.05	-16.59	-20.42
27-Apr-2007	20:00:00	-20.51	-27.75	-45.91	-26.37	-14.14	-15.62	-20.60
28-Apr-2007	08:00:00	-21.33	-28.05	-46.01	-26.57	-14.74	-16.12	-21.15
28-Apr-2007	20:00:00	-22.07	-28.36	-46.05	-26.77	-17.12	-19.64	-21.92
29-Apr-2007	08:00:00	-22.83	-28.78	-46.18	-27.10	-18.42	-20.13	-22.79
29-Apr-2007	20:00:00	-23.48	-29.14	-46.24	-27.43	-19.62	-23.14	-23.69
30-Apr-2007	08:00:00	-24.19	-29.55	-46.37	-27.78	-20.64	-23.93	-24.54
30-Apr-2007	20:00:00	-24.65	-29.84	-46.40	-28.03	-21.54	-26.25	-25.34
1-May-2007	08:00:00	-25.25	-30.17	-46.52	-28.31	-22.33	-27.08	-26.10
1-May-2007	20:00:00	-25.67	-30.44	-46.57	-28.52	-23.00	-27.61	-26.91
2-May-2007	08:00:00	-26.11	-30.69	-46.67	-28.71	-23.64	-28.03	-27.65
2-May-2007	20:00:00	-26.50	-30.93	-46.69	-28.90	-24.22	-28.40	-28.44
3-May-2007	08:00:00	-27.02	-31.29	-46.90	-29.20	-24.83	-28.82	-29.21
3-May-2007	20:00:00	-27.59	-31.69	-47.02	-29.52	-25.36	-29.17	-29.88
4-May-2007	08:00:00	-28.10	-32.13	-47.11	-29.83	-25.73	-28.18	-29.38
4-May-2007	20:00:00	-28.50	-32.58	-47.20	-28.17	-21.31	-17.40	-25.43
5-May-2007	08:00:00	-28.90	-32.98	-47.30	-28.68	-21.30	-18.78	-26.09
5-May-2007	20:00:00	-29.25	-33.37	-47.39	-29.15	-21.77	-21.36	-26.89

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
6-May-2007	08:00:00	-29.50	-33.68	-47.56	-28.64	-18.55	-14.14	-23.68
6-May-2007	20:00:00	-30.02	-34.11	-47.80	-29.19	-19.44	-18.22	-24.43
7-May-2007	08:00:00	-30.40	-34.46	-47.97	-29.71	-20.51	-20.13	-25.55
7-May-2007	20:00:00	-30.81	-34.81	-48.10	-30.14	-21.42	-23.98	-26.68
8-May-2007	08:00:00	-31.13	-35.10	-48.21	-30.43	-22.22	-25.77	-27.55
8-May-2007	20:00:00	-31.44	-35.44	-48.34	-30.75	-22.87	-26.63	-28.26
9-May-2007	08:00:00	-31.72	-35.83	-48.47	-31.05	-22.90	-20.02	-28.85
9-May-2007	20:00:00	-29.66	-36.14	-48.55	-31.24	-20.65	-13.54	-25.28
10-May-2007	08:00:00	-29.91	-36.39	-48.68	-31.32	-16.61	-13.72	-22.34
10-May-2007	20:00:00	-30.20	-36.42	-48.75	-31.19	-17.83	-16.05	-22.58
11-May-2007	08:00:00	-30.46	-36.51	-48.86	-31.02	-18.97	-17.05	-23.44
11-May-2007	20:00:00	-30.69	-36.53	-48.93	-30.84	-20.17	-20.71	-24.55
12-May-2007	08:00:00	-30.91	-36.62	-49.06	-30.68	-21.29	-22.29	-25.56
12-May-2007	20:00:00	-31.10	-36.65	-49.15	-30.53	-21.96	-22.38	-26.26
13-May-2007	08:00:00	-31.37	-36.83	-49.25	-30.47	-22.56	-23.17	-26.90
13-May-2007	20:00:00	-31.82	-37.18	-49.43	-30.68	-23.23	-25.21	-27.65
14-May-2007	08:00:00	-32.24	-37.43	-49.63	-31.02	-23.92	-26.53	-28.39
14-May-2007	20:00:00	-32.58	-37.67	-49.74	-31.30	-24.36	-27.28	-29.22
15-May-2007	08:00:00	-32.84	-37.84	-49.86	-31.46	-24.93	-27.78	-29.91
15-May-2007	20:00:00	-32.95	-37.81	-49.85	-31.44	-25.36	-28.13	-30.61
16-May-2007	08:00:00	-33.06	-37.86	-49.94	-31.42	-25.84	-28.49	-31.19
16-May-2007	20:00:00	-33.09	-37.73	-49.93	-31.31	-26.25	-28.82	-31.81
17-May-2007	08:00:00	-25.86	-37.82	-50.08	-29.80	-15.21	-13.15	-11.45
17-May-2007	20:00:00	-26.72	-37.59	-50.18	-28.68	-16.69	-14.87	-14.92
18-May-2007	08:00:00	-27.49	-37.30	-50.28	-28.84	-18.11	-16.08	-17.27
18-May-2007	20:00:00	-28.29	-37.28	-50.41	-29.14	-19.94	-17.95	-19.18
19-May-2007	08:00:00	-29.05	-37.42	-50.60	-29.50	-20.90	-18.84	-20.50
19-May-2007	20:00:00	-29.62	-37.53	-50.71	-29.78	-21.64	-22.30	-21.94
20-May-2007	08:00:00	-30.09	-37.66	-50.89	-29.96	-22.39	-24.54	-23.19
20-May-2007	20:00:00	-30.49	-37.69	-50.98	-30.07	-23.02	-26.60	-24.65
21-May-2007	08:00:00	-30.93	-37.86	-51.20	-30.22	-23.74	-27.29	-25.85
21-May-2007	20:00:00	-31.36	-37.98	-51.38	-30.39	-24.44	-27.80	-27.19
22-May-2007	08:00:00	-31.81	-38.13	-51.60	-30.62	-25.16	-28.26	-28.36
22-May-2007	20:00:00	-32.20	-38.21	-51.75	-30.79	-25.78	-28.64	-29.47
23-May-2007	08:00:00	-32.61	-38.31	-51.90	-30.99	-26.42	-29.10	-30.36
23-May-2007	20:00:00	-32.99	-38.40	-51.94	-31.19	-26.96	-29.50	-31.32
24-May-2007	08:00:00	-33.38	-38.49	-51.99	-31.40	-27.45	-29.91	-32.07
24-May-2007	20:00:00	-33.64	-38.42	-52.01	-31.51	-27.85	-30.22	-32.82
25-May-2007	08:00:00	-33.85	-38.39	-52.06	-31.60	-28.27	-30.56	-33.41
25-May-2007	20:00:00	-33.98	-38.21	-52.04	-31.64	-28.64	-30.83	-34.07
26-May-2007	08:00:00	-34.13	-38.12	-52.09	-31.71	-29.06	-31.16	-34.62
26-May-2007	20:00:00	-34.24	-37.97	-52.10	-31.73	-29.41	-31.45	-35.24
27-May-2007	08:00:00	-34.39	-37.98	-52.15	-31.82	-29.84	-31.81	-35.77
27-May-2007	20:00:00	-34.51	-37.90	-52.17	-31.87	-30.23	-32.13	-36.39
28-May-2007	08:00:00	-34.68	-37.93	-52.23	-31.97	-30.66	-32.47	-36.90
28-May-2007	20:00:00	-34.82	-37.87	-52.24	-32.02	-31.08	-32.74	-37.49
29-May-2007	08:00:00	-35.00	-37.93	-52.28	-32.11	-31.51	-33.07	-37.96
29-May-2007	20:00:00	-35.18	-37.95	-52.30	-32.21	-31.92	-33.36	-38.54
30-May-2007	08:00:00	-35.42	-38.05	-52.35	-32.34	-32.35	-33.66	-39.03
30-May-2007	20:00:00	-35.57	-38.09	-52.36	-32.43	-32.72	-33.90	-39.75

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
31-May-2007	08:00:00	-35.77	-38.20	-52.41	-32.56	-33.13	-34.18	-40.54
31-May-2007	20:00:00	-35.89	-38.24	-52.41	-32.68	-33.50	-34.41	-41.44
1-Jun-2007	08:00:00	-36.10	-38.37	-52.44	-32.82	-33.89	-34.64	-41.92
1-Jun-2007	20:00:00	-36.18	-38.38	-52.43	-32.89	-34.25	-34.82	-42.59
2-Jun-2007	08:00:00	-36.35	-38.48	-52.45	-33.03	-34.66	-35.04	-43.12
2-Jun-2007	20:00:00	-36.39	-38.45	-52.46	-33.09	-34.98	-35.20	-43.73
3-Jun-2007	08:00:00	-2.64	-38.08	-52.34	-27.03	-33.42	-29.43	-8.63
3-Jun-2007	20:00:00	-1.04	-14.33	-52.27	-20.66	-25.72	-17.47	-10.33
4-Jun-2007	08:00:00	-1.23	-6.11	-52.34	-16.12	-26.32	-18.97	-15.74
4-Jun-2007	20:00:00	-1.64	-6.94	-52.37	-16.80	-27.10	-23.40	-19.50
5-Jun-2007	08:00:00	-1.71	-6.56	-52.47	-17.39	-27.90	-24.20	-21.74
5-Jun-2007	20:00:00	-2.22	-9.72	-52.53	-18.72	-28.64	-26.43	-24.28
6-Jun-2007	08:00:00	-1.62	-5.87	-52.23	-16.01	-24.94	-18.69	-14.44
6-Jun-2007	20:00:00	-1.99	-8.70	-52.22	-15.45	-25.77	-21.31	-19.62
7-Jun-2007	08:00:00	-2.28	-8.13	-52.22	-16.26	-26.72	-24.41	-23.08
7-Jun-2007	20:00:00	-2.37	-11.13	-52.22	-16.20	-27.63	-26.40	-26.22
8-Jun-2007	08:00:00	-2.61	-10.27	-52.23	-16.44	-28.42	-27.22	-28.41
8-Jun-2007	20:00:00	-2.63	-13.67	-52.22	-15.57	-29.04	-27.66	-30.46
9-Jun-2007	08:00:00	-2.77	-15.01	-52.22	-15.98	-29.62	-28.09	-31.95
9-Jun-2007	20:00:00	-3.94	-18.06	-52.22	-16.74	-30.24	-28.47	-33.44
10-Jun-2007	08:00:00	-4.66	-19.60	-52.22	-18.53	-30.83	-28.87	-34.56
10-Jun-2007	20:00:00	-11.23	-20.95	-52.22	-19.69	-31.44	-29.24	-35.41
11-Jun-2007	08:00:00	-13.84	-22.24	-52.23	-21.44	-32.00	-29.63	-36.01
11-Jun-2007	20:00:00	-17.14	-23.01	-52.23	-22.19	-32.55	-29.94	-36.64
12-Jun-2007	08:00:00	-18.82	-23.85	-52.23	-23.13	-33.07	-30.30	-37.19
12-Jun-2007	20:00:00	-20.15	-24.40	-52.23	-23.58	-33.63	-30.62	-37.85
13-Jun-2007	08:00:00	-21.20	-24.99	-52.23	-24.26	-34.16	-30.98	-38.41
13-Jun-2007	20:00:00	-22.04	-25.51	-52.23	-24.72	-34.66	-31.31	-39.06
14-Jun-2007	08:00:00	-22.99	-26.15	-52.25	-25.32	-35.15	-31.68	-39.74
14-Jun-2007	20:00:00	-23.85	-26.83	-52.23	-25.81	-35.59	-32.01	-40.73
15-Jun-2007	08:00:00	-24.75	-27.59	-52.24	-26.36	-36.04	-32.38	-41.53
15-Jun-2007	20:00:00	-25.47	-28.23	-52.23	-26.81	-36.53	-32.67	-42.26
16-Jun-2007	08:00:00	-26.17	-28.80	-52.24	-27.21	-37.28	-33.02	-42.92
16-Jun-2007	20:00:00	-26.75	-29.31	-52.24	-27.45	-37.81	-33.26	-43.62
17-Jun-2007	08:00:00	-27.27	-29.75	-52.25	-27.71	-38.46	-33.59	-44.23
17-Jun-2007	20:00:00	-27.69	-30.20	-52.24	-27.86	-39.05	-33.85	-44.94
18-Jun-2007	08:00:00	-28.10	-30.57	-52.24	-28.04	-39.63	-34.16	-45.54
18-Jun-2007	20:00:00	-28.42	-30.92	-52.24	-28.17	-40.22	-34.38	-46.29
19-Jun-2007	08:00:00	-28.69	-31.17	-52.24	-28.30	-40.85	-34.67	-46.94
19-Jun-2007	20:00:00	-28.85	-31.32	-52.25	-28.30	-41.35	-34.86	-47.68
20-Jun-2007	08:00:00	-28.96	-31.39	-52.24	-28.37	-41.92	-35.13	-48.44
20-Jun-2007	20:00:00	-29.26	-31.70	-52.25	-28.57	-42.26	-35.41	-49.30
21-Jun-2007	08:00:00	-29.68	-32.13	-52.25	-28.92	-42.86	-35.70	-49.68
21-Jun-2007	20:00:00	-30.01	-32.53	-52.25	-29.17	-43.17	-35.92	-50.15
22-Jun-2007	08:00:00	-30.21	-32.79	-52.25	-29.38	-43.43	-36.14	-49.81
22-Jun-2007	20:00:00	-30.43	-33.05	-52.25	-29.58	-43.42	-36.39	-49.79
23-Jun-2007	08:00:00	-30.70	-33.39	-52.26	-29.84	-43.88	-36.69	-49.81
23-Jun-2007	20:00:00	-30.98	-33.69	-52.26	-30.05	-44.46	-36.94	-49.82
24-Jun-2007	08:00:00	-31.29	-34.06	-52.27	-30.35	-45.13	-37.27	-49.81
24-Jun-2007	20:00:00	-31.62	-34.42	-52.25	-30.63	-45.37	-37.57	-49.80

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
25-Jun-2007	08:00:00	-32.00	-34.74	-52.25	-30.92	-46.23	-37.89	-49.80
25-Jun-2007	20:00:00	-32.28	-35.06	-52.25	-31.17	-46.64	-38.18	-49.80
26-Jun-2007	08:00:00	-32.59	-35.35	-52.26	-31.42	-47.14	-38.50	-49.80
26-Jun-2007	20:00:00	-32.81	-35.63	-52.25	-31.59	-46.95	-38.79	-49.81
27-Jun-2007	08:00:00	-32.92	-35.91	-52.27	-31.71	-46.96	-39.09	-49.81
27-Jun-2007	20:00:00	-33.04	-36.10	-52.27	-31.78	-46.95	-39.40	-49.79
28-Jun-2007	08:00:00	-33.17	-36.31	-52.26	-31.87	-46.96	-39.76	-49.81
28-Jun-2007	20:00:00	-33.25	-36.45	-52.26	-31.92	-46.95	-40.07	-49.80
29-Jun-2007	08:00:00	-33.44	-36.74	-52.28	-32.02	-46.95	-40.61	-49.81
29-Jun-2007	20:00:00	-33.64	-36.98	-52.28	-32.13	-46.96	-41.22	-49.80
30-Jun-2007	08:00:00	-33.81	-37.15	-52.26	-32.22	-46.96	-41.73	-49.80
30-Jun-2007	20:00:00	-33.98	-37.35	-52.31	-32.33	-46.95	-42.16	-49.80
1-Jul-2007	08:00:00	-34.22	-37.46	-52.27	-32.49	-46.95	-42.60	-49.81
1-Jul-2007	20:00:00	-34.55	-37.76	-52.26	-32.76	-46.96	-43.12	-49.81
2-Jul-2007	08:00:00	-34.99	-38.10	-52.28	-33.08	-46.97	-43.63	-49.81
2-Jul-2007	20:00:00	-35.50	-38.39	-52.26	-33.40	-46.95	-44.16	-49.81
3-Jul-2007	08:00:00	-35.98	-38.69	-52.27	-33.70	-46.98	-44.68	-49.79
3-Jul-2007	20:00:00	-36.33	-38.96	-52.29	-33.94	-46.96	-45.22	-49.81
4-Jul-2007	08:00:00	-36.64	-39.22	-52.28	-34.19	-46.97	-45.75	-49.81
4-Jul-2007	20:00:00	-36.86	-39.39	-52.28	-34.40	-46.95	-46.31	-49.79
5-Jul-2007	08:00:00	-37.06	-39.60	-52.30	-34.59	-46.97	-46.83	-49.80
5-Jul-2007	20:00:00	-37.18	-39.70	-52.31	-34.69	-46.96	-47.37	-49.80
6-Jul-2007	08:00:00	-37.36	-39.87	-52.31	-34.85	-46.97	-47.87	-49.81
6-Jul-2007	20:00:00	-37.50	-40.02	-52.26	-34.99	-46.96	-48.45	-49.80
7-Jul-2007	08:00:00	-37.70	-40.18	-52.30	-35.18	-46.97	-49.09	-49.80
7-Jul-2007	20:00:00	-37.84	-40.29	-52.29	-35.31	-46.97	-49.75	-49.80
8-Jul-2007	08:00:00	-38.03	-40.44	-52.30	-35.49	-46.96	-50.12	-49.81
8-Jul-2007	20:00:00	-38.19	-40.59	-52.28	-35.70	-46.98	-50.51	-49.80
9-Jul-2007	08:00:00	-38.46	-40.77	-52.28	-36.08	-46.97	-50.49	-49.80
9-Jul-2007	20:00:00	-38.62	-40.91	-52.34	-36.31	-46.97	-50.43	-49.81
10-Jul-2007	08:00:00	-38.69	-41.07	-52.29	-36.62	-46.97	-50.42	-49.80
10-Jul-2007	20:00:00	-9.27	-40.63	-52.30	-36.52	-46.98	-38.15	-42.02
11-Jul-2007	08:00:00	-2.49	-38.59	-52.36	-34.00	-46.98	-39.35	-46.93
11-Jul-2007	20:00:00	-1.38	-36.30	-52.36	-33.97	-42.45	-31.56	-20.81
12-Jul-2007	08:00:00	-1.35	-16.84	-52.28	-25.62	-43.98	-33.49	-32.12
12-Jul-2007	20:00:00	-1.92	-11.84	-52.28	-24.35	-46.37	-34.74	-34.86
13-Jul-2007	08:00:00	-2.28	-10.34	-52.27	-25.13	-47.09	-35.69	-36.59
13-Jul-2007	20:00:00	-2.38	-10.06	-52.28	-25.65	-46.99	-36.47	-38.14
14-Jul-2007	08:00:00	-2.56	-10.86	-52.29	-26.22	-46.99	-37.13	-39.59
14-Jul-2007	20:00:00	-2.63	-15.80	-52.29	-26.58	-46.99	-37.74	-41.55
15-Jul-2007	08:00:00	-2.84	-18.37	-52.28	-27.18	-47.00	-38.28	-42.81
15-Jul-2007	20:00:00	-5.46	-20.61	-52.28	-27.56	-46.99	-38.86	-44.18
16-Jul-2007	08:00:00	-5.99	-22.22	-52.28	-28.00	-47.00	-39.46	-45.19
16-Jul-2007	20:00:00	-15.13	-23.34	-52.27	-28.23	-47.01	-40.16	-46.44
17-Jul-2007	08:00:00	-17.16	-24.40	-52.28	-28.57	-47.02	-40.98	-47.48
17-Jul-2007	20:00:00	-2.09	-25.03	-52.28	-28.53	-47.02	-29.27	-10.37
18-Jul-2007	08:00:00	-0.60	-5.61	-52.29	-7.77	-43.50	-31.02	-22.15
18-Jul-2007	20:00:00	-0.91	-6.86	-52.29	-6.92	-44.92	-32.20	-28.98
19-Jul-2007	08:00:00	-1.01	-6.70	-52.30	-6.27	-46.38	-33.09	-31.07
19-Jul-2007	20:00:00	-1.32	-9.10	-52.29	-8.22	-46.91	-33.85	-33.21

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
20-Jul-2007	08:00:00	-1.49	-8.66	-52.29	-9.89	-47.02	-34.49	-34.60
20-Jul-2007	20:00:00	-1.78	-13.07	-52.30	-11.37	-47.02	-35.11	-36.09
21-Jul-2007	08:00:00	-2.00	-16.30	-52.30	-12.71	-47.04	-35.68	-37.31
21-Jul-2007	20:00:00	-3.10	-19.57	-52.29	-15.02	-47.02	-36.29	-38.83
22-Jul-2007	08:00:00	-3.57	-21.75	-52.30	-17.27	-47.03	-36.82	-40.41
22-Jul-2007	20:00:00	-10.64	-23.09	-52.28	-19.03	-47.01	-37.39	-42.21
23-Jul-2007	08:00:00	-11.22	-24.33	-52.31	-20.89	-47.00	-37.93	-43.40
23-Jul-2007	20:00:00	-17.04	-25.23	-52.29	-22.00	-47.00	-38.46	-44.86
24-Jul-2007	08:00:00	-19.06	-26.18	-52.29	-23.29	-47.01	-39.03	-45.91
24-Jul-2007	20:00:00	-20.39	-26.78	-52.29	-23.85	-46.99	-39.65	-47.34
25-Jul-2007	08:00:00	-21.39	-27.52	-52.30	-24.60	-47.00	-40.30	-48.53
25-Jul-2007	20:00:00	-22.12	-28.11	-52.28	-25.01	-47.00	-41.26	-49.82
26-Jul-2007	08:00:00	-22.92	-28.66	-52.30	-25.53	-47.00	-42.08	-49.88
26-Jul-2007	20:00:00	-23.48	-29.08	-52.28	-25.78	-47.00	-42.78	-49.87
27-Jul-2007	08:00:00	-23.97	-29.43	-52.29	-26.12	-46.99	-43.42	-49.87
27-Jul-2007	20:00:00	-21.60	-29.66	-52.28	-26.23	-47.00	-33.14	-28.53
28-Jul-2007	08:00:00	-22.75	-29.90	-52.30	-26.18	-47.01	-34.21	-32.29
28-Jul-2007	20:00:00	-23.64	-30.19	-52.29	-25.92	-47.00	-35.19	-34.94
29-Jul-2007	08:00:00	-24.41	-30.53	-52.31	-26.00	-46.99	-36.01	-36.62
29-Jul-2007	20:00:00	-24.99	-30.90	-52.29	-26.05	-46.99	-36.86	-38.68
30-Jul-2007	08:00:00	-25.57	-31.28	-52.31	-26.28	-47.00	-37.53	-40.81
30-Jul-2007	20:00:00	-26.11	-31.66	-52.29	-26.42	-47.01	-38.22	-38.34
31-Jul-2007	08:00:00	-26.69	-32.06	-52.30	-26.48	-47.00	-38.82	-40.83
31-Jul-2007	20:00:00	-27.18	-32.43	-52.30	-26.45	-47.00	-39.50	-43.00
1-Aug-2007	08:00:00	-27.71	-32.86	-52.31	-26.71	-47.00	-40.25	-44.41
1-Aug-2007	20:00:00	-28.18	-33.24	-52.30	-26.92	-47.01	-41.53	-46.28
2-Aug-2007	08:00:00	-28.71	-33.62	-52.32	-27.29	-47.00	-42.45	-47.75
2-Aug-2007	20:00:00	-29.12	-33.95	-52.29	-27.55	-46.99	-43.53	-49.71
3-Aug-2007	08:00:00	-29.49	-34.21	-52.32	-27.82	-47.00	-44.42	-49.84
3-Aug-2007	20:00:00	-29.81	-34.49	-52.30	-28.03	-47.01	-45.41	-49.83
4-Aug-2007	08:00:00	-30.05	-34.69	-52.31	-28.26	-47.02	-46.27	-49.83
4-Aug-2007	20:00:00	-30.23	-34.89	-52.29	-28.40	-47.01	-47.32	-49.83
5-Aug-2007	08:00:00	-30.46	-35.13	-52.31	-28.57	-47.01	-48.19	-49.83
5-Aug-2007	20:00:00	-30.61	-35.32	-52.30	-28.73	-47.00	-49.42	-49.80
6-Aug-2007	08:00:00	-30.76	-35.56	-52.31	-28.90	-47.00	-50.21	-49.79
6-Aug-2007	20:00:00	-30.89	-35.85	-52.31	-29.06	-47.01	-50.45	-49.79
7-Aug-2007	08:00:00	-31.08	-36.26	-52.30	-29.24	-47.02	-50.45	-49.79
7-Aug-2007	20:00:00	-31.24	-36.60	-52.31	-29.41	-47.01	-50.46	-49.79
8-Aug-2007	08:00:00	-31.35	-36.92	-52.31	-29.56	-47.01	-50.46	-49.79
8-Aug-2007	20:00:00	-31.44	-37.18	-52.31	-29.63	-47.01	-50.45	-49.80
9-Aug-2007	08:00:00	-31.58	-37.39	-52.31	-29.76	-47.01	-50.44	-49.79
9-Aug-2007	20:00:00	-31.72	-37.66	-52.30	-29.86	-47.01	-50.46	-49.79
10-Aug-2007	08:00:00	-31.89	-37.99	-52.29	-29.98	-47.02	-50.47	-49.79
10-Aug-2007	20:00:00	-32.10	-38.32	-52.31	-30.12	-47.02	-50.47	-48.30
11-Aug-2007	08:00:00	-26.09	-38.74	-52.31	-29.21	-47.02	-50.47	-38.33
11-Aug-2007	20:00:00	-27.58	-39.12	-52.31	-28.70	-47.02	-50.46	-43.53
12-Aug-2007	08:00:00	-28.99	-39.59	-52.32	-29.35	-47.03	-50.46	-45.48
12-Aug-2007	20:00:00	-29.94	-39.93	-52.31	-29.81	-47.01	-50.47	-47.52
13-Aug-2007	08:00:00	-30.70	-40.24	-52.32	-30.16	-47.02	-50.47	-48.94
13-Aug-2007	20:00:00	-31.35	-40.53	-52.30	-30.43	-47.02	-50.47	-49.79

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
14-Aug-2007	08:00:00	-31.97	-40.87	-52.31	-30.72	-47.02	-50.47	-49.79
14-Aug-2007	20:00:00	-32.57	-41.20	-52.32	-31.02	-47.02	-50.47	-49.79
15-Aug-2007	08:00:00	-33.12	-41.59	-52.32	-31.33	-47.01	-50.47	-49.80
15-Aug-2007	20:00:00	-33.58	-41.91	-52.31	-31.61	-47.03	-50.47	-49.80
16-Aug-2007	08:00:00	-34.00	-42.23	-52.31	-31.88	-47.02	-50.46	-49.80
16-Aug-2007	20:00:00	-34.41	-42.52	-52.32	-32.06	-47.00	-50.45	-49.79
17-Aug-2007	08:00:00	-34.84	-42.83	-52.32	-32.22	-47.02	-50.46	-48.22
17-Aug-2007	20:00:00	-35.16	-43.05	-52.32	-32.32	-47.02	-50.46	-49.74
18-Aug-2007	08:00:00	-35.89	-43.45	-52.32	-32.67	-47.03	-50.47	-49.77
18-Aug-2007	20:00:00	-36.47	-43.78	-52.31	-33.04	-47.03	-50.47	-49.76
19-Aug-2007	08:00:00	-36.89	-44.13	-52.33	-33.35	-47.01	-50.47	-49.78
19-Aug-2007	20:00:00	-37.13	-44.47	-52.32	-33.52	-47.01	-50.47	-49.76
20-Aug-2007	08:00:00	-37.44	-44.82	-52.32	-33.73	-47.02	-50.47	-49.78
20-Aug-2007	20:00:00	-37.64	-45.13	-52.31	-33.84	-47.01	-50.47	-49.77
21-Aug-2007	08:00:00	-37.91	-45.44	-52.32	-33.99	-47.02	-50.47	-49.79
21-Aug-2007	20:00:00	-38.14	-45.60	-52.32	-34.10	-47.02	-50.48	-49.78
22-Aug-2007	08:00:00	-38.33	-45.78	-52.31	-34.21	-47.02	-50.47	-49.81
22-Aug-2007	20:00:00	-38.54	-45.99	-52.31	-34.34	-47.01	-50.47	-49.80
23-Aug-2007	08:00:00	-38.79	-46.19	-52.32	-34.52	-47.02	-50.47	-49.81
23-Aug-2007	20:00:00	-39.04	-45.82	-52.30	-34.65	-47.02	-50.46	-49.79
24-Aug-2007	08:00:00	-39.26	-45.81	-52.33	-34.85	-47.02	-50.48	-49.79
24-Aug-2007	20:00:00	-39.38	-45.82	-52.31	-34.98	-47.02	-50.46	-49.79
25-Aug-2007	08:00:00	-39.54	-45.82	-52.32	-35.10	-47.03	-50.47	-49.79
25-Aug-2007	20:00:00	-39.61	-45.83	-52.31	-35.16	-47.03	-50.47	-49.79
26-Aug-2007	08:00:00	-39.79	-45.82	-52.32	-35.26	-47.02	-50.47	-49.80
26-Aug-2007	20:00:00	-39.95	-45.82	-52.32	-35.42	-47.03	-50.47	-49.79
27-Aug-2007	08:00:00	-40.20	-45.82	-52.32	-35.66	-47.03	-50.46	-49.79
27-Aug-2007	20:00:00	-40.44	-45.81	-52.32	-35.99	-47.02	-50.47	-49.80
28-Aug-2007	08:00:00	-40.71	-45.82	-52.32	-36.42	-47.02	-50.46	-49.79
28-Aug-2007	20:00:00	-41.04	-45.81	-52.31	-36.68	-47.03	-50.47	-49.79
29-Aug-2007	08:00:00	-41.28	-45.81	-52.33	-36.98	-47.02	-50.46	-49.80
29-Aug-2007	20:00:00	-41.42	-45.82	-52.31	-37.11	-47.03	-50.46	-49.80
30-Aug-2007	08:00:00	-41.59	-45.82	-52.33	-37.24	-47.03	-50.48	-49.80
30-Aug-2007	20:00:00	-41.67	-45.81	-52.32	-37.29	-47.02	-50.46	-49.80
31-Aug-2007	08:00:00	-41.85	-45.82	-52.33	-37.44	-47.02	-50.47	-49.80
31-Aug-2007	20:00:00	-42.03	-45.82	-52.31	-37.61	-47.03	-50.49	-49.79
1-Sep-2007	08:00:00	-42.33	-45.82	-52.33	-37.90	-47.03	-50.47	-49.80
1-Sep-2007	20:00:00	-42.59	-45.81	-52.32	-38.18	-47.03	-50.47	-49.80
2-Sep-2007	08:00:00	-42.92	-45.80	-52.33	-38.47	-47.03	-50.47	-49.81
2-Sep-2007	20:00:00	-43.16	-45.82	-52.33	-38.65	-47.03	-50.47	-49.79
3-Sep-2007	08:00:00	-43.42	-45.81	-52.33	-38.78	-47.03	-50.48	-49.80
3-Sep-2007	20:00:00	-43.46	-45.82	-52.32	-38.81	-47.03	-50.47	-49.79
4-Sep-2007	08:00:00	-43.71	-45.82	-52.33	-38.93	-47.03	-50.47	-49.79
4-Sep-2007	20:00:00	-43.84	-45.82	-52.32	-39.03	-47.02	-50.48	-49.79
5-Sep-2007	08:00:00	-44.10	-45.81	-52.33	-39.21	-47.03	-50.47	-49.78
5-Sep-2007	20:00:00	-44.27	-45.81	-52.33	-39.34	-47.04	-50.48	-49.79
6-Sep-2007	08:00:00	-44.49	-45.82	-52.32	-39.60	-47.03	-50.48	-49.79
6-Sep-2007	20:00:00	-44.66	-45.81	-52.32	-39.71	-47.04	-50.48	-49.79
7-Sep-2007	08:00:00	-44.86	-45.81	-52.32	-39.80	-47.04	-50.48	-49.80
7-Sep-2007	20:00:00	-44.96	-45.82	-52.32	-39.80	-47.04	-50.47	-49.80

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
8-Sep-2007	08:00:00	-45.07	-45.81	-52.34	-39.91	-47.03	-50.48	-49.80
8-Sep-2007	20:00:00	-45.12	-45.82	-52.31	-39.95	-47.04	-50.48	-49.79
9-Sep-2007	08:00:00	-45.22	-45.82	-52.33	-40.02	-47.02	-50.48	-49.79
9-Sep-2007	20:00:00	-45.22	-45.82	-52.32	-40.05	-47.05	-50.48	-49.80
10-Sep-2007	08:00:00	-45.12	-45.81	-52.34	-40.28	-47.02	-50.48	-49.79
10-Sep-2007	20:00:00	-45.11	-45.81	-52.33	-40.36	-47.03	-50.47	-49.79
11-Sep-2007	08:00:00	-45.11	-45.82	-52.33	-40.47	-47.03	-50.47	-49.79
11-Sep-2007	20:00:00	-45.12	-45.82	-52.32	-40.51	-47.03	-50.48	-49.79
12-Sep-2007	08:00:00	-45.11	-45.81	-52.32	-40.74	-47.03	-50.47	-49.79
12-Sep-2007	20:00:00	-45.11	-45.83	-52.33	-40.92	-47.04	-50.48	-49.79
13-Sep-2007	08:00:00	-45.12	-45.81	-52.33	-41.12	-47.03	-50.48	-49.79
13-Sep-2007	20:00:00	-45.10	-45.82	-52.33	-41.23	-47.04	-50.47	-49.79
14-Sep-2007	08:00:00	-45.11	-45.81	-52.33	-41.38	-47.03	-50.47	-49.80
14-Sep-2007	20:00:00	-45.12	-45.81	-52.33	-41.37	-47.04	-50.47	-49.79
15-Sep-2007	08:00:00	-42.35	-45.81	-52.34	-41.52	-47.04	-50.49	-49.79
15-Sep-2007	20:00:00	-43.92	-45.83	-52.33	-41.75	-47.03	-50.48	-49.79
16-Sep-2007	08:00:00	-44.88	-45.81	-52.35	-42.06	-47.04	-50.48	-49.79
16-Sep-2007	20:00:00	-45.11	-45.81	-52.33	-42.26	-47.03	-50.47	-49.80
17-Sep-2007	08:00:00	-45.13	-45.81	-52.34	-42.54	-47.03	-50.48	-49.79
17-Sep-2007	20:00:00	-45.12	-45.80	-52.32	-42.75	-47.05	-50.48	-49.79
18-Sep-2007	08:00:00	-45.13	-45.80	-52.34	-42.98	-47.04	-50.47	-49.80
18-Sep-2007	20:00:00	-45.13	-45.81	-52.33	-43.15	-47.04	-50.48	-49.80
19-Sep-2007	08:00:00	-45.12	-45.81	-52.33	-43.30	-47.03	-50.47	-49.80
19-Sep-2007	20:00:00	-45.13	-45.81	-52.33	-43.43	-47.03	-50.47	-49.79
20-Sep-2007	08:00:00	-45.13	-45.81	-52.34	-43.55	-47.04	-50.48	-49.80
20-Sep-2007	20:00:00	-45.15	-45.81	-52.34	-43.66	-47.03	-50.47	-49.79
21-Sep-2007	08:00:00	-45.13	-45.80	-52.34	-43.81	-47.03	-50.47	-49.79
21-Sep-2007	20:00:00	-45.14	-45.80	-52.34	-43.91	-47.03	-50.47	-49.79
22-Sep-2007	08:00:00	-45.14	-45.81	-52.34	-44.04	-47.03	-50.47	-49.80
22-Sep-2007	20:00:00	-45.13	-45.81	-52.33	-44.12	-47.03	-50.47	-49.79
23-Sep-2007	08:00:00	-45.15	-45.81	-52.34	-44.28	-47.03	-50.48	-49.79
23-Sep-2007	20:00:00	-45.15	-45.81	-52.33	-44.38	-47.03	-50.48	-49.79
24-Sep-2007	08:00:00	-45.14	-45.80	-52.34	-44.56	-47.03	-50.48	-49.79
24-Sep-2007	20:00:00	-45.14	-45.80	-52.34	-44.59	-47.02	-50.47	-49.79
25-Sep-2007	08:00:00	-45.14	-45.80	-52.35	-44.73	-47.04	-50.48	-49.80
25-Sep-2007	20:00:00	-45.14	-45.79	-52.32	-44.72	-47.03	-50.47	-49.79
26-Sep-2007	08:00:00	-45.14	-45.81	-52.34	-44.85	-47.03	-50.48	-49.79
26-Sep-2007	20:00:00	-45.14	-45.80	-52.34	-44.89	-47.01	-50.47	-49.79
27-Sep-2007	08:00:00	-45.14	-45.80	-52.35	-44.95	-47.03	-50.48	-49.79
27-Sep-2007	20:00:00	-45.13	-45.82	-52.35	-44.89	-47.03	-49.51	-49.78
28-Sep-2007	08:00:00	-45.14	-45.81	-52.35	-45.07	-47.02	-49.51	-49.80
28-Sep-2007	20:00:00	-45.15	-45.80	-52.34	-45.27	-47.04	-49.52	-49.78
29-Sep-2007	08:00:00	-45.15	-45.79	-52.34	-45.60	-47.04	-49.51	-49.79
29-Sep-2007	20:00:00	-45.13	-45.80	-52.34	-45.69	-47.03	-49.52	-49.80
30-Sep-2007	08:00:00	-45.15	-45.80	-52.36	-45.77	-47.02	-49.52	-49.79
30-Sep-2007	20:00:00	-45.14	-45.80	-52.34	-45.86	-47.04	-49.52	-49.78
1-Oct-2007	08:00:00	-45.14	-45.80	-52.36	-45.97	-47.03	-49.52	-49.79
1-Oct-2007	20:00:00	-45.15	-45.79	-52.34	-46.01	-47.04	-49.51	-49.79
2-Oct-2007	08:00:00	-45.15	-45.79	-52.34	-46.11	-47.03	-49.52	-49.80
2-Oct-2007	20:00:00	-45.15	-45.80	-52.35	-46.14	-47.04	-49.52	-49.79



Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
3-Oct-2007	08:00:00	-45.15	-45.80	-52.34	-46.22	-47.02	-49.52	-49.80
3-Oct-2007	20:00:00	-45.15	-45.80	-52.33	-46.27	-47.04	-49.52	-49.80
4-Oct-2007	08:00:00	-45.14	-45.80	-52.34	-46.38	-47.04	-49.51	-49.79
4-Oct-2007	20:00:00	-45.15	-45.79	-52.34	-46.17	-47.03	-49.51	-49.79
5-Oct-2007	08:00:00	-45.15	-45.80	-52.35	-46.16	-47.03	-49.52	-49.79
5-Oct-2007	20:00:00	-45.15	-45.80	-52.34	-46.15	-47.03	-49.52	-49.78
6-Oct-2007	08:00:00	-45.15	-45.80	-52.35	-46.14	-47.02	-49.50	-49.79
6-Oct-2007	20:00:00	-45.15	-45.80	-52.35	-46.15	-47.03	-49.53	-49.78
7-Oct-2007	08:00:00	-45.15	-45.80	-52.34	-46.14	-47.05	-49.51	-49.80
7-Oct-2007	20:00:00	-45.15	-45.79	-52.35	-46.14	-47.03	-49.52	-49.80
8-Oct-2007	08:00:00	-45.16	-45.80	-52.35	-46.14	-47.04	-49.50	-49.79
8-Oct-2007	20:00:00	-45.16	-45.80	-52.35	-46.15	-47.03	-49.52	-49.80
9-Oct-2007	08:00:00	-45.14	-45.79	-52.35	-46.14	-47.03	-49.52	-49.79
9-Oct-2007	20:00:00	-45.15	-45.81	-52.34	-46.14	-47.04	-49.51	-49.79
10-Oct-2007	08:00:00	-45.15	-45.81	-52.34	-46.13	-47.03	-49.51	-49.79
10-Oct-2007	20:00:00	-45.15	-45.81	-52.34	-46.14	-47.04	-49.52	-49.80
11-Oct-2007	08:00:00	-45.15	-45.80	-52.35	-46.14	-47.04	-49.52	-49.80
11-Oct-2007	20:00:00	-45.15	-45.82	-52.35	-46.15	-47.03	-49.52	-49.80
12-Oct-2007	08:00:00	-45.16	-45.81	-52.36	-46.17	-47.03	-49.51	-49.79
12-Oct-2007	20:00:00	-45.15	-45.81	-52.35	-46.17	-47.03	-49.51	-49.79
13-Oct-2007	08:00:00	-45.15	-45.80	-52.35	-46.19	-47.04	-49.52	-49.80
13-Oct-2007	20:00:00	-45.16	-45.80	-52.34	-46.18	-47.04	-49.52	-49.80
14-Oct-2007	08:00:00	-45.15	-45.80	-52.36	-46.19	-47.03	-49.51	-49.81
14-Oct-2007	20:00:00	-45.16	-45.79	-52.35	-46.19	-47.02	-49.50	-49.79
15-Oct-2007	08:00:00	-45.16	-45.80	-52.36	-46.18	-47.03	-49.51	-49.81
15-Oct-2007	20:00:00	-45.17	-45.79	-52.35	-46.19	-47.02	-49.49	-49.79
16-Oct-2007	08:00:00	-45.17	-45.79	-52.36	-46.19	-47.03	-49.52	-49.80
16-Oct-2007	20:00:00	-45.16	-45.80	-52.35	-46.17	-47.03	-49.51	-49.80
17-Oct-2007	08:00:00	-45.18	-45.80	-52.35	-46.19	-47.03	-49.50	-49.81
17-Oct-2007	20:00:00	-45.17	-45.79	-52.34	-46.17	-47.02	-49.50	-49.79
18-Oct-2007	08:00:00	-45.18	-45.79	-52.34	-46.17	-47.03	-49.51	-49.79
18-Oct-2007	20:00:00	-45.17	-45.78	-52.35	-46.18	-47.02	-49.50	-49.80
19-Oct-2007	08:00:00	-45.16	-45.78	-52.35	-46.16	-47.01	-49.50	-49.79
19-Oct-2007	20:00:00	-45.17	-45.78	-52.34	-46.18	-47.01	-49.52	-49.80
20-Oct-2007	08:00:00	-45.18	-45.78	-52.36	-46.18	-47.02	-49.50	-49.80
20-Oct-2007	20:00:00	-45.17	-45.78	-52.35	-46.18	-47.02	-49.51	-49.80
21-Oct-2007	08:00:00	-45.17	-45.78	-52.36	-46.19	-47.02	-49.51	-49.80
21-Oct-2007	20:00:00	-45.17	-45.78	-52.34	-46.19	-47.02	-49.51	-49.81
22-Oct-2007	08:00:00	-45.16	-45.79	-52.36	-46.18	-47.02	-49.51	-49.80
22-Oct-2007	20:00:00	-45.17	-45.77	-52.36	-46.19	-47.02	-49.51	-49.80
23-Oct-2007	08:00:00	-45.17	-45.78	-52.36	-46.17	-47.02	-49.50	-49.79
23-Oct-2007	20:00:00	-45.17	-45.78	-52.35	-46.19	-47.03	-49.51	-49.80
24-Oct-2007	08:00:00	-45.17	-45.80	-52.34	-46.18	-47.03	-49.51	-49.80
24-Oct-2007	20:00:00	-0.65	-45.79	-52.34	-46.17	-37.22	-49.50	-45.17
25-Oct-2007	08:00:00	-0.74	-34.68	-52.34	-7.73	-43.33	-49.51	-39.72
25-Oct-2007	20:00:00	-0.73	-19.89	-52.34	-3.12	-45.10	-49.50	-39.41
26-Oct-2007	08:00:00	-0.89	-14.15	-52.35	-3.06	-46.72	-49.51	-42.41
26-Oct-2007	20:00:00	-0.82	-10.76	-52.34	-2.17	-47.03	-49.51	-39.44
27-Oct-2007	08:00:00	-0.31	-7.92	-52.35	-1.43	-46.25	-49.52	-27.89
27-Oct-2007	20:00:00	-0.72	-7.45	-52.35	-2.20	-47.03	-49.50	-36.49

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
28-Oct-2007	08:00:00	-0.92	-7.94	-52.35	-2.81	-47.06	-49.51	-38.89
28-Oct-2007	20:00:00	-1.13	-8.76	-52.35	-4.06	-47.07	-49.52	-41.18
29-Oct-2007	08:00:00	-1.37	-9.60	-52.36	-4.79	-47.07	-49.52	-42.82
29-Oct-2007	20:00:00	-1.59	-12.46	-52.37	-5.57	-47.06	-49.51	-44.46
30-Oct-2007	08:00:00	-1.84	-15.82	-52.37	-5.68	-47.08	-49.52	-45.79
30-Oct-2007	20:00:00	-2.09	-17.18	-52.35	-6.66	-47.05	-49.51	-46.89
31-Oct-2007	08:00:00	-2.29	-18.82	-52.36	-6.78	-47.05	-49.51	-47.75
31-Oct-2007	20:00:00	-2.61	-19.49	-52.35	-6.70	-47.03	-49.51	-48.66
1-Nov-2007	08:00:00	-3.06	-20.56	-52.36	-6.61	-47.03	-49.51	-49.43
1-Nov-2007	20:00:00	-3.74	-21.24	-52.36	-7.38	-47.02	-49.51	-49.84
2-Nov-2007	08:00:00	-5.16	-22.49	-52.36	-10.63	-47.04	-49.51	-49.81
2-Nov-2007	20:00:00	-8.19	-23.56	-52.35	-12.89	-47.02	-49.49	-49.80
3-Nov-2007	08:00:00	-10.66	-24.37	-52.36	-13.41	-47.01	-49.50	-49.78
3-Nov-2007	20:00:00	-14.44	-25.10	-52.36	-14.07	-47.01	-49.49	-49.79
4-Nov-2007	08:00:00	-16.67	-25.93	-52.36	-15.13	-47.03	-49.50	-49.82
4-Nov-2007	20:00:00	-18.33	-26.57	-52.36	-15.55	-47.02	-49.49	-49.79
5-Nov-2007	08:00:00	-19.98	-27.26	-52.36	-16.41	-47.04	-49.49	-49.81
5-Nov-2007	20:00:00	-21.23	-27.86	-52.36	-16.56	-47.03	-49.49	-49.79
6-Nov-2007	08:00:00	-22.29	-28.32	-52.37	-16.46	-47.01	-49.50	-49.78
6-Nov-2007	20:00:00	-23.47	-28.97	-52.35	-16.93	-47.03	-49.50	-49.80
7-Nov-2007	08:00:00	-24.73	-29.59	-52.36	-17.67	-47.07	-49.49	-49.82
7-Nov-2007	20:00:00	-25.80	-30.09	-52.35	-17.99	-47.05	-49.49	-49.83
8-Nov-2007	08:00:00	-26.87	-30.59	-52.35	-18.60	-47.06	-49.49	-49.84
8-Nov-2007	20:00:00	-27.83	-31.01	-52.36	-18.85	-47.05	-49.50	-49.82
9-Nov-2007	08:00:00	-28.70	-31.44	-52.35	-18.82	-47.05	-49.49	-49.81
9-Nov-2007	20:00:00	-29.43	-31.81	-52.34	-18.22	-47.03	-49.48	-49.80
10-Nov-2007	08:00:00	-30.10	-32.18	-52.35	-15.42	-47.05	-49.48	-49.80
10-Nov-2007	20:00:00	-30.97	-32.67	-52.34	-15.55	-47.05	-49.47	-49.83
11-Nov-2007	08:00:00	-31.92	-33.16	-52.36	-16.89	-47.03	-49.49	-49.85
11-Nov-2007	20:00:00	-32.73	-33.56	-52.35	-17.57	-47.06	-49.48	-49.83
12-Nov-2007	08:00:00	-33.49	-33.91	-52.35	-17.82	-47.04	-49.48	-49.85
12-Nov-2007	20:00:00	-34.16	-34.17	-52.36	-17.84	-47.05	-49.47	-49.83
13-Nov-2007	08:00:00	-34.80	-34.39	-52.34	-17.62	-47.03	-49.48	-49.80
13-Nov-2007	20:00:00							
14-Nov-2007	08:00:00							
14-Nov-2007	20:00:00							
15-Nov-2007	08:00:00							
15-Nov-2007	20:00:00							
16-Nov-2007	08:00:00							
16-Nov-2007	20:00:00							
17-Nov-2007	08:00:00							
17-Nov-2007	20:00:00							
18-Nov-2007	08:00:00							
18-Nov-2007	20:00:00							
19-Nov-2007	08:00:00							
19-Nov-2007	20:00:00							
20-Nov-2007	08:00:00							
20-Nov-2007	20:00:00							
21-Nov-2007	08:00:00							
21-Nov-2007	20:00:00							

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
22-Nov-2007	08:00:00							
22-Nov-2007	20:00:00							
23-Nov-2007	08:00:00							
23-Nov-2007	20:00:00							
24-Nov-2007	08:00:00							
24-Nov-2007	20:00:00							
25-Nov-2007	08:00:00							
25-Nov-2007	20:00:00							
26-Nov-2007	08:00:00							
26-Nov-2007	20:00:00							
27-Nov-2007	08:00:00							
27-Nov-2007	20:00:00							
28-Nov-2007	08:00:00							
28-Nov-2007	20:00:00							
29-Nov-2007	08:00:00							
29-Nov-2007	20:00:00							
30-Nov-2007	08:00:00							
30-Nov-2007	20:00:00							
1-Dec-2007	08:00:00							
1-Dec-2007	20:00:00							
2-Dec-2007	08:00:00							
2-Dec-2007	20:00:00							
3-Dec-2007	08:00:00							
3-Dec-2007	20:00:00							
4-Dec-2007	08:00:00							
4-Dec-2007	20:00:00							
5-Dec-2007	08:00:00							
5-Dec-2007	20:00:00							
6-Dec-2007	08:00:00							
6-Dec-2007	20:00:00							
7-Dec-2007	08:00:00							
7-Dec-2007	20:00:00							
8-Dec-2007	08:00:00							
8-Dec-2007	20:00:00							
9-Dec-2007	08:00:00							
9-Dec-2007	20:00:00							
10-Dec-2007	08:00:00							
10-Dec-2007	20:00:00							
11-Dec-2007	08:00:00							
11-Dec-2007	20:00:00							
12-Dec-2007	08:00:00							
12-Dec-2007	20:00:00							
13-Dec-2007	08:00:00							
13-Dec-2007	20:00:00							
14-Dec-2007	08:00:00							
14-Dec-2007	20:00:00							
15-Dec-2007	08:00:00							
15-Dec-2007	20:00:00							
16-Dec-2007	08:00:00							
16-Dec-2007	20:00:00							

Date	Time							
dd-mmm-yyyy	hh:mm:ss	AW9	AW10	AW11	AW12	REF AW1	REF AW2	REF AW3
17-Dec-2007	08:00:00							
17-Dec-2007	20:00:00							
18-Dec-2007	08:00:00							
18-Dec-2007	20:00:00							
19-Dec-2007	08:00:00							
19-Dec-2007	20:00:00							
20-Dec-2007	08:00:00							
20-Dec-2007	20:00:00							
21-Dec-2007	08:00:00							
21-Dec-2007	20:00:00							
22-Dec-2007	08:00:00							
22-Dec-2007	20:00:00							
23-Dec-2007	08:00:00							
23-Dec-2007	20:00:00							
24-Dec-2007	08:00:00							
24-Dec-2007	20:00:00							
25-Dec-2007	08:00:00							
25-Dec-2007	20:00:00							
26-Dec-2007	08:00:00							
26-Dec-2007	20:00:00							
27-Dec-2007	08:00:00							
27-Dec-2007	20:00:00							
28-Dec-2007	08:00:00							
28-Dec-2007	20:00:00							
29-Dec-2007	08:00:00							
29-Dec-2007	20:00:00							
30-Dec-2007	08:00:00							
30-Dec-2007	20:00:00							
31-Dec-2007	08:00:00							
31-Dec-2007	20:00:00							

					Weatherstation Rainfall Data	
Date	Time			On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
dd-mmm-yyyy	hh:mm:ss	CG1	CG2			
1-Jan-2007	08:00:00					7.45
1-Jan-2007	20:00:00				0	
2-Jan-2007	08:00:00					
2-Jan-2007	20:00:00				0.12	
3-Jan-2007	08:00:00					
3-Jan-2007	20:00:00				0	
4-Jan-2007	08:00:00					
4-Jan-2007	20:00:00				0	
5-Jan-2007	08:00:00					
5-Jan-2007	20:00:00				0	
6-Jan-2007	08:00:00					
6-Jan-2007	20:00:00				0.52	
7-Jan-2007	08:00:00					
7-Jan-2007	20:00:00				0	
8-Jan-2007	08:00:00					
8-Jan-2007	20:00:00				0.32	
9-Jan-2007	08:00:00					
9-Jan-2007	20:00:00				0	
10-Jan-2007	08:00:00					
10-Jan-2007	20:00:00				0.13	
11-Jan-2007	08:00:00					
11-Jan-2007	20:00:00				0	
12-Jan-2007	08:00:00					
12-Jan-2007	20:00:00				0	
13-Jan-2007	08:00:00					
13-Jan-2007	20:00:00				0	
14-Jan-2007	08:00:00					
14-Jan-2007	20:00:00				0	
15-Jan-2007	08:00:00					
15-Jan-2007	20:00:00				0	
16-Jan-2007	08:00:00					
16-Jan-2007	20:00:00				0	
17-Jan-2007	08:00:00					
17-Jan-2007	20:00:00				0.02	
18-Jan-2007	08:00:00					
18-Jan-2007	20:00:00				0.07	
19-Jan-2007	08:00:00					
19-Jan-2007	20:00:00				0.26	
20-Jan-2007	08:00:00					
20-Jan-2007	20:00:00				0	
21-Jan-2007	08:00:00					
21-Jan-2007	20:00:00				0	
22-Jan-2007	08:00:00					
22-Jan-2007	20:00:00				1.17	
23-Jan-2007	08:00:00					
23-Jan-2007	20:00:00				0	
24-Jan-2007	08:00:00					
24-Jan-2007	20:00:00				0	
25-Jan-2007	08:00:00					
25-Jan-2007	20:00:00				0	

					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
26-Jan-2007	08:00:00					
26-Jan-2007	20:00:00				0	
27-Jan-2007	08:00:00					
27-Jan-2007	20:00:00				0	
28-Jan-2007	08:00:00					
28-Jan-2007	20:00:00				0	
29-Jan-2007	08:00:00					
29-Jan-2007	20:00:00				0	
30-Jan-2007	08:00:00					
30-Jan-2007	20:00:00				0	
31-Jan-2007	08:00:00					
31-Jan-2007	20:00:00				0	2.61
1-Feb-2007	08:00:00					
1-Feb-2007	20:00:00				0	
2-Feb-2007	08:00:00					
2-Feb-2007	20:00:00				0.36	
3-Feb-2007	08:00:00					
3-Feb-2007	20:00:00				0	
4-Feb-2007	08:00:00					
4-Feb-2007	20:00:00				0	
5-Feb-2007	08:00:00					
5-Feb-2007	20:00:00				0	
6-Feb-2007	08:00:00					
6-Feb-2007	20:00:00				0	
7-Feb-2007	08:00:00					
7-Feb-2007	20:00:00				0	
8-Feb-2007	08:00:00					
8-Feb-2007	20:00:00				0	
9-Feb-2007	08:00:00					
9-Feb-2007	20:00:00				0	
10-Feb-2007	08:00:00					
10-Feb-2007	20:00:00				0	
11-Feb-2007	08:00:00					
11-Feb-2007	20:00:00				0	
12-Feb-2007	08:00:00					
12-Feb-2007	20:00:00				0	
13-Feb-2007	08:00:00					
13-Feb-2007	20:00:00				0	
14-Feb-2007	08:00:00					
14-Feb-2007	20:00:00				1.27	
15-Feb-2007	08:00:00					
15-Feb-2007	20:00:00				0	
16-Feb-2007	08:00:00					
16-Feb-2007	20:00:00				0	
17-Feb-2007	08:00:00					
17-Feb-2007	20:00:00				0	
18-Feb-2007	08:00:00					
18-Feb-2007	20:00:00				0	
19-Feb-2007	08:00:00					
19-Feb-2007	20:00:00				0	

					Weatherstation Rainfall Data	
Date	Time			On-site Rain gauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
dd-mmm-yyyy	hh:mm:ss	CG1	CG2			
20-Feb-2007	08:00:00					
20-Feb-2007	20:00:00				0	
21-Feb-2007	08:00:00					
21-Feb-2007	20:00:00				0	
22-Feb-2007	08:00:00					
22-Feb-2007	20:00:00				0.33	
23-Feb-2007	08:00:00					
23-Feb-2007	20:00:00				0	
24-Feb-2007	08:00:00					
24-Feb-2007	20:00:00				0	
25-Feb-2007	08:00:00					
25-Feb-2007	20:00:00				0	
26-Feb-2007	08:00:00					
26-Feb-2007	20:00:00				0.51	
27-Feb-2007	08:00:00					
27-Feb-2007	20:00:00				0	
28-Feb-2007	08:00:00					
28-Feb-2007	20:00:00				0	2.47
1-Mar-2007	08:00:00					
1-Mar-2007	20:00:00				0	
2-Mar-2007	08:00:00					
2-Mar-2007	20:00:00				0.99	
3-Mar-2007	08:00:00					
3-Mar-2007	20:00:00				0	
4-Mar-2007	08:00:00					
4-Mar-2007	20:00:00				0	
5-Mar-2007	08:00:00					
5-Mar-2007	20:00:00				0	
6-Mar-2007	08:00:00					
6-Mar-2007	20:00:00				0	
7-Mar-2007	08:00:00					
7-Mar-2007	20:00:00				0	
8-Mar-2007	08:00:00					
8-Mar-2007	20:00:00				0	
9-Mar-2007	08:00:00					
9-Mar-2007	20:00:00				0	
10-Mar-2007	08:00:00					
10-Mar-2007	20:00:00				0	
11-Mar-2007	08:00:00					
11-Mar-2007	20:00:00				0	
12-Mar-2007	08:00:00					
12-Mar-2007	20:00:00				0	
13-Mar-2007	08:00:00					
13-Mar-2007	20:00:00				0	
14-Mar-2007	08:00:00					
14-Mar-2007	20:00:00				0	
15-Mar-2007	08:00:00					
15-Mar-2007	20:00:00				0	
16-Mar-2007	08:00:00					
16-Mar-2007	20:00:00				0.2	



					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
17-Mar-2007	08:00:00					
17-Mar-2007	20:00:00				0.95	
18-Mar-2007	08:00:00					
18-Mar-2007	20:00:00				0	
19-Mar-2007	08:00:00					
19-Mar-2007	20:00:00				0	
20-Mar-2007	08:00:00					
20-Mar-2007	20:00:00				0	
21-Mar-2007	08:00:00					
21-Mar-2007	20:00:00				0	
22-Mar-2007	08:00:00					
22-Mar-2007	20:00:00				0	
23-Mar-2007	08:00:00					
23-Mar-2007	20:00:00				0	
24-Mar-2007	08:00:00					
24-Mar-2007	20:00:00				0	
25-Mar-2007	08:00:00					
25-Mar-2007	20:00:00				0	
26-Mar-2007	08:00:00					
26-Mar-2007	20:00:00				0	
27-Mar-2007	08:00:00					
27-Mar-2007	20:00:00				0	
28-Mar-2007	08:00:00	0.00	0.00	0.91		
28-Mar-2007	20:00:00				0	
29-Mar-2007	08:00:00					
29-Mar-2007	20:00:00				0.58	
30-Mar-2007	08:00:00					
30-Mar-2007	20:00:00				0	
31-Mar-2007	08:00:00					
31-Mar-2007	20:00:00				0	2.72
1-Apr-2007	08:00:00					
1-Apr-2007	20:00:00				0	
2-Apr-2007	08:00:00					
2-Apr-2007	20:00:00				0	
3-Apr-2007	08:00:00					
3-Apr-2007	20:00:00				0	
4-Apr-2007	08:00:00					
4-Apr-2007	20:00:00				0	
5-Apr-2007	08:00:00					
5-Apr-2007	20:00:00				0	
6-Apr-2007	08:00:00					
6-Apr-2007	20:00:00				0	
7-Apr-2007	08:00:00					
7-Apr-2007	20:00:00				0.16	
8-Apr-2007	08:00:00					
8-Apr-2007	20:00:00				0.03	
9-Apr-2007	08:00:00					
9-Apr-2007	20:00:00				0	
10-Apr-2007	08:00:00					
10-Apr-2007	20:00:00				0	

					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
11-Apr-2007	08:00:00					
11-Apr-2007	20:00:00				0	
12-Apr-2007	08:00:00					
12-Apr-2007	20:00:00				0.35	
13-Apr-2007	08:00:00					
13-Apr-2007	20:00:00				0	
14-Apr-2007	08:00:00					
14-Apr-2007	20:00:00				0	
15-Apr-2007	08:00:00					
15-Apr-2007	20:00:00				0.32	
16-Apr-2007	08:00:00					
16-Apr-2007	20:00:00				1.08	
17-Apr-2007	08:00:00					
17-Apr-2007	20:00:00				0	
18-Apr-2007	08:00:00					
18-Apr-2007	20:00:00				0	
19-Apr-2007	08:00:00					
19-Apr-2007	20:00:00				0	
20-Apr-2007	08:00:00					
20-Apr-2007	20:00:00				0	
21-Apr-2007	08:00:00					
21-Apr-2007	20:00:00				0	
22-Apr-2007	08:00:00					
22-Apr-2007	20:00:00				0	
23-Apr-2007	08:00:00					
23-Apr-2007	20:00:00				0	
24-Apr-2007	08:00:00					
24-Apr-2007	20:00:00				0	
25-Apr-2007	08:00:00	0.55	1.40	0		
25-Apr-2007	20:00:00				0	
26-Apr-2007	08:00:00					
26-Apr-2007	20:00:00				0	
27-Apr-2007	08:00:00					
27-Apr-2007	20:00:00				0	
28-Apr-2007	08:00:00					
28-Apr-2007	20:00:00				0.27	
29-Apr-2007	08:00:00					
29-Apr-2007	20:00:00				0.01	
30-Apr-2007	08:00:00					
30-Apr-2007	20:00:00				0	2.22
1-May-2007	08:00:00					
1-May-2007	20:00:00				0	
2-May-2007	08:00:00					
2-May-2007	20:00:00				0	
3-May-2007	08:00:00					
3-May-2007	20:00:00				0	
4-May-2007	08:00:00					
4-May-2007	20:00:00				0.09	
5-May-2007	08:00:00					
5-May-2007	20:00:00				0.02	

					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
6-May-2007	08:00:00					
6-May-2007	20:00:00				0.38	
7-May-2007	08:00:00					
7-May-2007	20:00:00				0	
8-May-2007	08:00:00					
8-May-2007	20:00:00				0	
9-May-2007	08:00:00					
9-May-2007	20:00:00				0.08	
10-May-2007	08:00:00					
10-May-2007	20:00:00				0.38	
11-May-2007	08:00:00					
11-May-2007	20:00:00				0	
12-May-2007	08:00:00					
12-May-2007	20:00:00				0.04	
13-May-2007	08:00:00					
13-May-2007	20:00:00				0.75	
14-May-2007	08:00:00					
14-May-2007	20:00:00				0	
15-May-2007	08:00:00					
15-May-2007	20:00:00				0	
16-May-2007	08:00:00					
16-May-2007	20:00:00				0	
17-May-2007	08:00:00					
17-May-2007	20:00:00				0.67	
18-May-2007	08:00:00					
18-May-2007	20:00:00				0	
19-May-2007	08:00:00					
19-May-2007	20:00:00				0.06	
20-May-2007	08:00:00					
20-May-2007	20:00:00				0	
21-May-2007	08:00:00					
21-May-2007	20:00:00				0	
22-May-2007	08:00:00	0.00	2.70	1.9		
22-May-2007	20:00:00				0.12	
23-May-2007	08:00:00					
23-May-2007	20:00:00				0	
24-May-2007	08:00:00					
24-May-2007	20:00:00				0	
25-May-2007	08:00:00					
25-May-2007	20:00:00				0	
26-May-2007	08:00:00					
26-May-2007	20:00:00				0	
27-May-2007	08:00:00					
27-May-2007	20:00:00				0	
28-May-2007	08:00:00					
28-May-2007	20:00:00				0	
29-May-2007	08:00:00					
29-May-2007	20:00:00				0	
30-May-2007	08:00:00					
30-May-2007	20:00:00				0	

					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
31-May-2007	08:00:00					
31-May-2007	20:00:00				0	2.59
1-Jun-2007	08:00:00					
1-Jun-2007	20:00:00				0	
2-Jun-2007	08:00:00					
2-Jun-2007	20:00:00				0	
3-Jun-2007	08:00:00					
3-Jun-2007	20:00:00				1.49	
4-Jun-2007	08:00:00					
4-Jun-2007	20:00:00				1.16	
5-Jun-2007	08:00:00					
5-Jun-2007	20:00:00				0.09	
6-Jun-2007	08:00:00					
6-Jun-2007	20:00:00				0.27	
7-Jun-2007	08:00:00					
7-Jun-2007	20:00:00				0	
8-Jun-2007	08:00:00					
8-Jun-2007	20:00:00				0	
9-Jun-2007	08:00:00					
9-Jun-2007	20:00:00				0	
10-Jun-2007	08:00:00					
10-Jun-2007	20:00:00				0	
11-Jun-2007	08:00:00					
11-Jun-2007	20:00:00				0	
12-Jun-2007	08:00:00					
12-Jun-2007	20:00:00				0	
13-Jun-2007	08:00:00					
13-Jun-2007	20:00:00				0	
14-Jun-2007	08:00:00					
14-Jun-2007	20:00:00				0.01	
15-Jun-2007	08:00:00					
15-Jun-2007	20:00:00				0.05	
16-Jun-2007	08:00:00					
16-Jun-2007	20:00:00				0.04	
17-Jun-2007	08:00:00					
17-Jun-2007	20:00:00				0.19	
18-Jun-2007	08:00:00					
18-Jun-2007	20:00:00				0	
19-Jun-2007	08:00:00					
19-Jun-2007	20:00:00				0	
20-Jun-2007	08:00:00					
20-Jun-2007	20:00:00				0	
21-Jun-2007	08:00:00					
21-Jun-2007	20:00:00				0.05	
22-Jun-2007	08:00:00					
22-Jun-2007	20:00:00				0	
23-Jun-2007	08:00:00					
23-Jun-2007	20:00:00				0	
24-Jun-2007	08:00:00					
24-Jun-2007	20:00:00				0	

					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Rain gauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
25-Jun-2007	08:00:00					
25-Jun-2007	20:00:00				0	
26-Jun-2007	08:00:00					
26-Jun-2007	20:00:00				0	
27-Jun-2007	08:00:00					
27-Jun-2007	20:00:00				0	
28-Jun-2007	08:00:00					
28-Jun-2007	20:00:00	0	0	0.5	0	
29-Jun-2007	08:00:00					
29-Jun-2007	20:00:00				1.12	
30-Jun-2007	08:00:00					
30-Jun-2007	20:00:00				0	4.47
1-Jul-2007	08:00:00					
1-Jul-2007	20:00:00				0	
2-Jul-2007	08:00:00					
2-Jul-2007	20:00:00				0	
3-Jul-2007	08:00:00					
3-Jul-2007	20:00:00				0	
4-Jul-2007	08:00:00					
4-Jul-2007	20:00:00				0	
5-Jul-2007	08:00:00					
5-Jul-2007	20:00:00				0	
6-Jul-2007	08:00:00					
6-Jul-2007	20:00:00				0	
7-Jul-2007	08:00:00					
7-Jul-2007	20:00:00				0	
8-Jul-2007	08:00:00					
8-Jul-2007	20:00:00				0	
9-Jul-2007	08:00:00					
9-Jul-2007	20:00:00				0	
10-Jul-2007	08:00:00					
10-Jul-2007	20:00:00				0	
11-Jul-2007	08:00:00					
11-Jul-2007	20:00:00				0.48	
12-Jul-2007	08:00:00					
12-Jul-2007	20:00:00				1.37	
13-Jul-2007	08:00:00					
13-Jul-2007	20:00:00				0	
14-Jul-2007	08:00:00					
14-Jul-2007	20:00:00				0.11	
15-Jul-2007	08:00:00					
15-Jul-2007	20:00:00				0	
16-Jul-2007	08:00:00					
16-Jul-2007	20:00:00				0	
17-Jul-2007	08:00:00					
17-Jul-2007	20:00:00				0	
18-Jul-2007	08:00:00					
18-Jul-2007	20:00:00				1.95	
19-Jul-2007	08:00:00					
19-Jul-2007	20:00:00				0	

					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
20-Jul-2007	08:00:00					
20-Jul-2007	20:00:00				0	
21-Jul-2007	08:00:00					
21-Jul-2007	20:00:00				0	
22-Jul-2007	08:00:00					
22-Jul-2007	20:00:00				0	
23-Jul-2007	08:00:00					
23-Jul-2007	20:00:00				0	
24-Jul-2007	08:00:00					
24-Jul-2007	20:00:00				0	
25-Jul-2007	08:00:00					
25-Jul-2007	20:00:00	0	0	0	0	
26-Jul-2007	08:00:00					
26-Jul-2007	20:00:00				0	
27-Jul-2007	08:00:00					
27-Jul-2007	20:00:00				0	
28-Jul-2007	08:00:00					
28-Jul-2007	20:00:00				0	
29-Jul-2007	08:00:00					
29-Jul-2007	20:00:00				0	
30-Jul-2007	08:00:00					
30-Jul-2007	20:00:00				0.12	
31-Jul-2007	08:00:00					
31-Jul-2007	20:00:00				0	4.03
1-Aug-2007	08:00:00					
1-Aug-2007	20:00:00				0.09	
2-Aug-2007	08:00:00					
2-Aug-2007	20:00:00				0	
3-Aug-2007	08:00:00					
3-Aug-2007	20:00:00				0	
4-Aug-2007	08:00:00					
4-Aug-2007	20:00:00				0	
5-Aug-2007	08:00:00					
5-Aug-2007	20:00:00				0	
6-Aug-2007	08:00:00					
6-Aug-2007	20:00:00				0	
7-Aug-2007	08:00:00					
7-Aug-2007	20:00:00				0	
8-Aug-2007	08:00:00					
8-Aug-2007	20:00:00				0	
9-Aug-2007	08:00:00					
9-Aug-2007	20:00:00				0	
10-Aug-2007	08:00:00					
10-Aug-2007	20:00:00				0.22	
11-Aug-2007	08:00:00					
11-Aug-2007	20:00:00				0.41	
12-Aug-2007	08:00:00					
12-Aug-2007	20:00:00				0	
13-Aug-2007	08:00:00					
13-Aug-2007	20:00:00				0	

					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
14-Aug-2007	08:00:00					
14-Aug-2007	20:00:00				0	
15-Aug-2007	08:00:00					
15-Aug-2007	20:00:00				0	
16-Aug-2007	08:00:00					
16-Aug-2007	20:00:00				0	
17-Aug-2007	08:00:00					
17-Aug-2007	20:00:00				0.03	
18-Aug-2007	08:00:00					
18-Aug-2007	20:00:00				0.02	
19-Aug-2007	08:00:00					
19-Aug-2007	20:00:00				0	
20-Aug-2007	08:00:00					
20-Aug-2007	20:00:00				0	
21-Aug-2007	08:00:00					
21-Aug-2007	20:00:00				0	
22-Aug-2007	08:00:00					
22-Aug-2007	20:00:00				0.17	
23-Aug-2007	08:00:00					
23-Aug-2007	20:00:00				0	
24-Aug-2007	08:00:00					
24-Aug-2007	20:00:00				0.34	
25-Aug-2007	08:00:00					
25-Aug-2007	20:00:00				0	
26-Aug-2007	08:00:00					
26-Aug-2007	20:00:00				0	
27-Aug-2007	08:00:00					
27-Aug-2007	20:00:00	0	0	0.23	0.17	
28-Aug-2007	08:00:00					
28-Aug-2007	20:00:00				0	
29-Aug-2007	08:00:00					
29-Aug-2007	20:00:00				0	
30-Aug-2007	08:00:00					
30-Aug-2007	20:00:00				0	
31-Aug-2007	08:00:00					
31-Aug-2007	20:00:00				0	1.45
1-Sep-2007	08:00:00					
1-Sep-2007	20:00:00					
2-Sep-2007	08:00:00					
2-Sep-2007	20:00:00				0	
3-Sep-2007	08:00:00					
3-Sep-2007	20:00:00				0	
4-Sep-2007	08:00:00					
4-Sep-2007	20:00:00				0	
5-Sep-2007	08:00:00					
5-Sep-2007	20:00:00				0	
6-Sep-2007	08:00:00					
6-Sep-2007	20:00:00					
7-Sep-2007	08:00:00					
7-Sep-2007	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-Sep-2007	08:00:00					
8-Sep-2007	20:00:00					
9-Sep-2007	08:00:00					
9-Sep-2007	20:00:00				0	
10-Sep-2007	08:00:00					
10-Sep-2007	20:00:00					
11-Sep-2007	08:00:00					
11-Sep-2007	20:00:00				0	
12-Sep-2007	08:00:00					
12-Sep-2007	20:00:00				0	
13-Sep-2007	08:00:00					
13-Sep-2007	20:00:00				0	
14-Sep-2007	08:00:00					
14-Sep-2007	20:00:00				0	
15-Sep-2007	08:00:00					
15-Sep-2007	20:00:00				1.16	
16-Sep-2007	08:00:00					
16-Sep-2007	20:00:00				0	
17-Sep-2007	08:00:00					
17-Sep-2007	20:00:00				0	
18-Sep-2007	08:00:00					
18-Sep-2007	20:00:00				0	
19-Sep-2007	08:00:00					
19-Sep-2007	20:00:00				0	
20-Sep-2007	08:00:00					
20-Sep-2007	20:00:00				0	
21-Sep-2007	08:00:00					
21-Sep-2007	20:00:00				0.22	
22-Sep-2007	08:00:00					
22-Sep-2007	20:00:00				0	
23-Sep-2007	08:00:00					
23-Sep-2007	20:00:00				0	
24-Sep-2007	08:00:00					
24-Sep-2007	20:00:00				0	
25-Sep-2007	08:00:00					
25-Sep-2007	20:00:00					
26-Sep-2007	08:00:00					
26-Sep-2007	20:00:00					
27-Sep-2007	08:00:00				0	
27-Sep-2007	20:00:00	0	0	1.15		
28-Sep-2007	08:00:00					
28-Sep-2007	20:00:00					
29-Sep-2007	08:00:00				0	
29-Sep-2007	20:00:00					
30-Sep-2007	08:00:00				0	
30-Sep-2007	20:00:00					1.38
1-Oct-2007	08:00:00				0	
1-Oct-2007	20:00:00					
2-Oct-2007	08:00:00				0	
2-Oct-2007	20:00:00					



					Weatherstation Rainfall Data	
Date	Time			On-site Rain gauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
dd-mmm-yyyy	hh:mm:ss	CG1	CG2			
3-Oct-2007	08:00:00				0	
3-Oct-2007	20:00:00					
4-Oct-2007	08:00:00				0	
4-Oct-2007	20:00:00					
5-Oct-2007	08:00:00				0	
5-Oct-2007	20:00:00					
6-Oct-2007	08:00:00				0	
6-Oct-2007	20:00:00					
7-Oct-2007	08:00:00				0	
7-Oct-2007	20:00:00					
8-Oct-2007	08:00:00				0	
8-Oct-2007	20:00:00					
9-Oct-2007	08:00:00				0	
9-Oct-2007	20:00:00					
10-Oct-2007	08:00:00				0	
10-Oct-2007	20:00:00					
11-Oct-2007	08:00:00				0	
11-Oct-2007	20:00:00					
12-Oct-2007	08:00:00				0	
12-Oct-2007	20:00:00					
13-Oct-2007	08:00:00				0	
13-Oct-2007	20:00:00					
14-Oct-2007	08:00:00				0	
14-Oct-2007	20:00:00					
15-Oct-2007	08:00:00				0	
15-Oct-2007	20:00:00					
16-Oct-2007	08:00:00				0	
16-Oct-2007	20:00:00					
17-Oct-2007	08:00:00				0	
17-Oct-2007	20:00:00					
18-Oct-2007	08:00:00				0	
18-Oct-2007	20:00:00					
19-Oct-2007	08:00:00				0	
19-Oct-2007	20:00:00					
20-Oct-2007	08:00:00				0	
20-Oct-2007	20:00:00					
21-Oct-2007	08:00:00				0	
21-Oct-2007	20:00:00					
22-Oct-2007	08:00:00				0	
22-Oct-2007	20:00:00					
23-Oct-2007	08:00:00	0	0	0.4	0	
23-Oct-2007	20:00:00					
24-Oct-2007	08:00:00				0	
24-Oct-2007	20:00:00					
25-Oct-2007	08:00:00				0	
25-Oct-2007	20:00:00					
26-Oct-2007	08:00:00				0	
26-Oct-2007	20:00:00					
27-Oct-2007	08:00:00				0	
27-Oct-2007	20:00:00					

					Weatherstation Rainfall Data	
Date	Time					
dd-mmm-yyyy	hh:mm:ss	CG1	CG2	On-site Rain gauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
28-Oct-2007	08:00:00				0	
28-Oct-2007	20:00:00					
29-Oct-2007	08:00:00				0	
29-Oct-2007	20:00:00					
30-Oct-2007	08:00:00				0	
30-Oct-2007	20:00:00					
31-Oct-2007	08:00:00				0	
31-Oct-2007	20:00:00					0
1-Nov-2007	08:00:00				0	
1-Nov-2007	20:00:00					
2-Nov-2007	08:00:00				0	
2-Nov-2007	20:00:00					
3-Nov-2007	08:00:00				0	
3-Nov-2007	20:00:00					
4-Nov-2007	08:00:00				0	
4-Nov-2007	20:00:00					
5-Nov-2007	08:00:00				0	
5-Nov-2007	20:00:00					
6-Nov-2007	08:00:00				0	
6-Nov-2007	20:00:00					
7-Nov-2007	08:00:00				0	
7-Nov-2007	20:00:00					
8-Nov-2007	08:00:00				0	
8-Nov-2007	20:00:00					
9-Nov-2007	08:00:00				0	
9-Nov-2007	20:00:00					
10-Nov-2007	08:00:00				0	
10-Nov-2007	20:00:00					
11-Nov-2007	08:00:00				0	
11-Nov-2007	20:00:00					
12-Nov-2007	08:00:00				0	
12-Nov-2007	20:00:00					
13-Nov-2007	08:00:00	0	0.3	3.16	0	
13-Nov-2007	20:00:00					
14-Nov-2007	08:00:00				0	
14-Nov-2007	20:00:00					
15-Nov-2007	08:00:00				0	
15-Nov-2007	20:00:00					
16-Nov-2007	08:00:00				0.45	
16-Nov-2007	20:00:00					
17-Nov-2007	08:00:00				0	
17-Nov-2007	20:00:00					
18-Nov-2007	08:00:00				0	
18-Nov-2007	20:00:00					
19-Nov-2007	08:00:00				0	
19-Nov-2007	20:00:00					
20-Nov-2007	08:00:00				0	
20-Nov-2007	20:00:00					
21-Nov-2007	08:00:00				0	
21-Nov-2007	20:00:00					

					Weatherstation Rainfall Data	
Date	Time			On-site Rain gauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
dd-mmm-yyyy	hh:mm:ss	CG1	CG2			
22-Nov-2007	08:00:00				0	
22-Nov-2007	20:00:00					
23-Nov-2007	08:00:00				0	
23-Nov-2007	20:00:00					
24-Nov-2007	08:00:00				0	
24-Nov-2007	20:00:00					
25-Nov-2007	08:00:00				0.02	
25-Nov-2007	20:00:00					
26-Nov-2007	08:00:00				0.03	
26-Nov-2007	20:00:00					
27-Nov-2007	08:00:00					
27-Nov-2007	20:00:00					
28-Nov-2007	08:00:00					
28-Nov-2007	20:00:00					
29-Nov-2007	08:00:00					
29-Nov-2007	20:00:00					
30-Nov-2007	08:00:00					
30-Nov-2007	20:00:00					0.5
1-Dec-2007	08:00:00					
1-Dec-2007	20:00:00					
2-Dec-2007	08:00:00					
2-Dec-2007	20:00:00					
3-Dec-2007	08:00:00					
3-Dec-2007	20:00:00					
4-Dec-2007	08:00:00					
4-Dec-2007	20:00:00					
5-Dec-2007	08:00:00					
5-Dec-2007	20:00:00					
6-Dec-2007	08:00:00					
6-Dec-2007	20:00:00					
7-Dec-2007	08:00:00					
7-Dec-2007	20:00:00					
8-Dec-2007	08:00:00					
8-Dec-2007	20:00:00					
9-Dec-2007	08:00:00					
9-Dec-2007	20:00:00					
10-Dec-2007	08:00:00					
10-Dec-2007	20:00:00					
11-Dec-2007	08:00:00					
11-Dec-2007	20:00:00					
12-Dec-2007	08:00:00					
12-Dec-2007	20:00:00					
13-Dec-2007	08:00:00					
13-Dec-2007	20:00:00					
14-Dec-2007	08:00:00					
14-Dec-2007	20:00:00					
15-Dec-2007	08:00:00					
15-Dec-2007	20:00:00					
16-Dec-2007	08:00:00					
16-Dec-2007	20:00:00					

					Weatherstation Rainfall Data	
Date	Time			On-site Raingauge	Enfield Daily Rainfall	Enfield Monthly Rainfall
dd-mmm-yyyy	hh:mm:ss	CG1	CG2			
17-Dec-2007	08:00:00					
17-Dec-2007	20:00:00					
18-Dec-2007	08:00:00					
18-Dec-2007	20:00:00					
19-Dec-2007	08:00:00					
19-Dec-2007	20:00:00					
20-Dec-2007	08:00:00					
20-Dec-2007	20:00:00					
21-Dec-2007	08:00:00					
21-Dec-2007	20:00:00					
22-Dec-2007	08:00:00					
22-Dec-2007	20:00:00					
23-Dec-2007	08:00:00					
23-Dec-2007	20:00:00					
24-Dec-2007	08:00:00					
24-Dec-2007	20:00:00					
25-Dec-2007	08:00:00					
25-Dec-2007	20:00:00					
26-Dec-2007	08:00:00					
26-Dec-2007	20:00:00					
27-Dec-2007	08:00:00					
27-Dec-2007	20:00:00					
28-Dec-2007	08:00:00					
28-Dec-2007	20:00:00					
29-Dec-2007	08:00:00					
29-Dec-2007	20:00:00					
30-Dec-2007	08:00:00					
30-Dec-2007	20:00:00					
31-Dec-2007	08:00:00					
31-Dec-2007	20:00:00					

# **APPENDIX D**

## **2007 Site Photos**



STA 48+70, typical side channel found along the reach.



STA 43+30, typical large woody debris found in the channel.





STA 43+25, typical log grade control located at a side channel.



Typical log toe protection structure.





Typical small woody debris structure.



Log grade control and root wad in the bend.





Typical reach conditions and crest gauge.



Typical root wad structure.





Wetland outlet #4, looking downstream.



Wetland outlet #3, looking upstream.





Wetland outlet #2, looking downstream.



Wetland outlet #2, looking upstream.





Wetland outlet #1.



Wetland outlet #1.





**SPA 1.** STA 20+60, erosion occurring on left bank on the downstream end of the log grade control.



**SPA 2.** STA 12+30, erosion occurring behind log toe on log grade control.



**SPA 3.** Typical bare bank found along the reach.





Vegetation plot 1, 10 degrees.



Vegetation plot 2, 30 degrees.



Vegetation plot 3, 210 degrees.



Vegetation plot 4, 130 degrees.





Vegetation plot 5, 10 degrees.



Vegetation plot 6, 320 degrees.



Vegetation plot 7, 290 degrees.



Vegetation plot 8, 40 degrees.





Vegetation plot 9, 120 degrees.



Vegetation plot 10, 320 degrees.



Vegetation plot 11, 80 degrees.



Vegetation plot 12, 60 degrees.





Vegetation plot 13, 120 degrees.



Vegetation plot 14, 200 degrees.



Vegetation plot 15, 150 degrees.



Vegetation plot 16, 310 degrees.





Vegetation plot 17, 350 degrees.



Vegetation plot 18, 290 degrees.



Vegetation plot 19, 60 degrees.



Vegetation plot 20, 30 degrees.





Vegetation plot 21, 20 degrees.



Vegetation plot 22, 170 degrees.



Vegetation plot 23, 320 degrees.



Vegetation plot 24, 340 degrees.