Shepherds Tree Stream and Wetland Restoration
Project No. 333
2006 Monitoring Report: Year 2 of 5

March 2007

Submitted to: NCDENR-EEP
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Raleigh, NC 27699-1652

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Ecosystem Enhancement PROGRAM

NCDENR

JORDAN JONES & GOULDING

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Jordan
Jones &
Goulding

EXECUTIVE SUMMARY

Executive Summary

The Shepherds Tree stream and wetland restoration site is located in Iredell County and is a mitigation project for the North Carolina Department of Transportation (NCDOT). The main goal of the Shepherds Tree stream and wetland restoration project was to re-establish an integrated wetland-stream complex which existed on the site before it was disturbed. This wetland-stream complex was proposed to restore ecosystem processes, structure, and composition to mitigate for wetland functions and values that have been lost as a result of human induced disturbances in the Yadkin River Basin. The proposed mitigation plan included stream, wetland and riparian restoration components.

The goals of the project were to establish the following:

1. Restoring approximately 9,900 linear feet of perennial stream which is a tributary to Third Creek.
2. Restore 800 linear feet of intermittent stream that is a tributary to the perennial stream.
3. Restore 91 acres of forested wetland.
4. Restore 5 acres of emergent wetland.

The majority of the stream construction consisted of relocating the stream channel (Priority 1) and constructing an E channel at the elevation of the historic floodplain. The reach was enhanced using vegetation and bank stabilization structures, such as single arm vanes, cross-vanes, J-hooks, and root wads. A sinuous, stable pattern, with riffle-pool bedform was constructed. Cross-vanes and J-hooks were installed to provide bank stabilization, habitat, and maintain grade control. Wetland restoration consisted of plugging and filling agricultural ditches and planting vegetation. Riparian areas were planted with native bare root seedlings and herbaceous cover to enhance the riparian areas, improve habitat, and stabilize streambanks.

Beaver activity had developed over the 2006 growing season and several dams were constructed, creating areas of inundation. The EEPs beaver management contractor, the United States Department of Agriculture (APHIS unit), was detailed to remove the beaver and the dams. The conditions at the site are apparently very attractive to beaver as the contractor was forced to make many site visits. Full removal was reported to the EEP by USDA in October 2006, permitting the completion of monitoring activities, but remnant impacts were still evident. Renewed beaver activity has been observed in early 2007, and the USDA was tasked by the EEP with another removal effort in February 2007.

Despite the beaver activity, the site appears relatively stable, but the channel characteristics are likely not what were proposed. The majority of project conditions reflect the as-built drawings. The pattern and profile of the restored channel appear stable, but the desired bed features (riffle, run, pool, and glide) of the profile have been affected by the backwater resulting in a continuous, stagnant run. The beaver activity has also negatively affected the flow and flooding dynamics of the channel.

In areas upstream of the beaver impoundments, structures are inundated, flow velocities are low, and typical channel flow is at the bankfull level or higher. Channel particle size throughout the stream is silt due to deposition. In-stream channel vegetation is also developing which also leads to backwater and inundation. In the areas downstream of the beaver activity, low flow conditions exist, which is likely due to the reduced hydrology as a result of the beaver impoundments upstream.

Approximately 91 acres of the site were planted with various native hardwood tree and shrub species for the Shepherds Tree wetland restoration. During the 2006 monitoring conducted by JJG, there were fourteen vegetative plots identified and monitored. Review of the stem count data indicates an average of 29 stems per monitoring plot. This number includes the four additional monitoring plots that were counted by JJG in May 2006. The overall stem density per acre resulted in approximately 580 stems; therefore, exceeding the required density of 320 stems/per acre for the 2nd year of five monitoring periods.

Eighteen groundwater monitoring gauges, one rain gauge, and three surface flow gauges are located on site. With the exception of gauges 2 and 5, all gauges did meet the success criteria for wetland hydrology. In total, 16 of 18 gauges met the success criteria. The overall success of the groundwater gauges in 2006 considerably improved from the previous 2005 monitoring report. In 2005, only 8 of 16 reported gauges met the success criteria. At this time, some areas have drained, while other areas have become more saturated.

This report serves as the 2nd year of the 5-year monitoring plan for the Shepherds Tree stream and wetland restoration site. Based on vegetation and monitoring gauge results, the site has met wetland success criteria for 2006. Due to the beaver activity and variability of the site conditions, stream flow dynamics were variable, but the stream is stable. Shepherds Tree restoration site has met mitigation goals for Monitoring Year 2. If beaver activity is totally eliminated from the site, it is possible that the designed conditions could be further achieved with some maintenance.

Jordan Jones & Goulding

SECTION I
Project Background

SECTION I
Project Background

The project background information provided in the following sections summarizes the project location and settings, mitigation structure and objectives, history and background and the monitoring plan view. The Shepherds Tree mitigation plan (State Project No. 6.769001t) submitted by the NCDOT was used as a reference for the information provided in the project background.

Location and Setting

The Shepherds Tree stream and wetland restoration site is located in Iredell County, southeast of Statesville between Triplett Road (SR 2362) and Knox Farm Road (SR 2363) (Figure I). The Shepherds Tree stream is a first order tributary of Third Creek, located within the Yadkin River watershed (HUC 03040102). The site drains approximately 1.06 square miles (Figure I), occupying approximately 160 acres within the 2, 10 and 100 year floodplain of Third Creek.

To access site from Interstate 77, take exit 49A, Route 70, heading east. Drive approximately 6.0 miles to Triplett Road and turn right. Drive approximately 1.5 miles, at which point, look for a gravel parking spot on left just before Cornflower Road. The restoration project is located where Triplett Road crosses the stream.

Mitigation Structure and Objectives

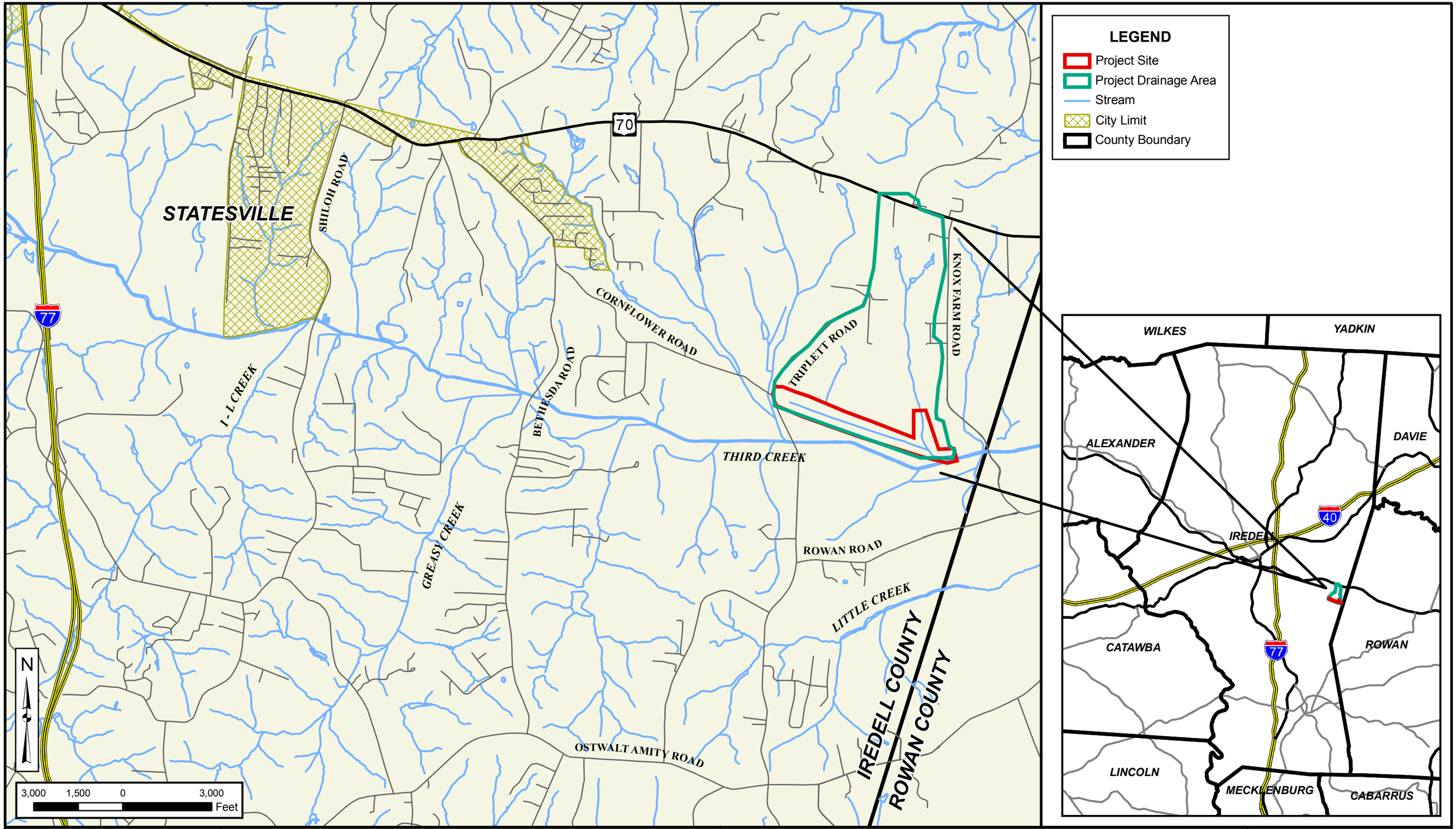
The Shepherds Tree stream and wetland mitigation site was developed as a NCDOT project. The restoration site is located within the northeastern Piedmont region of the Catawba River Basin (HUC 3050101). Historically, the site was utilized for agricultural activities and improvement projects through the Civilian Conservation Corps, resulting in the re-alignment, ditching and berming of Third Creek. Adjacent floodplains and streams were also cleared, drained, and ditched. These activities are thought to have inhibited stream and wetland functional stability within the site, resulting in a degraded riparian community.

The goal of the Shepherds Tree mitigation project was to re-establish a wetland-stream system to restore ecosystem processes, structure, and composition to mitigate for wetland functions and values that have been lost as a result of human induced disturbances in the 030703 sub-basin of the Yadkin River. The project consisted of restoring approximately 10,700 linear feet of stream, 91 acres of forested wetland, and 5 acres of emergent wetland.

The stream restoration component consisted of restoring approximately 9,900 linear feet of perennial stream and 800 linear feet of intermittent stream that is a tributary to the perennial stream.

The majority of the stream construction consisted of relocating the stream channel (Priority 1) and constructing an E channel at the elevation of the historic floodplain. The reach was enhanced using vegetation and bank stabilization structures, such as single arm vanes, cross-vanes, J-hooks, and root wads. A sinuous, stable pattern, with riffle-pool bedform was constructed. Cross-vanes, J-hooks, and riffles were installed to provide bank stabilization, habitat, and maintain grade control.

Wetland restoration consisted of plugging and filling agricultural ditches and planting vegetation. Relocation of the ditched stream, filling of lateral drainage ditches, alteration of grade, and breaching the berm along Third Creek were executed to re-establish periodic overbank flooding and raising groundwater elevation. The riparian and wetland areas for the unnamed tributary of Third Creek were disked to facilitate plantings. Native bare root seedlings and herbaceous cover were installed to enhance the riparian areas and stabilize streambanks. Ninety-one acres of forested wetland and five acres of emergent wetland were restored.



Ecosystem Enhancement Program

JORDAN JONES & GOULDING

Shepherds Tree Stream and Wetland Restoration Project
Project Location and Watershed Map
Iredell County, NC

Figure 1
January 2007
Project No: 3060001.05

Table I. Project Mitigation Structure and Objectives

Shepherds Tree/Project No. 333					
Segment/Reach	**Mitigation Type**	**Approach**	**Linear Feet**	**Stationing (ft)**	**Comments**
Perennial Reach	R	P1	9,900	0+00-99+00	Channel restoration, relocation with use of grade control and bank protection structures.
Intermittent Reach	R	P1	800	0+00-8+00	Channel restoration, relocation with use of grade control and bank protection structures.
Piedmont/Mountain Bottomland Hardwood Forest	R	-	48.56 acres	N/A	Restoration/Enhancement of bottomland hardwood communities by breaching channel berms, plugging drainage ditches and revegetation
	C	-	37.71 acres		
Piedmont/Mountain Swamp Hardwood Forest	R	-	5 acres	N/A	Restoration/Enhancement of swamp hardwood communities by breaching channel berms, plugging drainage ditches and revegetation
Low Elevation Seep	P	-	4.54 acres	N/A	Preservation of an existing levee forest

(R=Restoration, C=Creation, and P=Preservation)

Project History and Background

The stream and wetland enhancement/restoration was designed by KCI Associates of North Carolina, PA. Construction activities were completed in 2004. Monitoring has been conducted annually from 2005 to present. However, stream monitoring was not conducted in 2005. This report serves as the 2nd year of the 5-year monitoring plan for Shepherds Tree Stream and Wetland Restoration site. Tables II and III provide detailed project activity, history and contact information for this project. Table IV provides more in-depth watershed/site background for the project.

Table II. Project Activity and Reporting History

Shepherds Tree/Project No. 333			
Activity or Report	**Scheduled Completion**	**Data Collection Completed**	**Actual Completion or Delivery**
Restoration Plan	Unknown	Unknown	June 2001
Final Design-90%	Unknown	Unknown	Unknown
Construction	Summer 2001	Unknown	2004
Temporary S&E mix applied to entire project area	Fall 2001	Fall 2001	Fall 2001
Permanent seed mix applied to reach	Spring 2002	Spring 2002	Spring 2002
Mitigation Plan/ As-Built (Year 0 Monitoring)	June 2001	June 2001	June 2001
Year 1 Monitoring	2005	December 2005	February 2006
Year 2 Monitoring	2006	September 2006	January 2007
Year 3 Monitoring	2007	TBD	TBD
Year 4 Monitoring	2008	TBD	TBD
Year 5 Monitoring	2009	TBD	TBD

Table III. Project Contacts

Shepherds Tree/Project No. 333	
Designer	KCI Associates of North Carolina, PA Suite 200 Landmark Center I 4601 Six Forks Rd Raleigh, NC 27609
Contractor's Name	Unknown
Planting Contractor	Unknown
Seeding Contractor	Unknown
Monitoring Performers	Jordan, Jones, and Goulding, Inc. 9101 Southern Pine Blvd., Suite 160 Charlotte, NC 28273
Stream Monitoring, POC	Dan Rice, 678-333-0457
Vegetation Monitoring, POC	Dan Rice, 678-333-0457

Table IV. Project Background

Shepherds Tree/Project No. 333	
Project County	Iredell, North Carolina
Drainage Area	1.06 sq mi
Drainage impervious cover estimate	~10%
Stream Order	First
Physiographic Region	Piedmont
Ecoregion	Southern Outer Piedmont
Rosgen Classification of As-built	E5
Cowardin Classification	R2UB34
Dominant soil types	Chewalca, Conagree
USGS HUC for Project and Reference	03040102
NCDWQ Sub-basin for Project and Reference	030706
NCDWQ classification for Project and Reference	C
Any portion of any project segment 303d list?	No
Any portion of any project segment upstream of a 303d listed segment?	No
Reason for 303d listing or stressor?	N/A
% of project easement fenced?	100%

Monitoring Plan View

The monitoring plan view map (Figure II) illustrates the location of the longitudinal profile stations, cross-section stations, vegetation plots, and photo points. A total of sixteen cross-sections were established within the stream and wetland restoration project. Approximately 3,300 linear feet of longitudinal profile was monitored. A total of ten previously established vegetation plots and four additional vegetation plots were monitored by JJG in 2006. Sixteen groundwater monitoring gauges and three surface water gauges were previously installed by NCDOT and downloaded on a monthly basis. Photographs were taken upstream and downstream at each cross-section and at existing photo points. Beaver activity within the stream and wetland site inhibited the geomorphic assessment in portions of the site.

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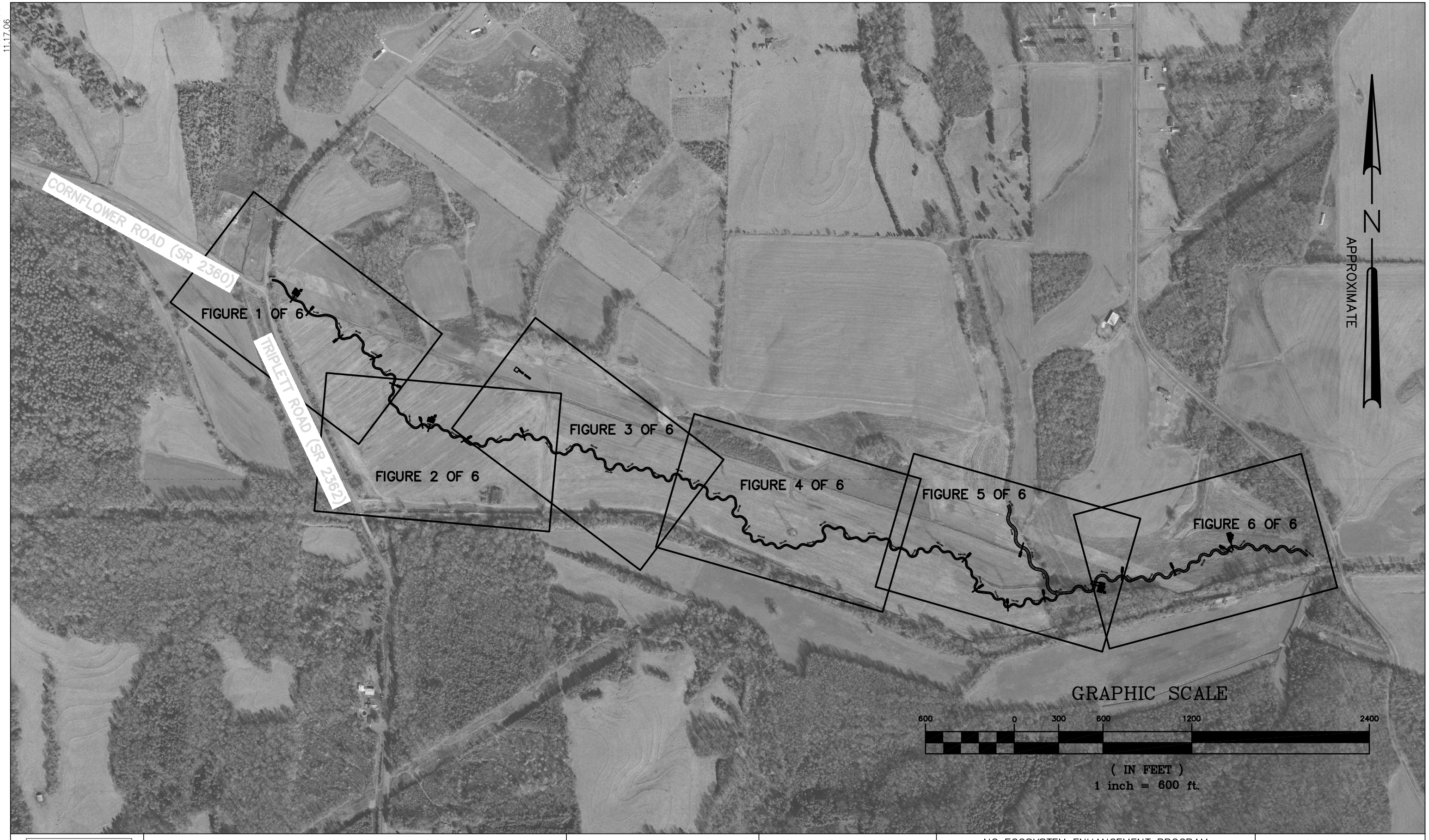
11.17.06



Ecosystem Enhancement PROGRAM

NOTES:
1. GENERAL SITE DATA PROVIDED BY NCEEP.
2. ALL LOCATIONS ARE APPROXIMATE.

PROJECT NO. 333
IREDELL COUNTY
NORTH CAROLINA
MONITORING
YEAR 2 OF 5

JORDAN JONES & GOULDING

NC ECOSYSTEM ENHANCEMENT PROGRAM
SHEPHERDS TREE STREAM & WETLAND RESTORATION

FIGURE II
MONITORING PLAN VIEW MAP

DATE : MARCH 2007
SCALE : 1"=600'
JOB NO.: 03060-001

FIGURE KEY

TBMILLER

NC3001CS01.dwg
01.29.07

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

WELL 1

DUKE POWER RIGHT-OF-WAY

APPROXIMATE

PROJECT BOUNDARY

BEGIN LONGITUDINAL PROFILE 1A

CROSS-SECTION #1

WELL 2

0+00

2+00

4+00

6+00

8+00

10+00

12+00

CV-1 CV-2 CV-3 CV-4 CV-5 CV-6 CV-7 CV-8

JV-1 JV-2

CROSS-SECTION #2

CROSS-SECTION #6

CROSS-SECTION #3

WELL 6

CV-9

CORNFLOWER ROAD (SR 2360)

TRIPLETT ROAD (SR 2362)

WELL 3

NCDOT- SHEP-2
N = 726,169.91
E = 1,472,847.50
ELEV. = 737.21

MATCHLINE STA. 13+50
SEE FIGURE 2 OF 6

LEGEND

- CHANNEL CENTERLINE
- BANK FULL
- PHOTO POINT
- CROSS VANE (CV)
- J-HOOK VANE (JV)
- STEP POOL (SSP)
- ROOT WAD
- WELL
- SURFACE GAUGE
- RAIN GAUGE
- VEGETATION PLOT

Ecosystem Enhancement PROGRAM

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PROJECT NO. 333
IREDELL COUNTY
NORTH CAROLINA
MONITORING
YEAR 2 OF 5

JORDAN JONES & GOULDING

NC ECOSYSTEM ENHANCEMENT PROGRAM
SHEPHERDS TREE STREAM & WETLAND RESTORATION

FIGURE II
MONITORING PLAN VIEW MAP

DATE : MARCH 2007
SCALE : 1" = 100'
JOB NO.: 03060-001

FIGURE 1 OF 6

JTHACKSTON

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NC3001CS02.dwg
01.29.07

MATCHLINE STA. 13+50
SEE FIGURE 1 OF 6

N
APPROXIMATE

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

5

10 JV-3 14+00 16+00

CROSS-SECTION #7

END LONGITUDINAL PROFILE 1A

11 CV-10 18+00 JV-4 CV-11 12

6

20+00

CROSS-SECTION #4

WELL 4

WELL 9

CV-12 22+00 13 JV-5 24+00 14 CV-13 26+00

CROSS-SECTION #5

MATCHLINE STA. 26+50
SEE FIGURE 3 OF 6

TRIPLETT ROAD (SR 2362)

WELL

LEGEND

- CHANNEL CENTERLINE
- BANK FULL
- PHOTO POINT
- CROSS VANE (CV)
- J-HOOK VANE (JV)
- STEP POOL (SSP)
- ROOT WAD
- WELL
- SURFACE GAUGE
- RAIN GAUGE
- VEGETATION PLOT

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Ecosystem Enhancement PROGRAM

NOTES:
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PROJECT NO. 333
IREDELL COUNTY
NORTH CAROLINA
MONITORING
YEAR 2 OF 5

JORDAN JONES & GOULDING

NC ECOSYSTEM ENHANCEMENT PROGRAM
SHEPHERDS TREE STREAM & WETLAND RESTORATION

FIGURE II
MONITORING PLAN VIEW MAP

DATE : MARCH 2007
SCALE : 1" = 100'
JOB NO.: 03060-001

FIGURE 2 OF 6

NC3001CS03.dwg
01.29.07

APPROXIMATE

WELL 11

WELL 8

RAIN GAUGE

WELL 12

14

40+00

20

JV-9

38+00

JV-10

CV-17

19

36+00

17

34+00

CV-16

32+00

JV-8

CV-15

16

30+00

JV-6

CV-14

28+00

15

JV-7

7

18

MATCHLINE STA. 26+50
SEE FIGURE 2 OF 6

MATCHLINE STA. 40+50
SEE FIGURE 4 OF 6

WELL 7

LEGEND

- CHANNEL CENTERLINE
- BANK FULL
- PHOTO POINT
- CROSS VANE (CV)
- J-HOOK VANE (JV)
- STEP POOL (SSP)
- ROOT WAD
- WELL
- SURFACE GAUGE
- RAIN GAUGE
- VEGETATION PLOT

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

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JTHACKSTON

Ecosystem Enhancement PROGRAM

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PROJECT NO. 333
IREDELL COUNTY
NORTH CAROLINA
MONITORING
YEAR 2 OF 5

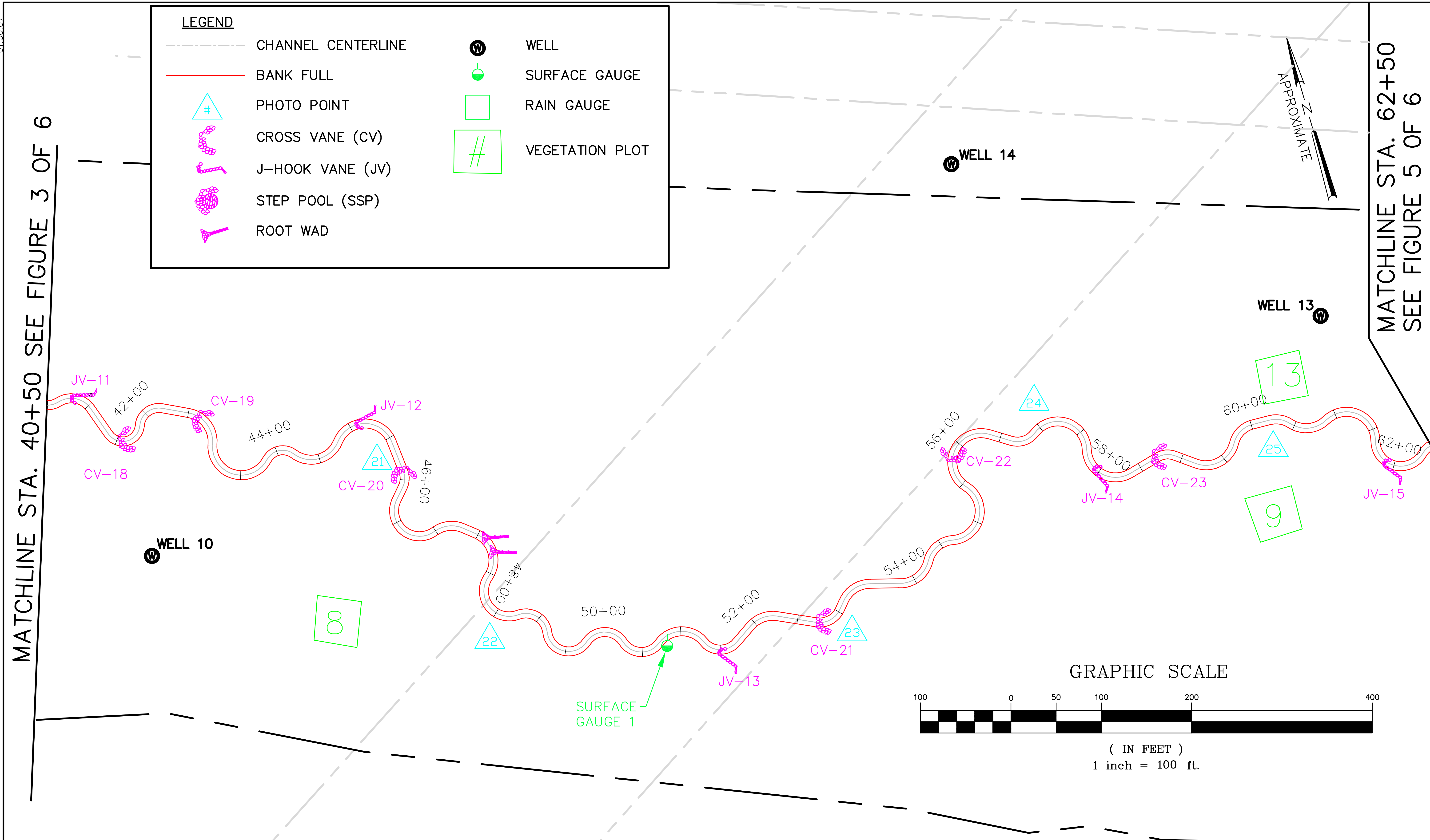
JORDAN JONES & GOULDING

NC ECOSYSTEM ENHANCEMENT PROGRAM
SHEPHERDS TREE STREAM & WETLAND RESTORATION

FIGURE II
MONITORING PLAN VIEW MAP

DATE : MARCH 2007
SCALE : 1" = 100'
JOB NO.: 03060-001

FIGURE 3 OF 6



Ecosystem Enhancement PROGRAM

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PROJECT NO. 333
IREDELL COUNTY
NORTH CAROLINA
MONITORING
YEAR 2 OF 5

JORDAN JONES & GOULDING

NC ECOSYSTEM ENHANCEMENT PROGRAM
SHEPHERDS TREE STREAM & WETLAND RESTORATION

FIGURE II
MONITORING PLAN VIEW MAP

DATE : MARCH 2007
SCALE : 1" = 100'
JOB NO.: 03060-001
FIGURE 4 OF 6

NC3001CS05.dwg
01.29.07

LEGEND

- CHANNEL CENTERLINE
- BANK FULL
- PHOTO POINT
- CROSS VANE (CV)
- J-HOOK VANE (JV)
- STEP POOL (SSP)
- ROOT WAD
- WELL
- SURFACE GAUGE
- RAIN GAUGE
- VEGETATION PLOT

APPROXIMATE

0+00 SSP-1 SSP-2 33 2+00 SSP-3 SSP-4 4+00 SSP-5 SURFACE GAUGE 2 32 SSP-6 6+00 SSP-7 SSP-8 78+00 CV-29 34 JV-20 80+00 CV-28 31 JV-19 CV-27 76+00 30 74+00 JV-18 CV-26 28 72+00 70+00 CV-25 27 68+00 JV-17 66+00 JV-16 64+00 26 CV-24

CROSS-SECTION #11
CROSS-SECTION #16
CROSS-SECTION #12
CROSS-SECTION #10
CROSS-SECTION #8
CROSS-SECTION #9

12 11

WELL 16
WELL 15

BEGIN LONGITUDINAL PROFILE 1B

82+00 CV-30

MATCHLINE STA. 82+50
SEE FIGURE 6 OF 6

MATCHLINE STA. 63+00
SEE FIGURE 4 OF 6

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

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JTHACKSTON

Ecosystem Enhancement PROGRAM

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PROJECT NO. 333
IREDELL COUNTY
NORTH CAROLINA
MONITORING
YEAR 2 OF 5

JORDAN JONES & GOULDING

NC ECOSYSTEM ENHANCEMENT PROGRAM
SHEPHERDS TREE STREAM & WETLAND RESTORATION

FIGURE II
MONITORING PLAN VIEW MAP

DATE : MARCH 2007
SCALE : 1" = 100'
JOB NO.: 03060-001

FIGURE 5 OF 6

NC3001CS06.dwg
01.30.07

LEGEND

- CHANNEL CENTERLINE
- BANK FULL
- PHOTO POINT
- CROSS VANE (CV)
- J-HOOK VANE (JV)
- STEP POOL (SSP)
- ROOT WAD
- WELL
- SURFACE GAUGE
- RAIN GAUGE
- VEGETATION PLOT

N
APPROXIMATE

MATCHLINE STA. 82+50
SEE FIGURE 6 OF 6

CROSS-SECTION #13

CROSS-SECTION #14

CROSS-SECTION #15

NCDOT- SHEP-5
N = 725,309.72
E = 1,479,717.81
ELEV. = 731.86

SURFACE GAUGE 3

WELL 18

WELL 17

84+00
86+00
88+00
90+00
92+00
94+00
96+00
98+00
99+04.13

CV-31
CV-32
CV-33
JV-21
JV-22
JV-23
JV-24

35
36
37
38
39
10

END LONGITUDINAL PROFILE 1B

DOUBLE STEP POOL

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

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PROJECT NO. 333
IREDELL COUNTY
NORTH CAROLINA
MONITORING
YEAR 2 OF 5

JORDAN JONES & GOULDING

NC ECOSYSTEM ENHANCEMENT PROGRAM
SHEPHERDS TREE STREAM & WETLAND RESTORATION

FIGURE II
MONITORING PLAN VIEW MAP

DATE : MARCH 2007
SCALE : 1" = 100'
JOB NO.: 03060-001

FIGURE 6 OF 6

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SOUTHACKSTON

Jordan Jones & Goulding

SECTION II
Project Condition and Monitoring Results

SECTION II
Project Condition and Monitoring Results

The following vegetation and hydrology monitoring results are from the 2006 (year 2 of 5) survey completed in September 2006. Morphological monitoring results for 2006 (year 2 of 5) were completed from September 2006 through January 2007 due to beaver activities.

A. Vegetation Assessment

Approximately 91 acres were planted with various native hardwood tree and shrub species for the Shepherds Tree wetland restoration. Previous monitoring reports indicate that ten 50 ft by 50 ft monitoring plots were established by NCDOT for this project. During the 2006 monitoring conducted by JJG, there were fourteen vegetative plots identified and monitored. For the first three years of monitoring, the site must meet a success criterion of 320 live stems per acre. The site density must be 290 stems per acre at the end of year 4 and 260 stems per acre at the end of year 5. JJG counted the previously mentioned stems from the 2005 monitoring report as the planted stems. For those species that were not previously mentioned, JJG counted them as natural volunteers. When calculating stem density, natural volunteers increases the overall number greatly; therefore, indicating a greater success criterion.

1. Soil Data

The Shepherds Tree restoration project is situated in the Inner Piedmont of the North Carolina Piedmont Physiographic Region. The soil types mapped within the riparian area adjacent to the project resemble those found in alluvial landforms of this physiographic region. The site has been historically disturbed; therefore, it is unlikely that the naturally occurring soils are on site. The two dominating soil mapping units that are located within the project are Chewacla (Cw) and Conagree (Cy) soils. These soils are fine loamy alluvial materials that are somewhat poorly drained. Both soils are listed on the *Hydric Soils of North Carolina* for Iredell County. Please refer to Table V for preliminary soil data for the project area. Please refer to Figure III for a soil map of the project area.

Table V. Preliminary Soil Data
Shepherds Tree Stream and Wetland Restoration
Project No: 333

Soil Series	Max Depth (inches)	% Clay on Surface	K Factor	T Factor	OM %
Chewacla (Cw)	60	10-35	0.28	5	1.0-4.0
Congaree (Cy)	70	10-25	0.37	5	1.0-4.0

Ecosystem Enhancement Program

Jordan Jones & Goulding Incorporated

Shepherds Tree Stream and Wetland Restoration Project
Soils Map
Iredell County, NC

Figure 3
January 2007
Proj. No. 3060001.05

2. Vegetative Problem Areas

Overall, the riparian and wetland areas appear to be developing as designed, and there are no major problems to report. There are indicators of surficial wetland hydrology within the wetland areas and the previous channel locations. Some of the observed wetland hydrology is a result of the beaver activity, and there are areas of inundation within the wetland areas. Within the vegetation plots, the combined number of recruitment specimens and surviving saplings exceeds the survival count from the previous year's monitoring. Recruitment species include sweet gum (*Liquidambar styraciflua*), box-elder (*Acer negundo*), red maple (*Acer rubrum*), cottonwood (*Populus deltoides*), sycamore (*Platanus occidentalis*). Woody species such as black willow (*Salix nigra*) planted along the stream bank are doing gauge providing both shade cover and bank stability. However, in areas of excessive beaver activity, some of these specimens have been removed. The following problems should continue to be monitored.

- As a result of beaver impoundments, isolated portions of wetlands are likely inundated for extended periods.

In areas of beaver activity, the black willows planted along the banks have been removed. Please refer to Table VI for noted vegetative problem areas on site.

Table VI. Vegetative Problem Areas
Shepherds Tree Stream and Wetland Restoration
Project No: 333

Problem Area	Station Number	Suspected Cause	Photo Reference
Loss of Stream Bank Vegetation	2+70 to 3+40	Beaver Activity	A1-1
Loss of Live Stakes	Along Restored Reach	Beaver Activity	A1-2
Beaver Pond	38+15 to 78+40	Beaver Activity	A1-3

3. Vegetative Problem Area Plan View

Please refer to Appendix A2 and B2 for photos of the vegetative problems onsite.

4. Stem Counts

JJG conducted the vegetation plot monitoring in May 2006. The previous monitoring report states that the following tree and shrub species were planted in the wetland restoration areas: *Salix nigra* (black willow), *Fraxinus pennsylvanica* (green ash), *Liriodendron tulipifera* (tulip poplar), *Plantanus occidentalis* (American sycamore), *Quercus nigra* (water oak), *Acer negundo* (box-elder), *Quercus machauxii* (swamp chestnut oak), *Quercus pagoda* (cherrybark oak), *Quercus phellos* (willow oak), and *Cephalanthus occidentalis* (buttonbush). There were fourteen vegetative plots monitored during 2006. All plots were 50 ft by 50 ft and were identified by yellow NCDOT federal highway easement markers. The previous monitoring report indicates that ten plots were monitored and established by NCDOT.

Please refer to Table VIIA for the results of the plot monitoring. Please refer to Appendix A for the summary data table and photographs of the plots monitored.

Table VIIA.
Stem Counts for Each Species Arranged by Monitoring Plot
Shepherds Tree Stream and Wetland Restoration
Project No: 333

Planted Species	Plots Monitored 2005 and 2006										Totals for Plots 1-10		Additional Plots Monitored 2006				Totals for Plots 1-14
	1	2	3	4	5	6	7	8	9	10	2005	2006	11	12	13	14	2006
Salix nigra							10	1			11	11			2	4	17
Fraxinus pennsylvanica	2		4	15	3	3	4		10	10	51	51	17	11	20	8	107
Liriodendron tulipifera	1		1	12							14	14					14
Platanus occidentalis			9			2	1	10	6		28	28	4	17	20	20	89
Quercus nigra	1			2		2					5	5				3	8
Acer negundo			1			4			2		7	7	7	11	15		40
Quercus machauxii		2	4	1		2			4		13	13	3	15		4	35
Quercus pagoda	12		3	2	4	8		3	4	2	38	38		4	10	4	56
Quercus phellos	2	3				1					7	7	2		7	7	23
Cephalanthus occidentalis	4	2	1	1	3		1	1			12	12	1			2	15
Total Planted Stems Per Plot	**22**	**7**	**23**	**33**	**10**	**22**	**16**	**15**	**26**	**12**	**186**	**186**	**34**	**58**	**74**	**52**	**404**
Percent (%) Survival												**100**					
Average Number of Stems per Plot 2005	**19**																
Average Number of Stems Per Plot 2006	**29**																
Live Stem Density Per Acre 2005	**324**																
Live Stem Density Per Acre 2006	**580**																

Table VIIB.
Stem Counts for Volunteer Species Arranged by Monitoring Plot
Shepherds Tree Stream and Wetland Restoration
Project No: 333

Volunteer Species	Monitoring Plots													
	1	2	3	4	5	6	7	8	9	10	11*	12*	13*	14*
SN (black willow)		5		7	2	14		7	4	2				
FP (green ash)	5	6	4	8	3	13		12		15				
LT (tulip poplar)	1			3										
PO (American sycamore)		8	2			1			15	10				
QN (water oak)	4		3							2				
AN (box elder)			2		2		10			20				
QM (swamp chestnut oak)	3	8	2	5			15			15				
QP (cherrybark oak)	2			5				2						
QP (willow oak)	8	3												
CO (button bush)					5					5				
NS (black gum)	3		3				9			4	2	1		
BN (river birch)		17						1		2		10		2
AS (tag alder)													10	1
LS (sweet gum)										8				
AR (red maple)	13	30	2	20	11	6	7		6		8		20	20
Total Volunteer Stems Per Plot 2006	**39**	**77**	**18**	**48**	**23**	**34**	**41**	**22**	**25**	**83**	**10**	**11**	**30**	**23**

* All species in these additional plots monitored were counted as planted.

There is an average of 29 stems per monitoring plot. This number includes the four additional monitoring plots that were counted by JJG in May 2006. The overall stem density per acre resulted in approximately 580 stems.

5. Vegetative Monitoring Plot Photographs

Please refer to Appendix A3 for photographs of each vegetation plot.

B. Stream Assessment

Stream dimension, pattern, profile and substrate were evaluated within 10,700 linear feet of the stream and wetland restoration site. The stream assessment included walking the entire stream reach and monitoring 3,300 linear feet of longitudinal profile and sixteen cross-sections. Please refer to Table VIII, IX, and X for the stability assessments and the as-built morphology and hydraulic summary, Table XI for monitoring years 2005-2006 morphology and hydraulic summary, and Appendix B for the problem area plan view map, stability assessment, stream photographs and raw data.

1. Problem Areas Plan View (Stream)

Please refer to Appendix B1 for the problem areas plan view map.

2. Problem Areas Table Summary

Table VIII below provides categorical feature issues by station, the suspected cause and denotes a representative photo of the condition, which is located in Appendix B2. The tables below are split into two separate assessments, April 2006 and January 2007, due to the attempts by USDA to trap and remove the beaver population and their dams.

Table VIII. Stream Problem Areas
(Please refer to Appendix B2 for photos)

Shepherds Tree/Project No. 333 April 2006 Assessment			
Feature Issue	**Station Numbers**	**Suspected Cause**	**Photo ID**
Bank erosion - moderate	02+70 - 03+40	Inadequate bank cover- RB	B2.1
	04+20 - 04+60	Inadequate bank cover - RB	
Bank slump	01+30 - 01+65	Insufficient channel capacity - TOB LB	B2.2
	06+80 - 07+50	Formed inner berm - insufficient channel capacity - Both banks	
	20+20 - 20+80	Bank slump from TOB due to insufficient channel capacity - channel now over widened - Both banks	
	21+80 - 22+50	Bank slump from TOB due to insufficient channel capacity - channel now over widened - Both banks	
Beaver dam	57+10	Beaver	B2.3, B2.10, B2.11
Beaver impoundment	31+15 - 33+75	Beaver - channel inundated as it flows into beaver pond	B2.4, B2.8, B2.9, B2.12, B2.13
	36+90 - 38+80	Beaver pond	
	40+05 - 45+75	Beaver pond - channel inundated	
	65+60 - 67+50	Beaver pond - channel inundated	
	71+80 - 75+00	Beaver pond	
	76+60 - 78+40	Beaver pond	
	4+10 - 8+00 (side tributary)	Beaver pond - channel inundated as it flows into beaver pond	

In-stream wetland vegetation	10+60 - 11+00	Cattail (*Typha latifolia*) fills channel, channel over widened due to downstream beaver ponds	B2.5
	13+60 - 13+80	Cattail fills channel, channel over widened due to downstream beaver ponds	
	14+25 - 14+75	Cattail fills channel, channel over widened due to downstream beaver ponds	
	18+05 - 18+70	Cattail fills channel, channel over widened due to downstream beaver ponds	
	21+80 - 22+50	Cattail fills channel, channel over widened due to bank slump and downstream beaver ponds	
	62+20 - 62+40	Cattail fills channel, channel over widened due to downstream beaver ponds	
	64+30 - 64+90	Cattail fills channel, channel over widened due to downstream beaver ponds	
Mid-channel bar	03+60 - 04+10	Mid-channel bar due to bank slump - RB	B2.6
	05+50 - 05+60	Mid-channel bar due to bank slump - RB	
Vegetative cover - poor	86+00 - 86+40	Dead willow stakes and vegetation due to inadequate hydrology, coir matting exposed - Both banks	B2.7
	96+80 - 97+10	Dead willow stakes and vegetation due to inadequate hydrology, coir matting exposed - RB	

Shepherds Tree/Project No. 333 January 2007 Assessment			
Feature Issue	**Station Numbers**	**Suspected Cause**	**Photo ID**
Beaver dam	29+00	Beaver	B2.8
	46+00	Beaver	
	55+00	Beaver	
New Beaver Chews	8+00	Vegetation with fresh beaver chew markings and skat markings	B2.9
Beaver impoundment	8+50 - 11+25	Beaver - channel inundated: Not out of banks	B2.10
	12+00 – 16+50	Beaver - channel inundated: Not out of banks	
	25+00 – 35+00	Beaver - channel inundated: Not out of banks	
	35+00 – 46+00	Beaver - water ponding: Out of banks	
	47+00 – 51+50	Beaver - channel inundated: Not out of banks	
	51+50 -55+00	Beaver - water ponding: Out of banks	

3. Numbered Issues Photo Section

Please refer to Appendix B2 for problem area plan view photos.

4. Fixed Photo Station Photos

Please refer to Appendix B3 for photo station photos.

5. Stability Assessment

Beaver activity has resulted in several impoundments along the stream which have affected the flow and flooding dynamics of the channel. A general overview is provided below from the initial stability assessment conducted in April 2006.

- As a result of beaver activity, there are several large impoundments along the stream. In these areas, the top of bank and most structures are inundated. The channel width is slightly wider than designed, and velocity and associated flow dynamics are much less than designed. Many of the planted willows have been removed, and herbaceous vegetation is minimal.
- Between these impoundments, the channel is typically inundated to the bankfull level, and flow velocities are reduced. Emergent wetland vegetation such as broad-leaved cattail (*Typha latifolia*) has begun to colonize shallower portions of the channel.
- In the upper portions of the channel (upstream of Station 25+00), there are some areas in which the bank has collapsed forming a bankfull bench within the channel. These areas appeared relatively stable, but the channel dimensions have likely changed from the designed cross-section. Typically, the slumped bank has formed a bench-type feature within the channel, and black willow (*Salix nigra*) is filling in these bench areas. The black willow was probably initially staked on the bank that has now slumped. In some areas, mid-channel bars are developing possibly as result of upstream bank slumping.
- Within the most downstream 2,000 feet of the channel, the channel appears to be slightly incised and less connected to its floodplain than upstream. Beaver activity is occurring within this area, but appears minimal compared to upstream activity.

Table IX. Categorical Stream Feature Visual Stability Assessment

Shepherds Tree/Project No. 333, Upper Reach (1a)			
Feature	**As-Built**	**MY1 (2005)**	**MY2 (2006)**
A. Riffles	-	-	0%*
B. Pools	-	-	0%*
C. Thalweg	-	-	*
D. Meanders	-	-	100%
E. Bed General	-	-	50%
F. Vanes/J Hooks, etc	-	-	0%*
G. Wads and Boulders	-	-	0%*
H. Bank Performance	-	-	98.25%

Shepherds Tree/Project No. 333, Lower Reach (1b)			
Feature	**As-Built**	**MY1 (2005)**	**MY2 (2006)**
A. Riffles	-	-	0%
B. Pools	-	-	90.28%
C. Thalweg	-	-	*
D. Meanders	-	-	100%
E. Bed General	-	-	50%
F. Vanes/J Hooks, etc	-	-	100%
G. Wads and Boulders	-	-	100%*
H. Bank Performance	-	-	100%

(Cells noted with a (*), features impacted by beaver activity; heavy sedimentation and backwater observed and cells noted with a (-), data was not collected in previous monitoring years)

Overall, the stream restoration components of the project look stable; however, the beaver dams along the stream have resulted in channel inundation upstream of the beaver activity and low flow conditions downstream of the beaver activity. The following results are from the stream monitoring assessments conducted from September 2006 through January 2007.

This report serves as the initial stream assessment for the Shepherds Tree stream and wetland restoration site. According to the Year 1 Monitoring Report prepared by Soil and Environmental Consultants, a stream assessment was not performed in the first monitoring year, nor was an as-built survey completed after construction. Since these surveys were not performed, the longitudinal profile and cross-section locations were established by JJG, with North Carolina Ecosystem Enhancement Program (NCEEP) approval. Fifteen cross-sections (7 riffle and 8 pool) were surveyed within the main reach of Shepherds Tree, and one riffle was surveyed on the tributary. However, due to the beaver activity, which resulted in site inundation in certain areas, several cross-section locations needed to be re-located. All cross-sectional data collected and analyzed was compared to the proposed cross-sections from the design plans provided by NCEEP.

The proposed and existing cross-section dimensions appear similar, although the existing values are slightly higher. The cross-sections evaluated on the stream that were not within the longitudinal profile appeared to show the greatest differences in bankfull widths. This may be due to the fact that these areas were inundated for a long period of time from beaver activity. On average, the existing bankfull width was 10.8 ft and the proposed was 10.2 ft. The cross-sectional area is 19.4 ft^2 compared to the design value of 18.7 ft^2, and the mean bankfull depth is 1.94 ft compared to the proposed 1.85 ft. The existing bankfull widths and depths lead to an average width/depth ratio of 6.1 which is characteristic of the proposed Rosgen E-type channel. Overall, the present stream dimension conditions in Shepherds Tree appear to be stable. However, the lack of riparian vegetation in some areas could eventually lead to severe bank erosion and create a stream system that is over-widened and unstable.

Two separate longitudinal profiles reaches were surveyed on Shepherds Tree for a total of 3,300 linear feet. The upstream reach (Longitudinal Profile 1a) has been negatively impacted by beaver activity, and the desired riffle and pool streambed features are not present. Backwater and extensive sediment deposition in the upper reach has resulted from beaver dams, creating a long continuous run bed feature with silty substrate in most of the reach surveyed. The average water surface slope and the average bankfull slope are similar for the upper reach, 0.0021 ft/ft and 0.0024 ft/ft respectively. The downstream reach (Longitudinal Profile 1b) illustrates more definable bed features than the upstream reach, but it has also been altered by the impoundments and does not resemble what would be expected in a stable E-type stream. The average water surface slope and the average bankfull slope were the same for lower reach, 0.0024 ft/ft. The existing slopes for upper and lower reach could not be compared to the proposed design slopes due to the lack of clarity in the mitigation report for proposed water slope ranges (0.0015-0.0017 ft/ft and 0.004ft/ft). Stabilization structures installed in the upper reach have been buried by backwater and sediment. Several structures in the downstream reach are also buried by backwater and sediment, but a few were able to be surveyed.

Beaver activity along the stream and wetland site has altered a large portion of the mitigation site. The site appears relatively stable but the characteristics are likely not what were proposed. The majority of project dimension and pattern reflect the proposed designed drawings. Due to the beaver activity and variability of the site conditions, JJG is unable to assess the overall stream stability. Please refer to Table VIII, IX, X, and Appendix B for detailed stream assessment problem area results.

6. Quantitative Measures Tables

Table XI displays morphological summary data from all monitoring years. Raw survey data can be found in Appendix B.

C. Wetland Assessment

Eighteen groundwater monitoring gauges, one rain gauge, and three surface flow gauges are located on site. The gauges are calibrated to collect depth to groundwater levels relative to the ground surface each day. The gauges are downloaded each month and exported to Microsoft Excel for review. The overall goal of the monitoring gauges is to collect data that verifies the soil saturation period during the growing season.

Success criterion for the wetland restoration requires that areas be inundated or saturated within 12" of the ground surface for approximately two weeks (15 days) during the growing season (April 14 to October 24) of Iredell County, North Carolina.

1. Problem Areas Plan View (Wetland)

The stability of the wetland areas was reviewed monthly during the gauge monitoring. Due to beaver activity, the overall stability of the wetland and stream restoration project is fair. A technical memo dated August 25, 2006 was submitted to Mr. Greg Melia (NCEEP) regarding the beaver activity and the drastic change in groundwater levels monitored. Previous monitoring reports indicate that eight gauges (2, 3, 5, 6, 7, 13, 15, 16) did not meet the hydrology threshold for wetland success; however, six of these gauges (3, 6, 7, 13, 15, and 16) all met the threshold for the 2006 monitoring period. This is likely due to the beaver activity throughout the site. An attempt to trap and remove the beavers on site was performed in order to return the site to its natural hydrologic regime. At this time, some areas have drained, while other areas have become more saturated. New beaver activity was observed January 12, 2006 during field monitoring. These areas were not previously altered by the beaver activity.

The four surface gauges on Shepherds Tree were inundated for the majority of the 2006 monitoring year due to beaver activity. Surface Gauges 2 and 3 were inundated and in accessible for the beginning of the monitoring year. Surface Gauge 1 and Gauge 9 (which acts as a surface gauge) reflect data in areas that were not inundated. For Surface Gauge 1, the gauge is below the area of most of the beaver activity, so water levels are relatively low. Surface gauge 4 (Gauge 9) is located in an area that exhibited a lot of variability due to beaver activity. Please refer to Appendix C for the data and plots from the gauges.

2. Wetland Criteria Attainment

Sixteen of the eighteen groundwater gauges on site achieved wetland success criteria of saturation for 15 days during the growing season. Gauge 2 and 5 did not meet the success criteria. Gauge 5 is situated in an upland area that has not presented indicators of soil saturation or surface inundation throughout the monitoring period. Gauge 2 is situated within an area that has presented indicators of soil saturation; however, none of the data indicates that groundwater levels were within 12-inches of the ground surface, so the gauge may be malfunctioning. The overall success of the groundwater gauges in 2006 considerably improved from the previous 2005 monitoring report. In 2005, only 8 of 16 reported gauges met the success criteria. At this time, some areas have drained, while other areas have become more saturated. Please refer to Table XII for a summary of wetland attainment for the restoration project. Please refer to Appendix C for the data and charts illustrating the water levels.

Table X. Baseline Morphology and Hydraulic As-Built Summary
Shepherds Tree/Project No. 333

DIMENSION	USGS Gage Data	Regional Curve Interval	Pre-Existing Condition	Project Reference Stream	Design	As-Built
Bankfull Width (ft)	-	-	*	6.8-7.4	10.2	-
Floodprone Width (ft)	-	-		>100	>100	-
Bankfull Cross-sectional Area	-	-		9.0-9.6	18.7	-
Bankfull Mean Depth	-	-		1.31	1.85	-
Bankfull Max Depth	-	-		1.63-1.79	2.7	-
Width/Depth Ratio	-	-		5.2-5.6	5.4	-
Entrenchment Ratio	-	-		>10.0	>5.0	-
Wetted Perimeter (ft)	-	-		-	-	-
Hydraulic Radius (ft)	-	-		-	-	-
Bank Height Ratio	-	-		-	1.0	-
PATTERN						
Channel Beltwidth (ft)	-	-	*	51-92	85	-
Radius of Curvature (ft)	-	-		13.1-22.3	19.5-30.6	-
Meander Wave Length (ft)	-	-		77-100.7	114-138	-
Meander Width Ratio	-	-		5.2-12.5	4.2	-
PROFILE						
Riffle Length (ft)	-	-	*	-	-	-
Riffle Slope (ft/ft)	-	-		0.006-0.02	0.006-0.02	-
Pool Length (ft)	-	-		13-22	20-29	-
Pool to Pool Spacing (ft)	-	-		26-65	57-69	-
SUBSTRATE						
D50 (mm)	-	-	*	-	-	-
D85 (mm)	-	-		-	-	-
ADDITIONAL REACH PARAMETERS	**USGS Gage Data**	**Regional Curve Interval**	**Pre-Existing Condition**	**Project Reference Stream**	**Design**	**As-Built**
Valley Length (ft)	-	-	*	-	-	-
Channel Length (ft)	-	-		-	-	-
Sinuosity	-	-		1.36	1.3-1.5	-
Water Surface Slope (ft/ft)	-	-		0.0049-0.0064	0.004	-
Bankfull Slope (ft/ft)	-	-		-	-	-
Rosgen Classification	-	-		E5	E5	-
Cell noted with a (*), NCDOT report did not provide data due to existing stream channel on site not having representative features due to extensive human disturbances Cell noted with a (-), data was not provided						

Table XI. Morphology and Hydraulic Monitoring Summary
Shepherds Tree/Project No. 333

DIMENSION	Cross-Section 1-Riffle	Cross-Section 2-Pool	Cross-Section 3-Riffle	Cross-Section 4-Riffle	Cross-Section 5-Pool	Cross-Section 6-Pool	Cross-Section 7-Pool	Cross-Section 8-Pool
	2006	2006	2006	2006	2006	2006	2006	2006
Bankfull Width (ft)	7.96	9.19	9.04	10.42	8.86	7.8	11.17	25.96
Floodprone Width (ft)	>100	N/A	>100	>100	N/A	N/A	N/A	N/A
Bankfull Cross-sectional Area	9.55	12.07	6.86	21.41	15.5	7.44	18.04	46.62
Bankfull Mean Depth	1.20	1.31	0.76	2.05	1.75	0.95	1.61	1.8
Bankfull Max Depth	2.43	2.64	1.45	2.92	2.42	1.59	2.65	3.9
Width/Depth Ratio	6.63	7.02	11.89	5.08	5.06	8.21	6.94	14.42
Entrenchment Ratio	>2.20	N/A	>2.20	>2.20	N/A	N/A	N/A	N/A
Wetted Perimeter (ft)	9.96	12.23	9.88	12.75	11.02	8.86	12.84	27.33
Hydraulic Radius (ft)	0.96	0.99	0.69	1.68	1.41	0.84	1.4	1.71
Bank Height Ratio	1.00	1.00	1.00	1.00	1.0	1.0	1.0	1.0
SUBSTRATE								
D50 (mm)	0.05	0.03	0.03	0.05	0.04	0.04	0.04	0.06
D84 (mm)	0.10	0.06	0.05	0.09	0.07	0.06	0.08	0.11

PATTERN	2006		
	Min	Max	Med
Channel Beltwidth (ft)	40	60	45
Radius of Curvature (ft)	19	50	30
Meander Wave Length (ft)	90	140	120
Meander Width Ratio	7.06	10.99	9.42
PROFILE			
Riffle Length (ft)	*	*	*
Riffle Slope (ft/ft)	*	*	*
Pool Length (ft)	8.00	75.00	28.00
Pool to Pool Spacing (ft)	10.00	239.00	54.00

ADDITIONAL REACH PARAMETERS	2006
Valley Length (ft)	1227
Channel Length (ft)	1718
Sinuosity	1.4
Water Surface Slope (ft/ft)	0.0027
Bankfull Slope (ft/ft)	0.0026
Rosgen Classification	E6

Cells noted with a (*), riffles were not definable within survey reach
Cells noted with a (-), data was not collected in previous years
Cells noted with a (N/A), data was not applicable

Table XI. Morphology and Hydraulic Monitoring Summary Continued
Shepherds Tree/Project No. 333

DIMENSION	Cross-Section 9-Riffle	Cross-Section 10-Pool	Cross-Section 11-Pool	Cross-Section 12-Riffle	Cross-Section 13-Pool	Cross-Section 14-Riffle	Cross-Section 15-Pool	Cross-Section 16-Trib Riffle
	2006	**2006**	**2006**	**2006**	**2006**	**2006**	**2006**	**2006**
Bankfull Width (ft)	22.62	15.73	12.96	12.50	14.00	11.6	11.00	14.00
Floodprone Width (ft)	>100	N/A	N/A	>200	N/A	>200	N/A	>200
Bankfull Cross-sectional Area	38.46	22.52	20.39	25.81	32.40	20.2	22.12	6.7
Bankfull Mean Depth	1.7	1.43	1.57	2.06	2.31	1.74	2.01	0.48
Bankfull Max Depth	3.56	3.12	2.94	3.1	3.60	3.42	3.21	1.05
Width/Depth Ratio	13.31	11	8.25	6.07	6.06	6.67	5.47	29.17
Entrenchment Ratio	>2.20	N/A	N/A	>2.2	N/A	>2.2	N/A	>2.2
Wetted Perimeter (ft)	24.02	17.56	14.66	17.37	16.35	14.27	13.24	14.84
Hydraulic Radius (ft)	1.60	1.28	1.39	1.49	1.98	1.42	1.67	0.45
Bank Height Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.12
SUBSTRATE								
D50 (mm)	0.05	0.06	0.06	0.06	0.05	0.04	0.06	0.06
D84 (mm)	0.09	0.10	0.10	0.11	0.09	0.08	0.11	0.11

Cells noted with a (*), riffles were not definable within survey reach
Cells noted with a (-), data was not collected in previous years
Cells noted with a (N/A), data was not applicable

Table XII. Wetland Criteria Attainment

Shepherds Tree Stream and Wetland Restoration

Project No: 333

Gauge ID	Hydrology Threshold Met (Y/N)
Gauge 1	Y
Gauge 2	N
Gauge 3	Y
Gauge 4	Y
Gauge 5	N
Gauge 6	Y
Gauge 7	Y
Gauge 8	Y
Gauge 10	Y
Gauge 11	Y
Gauge 12	Y
Gauge 13	Y
Gauge 14	Y
Gauge 15	Y
Gauge 16	Y
Gauge 17	Y
Gauge 18	Y
2/18 gauges did not meet success criteria	

Vegetation Plot ID	Vegetation Survival Threshold Met (Y/N)
Plot 1	Y
Plot 2	Y
Plot 3	Y
Plot 4	Y
Plot 5	Y
Plot 6	Y
Plot 7	Y
Plot 8	Y
Plot 9	Y
Plot 10	Y
Plot 11	Y
Plot 12	Y
Plot 13	Y
Plot 14	Y
All Vegetation plots met survival threshold	

7. Hydrologic Criteria

Verification of bankfull events are unkown for the 2006 monitoring year. This is due to inundation of surface gauges and stream throughout the reach. Evidence of overbank conditions were observed, however; it is unknown whether high water marks were a result of bankfull events or beaver activity.

D. Macroinvertebrate Assessment

Macroinvertebrate sampling was not conducted for the 2006 monitoring year due to inundation from beaver activity on the Shepherds Tree site. Removal of beaver dams did not occur until

Winter 2006, so sampling was not conducted in 2006. Winter 2006 sampling would not be comparable to Spring 2007. NCEEP was contacted to discuss 2007 sampling.

Jordan Jones & Goulding

SECTION III
Methodology

SECTION III
Methodology

Methodology

Methods employed for the Shepherds Tree stream and wetland restoration project were a combination of those established by standard regulatory guidance and procedures documents (see below), the Shepherds Tree mitigation plan (state project no. 6.769001t) submitted by the NCDOT and the Soil and Environmental Consultants monitoring reports.

Jordan Jones & Goulding

REFERENCES

References

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Jordan Jones & Goulding

APPENDIX A

Vegetation Raw Data*

1. Vegetation Survey Data Tables
2. Vegetation Problem Area Photos
3. Problem Monitoring Plot Photos

*Raw data tables have been provided electronically.

Planted Species	Monitoring Plots													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
SN (black willow)							10	1					2	4
FP (green ash)	2		4	15	3	3	4		10	10	17	11	20	8
LT (tulip poplar)	1		1	12										
PO (American sycamore)			9			2	1	10	6		4	17	20	20
QN (water oak)	1			2		2								3
AN (box elder)			1			4			2		7	11	15	
QM (swamp chestnut oak)		2	4	1		2			4		3	15		4
QP (cherrybark oak)	12		3	2	4	8		3	4	2		4	10	4
QP (willow oak)	2	3				1					2		7	7
CO (button bush)	4	2	1	1	3		1	1			1			2
Totals	**22**	**7**	**23**	**33**	**10**	**22**	**16**	**15**	**26**	**12**	**34**	**58**	**74**	**52**

Volunteer Species	Monitoring Plots													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
SN (black willow)		5		7	2	14		7	4	2				
FP (green ash)	5	6	4	8	3	13		12		15				
LT (tulip poplar)	1			3										
PO (American sycamore)		8	2			1			15	10				
QN (water oak)	4		3							2				
AN (box elder)			2		2		10			20				
QM (swamp chestnut oak)	3	8	2	5			15			15				
QP (cherrybark oak)	2			5				2						
QP (willow oak)	8	3												
CO (button bush)					5					5				
NS (black gum)	3		3				9			4	2	1		
BN (river birch)		17						1		2		10		2
AS (tag alder)													10	1
LS (sweet gum)										8				
AR (red maple)	13	30	2	20	11	6	7		6		8		20	20
Totals	**39**	**77**	**18**	**48**	**23**	**34**	**41**	**22**	**25**	**83**	**10**	**11**	**30**	**23**

1. Bank Erosion – Vegetation Loss due to Beaver Activity

2. Beaver Pond Development

3. Beaver Dome

Photos taken during the initial site assessment conducted in May 2006

Prepared For:

Ecosystem Enhancement Program

Shepherds Tree Stream and Wetland Restoration
Year 2 of 5

Appendix A2. Vegetation Problem Area Photos

Date: March 2007
Project No.: 333

Jordan Jones & Goulding
INCORPORATED

File name

Monitoring Plot 1

Monitoring Plot 2

Monitoring Plot 3

Monitoring Plot 4

Photos taken during the vegetation monitoring conducted in May 2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix A3. Vegetation Monitoring Plot Photos	Jordan Jones & Goulding

File name

Monitoring Plot 5

Monitoring Plot 6

Monitoring Plot 7

Monitoring Plot 8

Photos taken during the vegetation monitoring conducted in May 2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix A3. Vegetation Monitoring Plot Photos	Jordan Jones & Goulding Incorporated

File name

Monitoring Plot 9

Monitoring Plot 10

Monitoring Plot 11

Monitoring Plot 12

Photos taken during the vegetation monitoring conducted in May 2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix A3. Vegetation Monitoring Plot Photos	Jordan Jones & Goulding

File name

Monitoring Plot 13

Monitoring Plot 14

Photos taken during the vegetation monitoring conducted in May 2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix A3. Vegetation Monitoring Plot Photos	Jordan Jones & Goulding Incorporated

File name

Jordan Jones & Goulding

APPENDIX B

Geomorphic and Stream Stability Data*

1. Problem Area Plan View
2. Representative Stream Problem Area Photos
3. Stream Photo Station Photos
4. Qualitative Visual Stability Assessment
5. Cross-section Plots and Raw Data Tables
6. Longitudinal Plots and Raw Data Tables
7. Pebble Count Plots and Raw Data Tables

*Raw data tables have been provided electronically.

1. Bank Erosion – Moderate 5/2006

2. Bank Slump 5/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B2. Representative Stream Problem Area Photos	Jordan Jones & Goulding Incorporated

3. Beaver Dam 5/2006

4. Beaver Impoundment 5/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B2. Representative Stream Problem Area Photos	Jordan Jones & Goulding Incorporated

5. In-Stream Wetland Vegetation 5/2006

6. Mid-Channel Bar 5/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B2. Representative Stream Problem Area Photos	Jordan Jones & Goulding Incorporated

7. Vegetation Cover-Poor 5/2006

8. Beaver Impoundment: Station 73+50 ft 11/15/2006

Upstream

Downstream

9. Beaver Impoundment: Station 75+00 ft 11/15/2006

Upstream

Downstream

10. Beaver Dam: Station 78+25 ft 11/15/2006

Looking Downstream at Beaver Dam

Looking Upstream at Beaver Dam

11. Beaver Dam: Station 98+25 ft 11/15/2006

Looking Upstream at Beaver Dam

Downstream of Beaver Dam

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B2. Representative Stream Problem Area Photos	Jordan Jones & Goulding Incorporated

12. Beaver Impoundment: Station 3+25 ft Tributary to Shepherds Tree

Upstream Downstream

13. Beaver Impoundment: Station 6+50 ft Confluence of Tributary to Shepherds Tree

11/15/2006Upstream Downstream

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B2. Representative Stream Problem Area Photos	Jordan Jones & Boulding Incorporated

Photo Point 1: Vegetation Plot-9/2006

Photo Point 2: Upstream-9/2006

Photo Point 2: Downstream-9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding Incorporated

Photo Point 3: Upstream-9/2006

Photo Point 3: Downstream-9/2006

Photo Point 4: Upstream-9/2006

Photo Point 4: Downstream-9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding Incorporated

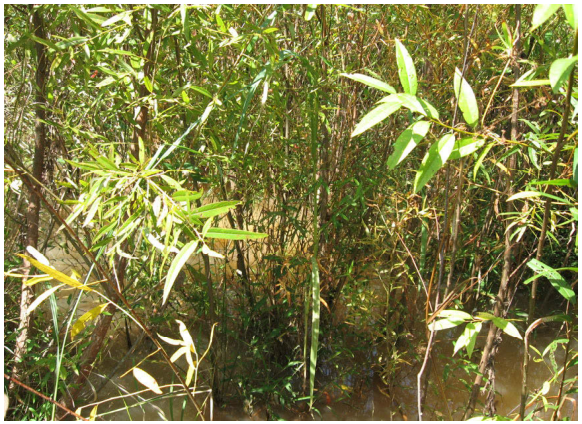


Photo Point 5: Upstream-9/2006

Photo Point 5: Downstream-9/2006

Photo Point 6: Upstream-9/2006

Photo Point 6: Downstream-9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding Incorporated

Photo Point 7: Upstream-9/2006

Photo Point 7: Downstream-9/2006

Photo Point 8: Upstream-9/2006

Photo Point 8: Downstream-9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding INCORPORATED

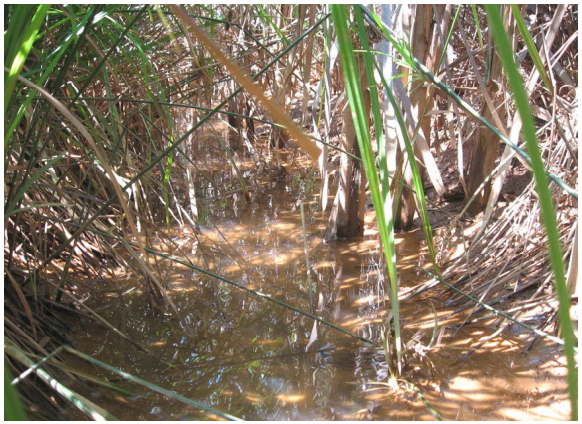


Photo Point 9: Upstream-9/2006

Photo Point 9: Downstream-9/2006

Photo Point 10: Upstream-9/2006

Photo Point 10: Downstream-9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding Incorporated

Photo Point 11: Upstream-9/2006

Photo Point 11: Downstream-9/2006

Photo Point 12: Upstream-9/2006

Photo Point 12: Downstream-9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding Incorporated

Photo Point 13: Upstream-9/2006

Photo Point 13: Downstream-9/2006

Photo Point 14: Upstream-9/2006

Photo Point 14: Downstream-9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding Incorporated

Photo Point 15: Upstream-9/2006

Photo Point 15: Downstream-9/2006

Photo Point 16: Upstream-9/2006

Photo Point 16: Downstream-9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding Incorporated

Photo Point 17: Upstream-9/2006

Photo Point 17: Downstream-9/2006

Photo Point 18: Vegetation Plot-9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding Incorporated

Photo Point 19: Upstream-9/2006

Photo Point 19: Downstream-9/2006

Photo Point 20: Upstream-9/2006

Photo Point 20: Downstream-9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding Incorporated

Photo Point 21: Upstream-9/2006

Photo Point 21: Downstream-9/2006

Photo Point 22: Upstream-9/2006

Photo Point 22: Downstream-9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding INCORPORATED

Photo Point 23: Upstream-9/2006

Photo Point 23: Downstream-9/2006

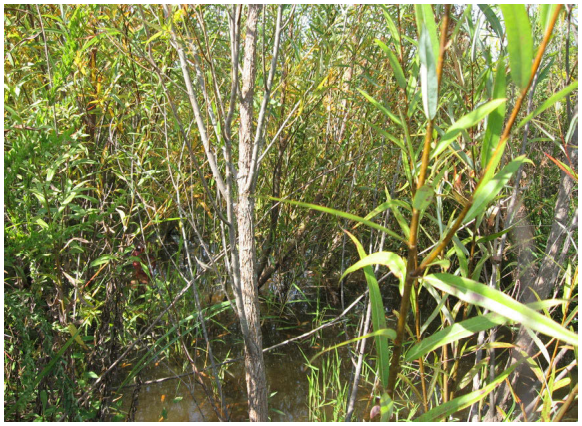


Photo Point 24: Upstream-9/2006

Photo Point 24: Downstream-9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding Incorporated

Photo Point 25: Upstream-9/2006

Photo Point 25: Downstream-9/2006

Photo Point 26: Upstream-9/2006

Photo Point 26: Downstream-9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding INCORPORATED

Photo Point 27: Upstream-4/2006

Photo Point 27: Downstream-4/2006

Photo Point 28: Upstream-4/2006

Photo Point 28: Downstream-4/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding INCORPORATED

Photo Point 29: Upstream-4/2006

Photo Point 29: Downstream-4/2006

Photo Point 30: 4/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding Incorporated

Photo Point 31: Upstream-9/2006

Photo Point 31: Downstream-9/2006

Photo Point 32: Upstream-9/2006

Photo Point 32: Downstream-9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding INCORPORATED

Photo Point 33: Upstream-9/2006

Photo Point 33: Downstream-9/2006

Photo Point 34: Upstream-9/2006

Photo Point 34: Downstream-9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding Incorporated

Photo Point 35: Upstream-9/2006

Photo Point 35: Downstream-9/2006

Photo Point 36: Upstream-9/2006

Photo Point 36: Downstream-9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding Incorporated

Photo Point 37: Upstream-9/2006

Photo Point 37: Downstream-9/2006

Photo Point 38: Upstream-9/2006

Photo Point 38: Downstream-9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding INCORPORATED

Photo Point 39: Upstream-9/2006

Photo Point 39: Downstream-9/2006

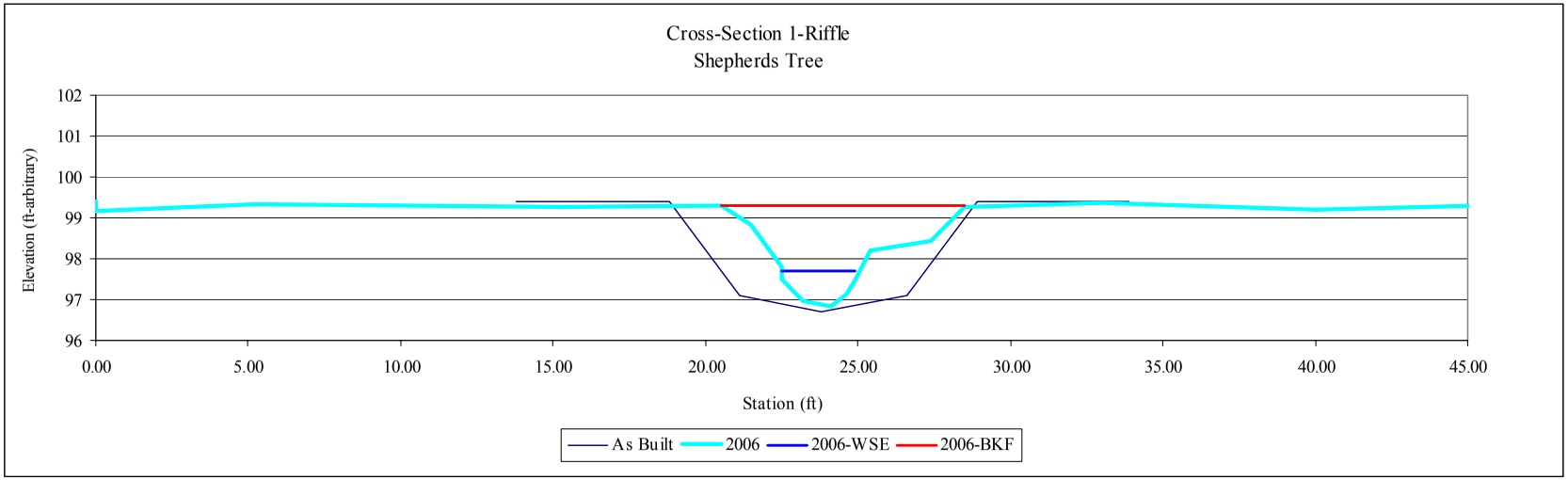
Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B3. Stream Photo Station Photos	Jordan Jones & Goulding Incorporated

Shepherds Tree/Project No. 333						
Upper Reach (1a)						
Feature Category		(# Stable) Number Performing as Intended	Total Number assessed per 2006 survey	Total Number/feet in unstable state	% Perform in Stable Condition	Feature Perform Mean or Total
A. Riffles	1. Present?	*	*	N/A	*	**0%**
	2. Armor Stable?					
	3. Facet grade appears stable?					
	4. Minimal evidence of embedding/fining?					
	5. Length appropriate?					
B. Pools	1. Present?	*	*	N/A	*	**0%**
	2. Sufficiently deep?					
	3. Length Appropriate?					
C. Thalweg	1. Upstream of meander bend centering?	*				
	2. Downstream of meander centering?					
D. Meanders	1. Outer bend in state of limited/controlled erosion?	19	19	N/A	100%	**100%**
	2. Of those eroding, # w/concomitant point bar formation?	N/A			N/A	
	3. Apparent Rc within spec?	19			100%	
	4. Sufficient floodplain access and relief?	19			100%	
E. Bed General	1. General channel bed aggradation areas (bar formation)?	N/A		9904/9904	0%	**50%**
	2. Channel bed degradation - areas of increasing down-cutting or head cutting?			0/9904	100%	
F. Vanes	1. Free of back or arm scour?	*	*	N/A	*	*
	2. Height appropriate?					
	3. Angle and geometry appear appropriate?					
	4. Free of piping or other structural failures?					
G. Wads/Boulders	1. Free of scour?	*	*	*	*	*
	2. Footing stable?					
H. Bank Performance	1. Actively eroding, wasting, or slumping bank	N/A	N/A	345/9904	98.25%	**98.25%**
Cells noted with a (N/A), data was not applicable						
Cells noted with a (*), features impacted by beaver activity; heavy sedimentation and backwater observed						

Shepherds Tree/Project No. 333						
Lower Reach (1b)						
Feature Category		(# Stable) Number Performing as Intended	Total Number assessed per 2006 survey	Total Number/feet in unstable state	% Perform in Stable Condition	Feature Perform Mean or Total
A. Riffles	1. Present?	0	0	N/A	0%	**0%**
	2. Armor Stable?					
	3. Facet grade appears stable?					
	4. Minimal evidence of embedding/fining?					
	5. Length appropriate?					
B. Pools	1. Present?	24	24	N/A	100%	**90.28%**
	2. Sufficiently deep?	17			71%	
	3. Length Appropriate?	24			100%	
C. Thalweg	1. Upstream of meander bend centering?	*				
	2. Downstream of meander centering?					
D. Meanders	1. Outer bend in state of limited/controlled erosion?	17	17	N/A	100%	**100%**
	2. Of those eroding, # w/concomitant point bar formation?	N/A			100%	
	3. Apparent Rc within spec?	17			100%	
	4. Sufficient floodplain access and relief?	17			100%	
E. Bed General	1. General channel bed aggradation areas (bar formation)?	0	17	17	0%	**50%**
	2. Channel bed degradation - areas of increasing down-cutting or head cutting?	17		0	100%	
F. Vanes	1. Free of back or arm scour?	5	5	N/A	100%	**100%**
	2. Height appropriate?	-			-	
	3. Angle and geometry appear appropriate?	-			-	
	4. Free of piping or other structural failures?	5			100%	
G. Wads/Boulders	1. Free of scour?	4*	4*	0*	100%*	**100%***
	2. Footing stable?					
H. Bank Performance	1. Actively eroding, wasting, or slumping bank	N/A	N/A	0/9904	100.00%	**100%**
Cells noted with a (N/A), data was not applicable						
Cells noted with a (*), features impacted by beaver activity; heavy sedimentation and backwater observed						

Project Name: Shepherds Tree					
Cross-Section: 1					
Feature: Riffle					
As Built			**2006**		
Station	**Elevation**	**Notes**	**Station**	**Elevation**	**Notes**
13.80	99.40		0.00	99.39	LEP, TOP
18.80	99.40		0.00	99.17	LEP, Ground
21.10	97.10		5.20	99.33	FP
23.80	96.70		15.30	99.28	FP
26.60	97.10		20.50	99.3	BKF
28.90	99.40		21.50	98.84	
33.90	99.40		22.50	97.81	
			22.50	97.51	SB
			23.20	96.97	SB
			24.10	96.85	TW
			24.60	97.14	SB
			24.90	97.45	SB
			25.40	98.2	Bench
			27.40	98.42	
			28.50	99.27	BKF
			33.00	99.38	
			40.00	99.21	
			49.00	99.37	REP, TOP
			49.00	99.53	REP, Ground

2006 Summary Data	
Bankfull Cross-Sectional Area	9.55
Bankfull Width	7.96
Bankfull Mean Depth	1.20
Bankfull Max Depth	2.43
Width/Depth Ratio	6.63
Entrenchment Ratio	>2.2



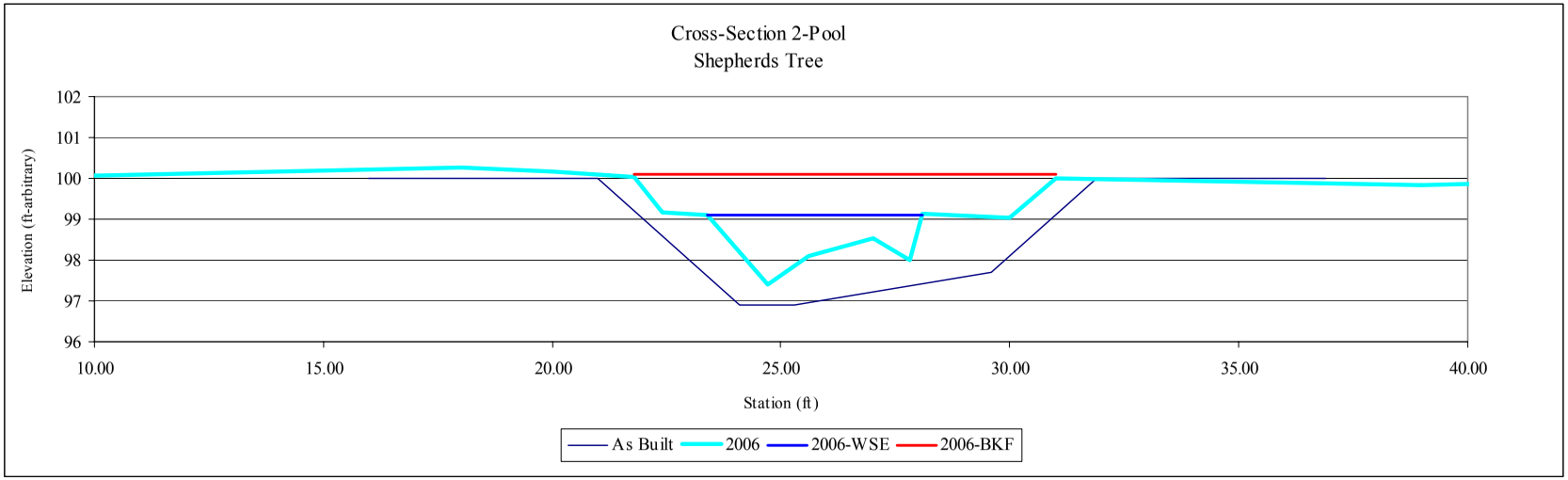
Cross-Section #1 Riffle: Upstream 01/2007

Cross-Section #1 Riffle: Downstream 01/2007

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B5. Cross-Section Plots and Raw Data Tables	Jordan Jones & Goulding

Project Name: Shepherds Tree					
Cross-Section: 2					
Feature: Pool					
As Built			**2006**		
Station	**Elevation**	**Notes**	**Station**	**Elevation**	**Notes**
16.00	100.00		0.00	99.84	LEP, Ground
21.00	100.00		10.00	100.06	FP
24.10	96.90		18.00	100.28	FP
25.30	96.90		20.00	100.17	
29.60	97.70		21.80	100.04	BKF
31.90	100.00		22.40	99.16	
36.90	100.00		23.40	99.1	LEW
			24.70	97.39	SB
			25.60	98.1	SB
			27.00	98.54	SB
			27.80	98.01	SB
			28.10	99.12	REW
			30.00	99.05	
			31.00	100.01	BKF
			39.00	99.82	FP
			46.00	100.05	FP
			51.60	100.1	REP, TOP
			51.60	99.87	REP, Ground

2006 Summary Data	
Bankfull Cross-Sectional Area	12.07
Bankfull Width	9.19
Bankfull Mean Depth	1.31
Bankfull Max Depth	2.64
Width/Depth Ratio	7.02
Entrenchment Ratio	N/A



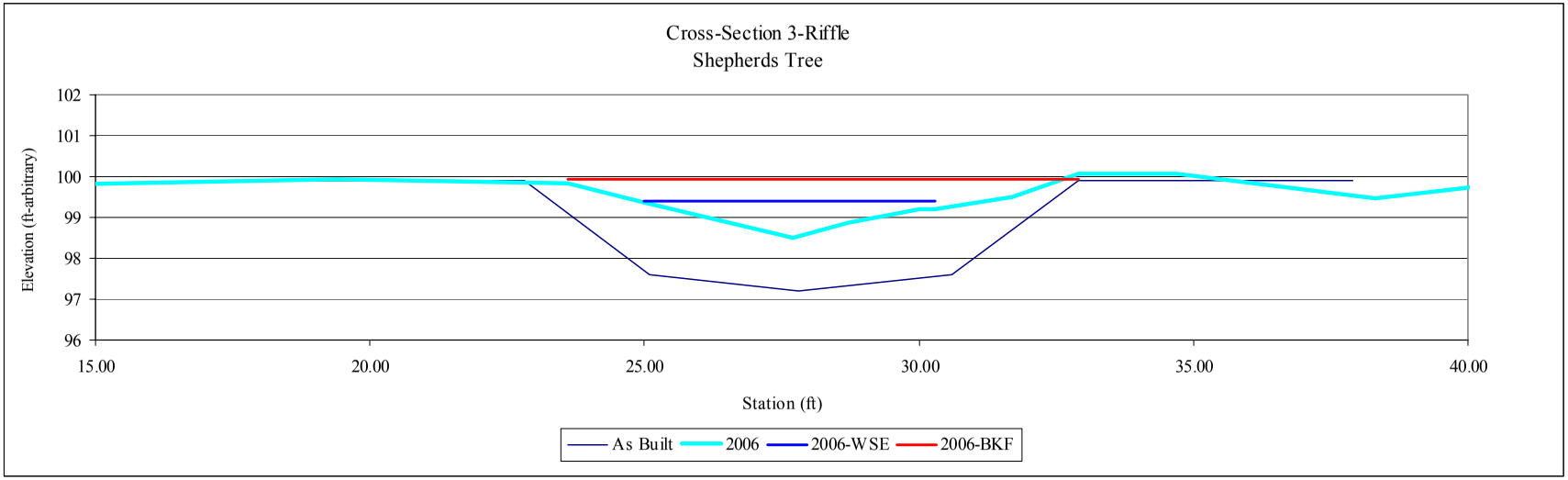
Cross-Section #2 Pool: Upstream 01/2007

Cross-Section #2 Pool: Downstream 01/2007

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B5. Cross-Section Plots and Raw Data Tables	Jordan Jones & Goulding

Project Name: Shepherds Tree					
Cross-Section: 3					
Feature: Riffle					
As Built			**2006**		
Station	**Elevation**	**Notes**	**Station**	**Elevation**	**Notes**
17.80	99.90		0.00	99.7	No pin
22.80	99.90		9.00	99.65	FP
25.10	97.60		19.40	99.92	FP
27.80	97.20		23.60	99.82	BKF
30.60	97.60		25.00	99.37	SB
32.90	99.90		27.70	98.49	TW
37.90	99.90		28.70	98.87	SB
			30.00	99.19	SB
			30.30	99.19	
			31.70	99.51	
			32.90	100.06	BKF
			34.70	100.07	FP
			38.30	99.48	FP
			42.00	100.04	FP
			54.00	99.86	REP, Ground
			54.10	100	REP, Top

2006 Summary Data	
Bankfull Cross-Sectional Area	6.86
Bankfull Width	9.04
Bankfull Mean Depth	0.76
Bankfull Max Depth	1.45
Width/Depth Ratio	11.89
Entrenchment Ratio	>2.2



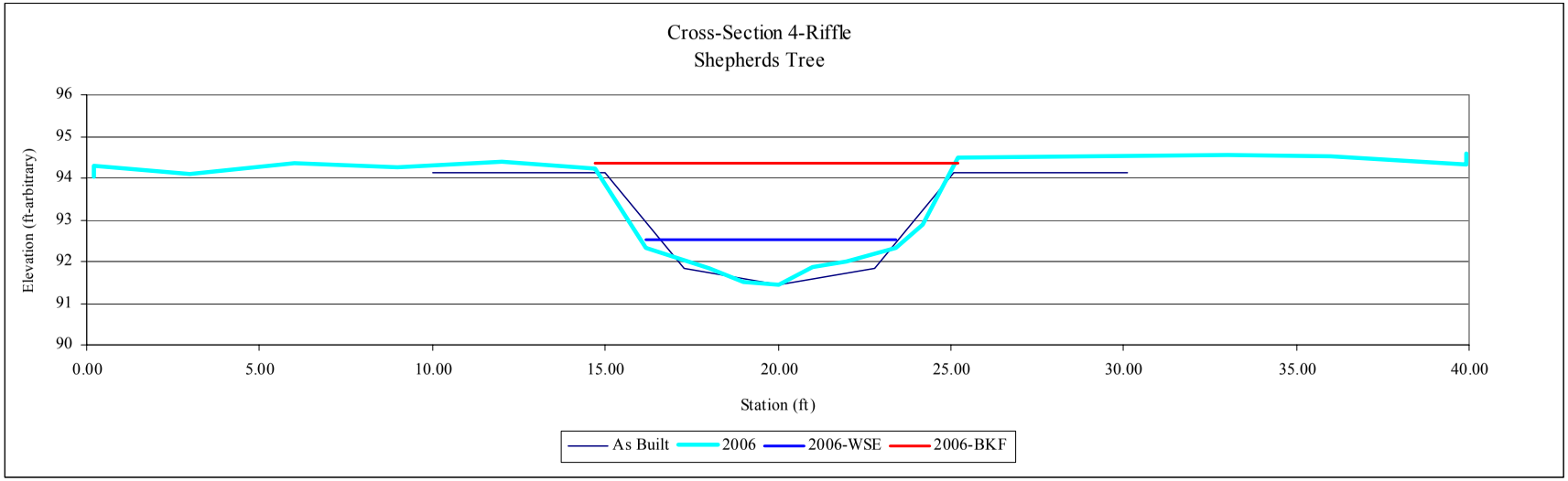
Cross-Section #3 Riffle: Upstream 01/2007

Cross-Section #3 Riffle: Downstream 01/2007

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B5. Cross-Section Plots and Raw Data Tables	Jordan Jones & Goulding Incorporated

Project Name: Shepherds Tree					
Cross-Section: 4					
Feature: Riffle					
As Built			**2006**		
Station	**Elevation**	**Notes**	**Station**	**Elevation**	**Notes**
10.00	94.14		0.20	94.02	grd elev
15.00	94.14		0.20	94.29	to pin
17.30	91.84		3.00	94.1	
20.00	91.44		6.00	94.37	
22.80	91.84		9.00	94.25	
25.10	94.14		12.00	94.38	
30.10	94.14		14.70	94.24	tob
			16.20	92.33	
			18.00	91.83	
			19.00	91.52	
			20.00	91.44	tw
			21.00	91.88	
			22.00	92.01	
			23.40	92.33	
			24.20	92.9	
			25.20	94.48	tob
			29.00	94.53	
			33.00	94.57	
			36.00	94.53	
			39.90	94.33	grd elev
			39.90	94.59	

2006 Summary Data	
Bankfull Cross-Sectional Area	21.41
Bankfull Width	10.42
Bankfull Mean Depth	2.05
Bankfull Max Depth	2.92
Width/Depth Ratio	5.08
Entrenchment Ratio	>2.2



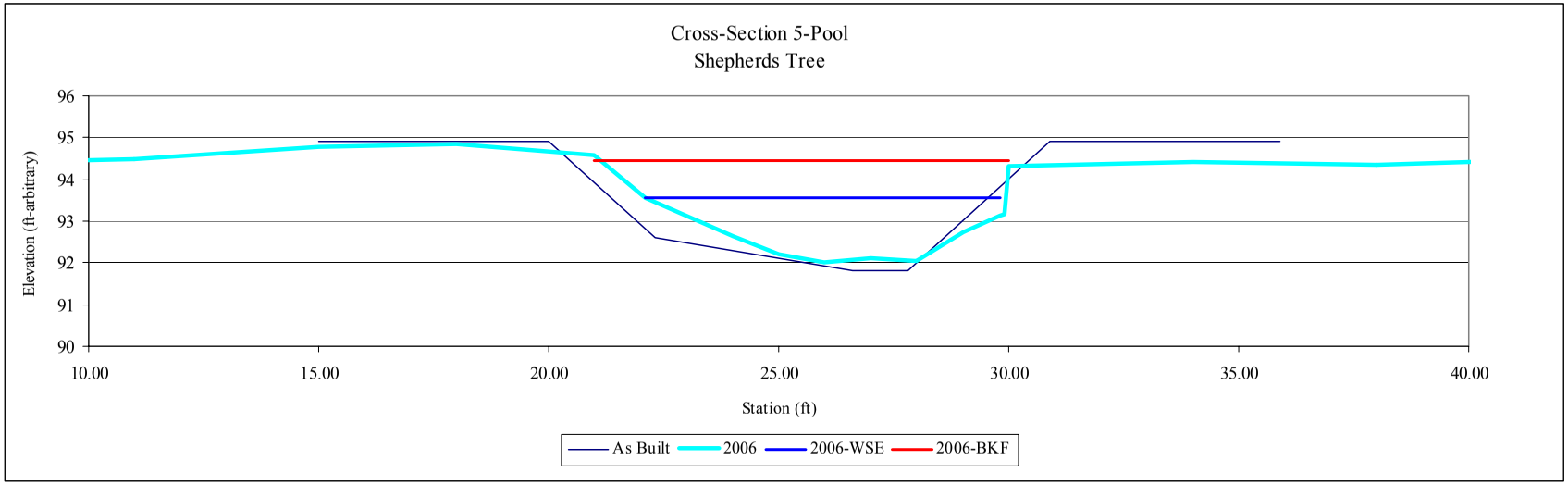
Cross-Section #4 Riffle: Upstream 01/2007

Cross-Section #4 Riffle: Downstream 01/2007

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B5. Cross-Section Plots and Raw Data Tables	Jordan Jones & Boulding Incorporated

Project Name: Shepherds Tree					
Cross-Section: 5					
Feature: Pool					
As Built			**2006**		
Station	**Elevation**	**Notes**	**Station**	**Elevation**	**Notes**
15.00	94.90		0.70	94.24	grd elev
20.00	94.90		0.70	94.42	to pin
22.30	92.60		3.00	94.26	
26.60	91.80		7.00	94.38	
27.80	91.80		11.00	94.5	
30.90	94.90		15.00	94.79	
35.90	94.90		18.00	94.83	
			21.00	94.57	tob
			22.10	93.56	ws
			24.00	92.63	
			25.00	92.21	
			26.00	92.02	tw
			27.00	92.12	
			28.00	92.06	
			29.00	92.73	
			29.80	93.13	
			29.90	93.15	
			30.00	94.31	tob
			34.00	94.41	
			38.00	94.35	
			42.00	94.49	
			46.00	94.40	
			50.30	94.11	grd elev
			50.30	94.30	

2006 Summary Data	
Bankfull Cross-Sectional Area	15.5
Bankfull Width	8.86
Bankfull Mean Depth	1.75
Bankfull Max Depth	2.42
Width/Depth Ratio	5.06
Entrenchment Ratio	N/A



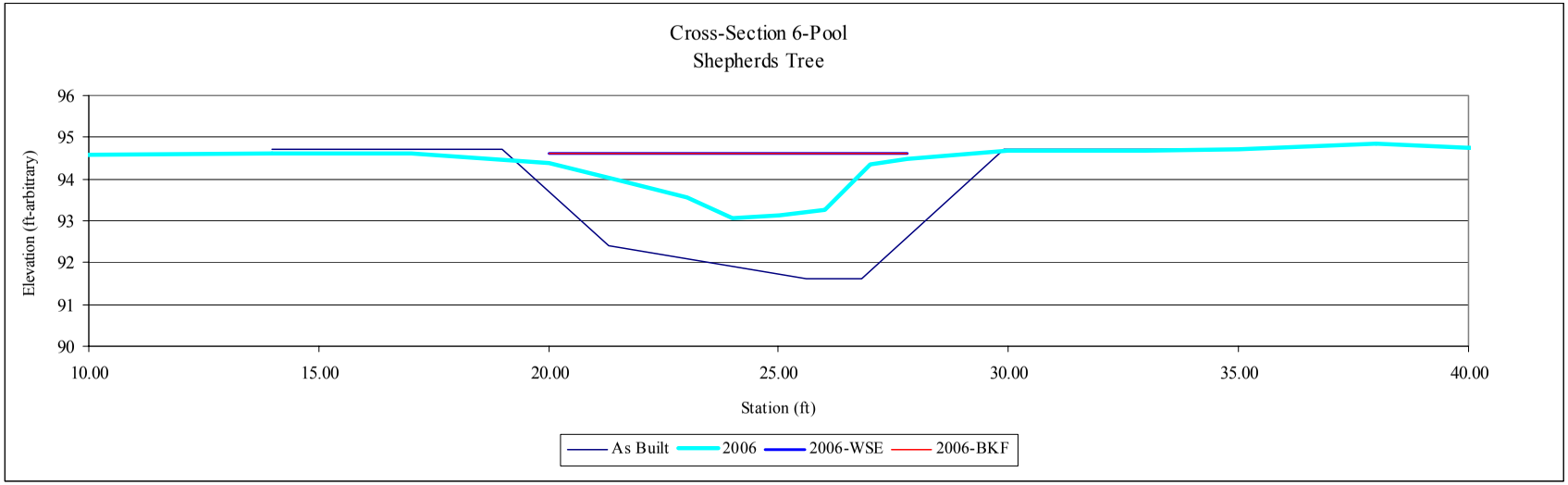
Cross-Section #5 Pool: Upstream 01/2007

Cross-Section #5 Pool: Downstream 01/2007

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B5. Cross-Section Plots and Raw Data Tables	Jordan Jones & Goulding

Project Name: Shepherds Tree					
Cross-Section: 6					
Feature: Pool					
As Built			**2006**		
Station	**Elevation**	**Notes**	**Station**	**Elevation**	**Notes**
14.00	94.70		1.00	94.42	grd elev
19.00	94.70		1.00	94.7	to pin
21.30	92.40		4.00	94.49	
25.60	91.60		7.00	94.51	
26.80	91.60		10.00	94.58	
29.90	94.70		14.00	94.61	
34.90	94.70		17.00	94.63	
			20.00	94.37	
			21.60	93.94	
			23.00	93.56	
			24.00	93.07	tw
			25.00	93.14	
			26.00	93.25	
			27.00	94.34	
			27.80	94.48	
			30.00	94.67	
			33.00	94.67	
			35.00	94.71	
			38.00	94.84	
			40.00	94.76	
			43.40	94.76	grd elev
			43.40	94.95	

2006 Summary Data	
Bankfull Cross-Sectional Area	7.44
Bankfull Width	7.80
Bankfull Mean Depth	0.95
Bankfull Max Depth	1.59
Width/Depth Ratio	8.21
Entrenchment Ratio	N/A



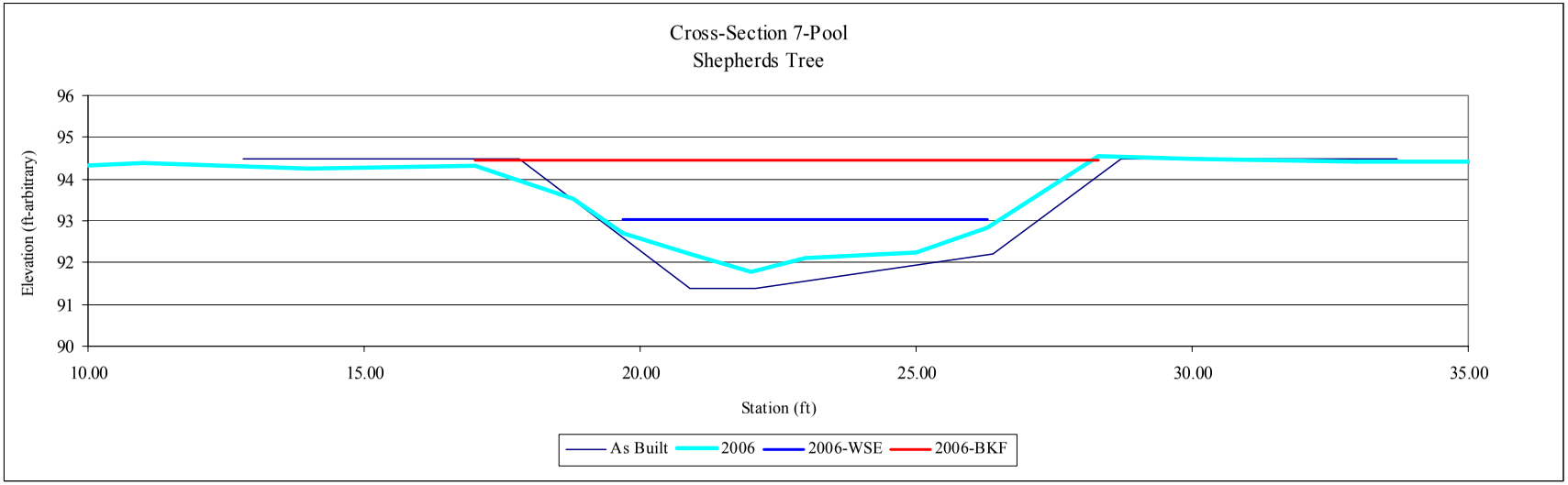
Cross-Section #6 Pool: Upstream 01/2007

Cross-Section #6 Pool: Downstream 01/2007

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B5. Cross-Section Plots and Raw Data Tables	Jordan Jones & Goulding

Project Name: Shepherds Tree					
Cross-Section: 7					
Feature: Pool					
As Built			**2006**		
Station	**Elevation**	**Notes**	**Station**	**Elevation**	**Notes**
12.80	94.50		0.50	93.97	grd elev
17.80	94.50		0.50	94.13	to pin
20.90	91.40		3.00	94.05	
22.10	91.40		7.00	94.15	
26.40	92.20		11.00	94.39	
28.70	94.50		14.00	94.26	
33.70	94.50		17.00	94.33	tob
			18.80	93.53	
			19.70	92.71	
			20.90	92.21	
			22.00	91.79	tw
			23.00	92.11	
			25.00	92.25	
			26.30	92.82	
			28.30	94.55	tob
			30.00	94.49	
			33.00	94.41	
			37.00	94.41	
			39.00	94.53	
			41.40	94.53	grd elev
			41.40	94.75	

2006 Summary Data	
Bankfull Cross-Sectional Area	18.04
Bankfull Width	11.17
Bankfull Mean Depth	1.61
Bankfull Max Depth	2.65
Width/Depth Ratio	6.94
Entrenchment Ratio	N/A



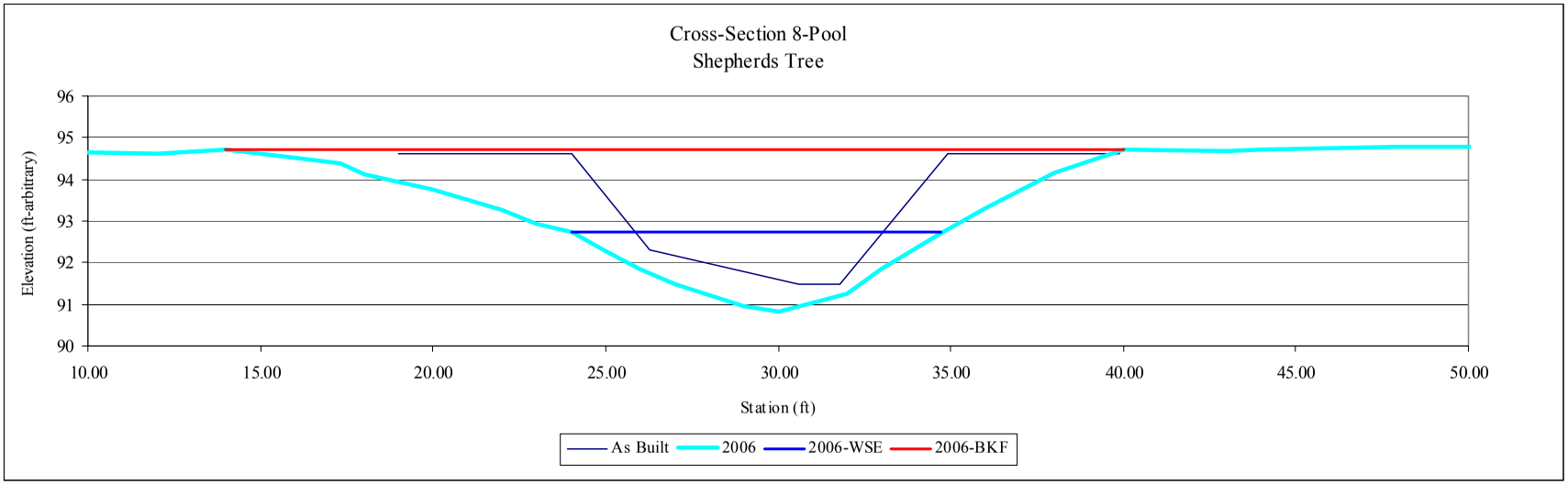
Cross-Section #7 Pool: Upstream 12/2006

Cross-Section #7 Pool: Downstream 12/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B5. Cross-Section Plots and Raw Data Tables	Jordan Jones & Boulding Incorporated

Project Name: Shepherds Tree					
Cross-Section: 8					
Feature: Pool					
As Built			2006		
Station	Elevation	Notes	Station	Elevation	Notes
19.00	94.60		0.30	94.8	lpin grd
24.00	94.60		0.30	94.89	lpin top
26.30	92.30		2.00	94.74	
30.60	91.50		4.00	94.76	
31.80	91.50		6.00	94.62	
34.90	94.60		8.00	94.56	
39.90	94.60		10.00	94.66	
			12.00	94.6	
			14.00	94.71	ltob
			16.00	94.52	
			17.30	94.4	
			18.00	94.12	
			20.00	93.75	
			22.00	93.25	
			23.00	92.95	
			24.00	92.72	lew-ws
			25.00	92.27	
			26.00	91.84	
			27.00	91.49	
			29.00	90.94	
			30.00	90.82	
			32.00	91.26	
			33.00	91.83	
			34.70	92.71	rew-ws
			35.20	92.93	
			36.00	93.30	
			38.00	94.17	
			40.00	94.73	rtob
			43.00	94.67	
			44.00	94.71	
			48.00	94.78	
			50.00	94.79	
			52.00	94.86	
			54.00	94.83	
			56.50	94.75	rpingrd
			56.50	94.92	

2006 Summary Data	
Bankfull Cross-Sectional Area	46.62
Bankfull Width	25.96
Bankfull Mean Depth	1.80
Bankfull Max Depth	3.90
Width/Depth Ratio	14.42
Entrenchment Ratio	N/A



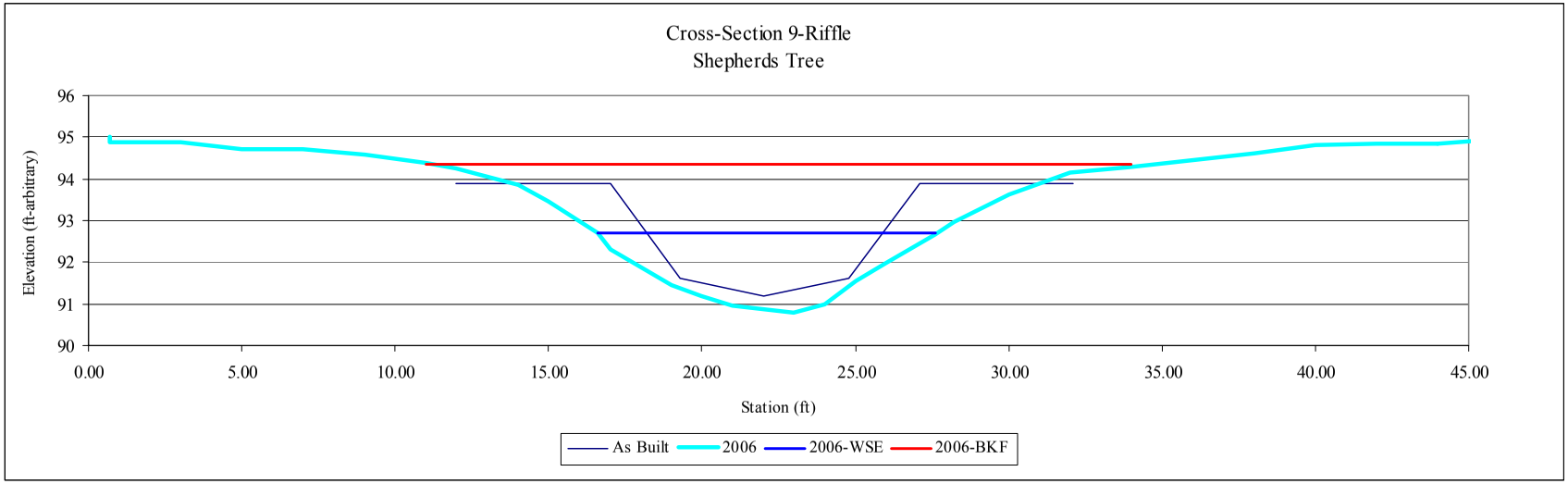
Cross-Section #8 Pool: Upstream 01/2007

Cross-Section #8 Pool: Downstream 01/2007

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B5. Cross-Section Plots and Raw Data Tables	Jordan Jones & Goulding INCORPORATED

Project Name: Shepherds Tree					
Cross-Section: 9					
Feature: Riffle					
As Built			**2006**		
Station	**Elevation**	**Notes**	**Station**	**Elevation**	**Notes**
12.00	93.90		0.70	95.02	lpintoop
17.00	93.90		0.70	94.88	lpingrd
19.30	91.60		3.00	94.87	
22.00	91.20		5.00	94.7	
24.80	91.60		7.00	94.7	
27.10	93.90		9.00	94.58	
32.10	93.90		11.00	94.39	tob bkf
			12.00	94.26	
			14.00	93.85	
			15.00	93.46	
			16.60	92.69	lew-ws
			17.00	92.31	
			19.00	91.44	
			20.00	91.19	
			21.00	90.95	
			23.00	90.78	
			24.00	90.99	
			25.00	91.56	
			26.00	91.98	
			27.60	92.68	rew-ws
			28.20	92.97	
			30.00	93.62	
			32.00	94.15	
			34.00	94.29	tob bkf
			38.00	94.63	
			40.00	94.81	
			42.00	94.83	
			44.00	94.83	
			47.00	95.01	
			48.00	95.00	
			50.00	95.04	
			52.00	95.06	
			52.70	94.93	rpin grd
			52.70	95.13	

2006 Summary Data	
Bankfull Cross-Sectional Area	38.46
Bankfull Width	22.62
Bankfull Mean Depth	1.70
Bankfull Max Depth	3.56
Width/Depth Ratio	13.31
Entrenchment Ratio	>2.2



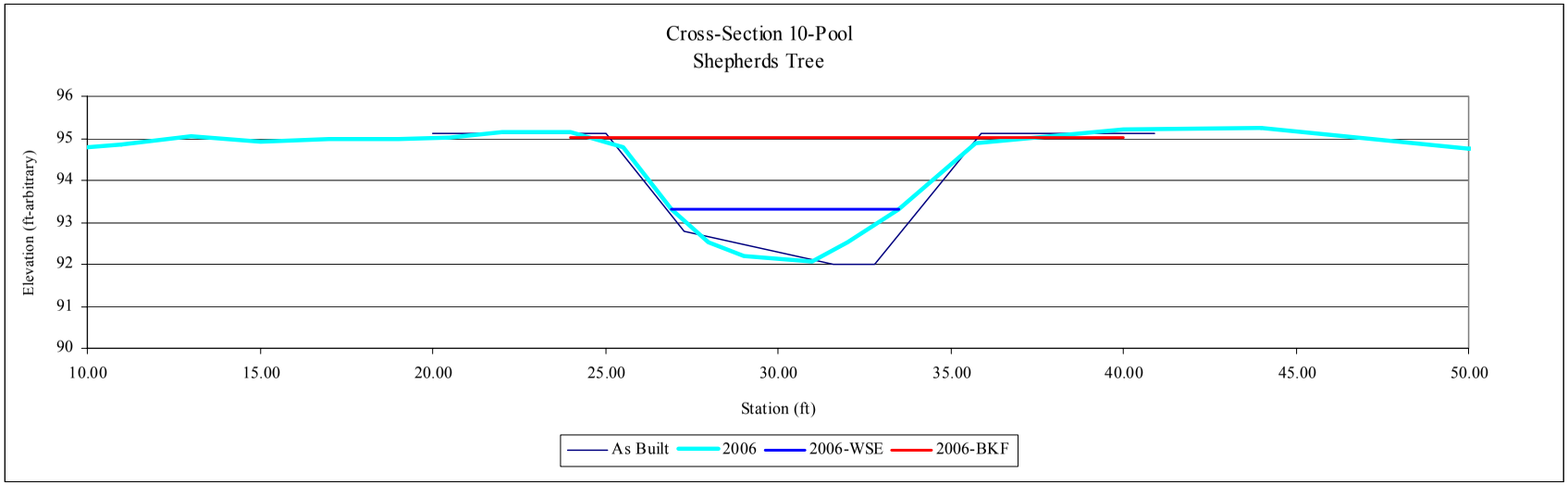
Cross-Section #9 Riffle: Upstream 01/2007

Cross-Section #9 Riffle: Downstream 01/2007

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B5. Cross-Section Plots and Raw Data Tables	Jordan Jones & Goulding

Project Name: Shepherds Tree					
Cross-Section: 10					
Feature: Pool					
As Built			**2006**		
Station	**Elevation**	**Notes**	**Station**	**Elevation**	**Notes**
20.00	95.10		1.50	95.08	lpin grd
25.00	95.10		1.50	95.11	lpin top
27.30	92.80		3.00	95.24	
31.60	92.00		5.00	95.32	
32.80	92.00		6.00	94.89	
35.90	95.10		7.00	94.68	
40.90	95.10		9.00	94.72	
			11.00	94.86	
			13.00	95.04	
			15.00	94.92	
			17.00	95	
			19.00	94.98	
			20.50	95.01	
			22.00	95.16	
			24.00	95.16	ltob bkf
			25.50	94.8	
			26.90	93.32	lew-ws
			28.00	92.52	
			29.00	92.19	
			31.00	92.06	
			32.00	92.54	
			33.50	93.32	rew-ws
			35.70	94.88	
			40.00	95.20	rtob bkf
			44.00	95.25	
			50.00	94.75	
			55.00	94.90	
			60.00	95.25	rt]pin top
			60.00	95.15	

2006 Summary Data	
Bankfull Cross-Sectional Area	22.52
Bankfull Width	15.73
Bankfull Mean Depth	1.43
Bankfull Max Depth	3.12
Width/Depth Ratio	11.00
Entrenchment Ratio	N/A



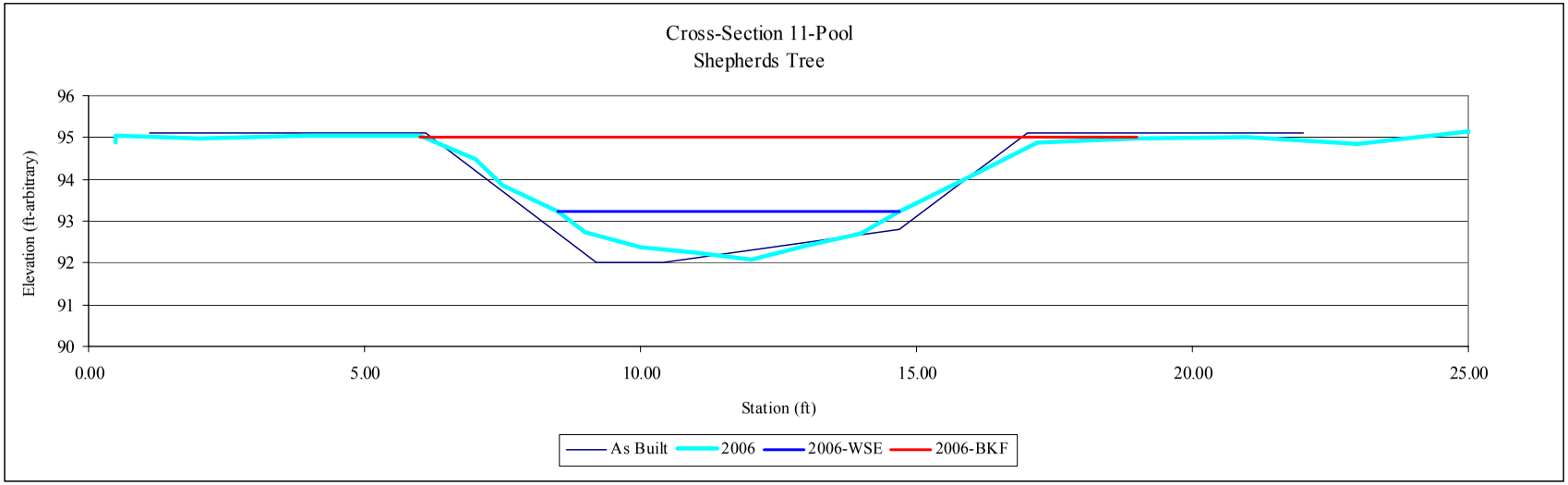
Cross-Section #10 Pool: Upstream 01/2007

Cross-Section #10 Pool: Downstream 01/2007

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B5. Cross-Section Plots and Raw Data Tables	Jordan Jones & Goulding

Project Name: Shepherds Tree					
Cross-Section: 11					
Feature: Pool					
As Built			**2006**		
Station	**Elevation**	**Notes**	**Station**	**Elevation**	**Notes**
1.10	95.10		0.50	94.88	lpin grd
6.10	95.10		0.50	95.03	lpin top
9.20	92.00		2.00	94.98	
10.40	92.00		4.00	95.04	
14.70	92.80		6.00	95.03	ltob
17.00	95.10		7.00	94.47	
22.00	95.10		7.50	93.87	
			8.50	93.22	lew-ws
			9.00	92.72	
			10.00	92.36	
			11.00	92.23	
			12.00	92.07	
			13.00	92.41	tw
			14.00	92.7	
			14.70	93.22	rew-ws
			15.00	93.43	
			16.00	94.1	
			17.20	94.87	
			19.00	94.99	rtob-bkf
			21.00	95.01	
			23.00	94.86	
			25.00	95.15	
			27.00	95.08	
			29.00	94.99	
			31.00	94.90	
			32.70	94.97	rpingrd
			32.70	95.09	

2006 Summary Data	
Bankfull Cross-Sectional Area	20.39
Bankfull Width	12.96
Bankfull Mean Depth	1.57
Bankfull Max Depth	2.94
Width/Depth Ratio	8.25
Entrenchment Ratio	N/A



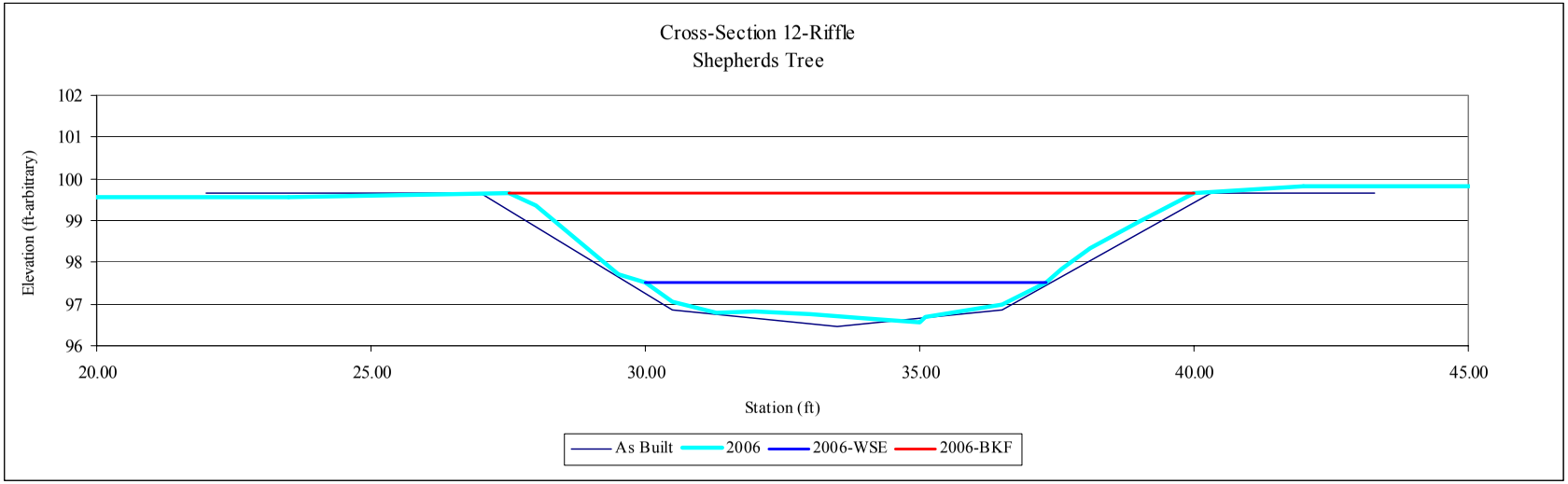
Cross-Section #11 Pool: Upstream 01/2007

Cross-Section #11 Pool: Downstream 01/2007

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B5. Cross-Section Plots and Raw Data Tables	Jordan Jones & Goulding

Project Name: Shepherds Tree					
Cross-Section: 12					
Feature: Riffle					
As Built			**2006**		
Station	**Elevation**	**Notes**	**Station**	**Elevation**	**Notes**
22.00	99.66		0.00	99.92	
27.00	99.66		1.00	99.86	
30.50	96.86		6.00	99.86	
33.50	96.46		10.00	99.80	
36.50	96.86		15.00	99.67	
40.30	99.66		20.00	99.57	
43.30	99.66		23.50	99.55	
			27.50	99.66	BKF
			28.00	99.35	
			29.50	97.73	
			30.00	97.52	LEW
			30.50	97.06	
			31.30	96.80	
			32.00	96.81	
			33.00	96.75	
			34.00	96.67	
			35.00	96.56	tw
			35.10	96.70	
			36.50	96.98	
			37.30	97.52	REW
			37.60	97.84	
			38.10	98.35	
			39.00	98.97	
			40.00	99.66	BKF
			42.00	99.84	
			47.00	99.81	
			50.00	99.87	
			55.00	100.18	
			58.00	100.15	
			60.00	100.19	
			62.00	100.27	
			64.00	100.32	
			66.00	100.34	
			68.00	100.33	
			70.00	100.35	
			75.60	100.19	
			75.60	100.32	

2006 Summary Data	
Bankfull Cross-Sectional Area	25.81
Bankfull Width	12.50
Bankfull Mean Depth	2.06
Bankfull Max Depth	3.10
Width/Depth Ratio	6.07
Entrenchment Ratio	>2.2



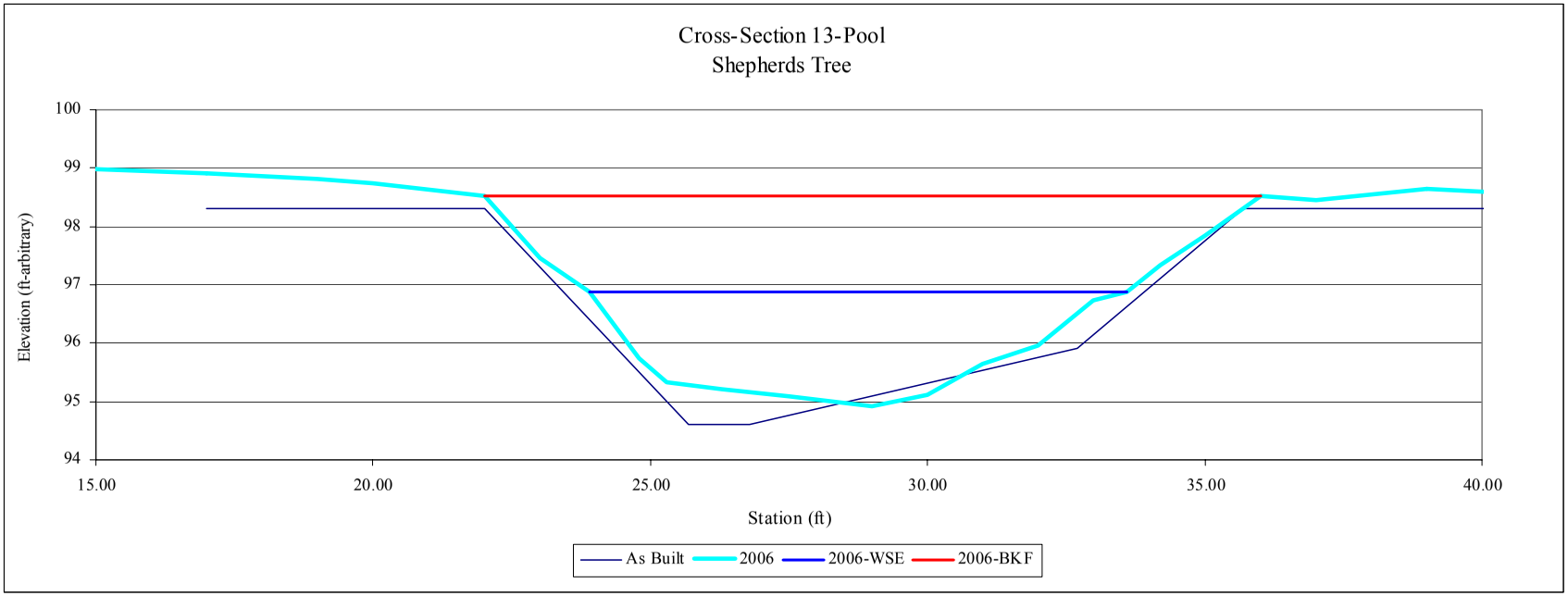
Cross-Section #12 Riffle: Upstream 9/2006

Cross-Section #12 Riffle: Downstream 9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B5. Cross-Section Plots and Raw Data Tables	Jordan Jones & Boulding Incorporated

Project Name: Shepherds Tree					
Cross-Section: 13					
Feature: Pool					
As Built			2006		
Station	Elevation	Notes	Station	Elevation	Notes
17.00	98.30		0.60	99.89	lpg-top
22.00	98.30		2.00	99.89	
25.70	94.60		4.00	99.82	
26.80	94.60		5.00	99.63	
32.70	95.90		7.00	99.58	
35.70	98.30		9.00	99.54	
40.70	98.30		11.00	99.43	
			13.00	99.17	
			15.00	98.99	
			17.00	98.92	
			19.00	98.82	
			20.00	98.75	
			22.00	98.53	ltob/bkf
			23.00	97.47	
			23.90	96.87	lew/ws
			24.80	95.73	
			25.30	95.33	
			26.30	95.20	
			27.50	95.09	
			29.00	94.93	
			30.00	95.12	
			31.00	95.65	
			32.00	95.97	
			33.00	96.74	
			33.60	96.87	rew/ws
			34.20	97.33	
			35.00	97.85	
			36.00	98.53	rtob/bkf
			37.00	98.44	
			39.00	98.65	
			41.00	98.56	
			43.00	98.58	
			45.00	98.68	
			47.00	98.75	
			49.00	98.65	
			53.00	98.65	
			56.00	98.78	
			58.00	99.01	
			60.00	99.05	
			62.00	98.98	
			63.70	98.81	rpin g
			63.70	99.11	

2006 Summary Data	
Bankfull Cross-Sectional Area	32.40
Bankfull Width	14.00
Bankfull Mean Depth	2.31
Bankfull Max Depth	3.60
Width/Depth Ratio	6.06
Entrenchment Ratio	N/A



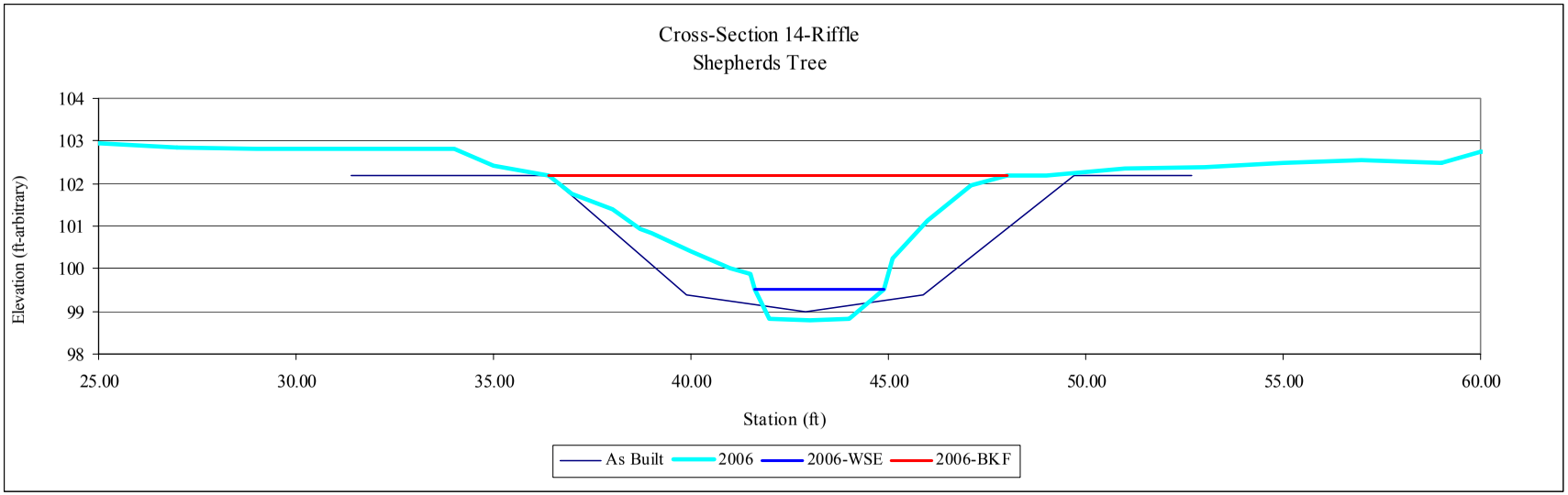
Cross-Section #13 Pool: Upstream 9/2006

Cross-Section #13 Pool: Downstream 9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B5. Cross-Section Plots and Raw Data Tables	Jordan Jones & Goulding, Incorporated

Project Name: Shepherds Tree					
Cross-Section: 14					
Feature: Riffle					
As Built			2006		
Station	Elevation	Notes	Station	Elevation	Notes
31.40	102.2		0.40	103.39	lpg
36.40	102.20		0.40	103.58	lpt
39.90	99.40		2.00	103.45	
42.90	99.00		5.00	103.34	
45.90	99.40		8.00	103.20	
49.70	102.2		11.00	103.13	
52.70	102.2		13.00	103.11	
			15.00	104.08	
			17.00	103.03	
			19.00	103.02	
			21.00	103.20	
			23.00	103.11	
			25.00	102.96	
			27.00	102.86	
			29.00	102.82	
			31.00	102.82	
			34.00	102.82	
			35.00	102.43	
			36.40	102.20	BKF
			37.00	101.76	
			38.00	101.38	
			38.70	100.92	
			39.00	100.83	
			40.00	100.41	
			41.00	100.02	
			41.50	99.88	
			41.60	99.52	lew/ws
			42.00	98.83	
			43.00	98.78	
			44.00	98.84	
			44.90	99.52	rew/ws
			45.10	100.25	
			46.00	101.14	
			47.10	101.95	
			48.00	102.20	BKF
			49.00	102.20	
			51.00	102.34	
			53.00	102.38	
			55.00	102.50	
			57.00	102.56	
			59.00	102.48	
			60.00	102.74	
			62.00	102.77	
			63.00	102.61	
			65.00	102.61	
			66.60	102.51	
			67.00	102.40	
			68.00	102.61	
			70.00	102.76	
			72.00	102.76	
			73.90	102.82	rpg
			73.90	103.03	

2006 Summary Data	
Bankfull Cross-Sectional Area	20.2
Bankfull Width	11.6
Bankfull Mean Depth	1.74
Bankfull Max Depth	3.42
Width/Depth Ratio	6.67
Entrenchment Ratio	>2.2



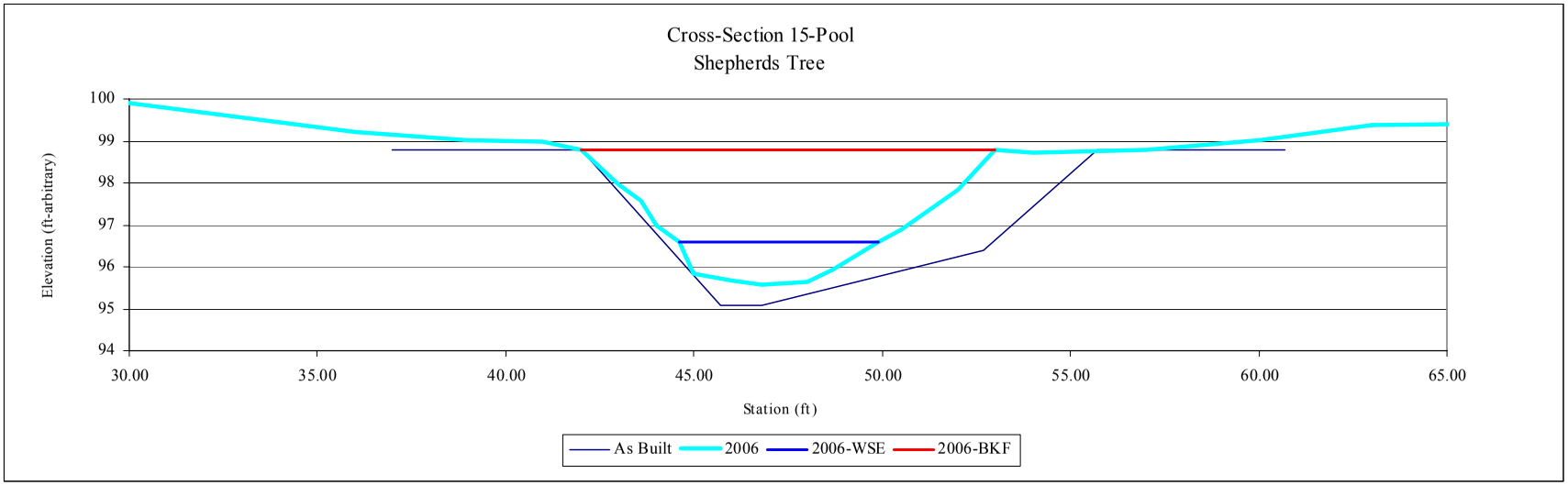
Cross-Section #14 Riffle: Upstream 9/2006

Cross-Section #14 Riffle: Downstream 9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B5. Cross-Section Plots and Raw Data Tables	Jordan Jones & Goulding INCORPORATED

Project Name: Shepherds Tree					
Cross-Section: 15					
Feature: Pool					
As Built			**2006**		
Station	**Elevation**	**Notes**	**Station**	**Elevation**	**Notes**
37.00	98.78		0.70	100	lpt
42.00	98.78		0.80	100.1	lpg
45.70	95.08		4.00	99.88	
46.80	95.08		6.00	99.75	
52.70	96.38		10.00	99.86	
55.70	98.78		15.00	99.87	
60.70	98.78		19.00	99.83	
			30.00	99.9	
			36.00	99.21	
			39.00	99.01	
			41.00	98.98	
			42.00	98.78	lbkf
			43.00	97.97	
			43.60	97.57	
			44.00	96.98	
			44.60	96.58	lew/ws
			45.00	95.85	
			46.00	95.67	
			46.80	95.57	
			48.00	95.65	
			48.70	95.94	
			49.90	96.58	rew/ws
			50.50	96.9	
			51.20	97.32	
			52.00	97.85	
			53.00	98.78	rbkf
			54.00	98.72	
			57.00	98.79	
			60.00	99.02	
			63	99.37	
			66	99.4	
			69	99.47	
			73	99.49	
			76	99.53	
			78	100.4	
			81	99.84	
			83.7	99.94	lpg
			83.7	100.06	

2006 Summary Data	
Bankfull Cross-Sectional Area	22.12
Bankfull Width	11.00
Bankfull Mean Depth	2.01
Bankfull Max Depth	3.21
Width/Depth Ratio	5.47
Entrenchment Ratio	N/A



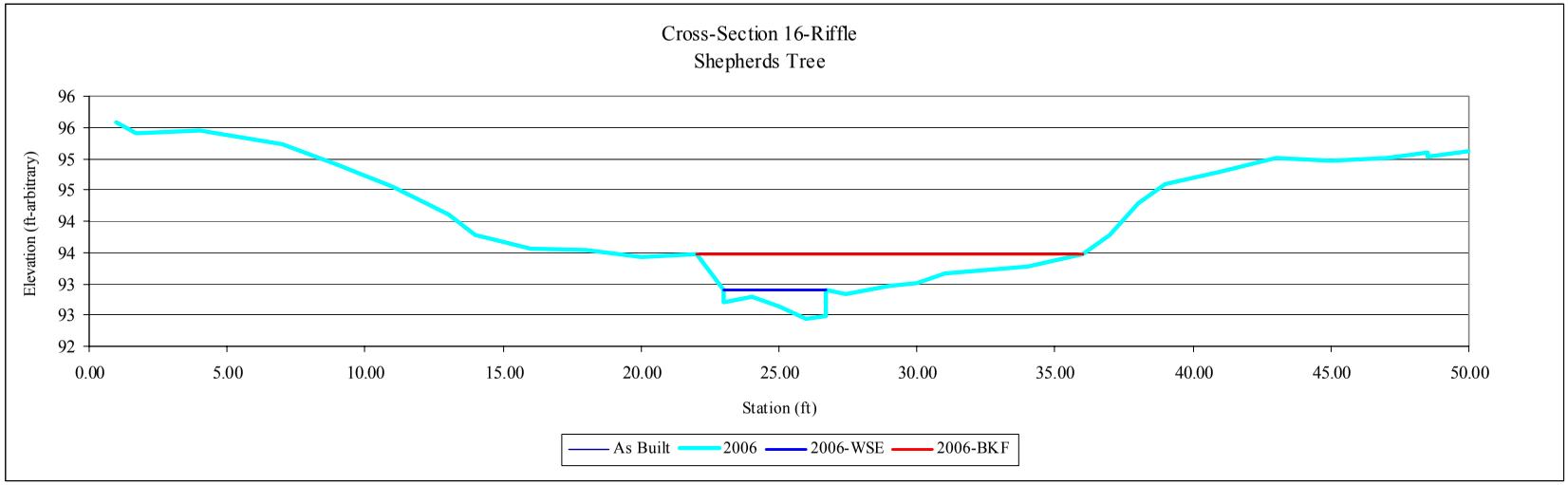
Cross-Section #15 Pool: Upstream 9/2006

Cross-Section #15 Pool: Downstream 9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B5. Cross-Section Plots and Raw Data Tables	Jordan Jones & Goulding

Project Name: Shepherds Tree					
Cross-Section: 16					
Feature: Riffle					
As Built			**2006**		
Station	**Elevation**	**Notes**	**Station**	**Elevation**	**Notes**
			1.00	95.58	ltop
			1.70	95.4	
			4.00	95.44	
			7.00	95.24	ltob
			9.00	94.9	
			11.00	94.56	
			13.00	94.1	
			14.00	93.79	
			16.00	93.55	
			18.00	93.54	
			20.00	93.42	
			22.00	93.48	bkf
			23.00	92.9	lew-ws
			23.00	92.7	
			24.00	92.79	
			25.00	92.63	
			26.00	92.43	tw
			26.70	92.49	
			26.70	92.90	rew-ws
			27.40	92.83	
			29.00	92.96	
			30.00	93.01	
			31.00	93.17	
			34.00	93.27	
			36.00	93.48	bkf
			37.00	93.78	
			38.00	94.29	
			39.00	94.60	
			41.00	94.80	
			43.00	95.01	
			45.00	94.96	
			47.00	95.01	
			48.50	95.09	rtop
			48.50	95.03	rpingrd
			50.00	95.13	

2006 Summary Data	
Bankfull Cross-Sectional Area	6.70
Bankfull Width	14.00
Bankfull Mean Depth	0.48
Bankfull Max Depth	1.05
Width/Depth Ratio	29.17
Entrenchment Ratio	1.97



Cross-Section #16 Trib Riffle: Upstream 9/2006

Cross-Section #16 Trib Riffle: Downstream 9/2006

Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B5. Cross-Section Plots and Raw Data Tables	Jordan Jones & Goulding

Reach 1

2006				
Station	TW-2006	WS-2006	BKF/TOB-2006	Notes
0	98.47	98.88	100.18	
14.6	98.14	98.9		
18.5	97.77	98.9	100.04	
23	98.07	98.9		
44	97.7	98.87		
65	98.26	98.84		
94	98.36	98.82		U/S 8 ft of dam, 1 ft of sed dep
100.8	98.12	98.72		Buried CV Invert at TW (Beaver dam)
107	97.06	98.02	99.21	
134	96.85	97.72	99.27	
157	97.18	97.57	99.28	
181	96.79	97.52		
200	96.83	97.42	98.84	
226	96.74	97.48	98.92	
251	96.84	97.29	98.68	
272	96.36	97.25	98.63	Max Pool
290	96.74	97.23	98.42	
308	96.56	97.23	98.1	
327	96.6	97.22	98.39	
352	96.64	97.14	98.33	
378	95.78	97.23	98.24	
410	95.72	96.74	97.99	
435	95.73	96.78	97.93	
487	95.83	96.73	97.72	
507	95.84	96.53	97.56	
596	95.65	96.48	97.2	
633	95.47	96.46	97.05	
681	94.93	96.44	96.97	
709	95.12	96.44		
725	95.88	96.41		Head of Riffle (Former beaver dam with notch cut in it)
736.5	95.69	96.3	96.8	End of Riffle
759	95.49	96.23	96.72	
791	95.3	96.2	96.72	
820	95.19	96.19	96.62	
864.5	95.34	96.13	96.5	
900	95.39	96.1	96.47	Cat tails are growing abundantly in stream.
917	95.24	96.1	96.73	
956	95.1	96.04	96.53	
999	95.04	96	96.59	

Reach 1

2006				
Station	**TW-2006**	**WS-2006**	**BKF/TOB-2006**	**Notes**
1030	94.96	95.94	96.5	
1064	95.06	95.94	96.46	
1104.4	95.01	95.91	96.58	Cat-tails
1130	94.69	95.86	96.02	Buried CV, Sed dep on CV.
1182	95.01	95.84	96.38	
1215	95.01	95.81	96.42	Buried CV, Can see arms though.
1240	95.01	95.8	96.61	
1268.5	94.38	95.71	96.44	
1302	94.31	95.7	96.18	Max Pool
1347	94.77	95.64	96.36	
1393	94.78	95.63	96.48	
1424	94.69	95.63	96.36	
1468	94.68	95.56	96.59	
1490	94.73	95.56		
1516	94.68	95.56	96.91	
1571	94.63	95.48	96.24	
1600	94.6	95.48	96.37	

Reach 2

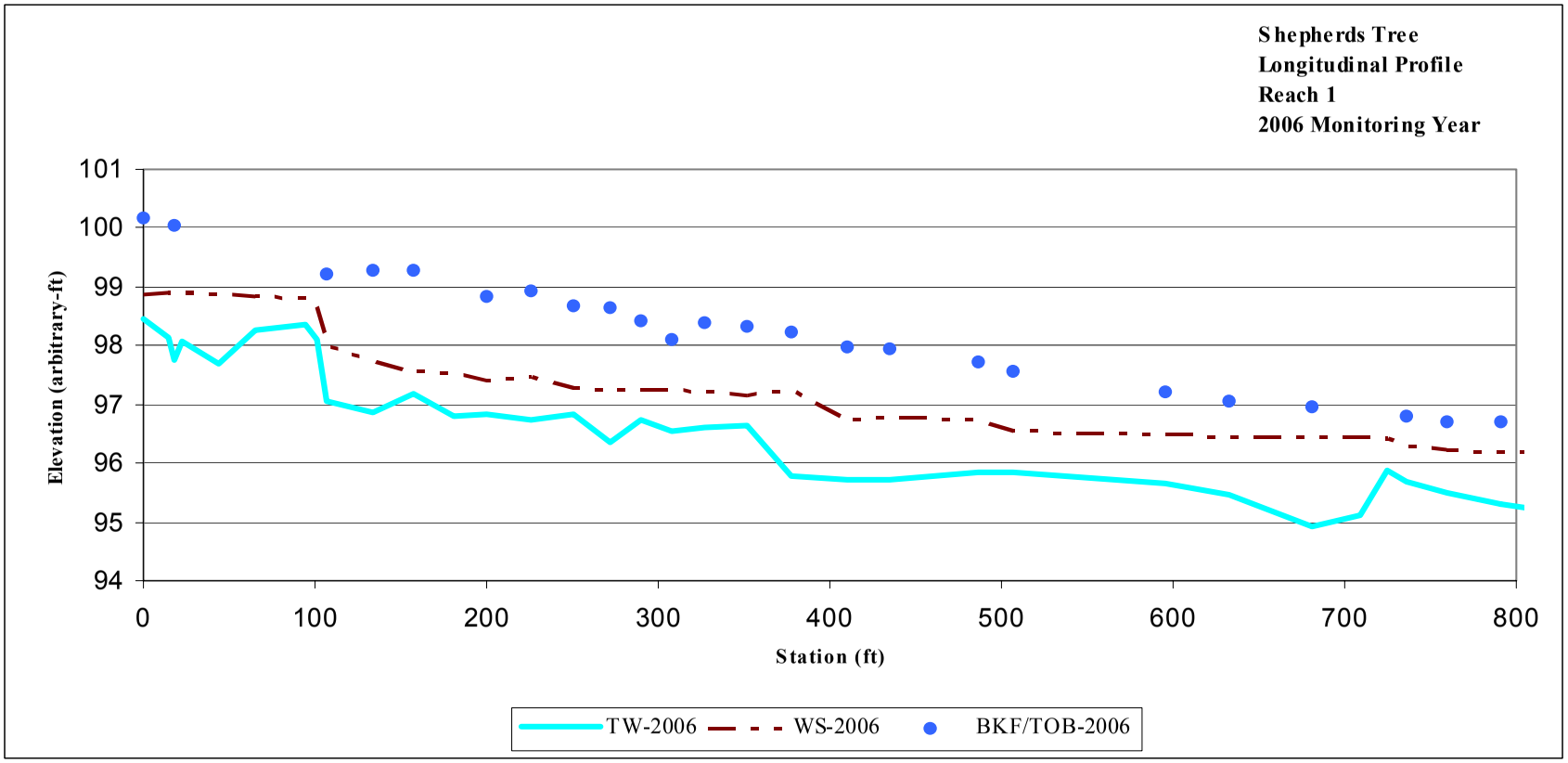
2006									
Station	TW-2006	WS-2006	BKF-2006	Notes	Station	TW-2006	WS-2006	BKF-2006	Notes
0.00	96.57	97.75	99.26	run	213.00	96.20	97.54	99.08	
7.00	96.52	97.72			220.00	95.93	97.54		pool
15.00	96.40	97.70		run	225.00	95.82	97.54		
25.00	96.19	97.67	99.57	pool	231.00	95.72	97.54	98.90	max pool
34.00	96.16	97.64			242.00	95.97	97.54	99.07	
45.00	95.95	97.64	99.46	max pool	248.00	95.95	97.54		glide
57.00	95.99	97.64	99.46		255.00	95.65	97.54		
60.00	96.12	97.64		glide	260.00	95.63	97.53		run
68.00	96.22	97.64			267.00	95.65	97.53		
75.00	96.29	97.64	99.22		272.00	95.70	97.53		
82.00	96.45	97.63	99.17		280.00	95.67	97.53		
85.00	96.40	97.63		crossvane	288.00	95.82	97.53		
88.00	96.15	97.63		head of pool	295.00	96.00	97.52		run
92.00	95.78	97.62		pool	300.00	95.81	97.52		
96.00	95.64	97.62	98.94		305.00	95.87	97.52		
99.00	95.51	97.62	98.94	max pool	311.00	96.07	97.51		head pool
103.00	95.78	97.62		glide	316.00	95.98	97.51		
107.00	96.15	97.62	99.27	pool	322.00	95.58	97.51	98.90	max pool
109.00	96.04	97.62	99.27	max pool	326.00	95.90	97.51		invert
110.00	96.16	97.62			334.00	95.52	97.50		pool
115.00	96.04	97.62	99.23	glide	340.00	97.46	97.49		beaver dam
117.00	96.22	97.60		run	352.00	95.88	96.78	98.80	run
120.00	96.25	97.59			361.00	95.78	96.76		
133.00	96.38	97.59		pool	367.00	95.64	96.76		
138.00	96.20	97.59			374.00	95.70	96.76		
143.00	95.97	97.57	99.18		380.00	95.70	96.75		
150.00	96.03	97.57			389.00	95.69	96.74		
157.00	96.03	97.57			400.00	95.34	96.74		
160.00	96.03	97.57			410.00	95.82	96.74		
165.00	95.90	97.57	99.10		415.00	96.60	96.73	98.78	invert
172.00	95.68	97.57	99.10	max pool	420.00	95.28	96.72	98.78	max scour pool
177.00	95.88	97.57			425.00	95.58	96.68		
183.00	95.82	97.57			435.00	96.09	96.65	98.75	
187.00	95.87	97.56		glide	450.00	96.16	96.64		head pool
190.00	96.01	97.56	99.01	pool	456.00	95.53	96.63		
195.00	95.75	97.56	99.01	max pool	462.00	95.48	96.60	98.51	max pool
200.00	95.80	97.56			470.00	95.03	96.60		
205.00	95.96	97.55		glide	475.00	95.45	96.60		glide
209.00	96.21	97.55		run	477.50	95.72	96.57	98.36	run
					496.50	96.23	96.55		rock xsing

Reach 2

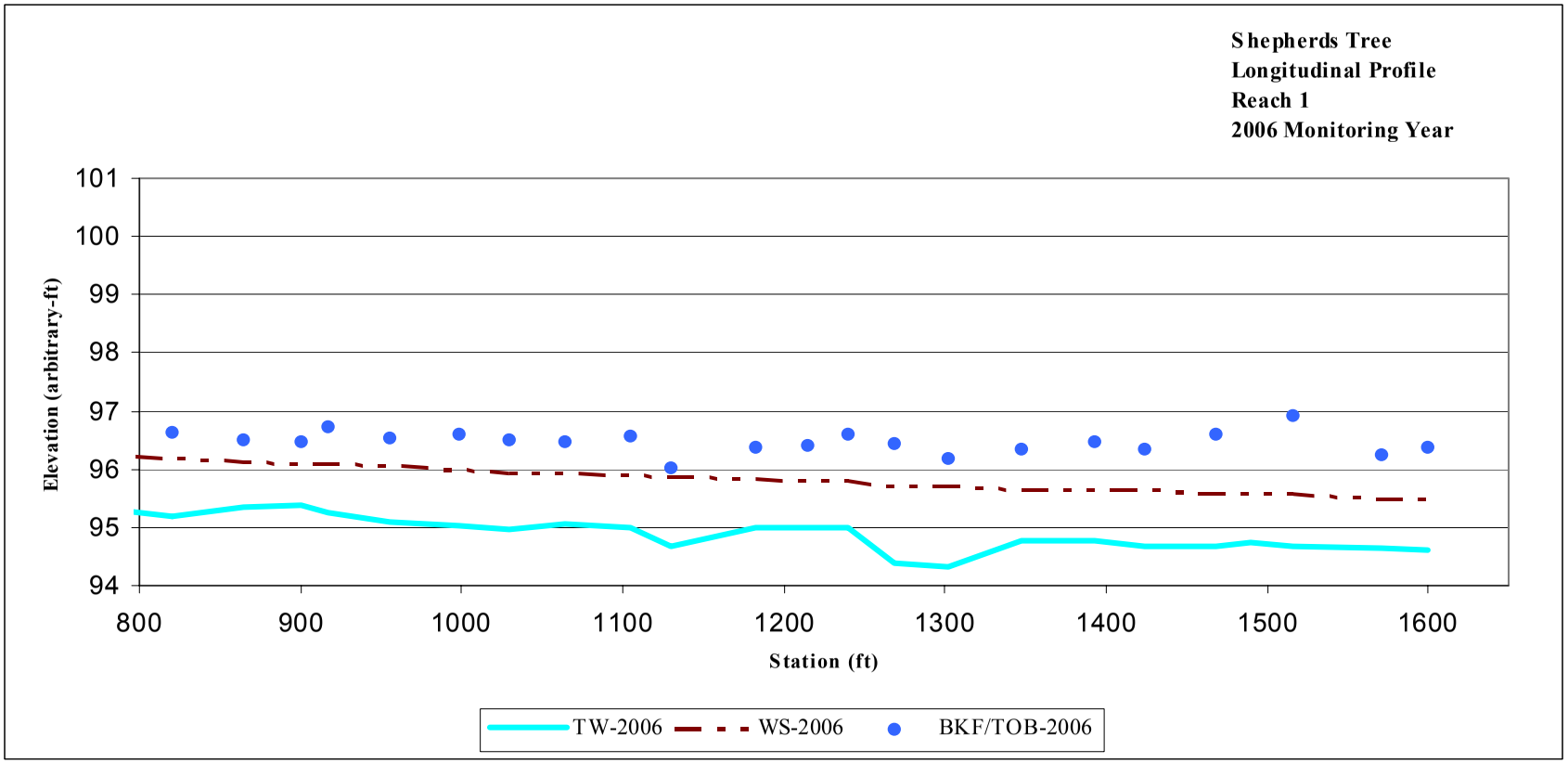
2006									
Station	TW-2006	WS-2006	BKF-2006	Notes	Station	TW-2006	WS-2006	BKF-2006	Notes
515.00	96.12	96.48			923.00	93.96	94.66		run
527.00	94.57	95.29		run	933.00	93.96	94.66	96.60	
542.00	94.19	95.29	98.05		942.00	93.80	94.66		
545.00	94.25	95.25			950.00	93.85	94.66		
555.00	94.60	95.25		run-veg on bottom	961.00	93.77	94.65		
567.00	94.80	95.22	98.03		968.00	93.53	94.65		
595.00	94.46	94.90		run/pool	975.00	93.79	94.64	96.56	
600.00	94.46	94.90			984.00	93.39	94.64		
607.00	94.46	94.83		glide	990.00	93.82	94.63		run/pool
614.00	94.27	94.83		run	1009.00	93.77	94.62		
636.00	94.31	94.83			1037.00	93.69	94.62	96.60	max pool
653.00	94.27	94.81			1052.00	93.76	94.61		glide
657.00	94.24	94.81			1055.00	93.92	94.61		run
661.00	94.25	94.79			1070.00	93.87	94.61		
671.00	94.07	94.79	97.84		1081.00	93.59	94.61		pool
675.00	94.26	94.79	97.96	water gauge-eep	1092.00	93.45	94.61	96.72	max pool
685.00	94.81			x-vane invert	1103.00	93.86	94.60		glide
701.00	93.61	94.76	97.58	max pool	1108.00	93.76	94.60		run
709.00	93.80	94.76		glide	1122.00	93.75	94.59		
716.00	94.00	94.76		run	1140.00	93.70	94.58	96.63	pool
731.00	94.10	94.75		pool	1150.00	93.57	94.58		
742.00	93.95	94.75	97.32	max pool	1167.00	93.22	94.58	96.57	pool-max
752.00	93.86	94.75		glide	1176.00	93.59	94.58		glide
756.00	94.21	94.75		run	1182.00	93.85	94.57		run
765.00	94.37	94.75			1196.00	93.86	94.57		
767.00	94.17	94.75		pool-?	1200.00	93.78	94.56	96.50	pool
776.00	93.98	94.75	97.11		1210.00	93.57	94.56	96.44	pool-max
784.00	93.98	94.75		run	1219.00	93.64	94.56		glide
800.00	93.95	94.75			1239.00	93.64	94.55		run
811.00	93.75	94.75	97.00	pool-max	1256.00	93.76	94.54		pool
829.00	94.03	94.74		glide	1269.00	93.42	94.54	96.50	max-pool
831.00	93.96	94.74	96.78	run	1288.00	93.11	94.54		glide
851.00	93.99	94.74			1295.00	93.29	94.53		run
857.00	93.81	94.74		pool	1300.00	93.10	94.53		
863.00	93.58	94.73	96.67	max pool	1305.00	93.16	94.53		
871.00	93.86	94.73			1315.00	93.36	94.52		head pool
884.00	93.73	94.73	96.52	glide	1316.00	93.27	94.52		
888.00	93.96	94.72		run	1322.00	92.87	94.52	96.47	max pool
900.00	93.76	94.70			1326.00	93.19	94.50		invert
917.00	93.73	94.67			1335.00	92.81	94.46	96.45	max pool

Reach 2

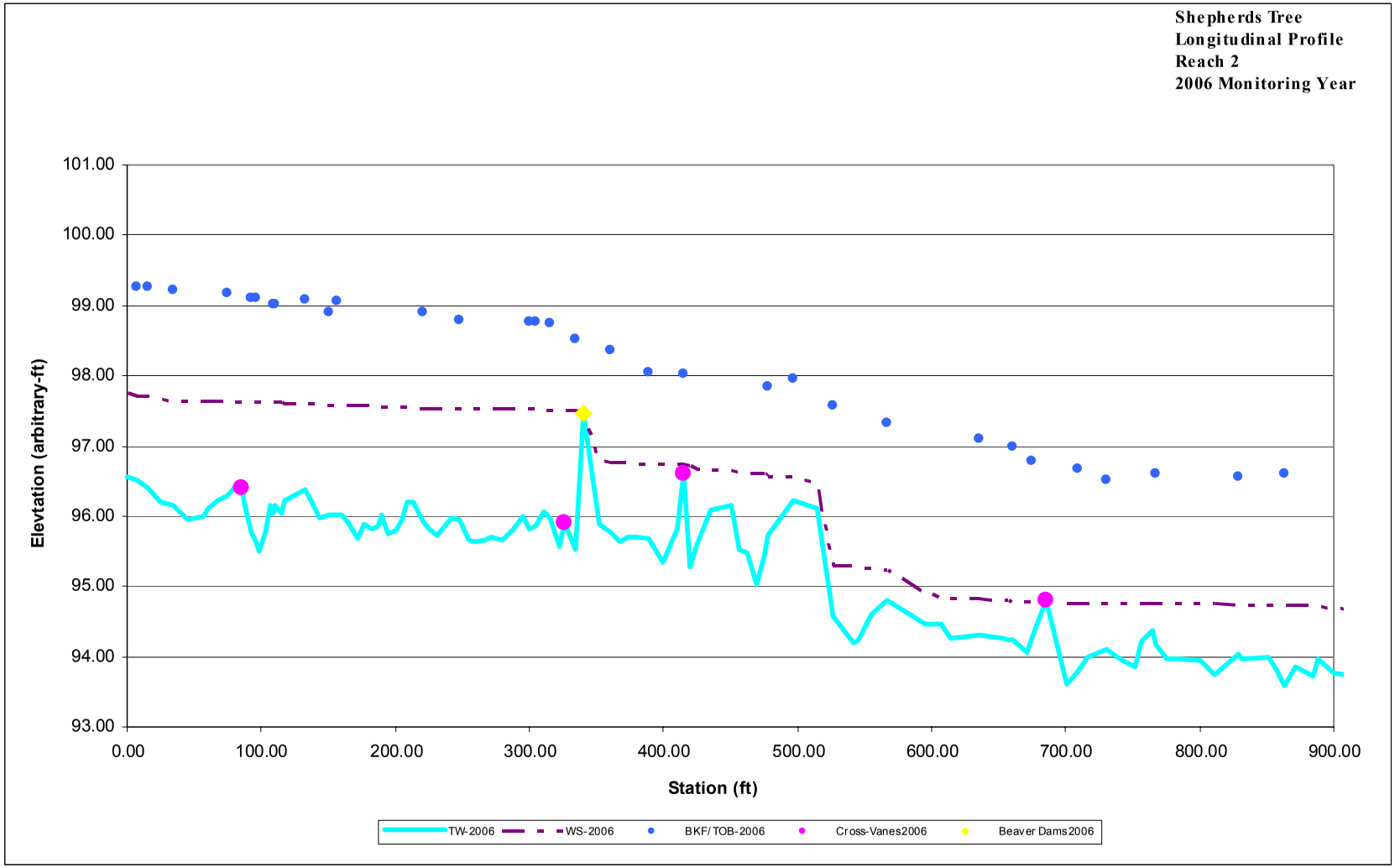
2006				
Station	TW-2006	WS-2006	BKF-2006	Notes
1340.00	94.15	94.46		beaver dam
1352.00	93.17	94.12	96.45	run
1361.00	93.07	94.10		
1367.00	92.93	94.10		
1374.00	92.99	94.09		
1380.00	92.99	94.07		glide
1389.00	92.98	94.07		
1400.00	92.63	94.07		
1410.00	93.11	94.07		
1415.00	93.89	94.07		invert
1429.00	92.57	94.06	96.07	max scour pool
1425.00	92.87	94.05		
1435.00	93.38	94.02		
1450.00	93.45	94.01		head pool
1456.00	92.82	94.00		
1462.00	92.77	93.97		
1470.00	92.32	93.97	95.74	max pool
1475.00	92.74	93.97		glide
1477.50	93.01	93.96	95.72	run
1492.00	93.52	93.96		rock xsing
1515.00	93.41	93.96		
1537.00	93.50	93.95		run
1542.00	93.12	93.95	95.78	
1545.00	93.18	93.95		
1555.00	93.53	93.94		run-veg on bottom
1567.00	93.73	93.93	95.65	
1595.00	93.39	93.90		
1600.00	93.39	93.90		
1607.00	93.39	93.88		
1614.00	93.20	93.76		run
1636.00	93.24	93.76		
1653.00	93.20	93.74		pool
1657.00	93.17	93.74	95.55	max pool
1661.00	93.16	93.73		glide
1671.00	93.00	93.73	95.59	
1675.00	93.19	93.73	95.46	water gauge-eep
1685.00	93.66	93.70		x-vane invert
1701.00	92.54	93.69	95.17	max pool
1708.00	92.73	93.69		glide
1718.00	92.93	93.68		run



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B6. Longitudinal Plots and Raw Data Tables	Jordan Jones & Goulding



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B6. Longitudinal Plots and Raw Data Tables	Jordan Jones & Goulding



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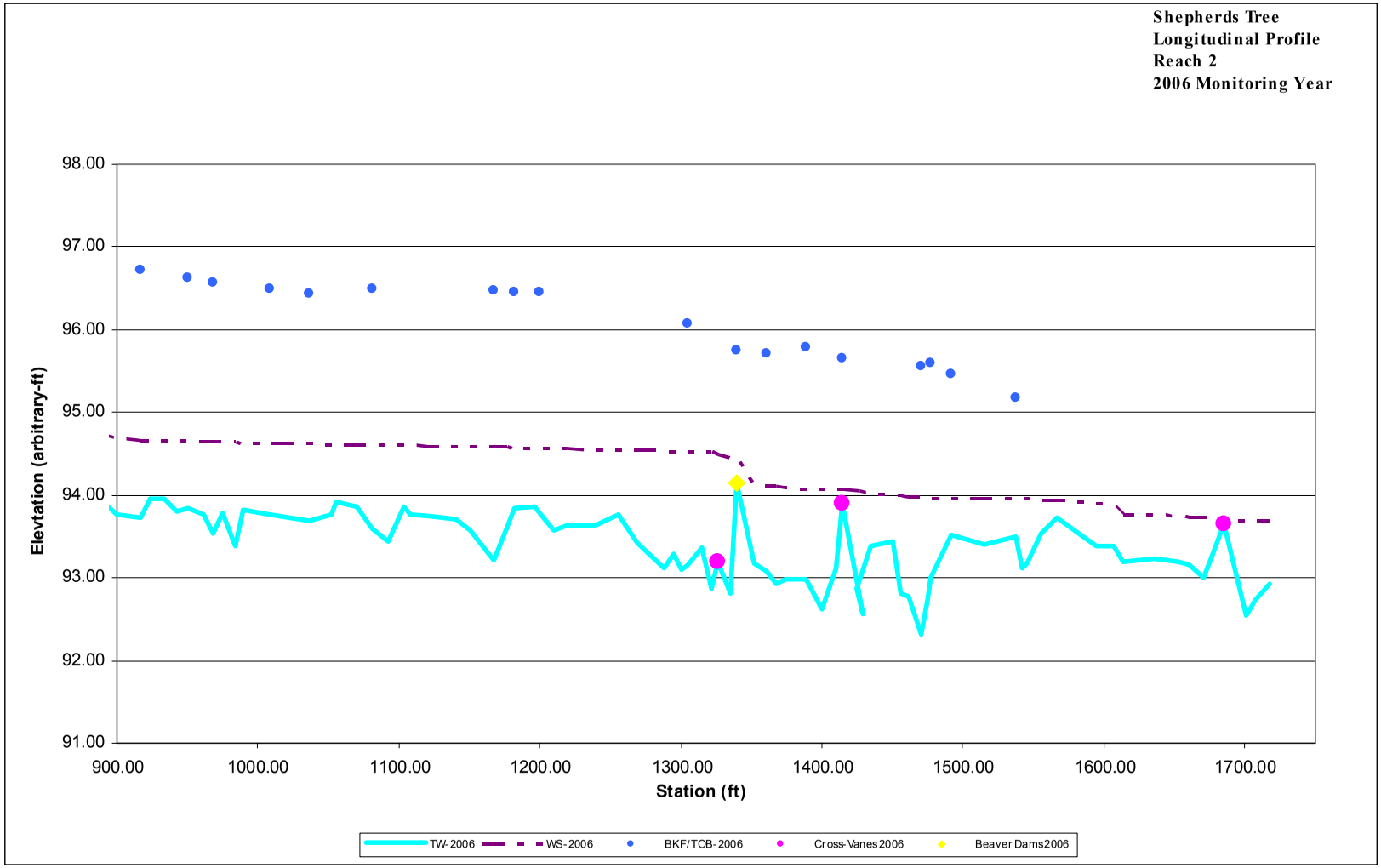
	Appendix B6. Longitudinal Plots and Raw Data Tables	Jordan Jones & Goulding Incorporated



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix B6. Longitudinal Plots and Raw Data Tables	Jordan Jones & Goulding Incorporated

Project Name: Shepherds Tree					
Pool Spacing					
Reach 1					
There were no definable features noted as pools in the December 2006 survey					

Project Name: Shepherds Tree					
Pool Length					
Reach 1					
There were no definable features noted as pools in the December 2006 survey					

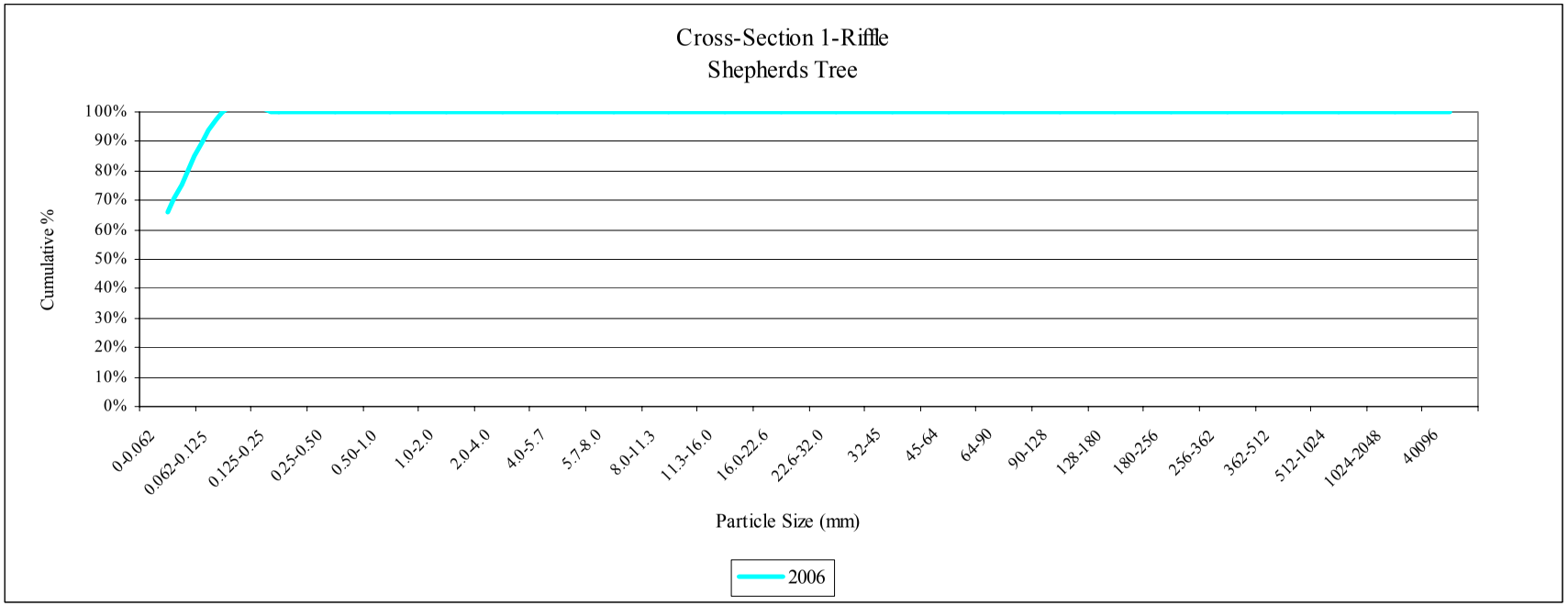
Project Name: Shepherds Tree					
Riffle Slope					
Reaches 1 & 2					
There were no definable features noted as riffles in the September 2006 or December 2006 survey					

Project Name: Shepherds Tree	
Pool Spacing	
Reach 2	
Station (ft)	Spacing (ft)
45.00	
99.00	54.00
109.00	10.00
172.00	63.00
195.00	23.00
231.00	36.00
322.00	91.00
420.00	98.00
462.00	42.00
701.00	239.00
742.00	41.00
811.00	69.00
863.00	52.00
1037.00	174.00
1092.00	55.00
1167.00	75.00
1210.00	43.00
1269.00	59.00
1322.00	53.00
1335.00	13.00
1429.00	94.00
1470.00	41.00
1657.00	187.00
1701.00	44.00

Project Name: Shepherds Tree			
Pool Length			
Station (ft)	Length (ft)	Station (ft)	Length (ft)
25.00		857.00	
60.00	35.00	888.00	31.00
85.00		990.00	
103.00	18.00	1055.00	65.00
107.00		1081.00	
117.00	10.00	1108.00	27.00
133.00		1140.00	
187.00	54.00	1182.00	42.00
190.00		1200.00	
209.00	19.00	1239.00	39.00
220.00		1256.00	
248.00	28.00	1295.00	39.00
311.00		1315.00	
326.00	15.00	1326.00	11.00
340.00		1340.00	
415.00	75.00	1415.00	75.00
450.00		1450.00	
477.50	27.50	1475.00	25.00
685.00		1653.00	
716.00	31.00	1661.00	8.00
731.00		1685.00	
756.00	25.00	1718.00	33.00
767.00			
784.00	17.00		

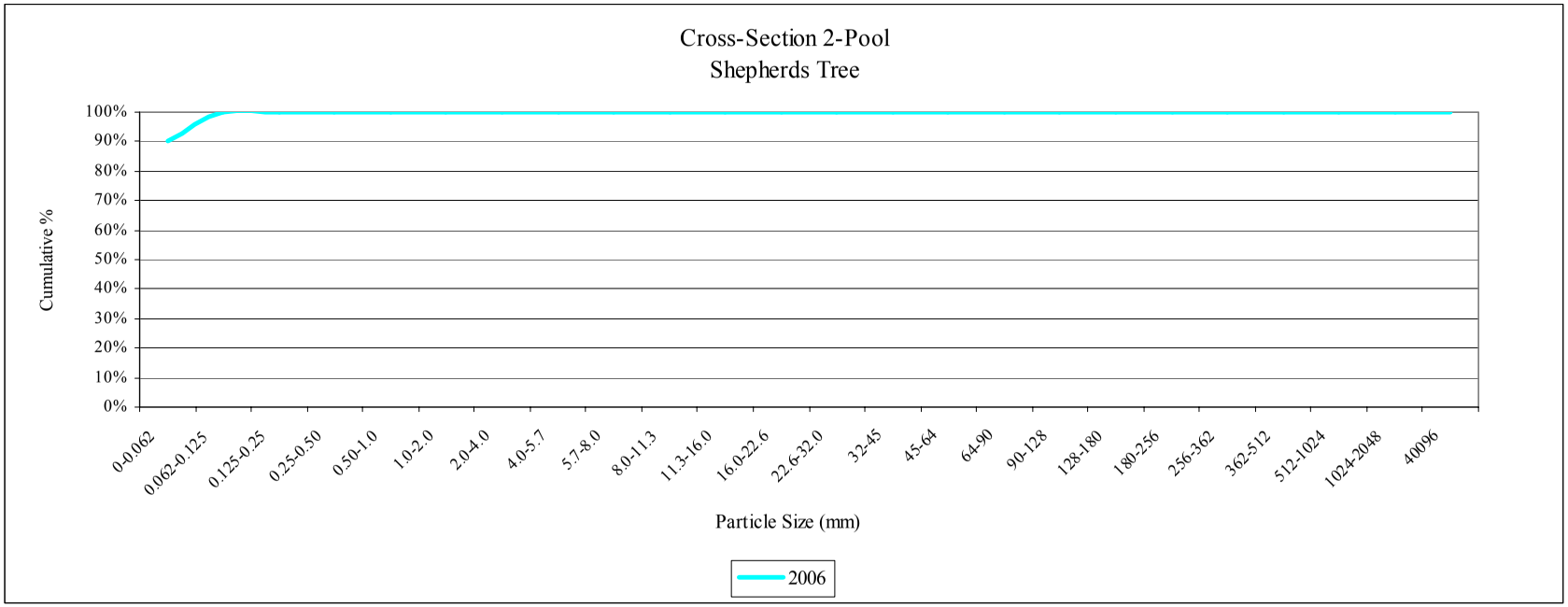
Project Name: Shepherds Tree				
Pattern Measurements				
	Meander Wavelength (Lm)	Radius of Curvature (Rc)	Channel Beltwidth (Wblt)	MWR
	130	19	50	10.20
	110	50	50	8.63
	120	47	60	9.42
	130	30	50	10.20
	140	30	40	10.99
	90	19	50	7.06
	130	33	40	10.20
	110	31	40	8.63
	130	35	50	10.20
	120	30	40	9.42
	110	35	40	8.63
		33	40	
		33	45	
		25		
		27		
		28		
		25		
		29		
		31		
		32		
		21		
		20		
		19		
		19		
		19		
Min	**90**	**19**	**40**	**7**
Max	**140**	**50**	**60**	**11**
Median	**120**	**30**	**45**	**9**

Project Name: Shepherds Tree					
Cross-Section: 1					
Feature: Riffle					
Cross-Section # 1			**2006**		
Description	**Material**	**Size (mm)**	**Total #**	**Item %**	**Cum %**
Silt/Clay	silt/clay	0-0.062	66	66%	66%
Sand	very fine sand	0.062-0.125	34	34%	100%
	fine sand	0.125-0.25	0	0%	100%
	medium sand	0.25-0.50	0	0%	100%
	coarse sand	0.50-1.0	0	0%	100%
	very coarse sand	1.0-2.0	0	0%	100%
Gravel	very fine gravel	2.0-4.0	0	0%	100%
	fine gravel	4.0-5.7	0	0%	100%
	fine gravel	5.7-8.0	0	0%	100%
	medium gravel	8.0-11.3	0	0%	100%
	medium gravel	11.3-16.0	0	0%	100%
	course gravel	16.0-22.6	0	0%	100%
	course gravel	22.6-32.0	0	0%	100%
	very coarse gravel	32-45	0	0%	100%
	very coarse gravel	45-64	0	0%	100%
Cobble	small cobble	64-90	0	0%	100%
	medium cobble	90-128	0	0%	100%
	large cobble	128-180	0	0%	100%
	very large cobble	180-256	0	0%	100%
Boulder	small boulder	256-362	0	0%	100%
	small boulder	362-512	0	0%	100%
	medium boulder	512-1024	0	0%	100%
	large boulder	1024-2048	0	0%	100%
Bedrock	bedrock	40096	0	0%	100%
TOTAL/%of whole count			100	100%	100%



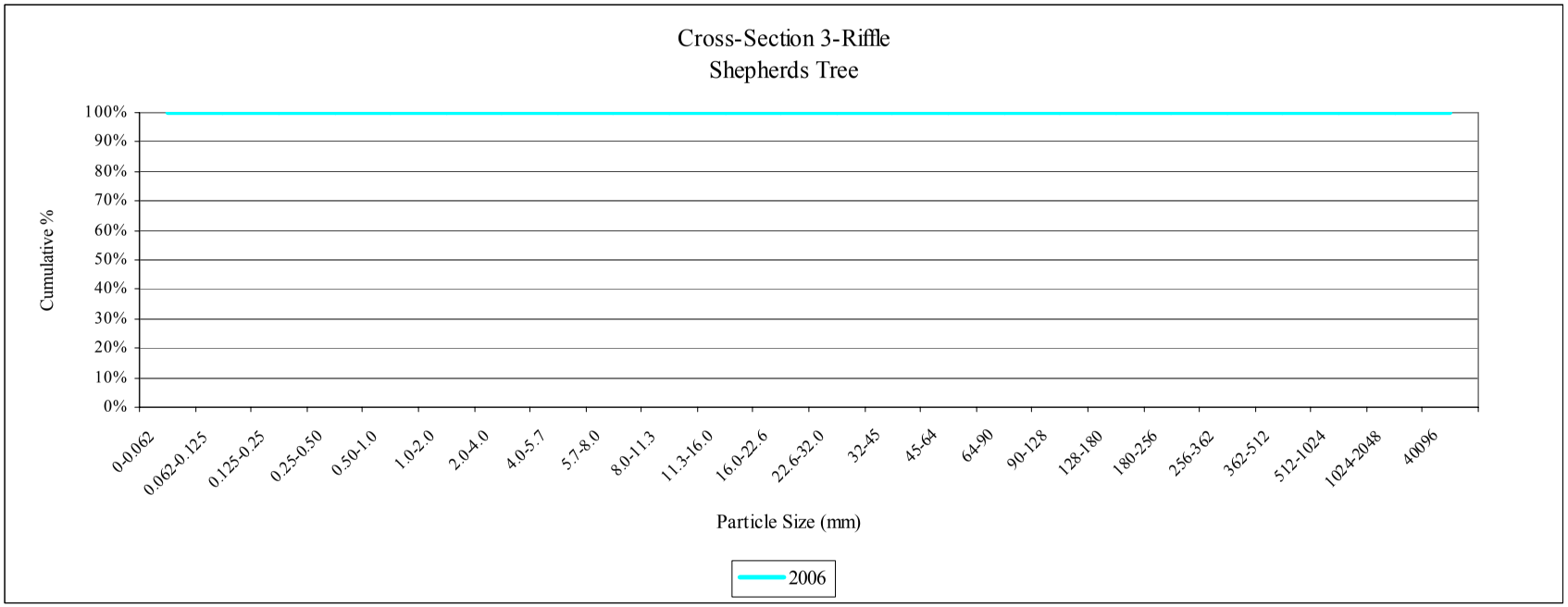
	d16	d35	d50	d84	d95	d100
2006	0.02	0.03	0.05	0.10	0.12	0.12

Project Name: Shepherds Tree					
Cross-Section: 2					
Feature: Pool					
Cross-Section # 2			**2006**		
Description	**Material**	**Size (mm)**	**Total #**	**Item %**	**Cum %**
Silt/Clay	silt/clay	0-0.062	90	90%	90%
Sand	very fine sand	0.062-0.125	10	10%	100%
	fine sand	0.125-0.25	0	0%	100%
	medium sand	0.25-0.50	0	0%	100%
	coarse sand	0.50-1.0	0	0%	100%
	very coarse sand	1.0-2.0	0	0%	100%
Gravel	very fine gravel	2.0-4.0	0	0%	100%
	fine gravel	4.0-5.7	0	0%	100%
	fine gravel	5.7-8.0	0	0%	100%
	medium gravel	8.0-11.3	0	0%	100%
	medium gravel	11.3-16.0	0	0%	100%
	course gravel	16.0-22.6	0	0%	100%
	course gravel	22.6-32.0	0	0%	100%
	very coarse gravel	32-45	0	0%	100%
	very coarse gravel	45-64	0	0%	100%
Cobble	small cobble	64-90	0	0%	100%
	medium cobble	90-128	0	0%	100%
	large cobble	128-180	0	0%	100%
	very large cobble	180-256	0	0%	100%
Boulder	small boulder	256-362	0	0%	100%
	small boulder	362-512	0	0%	100%
	medium boulder	512-1024	0	0%	100%
	large boulder	1024-2048	0	0%	100%
Bedrock	bedrock	40096	0	0%	100%
TOTAL/%of whole count			100	100%	100%



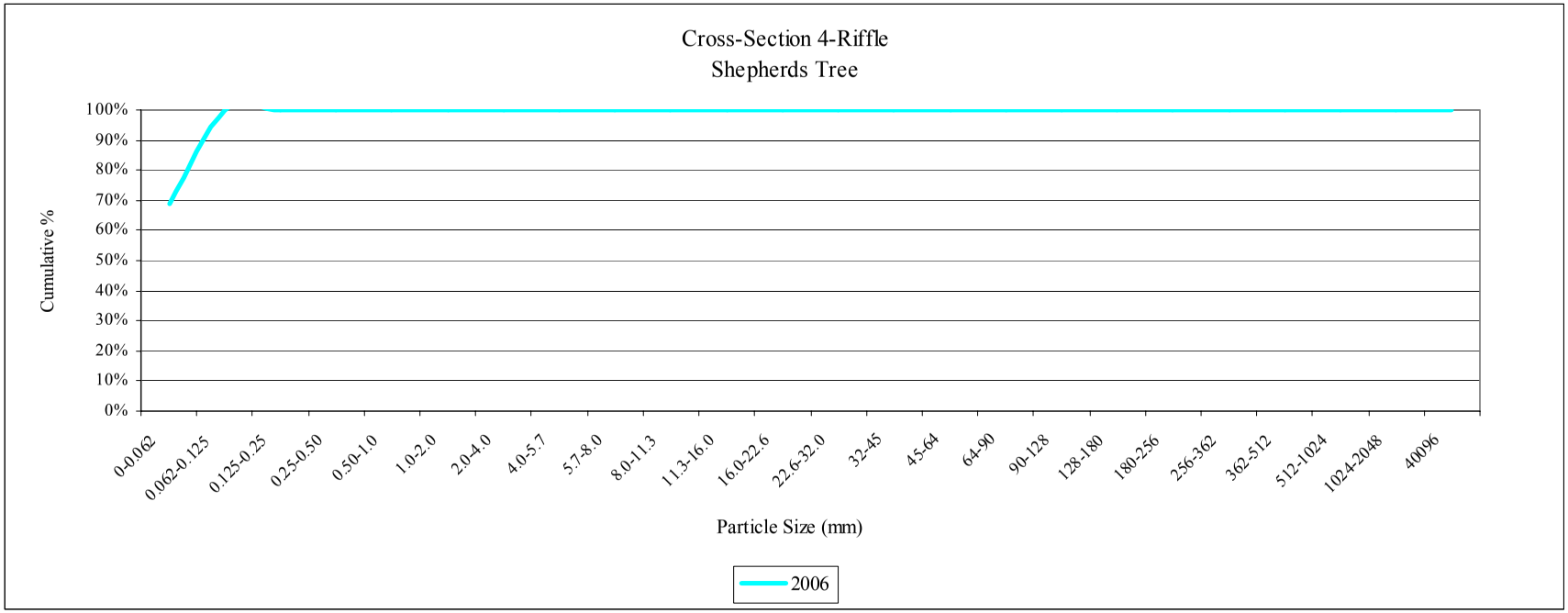
	d16	d35	d50	d84	d95	d100
2006	0.01	0.02	0.03	0.06	0.09	0.12

Project Name: Shepherds Tree					
Cross-Section: 3					
Feature: Riffle					
Cross-Section # 3			**2006**		
Description	**Material**	**Size (mm)**	**Total #**	**Item %**	**Cum %**
Silt/Clay	silt/clay	0-0.062	100	100%	100%
Sand	very fine sand	0.062-0.125	0	0%	100%
	fine sand	0.125-0.25	0	0%	100%
	medium sand	0.25-0.50	0	0%	100%
	coarse sand	0.50-1.0	0	0%	100%
	very coarse sand	1.0-2.0	0	0%	100%
Gravel	very fine gravel	2.0-4.0	0	0%	100%
	fine gravel	4.0-5.7	0	0%	100%
	fine gravel	5.7-8.0	0	0%	100%
	medium gravel	8.0-11.3	0	0%	100%
	medium gravel	11.3-16.0	0	0%	100%
	course gravel	16.0-22.6	0	0%	100%
	course gravel	22.6-32.0	0	0%	100%
	very coarse gravel	32-45	0	0%	100%
	very coarse gravel	45-64	0	0%	100%
Cobble	small cobble	64-90	0	0%	100%
	medium cobble	90-128	0	0%	100%
	large cobble	128-180	0	0%	100%
	very large cobble	180-256	0	0%	100%
Boulder	small boulder	256-362	0	0%	100%
	small boulder	362-512	0	0%	100%
	medium boulder	512-1024	0	0%	100%
	large boulder	1024-2048	0	0%	100%
Bedrock	bedrock	40096	0	0%	100%
TOTAL/%of whole count			100	100%	100%



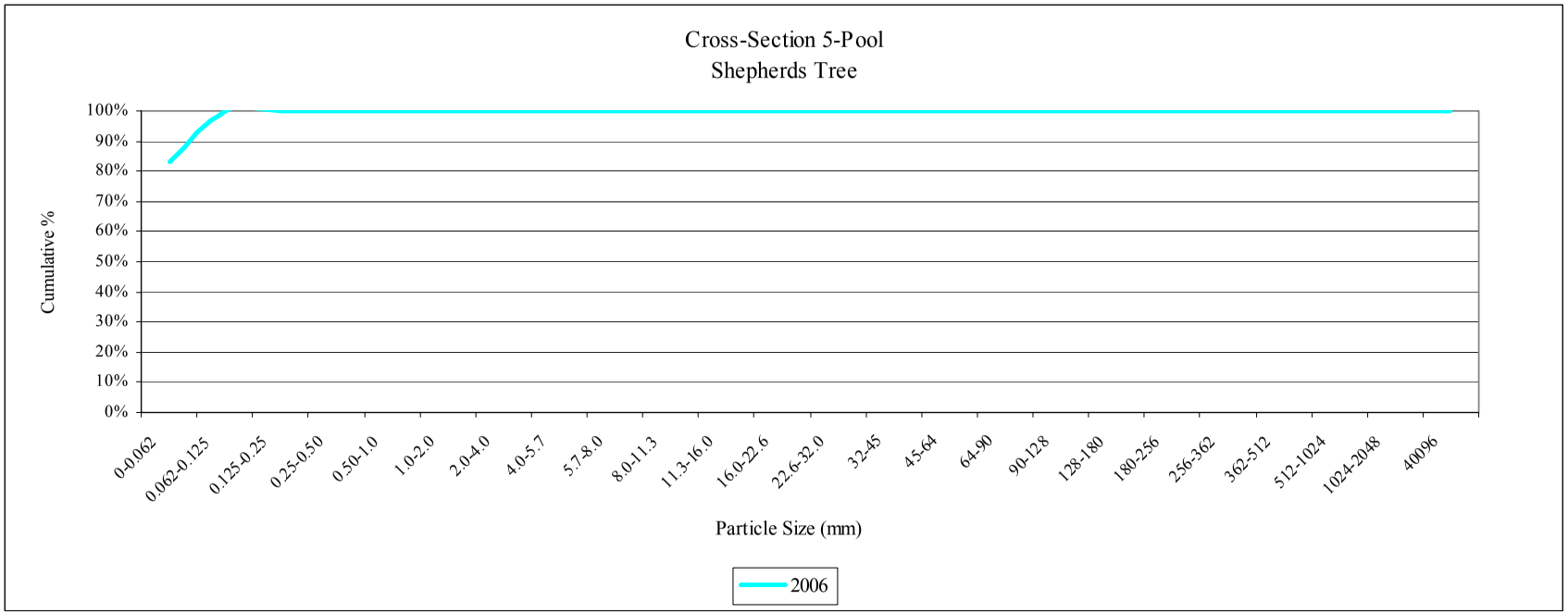
	d16	d35	d50	d84	d95	d100
2006	0.01	0.02	0.03	0.05	0.06	0.06

Project Name: Shepherds Tree					
Cross-Section: 4					
Feature: Riffle					
Cross-Section # 4			**2006**		
Description	**Material**	**Size (mm)**	**Total #**	**Item %**	**Cum %**
Silt/Clay	silt/clay	0-0.062	69	69%	69%
Sand	very fine sand	0.062-0.125	31	31%	100%
	fine sand	0.125-0.25	0	0%	100%
	medium sand	0.25-0.50	0	0%	100%
	coarse sand	0.50-1.0	0	0%	100%
	very coarse sand	1.0-2.0	0	0%	100%
Gravel	very fine gravel	2.0-4.0	0	0%	100%
	fine gravel	4.0-5.7	0	0%	100%
	fine gravel	5.7-8.0	0	0%	100%
	medium gravel	8.0-11.3	0	0%	100%
	medium gravel	11.3-16.0	0	0%	100%
	course gravel	16.0-22.6	0	0%	100%
	course gravel	22.6-32.0	0	0%	100%
	very coarse gravel	32-45	0	0%	100%
	very coarse gravel	45-64	0	0%	100%
Cobble	small cobble	64-90	0	0%	100%
	medium cobble	90-128	0	0%	100%
	large cobble	128-180	0	0%	100%
	very large cobble	180-256	0	0%	100%
Boulder	small boulder	256-362	0	0%	100%
	small boulder	362-512	0	0%	100%
	medium boulder	512-1024	0	0%	100%
	large boulder	1024-2048	0	0%	100%
Bedrock	bedrock	40096	0	0%	100%
TOTAL/%of whole count			100	100%	100%



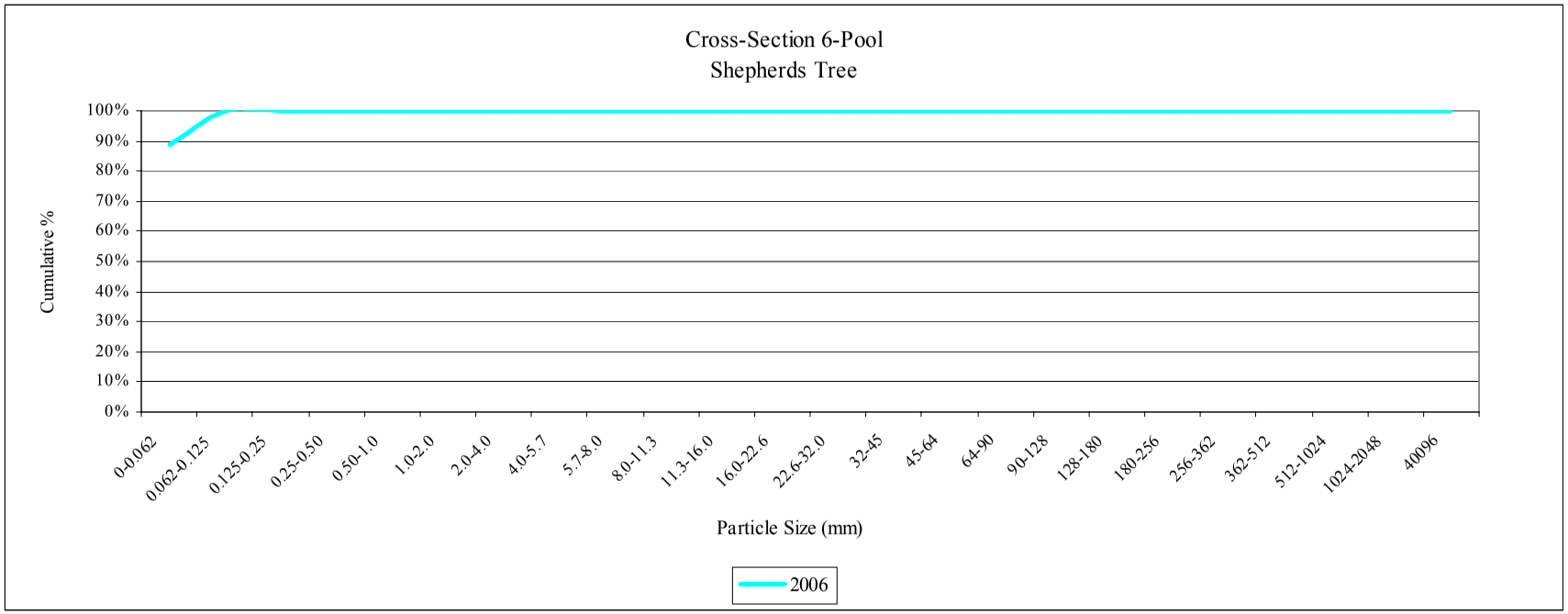
	d16	d35	d50	d84	d95	d100
2006	0.02	0.03	0.05	0.09	0.11	0.12

Project Name: Shepherds Tree					
Cross-Section: 5					
Feature: Pool					
Cross-Section # 5			**2006**		
Description	**Material**	**Size (mm)**	**Total #**	**Item %**	**Cum %**
Silt/Clay	silt/clay	0-0.062	83	83%	83%
Sand	very fine sand	0.062-0.125	17	17%	100%
	fine sand	0.125-0.25	0	0%	100%
	medium sand	0.25-0.50	0	0%	100%
	coarse sand	0.50-1.0	0	0%	100%
	very coarse sand	1.0-2.0	0	0%	100%
Gravel	very fine gravel	2.0-4.0	0	0%	100%
	fine gravel	4.0-5.7	0	0%	100%
	fine gravel	5.7-8.0	0	0%	100%
	medium gravel	8.0-11.3	0	0%	100%
	medium gravel	11.3-16.0	0	0%	100%
	course gravel	16.0-22.6	0	0%	100%
	course gravel	22.6-32.0	0	0%	100%
	very coarse gravel	32-45	0	0%	100%
	very coarse gravel	45-64	0	0%	100%
Cobble	small cobble	64-90	0	0%	100%
	medium cobble	90-128	0	0%	100%
	large cobble	128-180	0	0%	100%
	very large cobble	180-256	0	0%	100%
Boulder	small boulder	256-362	0	0%	100%
	small boulder	362-512	0	0%	100%
	medium boulder	512-1024	0	0%	100%
	large boulder	1024-2048	0	0%	100%
Bedrock	bedrock	40096	0	0%	100%
TOTAL/%of whole count			100	100%	100%



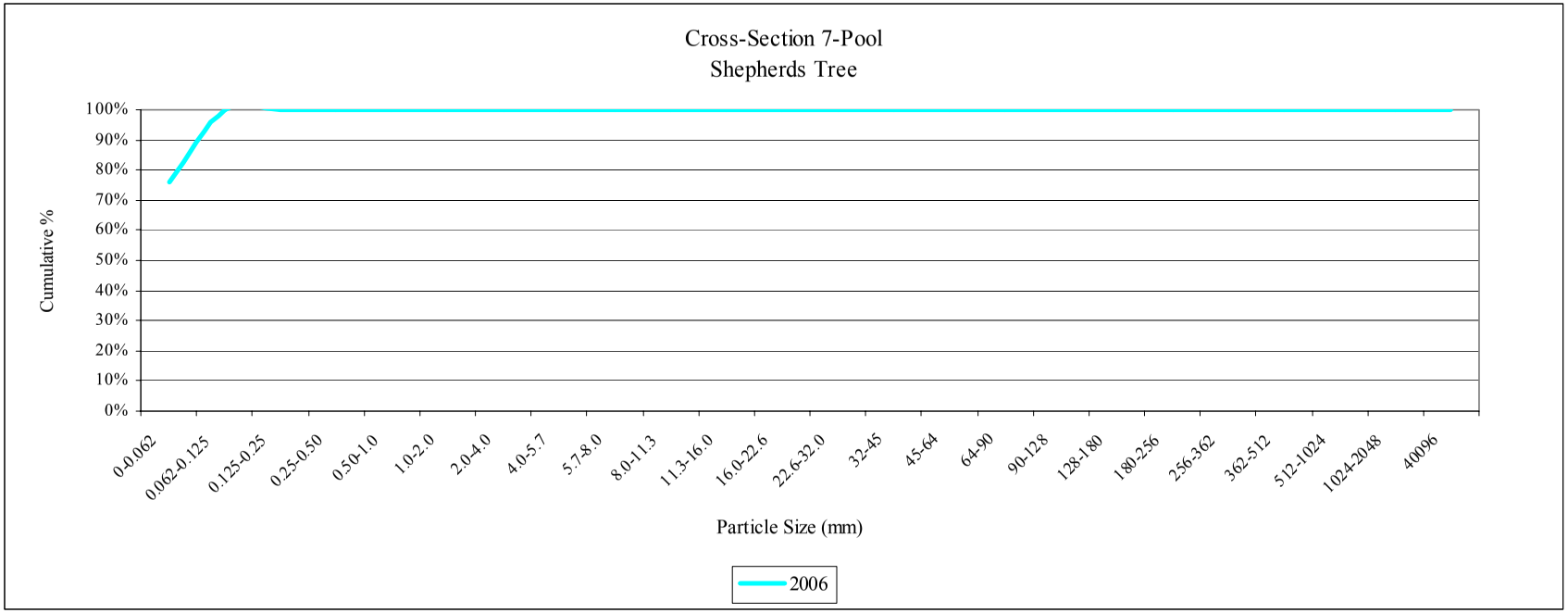
	d16	d35	d50	d84	d95	d100
2006	0.01	0.03	0.04	0.07	0.11	0.12

Project Name: Shepherds Tree					
Cross-Section: 6					
Feature: Pool					
Cross-Section # 6			**2006**		
Description	**Material**	**Size (mm)**	**Total #**	**Item %**	**Cum %**
Silt/Clay	silt/clay	0-0.062	89	89%	89%
Sand	very fine sand	0.062-0.125	11	11%	100%
	fine sand	0.125-0.25	0	0%	100%
	medium sand	0.25-0.50	0	0%	100%
	coarse sand	0.50-1.0	0	0%	100%
	very coarse sand	1.0-2.0	0	0%	100%
G r a v e l	very fine gravel	2.0-4.0	0	0%	100%
	fine gravel	4.0-5.7	0	0%	100%
	fine gravel	5.7-8.0	0	0%	100%
	medium gravel	8.0-11.3	0	0%	100%
	medium gravel	11.3-16.0	0	0%	100%
	course gravel	16.0-22.6	0	0%	100%
	course gravel	22.6-32.0	0	0%	100%
	very coarse gravel	32-45	0	0%	100%
	very coarse gravel	45-64	0	0%	100%
Cobble	small cobble	64-90	0	0%	100%
	medium cobble	90-128	0	0%	100%
	large cobble	128-180	0	0%	100%
	very large cobble	180-256	0	0%	100%
Boulder	small boulder	256-362	0	0%	100%
	small boulder	362-512	0	0%	100%
	medium boulder	512-1024	0	0%	100%
	large boulder	1024-2048	0	0%	100%
Bedrock	bedrock	40096	0	0%	100%
TOTAL/%of whole count			100	100%	100%



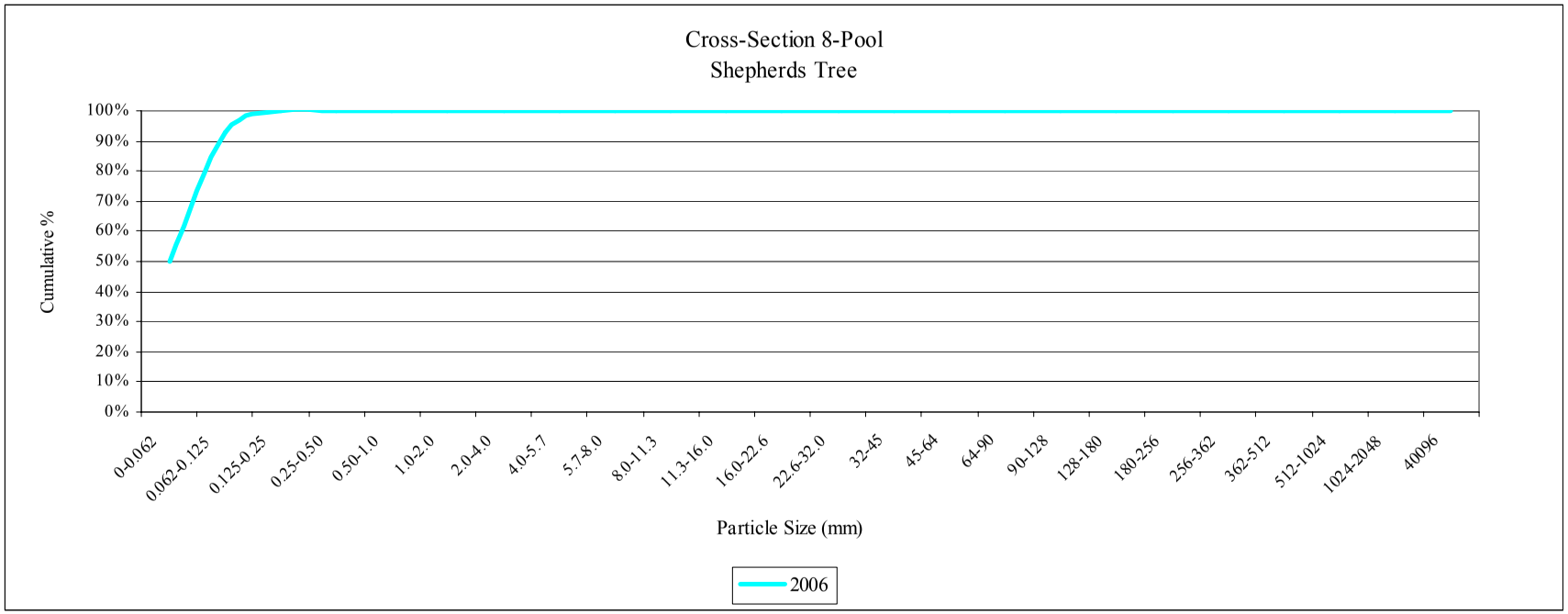
	d16	d35	d50	d84	d95	d100
2006	0.01	0.02	0.04	0.06	0.10	0.12

Project Name: Shepherds Tree					
Cross-Section: 7					
Feature: Pool					
Cross-Section # 7			**2006**		
Description	**Material**	**Size (mm)**	**Total #**	**Item %**	**Cum %**
Silt/Clay	silt/clay	0-0.062	76	76%	76%
Sand	very fine sand	0.062-0.125	24	24%	100%
	fine sand	0.125-0.25	0	0%	100%
	medium sand	0.25-0.50	0	0%	100%
	coarse sand	0.50-1.0	0	0%	100%
	very coarse sand	1.0-2.0	0	0%	100%
G r a v e l	very fine gravel	2.0-4.0	0	0%	100%
	fine gravel	4.0-5.7	0	0%	100%
	fine gravel	5.7-8.0	0	0%	100%
	medium gravel	8.0-11.3	0	0%	100%
	medium gravel	11.3-16.0	0	0%	100%
	course gravel	16.0-22.6	0	0%	100%
	course gravel	22.6-32.0	0	0%	100%
	very coarse gravel	32-45	0	0%	100%
	very coarse gravel	45-64	0	0%	100%
Cobble	small cobble	64-90	0	0%	100%
	medium cobble	90-128	0	0%	100%
	large cobble	128-180	0	0%	100%
	very large cobble	180-256	0	0%	100%
Boulder	small boulder	256-362	0	0%	100%
	small boulder	362-512	0	0%	100%
	medium boulder	512-1024	0	0%	100%
	large boulder	1024-2048	0	0%	100%
Bedrock	bedrock	40096	0	0%	100%
TOTAL/%of whole count			100	100%	100%



	d16	d35	d50	d84	d95	d100
2006	0.01	0.03	0.04	0.08	0.11	0.12

Project Name: Shepherds Tree					
Cross-Section: 8					
Feature: Pool					
Cross-Section # 8			**2006**		
Description	**Material**	**Size (mm)**	**Total #**	**Item %**	**Cum %**
Silt/Clay	silt/clay	0-0.062	50	50%	50%
Sand	very fine sand	0.062-0.125	43	43%	93%
	fine sand	0.125-0.25	7	7%	100%
	medium sand	0.25-0.50	0	0%	100%
	coarse sand	0.50-1.0	0	0%	100%
	very coarse sand	1.0-2.0	0	0%	100%
G r a v e l	very fine gravel	2.0-4.0	0	0%	100%
	fine gravel	4.0-5.7	0	0%	100%
	fine gravel	5.7-8.0	0	0%	100%
	medium gravel	8.0-11.3	0	0%	100%
	medium gravel	11.3-16.0	0	0%	100%
	course gravel	16.0-22.6	0	0%	100%
	course gravel	22.6-32.0	0	0%	100%
	very coarse gravel	32-45	0	0%	100%
	very coarse gravel	45-64	0	0%	100%
Cobble	small cobble	64-90	0	0%	100%
	medium cobble	90-128	0	0%	100%
	large cobble	128-180	0	0%	100%
	very large cobble	180-256	0	0%	100%
Boulder	small boulder	256-362	0	0%	100%
	small boulder	362-512	0	0%	100%
	medium boulder	512-1024	0	0%	100%
	large boulder	1024-2048	0	0%	100%
Bedrock	bedrock	40096	0	0%	100%
TOTAL/%of whole count			100	100%	100%



	d16	d35	d50	d84	d95	d100
2006	0.02	0.04	0.06	0.11	0.16	0.25

Prepared For:

Ecosystem Enhancement Program

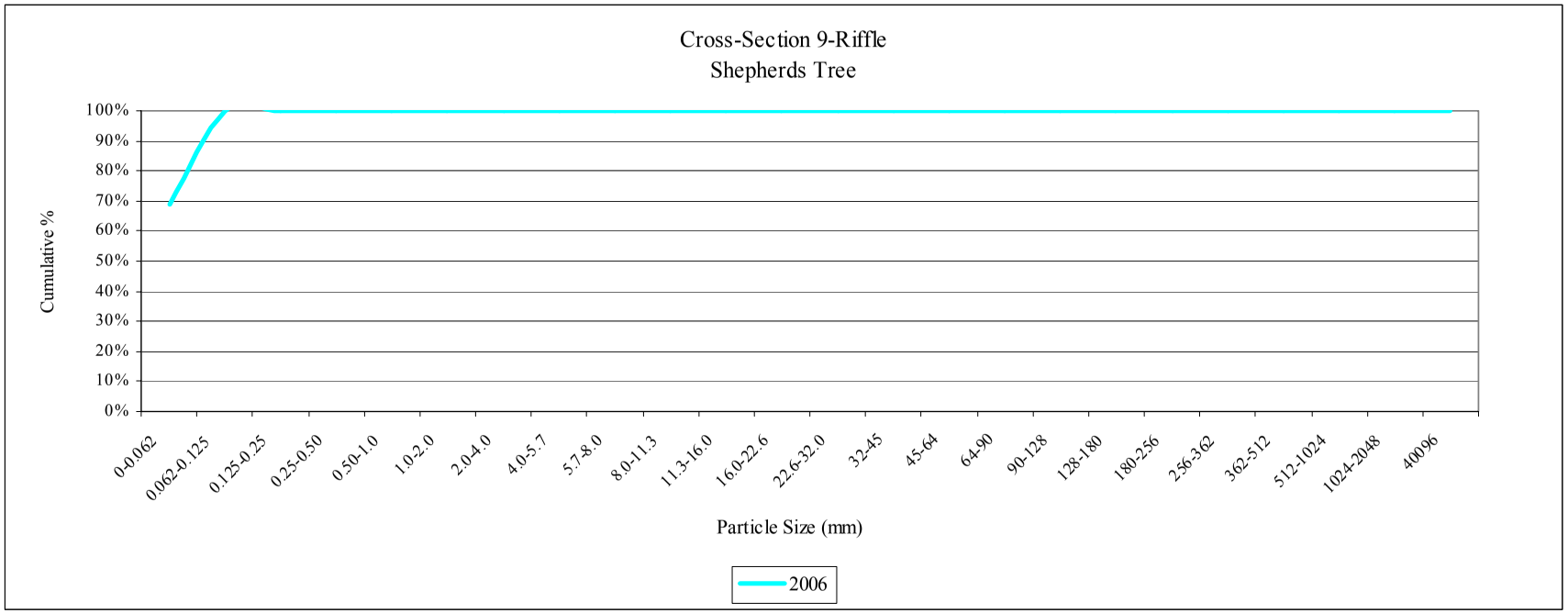
Shepherds Tree Stream and Wetland Restoration
Year 2 of 5

Appendix B7. Pebble Counts and Raw Data Tables

Date: March 2007
Project No.: 333

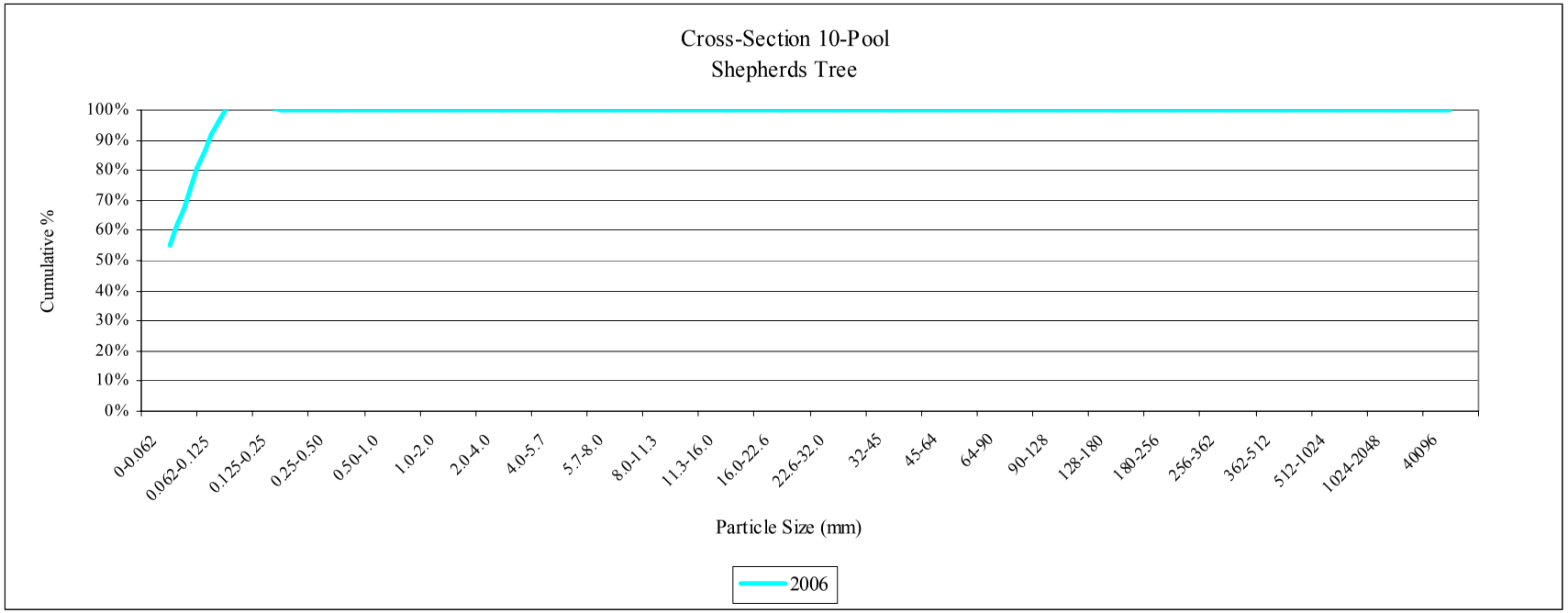
Jordan Jones & Goulding

Project Name: Shepherds Tree					
Cross-Section: 9					
Feature: Riffle					
Cross-Section # 9			**2006**		
Description	**Material**	**Size (mm)**	**Total #**	**Item %**	**Cum %**
Silt/Clay	silt/clay	0-0.062	69	69%	69%
Sand	very fine sand	0.062-0.125	31	31%	100%
	fine sand	0.125-0.25	0	0%	100%
	medium sand	0.25-0.50	0	0%	100%
	coarse sand	0.50-1.0	0	0%	100%
	very coarse sand	1.0-2.0	0	0%	100%
Gravel	very fine gravel	2.0-4.0	0	0%	100%
	fine gravel	4.0-5.7	0	0%	100%
	fine gravel	5.7-8.0	0	0%	100%
	medium gravel	8.0-11.3	0	0%	100%
	medium gravel	11.3-16.0	0	0%	100%
	course gravel	16.0-22.6	0	0%	100%
	course gravel	22.6-32.0	0	0%	100%
	very coarse gravel	32-45	0	0%	100%
	very coarse gravel	45-64	0	0%	100%
Cobble	small cobble	64-90	0	0%	100%
	medium cobble	90-128	0	0%	100%
	large cobble	128-180	0	0%	100%
	very large cobble	180-256	0	0%	100%
Boulder	small boulder	256-362	0	0%	100%
	small boulder	362-512	0	0%	100%
	medium boulder	512-1024	0	0%	100%
	large boulder	1024-2048	0	0%	100%
Bedrock	bedrock	40096	0	0%	100%
TOTAL/%of whole count			100	100%	100%



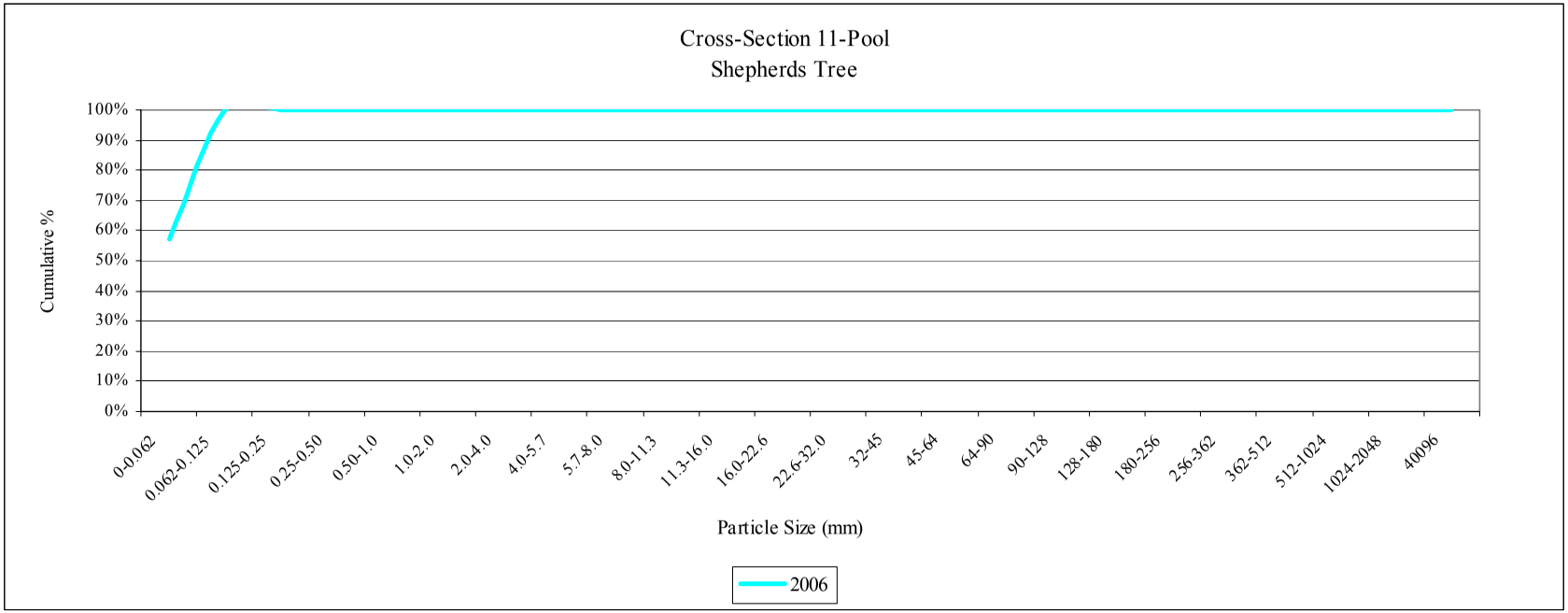
	d16	d35	d50	d84	d95	d100
2006	0.02	0.03	0.05	0.09	0.11	0.12

Project Name: Shepherds Tree					
Cross-Section: 10					
Feature: Pool					
Cross-Section # 10			**2006**		
Description	**Material**	**Size (mm)**	**Total #**	**Item %**	**Cum %**
Silt/Clay	silt/clay	0-0.062	55	55%	55%
Sand	very fine sand	0.062-0.125	45	45%	100%
	fine sand	0.125-0.25	0	0%	100%
	medium sand	0.25-0.50	0	0%	100%
	coarse sand	0.50-1.0	0	0%	100%
	very coarse sand	1.0-2.0	0	0%	100%
Gravel	very fine gravel	2.0-4.0	0	0%	100%
	fine gravel	4.0-5.7	0	0%	100%
	fine gravel	5.7-8.0	0	0%	100%
	medium gravel	8.0-11.3	0	0%	100%
	medium gravel	11.3-16.0	0	0%	100%
	course gravel	16.0-22.6	0	0%	100%
	course gravel	22.6-32.0	0	0%	100%
	very coarse gravel	32-45	0	0%	100%
	very coarse gravel	45-64	0	0%	100%
Cobble	small cobble	64-90	0	0%	100%
	medium cobble	90-128	0	0%	100%
	large cobble	128-180	0	0%	100%
	very large cobble	180-256	0	0%	100%
Boulder	small boulder	256-362	0	0%	100%
	small boulder	362-512	0	0%	100%
	medium boulder	512-1024	0	0%	100%
	large boulder	1024-2048	0	0%	100%
Bedrock	bedrock	40096	0	0%	100%
TOTAL/%of whole count			100	100%	100%



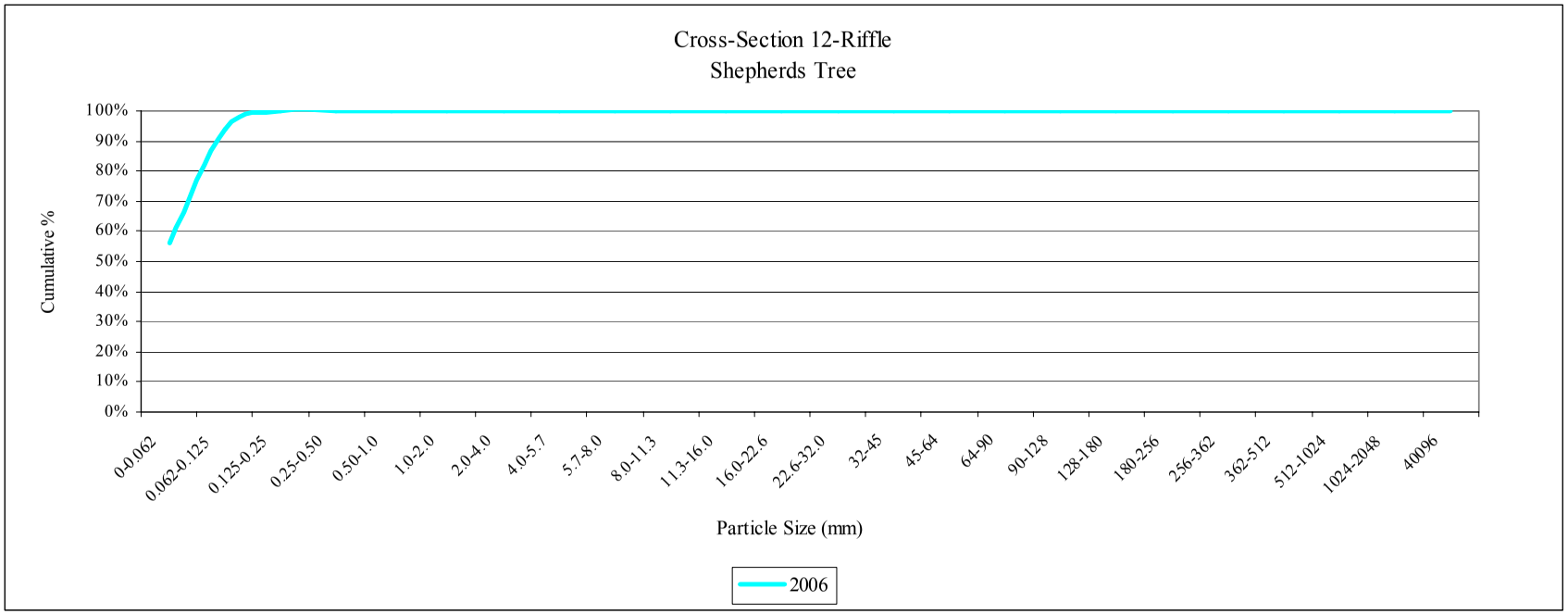
	d16	d35	d50	d84	d95	d100
2006	0.02	0.04	0.06	0.10	0.12	0.12

Project Name: Shepherds Tree					
Cross-Section: 11					
Feature: Pool					
Cross-Section # 11			**2006**		
Description	**Material**	**Size (mm)**	**Total #**	**Item %**	**Cum %**
Silt/Clay	silt/clay	0-0.062	56	57%	57%
Sand	very fine sand	0.062-0.125	42	43%	100%
	fine sand	0.125-0.25	0	0%	100%
	medium sand	0.25-0.50	0	0%	100%
	coarse sand	0.50-1.0	0	0%	100%
	very coarse sand	1.0-2.0	0	0%	100%
G r a v e l	very fine gravel	2.0-4.0	0	0%	100%
	fine gravel	4.0-5.7	0	0%	100%
	fine gravel	5.7-8.0	0	0%	100%
	medium gravel	8.0-11.3	0	0%	100%
	medium gravel	11.3-16.0	0	0%	100%
	course gravel	16.0-22.6	0	0%	100%
	course gravel	22.6-32.0	0	0%	100%
	very coarse gravel	32-45	0	0%	100%
	very coarse gravel	45-64	0	0%	100%
Cobble	small cobble	64-90	0	0%	100%
	medium cobble	90-128	0	0%	100%
	large cobble	128-180	0	0%	100%
	very large cobble	180-256	0	0%	100%
Boulder	small boulder	256-362	0	0%	100%
	small boulder	362-512	0	0%	100%
	medium boulder	512-1024	0	0%	100%
	large boulder	1024-2048	0	0%	100%
Bedrock	bedrock	40096	0	0%	100%
TOTAL/%of whole count			98	100%	100%



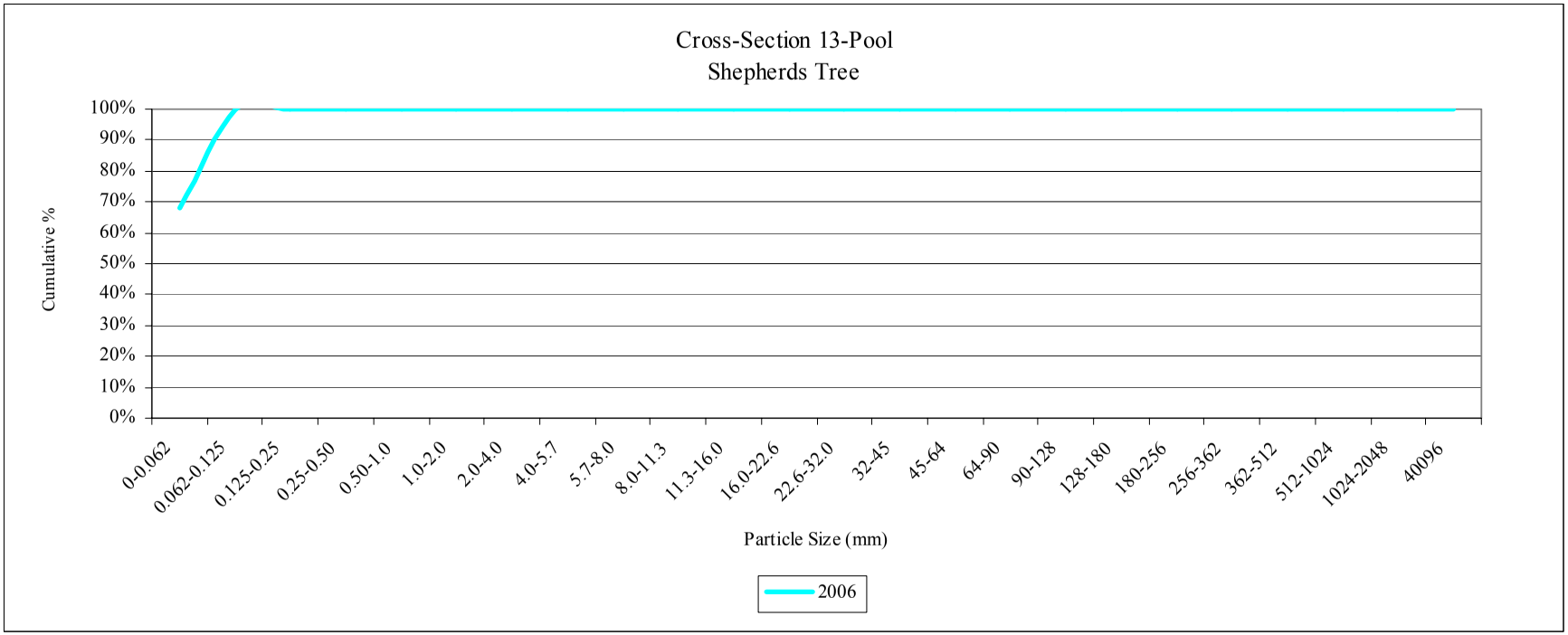
	d16	d35	d50	d84	d95	d100
2006	0.02	0.04	0.06	0.10	0.12	0.25

Project Name: Shepherds Tree					
Cross-Section: 12					
Feature: Riffle					
Cross-Section # 12			**2006**		
Description	**Material**	**Size (mm)**	**Total #**	**Item %**	**Cum %**
Silt/Clay	silt/clay	0-0.062	53	53%	53%
Sand	very fine sand	0.062-0.125	38	38%	91%
	fine sand	0.125-0.25	9	9%	100%
	medium sand	0.25-0.50	0	0%	100%
	coarse sand	0.50-1.0	0	0%	100%
	very coarse sand	1.0-2.0	0	0%	100%
Gravel	very fine gravel	2.0-4.0	0	0%	100%
	fine gravel	4.0-5.7	0	0%	100%
	fine gravel	5.7-8.0	0	0%	100%
	medium gravel	8.0-11.3	0	0%	100%
	medium gravel	11.3-16.0	0	0%	100%
	course gravel	16.0-22.6	0	0%	100%
	course gravel	22.6-32.0	0	0%	100%
	very coarse gravel	32-45	0	0%	100%
	very coarse gravel	45-64	0	0%	100%
Cobble	small cobble	64-90	0	0%	100%
	medium cobble	90-128	0	0%	100%
	large cobble	128-180	0	0%	100%
	very large cobble	180-256	0	0%	100%
Boulder	small boulder	256-362	0	0%	100%
	small boulder	362-512	0	0%	100%
	medium boulder	512-1024	0	0%	100%
	large boulder	1024-2048	0	0%	100%
Bedrock	bedrock	40096	0	0%	100%
TOTAL/%of whole count			100	100%	100%



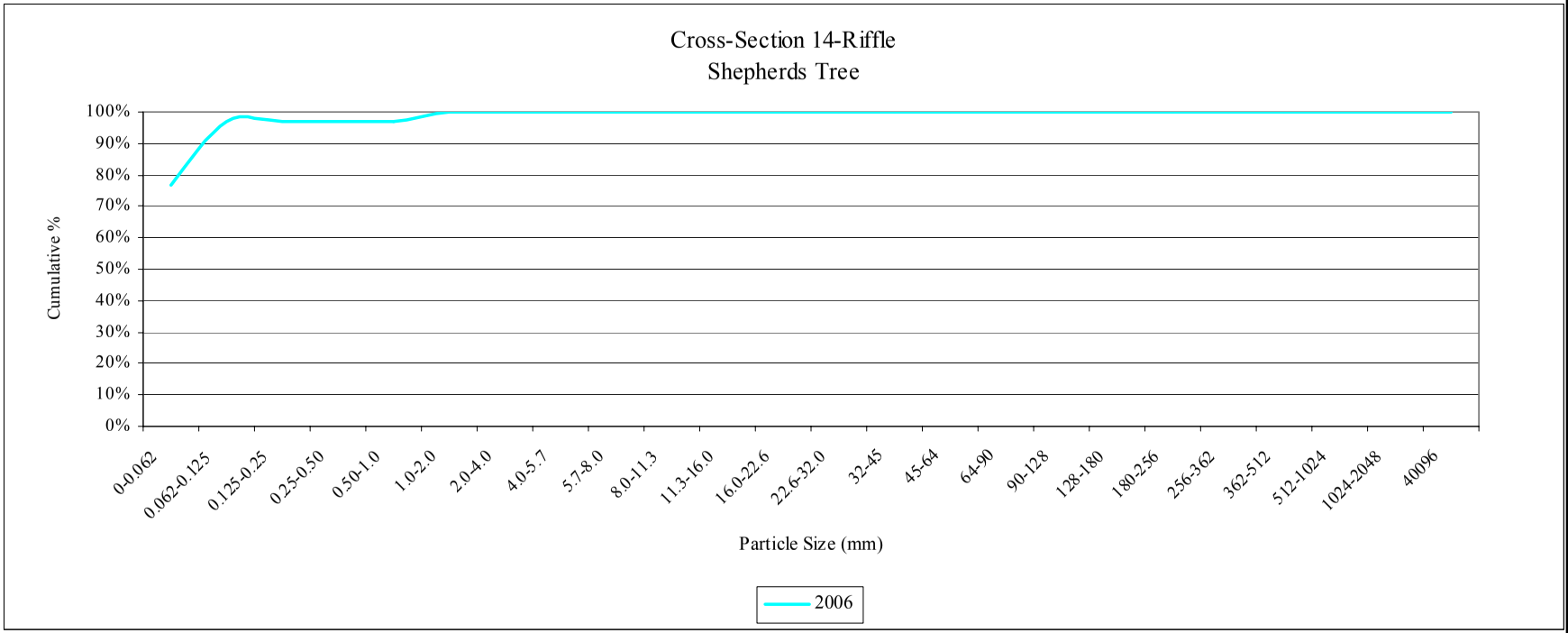
	d16	d35	d50	d84	d95	d100
2006	0.02	0.04	0.06	0.11	0.18	0.25

Project Name: Shepherds Tree					
Cross-Section: 13					
Feature: Pool					
Cross-Section # 13			**2006**		
Description	**Material**	**Size (mm)**	**Total #**	**Item %**	**Cum %**
Silt/Clay	silt/clay	0-0.062	68	68%	68%
Sand	very fine sand	0.062-0.125	32	32%	100%
	fine sand	0.125-0.25	0	0%	100%
	medium sand	0.25-0.50	0	0%	100%
	coarse sand	0.50-1.0	0	0%	100%
	very coarse sand	1.0-2.0	0	0%	100%
Gravel	very fine gravel	2.0-4.0	0	0%	100%
	fine gravel	4.0-5.7	0	0%	100%
	fine gravel	5.7-8.0	0	0%	100%
	medium gravel	8.0-11.3	0	0%	100%
	medium gravel	11.3-16.0	0	0%	100%
	course gravel	16.0-22.6	0	0%	100%
	course gravel	22.6-32.0	0	0%	100%
	very coarse gravel	32-45	0	0%	100%
	very coarse gravel	45-64	0	0%	100%
Cobble	small cobble	64-90	0	0%	100%
	medium cobble	90-128	0	0%	100%
	large cobble	128-180	0	0%	100%
	very large cobble	180-256	0	0%	100%
Boulder	small boulder	256-362	0	0%	100%
	small boulder	362-512	0	0%	100%
	medium boulder	512-1024	0	0%	100%
	large boulder	1024-2048	0	0%	100%
Bedrock	bedrock	40096	0	0%	100%
TOTAL/%of whole count			100	100%	100%



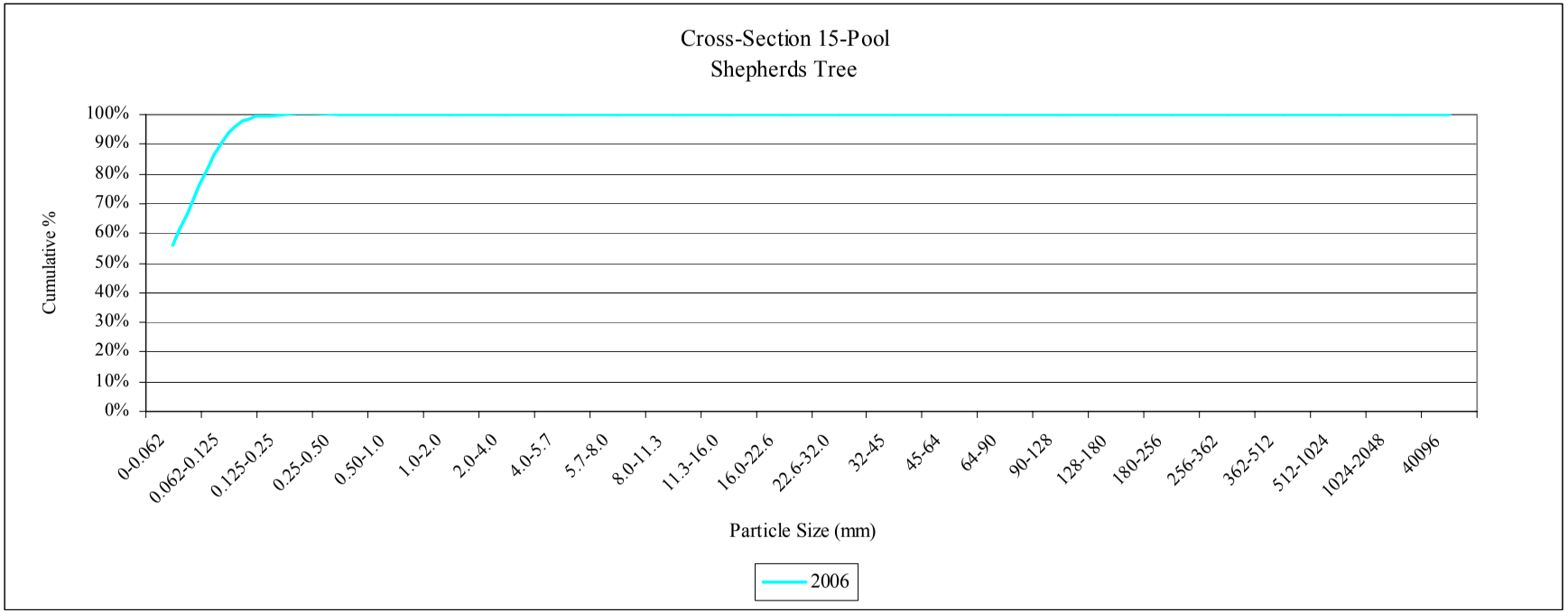
	d16	d35	d50	d84	d95	d100
2006	0.02	0.03	0.05	0.09	0.12	0.12

Project Name: Shepherds Tree					
Cross-Section: 14					
Feature: Riffle					
Cross-Section # 14			**2006**		
Description	**Material**	**Size (mm)**	**Total #**	**Item %**	**Cum %**
Silt/Clay	silt/clay	0-0.062	77	77%	77%
Sand	very fine sand	0.062-0.125	20	20%	97%
	fine sand	0.125-0.25	0	0%	97%
	medium sand	0.25-0.50	0	0%	97%
	coarse sand	0.50-1.0	0	0%	97%
	very coarse sand	1.0-2.0	3	3%	100%
Gravel	very fine gravel	2.0-4.0	0	0%	100%
	fine gravel	4.0-5.7	0	0%	100%
	fine gravel	5.7-8.0	0	0%	100%
	medium gravel	8.0-11.3	0	0%	100%
	medium gravel	11.3-16.0	0	0%	100%
	course gravel	16.0-22.6	0	0%	100%
	course gravel	22.6-32.0	0	0%	100%
	very coarse gravel	32-45	0	0%	100%
	very coarse gravel	45-64	0	0%	100%
Cobble	small cobble	64-90	0	0%	100%
	medium cobble	90-128	0	0%	100%
	large cobble	128-180	0	0%	100%
	very large cobble	180-256	0	0%	100%
Boulder	small boulder	256-362	0	0%	100%
	small boulder	362-512	0	0%	100%
	medium boulder	512-1024	0	0%	100%
	large boulder	1024-2048	0	0%	100%
Bedrock	bedrock	40096	0	0%	100%
TOTAL/%of whole count			100	100%	100%



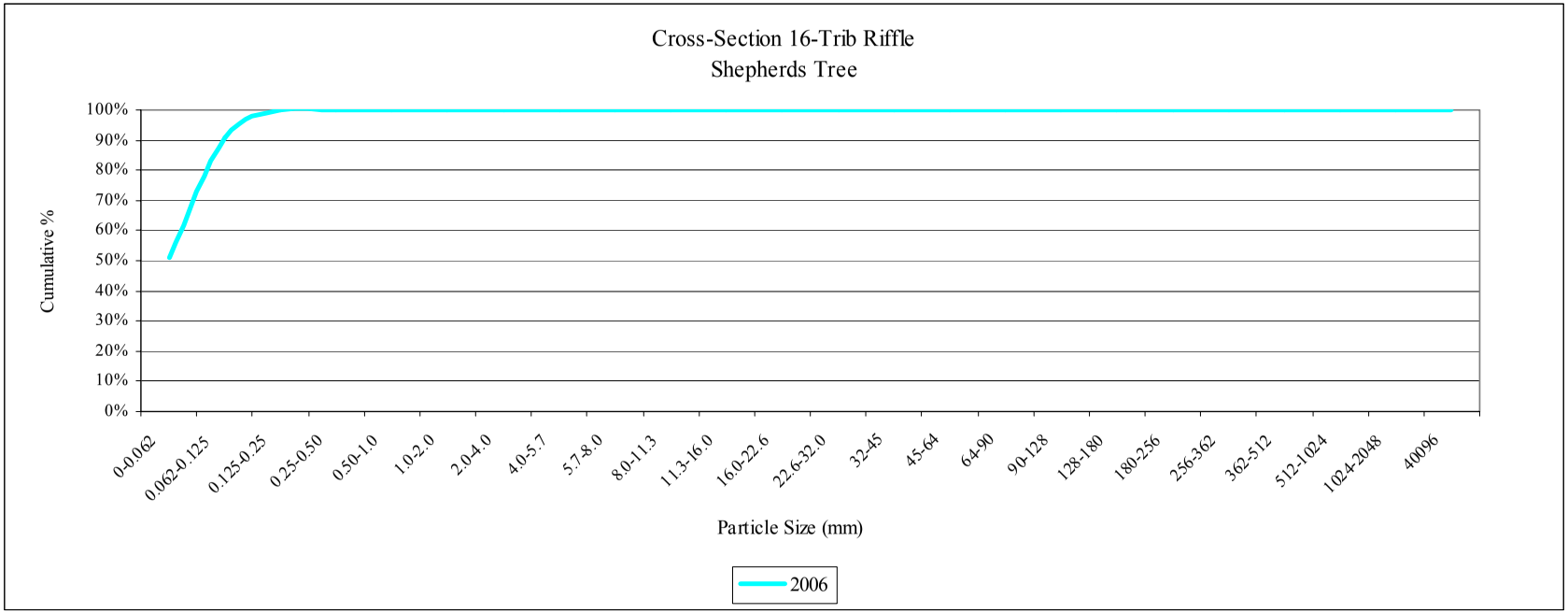
	d16	d35	d50	d84	d95	d100
2006	0.01	0.03	0.04	0.08	0.12	2.00

Project Name: Shepherds Tree					
Cross-Section: 15					
Feature: Pool					
Cross-Section # 15			**2006**		
Description	**Material**	**Size (mm)**	**Total #**	**Item %**	**Cum %**
Silt/Clay	silt/clay	0-0.062	56	56%	56%
Sand	very fine sand	0.062-0.125	38	38%	94%
	fine sand	0.125-0.25	6	6%	100%
	medium sand	0.25-0.50	0	0%	100%
	coarse sand	0.50-1.0	0	0%	100%
	very coarse sand	1.0-2.0	0	0%	100%
Gravel	very fine gravel	2.0-4.0	0	0%	100%
	fine gravel	4.0-5.7	0	0%	100%
	fine gravel	5.7-8.0	0	0%	100%
	medium gravel	8.0-11.3	0	0%	100%
	medium gravel	11.3-16.0	0	0%	100%
	course gravel	16.0-22.6	0	0%	100%
	course gravel	22.6-32.0	0	0%	100%
	very coarse gravel	32-45	0	0%	100%
	very coarse gravel	45-64	0	0%	100%
Cobble	small cobble	64-90	0	0%	100%
	medium cobble	90-128	0	0%	100%
	large cobble	128-180	0	0%	100%
	very large cobble	180-256	0	0%	100%
Boulder	small boulder	256-362	0	0%	100%
	small boulder	362-512	0	0%	100%
	medium boulder	512-1024	0	0%	100%
	large boulder	1024-2048	0	0%	100%
Bedrock	bedrock	40096	0	0%	100%
TOTAL/%of whole count			100	100%	100%



	d16	d35	d50	d84	d95	d100
2006	0.02	0.04	0.06	0.11	0.15	0.25

Project Name: Shepherds Tree					
Cross-Section: 16					
Feature: Trib Riffle					
Cross-Section # 16			**2006**		
Description	**Material**	**Size (mm)**	**Total #**	**Item %**	**Cum %**
Silt/Clay	silt/clay	0-0.062	51	51%	51%
Sand	very fine sand	0.062-0.125	40	40%	91%
	fine sand	0.125-0.25	9	9%	100%
	medium sand	0.25-0.50	0	0%	100%
	coarse sand	0.50-1.0	0	0%	100%
	very coarse sand	1.0-2.0	0	0%	100%
G r a v e l	very fine gravel	2.0-4.0	0	0%	100%
	fine gravel	4.0-5.7	0	0%	100%
	fine gravel	5.7-8.0	0	0%	100%
	medium gravel	8.0-11.3	0	0%	100%
	medium gravel	11.3-16.0	0	0%	100%
	course gravel	16.0-22.6	0	0%	100%
	course gravel	22.6-32.0	0	0%	100%
	very coarse gravel	32-45	0	0%	100%
	very coarse gravel	45-64	0	0%	100%
Cobble	small cobble	64-90	0	0%	100%
	medium cobble	90-128	0	0%	100%
	large cobble	128-180	0	0%	100%
	very large cobble	180-256	0	0%	100%
Boulder	small boulder	256-362	0	0%	100%
	small boulder	362-512	0	0%	100%
	medium boulder	512-1024	0	0%	100%
	large boulder	1024-2048	0	0%	100%
Bedrock	bedrock	40096	0	0%	100%
TOTAL/%of whole count			100	100%	100%



	d16	d35	d50	d84	d95	d100
2006	0.02	0.04	0.06	0.11	0.18	0.25

Appendix C
(Click here)

Jordan Jones & Goulding

APPENDIX C

Wetland Raw Data*

1. Data Tables for Hydrological Data
2. Precipitation – Water Level Plots for Well

*Raw data tables have been provided electronically.

Serial # - 04D0222 / Well 1		
-3.3	07:00:00	01-Mar-06
-3.3	07:00:00	02-Mar-06
-3.7	07:00:00	03-Mar-06
-4.3	07:00:00	04-Mar-06
-4.5	07:00:00	05-Mar-06
-3.2	07:00:00	06-Mar-06
-1.9	07:00:00	07-Mar-06
-3.2	07:00:00	08-Mar-06
-3.3	07:00:00	09-Mar-06
-3.3	07:00:00	10-Mar-06
-3.7	07:00:00	11-Mar-06
-1.5	07:00:00	12-Mar-06
-2	07:00:00	13-Mar-06
-2.6	07:00:00	14-Mar-06
-3.7	07:00:00	15-Mar-06
-3.9	07:00:00	16-Mar-06
-4.1	07:00:00	17-Mar-06
-4.5	07:00:00	18-Mar-06
-4.7	07:00:00	19-Mar-06
-4.8	07:00:00	20-Mar-06
3	07:00:00	21-Mar-06
3	07:00:00	22-Mar-06
0.2	07:00:00	23-Mar-06
-0.4	07:00:00	24-Mar-06
-0.9	07:00:00	25-Mar-06
-1.7	07:00:00	26-Mar-06
-2.4	07:00:00	27-Mar-06
-2.6	07:00:00	28-Mar-06
-3	07:00:00	29-Mar-06
-3.3	07:00:00	30-Mar-06
-3.3	07:00:00	31-Mar-06
-3	07:00:00	01-Apr-06
-3.9	07:00:00	02-Apr-06
-1.5	07:00:00	03-Apr-06
-1.9	07:00:00	04-Apr-06
-3	07:00:00	05-Apr-06
-3.7	07:00:00	06-Apr-06
-4.1	07:00:00	07-Apr-06
-2.6	07:00:00	08-Apr-06
-3.2	07:00:00	09-Apr-06
-4.1	07:00:00	10-Apr-06
-4.7	07:00:00	11-Apr-06
-5.4	07:00:00	12-Apr-06
-6	07:00:00	13-Apr-06
-6.7	07:00:00	14-Apr-06
-7.4	07:00:00	15-Apr-06
-8.9	07:00:00	16-Apr-06
-9.9	07:00:00	17-Apr-06
-10.8	07:00:00	18-Apr-06
-11.7	07:00:00	19-Apr-06
-4.1	07:00:00	20-Apr-06
-4.8	07:00:00	21-Apr-06
3	07:00:00	22-Apr-06
3	07:00:00	23-Apr-06
0.4	07:00:00	24-Apr-06
-1.1	07:00:00	25-Apr-06
3	07:00:00	26-Apr-06
3	07:00:00	27-Apr-06
3	07:00:00	28-Apr-06
1.7	07:00:00	29-Apr-06
-0.4	07:00:00	30-Apr-06

Serial # - 04D00E5 / Well 2		
-17.5	07:00:00	01-Mar-06
-17.6	07:00:00	02-Mar-06
-17.6	07:00:00	03-Mar-06
-18.2	07:00:00	04-Mar-06
-18.6	07:00:00	05-Mar-06
-17.1	07:00:00	06-Mar-06
-16.3	07:00:00	07-Mar-06
-17.3	07:00:00	08-Mar-06
-17.5	07:00:00	09-Mar-06
-17.1	07:00:00	10-Mar-06
-17.3	07:00:00	11-Mar-06
-15.4	07:00:00	12-Mar-06
-15.7	07:00:00	13-Mar-06
-16.3	07:00:00	14-Mar-06
-17.6	07:00:00	15-Mar-06
-17.5	07:00:00	16-Mar-06
-17.8	07:00:00	17-Mar-06
-18.2	07:00:00	18-Mar-06
-18.6	07:00:00	19-Mar-06
-18.8	07:00:00	20-Mar-06
-13.7	07:00:00	21-Mar-06
-14.4	07:00:00	22-Mar-06
-14.8	07:00:00	23-Mar-06
-14.6	07:00:00	24-Mar-06
-15.4	07:00:00	25-Mar-06
-16.7	07:00:00	26-Mar-06
-17.3	07:00:00	27-Mar-06
-17.1	07:00:00	28-Mar-06
-17.3	07:00:00	29-Mar-06
-18.2	07:00:00	30-Mar-06
-18.6	07:00:00	31-Mar-06
-18.2	07:00:00	01-Apr-06
-19.2	07:00:00	02-Apr-06
-17.1	07:00:00	03-Apr-06
-17.8	07:00:00	04-Apr-06
-18	07:00:00	05-Apr-06
-18.6	07:00:00	06-Apr-06
-18.6	07:00:00	07-Apr-06
-15.9	07:00:00	08-Apr-06
-18.2	07:00:00	09-Apr-06
-18.6	07:00:00	10-Apr-06
-19.4	07:00:00	11-Apr-06
-20.1	07:00:00	12-Apr-06
-21.1	07:00:00	13-Apr-06
-22	07:00:00	14-Apr-06
-23.1	07:00:00	15-Apr-06
-24.1	07:00:00	16-Apr-06
-25	07:00:00	17-Apr-06
-26.2	07:00:00	18-Apr-06
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-17.6	07:00:00	20-Apr-06
-18.6	07:00:00	21-Apr-06
-13.8	07:00:00	22-Apr-06
-15.2	07:00:00	23-Apr-06
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-15.2	07:00:00	25-Apr-06
-14.2	07:00:00	26-Apr-06
-14.4	07:00:00	27-Apr-06
-15.2	07:00:00	28-Apr-06
-15.4	07:00:00	29-Apr-06
-15.6	07:00:00	30-Apr-06

Serial # - 05044BD / Well 3		
07:00:00		01-Mar-06
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07:00:00		03-Mar-06
07:00:00		04-Mar-06
07:00:00		05-Mar-06
07:00:00		06-Mar-06
07:00:00		07-Mar-06
07:00:00		08-Mar-06
07:00:00		09-Mar-06
07:00:00		10-Mar-06
07:00:00		11-Mar-06
07:00:00		12-Mar-06
07:00:00		13-Mar-06
07:00:00		14-Mar-06
07:00:00		15-Mar-06
07:00:00		16-Mar-06
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07:00:00		18-Mar-06
07:00:00		19-Mar-06
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07:00:00		01-Apr-06
07:00:00		02-Apr-06
07:00:00		03-Apr-06
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07:00:00		28-Apr-06
07:00:00		29-Apr-06
07:00:00		30-Apr-06

Serial # - 0560C70 / Well 4		
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-2.8	07:00:00	03-Mar-06
-4.3	07:00:00	04-Mar-06
-4.9	07:00:00	05-Mar-06
-2.4	07:00:00	06-Mar-06
-1.9	07:00:00	07-Mar-06
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-6.2	07:00:00	18-Mar-06
-7.5	07:00:00	19-Mar-06
-8.5	07:00:00	20-Mar-06
-0.6	07:00:00	21-Mar-06
-0.8	07:00:00	22-Mar-06
-1.7	07:00:00	23-Mar-06
-1.3	07:00:00	24-Mar-06
-1.5	07:00:00	25-Mar-06
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-2.8	07:00:00	27-Mar-06
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-3	07:00:00	29-Mar-06
-3.4	07:00:00	30-Mar-06
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-4.7	07:00:00	09-Apr-06
-7.3	07:00:00	10-Apr-06
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-11.8	07:00:00	12-Apr-06
-13.2	07:00:00	13-Apr-06
-14.7	07:00:00	14-Apr-06
-16.2	07:00:00	15-Apr-06
-19.5	07:00:00	16-Apr-06
-20.9	07:00:00	17-Apr-06
-22.2	07:00:00	18-Apr-06
-22.9	07:00:00	19-Apr-06
-11.8	07:00:00	20-Apr-06
-13.2	07:00:00	21-Apr-06
-0.4	07:00:00	22-Apr-06
-0.4	07:00:00	23-Apr-06
-1.1	07:00:00	24-Apr-06
-2.3	07:00:00	25-Apr-06
1.1	07:00:00	26-Apr-06
1.1	07:00:00	27-Apr-06
0.4	07:00:00	28-Apr-06
-0.4	07:00:00	29-Apr-06
-1.3	07:00:00	30-Apr-06

Serial # - 049418D / Well 5		
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-36.3	07:00:00	13-Mar-06
-36.3	07:00:00	14-Mar-06
-36.3	07:00:00	15-Mar-06
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-36.3	07:00:00	23-Mar-06
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-36.3	07:00:00	27-Mar-06
-36.3	07:00:00	28-Mar-06
-36.3	07:00:00	29-Mar-06
-36.3	07:00:00	30-Mar-06
-36.3	07:00:00	31-Mar-06
-36.1	07:00:00	01-Apr-06
-36.1	07:00:00	02-Apr-06
-36.1	07:00:00	03-Apr-06
-36.1	07:00:00	04-Apr-06
-36.1	07:00:00	05-Apr-06
-36.1	07:00:00	06-Apr-06
-36.1	07:00:00	07-Apr-06
-36.1	07:00:00	08-Apr-06
-36.1	07:00:00	09-Apr-06
-36.1	07:00:00	10-Apr-06
-36.1	07:00:00	11-Apr-06
-35.9	07:00:00	12-Apr-06
-35.9	07:00:00	13-Apr-06
-35.9	07:00:00	14-Apr-06
-35.9	07:00:00	15-Apr-06
-35.9	07:00:00	16-Apr-06
-35.9	07:00:00	17-Apr-06
-35.9	07:00:00	18-Apr-06
-35.9	07:00:00	19-Apr-06
-35.9	07:00:00	20-Apr-06
-35.9	07:00:00	21-Apr-06
-35.9	07:00:00	22-Apr-06
-35.9	07:00:00	23-Apr-06
-36.1	07:00:00	24-Apr-06
-35.9	07:00:00	25-Apr-06
-30.3	07:00:00	26-Apr-06
-35.5	07:00:00	27-Apr-06
-35.9	07:00:00	28-Apr-06
-35.9	07:00:00	29-Apr-06
-35.9	07:00:00	30-Apr-06

Serial # - 0562DBE / Well 6		
-2.1	07:00:00	01-Mar-06
-2.1	07:00:00	02-Mar-06
-3.8	07:00:00	03-Mar-06
-5	07:00:00	04-Mar-06
-5.4	07:00:00	05-Mar-06
-1.5	07:00:00	06-Mar-06
-1.3	07:00:00	07-Mar-06
-2.9	07:00:00	08-Mar-06
-2.3	07:00:00	09-Mar-06
-2.5	07:00:00	10-Mar-06
-3.3	07:00:00	11-Mar-06
-1.3	07:00:00	12-Mar-06
-1.2	07:00:00	13-Mar-06
-1.5	07:00:00	14-Mar-06
-3.8	07:00:00	15-Mar-06
-4	07:00:00	16-Mar-06
-4.6	07:00:00	17-Mar-06
-5.7	07:00:00	18-Mar-06
-6.3	07:00:00	19-Mar-06
-6.3	07:00:00	20-Mar-06
0.2	07:00:00	21-Mar-06
-1.2	07:00:00	22-Mar-06
-1.9	07:00:00	23-Mar-06
-1	07:00:00	24-Mar-06
-1.5	07:00:00	25-Mar-06
-2.7	07:00:00	26-Mar-06
-3.3	07:00:00	27-Mar-06
-2.7	07:00:00	28-Mar-06
-3.3	07:00:00	29-Mar-06
-3.8	07:00:00	30-Mar-06
-4	07:00:00	31-Mar-06
-3.4	07:00:00	01-Apr-06
-5.6	07:00:00	02-Apr-06
-1	07:00:00	03-Apr-06
-2.5	07:00:00	04-Apr-06
-3.6	07:00:00	05-Apr-06
-4.6	07:00:00	06-Apr-06
-5	07:00:00	07-Apr-06
-0.6	07:00:00	08-Apr-06
-3.3	07:00:00	09-Apr-06
-4.6	07:00:00	10-Apr-06
-5.7	07:00:00	11-Apr-06
-6.9	07:00:00	12-Apr-06
-7.9	07:00:00	13-Apr-06
-9	07:00:00	14-Apr-06
-10	07:00:00	15-Apr-06
-11.7	07:00:00	16-Apr-06
-13	07:00:00	17-Apr-06
-14.4	07:00:00	18-Apr-06
-15.7	07:00:00	19-Apr-06
-2.3	07:00:00	20-Apr-06
-4.2	07:00:00	21-Apr-06
1.1	07:00:00	22-Apr-06
-0.2	07:00:00	23-Apr-06
-0.8	07:00:00	24-Apr-06
-1.7	07:00:00	25-Apr-06
0.8	07:00:00	26-Apr-06
0.8	07:00:00	27-Apr-06
-0.2	07:00:00	28-Apr-06
-1	07:00:00	29-Apr-06
-1.7	07:00:00	30-Apr-06

Prepared For:

Ecosystem Enhancement Program

Shepherds Tree Stream and Wetland Restoration
Year 2 of 5

Appendix C1. Data Tables for Hydrological Data

Date: January 2007
Project No.: 333

Jordan Jones & Boulding INCORPORATED

File name

Well 1			Well 2			Well 3			Well 4			Well 5			Well 6		
-1.3	07:00:00	01-May-06	-16.9	07:00:00	01-May-06	07:00:00	01-May-06	-2.3	07:00:00	01-May-06	-35.9	07:00:00	01-May-06	-2.5	07:00:00	01-May-06
-3	07:00:00	02-May-06	-17.5	07:00:00	02-May-06	07:00:00	02-May-06	-3.8	07:00:00	02-May-06	-35.9	07:00:00	02-May-06	-4.6	07:00:00	02-May-06
-3.9	07:00:00	03-May-06	-17.6	07:00:00	03-May-06	07:00:00	03-May-06	-4.5	07:00:00	03-May-06	-35.9	07:00:00	03-May-06	-5.9	07:00:00	03-May-06
-5.2	07:00:00	04-May-06	-18.8	07:00:00	04-May-06	07:00:00	04-May-06	-6.4	07:00:00	04-May-06	-35.9	07:00:00	04-May-06	-9.2	07:00:00	04-May-06
-6.5	07:00:00	05-May-06	-19.5	07:00:00	05-May-06	07:00:00	05-May-06	-7.7	07:00:00	05-May-06	-35.9	07:00:00	05-May-06	-10.5	07:00:00	05-May-06
-6.5	07:00:00	06-May-06	-19.2	07:00:00	06-May-06	07:00:00	06-May-06	-7.7	07:00:00	06-May-06	-35.9	07:00:00	06-May-06	-9.4	07:00:00	06-May-06
-5.4	07:00:00	07-May-06	-16.9	07:00:00	07-May-06	07:00:00	07-May-06	-8.5	07:00:00	07-May-06	-35.9	07:00:00	07-May-06	-5.4	07:00:00	07-May-06
0.6	07:00:00	08-May-06	-15.6	07:00:00	08-May-06	07:00:00	08-May-06	-0.9	07:00:00	08-May-06	-35.9	07:00:00	08-May-06	-0.6	07:00:00	08-May-06
-0.2	07:00:00	09-May-06	-15.4	07:00:00	09-May-06	07:00:00	09-May-06	-1.3	07:00:00	09-May-06	-35.9	07:00:00	09-May-06	-1	07:00:00	09-May-06
-1.3	07:00:00	10-May-06	-15.6	07:00:00	10-May-06	07:00:00	10-May-06	-1.7	07:00:00	10-May-06	-35.9	07:00:00	10-May-06	-1.5	07:00:00	10-May-06
-1.9	07:00:00	11-May-06	-16.3	07:00:00	11-May-06	07:00:00	11-May-06	-1.7	07:00:00	11-May-06	-35.9	07:00:00	11-May-06	-1.7	07:00:00	11-May-06
-3.5	07:00:00	12-May-06	-17.3	07:00:00	12-May-06	07:00:00	12-May-06	-4.1	07:00:00	12-May-06	-35.9	07:00:00	12-May-06	-3.6	07:00:00	12-May-06
-4.8	07:00:00	13-May-06	-18	07:00:00	13-May-06	07:00:00	13-May-06	-5.8	07:00:00	13-May-06	-35.9	07:00:00	13-May-06	-5.7	07:00:00	13-May-06
-7.1	07:00:00	14-May-06	-19	07:00:00	14-May-06	07:00:00	14-May-06	-7.9	07:00:00	14-May-06	-35.9	07:00:00	14-May-06	-8.4	07:00:00	14-May-06
-7.8	07:00:00	15-May-06	-19.4	07:00:00	15-May-06	07:00:00	15-May-06	-9	07:00:00	15-May-06	-35.9	07:00:00	15-May-06	-9.2	07:00:00	15-May-06
-9.5	07:00:00	16-May-06	-22	07:00:00	16-May-06	07:00:00	16-May-06	-11.8	07:00:00	16-May-06	-35.9	07:00:00	16-May-06	-11.5	07:00:00	16-May-06
-10.2	07:00:00	17-May-06	-23.5	07:00:00	17-May-06	07:00:00	17-May-06	-14.3	07:00:00	17-May-06	-35.9	07:00:00	17-May-06	-13	07:00:00	17-May-06
-11.4	07:00:00	18-May-06	-24.7	07:00:00	18-May-06	07:00:00	18-May-06	-16.3	07:00:00	18-May-06	-35.7	07:00:00	18-May-06	-14.6	07:00:00	18-May-06
-12.3	07:00:00	19-May-06	-24.9	07:00:00	19-May-06	07:00:00	19-May-06	-19.4	07:00:00	19-May-06	-35.9	07:00:00	19-May-06	-14.8	07:00:00	19-May-06
-12.5	07:00:00	20-May-06	-19	07:00:00	20-May-06	07:00:00	20-May-06	-20.3	07:00:00	20-May-06	-35.9	07:00:00	20-May-06	-11.3	07:00:00	20-May-06
-5.8	07:00:00	21-May-06	-16.5	07:00:00	21-May-06	07:00:00	21-May-06	-4.3	07:00:00	21-May-06	-35.9	07:00:00	21-May-06	-1.7	07:00:00	21-May-06
-8.2	07:00:00	22-May-06	-18	07:00:00	22-May-06	07:00:00	22-May-06	-9	07:00:00	22-May-06	-35.9	07:00:00	22-May-06	-5.4	07:00:00	22-May-06
-9.5	07:00:00	23-May-06	-19.4	07:00:00	23-May-06	07:00:00	23-May-06	-11.8	07:00:00	23-May-06	-35.9	07:00:00	23-May-06	-7.5	07:00:00	23-May-06
-11	07:00:00	24-May-06	-23.3	07:00:00	24-May-06	07:00:00	24-May-06	-15.2	07:00:00	24-May-06	-35.9	07:00:00	24-May-06	-11.3	07:00:00	24-May-06
-12.3	07:00:00	25-May-06	-24.5	07:00:00	25-May-06	07:00:00	25-May-06	-19.5	07:00:00	25-May-06	-35.9	07:00:00	25-May-06	-13.6	07:00:00	25-May-06
-14	07:00:00	26-May-06	-26.8	07:00:00	26-May-06	07:00:00	26-May-06	-21.4	07:00:00	26-May-06	-35.9	07:00:00	26-May-06	-16.3	07:00:00	26-May-06
-14.3	07:00:00	27-May-06	-23.3	07:00:00	27-May-06	07:00:00	27-May-06	-21.8	07:00:00	27-May-06	-35.9	07:00:00	27-May-06	-12.6	07:00:00	27-May-06
-15.4	07:00:00	28-May-06	-26.9	07:00:00	28-May-06	07:00:00	28-May-06	-23.1	07:00:00	28-May-06	-35.9	07:00:00	28-May-06	-16.5	07:00:00	28-May-06
-16.6	07:00:00	29-May-06	-28.5	07:00:00	29-May-06	07:00:00	29-May-06	-25.2	07:00:00	29-May-06	-35.9	07:00:00	29-May-06	-18.4	07:00:00	29-May-06
-17.5	07:00:00	30-May-06	-30	07:00:00	30-May-06	07:00:00	30-May-06	-26.7	07:00:00	30-May-06	-35.9	07:00:00	30-May-06	-19.9	07:00:00	30-May-06
-18.4	07:00:00	31-May-06	-31.1	07:00:00	31-May-06	07:00:00	31-May-06	-27.4	07:00:00	31-May-06	-35.7	07:00:00	31-May-06	-21.3	07:00:00	31-May-06
-19.5	07:00:00	01-Jun-06	-32.4	07:00:00	01-Jun-06	07:00:00	01-Jun-06	-29.3	07:00:00	01-Jun-06	-35.7	07:00:00	01-Jun-06	-22.4	07:00:00	01-Jun-06
-20.3	07:00:00	02-Jun-06	-32.6	07:00:00	02-Jun-06	07:00:00	02-Jun-06	-30.3	07:00:00	02-Jun-06	-35.9	07:00:00	02-Jun-06	-23.6	07:00:00	02-Jun-06
-3.3	07:00:00	03-Jun-06	-13.5	07:00:00	03-Jun-06	07:00:00	03-Jun-06	0.2	07:00:00	03-Jun-06	-35.7	07:00:00	03-Jun-06	1.1	07:00:00	03-Jun-06
-5.6	07:00:00	04-Jun-06	-14.6	07:00:00	04-Jun-06	07:00:00	04-Jun-06	-2.6	07:00:00	04-Jun-06	-35.7	07:00:00	04-Jun-06	-1.3	07:00:00	04-Jun-06
-8.7	07:00:00	05-Jun-06	-15.9	07:00:00	05-Jun-06	07:00:00	05-Jun-06	-4.7	07:00:00	05-Jun-06	-35.7	07:00:00	05-Jun-06	-2.9	07:00:00	05-Jun-06
-9.9	07:00:00	06-Jun-06	-17.5	07:00:00	06-Jun-06	07:00:00	06-Jun-06	-6.6	07:00:00	06-Jun-06	-35.7	07:00:00	06-Jun-06	-5.2	07:00:00	06-Jun-06
-11.4	07:00:00	07-Jun-06	-20.1	07:00:00	07-Jun-06	07:00:00	07-Jun-06	-10.5	07:00:00	07-Jun-06	-35.7	07:00:00	07-Jun-06	-8.6	07:00:00	07-Jun-06
-12.5	07:00:00	08-Jun-06	-23.3	07:00:00	08-Jun-06	07:00:00	08-Jun-06	-13.7	07:00:00	08-Jun-06	-35.5	07:00:00	08-Jun-06	-11.7	07:00:00	08-Jun-06
-13.8	07:00:00	09-Jun-06	-25	07:00:00	09-Jun-06	07:00:00	09-Jun-06	-17.1	07:00:00	09-Jun-06	-35.7	07:00:00	09-Jun-06	-13.8	07:00:00	09-Jun-06
-14.9	07:00:00	10-Jun-06	-26.9	07:00:00	10-Jun-06	07:00:00	10-Jun-06	-20.3	07:00:00	10-Jun-06	-35.7	07:00:00	10-Jun-06	-16.1	07:00:00	10-Jun-06
-16.4	07:00:00	11-Jun-06	-28.8	07:00:00	11-Jun-06	07:00:00	11-Jun-06	-22.4	07:00:00	11-Jun-06	-35.7	07:00:00	11-Jun-06	-18.2	07:00:00	11-Jun-06
-16	07:00:00	12-Jun-06	-16.5	07:00:00	12-Jun-06	07:00:00	12-Jun-06	-8.3	07:00:00	12-Jun-06	-35.5	07:00:00	12-Jun-06	-1.9	07:00:00	12-Jun-06
-0.4	07:00:00	13-Jun-06	-13.8	07:00:00	13-Jun-06	07:00:00	13-Jun-06	-0.9	07:00:00	13-Jun-06	-35.5	07:00:00	13-Jun-06	0.4	07:00:00	13-Jun-06
2.6	07:00:00	14-Jun-06	-13.7	07:00:00	14-Jun-06	07:00:00	14-Jun-06	0	07:00:00	14-Jun-06	-35.5	07:00:00	14-Jun-06	1	07:00:00	14-Jun-06
-0.7	07:00:00	15-Jun-06	-14.2	07:00:00	15-Jun-06	07:00:00	15-Jun-06	-0.9	07:00:00	15-Jun-06	-35.5	07:00:00	15-Jun-06	-0.4	07:00:00	15-Jun-06
-3.5	07:00:00	16-Jun-06	-15.4	07:00:00	16-Jun-06	07:00:00	16-Jun-06	-3.8	07:00:00	16-Jun-06	-35.5	07:00:00	16-Jun-06	-2.5	07:00:00	16-Jun-06
-6	07:00:00	17-Jun-06	-16.7	07:00:00	17-Jun-06	07:00:00	17-Jun-06	-5.3	07:00:00	17-Jun-06	-35.7	07:00:00	17-Jun-06	-5	07:00:00	17-Jun-06
-9.1	07:00:00	18-Jun-06	-19.7	07:00:00	18-Jun-06	07:00:00	18-Jun-06	-9.2	07:00:00	18-Jun-06	-35.7	07:00:00	18-Jun-06	-9	07:00:00	18-Jun-06
-10.6	07:00:00	19-Jun-06	-23.7	07:00:00	19-Jun-06	07:00:00	19-Jun-06	-13	07:00:00	19-Jun-06	-35.7	07:00:00	19-Jun-06	-12.5	07:00:00	19-Jun-06
-12.1	07:00:00	20-Jun-06	-25.6	07:00:00	20-Jun-06	07:00:00	20-Jun-06	-17.3	07:00:00	20-Jun-06	-35.7	07:00:00	20-Jun-06	-14.9	07:00:00	20-Jun-06
-13.8	07:00:00	21-Jun-06	-27.3	07:00:00	21-Jun-06	07:00:00	21-Jun-06	-20.7	07:00:00	21-Jun-06	-35.5	07:00:00	21-Jun-06	-17.2	07:00:00	21-Jun-06
-15.3	07:00:00	22-Jun-06	-28.6	07:00:00	22-Jun-06	07:00:00	22-Jun-06	-22.5	07:00:00	22-Jun-06	-35.7	07:00:00	22-Jun-06	-19.2	07:00:00	22-Jun-06
-16.7	07:00:00	23-Jun-06	-30.4	07:00:00	23-Jun-06	07:00:00	23-Jun-06	-24.6	07:00:00	23-Jun-06	-35.7	07:00:00	23-Jun-06	-20.7	07:00:00	23-Jun-06
2.8	07:00:00	24-Jun-06	-12.9	07:00:00	24-Jun-06	07:00:00	24-Jun-06	0	07:00:00	24-Jun-06	-35.5	07:00:00	24-Jun-06	1	07:00:00	24-Jun-06
-0.6	07:00:00	25-Jun-06	-13.3	07:00:00	25-Jun-06	07:00:00	25-Jun-06	-1.5	07:00:00	25-Jun-06	-35.5	07:00:00	25-Jun-06	-0.4	07:00:00	25-Jun-06
3	07:00:00	26-Jun-06	-13.1	07:00:00	26-Jun-06	07:00:00	26-Jun-06	0.2	07:00:00	26-Jun-06	-35.5	07:00:00	26-Jun-06	1.1	07:00:00	26-Jun-06
3	07:00:00	27-Jun-06	-12.1	07:00:00	27-Jun-06	07:00:00	27-Jun-06	0.9	07:00:00	27-Jun-06	-32.6	07:00:00	27-Jun-06	2.3	07:00:00	27-Jun-06
3	07:00:00	28-Jun-06	-13.1	07:00:00	28-Jun-06	07:00:00	28-Jun-06	1.1	07:00:00	28-Jun-06	-35.5	07:00:00	28-Jun-06	1	07:00:00	28-Jun-06
2.6	07:00:00	29-Jun-06	-13.7	07:00:00	29-Jun-06	07:00:00	29-Jun-06	0	07:00:00	29-Jun-06	-35.5	07:00:00	29-Jun-06	-0.4	07:00:00	29-Jun-06
-0.9	07:00:00	30-Jun-06	-15.2	07:00:00	30-Jun-06	07:00:00	30-Jun-06	-1.9	07:00:00	30-Jun-06	-35.5	07:00:00	30-Jun-06	-1.9	07:00:00	30-Jun-06
-3.2	07:00:00	01-Jul-06	-16.7	07:00:00	01-Jul-06	07:00:00	01-Jul-06	-4.3	07:00:00	01-Jul-06	-35.5	07:00:00	01-Jul-06	-4.4	07:00:00	01-Jul-06
-5.2	07:00:00	02-Jul-06	-20.5	07:00:00	02-Jul-06	07:00:00	02-Jul-06	-6	07:00:00	02-Jul-06	-35.5	07:00:00	02-Jul-06	-7.7	07:00:00	02-Jul-06
-8.6	07:00:00	03-Jul-06	-23.9	07:00:00	03-Jul-06	07:00:00	03-Jul-06	-8.6	07:00:00	03-Jul-06	-35.5	07:00:00	03-Jul-06	-10.9	07:00:00	03-Jul-06
-9.9	07:00:00	04-Jul-06	-25.8	07:00:00	04-Jul-06	07:00:00	04-Jul-06	-12.6	07:00:00	04-Jul-06	-35.5	07:00:00	04-Jul-06	-13.8	07:00:00	04-Jul-06
-11.2	07:00:00	05-Jul-06	-26.8	07:00:00	05-Jul-06	07:00:00	05-Jul-06	-16.3	07:00:00	05-Jul-06	-35.7	07:00:00	05-Jul-06	-15.7	07:00:00	05-Jul-06
-10.4	07:00:00	06-Jul-06	-13.1	07:00:00	06-Jul-06	07:00:00	06-Jul-06	-13.5	07:00:00	06-Jul-06	-35.5	07:00:00	06-Jul-06	-10	07:00:00	06-Jul-06
-1.9	07:00:00	07-Jul-06	-14.4	07:00:00	07-Jul-06	07:00:00	07-Jul-06	-2.1	07:00:00	07-Jul-06	-35.9	07:00:00	07-Jul-06	-0.2	07:00:00	07-Jul-06
-3.9	07:00:00	08-Jul-06	-15.9	07:00:00	08-Jul-06	07:00:00	08-Jul-06	-4.5	07:00:00	08-Jul-06	-35.5	07:00:00	08-Jul-06	-1.9	07:00:00	08-Jul-06
-6.7	07:00:00	09-Jul-06	-17.6	07:00:00	09-Jul-06	07:00:00	09-Jul-06	-6.2	07:00:00	09-Jul-06	-35.5	07:00:00	09-Jul-06	-4.8	07:00:00	09-Jul-06
-8.7	07:00:00	10-Jul-06	-20.5	07:00:00	10-Jul-06	07:00:00	10-Jul-06	-8.1	07:00:00	10-Jul-06	-35.5	07:00:00	10-Jul-06	-7.5	07:00:00	10-Jul-06
-10.2	07:00:00	11-Jul-06	-24.1	07:00:00	11-Jul-06	07:00:00	11-Jul-06	-12.2	07:00:00	11-Jul-06	-35.5	07:00:00	11-Jul-06	-11.3	07:00:00	11-Jul-06
-11.4	07:00:00	12-Jul-06	-25.6	07:00:00	12-Jul-06	07:00:00	12-Jul-06	-15.6	07:00:00	12-Jul-06	-35.5	07:00:00	12-Jul-06	-13.8	07:00:00	12-Jul-06
-12.8	07:00:00	13-Jul-06	-27.9	07:00:00	13-Jul-06	07:00:00	13-Jul-06	-19.9	07:00:00	13-Jul-06	-35.5	07:00:00	13-Jul-06	-16.3	07:00:00	13-Jul-06
-13.8	07:00:00	14-Jul-06	-28.1	07:00:00	14-Jul-06	07:00:00	14-Jul-06	-21.4	07:00:00	14-Jul-06	-35.5	07:00:00	14-Jul-06	-17.4	07:00:00	14-Jul-06
-14.7	07:00:00	15-Jul-06	-29.4	07:00:00	15-Jul-06	07:00:00	15-Jul-06	-22.7	07:00:00	15-Jul-06	-35.7	07:00:00	15-Jul-06	-19	07:00:00	15-Jul-06
-16.2	07:00:00	16-Jul-06	-29.8	07:00:00	16-Jul-06	07:00:00	16-Jul-06	-24.8	07:00:00	16-Jul-06	-35.5	07:00:00	16-Jul-06	-20.9	07:00:00	16-Jul-06
-17.7	07:00:00	17-Jul-06	-30	07:00:00	17-Jul-06	07:00:00	17-Jul-06	-26.7	07:00:00	17-Jul-06	-35.5	07:00:00	17-Jul-06	-22.6	07:00:00	17-Jul-06
-19.4	07:00:00	18-Jul-06	-30.2	07:00:00	18-Jul-06	07:00:00	18-Jul-06	-27.8	07:00:00	18-Jul-06	-35.5	07:00:00	18-Jul-06	-24.1	07:00:00	18-Jul-06
-20.8	07:00:00	19-Jul-06	-30	07:00:00	19-Jul-06	07:00:00	19-Jul-06	-28.9	07:00:00	19-Jul-06	-35.5	07:00:00	19-Jul-06	-24.5	07:00:00	19-Jul-06
-22.5	07:00:00	20-Jul-06	-30.7	07:00:00	20-Jul-06	07:00:00	20-Jul-06	-30.3	07:00:00	20-Jul-06	-35.5	07:00:00	20-Jul-06	-25.1	07:00:00	20-Jul-06
-22.3	07:00:00	21-Jul-06	-29.4	07:00:00	21-Jul-06	07:00:00	21-Jul-06	-28	07:00:00	21-Jul-06	-35.5	07:00:00	21-Jul-06	-16.5	07:00:00	21-Jul-06
-22.1	07:00:00	22-Jul-06	-29.8	07:00:00	22-Jul-06	07:00:00	22-Jul-06	-26.9	07:00:00	22-Jul-06	-35.5	07:00:00	22-Jul-06	-14.6	07:00:00	22-Jul-06
-22	07:00:00	23-Jul-06	-30	07:00:00	23-Jul-06	07:00:00	23-Jul-06	-26.3	07:00:00	23-Jul-06	-35.4	07:00:00	23-Jul-06	-13	07:00:00	23-Jul-06
-22	07:00:00	24-Jul-06	-30.4	07:00:00	24-Jul-06	07:00:00	24-Jul-06	-26.3	07:00:00	24-Jul-06	-35.5	07:00:00	24-Jul-06	-14.2	07:00:00	24-Jul-06
-22	07:00:00	25-Jul-06	-30	07:00:00	25-Jul-06	07:00:00	25-Jul-06	-26.3	07:00:00	25-Jul-06	-35.4	07:00:00	25-Jul-06	-15.9	07:00:00	25-Jul-06
-22.1	07:00:00	26-Jul-06	-30.4	07:00:00	26-Jul-06	07:00:00	26-Jul-06	-26.9	07:00:00	26-Jul-06	-35.5	07:00:00	26-Jul-06	-17.2	07:00:00	26-Jul-06
-22	07:00:00	27-Jul-06	-30.2	07:00:00	27-Jul-06	07:00:00	27-Jul-06	-29.3	07:00:00	27-Jul-06	-35.5	07:00:00	27-Jul-06	-18.4	07:00:00	27-Jul-06
-22.1	07:00:00	28-Jul-06	-30.4	07:00:00	28-Jul-06	07:00:00	28-Jul-06	-30.4	07:00:00	28-Jul-06	-35.5	07:00:00	28-Jul-06	-20.3	07:00:00	28-Jul-06
-22.1	07:00:00	29-Jul-06	-30.9	07:00:00	29-Jul-06	07:00:00	29-Jul-06	-30.4	07:00:00	29-Jul-06	-35.5	07:00:00	29-Jul-06	-21.8	07:00:00	29-Jul-06
-21.8	07:00:00	30-Jul-06	-30.5	07:00:00	30-Jul-06	07:00:00	30-Jul-06	-30.3	07:00:00	30-Jul-06	-35.5	07:00:00	30-Jul-06	-22.2	07:00:00	30-Jul-06
-22	07:00:00	31-Jul-06	-30.2	07:00:00	31-Jul-06	07:00:00	31-Jul-06	-30.3	07:00:00	31-Jul-06	-35.5	07:00:00	31-Jul-06	-23.2	07:00:00	31-Jul-06

Prepared For:

Ecosystem Enhancement Program

Shepherds Tree Stream and Wetland Restoration
Year 2 of 5

Appendix C1. Data Tables for Hydrological Data

Date: January 2007
Project No.: 333

Jordan Jones & Boulding Incorporated

File name

Well 1			Well 2			Well 3			Well 4			Well 5			Well 6		
-22.1	07:00:00	01-Aug-06	-30.4	07:00:00	01-Aug-06		07:00:00	01-Aug-06	-30.3	07:00:00	01-Aug-06	-35.5	07:00:00	01-Aug-06	-24.1	07:00:00	01-Aug-06
-22.1	07:00:00	02-Aug-06	-30.2	07:00:00	02-Aug-06		07:00:00	02-Aug-06	-30.3	07:00:00	02-Aug-06	-35.5	07:00:00	02-Aug-06	-24.7	07:00:00	02-Aug-06
-22.1	07:00:00	03-Aug-06	-30	07:00:00	03-Aug-06		07:00:00	03-Aug-06	-30.4	07:00:00	03-Aug-06	-35.5	07:00:00	03-Aug-06	-25.1	07:00:00	03-Aug-06
-22	07:00:00	04-Aug-06	-30.4	07:00:00	04-Aug-06		07:00:00	04-Aug-06	-30.3	07:00:00	04-Aug-06	-35.5	07:00:00	04-Aug-06	-25.5	07:00:00	04-Aug-06
-21.6	07:00:00	05-Aug-06	-30	07:00:00	05-Aug-06		07:00:00	05-Aug-06	-30.1	07:00:00	05-Aug-06	-35.4	07:00:00	05-Aug-06	-24.7	07:00:00	05-Aug-06
-21.4	07:00:00	06-Aug-06	-30.2	07:00:00	06-Aug-06		07:00:00	06-Aug-06	-30.1	07:00:00	06-Aug-06	-35.4	07:00:00	06-Aug-06	-24.7	07:00:00	06-Aug-06
-21.6	07:00:00	07-Aug-06	-30	07:00:00	07-Aug-06		07:00:00	07-Aug-06	-30.3	07:00:00	07-Aug-06	-35.4	07:00:00	07-Aug-06	-24.5	07:00:00	07-Aug-06
-21.6	07:00:00	08-Aug-06	-30.2	07:00:00	08-Aug-06		07:00:00	08-Aug-06	-30.1	07:00:00	08-Aug-06	-35.4	07:00:00	08-Aug-06	-24.5	07:00:00	08-Aug-06
-21.6	07:00:00	09-Aug-06	-30.2	07:00:00	09-Aug-06		07:00:00	09-Aug-06	-30.3	07:00:00	09-Aug-06	-35.4	07:00:00	09-Aug-06	-24.5	07:00:00	09-Aug-06
-21.6	07:00:00	10-Aug-06	-30	07:00:00	10-Aug-06		07:00:00	10-Aug-06	-29.9	07:00:00	10-Aug-06	-35.4	07:00:00	10-Aug-06	1.3	07:00:00	10-Aug-06
-22	07:00:00	11-Aug-06	-30.4	07:00:00	11-Aug-06		07:00:00	11-Aug-06	-29.9	07:00:00	11-Aug-06	-35.4	07:00:00	11-Aug-06	0.6	07:00:00	11-Aug-06
-21.8	07:00:00	12-Aug-06	-30.5	07:00:00	12-Aug-06		07:00:00	12-Aug-06	-30.1	07:00:00	12-Aug-06	-35.4	07:00:00	12-Aug-06	1.7	07:00:00	12-Aug-06
-22.3	07:00:00	13-Aug-06	-13.3	07:00:00	13-Aug-06		07:00:00	13-Aug-06	-30.4	07:00:00	13-Aug-06	-35.4	07:00:00	13-Aug-06	0.6	07:00:00	13-Aug-06
-22.5	07:00:00	14-Aug-06	-13.5	07:00:00	14-Aug-06		07:00:00	14-Aug-06	-30.3	07:00:00	14-Aug-06	-35.4	07:00:00	14-Aug-06	0.4	07:00:00	14-Aug-06
-22.3	07:00:00	15-Aug-06	-12.7	07:00:00	15-Aug-06		07:00:00	15-Aug-06	-30.3	07:00:00	15-Aug-06	-35.4	07:00:00	15-Aug-06	0.8	07:00:00	15-Aug-06
-22.3	07:00:00	16-Aug-06	-12.7	07:00:00	16-Aug-06		07:00:00	16-Aug-06	-30.3	07:00:00	16-Aug-06	-35.5	07:00:00	16-Aug-06	0.8	07:00:00	16-Aug-06
-22.3	07:00:00	17-Aug-06	-13.1	07:00:00	17-Aug-06		07:00:00	17-Aug-06	-30.4	07:00:00	17-Aug-06	-35.4	07:00:00	17-Aug-06	0.4	07:00:00	17-Aug-06
-22.5	07:00:00	18-Aug-06	-13.5	07:00:00	18-Aug-06		07:00:00	18-Aug-06	-30.4	07:00:00	18-Aug-06	-35.4	07:00:00	18-Aug-06	0.2	07:00:00	18-Aug-06
-22.5	07:00:00	19-Aug-06	-12.5	07:00:00	19-Aug-06		07:00:00	19-Aug-06	-30.4	07:00:00	19-Aug-06	-35.4	07:00:00	19-Aug-06	0.6	07:00:00	19-Aug-06
-22.5	07:00:00	20-Aug-06	-12	07:00:00	20-Aug-06		07:00:00	20-Aug-06	-30.4	07:00:00	20-Aug-06	-35.4	07:00:00	20-Aug-06	1.1	07:00:00	20-Aug-06
-22.5	07:00:00	21-Aug-06	-11.8	07:00:00	21-Aug-06		07:00:00	21-Aug-06	-30.4	07:00:00	21-Aug-06	-35.4	07:00:00	21-Aug-06	1.1	07:00:00	21-Aug-06
-22.1	07:00:00	22-Aug-06	-12.9	07:00:00	22-Aug-06		07:00:00	22-Aug-06	-30.1	07:00:00	22-Aug-06	-35.2	07:00:00	22-Aug-06	2.1	07:00:00	22-Aug-06
-22.3	07:00:00	23-Aug-06	-13.3	07:00:00	23-Aug-06		07:00:00	23-Aug-06	-30.3	07:00:00	23-Aug-06	-35.4	07:00:00	23-Aug-06	1.3	07:00:00	23-Aug-06
-22.1	07:00:00	24-Aug-06	-13.1	07:00:00	24-Aug-06		07:00:00	24-Aug-06	-30.3	07:00:00	24-Aug-06	-35.4	07:00:00	24-Aug-06	1.3	07:00:00	24-Aug-06
-22.3	07:00:00	25-Aug-06	-12.1	07:00:00	25-Aug-06		07:00:00	25-Aug-06	-30.4	07:00:00	25-Aug-06	-35.4	07:00:00	25-Aug-06	1	07:00:00	25-Aug-06
-22.3	07:00:00	26-Aug-06	-13.1	07:00:00	26-Aug-06		07:00:00	26-Aug-06	-30.4	07:00:00	26-Aug-06	-35.4	07:00:00	26-Aug-06	0.8	07:00:00	26-Aug-06
-22.3	07:00:00	27-Aug-06	-13.7	07:00:00	27-Aug-06		07:00:00	27-Aug-06	-30.4	07:00:00	27-Aug-06	-35.4	07:00:00	27-Aug-06	0.6	07:00:00	27-Aug-06
-22.3	07:00:00	28-Aug-06	-15.2	07:00:00	28-Aug-06		07:00:00	28-Aug-06	-30.6	07:00:00	28-Aug-06	-35.4	07:00:00	28-Aug-06	0.4	07:00:00	28-Aug-06
-22.5	07:00:00	29-Aug-06	-16.7	07:00:00	29-Aug-06		07:00:00	29-Aug-06	-30.6	07:00:00	29-Aug-06	-35.5	07:00:00	29-Aug-06	0.4	07:00:00	29-Aug-06
-22.1	07:00:00	30-Aug-06	-20.5	07:00:00	30-Aug-06		07:00:00	30-Aug-06	-30.4	07:00:00	30-Aug-06	-35.5	07:00:00	30-Aug-06	0.6	07:00:00	30-Aug-06
-22	07:00:00	31-Aug-06	-23.9	07:00:00	31-Aug-06		07:00:00	31-Aug-06	-30.3	07:00:00	31-Aug-06	-35.2	07:00:00	31-Aug-06	2.1	07:00:00	31-Aug-06
-22.1	07:00:00	01-Sep-06	-25.8	07:00:00	01-Sep-06		07:00:00	01-Sep-06	-30.4	07:00:00	01-Sep-06	-35.4	07:00:00	01-Sep-06	1.7	07:00:00	01-Sep-06
-22.5	07:00:00	02-Sep-06	-26.8	07:00:00	02-Sep-06		07:00:00	02-Sep-06	-30.6	07:00:00	02-Sep-06	-35.4	07:00:00	02-Sep-06	1.1	07:00:00	02-Sep-06
-22.5	07:00:00	03-Sep-06	-13.1	07:00:00	03-Sep-06		07:00:00	03-Sep-06	-30.4	07:00:00	03-Sep-06	-35.4	07:00:00	03-Sep-06	1.5	07:00:00	03-Sep-06
-22.5	07:00:00	04-Sep-06	-14.4	07:00:00	04-Sep-06		07:00:00	04-Sep-06	-30.4	07:00:00	04-Sep-06	-35.5	07:00:00	04-Sep-06	1.3	07:00:00	04-Sep-06
-22.3	07:00:00	05-Sep-06	-15.9	07:00:00	05-Sep-06		07:00:00	05-Sep-06	-30.4	07:00:00	05-Sep-06	-35.4	07:00:00	05-Sep-06	1.7	07:00:00	05-Sep-06
-22.3	07:00:00	06-Sep-06	-17.6	07:00:00	06-Sep-06		07:00:00	06-Sep-06	-30.4	07:00:00	06-Sep-06	-35.4	07:00:00	06-Sep-06	1.7	07:00:00	06-Sep-06
-22.5	07:00:00	07-Sep-06	-20.5	07:00:00	07-Sep-06		07:00:00	07-Sep-06	-30.6	07:00:00	07-Sep-06	-35.5	07:00:00	07-Sep-06	1.1	07:00:00	07-Sep-06
-30.1	07:00:00	08-Sep-06	-24.1	07:00:00	08-Sep-06		07:00:00	08-Sep-06	-30.1	07:00:00	08-Sep-06	-35.5	07:00:00	08-Sep-06	1.3	07:00:00	08-Sep-06
-30.1	07:00:00	09-Sep-06	-25.6	07:00:00	09-Sep-06		07:00:00	09-Sep-06	-30.1	07:00:00	09-Sep-06	-35.5	07:00:00	09-Sep-06	1.1	07:00:00	09-Sep-06
-30.1	07:00:00	10-Sep-06	-27.9	07:00:00	10-Sep-06		07:00:00	10-Sep-06	-30.1	07:00:00	10-Sep-06	-35.4	07:00:00	10-Sep-06	1.1	07:00:00	10-Sep-06
-29.9	07:00:00	11-Sep-06	-28.1	07:00:00	11-Sep-06		07:00:00	11-Sep-06	-29.9	07:00:00	11-Sep-06	-35.4	07:00:00	11-Sep-06	1.3	07:00:00	11-Sep-06
-30.1	07:00:00	12-Sep-06	-29.4	07:00:00	12-Sep-06		07:00:00	12-Sep-06	-30.1	07:00:00	12-Sep-06	-35.5	07:00:00	12-Sep-06	1.3	07:00:00	12-Sep-06
-29.9	07:00:00	13-Sep-06	-29.6	07:00:00	13-Sep-06		07:00:00	13-Sep-06	-29.9	07:00:00	13-Sep-06	-33.9	07:00:00	13-Sep-06	2.1	07:00:00	13-Sep-06
1.3	07:00:00	14-Sep-06	-20.5	07:00:00	14-Sep-06		07:00:00	14-Sep-06	1.3	07:00:00	14-Sep-06	-35.2	07:00:00	14-Sep-06	2.9	07:00:00	14-Sep-06
-0.9	07:00:00	15-Sep-06	-24.1	07:00:00	15-Sep-06		07:00:00	15-Sep-06	-0.9	07:00:00	15-Sep-06	-35.4	07:00:00	15-Sep-06	1.5	07:00:00	15-Sep-06
-2.8	07:00:00	16-Sep-06	-25.6	07:00:00	16-Sep-06		07:00:00	16-Sep-06	-2.8	07:00:00	16-Sep-06	-35.4	07:00:00	16-Sep-06	1.1	07:00:00	16-Sep-06
-4.5	07:00:00	17-Sep-06	-24.7	07:00:00	17-Sep-06		07:00:00	17-Sep-06	-4.5	07:00:00	17-Sep-06	-35.4	07:00:00	17-Sep-06	1.1	07:00:00	17-Sep-06
-7.3	07:00:00	18-Sep-06	-24.8	07:00:00	18-Sep-06		07:00:00	18-Sep-06	-7.3	07:00:00	18-Sep-06	-35.4	07:00:00	18-Sep-06	1	07:00:00	18-Sep-06
-9.6	07:00:00	19-Sep-06	-25.4	07:00:00	19-Sep-06		07:00:00	19-Sep-06	-9.6	07:00:00	19-Sep-06	-35.5	07:00:00	19-Sep-06	1.7	07:00:00	19-Sep-06
-4.9	07:00:00	20-Sep-06	-26.4	07:00:00	20-Sep-06		07:00:00	20-Sep-06	-4.9	07:00:00	20-Sep-06	-35.5	07:00:00	20-Sep-06	1.1	07:00:00	20-Sep-06
-8.5	07:00:00	21-Sep-06	-24.7	07:00:00	21-Sep-06		07:00:00	21-Sep-06	-8.5	07:00:00	21-Sep-06	-35.5	07:00:00	21-Sep-06	0.6	07:00:00	21-Sep-06
-11.6	07:00:00	22-Sep-06	-24.8	07:00:00	22-Sep-06		07:00:00	22-Sep-06	-11.6	07:00:00	22-Sep-06	-35.5	07:00:00	22-Sep-06	1	07:00:00	22-Sep-06
-13	07:00:00	23-Sep-06	-25.4	07:00:00	23-Sep-06		07:00:00	23-Sep-06	-13	07:00:00	23-Sep-06	-35.5	07:00:00	23-Sep-06	1.7	07:00:00	23-Sep-06
-15.2	07:00:00	24-Sep-06	-26.4	07:00:00	24-Sep-06		07:00:00	24-Sep-06	-15.2	07:00:00	24-Sep-06	-35.5	07:00:00	24-Sep-06	1.5	07:00:00	24-Sep-06
-18	07:00:00	25-Sep-06	-26.4	07:00:00	25-Sep-06		07:00:00	25-Sep-06	-18	07:00:00	25-Sep-06	-35.5	07:00:00	25-Sep-06	1.7	07:00:00	25-Sep-06
-19.2	07:00:00	26-Sep-06	-26	07:00:00	26-Sep-06		07:00:00	26-Sep-06	-19.2	07:00:00	26-Sep-06	-35.5	07:00:00	26-Sep-06	1	07:00:00	26-Sep-06
-20.5	07:00:00	27-Sep-06	-26.3	07:00:00	27-Sep-06		07:00:00	27-Sep-06	-20.5	07:00:00	27-Sep-06	-35.7	07:00:00	27-Sep-06	0.8	07:00:00	27-Sep-06
-21.6	07:00:00	28-Sep-06	-27.1	07:00:00	28-Sep-06		07:00:00	28-Sep-06	-21.6	07:00:00	28-Sep-06	-35.7	07:00:00	28-Sep-06	0.8	07:00:00	28-Sep-06
-22.9	07:00:00	29-Sep-06	-26.9	07:00:00	29-Sep-06		07:00:00	29-Sep-06	-22.9	07:00:00	29-Sep-06	-35.7	07:00:00	29-Sep-06	0.8	07:00:00	29-Sep-06
-24.8	07:00:00	30-Sep-06	-27	07:00:00	30-Sep-06		07:00:00	30-Sep-06	-24.8	07:00:00	30-Sep-06	-35.7	07:00:00	30-Sep-06	0.2	07:00:00	30-Sep-06
-25	07:00:00	01-Oct-06	-27.4	07:00:00	1-Oct-06		07:00:00	1-Oct-06	-25	07:00:00	01-Oct-06	-35.5	07:00:00	01-Oct-06	0.4	07:00:00	01-Oct-06
-25.4	07:00:00	02-Oct-06	-27.9	07:00:00	2-Oct-06		07:00:00	2-Oct-06	-25.4	07:00:00	02-Oct-06	-35.5	07:00:00	02-Oct-06	0.2	07:00:00	02-Oct-06
-25.9	07:00:00	03-Oct-06	-28.2	07:00:00	3-Oct-06		07:00:00	3-Oct-06	-25.9	07:00:00	03-Oct-06	-35.7	07:00:00	03-Oct-06	0	07:00:00	03-Oct-06
-26.7	07:00:00	04-Oct-06	-26.9	07:00:00	4-Oct-06		07:00:00	4-Oct-06	-26.7	07:00:00	04-Oct-06	-35.7	07:00:00	04-Oct-06	-0.2	07:00:00	04-Oct-06
-26.7	07:00:00	05-Oct-06	-25.7	07:00:00	5-Oct-06		07:00:00	5-Oct-06	-26.7	07:00:00	05-Oct-06	-35.5	07:00:00	05-Oct-06	-1.2	07:00:00	05-Oct-06
-27.1	07:00:00	06-Oct-06	-24.3	07:00:00	6-Oct-06		07:00:00	6-Oct-06	-27.1	07:00:00	06-Oct-06	-35.7	07:00:00	06-Oct-06	0.8	07:00:00	06-Oct-06
-26.9	07:00:00	07-Oct-06	-24.7	07:00:00	7-Oct-06		07:00:00	7-Oct-06	-26.9	07:00:00	07-Oct-06	-35.7	07:00:00	07-Oct-06	-0.2	07:00:00	07-Oct-06
-26.7	07:00:00	08-Oct-06	-25.3	07:00:00	8-Oct-06		07:00:00	8-Oct-06	-26.7	07:00:00	08-Oct-06	-35.7	07:00:00	08-Oct-06	0.6	07:00:00	08-Oct-06
-26.9	07:00:00	09-Oct-06	-24.7	07:00:00	9-Oct-06		07:00:00	9-Oct-06	-26.9	07:00:00	09-Oct-06	-35.7	07:00:00	09-Oct-06	0.6	07:00:00	09-Oct-06
-26.9	07:00:00	10-Oct-06	-24.8	07:00:00	10-Oct-06		07:00:00	10-Oct-06	-26.9	07:00:00	10-Oct-06	-35.7	07:00:00	10-Oct-06	-0.2	07:00:00	10-Oct-06
-26.9	07:00:00	11-Oct-06	-24.8	07:00:00	11-Oct-06		07:00:00	11-Oct-06	-26.9	07:00:00	11-Oct-06	-35.7	07:00:00	11-Oct-06	-0.8	07:00:00	11-Oct-06
-27.1	07:00:00	12-Oct-06	-24.6	07:00:00	12-Oct-06		07:00:00	12-Oct-06	-27.1	07:00:00	12-Oct-06	-35.7	07:00:00	12-Oct-06	-0.8	07:00:00	12-Oct-06
-27.4	07:00:00	13-Oct-06	-27	07:00:00	13-Oct-06		07:00:00	13-Oct-06	-27.4	07:00:00	13-Oct-06	-35.7	07:00:00	13-Oct-06	-2.5	07:00:00	13-Oct-06
-27.8	07:00:00	14-Oct-06	-28.5	07:00:00	14-Oct-06		07:00:00	14-Oct-06	-27.8	07:00:00	14-Oct-06	-35.7	07:00:00	14-Oct-06	-4.6	07:00:00	14-Oct-06
-28	07:00:00	15-Oct-06	-29.6	07:00:00	15-Oct-06		07:00:00	15-Oct-06	-28	07:00:00	15-Oct-06	-35.7	07:00:00	15-Oct-06	-6.1	07:00:00	15-Oct-06
-28	07:00:00	16-Oct-06	-30.3	07:00:00	16-Oct-06		07:00:00	16-Oct-06	-28	07:00:00	16-Oct-06	-35.9	07:00:00	16-Oct-06	-7.5	07:00:00	16-Oct-06
-27.8	07:00:00	17-Oct-06	-30.5	07:00:00	17-Oct-06		07:00:00	17-Oct-06	-27.8	07:00:00	17-Oct-06	-29.9	07:00:00	17-Oct-06	0.8	07:00:00	17-Oct-06
0.2	07:00:00	18-Oct-06	-22.3	07:00:00	18-Oct-06		07:00:00	18-Oct-06	0.2	07:00:00	18-Oct-06	-35.7	07:00:00	18-Oct-06	1.9	07:00:00	18-Oct-06
-0.2	07:00:00	19-Oct-06	-23.8	07:00:00	19-Oct-06		07:00:00	19-Oct-06	-0.2	07:00:00	19-Oct-06	-35.7	07:00:00	19-Oct-06	0.8	07:00:00	19-Oct-06
0.4	07:00:00	20-Oct-06	-23.6	07:00:00	20-Oct-06		07:00:00	20-Oct-06	0.4	07:00:00	20-Oct-06	-35.9	07:00:00	20-Oct-06	1.3	07:00:00	20-Oct-06
-1.7	07:00:00	21-Oct-06	-24.2	07:00:00	21-Oct-06		07:00:00	21-Oct-06	-1.7	07:00:00	21-Oct-06	-35.7	07:00:00	21-Oct-06	0	07:00:00	21-Oct-06
-2.6	07:00:00	22-Oct-06	-24.4	07:00:00	22-Oct-06		07:00:00	22-Oct-06	-2.6	07:00:00	22-Oct-06	-35.7	07:00:00	22-Oct-06	-0.2	07:00:00	22-Oct-06
-2.1	07:00:00	23-Oct-06	-24.2	07:00:00	23-Oct-06		07:00:00	23-Oct-06	-2.1	07:00:00	23-Oct-06	-35.9	07:00:00	23-Oct-06	-0.4	07:00:00	23-Oct-06
-3.9	07:00:00	24-Oct-06	-29.2	07:00:00	24-Oct-06		07:00:00	24-Oct-06	-3.9	07:00:00	24-Oct-06	-35.9	07:00:00	24-Oct-06	-1.2	07:00:00	24-Oct-06
-4.9	07:00:00	25-Oct-06	-29.4	07:00:00	25-Oct-06	-41.5	07:00:00	25-Oct-06	-4.9	07:00:00	25-Oct-06	-35.9	07:00:00	25-Oct-06	-1.5	07:00:00	25-Oct-06
-5.8	07:00:00	26-Oct-06	-34.1	07:00:00	26-Oct-06	-41.5	07:00:00	26-Oct-06	-5.8	07:00:00	26-Oct-06	-35.9	07:00:00	26-Oct-06	-1.5	07:00:00	26-Oct-06
-6.4	07:00:00	27-Oct-06	-39.9	07:00:00	27-Oct-06	-41.4	07:00:00	27-Oct-06	-6.4	07:00:00	27-Oct-06	-35.7	07:00:00	27-Oct-06	-1.3	07:00:00	27-Oct-06
0.9	07:00:00	28-Oct-06	-36.8	07:00:00	28-Oct-06	-41.5	07:00:00	28-Oct-06	0.9	07:00:00	28-Oct-06	-35.9	07:00:00	28-Oct-06	2.9	07:00:00	28-Oct-06
-1.1	07:00:00	29-Oct-06	-38.8	07:00:00	29-Oct-06	-41.5	07:00:00	29-Oct-06	-1.1	07:00:00	29-Oct-06	-35.9	07:00:00	29-Oct-06	-0.2	07:00:00	29-Oct-06
-1.3	07:00:00	30-Oct-06	-39.6	07:00:00	30-Oct-06	-41.5	07:00:00	30-Oct-06	-1.3	07:00:00	30-Oct-06	-35.9	07:00:00	30-Oct-06	-0.4	07:00:00	30-Oct-06
-1.1	07:00:00	31-Oct-06	-40.1	07:00:00	31-Oct-06	-41.5	07:00:00	31-Oct-06	-1.1	07:00:00	31-Oct-06	-35.9	07:00:00	31-Oct-06	-0.4	07:00:00	31-Oct-06

Prepared For:

Ecosystem Enhancement Program

Shepherds Tree Stream and Wetland Restoration
Year 2 of 5

Appendix C1. Data Tables for Hydrological Data

Date: January 2007
Project No.: 333

Jordan Jones & Boulding INCORPORATED

File name

Well 1			Well 2			Well 3			Well 4			Well 5			Well 6		
-1.3	07:00:00	01-Nov-06	-40.1	07:00:00	1-Nov-06	-41.5	07:00:00	01-Nov-06	-1.3	07:00:00	01-Nov-06	-35.9	07:00:00	01-Nov-06	-0.6	07:00:00	01-Nov-06
-1.5	07:00:00	02-Nov-06	-41	07:00:00	2-Nov-06	-41.5	07:00:00	02-Nov-06	-1.5	07:00:00	02-Nov-06	-35.9	07:00:00	02-Nov-06	0	07:00:00	02-Nov-06
-3.8	07:00:00	03-Nov-06	-41.3	07:00:00	3-Nov-06	-41.5	07:00:00	03-Nov-06	-3.8	07:00:00	03-Nov-06	-35.9	07:00:00	03-Nov-06	-1.5	07:00:00	03-Nov-06
-4.5	07:00:00	04-Nov-06	-41.4	07:00:00	4-Nov-06	-41.5	07:00:00	04-Nov-06	-4.5	07:00:00	04-Nov-06	-36.1	07:00:00	04-Nov-06	-2.3	07:00:00	04-Nov-06
-5.1	07:00:00	05-Nov-06	-40.6	07:00:00	5-Nov-06	-41.5	07:00:00	05-Nov-06	-5.1	07:00:00	05-Nov-06	-35.9	07:00:00	05-Nov-06	-2.7	07:00:00	05-Nov-06
-5.3	07:00:00	06-Nov-06	-38.8	07:00:00	6-Nov-06	-41.5	07:00:00	06-Nov-06	-5.3	07:00:00	06-Nov-06	-36.1	07:00:00	06-Nov-06	-2.7	07:00:00	06-Nov-06
-3.6	07:00:00	07-Nov-06	-37.5	07:00:00	7-Nov-06	-41.5	07:00:00	07-Nov-06	-3.6	07:00:00	07-Nov-06	-35.9	07:00:00	07-Nov-06	-0.2	07:00:00	07-Nov-06
1.3	07:00:00	08-Nov-06	-32.1	07:00:00	8-Nov-06	-41.5	07:00:00	08-Nov-06	1.3	07:00:00	08-Nov-06	-35.5	07:00:00	08-Nov-06	2.9	07:00:00	08-Nov-06
0	07:00:00	09-Nov-06	-35.1	07:00:00	9-Nov-06	-41.5	07:00:00	09-Nov-06	0	07:00:00	09-Nov-06	-35.9	07:00:00	09-Nov-06	0.2	07:00:00	09-Nov-06
-0.6	07:00:00	10-Nov-06	-38.3	07:00:00	10-Nov-06	-41.5	07:00:00	10-Nov-06	-0.6	07:00:00	10-Nov-06	-35.9	07:00:00	10-Nov-06	0	07:00:00	10-Nov-06
-0.8	07:00:00	11-Nov-06	-37.8	07:00:00	11-Nov-06	-41.5	07:00:00	11-Nov-06	-0.8	07:00:00	11-Nov-06	-36.1	07:00:00	11-Nov-06	0	07:00:00	11-Nov-06
0.8	07:00:00	12-Nov-06	-33.3	07:00:00	12-Nov-06	-41.5	07:00:00	12-Nov-06	0.8	07:00:00	12-Nov-06	-35.5	07:00:00	12-Nov-06	2.9	07:00:00	12-Nov-06
-0.4	07:00:00	13-Nov-06	-34.4	07:00:00	13-Nov-06	-41.5	07:00:00	13-Nov-06	-0.4	07:00:00	13-Nov-06	-35.7	07:00:00	13-Nov-06	0	07:00:00	13-Nov-06
-0.6	07:00:00	14-Nov-06	-38.3	07:00:00	14-Nov-06	-4.9	07:00:00	14-Nov-06	-0.6	07:00:00	14-Nov-06	-35.7	07:00:00	14-Nov-06	-0.2	07:00:00	14-Nov-06
-0.6	07:00:00	15-Nov-06	-38.8	07:00:00	15-Nov-06	-4.5	07:00:00	15-Nov-06	-0.6	07:00:00	15-Nov-06	-35.9	07:00:00	15-Nov-06	0	07:00:00	15-Nov-06
3	07:00:00	16-Nov-06	-30	07:00:00	16-Nov-06	0.5	07:00:00	16-Nov-06	3	07:00:00	16-Nov-06	-34.1	07:00:00	16-Nov-06	2.9	07:00:00	16-Nov-06
0	07:00:00	17-Nov-06	-26	07:00:00	17-Nov-06	-2	07:00:00	17-Nov-06	0	07:00:00	17-Nov-06	-35.9	07:00:00	17-Nov-06	1.3	07:00:00	17-Nov-06
-0.6	07:00:00	18-Nov-06	-24.1	07:00:00	18-Nov-06	-1.9	07:00:00	18-Nov-06	-0.6	07:00:00	18-Nov-06	-36.1	07:00:00	18-Nov-06	0.4	07:00:00	18-Nov-06
-1.1	07:00:00	19-Nov-06	-25.6	07:00:00	19-Nov-06	-1.7	07:00:00	19-Nov-06	-1.1	07:00:00	19-Nov-06	-36.1	07:00:00	19-Nov-06	0	07:00:00	19-Nov-06
-0.9	07:00:00	20-Nov-06	-24.7	07:00:00	20-Nov-06	-1.7	07:00:00	20-Nov-06	-0.9	07:00:00	20-Nov-06	-36.1	07:00:00	20-Nov-06	0.2	07:00:00	20-Nov-06
-1.5	07:00:00	21-Nov-06	-24.8	07:00:00	21-Nov-06	-3.2	07:00:00	21-Nov-06	-1.5	07:00:00	21-Nov-06	-36.1	07:00:00	21-Nov-06	-0.2	07:00:00	21-Nov-06
1.5	07:00:00	22-Nov-06	-25.4	07:00:00	22-Nov-06	-3.4	07:00:00	22-Nov-06	1.5	07:00:00	22-Nov-06	-22.1	07:00:00	22-Nov-06	2.9	07:00:00	22-Nov-06
0.4	07:00:00	23-Nov-06	-26.4	07:00:00	23-Nov-06	-3	07:00:00	23-Nov-06	0.4	07:00:00	23-Nov-06	-35.7	07:00:00	23-Nov-06	2.1	07:00:00	23-Nov-06
-0.2	07:00:00	24-Nov-06	-24.7	07:00:00	24-Nov-06	-4.9	07:00:00	24-Nov-06	-0.2	07:00:00	24-Nov-06	-36.1	07:00:00	24-Nov-06	0.6	07:00:00	24-Nov-06
-0.9	07:00:00	25-Nov-06	-24.8	07:00:00	25-Nov-06	-5.8	07:00:00	25-Nov-06	-0.9	07:00:00	25-Nov-06	-36.1	07:00:00	25-Nov-06	0	07:00:00	25-Nov-06
-1.3	07:00:00	26-Nov-06	-25.4	07:00:00	26-Nov-06	-5.8	07:00:00	26-Nov-06	-1.3	07:00:00	26-Nov-06	-36.1	07:00:00	26-Nov-06	0	07:00:00	26-Nov-06
-1.5	07:00:00	27-Nov-06	-26.4	07:00:00	27-Nov-06	-4.9	07:00:00	27-Nov-06	-1.5	07:00:00	27-Nov-06	-36.3	07:00:00	27-Nov-06	0	07:00:00	27-Nov-06
-1.1	07:00:00	28-Nov-06	-26.4	07:00:00	28-Nov-06	-5.1	07:00:00	28-Nov-06	-1.1	07:00:00	28-Nov-06	-36.3	07:00:00	28-Nov-06	0	07:00:00	28-Nov-06
-0.2	07:00:00	29-Nov-06	-26	07:00:00	29-Nov-06	-4.3	07:00:00	29-Nov-06	-0.2	07:00:00	29-Nov-06	-36.3	07:00:00	29-Nov-06	0.4	07:00:00	29-Nov-06
-0.6	07:00:00	30-Nov-06	-26.3	07:00:00	30-Nov-06	-4.3	07:00:00	30-Nov-06	-0.6	07:00:00	30-Nov-06	-36.3	07:00:00	30-Nov-06	1	07:00:00	30-Nov-06
-0.6	07:00:00	01-Dec-06	-27.1	07:00:00	01-Dec-06	-3.8	07:00:00	01-Dec-06	-0.6	07:00:00	01-Dec-06	-36.3	07:00:00	01-Dec-06	1.3	07:00:00	01-Dec-06
-1.9	07:00:00	02-Dec-06	-26.9	07:00:00	02-Dec-06	-4.7	07:00:00	02-Dec-06	-1.9	07:00:00	02-Dec-06	-36.1	07:00:00	02-Dec-06	-0.2	07:00:00	02-Dec-06
-1.7	07:00:00	03-Dec-06	-27	07:00:00	03-Dec-06	-3.9	07:00:00	03-Dec-06	-1.7	07:00:00	03-Dec-06	-36.3	07:00:00	03-Dec-06	0	07:00:00	03-Dec-06
-1.7	07:00:00	04-Dec-06	-27.4	07:00:00	04-Dec-06	-4.9	07:00:00	04-Dec-06	-1.7	07:00:00	04-Dec-06	-36.3	07:00:00	04-Dec-06	-0.4	07:00:00	04-Dec-06
-3.2	07:00:00	05-Dec-06	-27.9	07:00:00	05-Dec-06	-5.8	07:00:00	05-Dec-06	-3.2	07:00:00	05-Dec-06	-36.3	07:00:00	05-Dec-06	-0.8	07:00:00	05-Dec-06
-3.4	07:00:00	06-Dec-06	-28.2	07:00:00	06-Dec-06	-6.4	07:00:00	06-Dec-06	-3.4	07:00:00	06-Dec-06	-36.3	07:00:00	06-Dec-06	-0.8	07:00:00	06-Dec-06
-3	07:00:00	07-Dec-06	-26.9	07:00:00	07-Dec-06	0.9	07:00:00	07-Dec-06	-3	07:00:00	07-Dec-06	-36.3	07:00:00	07-Dec-06	-0.6	07:00:00	07-Dec-06
-4.9	07:00:00	08-Dec-06	-25.7	07:00:00	08-Dec-06	-1.1	07:00:00	08-Dec-06	-4.9	07:00:00	08-Dec-06	-36.3	07:00:00	08-Dec-06	-1.9	07:00:00	08-Dec-06
-5.8	07:00:00	09-Dec-06	-24.3	07:00:00	09-Dec-06	-1.3	07:00:00	09-Dec-06	-5.8	07:00:00	09-Dec-06	-36.5	07:00:00	09-Dec-06	-3.1	07:00:00	09-Dec-06
-5.8	07:00:00	10-Dec-06	-24.7	07:00:00	10-Dec-06	-1.1	07:00:00	10-Dec-06	-5.8	07:00:00	10-Dec-06	-36.3	07:00:00	10-Dec-06	-3.1	07:00:00	10-Dec-06
-4.9	07:00:00	11-Dec-06	-25.3	07:00:00	11-Dec-06	-1.3	07:00:00	11-Dec-06	-4.9	07:00:00	11-Dec-06	-36.3	07:00:00	11-Dec-06	-1.9	07:00:00	11-Dec-06
-5.1	07:00:00	12-Dec-06	-24.7	07:00:00	12-Dec-06	-1.5	07:00:00	12-Dec-06	-5.1	07:00:00	12-Dec-06	-36.3	07:00:00	12-Dec-06	-2.1	07:00:00	12-Dec-06
-4.3	07:00:00	13-Dec-06	-24.8	07:00:00	13-Dec-06	-3.8	07:00:00	13-Dec-06	-4.3	07:00:00	13-Dec-06	-36.3	07:00:00	13-Dec-06	-1.3	07:00:00	13-Dec-06
-4.3	07:00:00	14-Dec-06	-24.8	07:00:00	14-Dec-06	-4.5	07:00:00	14-Dec-06	-4.3	07:00:00	14-Dec-06	-36.3	07:00:00	14-Dec-06	-1.2	07:00:00	14-Dec-06
-3.8	07:00:00	15-Dec-06	-24.6	07:00:00	15-Dec-06	-5.1	07:00:00	15-Dec-06	-3.8	07:00:00	15-Dec-06	-36.5	07:00:00	15-Dec-06	-0.8	07:00:00	15-Dec-06
-4.7	07:00:00	16-Dec-06	-22.8	07:00:00	16-Dec-06	-5.3	07:00:00	16-Dec-06	-4.7	07:00:00	16-Dec-06	-36.5	07:00:00	16-Dec-06	-1.5	07:00:00	16-Dec-06
-5.3	07:00:00	17-Dec-06	-22.7	07:00:00	17-Dec-06	-3.6	07:00:00	17-Dec-06	-5.3	07:00:00	17-Dec-06	-36.3	07:00:00	17-Dec-06	-1.5	07:00:00	17-Dec-06
-5.3	07:00:00	18-Dec-06	-23.2	07:00:00	18-Dec-06	1.3	07:00:00	18-Dec-06	-5.3	07:00:00	18-Dec-06	-36.3	07:00:00	18-Dec-06	-1.5	07:00:00	18-Dec-06
-5.8	07:00:00	19-Dec-06	-23.6	07:00:00	19-Dec-06	-0.6	07:00:00	19-Dec-06	-5.8	07:00:00	19-Dec-06	-36.3	07:00:00	19-Dec-06	-1.5	07:00:00	19-Dec-06

Serial # - 0504410 / Well 7		
-7.3	07:00:00	01-Mar-06
-7.5	07:00:00	02-Mar-06
-9.6	07:00:00	03-Mar-06
-12.6	07:00:00	04-Mar-06
-14.4	07:00:00	05-Mar-06
-10.5	07:00:00	06-Mar-06
-6.7	07:00:00	07-Mar-06
-9.8	07:00:00	08-Mar-06
-10.7	07:00:00	09-Mar-06
-11.5	07:00:00	10-Mar-06
-13.4	07:00:00	11-Mar-06
-5.7	07:00:00	12-Mar-06
-6.7	07:00:00	13-Mar-06
-8	07:00:00	14-Mar-06
-12.8	07:00:00	15-Mar-06
-15.3	07:00:00	16-Mar-06
-16.5	07:00:00	17-Mar-06
-19	07:00:00	18-Mar-06
-21.1	07:00:00	19-Mar-06
-23	07:00:00	20-Mar-06
-3.8	07:00:00	21-Mar-06
-4.8	07:00:00	22-Mar-06
-5.6	07:00:00	23-Mar-06
-5.4	07:00:00	24-Mar-06
-5.4	07:00:00	25-Mar-06
-6.1	07:00:00	26-Mar-06
-6.5	07:00:00	27-Mar-06
-6.1	07:00:00	28-Mar-06
-6.5	07:00:00	29-Mar-06
-7.1	07:00:00	30-Mar-06
-7.7	07:00:00	31-Mar-06
-8.4	07:00:00	01-Apr-06
-11.5	07:00:00	02-Apr-06
-4.8	07:00:00	03-Apr-06
-7.5	07:00:00	04-Apr-06
-10	07:00:00	05-Apr-06
-13.6	07:00:00	06-Apr-06
-15.1	07:00:00	07-Apr-06
-10	07:00:00	08-Apr-06
-12.1	07:00:00	09-Apr-06
-15.7	07:00:00	10-Apr-06
-18.6	07:00:00	11-Apr-06
-22.6	07:00:00	12-Apr-06
-24	07:00:00	13-Apr-06
-24.9	07:00:00	14-Apr-06
-25.9	07:00:00	15-Apr-06
-26.8	07:00:00	16-Apr-06
-27.8	07:00:00	17-Apr-06
-28.9	07:00:00	18-Apr-06
-29.1	07:00:00	19-Apr-06
-13.2	07:00:00	20-Apr-06
-16.9	07:00:00	21-Apr-06
-2.9	07:00:00	22-Apr-06
-4	07:00:00	23-Apr-06
-4	07:00:00	24-Apr-06
-4.2	07:00:00	25-Apr-06
-3.1	07:00:00	26-Apr-06
-2.3	07:00:00	27-Apr-06
-3.6	07:00:00	28-Apr-06
-3.8	07:00:00	29-Apr-06
-4	07:00:00	30-Apr-06
-4.6	07:00:00	01-May-06
-5.2	07:00:00	02-May-06
-5	07:00:00	03-May-06
-6.5	07:00:00	04-May-06
-9	07:00:00	05-May-06
-10	07:00:00	06-May-06
-9.6	07:00:00	07-May-06
-4.8	07:00:00	08-May-06
-4.8	07:00:00	09-May-06
-4.8	07:00:00	10-May-06
-5	07:00:00	11-May-06
-7.5	07:00:00	12-May-06
-11.9	07:00:00	13-May-06
-15.9	07:00:00	14-May-06
-18.4	07:00:00	15-May-06
-22.6	07:00:00	16-May-06
-24.9	07:00:00	17-May-06
-26.6	07:00:00	18-May-06
-28.2	07:00:00	19-May-06
-29.3	07:00:00	20-May-06
-10.2	07:00:00	21-May-06
-16.5	07:00:00	22-May-06
-20.9	07:00:00	23-May-06
-25.7	07:00:00	24-May-06
-26.6	07:00:00	25-May-06
-28.2	07:00:00	26-May-06
-29.3	07:00:00	27-May-06
-31.2	07:00:00	28-May-06
-32	07:00:00	29-May-06
-33.3	07:00:00	30-May-06
-33.3	07:00:00	31-May-06

Serial # - 04F59E5 / Well 8		
1.5	07:00:00	01-Mar-06
1.5	07:00:00	02-Mar-06
0.6	07:00:00	03-Mar-06
-0.8	07:00:00	04-Mar-06
-1.3	07:00:00	05-Mar-06
1.1	07:00:00	06-Mar-06
1.9	07:00:00	07-Mar-06
1.5	07:00:00	08-Mar-06
1.7	07:00:00	09-Mar-06
2.6	07:00:00	10-Mar-06
1.3	07:00:00	11-Mar-06
2.5	07:00:00	12-Mar-06
3	07:00:00	13-Mar-06
2.6	07:00:00	14-Mar-06
1.1	07:00:00	15-Mar-06
0.2	07:00:00	16-Mar-06
-0.2	07:00:00	17-Mar-06
-1.1	07:00:00	18-Mar-06
-1.7	07:00:00	19-Mar-06
-1.7	07:00:00	20-Mar-06
3.2	07:00:00	21-Mar-06
2.5	07:00:00	22-Mar-06
2.1	07:00:00	23-Mar-06
2.5	07:00:00	24-Mar-06
2.3	07:00:00	25-Mar-06
1.7	07:00:00	26-Mar-06
1.5	07:00:00	27-Mar-06
1.7	07:00:00	28-Mar-06
1.1	07:00:00	29-Mar-06
0.4	07:00:00	30-Mar-06
0	07:00:00	31-Mar-06
0.4	07:00:00	01-Apr-06
-0.9	07:00:00	02-Apr-06
2.1	07:00:00	03-Apr-06
1.9	07:00:00	04-Apr-06
1.7	07:00:00	05-Apr-06
0.2	07:00:00	06-Apr-06
-0.2	07:00:00	07-Apr-06
2.1	07:00:00	08-Apr-06
1.5	07:00:00	09-Apr-06
0.9	07:00:00	10-Apr-06
-0.6	07:00:00	11-Apr-06
-1.3	07:00:00	12-Apr-06
-1.7	07:00:00	13-Apr-06
-2.1	07:00:00	14-Apr-06
-2.8	07:00:00	15-Apr-06
-3.6	07:00:00	16-Apr-06
-4.9	07:00:00	17-Apr-06
-5.7	07:00:00	18-Apr-06
-6.4	07:00:00	19-Apr-06
2.6	07:00:00	20-Apr-06
2.6	07:00:00	21-Apr-06
3.6	07:00:00	22-Apr-06
3.4	07:00:00	23-Apr-06
3.2	07:00:00	24-Apr-06
3	07:00:00	25-Apr-06
3.6	07:00:00	26-Apr-06
3.6	07:00:00	27-Apr-06
3.4	07:00:00	28-Apr-06
3	07:00:00	29-Apr-06
2.6	07:00:00	30-Apr-06
1.3	07:00:00	01-May-06
-0.9	07:00:00	02-May-06
-1.5	07:00:00	03-May-06
-2.8	07:00:00	04-May-06
-3.6	07:00:00	05-May-06
-3.4	07:00:00	06-May-06
-1.9	07:00:00	07-May-06
3.2	07:00:00	08-May-06
3	07:00:00	09-May-06
3.2	07:00:00	10-May-06
3.4	07:00:00	11-May-06
0.9	07:00:00	12-May-06
-1.5	07:00:00	13-May-06
-2.6	07:00:00	14-May-06
-3.6	07:00:00	15-May-06
-5.1	07:00:00	16-May-06
-5.5	07:00:00	17-May-06
-6.8	07:00:00	18-May-06
-6.8	07:00:00	19-May-06
-4.5	07:00:00	20-May-06
2.3	07:00:00	21-May-06
-1.3	07:00:00	22-May-06
-2.6	07:00:00	23-May-06
-4.9	07:00:00	24-May-06
-5.9	07:00:00	25-May-06
-7.7	07:00:00	26-May-06
-5.5	07:00:00	27-May-06
-8.7	07:00:00	28-May-06
-10.2	07:00:00	29-May-06
-11.7	07:00:00	30-May-06
-13.6	07:00:00	31-May-06

Serial # - 04941E6 / Well 10		
2.8	07:00:00	01-Mar-06
2.8	07:00:00	02-Mar-06
2.3	07:00:00	03-Mar-06
0.9	07:00:00	04-Mar-06
0.8	07:00:00	05-Mar-06
2.3	07:00:00	06-Mar-06
2.8	07:00:00	07-Mar-06
2.6	07:00:00	08-Mar-06
2.6	07:00:00	09-Mar-06
2.8	07:00:00	10-Mar-06
1.9	07:00:00	11-Mar-06
2.8	07:00:00	12-Mar-06
2.8	07:00:00	13-Mar-06
2.6	07:00:00	14-Mar-06
0.9	07:00:00	15-Mar-06
0.8	07:00:00	16-Mar-06
0.9	07:00:00	17-Mar-06
0.2	07:00:00	18-Mar-06
0	07:00:00	19-Mar-06
-0.4	07:00:00	20-Mar-06
2.6	07:00:00	21-Mar-06
2.6	07:00:00	22-Mar-06
2.8	07:00:00	23-Mar-06
2.4	07:00:00	24-Mar-06
1.7	07:00:00	25-Mar-06
0.8	07:00:00	26-Mar-06
0.2	07:00:00	27-Mar-06
0.2	07:00:00	28-Mar-06
0.2	07:00:00	29-Mar-06
-0.2	07:00:00	30-Mar-06
0.2	07:00:00	31-Mar-06
0.4	07:00:00	01-Apr-06
-0.2	07:00:00	02-Apr-06
1.7	07:00:00	03-Apr-06
1.3	07:00:00	04-Apr-06
0	07:00:00	05-Apr-06
-0.8	07:00:00	06-Apr-06
-0.2	07:00:00	07-Apr-06
0	07:00:00	08-Apr-06
-0.2	07:00:00	09-Apr-06
-1.1	07:00:00	10-Apr-06
-1.1	07:00:00	11-Apr-06
-0.9	07:00:00	12-Apr-06
-0.9	07:00:00	13-Apr-06
-0.8	07:00:00	14-Apr-06
-0.6	07:00:00	15-Apr-06
-0.6	07:00:00	16-Apr-06
-0.9	07:00:00	17-Apr-06
-1.5	07:00:00	18-Apr-06
-1.3	07:00:00	19-Apr-06
2.4	07:00:00	20-Apr-06
2.1	07:00:00	21-Apr-06
2.8	07:00:00	22-Apr-06
2.8	07:00:00	23-Apr-06
2.8	07:00:00	24-Apr-06
2.8	07:00:00	25-Apr-06
2.8	07:00:00	26-Apr-06
2.8	07:00:00	27-Apr-06
2.8	07:00:00	28-Apr-06
2.8	07:00:00	29-Apr-06
2.8	07:00:00	30-Apr-06
2.1	07:00:00	01-May-06
1.1	07:00:00	02-May-06
1.1	07:00:00	03-May-06
0.4	07:00:00	04-May-06
0.4	07:00:00	05-May-06
1.1	07:00:00	06-May-06
0.9	07:00:00	07-May-06
2.8	07:00:00	08-May-06
2.8	07:00:00	09-May-06
2.1	07:00:00	10-May-06
1.9	07:00:00	11-May-06
-0.2	07:00:00	12-May-06
-1.1	07:00:00	13-May-06
-1.3	07:00:00	14-May-06
-1.5	07:00:00	15-May-06
-2.3	07:00:00	16-May-06
-2.6	07:00:00	17-May-06
-2.6	07:00:00	18-May-06
-2.6	07:00:00	19-May-06
-2.1	07:00:00	20-May-06
0.8	07:00:00	21-May-06
-1.7	07:00:00	22-May-06
-2.3	07:00:00	23-May-06
-2.4	07:00:00	24-May-06
-1.9	07:00:00	25-May-06
-1.9	07:00:00	26-May-06
-1.7	07:00:00	27-May-06
-2.3	07:00:00	28-May-06
-2.4	07:00:00	29-May-06
-3	07:00:00	30-May-06
-3.6	07:00:00	31-May-06

Serial # - 04F5A5F / Well 11		
3	07:00:00	01-Mar-06
3	07:00:00	02-Mar-06
3	07:00:00	03-Mar-06
3	07:00:00	04-Mar-06
3	07:00:00	05-Mar-06
3	07:00:00	06-Mar-06
3	07:00:00	07-Mar-06
3	07:00:00	08-Mar-06
3	07:00:00	09-Mar-06
3	07:00:00	10-Mar-06
3	07:00:00	11-Mar-06
3	07:00:00	12-Mar-06
3	07:00:00	13-Mar-06
3	07:00:00	14-Mar-06
3	07:00:00	15-Mar-06
3	07:00:00	16-Mar-06
3	07:00:00	17-Mar-06
3	07:00:00	18-Mar-06
3	07:00:00	19-Mar-06
3	07:00:00	20-Mar-06
3	07:00:00	21-Mar-06
3	07:00:00	22-Mar-06
3	07:00:00	23-Mar-06
3	07:00:00	24-Mar-06
3	07:00:00	25-Mar-06
3	07:00:00	26-Mar-06
3	07:00:00	27-Mar-06
3	07:00:00	28-Mar-06
3	07:00:00	29-Mar-06
3	07:00:00	30-Mar-06
3	07:00:00	31-Mar-06
3	07:00:00	01-Apr-06
3	07:00:00	02-Apr-06
3	07:00:00	03-Apr-06
3	07:00:00	04-Apr-06
3	07:00:00	05-Apr-06
3	07:00:00	06-Apr-06
3	07:00:00	07-Apr-06
3	07:00:00	08-Apr-06
3	07:00:00	09-Apr-06
3	07:00:00	10-Apr-06
3	07:00:00	11-Apr-06
3	07:00:00	12-Apr-06
3	07:00:00	13-Apr-06
3	07:00:00	14-Apr-06
3	07:00:00	15-Apr-06
3	07:00:00	16-Apr-06
3	07:00:00	17-Apr-06
3	07:00:00	18-Apr-06
3	07:00:00	19-Apr-06
3	07:00:00	20-Apr-06
3	07:00:00	21-Apr-06
3	07:00:00	22-Apr-06
3	07:00:00	23-Apr-06
3	07:00:00	24-Apr-06
3	07:00:00	25-Apr-06
3	07:00:00	26-Apr-06
3	07:00:00	27-Apr-06
3	07:00:00	28-Apr-06
3	07:00:00	29-Apr-06
3	07:00:00	30-Apr-06
3	07:00:00	01-May-06
3	07:00:00	02-May-06
3	07:00:00	03-May-06
3	07:00:00	04-May-06
3	07:00:00	05-May-06
3	07:00:00	06-May-06
3	07:00:00	07-May-06
3	07:00:00	08-May-06
3	07:00:00	09-May-06
3	07:00:00	10-May-06
3	07:00:00	11-May-06
3	07:00:00	12-May-06
3	07:00:00	13-May-06
3	07:00:00	14-May-06
3	07:00:00	15-May-06
3	07:00:00	16-May-06
3	07:00:00	17-May-06
3	07:00:00	18-May-06
3	07:00:00	19-May-06
3	07:00:00	20-May-06
3	07:00:00	21-May-06
3	07:00:00	22-May-06
3	07:00:00	23-May-06
3	07:00:00	24-May-06
3	07:00:00	25-May-06
3	07:00:00	26-May-06
3	07:00:00	27-May-06
3	07:00:00	28-May-06
3	07:00:00	29-May-06
3	07:00:00	30-May-06
3	07:00:00	31-May-06

Serial # - 055F396 / Well 12		
-3.3	07:00:00	01-Mar-06
-3.1	07:00:00	02-Mar-06
-3.3	07:00:00	03-Mar-06
-3.7	07:00:00	04-Mar-06
-3.9	07:00:00	05-Mar-06
-2.7	07:00:00	06-Mar-06
-3.5	07:00:00	07-Mar-06
-4	07:00:00	08-Mar-06
-3.9	07:00:00	09-Mar-06
-3.7	07:00:00	10-Mar-06
-3.7	07:00:00	11-Mar-06
-3.3	07:00:00	12-Mar-06
-3.3	07:00:00	13-Mar-06
-3.7	07:00:00	14-Mar-06
-4	07:00:00	15-Mar-06
-3.9	07:00:00	16-Mar-06
-3.9	07:00:00	17-Mar-06
-3.9	07:00:00	18-Mar-06
-4	07:00:00	19-Mar-06
-4	07:00:00	20-Mar-06
-2.5	07:00:00	21-Mar-06
-3.5	07:00:00	22-Mar-06
-3.5	07:00:00	23-Mar-06
-3.3	07:00:00	24-Mar-06
-3.3	07:00:00	25-Mar-06
-3.7	07:00:00	26-Mar-06
-3.7	07:00:00	27-Mar-06
-3.5	07:00:00	28-Mar-06
-3.3	07:00:00	29-Mar-06
-3.5	07:00:00	30-Mar-06
-3.5	07:00:00	31-Mar-06
-3.1	07:00:00	01-Apr-06
-3.1	07:00:00	02-Apr-06
-2.9	07:00:00	03-Apr-06
-3.5	07:00:00	04-Apr-06
-3.5	07:00:00	05-Apr-06
-3.5	07:00:00	06-Apr-06
-3.3	07:00:00	07-Apr-06
-2.3	07:00:00	08-Apr-06
-3.5	07:00:00	09-Apr-06
-3.5	07:00:00	10-Apr-06
-3.5	07:00:00	11-Apr-06
-3.3	07:00:00	12-Apr-06
-3.5	07:00:00	13-Apr-06
-3.3	07:00:00	14-Apr-06
-3.5	07:00:00	15-Apr-06
-3.3	07:00:00	16-Apr-06
-3.3	07:00:00	17-Apr-06
-3.5	07:00:00	18-Apr-06
-3.5	07:00:00	19-Apr-06
-2.9	07:00:00	20-Apr-06
-3.3	07:00:00	21-Apr-06
-2.1	07:00:00	22-Apr-06
-2.7	07:00:00	23-Apr-06
-2.7	07:00:00	24-Apr-06
-2.9	07:00:00	25-Apr-06
-1.3	07:00:00	26-Apr-06
-1.5	07:00:00	27-Apr-06
-2.1	07:00:00	28-Apr-06
-2.7	07:00:00	29-Apr-06
-2.9	07:00:00	30-Apr-06
-3.3	07:00:00	01-May-06
-3.5	07:00:00	02-May-06
-3.7	07:00:00	03-May-06
-4.2	07:00:00	04-May-06
-3.9	07:00:00	05-May-06
-3.7	07:00:00	06-May-06
-3.3	07:00:00	07-May-06
-3.3	07:00:00	08-May-06
-3.9	07:00:00	09-May-06
-4.2	07:00:00	10-May-06
-3.9	07:00:00	11-May-06
-4.6	07:00:00	12-May-06
-4.2	07:00:00	13-May-06
-4.4	07:00:00	14-May-06
-4.6	07:00:00	15-May-06
-3.7	07:00:00	16-May-06
-3.5	07:00:00	17-May-06
-3.7	07:00:00	18-May-06
-4.2	07:00:00	19-May-06
-3.1	07:00:00	20-May-06
-2.7	07:00:00	21-May-06
-3.3	07:00:00	22-May-06
-3.5	07:00:00	23-May-06
-3.5	07:00:00	24-May-06
-3.3	07:00:00	25-May-06
-3.9	07:00:00	26-May-06
-3.3	07:00:00	27-May-06
-3.9	07:00:00	28-May-06
-3.9	07:00:00	29-May-06
-3.9	07:00:00	30-May-06
-4	07:00:00	31-May-06

Prepared For:

Ecosystem Enhancement Program

Shepherds Tree Stream and Wetland Restoration
Year 2 of 5

Appendix C1. Data Tables for Hydrological Data

Date: January 2007
Project No.: 333

Jordan Jones & Boulding Incorporated

File name

Well 7			Well 8			Well 10			Well 11			Well 12		
-33.5	07:00:00	01-Jun-06	-15.1	07:00:00	01-Jun-06	-3.9	07:00:00	01-Jun-06	3	07:00:00	01-Jun-06	-4	07:00:00	01-Jun-06
-35.1	07:00:00	02-Jun-06	-15.7	07:00:00	02-Jun-06	-3.6	07:00:00	02-Jun-06	3	07:00:00	02-Jun-06	-4	07:00:00	02-Jun-06
-3.6	07:00:00	03-Jun-06	3.6	07:00:00	03-Jun-06	2.8	07:00:00	03-Jun-06	3	07:00:00	03-Jun-06	0	07:00:00	03-Jun-06
-5	07:00:00	04-Jun-06	3.2	07:00:00	04-Jun-06	2.8	07:00:00	04-Jun-06	3	07:00:00	04-Jun-06	-2.7	07:00:00	04-Jun-06
-6.3	07:00:00	05-Jun-06	0.8	07:00:00	05-Jun-06	0.6	07:00:00	05-Jun-06	3	07:00:00	05-Jun-06	-3.3	07:00:00	05-Jun-06
-10	07:00:00	06-Jun-06	-1.7	07:00:00	06-Jun-06	-0.8	07:00:00	06-Jun-06	3	07:00:00	06-Jun-06	-4	07:00:00	06-Jun-06
-14	07:00:00	07-Jun-06	-4.9	07:00:00	07-Jun-06	-1.9	07:00:00	07-Jun-06	3	07:00:00	07-Jun-06	-3.9	07:00:00	07-Jun-06
-19.2	07:00:00	08-Jun-06	-7	07:00:00	08-Jun-06	-2.6	07:00:00	08-Jun-06	3	07:00:00	08-Jun-06	-3.7	07:00:00	08-Jun-06
-25.1	07:00:00	09-Jun-06	-8.1	07:00:00	09-Jun-06	-3.8	07:00:00	09-Jun-06	3	07:00:00	09-Jun-06	-3.1	07:00:00	09-Jun-06
-27.2	07:00:00	10-Jun-06	-9.8	07:00:00	10-Jun-06	-4.7	07:00:00	10-Jun-06	3	07:00:00	10-Jun-06	-3.3	07:00:00	10-Jun-06
-29.9	07:00:00	11-Jun-06	-11.5	07:00:00	11-Jun-06	-7.5	07:00:00	11-Jun-06	3	07:00:00	11-Jun-06	-3.3	07:00:00	11-Jun-06
-8	07:00:00	12-Jun-06	-0.8	07:00:00	12-Jun-06	-2.6	07:00:00	12-Jun-06	3	07:00:00	12-Jun-06	-1.9	07:00:00	12-Jun-06
-3.6	07:00:00	13-Jun-06	3.6	07:00:00	13-Jun-06	2.8	07:00:00	13-Jun-06	3	07:00:00	13-Jun-06	-0.4	07:00:00	13-Jun-06
-1.9	07:00:00	14-Jun-06	3.6	07:00:00	14-Jun-06	2.8	07:00:00	14-Jun-06	3	07:00:00	14-Jun-06	-1.2	07:00:00	14-Jun-06
-3.4	07:00:00	15-Jun-06	3.6	07:00:00	15-Jun-06	0.9	07:00:00	15-Jun-06	3	07:00:00	15-Jun-06	-1.9	07:00:00	15-Jun-06
-4.2	07:00:00	16-Jun-06	3.6	07:00:00	16-Jun-06	-1.9	07:00:00	16-Jun-06	3	07:00:00	16-Jun-06	-2.3	07:00:00	16-Jun-06
-4.4	07:00:00	17-Jun-06	-0.9	07:00:00	17-Jun-06	-2.6	07:00:00	17-Jun-06	3	07:00:00	17-Jun-06	-2.5	07:00:00	17-Jun-06
-6.1	07:00:00	18-Jun-06	-4.2	07:00:00	18-Jun-06	-3.4	07:00:00	18-Jun-06	3	07:00:00	18-Jun-06	-2.9	07:00:00	18-Jun-06
-10.7	07:00:00	19-Jun-06	-6.4	07:00:00	19-Jun-06	-3.6	07:00:00	19-Jun-06	3	07:00:00	19-Jun-06	-3.7	07:00:00	19-Jun-06
-15.7	07:00:00	20-Jun-06	-7.9	07:00:00	20-Jun-06	-4.3	07:00:00	20-Jun-06	3	07:00:00	20-Jun-06	-2.9	07:00:00	20-Jun-06
-23.2	07:00:00	21-Jun-06	-10	07:00:00	21-Jun-06	-7	07:00:00	21-Jun-06	3	07:00:00	21-Jun-06	-2.7	07:00:00	21-Jun-06
-27.6	07:00:00	22-Jun-06	-11.7	07:00:00	22-Jun-06	-9.2	07:00:00	22-Jun-06	3	07:00:00	22-Jun-06	-3.1	07:00:00	22-Jun-06
-28.9	07:00:00	23-Jun-06	-13.4	07:00:00	23-Jun-06	-10	07:00:00	23-Jun-06	3	07:00:00	23-Jun-06	-2.9	07:00:00	23-Jun-06
-3.1	07:00:00	24-Jun-06	3.6	07:00:00	24-Jun-06	2.8	07:00:00	24-Jun-06	3	07:00:00	24-Jun-06	0.2	07:00:00	24-Jun-06
-3.1	07:00:00	25-Jun-06	3.6	07:00:00	25-Jun-06	2.8	07:00:00	25-Jun-06	3	07:00:00	25-Jun-06	-1.3	07:00:00	25-Jun-06
-1.7	07:00:00	26-Jun-06	3.6	07:00:00	26-Jun-06	2.1	07:00:00	26-Jun-06	3	07:00:00	26-Jun-06	-0.8	07:00:00	26-Jun-06
0	07:00:00	27-Jun-06	3.6	07:00:00	27-Jun-06	2.8	07:00:00	27-Jun-06	3	07:00:00	27-Jun-06	0.8	07:00:00	27-Jun-06
-0.4	07:00:00	28-Jun-06	3.6	07:00:00	28-Jun-06	2.8	07:00:00	28-Jun-06	3	07:00:00	28-Jun-06	-0.2	07:00:00	28-Jun-06
-2.5	07:00:00	29-Jun-06	3.6	07:00:00	29-Jun-06	2.8	07:00:00	29-Jun-06	3	07:00:00	29-Jun-06	-1.5	07:00:00	29-Jun-06
-3.4	07:00:00	30-Jun-06	2.8	07:00:00	30-Jun-06	2.8	07:00:00	30-Jun-06	3	07:00:00	30-Jun-06	-1.9	07:00:00	30-Jun-06
-4	07:00:00	01-Jul-06	-0.9	07:00:00	01-Jul-06	2.8	07:00:00	01-Jul-06	3	07:00:00	01-Jul-06	-2.3	07:00:00	01-Jul-06
-4.2	07:00:00	02-Jul-06	-3.6	07:00:00	02-Jul-06	2.8	07:00:00	02-Jul-06	3	07:00:00	02-Jul-06	-2.1	07:00:00	02-Jul-06
-8.2	07:00:00	03-Jul-06	-6.2	07:00:00	03-Jul-06	2.8	07:00:00	03-Jul-06	3	07:00:00	03-Jul-06	-2.7	07:00:00	03-Jul-06
-14.9	07:00:00	04-Jul-06	-7.7	07:00:00	04-Jul-06	2.8	07:00:00	04-Jul-06	3	07:00:00	04-Jul-06	-2.9	07:00:00	04-Jul-06
-21.8	07:00:00	05-Jul-06	-9.4	07:00:00	05-Jul-06	2.8	07:00:00	05-Jul-06	3	07:00:00	05-Jul-06	-2.5	07:00:00	05-Jul-06
-0.4	07:00:00	06-Jul-06	1.7	07:00:00	06-Jul-06	1.9	07:00:00	06-Jul-06	3	07:00:00	06-Jul-06	0.4	07:00:00	06-Jul-06
-4.8	07:00:00	07-Jul-06	3.4	07:00:00	07-Jul-06	2.8	07:00:00	07-Jul-06	3	07:00:00	07-Jul-06	-1.9	07:00:00	07-Jul-06
-6.7	07:00:00	08-Jul-06	2.6	07:00:00	08-Jul-06	2.8	07:00:00	08-Jul-06	3	07:00:00	08-Jul-06	-2.5	07:00:00	08-Jul-06
-12.8	07:00:00	09-Jul-06	-1.3	07:00:00	09-Jul-06	2.8	07:00:00	09-Jul-06	3	07:00:00	09-Jul-06	-2.9	07:00:00	09-Jul-06
-18.2	07:00:00	10-Jul-06	-3.6	07:00:00	10-Jul-06	2.8	07:00:00	10-Jul-06	3	07:00:00	10-Jul-06	-3.3	07:00:00	10-Jul-06
-25.1	07:00:00	11-Jul-06	-6.2	07:00:00	11-Jul-06	2.8	07:00:00	11-Jul-06	3	07:00:00	11-Jul-06	-4	07:00:00	11-Jul-06
-27.6	07:00:00	12-Jul-06	-7.6	07:00:00	12-Jul-06	2.8	07:00:00	12-Jul-06	3	07:00:00	12-Jul-06	-4.8	07:00:00	12-Jul-06
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-29.5	07:00:00	14-Jul-06	-10.6	07:00:00	14-Jul-06	2.8	07:00:00	14-Jul-06	3	07:00:00	14-Jul-06	-7.7	07:00:00	14-Jul-06
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-31.6	07:00:00	16-Jul-06	-14.7	07:00:00	16-Jul-06	2.8	07:00:00	16-Jul-06	3	07:00:00	16-Jul-06	-11.4	07:00:00	16-Jul-06
-32.6	07:00:00	17-Jul-06	-16.4	07:00:00	17-Jul-06	2.8	07:00:00	17-Jul-06	3	07:00:00	17-Jul-06	-15	07:00:00	17-Jul-06
-33.7	07:00:00	18-Jul-06	-17.9	07:00:00	18-Jul-06	2.8	07:00:00	18-Jul-06	3	07:00:00	18-Jul-06	-20.2	07:00:00	18-Jul-06
-34.3	07:00:00	19-Jul-06	-19.4	07:00:00	19-Jul-06	-0.8	07:00:00	19-Jul-06	3	07:00:00	19-Jul-06	-25.2	07:00:00	19-Jul-06
-36.2	07:00:00	20-Jul-06	-20.6	07:00:00	20-Jul-06	0	07:00:00	20-Jul-06	3	07:00:00	20-Jul-06	-29.3	07:00:00	20-Jul-06
-33.1	07:00:00	21-Jul-06	-15.3	07:00:00	21-Jul-06	2.1	07:00:00	21-Jul-06	3	07:00:00	21-Jul-06	-16	07:00:00	21-Jul-06
-34.7	07:00:00	22-Jul-06	-10	07:00:00	22-Jul-06	2.8	07:00:00	22-Jul-06	3	07:00:00	22-Jul-06	-7.1	07:00:00	22-Jul-06
-36	07:00:00	23-Jul-06	-9.3	07:00:00	23-Jul-06	2.8	07:00:00	23-Jul-06	3	07:00:00	23-Jul-06	-9.6	07:00:00	23-Jul-06
-36.2	07:00:00	24-Jul-06	-9.6	07:00:00	24-Jul-06	2.8	07:00:00	24-Jul-06	3	07:00:00	24-Jul-06	-15.8	07:00:00	24-Jul-06
-35.8	07:00:00	25-Jul-06	-11	07:00:00	25-Jul-06	2.8	07:00:00	25-Jul-06	3	07:00:00	25-Jul-06	-20.2	07:00:00	25-Jul-06
-36.4	07:00:00	26-Jul-06	-12.3	07:00:00	26-Jul-06	1.5	07:00:00	26-Jul-06	3	07:00:00	26-Jul-06	-23.5	07:00:00	26-Jul-06
-36.4	07:00:00	27-Jul-06	-13.8	07:00:00	27-Jul-06	2.1	07:00:00	27-Jul-06	3	07:00:00	27-Jul-06	-27.3	07:00:00	27-Jul-06
-36.2	07:00:00	28-Jul-06	-15.2	07:00:00	28-Jul-06	0.6	07:00:00	28-Jul-06	3	07:00:00	28-Jul-06	-31.6	07:00:00	28-Jul-06
-36.4	07:00:00	29-Jul-06	-17.2	07:00:00	29-Jul-06	-2.1	07:00:00	29-Jul-06	3	07:00:00	29-Jul-06	-33.9	07:00:00	29-Jul-06
-36.4	07:00:00	30-Jul-06	-17.9	07:00:00	30-Jul-06	-6.4	07:00:00	30-Jul-06	3	07:00:00	30-Jul-06	-33.9	07:00:00	30-Jul-06
-36.6	07:00:00	31-Jul-06	-19.1	07:00:00	31-Jul-06	-10.7	07:00:00	31-Jul-06	1.5	07:00:00	31-Jul-06	-33.9	07:00:00	31-Jul-06
-36.6	07:00:00	01-Aug-06	-20.4	07:00:00	01-Aug-06	-13.2	07:00:00	01-Aug-06	0.4	07:00:00	01-Aug-06	-33.9	07:00:00	01-Aug-06
-37	07:00:00	02-Aug-06	-21.3	07:00:00	02-Aug-06	-14.3	07:00:00	02-Aug-06	-1.3	07:00:00	02-Aug-06	-33.9	07:00:00	02-Aug-06
-37.2	07:00:00	03-Aug-06	-22.5	07:00:00	03-Aug-06	-16	07:00:00	03-Aug-06	-2.6	07:00:00	03-Aug-06	-33.9	07:00:00	03-Aug-06
-37.4	07:00:00	04-Aug-06	-22.8	07:00:00	04-Aug-06	-16.2	07:00:00	04-Aug-06	-3.7	07:00:00	04-Aug-06	-34.1	07:00:00	04-Aug-06
-36.4	07:00:00	05-Aug-06	-22.8	07:00:00	05-Aug-06	-12	07:00:00	05-Aug-06	-1.9	07:00:00	05-Aug-06	-33.7	07:00:00	05-Aug-06
-36.2	07:00:00	06-Aug-06	-21.3	07:00:00	06-Aug-06	-10.9	07:00:00	06-Aug-06	-4.1	07:00:00	06-Aug-06	-33.9	07:00:00	06-Aug-06
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-35.6	07:00:00	08-Aug-06	-20.6	07:00:00	08-Aug-06	-13.7	07:00:00	08-Aug-06	-6.9	07:00:00	08-Aug-06	-34.1	07:00:00	08-Aug-06
-35.6	07:00:00	09-Aug-06	-20	07:00:00	09-Aug-06	-18.2	07:00:00	09-Aug-06	-6.9	07:00:00	09-Aug-06	-34.1	07:00:00	09-Aug-06
-35.6	07:00:00	10-Aug-06	-13.6	07:00:00	10-Aug-06	-10.3	07:00:00	10-Aug-06	3	07:00:00	10-Aug-06	-33.7	07:00:00	10-Aug-06
-36	07:00:00	11-Aug-06	-14	07:00:00	11-Aug-06	-9.6	07:00:00	11-Aug-06	3	07:00:00	11-Aug-06	-33.9	07:00:00	11-Aug-06
-36.2	07:00:00	12-Aug-06	-0.4	07:00:00	12-Aug-06	-6	07:00:00	12-Aug-06	3	07:00:00	12-Aug-06	-10.6	07:00:00	12-Aug-06
-36.6	07:00:00	13-Aug-06	-3.2	07:00:00	13-Aug-06	-2.4	07:00:00	13-Aug-06	3	07:00:00	13-Aug-06	-2.3	07:00:00	13-Aug-06
-36.4	07:00:00	14-Aug-06	-7.2	07:00:00	14-Aug-06	-3.9	07:00:00	14-Aug-06	3	07:00:00	14-Aug-06	-3.3	07:00:00	14-Aug-06
-36.2	07:00:00	15-Aug-06	-8.9	07:00:00	15-Aug-06	-6.4	07:00:00	15-Aug-06	3	07:00:00	15-Aug-06	-3.3	07:00:00	15-Aug-06
-36.4	07:00:00	16-Aug-06	-10.4	07:00:00	16-Aug-06	-10.9	07:00:00	16-Aug-06	3	07:00:00	16-Aug-06	-3.5	07:00:00	16-Aug-06
-36.8	07:00:00	17-Aug-06	-12.5	07:00:00	17-Aug-06	-19	07:00:00	17-Aug-06	3	07:00:00	17-Aug-06	-4	07:00:00	17-Aug-06
-37.4	07:00:00	18-Aug-06	-14.4	07:00:00	18-Aug-06	-23.9	07:00:00	18-Aug-06	3	07:00:00	18-Aug-06	-4.4	07:00:00	18-Aug-06
-37.4	07:00:00	19-Aug-06	-15.1	07:00:00	19-Aug-06	-28	07:00:00	19-Aug-06	3	07:00:00	19-Aug-06	-5	07:00:00	19-Aug-06
-36.4	07:00:00	20-Aug-06	-15.1	07:00:00	20-Aug-06	-31.6	07:00:00	20-Aug-06	3	07:00:00	20-Aug-06	-5	07:00:00	20-Aug-06
-36.4	07:00:00	21-Aug-06	-15.5	07:00:00	21-Aug-06	-31.6	07:00:00	21-Aug-06	3	07:00:00	21-Aug-06	-5.4	07:00:00	21-Aug-06
-36	07:00:00	22-Aug-06	-15.1	07:00:00	22-Aug-06	-31.9	07:00:00	22-Aug-06	3	07:00:00	22-Aug-06	-3.3	07:00:00	22-Aug-06
-36.2	07:00:00	23-Aug-06	-13.2	07:00:00	23-Aug-06	-32.3	07:00:00	23-Aug-06	3	07:00:00	23-Aug-06	-2.3	07:00:00	23-Aug-06
-36.6	07:00:00	24-Aug-06	-14	07:00:00	24-Aug-06	-33.1	07:00:00	24-Aug-06	3	07:00:00	24-Aug-06	-2.5	07:00:00	24-Aug-06
-36.6	07:00:00	25-Aug-06	-15.3	07:00:00	25-Aug-06	-33.3	07:00:00	25-Aug-06	3	07:00:00	25-Aug-06	-3.3	07:00:00	25-Aug-06
-36.8	07:00:00	26-Aug-06	-16.8	07:00:00	26-Aug-06	-33.6	07:00:00	26-Aug-06	3	07:00:00	26-Aug-06	-3.5	07:00:00	26-Aug-06
-37	07:00:00	27-Aug-06	-17.6	07:00:00	27-Aug-06	-33.6	07:00:00	27-Aug-06	3	07:00:00	27-Aug-06	-3.9	07:00:00	27-Aug-06
-37.4	07:00:00	28-Aug-06	-18.3	07:00:00	28-Aug-06	-33.8	07:00:00	28-Aug-06	3	07:00:00	28-Aug-06	-4	07:00:00	28-Aug-06
-37.4	07:00:00	29-Aug-06	-19.1	07:00:00	29-Aug-06	-33.6	07:00:00	29-Aug-06	3	07:00:00	29-Aug-06	-4.6	07:00:00	29-Aug-06
-37.2	07:00:00	30-Aug-06	-19.8	07:00:00	30-Aug-06	-33.8	07:00:00	30-Aug-06	3	07:00:00	30-Aug-06	-5.2	07:00:00	30-Aug-06
-36	07:00:00	31-Aug-06	-12.1	07:00:00	31-Aug-06	-33.4	07:00:00	31-Aug-06	3	07:00:00	31-Aug-06	-1	07:00:00	31-Aug-06

Prepared For:

Ecosystem Enhancement Program

Shepherds Tree Stream and Wetland Restoration
Year 2 of 5

Appendix C1. Data Tables for Hydrological Data

Date: January 2007
Project No.: 333

Jordan Jones & Boulding Incorporated

File name

Well 7			Well 8			Well 10			Well 11			Well 12		
-36.8	07:00:00	01-Sep-06	-2.3	07:00:00	01-Sep-06	-32.3	07:00:00	01-Sep-06	3	07:00:00	01-Sep-06	-1.3	07:00:00	01-Sep-06
-36.8	07:00:00	02-Sep-06	-5.3	07:00:00	02-Sep-06	-14.5	07:00:00	02-Sep-06	3	07:00:00	02-Sep-06	-1.9	07:00:00	02-Sep-06
-36.4	07:00:00	03-Sep-06	-7.6	07:00:00	03-Sep-06	-9.8	07:00:00	03-Sep-06	3	07:00:00	03-Sep-06	-1.7	07:00:00	03-Sep-06
-36.2	07:00:00	04-Sep-06	-8.7	07:00:00	04-Sep-06	-12.2	07:00:00	04-Sep-06	3	07:00:00	04-Sep-06	-1.7	07:00:00	04-Sep-06
-36.6	07:00:00	05-Sep-06	-3.8	07:00:00	05-Sep-06	-10.3	07:00:00	05-Sep-06	3	07:00:00	05-Sep-06	-1.5	07:00:00	05-Sep-06
-36.8	07:00:00	06-Sep-06	-4.3	07:00:00	06-Sep-06	-7	07:00:00	06-Sep-06	3	07:00:00	06-Sep-06	-1.7	07:00:00	06-Sep-06
-36.8	07:00:00	07-Sep-06	-7.2	07:00:00	07-Sep-06	-7.1	07:00:00	07-Sep-06	3	07:00:00	07-Sep-06	-1.9	07:00:00	07-Sep-06
-36.8	07:00:00	08-Sep-06	-8.1	07:00:00	08-Sep-06	-10.3	07:00:00	08-Sep-06	3	07:00:00	08-Sep-06	-1.9	07:00:00	08-Sep-06
-37	07:00:00	09-Sep-06	-9.8	07:00:00	09-Sep-06	-13.9	07:00:00	09-Sep-06	3	07:00:00	09-Sep-06	-2.1	07:00:00	09-Sep-06
-37.2	07:00:00	10-Sep-06	-10.6	07:00:00	10-Sep-06	-17.7	07:00:00	10-Sep-06	3	07:00:00	10-Sep-06	-2.3	07:00:00	10-Sep-06
-36.6	07:00:00	11-Sep-06	-5.7	07:00:00	11-Sep-06	-7.9	07:00:00	11-Sep-06	3	07:00:00	11-Sep-06	-1.7	07:00:00	11-Sep-06
-36.8	07:00:00	12-Sep-06	-7.4	07:00:00	12-Sep-06	-6.8	07:00:00	12-Sep-06	3	07:00:00	12-Sep-06	-1.7	07:00:00	12-Sep-06
-36.4	07:00:00	13-Sep-06	-2.1	07:00:00	13-Sep-06	-6.2	07:00:00	13-Sep-06	3	07:00:00	13-Sep-06	-0.6	07:00:00	13-Sep-06
-2.3	07:00:00	14-Sep-06	3.6	07:00:00	14-Sep-06	2.8	07:00:00	14-Sep-06	3	07:00:00	14-Sep-06	1.7	07:00:00	14-Sep-06
-4	07:00:00	15-Sep-06	3.6	07:00:00	15-Sep-06	2.8	07:00:00	15-Sep-06	3	07:00:00	15-Sep-06	-1.2	07:00:00	15-Sep-06
-4.4	07:00:00	16-Sep-06	3.4	07:00:00	16-Sep-06	2.8	07:00:00	16-Sep-06	3	07:00:00	16-Sep-06	-1.3	07:00:00	16-Sep-06
-5	07:00:00	17-Sep-06	2.3	07:00:00	17-Sep-06	2.8	07:00:00	17-Sep-06	3	07:00:00	17-Sep-06	-1.2	07:00:00	17-Sep-06
-7.5	07:00:00	18-Sep-06	0.2	07:00:00	18-Sep-06	2.3	07:00:00	18-Sep-06	3	07:00:00	18-Sep-06	-1.3	07:00:00	18-Sep-06
-11.3	07:00:00	19-Sep-06	0	07:00:00	19-Sep-06	2.6	07:00:00	19-Sep-06	3	07:00:00	19-Sep-06	-0.8	07:00:00	19-Sep-06
-7.5	07:00:00	20-Sep-06	2.6	07:00:00	20-Sep-06	2.3	07:00:00	20-Sep-06	3	07:00:00	20-Sep-06	-1.3	07:00:00	20-Sep-06
-13.8	07:00:00	21-Sep-06	0.2	07:00:00	21-Sep-06	1.7	07:00:00	21-Sep-06	3	07:00:00	21-Sep-06	-1.5	07:00:00	21-Sep-06
-18	07:00:00	22-Sep-06	-0.4	07:00:00	22-Sep-06	1.3	07:00:00	22-Sep-06	3	07:00:00	22-Sep-06	-1.3	07:00:00	22-Sep-06
-20.9	07:00:00	23-Sep-06	-0.4	07:00:00	23-Sep-06	1.7	07:00:00	23-Sep-06	3	07:00:00	23-Sep-06	-1.2	07:00:00	23-Sep-06
-24.3	07:00:00	24-Sep-06	-2.3	07:00:00	24-Sep-06	2.6	07:00:00	24-Sep-06	3	07:00:00	24-Sep-06	-0.4	07:00:00	24-Sep-06
-28.4	07:00:00	25-Sep-06	-1.3	07:00:00	25-Sep-06	2.6	07:00:00	25-Sep-06	3	07:00:00	25-Sep-06	-1	07:00:00	25-Sep-06
-30.8	07:00:00	26-Sep-06	-4	07:00:00	26-Sep-06	1.3	07:00:00	26-Sep-06	3	07:00:00	26-Sep-06	-1.3	07:00:00	26-Sep-06
-32.6	07:00:00	27-Sep-06	-5.5	07:00:00	27-Sep-06	0.6	07:00:00	27-Sep-06	3	07:00:00	27-Sep-06	-1.3	07:00:00	27-Sep-06
-33.7	07:00:00	28-Sep-06	-6.6	07:00:00	28-Sep-06	0.2	07:00:00	28-Sep-06	3	07:00:00	28-Sep-06	-1.3	07:00:00	28-Sep-06
-35.3	07:00:00	29-Sep-06	-5.3	07:00:00	29-Sep-06	0.2	07:00:00	29-Sep-06	3	07:00:00	29-Sep-06	-1.5	07:00:00	29-Sep-06
-37.6	07:00:00	30-Sep-06	-7.6	07:00:00	30-Sep-06	-0.6	07:00:00	30-Sep-06	3	07:00:00	30-Sep-06	-1.9	07:00:00	30-Sep-06
-37.4	07:00:00	01-Oct-06	-7.7	07:00:00	01-Oct-06	-1.1	07:00:00	01-Oct-06	3	07:00:00	01-Oct-06	-1.7	07:00:00	01-Oct-06
-37.6	07:00:00	02-Oct-06	-8.9	07:00:00	02-Oct-06	-2.1	07:00:00	02-Oct-06	3	07:00:00	02-Oct-06	-1.7	07:00:00	02-Oct-06
-37.7	07:00:00	03-Oct-06	-9.8	07:00:00	03-Oct-06	-2.1	07:00:00	03-Oct-06	3	07:00:00	03-Oct-06	-1.9	07:00:00	03-Oct-06
-37.6	07:00:00	04-Oct-06	-10.8	07:00:00	04-Oct-06	-1.3	07:00:00	04-Oct-06	3	07:00:00	04-Oct-06	-1.9	07:00:00	04-Oct-06
-37.7	07:00:00	05-Oct-06	-11	07:00:00	05-Oct-06	-0.6	07:00:00	05-Oct-06	3	07:00:00	05-Oct-06	-1.9	07:00:00	05-Oct-06
-37.6	07:00:00	06-Oct-06	-8.3	07:00:00	06-Oct-06	1.3	07:00:00	06-Oct-06	3	07:00:00	06-Oct-06	-1.5	07:00:00	06-Oct-06
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-37.6	07:00:00	09-Oct-06	-3.8	07:00:00	09-Oct-06	2.8	07:00:00	09-Oct-06	3	07:00:00	09-Oct-06	-1.5	07:00:00	09-Oct-06
-37.7	07:00:00	10-Oct-06	-5.3	07:00:00	10-Oct-06	2.8	07:00:00	10-Oct-06	3	07:00:00	10-Oct-06	-1.7	07:00:00	10-Oct-06
-37.7	07:00:00	11-Oct-06	-6.8	07:00:00	11-Oct-06	2.8	07:00:00	11-Oct-06	3	07:00:00	11-Oct-06	-1.3	07:00:00	11-Oct-06
-37.7	07:00:00	12-Oct-06	-7.4	07:00:00	12-Oct-06	2.8	07:00:00	12-Oct-06	3	07:00:00	12-Oct-06	-1.3	07:00:00	12-Oct-06
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-38.1	07:00:00	15-Oct-06	-11	07:00:00	15-Oct-06	2.3	07:00:00	15-Oct-06	3	07:00:00	15-Oct-06	-3.1	07:00:00	15-Oct-06
-38.1	07:00:00	16-Oct-06	-11.1	07:00:00	16-Oct-06	2.4	07:00:00	16-Oct-06	3	07:00:00	16-Oct-06	-3.3	07:00:00	16-Oct-06
-37.7	07:00:00	17-Oct-06	-6	07:00:00	17-Oct-06	2.8	07:00:00	17-Oct-06	3	07:00:00	17-Oct-06	-2.1	07:00:00	17-Oct-06
-3.1	07:00:00	18-Oct-06	3.6	07:00:00	18-Oct-06	2.8	07:00:00	18-Oct-06	3	07:00:00	18-Oct-06	0.6	07:00:00	18-Oct-06
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-3.3	07:00:00	20-Oct-06	3.6	07:00:00	20-Oct-06	2.8	07:00:00	20-Oct-06	3	07:00:00	20-Oct-06	-0.8	07:00:00	20-Oct-06
-4.8	07:00:00	21-Oct-06	3.4	07:00:00	21-Oct-06	2.8	07:00:00	21-Oct-06	3	07:00:00	21-Oct-06	-1.7	07:00:00	21-Oct-06
-4.8	07:00:00	22-Oct-06	3.4	07:00:00	22-Oct-06	2.8	07:00:00	22-Oct-06	3	07:00:00	22-Oct-06	-1.7	07:00:00	22-Oct-06
-5.2	07:00:00	23-Oct-06	3.2	07:00:00	23-Oct-06	2.8	07:00:00	23-Oct-06	3	07:00:00	23-Oct-06	-2.1	07:00:00	23-Oct-06
-5.7	07:00:00	24-Oct-06	2.6	07:00:00	24-Oct-06	2.8	07:00:00	24-Oct-06	3	07:00:00	24-Oct-06	-2.5	07:00:00	24-Oct-06
-6.3	07:00:00	25-Oct-06	1.7	07:00:00	25-Oct-06	2.8	07:00:00	25-Oct-06	3	07:00:00	25-Oct-06	-2.7	07:00:00	25-Oct-06
-6.3	07:00:00	26-Oct-06	1.5	07:00:00	26-Oct-06	2.8	07:00:00	26-Oct-06	3	07:00:00	26-Oct-06	-2.7	07:00:00	26-Oct-06
-6.7	07:00:00	27-Oct-06	1.1	07:00:00	27-Oct-06	2.8	07:00:00	27-Oct-06	3	07:00:00	27-Oct-06	-2.3	07:00:00	27-Oct-06
-2.7	07:00:00	28-Oct-06	3.6	07:00:00	28-Oct-06	2.8	07:00:00	28-Oct-06	3	07:00:00	28-Oct-06	0.2	07:00:00	28-Oct-06
-4.2	07:00:00	29-Oct-06	3.2	07:00:00	29-Oct-06	2.8	07:00:00	29-Oct-06	3	07:00:00	29-Oct-06	-1.9	07:00:00	29-Oct-06
-4.4	07:00:00	30-Oct-06	3	07:00:00	30-Oct-06	2.8	07:00:00	30-Oct-06	3	07:00:00	30-Oct-06	-1.9	07:00:00	30-Oct-06
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-4.4	07:00:00	01-Nov-06	2.8	07:00:00	01-Nov-06	2.8	07:00:00	01-Nov-06	3	07:00:00	01-Nov-06	-1.9	07:00:00	01-Nov-06
-4.4	07:00:00	02-Nov-06	2.8	07:00:00	02-Nov-06	2.8	07:00:00	02-Nov-06	3	07:00:00	02-Nov-06	-1.2	07:00:00	02-Nov-06
-5.7	07:00:00	03-Nov-06	1.5	07:00:00	03-Nov-06	2.8	07:00:00	03-Nov-06	3	07:00:00	03-Nov-06	-2.5	07:00:00	03-Nov-06
-6.3	07:00:00	04-Nov-06	0.4	07:00:00	04-Nov-06	2.8	07:00:00	04-Nov-06	3	07:00:00	04-Nov-06	-2.7	07:00:00	04-Nov-06
-6.7	07:00:00	05-Nov-06	-0.2	07:00:00	05-Nov-06	2.8	07:00:00	05-Nov-06	3	07:00:00	05-Nov-06	-3.1	07:00:00	05-Nov-06
-7.1	07:00:00	06-Nov-06	-0.6	07:00:00	06-Nov-06	2.8	07:00:00	06-Nov-06	3	07:00:00	06-Nov-06	-3.1	07:00:00	06-Nov-06
-5.7	07:00:00	07-Nov-06	1.7	07:00:00	07-Nov-06	2.8	07:00:00	07-Nov-06	3	07:00:00	07-Nov-06	-1.9	07:00:00	07-Nov-06
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-3.3	07:00:00	12-Nov-06	2.8	07:00:00	12-Nov-06	2.8	07:00:00	12-Nov-06	3	07:00:00	12-Nov-06	0.2	07:00:00	12-Nov-06
-3.8	07:00:00	13-Nov-06	3.4	07:00:00	13-Nov-06	2.8	07:00:00	13-Nov-06	3	07:00:00	13-Nov-06	-1.7	07:00:00	13-Nov-06
-4.2	07:00:00	14-Nov-06	3.2	07:00:00	14-Nov-06	0.2	07:00:00	14-Nov-06	3	07:00:00	14-Nov-06	-1.9	07:00:00	14-Nov-06
-4	07:00:00	15-Nov-06	3.4	07:00:00	15-Nov-06	-3.6	07:00:00	15-Nov-06	3	07:00:00	15-Nov-06	-1.9	07:00:00	15-Nov-06
-1	07:00:00	16-Nov-06	3.6	07:00:00	16-Nov-06	2.8	07:00:00	16-Nov-06	3	07:00:00	16-Nov-06	3.9	07:00:00	16-Nov-06
-3.8	07:00:00	17-Nov-06	3.6	07:00:00	17-Nov-06	2.8	07:00:00	17-Nov-06	3	07:00:00	17-Nov-06	-0.2	07:00:00	17-Nov-06
-3.8	07:00:00	18-Nov-06	3.4	07:00:00	18-Nov-06	2.3	07:00:00	18-Nov-06	3	07:00:00	18-Nov-06	-1.3	07:00:00	18-Nov-06
-4.2	07:00:00	19-Nov-06	3.2	07:00:00	19-Nov-06	0.8	07:00:00	19-Nov-06	3	07:00:00	19-Nov-06	-1.9	07:00:00	19-Nov-06
-4.2	07:00:00	20-Nov-06	3.4	07:00:00	20-Nov-06	-3.2	07:00:00	20-Nov-06	3	07:00:00	20-Nov-06	-2.1	07:00:00	20-Nov-06
-4.6	07:00:00	21-Nov-06	3	07:00:00	21-Nov-06	-10.9	07:00:00	21-Nov-06	3	07:00:00	21-Nov-06	-2.3	07:00:00	21-Nov-06
-3.1	07:00:00	22-Nov-06	3.6	07:00:00	22-Nov-06	2.8	07:00:00	22-Nov-06	3	07:00:00	22-Nov-06	0.8	07:00:00	22-Nov-06
-3.6	07:00:00	23-Nov-06	3.6	07:00:00	23-Nov-06	2.8	07:00:00	23-Nov-06	3	07:00:00	23-Nov-06	0	07:00:00	23-Nov-06
-3.8	07:00:00	24-Nov-06	3.4	07:00:00	24-Nov-06	2.6	07:00:00	24-Nov-06	3	07:00:00	24-Nov-06	-1.2	07:00:00	24-Nov-06
-4.2	07:00:00	25-Nov-06	3	07:00:00	25-Nov-06	0.6	07:00:00	25-Nov-06	3	07:00:00	25-Nov-06	-1.7	07:00:00	25-Nov-06
-4.4	07:00:00	26-Nov-06	2.8	07:00:00	26-Nov-06	-3.8	07:00:00	26-Nov-06	3	07:00:00	26-Nov-06	-1.9	07:00:00	26-Nov-06
-4.8	07:00:00	27-Nov-06	2.8	07:00:00	27-Nov-06	-9.2	07:00:00	27-Nov-06	3	07:00:00	27-Nov-06	-1.9	07:00:00	27-Nov-06
-4.8	07:00:00	28-Nov-06	2.8	07:00:00	28-Nov-06	-14.7	07:00:00	28-Nov-06	3	07:00:00	28-Nov-06	-1.9	07:00:00	28-Nov-06
-4.4	07:00:00	29-Nov-06	3.6	07:00:00	29-Nov-06	-16.3	07:00:00	29-Nov-06	3	07:00:00	29-Nov-06	-1.7	07:00:00	29-Nov-06
-4	07:00:00	30-Nov-06	3.6	07:00:00	30-Nov-06	-19.7	07:00:00	30-Nov-06	3	07:00:00	30-Nov-06	-1.2	07:00:00	30-Nov-06
-4.6	07:00:00	01-Dec-06	3.6	07:00:00	01-Dec-06	-21.2	07:00:00	01-Dec-06	3	07:00:00	01-Dec-06	-1.7	07:00:00	01-Dec-06
-5.2	07:00:00	02-Dec-06	2.8	07:00:00	02-Dec-06	-22.7	07:00:00	02-Dec-06	3	07:00:00	02-Dec-06	-1.9	07:00:00	02-Dec-06
-5.2	07:00:00	03-Dec-06	3	07:00:00	03-Dec-06	-24.4	07:00:00	03-Dec-06	3	07:00:00	03-Dec-06	-1.9	07:00:00	03-Dec-06
-5.7	07:00:00	04-Dec-06	2.8	07:00:00	04-Dec-06	-26.7	07:00:00	04-Dec-06	3	07:00:00	04-Dec-06	-1.9	07:00:00	04-Dec-06
-6.5	07:00:00	05-Dec-06	2.6	07:00:00	05-Dec-06	-28	07:00:00	05-Dec-06	3	07:00:00	05-Dec-06	-2.5	07:00:00	05-Dec-06
-6.7	07:00:00	06-Dec-06	2.5	07:00:00	06-Dec-06	-29.1	07:00:00	06-Dec-06	3	07:00:00	06-Dec-06	-2.7	07:00:00	06-Dec-06
-6.5	07:00:00	07-Dec-06	2.6	07:00:00	07-Dec-06	-30.4	07:00:00	07-Dec-06	3	07:00:00	07-Dec-06	-2.3	07:00:00	07-Dec-06
-8.2	07:00:00	08-Dec-06	2.1	07:00:00	08-Dec-06	-31.6	07:00:00	08-Dec-06	3	07:00:00	08-Dec-06	-3.1	07:00:00	08-Dec-06
-10.7	07:00:00	09-Dec-06	0.8	07:00:00	09-Dec-06	-32.3	07:00:00	09-Dec-06	3	07:00:00	09-Dec-06	-3.5	07:00:00	09-Dec-06
-12.3	07:00:00	10-Dec-06	0.9	07:00:00	10-Dec-06	-32.7	07:00:00	10-Dec-06	3	07:00:00	10-Dec-06	-3.7	07:00:00	10-Dec-06
-12.1	07:00:00	11-Dec-06	1.7	07:00:00	11-Dec-06	-33.3	07:00:00	11-Dec-06	3	07:00:00	11-Dec-06	-3.3	07:00:00	11-Dec-06
-13.6	07:00:00	12-Dec-06	1.7	07:00:00	12-Dec-06	-33.4	07:00:00	12-Dec-06	3	07:00:00	12-Dec-06	-3.1	07:00:00	12-Dec-06
-13.4	07:00:00	13-Dec-06	2.3	07:00:00	13-Dec-06	-33.4	07:00:00	13-Dec-06	3	07:00:00	13-Dec-06	-3.1	07:00:00	13-Dec-06
-14.8	07:00:00	14-Dec-06	2.3	07:00:00	14-Dec-06	-33.8	07:00:00	14-Dec-06	3	07:00:00	14-Dec-06	-2.5	07:00:00	14-Dec-06
-15.1	07:00:00	15-Dec-06	2.6	07:00:00	15-Dec-06	-33.6	07:00:00	15-Dec-06	3	07:00:00	15-Dec-06	-2.1	07:00:00	15-Dec-06
-16.5	07:00:00	16-Dec-06	2.3	07:00:00	16-Dec-06	-34	07:00:00	16-Dec-06	3	07:00:00	16-Dec-06	-2.5	07:00:00	16-Dec-06
-17.6	07:00:00	17-Dec-06	2.3	07:00:00	17-Dec-06	-34	07:00:00	17-Dec-06	3	07:00:00	17-Dec-06	-2.5	07:00:00	17-Dec-06
-18.4	07:00:00	18-Dec-06	2.3	07:00:00	18-Dec-06	-34.2	07:00:00	18-Dec-06	3	07:00:00	18-Dec-06	-2.7	07:00:00	18-Dec-06
-19.2	07:00:00	19-Dec-06	2.3	07:00:00	19-Dec-06	-34.2	07:00:00	19-Dec-06	3	07:00:00	19-Dec-06	-2.7	07:00:00	19-Dec-06

Prepared For:

Ecosystem Enhancement Program

Shepherds Tree Stream and Wetland Restoration
Year 2 of 5

Appendix C1. Data Tables for Hydrologic Data

Date: January 2007
Project No.: 333

Jordan Jones & Boulding Incorporated

File name

Serial # - 04CFE45 / Well 13			Serial # - 049418D / Well 14			Serial # - 051C06F / Well 15			Serial # - 05170CF / Well 16			Serial # - 051BDD1 / Well 17			Serial # - 03173A9 / Well 18		
1	07:00:00	01-Mar-06	1.1	07:00:00	01-Mar-06	-8.3	07:00:00	01-Mar-06	1.1	07:00:00	01-Mar-06	-17.6	07:00:00	01-Mar-06	-6.4	07:00:00	01-Mar-06
1	07:00:00	02-Mar-06	0.8	07:00:00	02-Mar-06	-8.5	07:00:00	02-Mar-06	1.1	07:00:00	02-Mar-06	-18.4	07:00:00	02-Mar-06	-8.2	07:00:00	02-Mar-06
0.6	07:00:00	03-Mar-06	3.4	07:00:00	03-Mar-06	-10.8	07:00:00	03-Mar-06	-1.1	07:00:00	03-Mar-06	-19.9	07:00:00	03-Mar-06	-10.8	07:00:00	03-Mar-06
0.2	07:00:00	04-Mar-06	3.6	07:00:00	04-Mar-06	-12.5	07:00:00	04-Mar-06	-2.8	07:00:00	04-Mar-06	-21.8	07:00:00	04-Mar-06	-14.4	07:00:00	04-Mar-06
0.2	07:00:00	05-Mar-06	2.8	07:00:00	05-Mar-06	-13.9	07:00:00	05-Mar-06	-4	07:00:00	05-Mar-06	-22.8	07:00:00	05-Mar-06	-16.6	07:00:00	05-Mar-06
1.1	07:00:00	06-Mar-06	2.1	07:00:00	06-Mar-06	-12.9	07:00:00	06-Mar-06	-1.3	07:00:00	06-Mar-06	-22.6	07:00:00	06-Mar-06	-17.2	07:00:00	06-Mar-06
1.1	07:00:00	07-Mar-06	2.5	07:00:00	07-Mar-06	-7.9	07:00:00	07-Mar-06	1.3	07:00:00	07-Mar-06	-23	07:00:00	07-Mar-06	-6.9	07:00:00	07-Mar-06
0.6	07:00:00	08-Mar-06	1.3	07:00:00	08-Mar-06	-10.2	07:00:00	08-Mar-06	-0.8	07:00:00	08-Mar-06	-22.8	07:00:00	08-Mar-06	-9.3	07:00:00	08-Mar-06
0.8	07:00:00	09-Mar-06	1.7	07:00:00	09-Mar-06	-10.4	07:00:00	09-Mar-06	-0.9	07:00:00	09-Mar-06	-22.4	07:00:00	09-Mar-06	-11.9	07:00:00	09-Mar-06
1	07:00:00	10-Mar-06	0.2	07:00:00	10-Mar-06	-11.2	07:00:00	10-Mar-06	-1.3	07:00:00	10-Mar-06	-22	07:00:00	10-Mar-06	-13.7	07:00:00	10-Mar-06
1	07:00:00	11-Mar-06	2.1	07:00:00	11-Mar-06	-13.3	07:00:00	11-Mar-06	-2.5	07:00:00	11-Mar-06	-22.2	07:00:00	11-Mar-06	-15.9	07:00:00	11-Mar-06
1.5	07:00:00	12-Mar-06	2.8	07:00:00	12-Mar-06	-6.2	07:00:00	12-Mar-06	2.7	07:00:00	12-Mar-06	-14	07:00:00	12-Mar-06	-4.2	07:00:00	12-Mar-06
1.3	07:00:00	13-Mar-06	1.5	07:00:00	13-Mar-06	-6.9	07:00:00	13-Mar-06	2.7	07:00:00	13-Mar-06	-15	07:00:00	13-Mar-06	-4.9	07:00:00	13-Mar-06
1	07:00:00	14-Mar-06	1.5	07:00:00	14-Mar-06	-8.3	07:00:00	14-Mar-06	0.9	07:00:00	14-Mar-06	-15.6	07:00:00	14-Mar-06	-7.1	07:00:00	14-Mar-06
0.6	07:00:00	15-Mar-06	1.3	07:00:00	15-Mar-06	-12.1	07:00:00	15-Mar-06	-2.3	07:00:00	15-Mar-06	-17.6	07:00:00	15-Mar-06	-13	07:00:00	15-Mar-06
0.8	07:00:00	16-Mar-06	2.3	07:00:00	16-Mar-06	-13.3	07:00:00	16-Mar-06	-3.2	07:00:00	16-Mar-06	-17.5	07:00:00	16-Mar-06	-15.5	07:00:00	16-Mar-06
1	07:00:00	17-Mar-06	2.3	07:00:00	17-Mar-06	-14.4	07:00:00	17-Mar-06	3.6	07:00:00	17-Mar-06	-18	07:00:00	17-Mar-06	-17.2	07:00:00	17-Mar-06
0.6	07:00:00	18-Mar-06	2.1	07:00:00	18-Mar-06	-15.8	07:00:00	18-Mar-06	3.6	07:00:00	18-Mar-06	-22.2	07:00:00	18-Mar-06	-19	07:00:00	18-Mar-06
0.6	07:00:00	19-Mar-06	1.5	07:00:00	19-Mar-06	-10.8	07:00:00	19-Mar-06	3.6	07:00:00	19-Mar-06	-22.8	07:00:00	19-Mar-06	-20.3	07:00:00	19-Mar-06
0.6	07:00:00	20-Mar-06	1.5	07:00:00	20-Mar-06	0.6	07:00:00	20-Mar-06	3.6	07:00:00	20-Mar-06	-23.3	07:00:00	20-Mar-06	-21	07:00:00	20-Mar-06
1.9	07:00:00	21-Mar-06	1.1	07:00:00	21-Mar-06	4.2	07:00:00	21-Mar-06	3.6	07:00:00	21-Mar-06	1.1	07:00:00	21-Mar-06	0.5	07:00:00	21-Mar-06
1.7	07:00:00	22-Mar-06	2.8	07:00:00	22-Mar-06	4.2	07:00:00	22-Mar-06	3.6	07:00:00	22-Mar-06	-2.1	07:00:00	22-Mar-06	0	07:00:00	22-Mar-06
1	07:00:00	23-Mar-06	3.6	07:00:00	23-Mar-06	3.9	07:00:00	23-Mar-06	3.6	07:00:00	23-Mar-06	-9.1	07:00:00	23-Mar-06	-1.3	07:00:00	23-Mar-06
1.1	07:00:00	24-Mar-06	2.7	07:00:00	24-Mar-06	4.2	07:00:00	24-Mar-06	3.6	07:00:00	24-Mar-06	-11.8	07:00:00	24-Mar-06	-1.8	07:00:00	24-Mar-06
1.1	07:00:00	25-Mar-06	2.1	07:00:00	25-Mar-06	4.2	07:00:00	25-Mar-06	3.6	07:00:00	25-Mar-06	-13.9	07:00:00	25-Mar-06	-2.4	07:00:00	25-Mar-06
0.6	07:00:00	26-Mar-06	2.1	07:00:00	26-Mar-06	3.9	07:00:00	26-Mar-06	3.6	07:00:00	26-Mar-06	-15.9	07:00:00	26-Mar-06	-4.2	07:00:00	26-Mar-06
0.6	07:00:00	27-Mar-06	0.6	07:00:00	27-Mar-06	4	07:00:00	27-Mar-06	3.6	07:00:00	27-Mar-06	-18.2	07:00:00	27-Mar-06	-5.8	07:00:00	27-Mar-06
0.8	07:00:00	28-Mar-06	1.5	07:00:00	28-Mar-06	4.2	07:00:00	28-Mar-06	3.6	07:00:00	28-Mar-06	-18.8	07:00:00	28-Mar-06	-8.2	07:00:00	28-Mar-06
1	07:00:00	29-Mar-06	1.1	07:00:00	29-Mar-06	4.2	07:00:00	29-Mar-06	3.6	07:00:00	29-Mar-06	-19.9	07:00:00	29-Mar-06	-11	07:00:00	29-Mar-06
1	07:00:00	30-Mar-06	1.1	07:00:00	30-Mar-06	4.2	07:00:00	30-Mar-06	3.6	07:00:00	30-Mar-06	-20.9	07:00:00	30-Mar-06	-13.7	07:00:00	30-Mar-06
1	07:00:00	31-Mar-06	-1.1	07:00:00	31-Mar-06	4.2	07:00:00	31-Mar-06	3.6	07:00:00	31-Mar-06	-21.6	07:00:00	31-Mar-06	-15.7	07:00:00	31-Mar-06
1.5	07:00:00	01-Apr-06	-2.8	07:00:00	01-Apr-06	4.2	07:00:00	01-Apr-06	3.6	07:00:00	01-Apr-06	-20.5	07:00:00	01-Apr-06	-16.4	07:00:00	01-Apr-06
1	07:00:00	02-Apr-06	-4	07:00:00	02-Apr-06	4.2	07:00:00	02-Apr-06	3.6	07:00:00	02-Apr-06	-19.9	07:00:00	02-Apr-06	-17.7	07:00:00	02-Apr-06
1.5	07:00:00	03-Apr-06	-1.3	07:00:00	03-Apr-06	4.2	07:00:00	03-Apr-06	3.6	07:00:00	03-Apr-06	-22.2	07:00:00	03-Apr-06	-16.3	07:00:00	03-Apr-06
1	07:00:00	04-Apr-06	1.3	07:00:00	04-Apr-06	4.2	07:00:00	04-Apr-06	3.6	07:00:00	04-Apr-06	-23.1	07:00:00	04-Apr-06	-12.1	07:00:00	04-Apr-06
0.8	07:00:00	05-Apr-06	-0.8	07:00:00	05-Apr-06	4.2	07:00:00	05-Apr-06	3.6	07:00:00	05-Apr-06	-23.5	07:00:00	05-Apr-06	-15	07:00:00	05-Apr-06
0.8	07:00:00	06-Apr-06	-0.9	07:00:00	06-Apr-06	4.2	07:00:00	06-Apr-06	3.6	07:00:00	06-Apr-06	-23.9	07:00:00	06-Apr-06	-17.3	07:00:00	06-Apr-06
1.3	07:00:00	07-Apr-06	-1.3	07:00:00	07-Apr-06	4.2	07:00:00	07-Apr-06	3.6	07:00:00	07-Apr-06	-24.7	07:00:00	07-Apr-06	-18.6	07:00:00	07-Apr-06
1.5	07:00:00	08-Apr-06	-2.5	07:00:00	08-Apr-06	4.2	07:00:00	08-Apr-06	3.6	07:00:00	08-Apr-06	-25.4	07:00:00	08-Apr-06	-19.2	07:00:00	08-Apr-06
0.8	07:00:00	09-Apr-06	2.7	07:00:00	09-Apr-06	4.2	07:00:00	09-Apr-06	3.6	07:00:00	09-Apr-06	-27.7	07:00:00	09-Apr-06	-20.6	07:00:00	09-Apr-06
0.8	07:00:00	10-Apr-06	2.7	07:00:00	10-Apr-06	4.2	07:00:00	10-Apr-06	3.6	07:00:00	10-Apr-06	-28.8	07:00:00	10-Apr-06	-21.4	07:00:00	10-Apr-06
0.8	07:00:00	11-Apr-06	0.9	07:00:00	11-Apr-06	4.2	07:00:00	11-Apr-06	3.6	07:00:00	11-Apr-06	-30.2	07:00:00	11-Apr-06	-22.5	07:00:00	11-Apr-06
0.8	07:00:00	12-Apr-06	-2.3	07:00:00	12-Apr-06	4.2	07:00:00	12-Apr-06	3.6	07:00:00	12-Apr-06	-30.5	07:00:00	12-Apr-06	-23.4	07:00:00	12-Apr-06
0.8	07:00:00	13-Apr-06	-3.2	07:00:00	13-Apr-06	4.2	07:00:00	13-Apr-06	3.6	07:00:00	13-Apr-06	-31.5	07:00:00	13-Apr-06	-24.1	07:00:00	13-Apr-06
1	07:00:00	14-Apr-06	3.6	07:00:00	14-Apr-06	4.2	07:00:00	14-Apr-06	3.6	07:00:00	14-Apr-06	-32.3	07:00:00	14-Apr-06	-24.8	07:00:00	14-Apr-06
1	07:00:00	15-Apr-06	3.6	07:00:00	15-Apr-06	4.2	07:00:00	15-Apr-06	3.6	07:00:00	15-Apr-06	-32.6	07:00:00	15-Apr-06	-25.8	07:00:00	15-Apr-06
1	07:00:00	16-Apr-06	3.6	07:00:00	16-Apr-06	4.2	07:00:00	16-Apr-06	3.6	07:00:00	16-Apr-06	-33.2	07:00:00	16-Apr-06	-26.7	07:00:00	16-Apr-06
0.8	07:00:00	17-Apr-06	3.6	07:00:00	17-Apr-06	4.2	07:00:00	17-Apr-06	3.6	07:00:00	17-Apr-06	-33.6	07:00:00	17-Apr-06	-27.6	07:00:00	17-Apr-06
0.6	07:00:00	18-Apr-06	3.6	07:00:00	18-Apr-06	4.2	07:00:00	18-Apr-06	3.6	07:00:00	18-Apr-06	-34	07:00:00	18-Apr-06	-28.9	07:00:00	18-Apr-06
0.8	07:00:00	19-Apr-06	3.6	07:00:00	19-Apr-06	4.2	07:00:00	19-Apr-06	3.6	07:00:00	19-Apr-06	-32.6	07:00:00	19-Apr-06	-29.6	07:00:00	19-Apr-06
1.5	07:00:00	20-Apr-06	3.6	07:00:00	20-Apr-06	4.2	07:00:00	20-Apr-06	3.6	07:00:00	20-Apr-06	-33.2	07:00:00	20-Apr-06	-30	07:00:00	20-Apr-06
1.1	07:00:00	21-Apr-06	3.6	07:00:00	21-Apr-06	4.2	07:00:00	21-Apr-06	3.6	07:00:00	21-Apr-06	-33.8	07:00:00	21-Apr-06	-30.5	07:00:00	21-Apr-06
2.5	07:00:00	22-Apr-06	3.6	07:00:00	22-Apr-06	4.2	07:00:00	22-Apr-06	3.6	07:00:00	22-Apr-06	-11.6	07:00:00	22-Apr-06	-1.5	07:00:00	22-Apr-06
3	07:00:00	23-Apr-06	3.6	07:00:00	23-Apr-06	4.2	07:00:00	23-Apr-06	3.6	07:00:00	23-Apr-06	-13.3	07:00:00	23-Apr-06	-1.6	07:00:00	23-Apr-06
2.1	07:00:00	24-Apr-06	3.6	07:00:00	24-Apr-06	4.2	07:00:00	24-Apr-06	3.6	07:00:00	24-Apr-06	-17.1	07:00:00	24-Apr-06	-3.7	07:00:00	24-Apr-06
1.5	07:00:00	25-Apr-06	3.6	07:00:00	25-Apr-06	4.2	07:00:00	25-Apr-06	3.6	07:00:00	25-Apr-06	-19.7	07:00:00	25-Apr-06	-7.3	07:00:00	25-Apr-06
3.4	07:00:00	26-Apr-06	3.6	07:00:00	26-Apr-06	4.2	07:00:00	26-Apr-06	3.6	07:00:00	26-Apr-06	-1.5	07:00:00	26-Apr-06	0.7	07:00:00	26-Apr-06
4.2	07:00:00	27-Apr-06	3.6	07:00:00	27-Apr-06	4.2	07:00:00	27-Apr-06	3.6	07:00:00	27-Apr-06	1.3	07:00:00	27-Apr-06	2	07:00:00	27-Apr-06
3.8	07:00:00	28-Apr-06	3.6	07:00:00	28-Apr-06	4.2	07:00:00	28-Apr-06	3.6	07:00:00	28-Apr-06	-1.3	07:00:00	28-Apr-06	0.7	07:00:00	28-Apr-06
2.3	07:00:00	29-Apr-06	3.6	07:00:00	29-Apr-06	4.2	07:00:00	29-Apr-06	3.6	07:00:00	29-Apr-06	-11	07:00:00	29-Apr-06	-0.4	07:00:00	29-Apr-06
1.7	07:00:00	30-Apr-06	3.6	07:00:00	30-Apr-06	4.2	07:00:00	30-Apr-06	3.6	07:00:00	30-Apr-06	-14.8	07:00:00	30-Apr-06	-2.6	07:00:00	30-Apr-06

Prepared For:

Ecosystem Enhancement Program

Shepherds Tree Stream and Wetland Restoration
Year 2 of 5

Appendix C1. Data Tables for Hydrologic Data

Date: January 2007
Project No.: 333

Jordan Jones & Goulding, Incorporated

File name

Well 13			Well 14			Well 15			Well 16			Well 17			Well 18		
1.5	07:00:00	01-May-06	3.6	07:00:00	01-May-06	4.2	07:00:00	01-May-06	3.6	07:00:00	01-May-06	-16.5	07:00:00	01-May-06	-4.6	07:00:00	01-May-06
1.1	07:00:00	02-May-06	3.6	07:00:00	02-May-06	4.2	07:00:00	02-May-06	3.6	07:00:00	02-May-06	-18.4	07:00:00	02-May-06	-8.9	07:00:00	02-May-06
1.5	07:00:00	03-May-06	3.6	07:00:00	03-May-06	4.2	07:00:00	03-May-06	3.6	07:00:00	03-May-06	-19.5	07:00:00	03-May-06	-13.1	07:00:00	03-May-06
1.1	07:00:00	04-May-06	3.6	07:00:00	04-May-06	4.2	07:00:00	04-May-06	3.6	07:00:00	04-May-06	-21.1	07:00:00	04-May-06	-16.3	07:00:00	04-May-06
1	07:00:00	05-May-06	3.6	07:00:00	05-May-06	4.2	07:00:00	05-May-06	3.6	07:00:00	05-May-06	-22.4	07:00:00	05-May-06	-18.1	07:00:00	05-May-06
1.1	07:00:00	06-May-06	3.6	07:00:00	06-May-06	4.2	07:00:00	06-May-06	3.6	07:00:00	06-May-06	-22.6	07:00:00	06-May-06	-19.2	07:00:00	06-May-06
1.1	07:00:00	07-May-06	3.6	07:00:00	07-May-06	4.2	07:00:00	07-May-06	3.6	07:00:00	07-May-06	-24.9	07:00:00	07-May-06	-20.6	07:00:00	07-May-06
1.9	07:00:00	08-May-06	3.6	07:00:00	08-May-06	4.2	07:00:00	08-May-06	3.6	07:00:00	08-May-06	-20.9	07:00:00	08-May-06	-3.7	07:00:00	08-May-06
1.7	07:00:00	09-May-06	3.6	07:00:00	09-May-06	4.2	07:00:00	09-May-06	3.6	07:00:00	09-May-06	-22.2	07:00:00	09-May-06	-5.5	07:00:00	09-May-06
1.7	07:00:00	10-May-06	3.6	07:00:00	10-May-06	4.2	07:00:00	10-May-06	3.6	07:00:00	10-May-06	-22.8	07:00:00	10-May-06	-9.9	07:00:00	10-May-06
1.7	07:00:00	11-May-06	3.6	07:00:00	11-May-06	4.2	07:00:00	11-May-06	3.6	07:00:00	11-May-06	-23.1	07:00:00	11-May-06	-12.8	07:00:00	11-May-06
1.1	07:00:00	12-May-06	3.6	07:00:00	12-May-06	4.2	07:00:00	12-May-06	3.6	07:00:00	12-May-06	-25	07:00:00	12-May-06	-15.9	07:00:00	12-May-06
1	07:00:00	13-May-06	3.6	07:00:00	13-May-06	4.2	07:00:00	13-May-06	3.6	07:00:00	13-May-06	-26	07:00:00	13-May-06	-18.3	07:00:00	13-May-06
1	07:00:00	14-May-06	3.6	07:00:00	14-May-06	4.2	07:00:00	14-May-06	3.6	07:00:00	14-May-06	-27.9	07:00:00	14-May-06	-19.9	07:00:00	14-May-06
0.8	07:00:00	15-May-06	3.6	07:00:00	15-May-06	4.2	07:00:00	15-May-06	3.6	07:00:00	15-May-06	-28.8	07:00:00	15-May-06	-21.2	07:00:00	15-May-06
0.6	07:00:00	16-May-06	3.6	07:00:00	16-May-06	4.2	07:00:00	16-May-06	3.6	07:00:00	16-May-06	-30	07:00:00	16-May-06	-22.6	07:00:00	16-May-06
0.8	07:00:00	17-May-06	3.6	07:00:00	17-May-06	4.2	07:00:00	17-May-06	3.6	07:00:00	17-May-06	-31.7	07:00:00	17-May-06	-23.9	07:00:00	17-May-06
0.8	07:00:00	18-May-06	3.6	07:00:00	18-May-06	4.2	07:00:00	18-May-06	3.6	07:00:00	18-May-06	-32.3	07:00:00	18-May-06	-25.2	07:00:00	18-May-06
0.8	07:00:00	19-May-06	3.6	07:00:00	19-May-06	4.2	07:00:00	19-May-06	3.6	07:00:00	19-May-06	-33.2	07:00:00	19-May-06	-26.7	07:00:00	19-May-06
1.1	07:00:00	20-May-06	3.6	07:00:00	20-May-06	4.2	07:00:00	20-May-06	3.6	07:00:00	20-May-06	-34.5	07:00:00	20-May-06	-28.3	07:00:00	20-May-06
1.7	07:00:00	21-May-06	3.6	07:00:00	21-May-06	4.2	07:00:00	21-May-06	3.6	07:00:00	21-May-06	-28.8	07:00:00	21-May-06	-18.1	07:00:00	21-May-06
1.3	07:00:00	22-May-06	3.6	07:00:00	22-May-06	4.2	07:00:00	22-May-06	3.6	07:00:00	22-May-06	-31.9	07:00:00	22-May-06	-21.4	07:00:00	22-May-06
1.1	07:00:00	23-May-06	3.6	07:00:00	23-May-06	4.2	07:00:00	23-May-06	3.6	07:00:00	23-May-06	-33.2	07:00:00	23-May-06	-23.4	07:00:00	23-May-06
1	07:00:00	24-May-06	3.6	07:00:00	24-May-06	4.2	07:00:00	24-May-06	3.6	07:00:00	24-May-06	-34.5	07:00:00	24-May-06	-25.8	07:00:00	24-May-06
1.3	07:00:00	25-May-06	3.6	07:00:00	25-May-06	4.2	07:00:00	25-May-06	3.6	07:00:00	25-May-06	-33.8	07:00:00	25-May-06	-27.4	07:00:00	25-May-06
1	07:00:00	26-May-06	3.6	07:00:00	26-May-06	4.2	07:00:00	26-May-06	3.6	07:00:00	26-May-06	-35.1	07:00:00	26-May-06	-29.6	07:00:00	26-May-06
1.3	07:00:00	27-May-06	3.6	07:00:00	27-May-06	4.2	07:00:00	27-May-06	3.6	07:00:00	27-May-06	-35.5	07:00:00	27-May-06	-30.5	07:00:00	27-May-06
1	07:00:00	28-May-06	3.2	07:00:00	28-May-06	4.2	07:00:00	28-May-06	3.6	07:00:00	28-May-06	-35.7	07:00:00	28-May-06	-31.4	07:00:00	28-May-06
0.8	07:00:00	29-May-06	2.8	07:00:00	29-May-06	4.2	07:00:00	29-May-06	3.6	07:00:00	29-May-06	-35.9	07:00:00	29-May-06	-32.3	07:00:00	29-May-06
0.6	07:00:00	30-May-06	2.8	07:00:00	30-May-06	4.2	07:00:00	30-May-06	3.6	07:00:00	30-May-06	-35.9	07:00:00	30-May-06	-33.6	07:00:00	30-May-06
0.6	07:00:00	31-May-06	2.7	07:00:00	31-May-06	4.2	07:00:00	31-May-06	3.6	07:00:00	31-May-06	-35.9	07:00:00	31-May-06	-34	07:00:00	31-May-06
0.4	07:00:00	01-Jun-06	2.7	07:00:00	01-Jun-06	4.2	07:00:00	01-Jun-06	3.6	07:00:00	01-Jun-06	-35.7	07:00:00	01-Jun-06	-34.2	07:00:00	01-Jun-06
1.1	07:00:00	02-Jun-06	2.5	07:00:00	02-Jun-06	4.2	07:00:00	02-Jun-06	3.6	07:00:00	02-Jun-06	-35.9	07:00:00	02-Jun-06	-34.2	07:00:00	02-Jun-06
4.2	07:00:00	03-Jun-06	3	07:00:00	03-Jun-06	4.2	07:00:00	03-Jun-06	3.6	07:00:00	03-Jun-06	-10.1	07:00:00	03-Jun-06	-4	07:00:00	03-Jun-06
2.8	07:00:00	04-Jun-06	3.6	07:00:00	04-Jun-06	4.2	07:00:00	04-Jun-06	3.6	07:00:00	04-Jun-06	-21.6	07:00:00	04-Jun-06	-16.1	07:00:00	04-Jun-06
1.9	07:00:00	05-Jun-06	2.8	07:00:00	05-Jun-06	4.2	07:00:00	05-Jun-06	3.6	07:00:00	05-Jun-06	-27.1	07:00:00	05-Jun-06	-20.8	07:00:00	05-Jun-06
1.7	07:00:00	06-Jun-06	2.5	07:00:00	06-Jun-06	4.2	07:00:00	06-Jun-06	3.6	07:00:00	06-Jun-06	-30.5	07:00:00	06-Jun-06	-24.3	07:00:00	06-Jun-06
1.3	07:00:00	07-Jun-06	2.5	07:00:00	07-Jun-06	4.2	07:00:00	07-Jun-06	3.6	07:00:00	07-Jun-06	-33.2	07:00:00	07-Jun-06	-27.9	07:00:00	07-Jun-06
1.3	07:00:00	08-Jun-06	2.3	07:00:00	08-Jun-06	4.2	07:00:00	08-Jun-06	3.6	07:00:00	08-Jun-06	-34.9	07:00:00	08-Jun-06	-30.5	07:00:00	08-Jun-06
1.1	07:00:00	09-Jun-06	2.5	07:00:00	09-Jun-06	4.2	07:00:00	09-Jun-06	3.6	07:00:00	09-Jun-06	-35.5	07:00:00	09-Jun-06	-32	07:00:00	09-Jun-06
1.1	07:00:00	10-Jun-06	2.3	07:00:00	10-Jun-06	4.2	07:00:00	10-Jun-06	3.6	07:00:00	10-Jun-06	-35.9	07:00:00	10-Jun-06	-33.2	07:00:00	10-Jun-06
0.8	07:00:00	11-Jun-06	2.5	07:00:00	11-Jun-06	4.2	07:00:00	11-Jun-06	3.6	07:00:00	11-Jun-06	-36.2	07:00:00	11-Jun-06	-34.3	07:00:00	11-Jun-06
2.5	07:00:00	12-Jun-06	2.3	07:00:00	12-Jun-06	4.2	07:00:00	12-Jun-06	3.6	07:00:00	12-Jun-06	-31.5	07:00:00	12-Jun-06	-27.9	07:00:00	12-Jun-06
4.2	07:00:00	13-Jun-06	2.1	07:00:00	13-Jun-06	4.2	07:00:00	13-Jun-06	3.6	07:00:00	13-Jun-06	-12	07:00:00	13-Jun-06	-8.8	07:00:00	13-Jun-06
4	07:00:00	14-Jun-06	1.7	07:00:00	14-Jun-06	4.2	07:00:00	14-Jun-06	3.6	07:00:00	14-Jun-06	-12.5	07:00:00	14-Jun-06	-5.3	07:00:00	14-Jun-06
3.4	07:00:00	15-Jun-06	1.7	07:00:00	15-Jun-06	4.2	07:00:00	15-Jun-06	3.6	07:00:00	15-Jun-06	-15.2	07:00:00	15-Jun-06	-8.9	07:00:00	15-Jun-06
2.7	07:00:00	16-Jun-06	1.5	07:00:00	16-Jun-06	4.2	07:00:00	16-Jun-06	3.6	07:00:00	16-Jun-06	-16.4	07:00:00	16-Jun-06	-8	07:00:00	16-Jun-06
2.5	07:00:00	17-Jun-06	1.3	07:00:00	17-Jun-06	2.5	07:00:00	17-Jun-06	3.6	07:00:00	17-Jun-06	-26.9	07:00:00	17-Jun-06	-20.6	07:00:00	17-Jun-06
2.1	07:00:00	18-Jun-06	2.1	07:00:00	18-Jun-06	2.1	07:00:00	18-Jun-06	3.6	07:00:00	18-Jun-06	-30.2	07:00:00	18-Jun-06	-24.5	07:00:00	18-Jun-06
1.9	07:00:00	19-Jun-06	-1.1	07:00:00	19-Jun-06	1.9	07:00:00	19-Jun-06	3.6	07:00:00	19-Jun-06	-32.3	07:00:00	19-Jun-06	-27.8	07:00:00	19-Jun-06
1.7	07:00:00	20-Jun-06	-1.9	07:00:00	20-Jun-06	1.7	07:00:00	20-Jun-06	3.6	07:00:00	20-Jun-06	-34.3	07:00:00	20-Jun-06	-29.8	07:00:00	20-Jun-06
1.5	07:00:00	21-Jun-06	-0.4	07:00:00	21-Jun-06	1.5	07:00:00	21-Jun-06	3.6	07:00:00	21-Jun-06	-36.1	07:00:00	21-Jun-06	-31.4	07:00:00	21-Jun-06
1.3	07:00:00	22-Jun-06	1.5	07:00:00	22-Jun-06	1.3	07:00:00	22-Jun-06	3.6	07:00:00	22-Jun-06	-36.2	07:00:00	22-Jun-06	-32.9	07:00:00	22-Jun-06
1.1	07:00:00	23-Jun-06	-0.6	07:00:00	23-Jun-06	1.1	07:00:00	23-Jun-06	3.6	07:00:00	23-Jun-06	-36.2	07:00:00	23-Jun-06	-34.2	07:00:00	23-Jun-06
4.2	07:00:00	24-Jun-06	-1.3	07:00:00	24-Jun-06	4.2	07:00:00	24-Jun-06	3.6	07:00:00	24-Jun-06	-1.3	07:00:00	24-Jun-06	1.5	07:00:00	24-Jun-06
4.2	07:00:00	25-Jun-06	1.1	07:00:00	25-Jun-06	4.2	07:00:00	25-Jun-06	3.6	07:00:00	25-Jun-06	-13.5	07:00:00	25-Jun-06	-0.4	07:00:00	25-Jun-06
4	07:00:00	26-Jun-06	3.2	07:00:00	26-Jun-06	4	07:00:00	26-Jun-06	3.6	07:00:00	26-Jun-06	-12	07:00:00	26-Jun-06	1.5	07:00:00	26-Jun-06
4.2	07:00:00	27-Jun-06	2.7	07:00:00	27-Jun-06	4.2	07:00:00	27-Jun-06	3.6	07:00:00	27-Jun-06	2.3	07:00:00	27-Jun-06	2.4	07:00:00	27-Jun-06
4.2	07:00:00	28-Jun-06	1.5	07:00:00	28-Jun-06	4.2	07:00:00	28-Jun-06	3.6	07:00:00	28-Jun-06	1.3	07:00:00	28-Jun-06	1.5	07:00:00	28-Jun-06
4.2	07:00:00	29-Jun-06	3.6	07:00:00	29-Jun-06	4.2	07:00:00	29-Jun-06	3.6	07:00:00	29-Jun-06	-8.9	07:00:00	29-Jun-06	0.5	07:00:00	29-Jun-06
3.2	07:00:00	30-Jun-06	3.6	07:00:00	30-Jun-06	3.2	07:00:00	30-Jun-06	3.6	07:00:00	30-Jun-06	-15	07:00:00	30-Jun-06	-2.6	07:00:00	30-Jun-06

Prepared For:

Ecosystem Enhancement Program

Shepherds Tree Stream and Wetland Restoration
Year 2 of 5

Appendix C1. Data Tables for Hydrological Data

Date: January 2007
Project No.: 333

Jordan Jones & Boulding Incorporated

File name

Date	Time	Well 13	Well 14	Well 15	Well 16	Well 17	Well 18
01-Jul-06	07:00:00	2.8	2.3	2.8	3.6	-18.8	-10.6
02-Jul-06	07:00:00	2.8	1.9	2.8	3.6	-22.2	-15.3
03-Jul-06	07:00:00	2.7	2.1	2.7	3.6	-25.8	-19
04-Jul-06	07:00:00	2.7	3.4	2.7	3.6	-29.4	-21.5
05-Jul-06	07:00:00	2.5	3.6	2.5	3.6	-31.1	-24.7
06-Jul-06	07:00:00	3	3.6	3	3.6	-32.4	-3.5
07-Jul-06	07:00:00	3.6	1.1	3.6	3.6	-17.5	-3.5
08-Jul-06	07:00:00	2.8	0.6	2.8	3.6	-21.4	-12.1
09-Jul-06	07:00:00	2.5	0.9	2.5	3.6	-23.9	-16.8
10-Jul-06	07:00:00	2.5	3.6	2.5	3.6	-26.6	-19.4
11-Jul-06	07:00:00	2.3	3.6	2.3	3.6	-30.2	-22.3
12-Jul-06	07:00:00	2.5	3.2	2.5	3.6	-32.6	-25
13-Jul-06	07:00:00	2.3	1.7	2.3	3.6	-34.2	-28.1
14-Jul-06	07:00:00	2.5	0.6	2.5	3.6	-35.1	-29.6
15-Jul-06	07:00:00	2.3	-0.2	2.3	3.6	-35.7	-30.9
16-Jul-06	07:00:00	2.1	1.1	2.1	3.6	-35.9	-31.8
17-Jul-06	07:00:00	1.7	3.6	1.7	3.6	-35.5	-33.2
18-Jul-06	07:00:00	1.7	3.6	1.7	3.6	-35.5	-33.8
20-Jul-06	07:00:00	1.5	2.3	1.2	3.6	-35.5	-33.8
21-Jul-06	07:00:00	1.3	3.6	1.8	3.6	-35.7	-34
22-Jul-06	07:00:00	2.1	3.2	2.1	3.6	-35.5	-33.6
23-Jul-06	07:00:00	2.7	2.3	2.9	3.6	-35.3	-33.6
24-Jul-06	07:00:00	2.5	2.3	3	3.6	-35.1	-33.6
25-Jul-06	07:00:00	2.3	3.6	3.1	3.6	-35.1	-33.8
26-Jul-06	07:00:00	2.7	3.2	3.2	3.6	-35.1	-33.6
27-Jul-06	07:00:00	2.3	3.2	3.3	3.6	-35.1	-33.8
28-Jul-06	07:00:00	2.5	3.2	3.3	3.6	-35.3	-33.6
29-Jul-06	07:00:00	2.3	3.2	3.3	3.6	-35.5	-34
30-Jul-06	07:00:00	2.3	3.2	3.3	3.6	-35.3	-34
31-Jul-06	07:00:00	2.3	3.2	3.3	3.6	-35.3	-33.8
1-Aug-06	07:00:00	2.1	3.2	3.4	3.6	-35.3	-33.8
2-Aug-06	07:00:00	1.7	3.2	3.4	3.6	-35.5	-34
3-Aug-06	07:00:00	1.7	3.2	3.3	3.6	-35.3	-34.3
4-Aug-06	07:00:00	1.5	3.2	3	3.6	-35.3	-34.3
5-Aug-06	07:00:00	1.3	3.2	2.6	3.6	-35.3	-34.5
6-Aug-06	07:00:00	1.1	3.2	2.5	3.6	-34.9	-34.3
7-Aug-06	07:00:00	1	3.2	2.5	3.6	-35.1	-34.3
8-Aug-06	07:00:00	1	3.2	2.4	3.6	-35.1	-34.5
9-Aug-06	07:00:00	0.6	3.2	2.2	3.6	-34.9	-34.3
10-Aug-06	07:00:00	0.6	3.2	2.6	3.6	-34.9	-34.2
11-Aug-06	07:00:00	2.1	3.2	2.9	3.6	-34.9	-34.5
12-Aug-06	07:00:00	1.7	3.2	3	3.6	-34.9	-34.5
13-Aug-06	07:00:00	2.1	3.2	3.6	3.6	-34.7	-34.2
14-Aug-06	07:00:00	2.8	3.2	4	3.6	-34.9	-34.5
15-Aug-06	07:00:00	2.5	3.2	4.1	3.6	-35.1	-34.5
16-Aug-06	07:00:00	3	3.2	4.1	3.6	-35.1	-34.5
17-Aug-06	07:00:00	3	3.2	4.1	3.6	-35.5	-34.7
18-Aug-06	07:00:00	2.5	3.2	3.9	3.6	-35.3	-34.5
19-Aug-06	07:00:00	2.3	3.2	3.9	3.6	-35.3	-34.7
20-Aug-06	07:00:00	2.3	3.2	4	3.6	-35.5	-34.7
21-Aug-06	07:00:00	2.1	3.2	4	3.6	-35.5	-34.7
22-Aug-06	07:00:00	1.9	3.2	4.1	3.6	-35.7	-34.9
23-Aug-06	07:00:00	2.8	3.2	4	3.6	-35.3	-34.7
24-Aug-06	07:00:00	2.5	3.2	3.9	3.6	-35.5	-35.1
25-Aug-06	07:00:00	2.1	3.2	3.8	3.6	-35.5	-34.9
26-Aug-06	07:00:00	1.5	3.2	3.9	3.6	-35.5	-34.7
27-Aug-06	07:00:00	1.3	3.2	3.8	3.6	-35.5	-34.7
28-Aug-06	07:00:00	1.1	3.2	3.5	3.6	-35.7	-34.7
29-Aug-06	07:00:00	1	3.2	3.3	3.6	-35.7	-34.9
30-Aug-06	07:00:00	1	3.2	3.5	3.6	-35.9	-34.9
31-Aug-06	07:00:00	0.6	3.2	3.5	3.6	-35.9	-35.1
1-Sep-06	07:00:00	2.1	3.2	3.7	3.6	-35.5	-34.9
2-Sep-06	07:00:00	2.7	3.2	4	3.6	-35.5	-34.7
3-Sep-06	07:00:00	2.5	3.2	4.1	3.6	-35.7	-34.9
4-Sep-06	07:00:00	3	3.2	4.1	3.6	-35.7	-34.7
5-Sep-06	07:00:00	3.2	3.2	4.2	3.6	-35.7	-34.9
6-Sep-06	07:00:00	3	3.2	4.2	3.6	-35.7	-34.7
7-Sep-06	07:00:00	3	3.2	4.2	3.6	-35.7	-34.9
8-Sep-06	07:00:00	2.8	3.2	4.2	3.6	-35.7	-34.9
9-Sep-06	07:00:00	2.8	3.2	4.2	3.6	-36.1	-34.9
10-Sep-06	07:00:00	2.5	3.2	4.2	3.6	-35.9	-34.9
11-Sep-06	07:00:00	2.3	3.2	4.2	3.6	-35.9	-34.9
12-Sep-06	07:00:00	2.7	3.2	4.2	3.6	-35.9	-34.9
13-Sep-06	07:00:00	2.7	3.2	4.2	3.6	-35.9	-35.1
14-Sep-06	07:00:00	2.8	3.2	4.2	3.6	-35.7	-34.9
15-Sep-06	07:00:00	4.2	3.2	4.2	3.6	0.8	0.7
16-Sep-06	07:00:00	4.2	3.2	4.2	3.6	-10.6	-3.8
17-Sep-06	07:00:00	4	3.2	4.2	3.6	-18.6	-12.6
18-Sep-06	07:00:00	4	3.2	5.2	3.6	-25.2	-18.1
19-Sep-06	07:00:00	3.6	3.2	5.3	3.6	-31.1	-20.8
20-Sep-06	07:00:00	4.2	3.2	5.2	3.6	-32.8	-24.1
21-Sep-06	07:00:00	3.6	3.2	5.1	3.6	-34.7	-27.6
22-Sep-06	07:00:00	3.4	3.2	5.1	3.6	-35.9	-29.4
23-Sep-06	07:00:00	3.8	3.2	5.5	3.6	-35.9	-29.8
24-Sep-06	07:00:00	4.2	3.2	5.4	3.6	-35.9	-30.3
25-Sep-06	07:00:00	4.2	3.2	5.5	3.6	-35.7	-30.7
26-Sep-06	07:00:00	4	3.2	5.4	3.6	-35.7	-31.2
27-Sep-06	07:00:00	3.6	3.2	5.3	3.6	-35.7	-31.8
28-Sep-06	07:00:00	3.4	3.2	5.2	3.6	-35.7	-32.1
29-Sep-06	07:00:00	3.4	3.2	5.1	3.6	-35.9	-32.5
30-Sep-06	07:00:00	3.2	3.2	5	3.6	-35.7	-33.1
1-Oct-06	07:00:00	3.2	3.2	5	3.6	-36.1	-33.8
2-Oct-06	07:00:00	3.4	3.2	5	3.6	-35.9	-34.2
3-Oct-06	07:00:00	3	3.2	4.8	3.6	-36.1	-34.3
4-Oct-06	07:00:00	3	3.2	4.7	3.6	-36.1	-34.3
5-Oct-06	07:00:00	3	3.2	4.6	3.6	-36.1	-34.3
6-Oct-06	07:00:00	3	3.2	4.8	3.6	-36.1	-34.3
7-Oct-06	07:00:00	4.2	3.2	4.6	3.6	-35.7	-34
8-Oct-06	07:00:00	3	3.2	4.6	3.6	-36.1	-34.3
9-Oct-06	07:00:00	3.2	3.2	4.6	3.6	-35.9	-34.3
10-Oct-06	07:00:00	3.2	3.2	4.8	3.6	-35.9	-34.3
11-Oct-06	07:00:00	3	3.2	5	3.6	-36.1	-34.5
12-Oct-06	07:00:00	3.2	3.2	5.1	3.6	-36.1	-34.5
13-Oct-06	07:00:00	3.2	3.2	4.7	3.6	-35.9	-34.3
14-Oct-06	07:00:00	3	3.2	4.4	3.6	-36.1	-34.5
15-Oct-06	07:00:00	2.7	3.2	4.2	3.6	-36.2	-34.7
16-Oct-06	07:00:00	2.5	3.2	4.2	3.6	-36.2	-34.9
17-Oct-06	07:00:00	2.8	3.2	4.4	3.6	-36.2	-34.9
18-Oct-06	07:00:00	3.2	3.2	4.7	3.6	-36.1	-34.7
19-Oct-06	07:00:00	4.2	3.2	5	3.6	0.6	-2
20-Oct-06	07:00:00	4.2	3.2	5	3.6	-7.6	-6.9
21-Oct-06	07:00:00	4.2	3.2	4.7	3.6	-1.3	-2.6
22-Oct-06	07:00:00	4.2	3.2	4.4	3.6	-12.1	-11.1
23-Oct-06	07:00:00	4.2	3.2	4.4	3.6	-16.9	-17.3
24-Oct-06	07:00:00	4.2	3.2	4.3	3.6	-14.8	-17
25-Oct-06	07:00:00	4.2	3.2	4.2	3.6	-19.2	-20.3
26-Oct-06	07:00:00	4.2	3.2	3.2	3.6	-22.8	-22.8
27-Oct-06	07:00:00	2.3	3.2	3.1	3.6	-26.2	-25.4
28-Oct-06	07:00:00	2.7	3.2	4.5	3.6	-28.8	-27.4
29-Oct-06	07:00:00	4.2	3.2	2	3.6	2.5	0.5
30-Oct-06	07:00:00	3.2	3.2	1	3.6	-4.6	-2.9
31-Oct-06	07:00:00	2.7	3.2	0.8	3.6	-10.6	-4.7

Prepared For:

Ecosystem Enhancement Program

Shepherds Tree Stream and Wetland Restoration
Year 2 of 5

Appendix C1. Data Tables for Hydrologic Data

Date: January 2007

Project No.: 333

Jordan Jones & Goulding Incorporated

File name

Well 13			Well 14			Well 15			Well 16			Well 17			Well 18		
2.5	07:00:00	1-Nov-06	3.2	07:00:00	1-Nov-06	1.2	07:00:00	1-Nov-06	3.6	07:00:00	1-Nov-06	-14	07:00:00	1-Nov-06	-8	07:00:00	1-Nov-06
2.7	07:00:00	2-Nov-06	3.2	07:00:00	2-Nov-06	2.4	07:00:00	2-Nov-06	3.6	07:00:00	2-Nov-06	-16.9	07:00:00	2-Nov-06	-13	07:00:00	2-Nov-06
3	07:00:00	3-Nov-06	3.2	07:00:00	3-Nov-06	-2.7	07:00:00	3-Nov-06	3.6	07:00:00	3-Nov-06	-18.4	07:00:00	3-Nov-06	-16.1	07:00:00	3-Nov-06
1.7	07:00:00	4-Nov-06	3.2	07:00:00	4-Nov-06	-6.1	07:00:00	4-Nov-06	3.6	07:00:00	4-Nov-06	-21.4	07:00:00	4-Nov-06	-19.5	07:00:00	4-Nov-06
1.3	07:00:00	5-Nov-06	3.2	07:00:00	5-Nov-06	-7.6	07:00:00	5-Nov-06	3.6	07:00:00	5-Nov-06	-23.3	07:00:00	5-Nov-06	-21.4	07:00:00	5-Nov-06
1.1	07:00:00	6-Nov-06	3.2	07:00:00	6-Nov-06	-2.4	07:00:00	6-Nov-06	3.6	07:00:00	6-Nov-06	-25.4	07:00:00	6-Nov-06	-23.2	07:00:00	6-Nov-06
1	07:00:00	7-Nov-06	3.2	07:00:00	7-Nov-06	0	07:00:00	7-Nov-06	3.6	07:00:00	7-Nov-06	-26.9	07:00:00	7-Nov-06	-24.8	07:00:00	7-Nov-06
1.5	07:00:00	8-Nov-06	3.2	07:00:00	8-Nov-06	3.7	07:00:00	8-Nov-06	3.6	07:00:00	8-Nov-06	-27.7	07:00:00	8-Nov-06	-25.2	07:00:00	8-Nov-06
4.2	07:00:00	9-Nov-06	3.2	07:00:00	9-Nov-06	0.9	07:00:00	9-Nov-06	3.6	07:00:00	9-Nov-06	2.3	07:00:00	9-Nov-06	0.7	07:00:00	9-Nov-06
2.8	07:00:00	10-Nov-06	3.2	07:00:00	10-Nov-06	-2.5	07:00:00	10-Nov-06	3.6	07:00:00	10-Nov-06	-0.9	07:00:00	10-Nov-06	-0.2	07:00:00	10-Nov-06
2.1	07:00:00	11-Nov-06	3.2	07:00:00	11-Nov-06	-2.4	07:00:00	11-Nov-06	3.6	07:00:00	11-Nov-06	-7	07:00:00	11-Nov-06	-1.5	07:00:00	11-Nov-06
1.9	07:00:00	12-Nov-06	3.2	07:00:00	12-Nov-06	1.9	07:00:00	12-Nov-06	3.6	07:00:00	12-Nov-06	-11.2	07:00:00	12-Nov-06	-2.4	07:00:00	12-Nov-06
2.5	07:00:00	13-Nov-06	3.2	07:00:00	13-Nov-06	-1.6	07:00:00	13-Nov-06	3.6	07:00:00	13-Nov-06	2.1	07:00:00	13-Nov-06	0.5	07:00:00	13-Nov-06
2.3	07:00:00	14-Nov-06	3.2	07:00:00	14-Nov-06	-2.2	07:00:00	14-Nov-06	3.6	07:00:00	14-Nov-06	-2.1	07:00:00	14-Nov-06	-0.4	07:00:00	14-Nov-06
1.9	07:00:00	15-Nov-06	3.2	07:00:00	15-Nov-06	-2.5	07:00:00	15-Nov-06	3.6	07:00:00	15-Nov-06	-7	07:00:00	15-Nov-06	-1.1	07:00:00	15-Nov-06
2.1	07:00:00	16-Nov-06	3.2	07:00:00	16-Nov-06	3.7	07:00:00	16-Nov-06	3.6	07:00:00	16-Nov-06	-11	07:00:00	16-Nov-06	-2	07:00:00	16-Nov-06
4.2	07:00:00	17-Nov-06	3.2	07:00:00	17-Nov-06	3.2	07:00:00	17-Nov-06	3.6	07:00:00	17-Nov-06	3.6	07:00:00	17-Nov-06	2.2	07:00:00	17-Nov-06
4.2	07:00:00	18-Nov-06	3.2	07:00:00	18-Nov-06	4.2	07:00:00	18-Nov-06	3.6	07:00:00	18-Nov-06	0.9	07:00:00	18-Nov-06	0	07:00:00	18-Nov-06
1.9	07:00:00	19-Nov-06	3.2	07:00:00	19-Nov-06	4.2	07:00:00	19-Nov-06	3.6	07:00:00	19-Nov-06	-2.5	07:00:00	19-Nov-06	-0.4	07:00:00	19-Nov-06
1.5	07:00:00	20-Nov-06	3.2	07:00:00	20-Nov-06	4.2	07:00:00	20-Nov-06	3.6	07:00:00	20-Nov-06	-7.2	07:00:00	20-Nov-06	-1.1	07:00:00	20-Nov-06
1.7	07:00:00	21-Nov-06	3.2	07:00:00	21-Nov-06	4.2	07:00:00	21-Nov-06	3.6	07:00:00	21-Nov-06	-10.4	07:00:00	21-Nov-06	-1.6	07:00:00	21-Nov-06
1.3	07:00:00	22-Nov-06	3.2	07:00:00	22-Nov-06	4.2	07:00:00	22-Nov-06	3.6	07:00:00	22-Nov-06	-13.5	07:00:00	22-Nov-06	-3.1	07:00:00	22-Nov-06
4	07:00:00	23-Nov-06	3.2	07:00:00	23-Nov-06	4.2	07:00:00	23-Nov-06	3.6	07:00:00	23-Nov-06	2.7	07:00:00	23-Nov-06	0.9	07:00:00	23-Nov-06
4	07:00:00	24-Nov-06	3.2	07:00:00	24-Nov-06	4.2	07:00:00	24-Nov-06	3.6	07:00:00	24-Nov-06	2.1	07:00:00	24-Nov-06	0.5	07:00:00	24-Nov-06
1.9	07:00:00	25-Nov-06	3.2	07:00:00	25-Nov-06	4.2	07:00:00	25-Nov-06	3.6	07:00:00	25-Nov-06	-1.1	07:00:00	25-Nov-06	-0.2	07:00:00	25-Nov-06
1.7	07:00:00	26-Nov-06	3.2	07:00:00	26-Nov-06	2.3	07:00:00	26-Nov-06	3.6	07:00:00	26-Nov-06	-6.1	07:00:00	26-Nov-06	-0.9	07:00:00	26-Nov-06
1.7	07:00:00	27-Nov-06	3.2	07:00:00	27-Nov-06	2.7	07:00:00	27-Nov-06	3.6	07:00:00	27-Nov-06	-9.9	07:00:00	27-Nov-06	-1.6	07:00:00	27-Nov-06
1.5	07:00:00	28-Nov-06	3.2	07:00:00	28-Nov-06	4.2	07:00:00	28-Nov-06	3.6	07:00:00	28-Nov-06	-12.5	07:00:00	28-Nov-06	-2.6	07:00:00	28-Nov-06
1.7	07:00:00	29-Nov-06	3.2	07:00:00	29-Nov-06	3.2	07:00:00	29-Nov-06	3.6	07:00:00	29-Nov-06	-14	07:00:00	29-Nov-06	-3.3	07:00:00	29-Nov-06
2.8	07:00:00	30-Nov-06	3.2	07:00:00	30-Nov-06	2.7	07:00:00	30-Nov-06	3.6	07:00:00	30-Nov-06	-15	07:00:00	30-Nov-06	-3.8	07:00:00	30-Nov-06
3.2	07:00:00	01-Dec-06	3.2	07:00:00	01-Dec-06	2.5	07:00:00	01-Dec-06	3.6	07:00:00	01-Dec-06	-15.7	07:00:00	01-Dec-06	-4	07:00:00	01-Dec-06
2.5	07:00:00	02-Dec-06	3.2	07:00:00	02-Dec-06	2.7	07:00:00	02-Dec-06	3.6	07:00:00	02-Dec-06	-15.2	07:00:00	02-Dec-06	-3.5	07:00:00	02-Dec-06
1.3	07:00:00	03-Dec-06	3.2	07:00:00	03-Dec-06	3	07:00:00	03-Dec-06	3.6	07:00:00	03-Dec-06	-17.6	07:00:00	03-Dec-06	-5.5	07:00:00	03-Dec-06
1.5	07:00:00	04-Dec-06	3.2	07:00:00	04-Dec-06	1.7	07:00:00	04-Dec-06	3.6	07:00:00	04-Dec-06	-19.2	07:00:00	04-Dec-06	-8	07:00:00	04-Dec-06
1.3	07:00:00	05-Dec-06	3.2	07:00:00	05-Dec-06	1.3	07:00:00	05-Dec-06	3.6	07:00:00	05-Dec-06	-19.9	07:00:00	05-Dec-06	-10.2	07:00:00	05-Dec-06
1	07:00:00	06-Dec-06	3.2	07:00:00	06-Dec-06	1.1	07:00:00	06-Dec-06	3.6	07:00:00	06-Dec-06	-21.4	07:00:00	06-Dec-06	-13.7	07:00:00	06-Dec-06
1	07:00:00	07-Dec-06	3.2	07:00:00	07-Dec-06	1	07:00:00	07-Dec-06	3.6	07:00:00	07-Dec-06	-22.6	07:00:00	07-Dec-06	-16.3	07:00:00	07-Dec-06
1.3	07:00:00	08-Dec-06	3.2	07:00:00	08-Dec-06	1.5	07:00:00	08-Dec-06	3.6	07:00:00	08-Dec-06	-22.8	07:00:00	08-Dec-06	-17.2	07:00:00	08-Dec-06
0.8	07:00:00	09-Dec-06	3.2	07:00:00	09-Dec-06	4.2	07:00:00	09-Dec-06	3.6	07:00:00	09-Dec-06	-25.2	07:00:00	09-Dec-06	-19.4	07:00:00	09-Dec-06
0.2	07:00:00	10-Dec-06	3.2	07:00:00	10-Dec-06	2.8	07:00:00	10-Dec-06	3.6	07:00:00	10-Dec-06	-26.2	07:00:00	10-Dec-06	-20.6	07:00:00	10-Dec-06
0.4	07:00:00	11-Dec-06	3.2	07:00:00	11-Dec-06	2.1	07:00:00	11-Dec-06	3.6	07:00:00	11-Dec-06	-27.3	07:00:00	11-Dec-06	-21.7	07:00:00	11-Dec-06
0.6	07:00:00	12-Dec-06	3.2	07:00:00	12-Dec-06	1.9	07:00:00	12-Dec-06	3.6	07:00:00	12-Dec-06	-28.5	07:00:00	12-Dec-06	-22.8	07:00:00	12-Dec-06
0.6	07:00:00	13-Dec-06	3.2	07:00:00	13-Dec-06	2.5	07:00:00	13-Dec-06	3.6	07:00:00	13-Dec-06	-30.2	07:00:00	13-Dec-06	-23.9	07:00:00	13-Dec-06
1.1	07:00:00	14-Dec-06	3.2	07:00:00	14-Dec-06	2.3	07:00:00	14-Dec-06	3.6	07:00:00	14-Dec-06	-30.5	07:00:00	14-Dec-06	-24.5	07:00:00	14-Dec-06
1.3	07:00:00	15-Dec-06	3.2	07:00:00	15-Dec-06	1.9	07:00:00	15-Dec-06	3.6	07:00:00	15-Dec-06	-31.5	07:00:00	15-Dec-06	-25.6	07:00:00	15-Dec-06
1.7	07:00:00	16-Dec-06	3.2	07:00:00	16-Dec-06	2.1	07:00:00	16-Dec-06	3.6	07:00:00	16-Dec-06	-31.7	07:00:00	16-Dec-06	-25.9	07:00:00	16-Dec-06
1.3	07:00:00	17-Dec-06	3.2	07:00:00	17-Dec-06	4.2	07:00:00	17-Dec-06	3.6	07:00:00	17-Dec-06	-33.4	07:00:00	17-Dec-06	-27.2	07:00:00	17-Dec-06
1.1	07:00:00	18-Dec-06	3.2	07:00:00	18-Dec-06	4.2	07:00:00	18-Dec-06	3.6	07:00:00	18-Dec-06	-34.9	07:00:00	18-Dec-06	-28.5	07:00:00	18-Dec-06
1.3	07:00:00	19-Dec-06	3.2	07:00:00	19-Dec-06	1.9	07:00:00	19-Dec-06	3.6	07:00:00	19-Dec-06	-36.2	07:00:00	19-Dec-06	-29	07:00:00	19-Dec-06

Surface Gauge 1	
6/21/2006	-41.5
6/22/2006	-42
6/23/2006	-42
6/24/2006	-42
6/25/2006	-42
6/26/2006	-42
6/27/2006	-42
6/28/2006	-41.9
6/28/2006	-41.9
6/29/2006	-41.9
6/30/2006	-41.9
7/1/2006	-41.9
7/2/2006	-41.9
7/3/2006	-41.9
7/4/2006	-41.9
7/5/2006	-41.9
7/6/2006	-41.9
7/7/2006	-41.9
7/8/2006	-41.9
7/9/2006	-41.9
7/10/2006	-41.9
7/11/2006	-41.9
7/12/2006	-41.9
7/13/2006	-41.9
7/14/2006	-41.9
7/15/2006	-41.9
7/16/2006	-41.9
7/17/2006	-41.9
7/18/2006	-41.9
7/19/2006	-41.9
7/20/2006	-34.7
7/21/2006	-33.8
7/22/2006	-33.7
7/23/2006	-34
7/24/2006	-34.2
7/25/2006	-34.3
7/26/2006	-34.4
7/27/2006	-34.5
7/28/2006	-35.8
7/29/2006	-37.9
7/30/2006	-36.8
7/31/2006	-36.7
8/1/2006	-36.7
8/2/2006	-36.6
8/3/2006	-36.5
8/4/2006	-36.8
8/5/2006	-35.3
8/6/2006	-36.4
8/7/2006	-36.5
8/8/2006	-37.8
8/9/2006	-38
8/10/2006	-37.9
8/11/2006	-38.3
8/12/2006	-37.6
8/13/2006	-37.8
8/14/2006	-38.5
8/15/2006	-38.5
8/16/2006	-38.7
8/17/2006	-39.5
8/18/2006	-40.4
8/19/2006	-40.9
8/20/2006	-40.7
8/21/2006	-40.7
8/22/2006	-40.7
8/23/2006	-40
8/24/2006	-40.5
8/25/2006	-40.9
8/26/2006	-40.2
8/27/2006	-40.3
8/28/2006	-40.4
8/29/2006	-40.4
8/30/2006	-40.4
8/31/2006	-36.4

Surface Gauge 2	
6/21/2006	0.2
6/22/2006	0.4
6/23/2006	1.7
6/24/2006	0.2
6/25/2006	0
6/26/2006	0
6/27/2006	-0.2
6/28/2006	-0.2
6/28/2006	1.5
6/29/2006	0.2
6/30/2006	0
7/1/2006	0.2
7/2/2006	0
7/3/2006	0.2
7/4/2006	1.7
7/5/2006	2.3
7/6/2006	3.2
7/7/2006	3.2
7/8/2006	3.2
7/9/2006	3.2
7/10/2006	3.2
7/11/2006	3.2
7/12/2006	3.2
7/13/2006	3
7/14/2006	2.8
7/15/2006	3.2
7/16/2006	3.2
7/17/2006	2.6
7/18/2006	2.5
7/19/2006	2.6
7/20/2006	2.6
7/21/2006	3.2
7/22/2006	3.2
7/23/2006	3.2
7/24/2006	3.2
7/25/2006	3.2
7/26/2006	3.2
7/27/2006	3.2
7/28/2006	3.2
7/29/2006	3.2
7/30/2006	3.2
7/31/2006	3.2
8/1/2006	3.2
8/2/2006	3.2
8/3/2006	3.2
8/4/2006	3.2
8/5/2006	3.2
8/6/2006	2.3
8/7/2006	2.5
8/8/2006	3.2
8/9/2006	3.2
8/10/2006	3.2
8/11/2006	3.2
8/12/2006	3.2
8/13/2006	3.2
8/14/2006	3.2
8/15/2006	3.2
8/16/2006	3.2
8/17/2006	2.6
8/18/2006	1.9
8/19/2006	1.1
8/20/2006	1.1
8/21/2006	2.1
8/22/2006	1.1
8/23/2006	1.7
8/24/2006	0.9
8/25/2006	0.8
8/26/2006	0
8/27/2006	0.8
8/28/2006	1.5
8/29/2006	1.7
8/30/2006	2.5
8/31/2006	3.2

Surface Gauge 3	
6/21/2006	NA
6/22/2006	NA
6/23/2006	NA
6/24/2006	NA
6/25/2006	NA
6/26/2006	NA
6/27/2006	NA
6/28/2006	NA
6/28/2006	NA
6/29/2006	NA
6/30/2006	NA
7/1/2006	NA
7/2/2006	NA
7/3/2006	NA
7/4/2006	NA
7/5/2006	NA
7/6/2006	NA
7/7/2006	NA
7/8/2006	NA
7/9/2006	NA
7/10/2006	NA
7/11/2006	NA
7/12/2006	NA
7/13/2006	NA
7/14/2006	NA
7/15/2006	NA
7/16/2006	NA
7/17/2006	NA
7/18/2006	NA
7/19/2006	NA
7/20/2006	NA
7/21/2006	NA
7/22/2006	NA
7/23/2006	NA
7/24/2006	NA
7/25/2006	NA
7/26/2006	NA
7/27/2006	NA
7/28/2006	NA
7/29/2006	NA
7/30/2006	NA
7/31/2006	NA
8/1/2006	NA
8/2/2006	NA
8/3/2006	NA
8/4/2006	NA
8/5/2006	NA
8/6/2006	NA
8/7/2006	NA
8/8/2006	NA
8/9/2006	NA
8/10/2006	NA
8/11/2006	NA
8/12/2006	NA
8/13/2006	NA
8/14/2006	NA
8/15/2006	NA
8/16/2006	NA
8/17/2006	NA
8/18/2006	NA
8/19/2006	NA
8/20/2006	NA
8/21/2006	NA
8/22/2006	NA
8/23/2006	NA
8/24/2006	NA
8/25/2006	NA
8/26/2006	NA
8/27/2006	NA
8/28/2006	NA
8/29/2006	NA
8/30/2006	NA
8/31/2006	NA

Well 9 = SFC G	
6/21/2006	-41.8
6/22/2006	-41.8
6/23/2006	-41.8
6/24/2006	-41.9
6/25/2006	-41.9
6/26/2006	-41.9
6/27/2006	-41.8
6/28/2006	-41.9
6/29/2006	-41.8
6/30/2006	-41.8
7/1/2006	-41.8
7/2/2006	-41.8
7/3/2006	-41.8
7/4/2006	-41.8
7/5/2006	-41.8
7/6/2006	-41.8
7/7/2006	-41.8
7/8/2006	-41.8
7/9/2006	-41.8
7/10/2006	-41.8
7/11/2006	-41.8
7/12/2006	-41.8
7/13/2006	-41.8
7/14/2006	-41.8
7/15/2006	-41.8
7/16/2006	-41.8
7/17/2006	-41.8
7/18/2006	-41.8
7/19/2006	-3.3
7/20/2006	-3.3
7/21/2006	-2.5
7/22/2006	-2.1
7/23/2006	-1.6
7/24/2006	-1.6
7/25/2006	-1.5
7/26/2006	-1.4
7/27/2006	-1.3
7/28/2006	-1.3
7/29/2006	-1.3
7/30/2006	-1.3
7/31/2006	-1.2
8/1/2006	-1.3
8/2/2006	-1.4
8/3/2006	-1.6
8/4/2006	-1.8
8/5/2006	-2
8/6/2006	-2
8/7/2006	-2.1
8/8/2006	-2
8/9/2006	-2.4
8/10/2006	-1.9
8/11/2006	-1.5
8/12/2006	-1.3
8/13/2006	-0.9
8/14/2006	-0.6
8/15/2006	-0.5
8/16/2006	-0.5
8/17/2006	-0.5
8/18/2006	-0.7
8/19/2006	-0.6
8/20/2006	-0.5
8/21/2006	-0.6
8/22/2006	-0.5
8/23/2006	-0.5
8/24/2006	-0.6
8/25/2006	-0.6
8/26/2006	-0.9
8/27/2006	-1
8/28/2006	-1.1
8/29/2006	-1.1
8/30/2006	-1
8/31/2006	-1.1
9/1/2006	-0.9

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Appendix C1. Data Tables for Hydrologic Data

Date: January 2007
Project No.: 333

Jordan Jones & Goulding

File name

Surface Gauge 1	
9/1/2006	-39
9/2/2006	-39.2
9/3/2006	-39.2
9/4/2006	-39.2
9/5/2006	-38.8
9/6/2006	-39.2
9/7/2006	-39.2
9/8/2006	-39.2
9/9/2006	-39.2
9/10/2006	-39.2
9/11/2006	-38.6
9/12/2006	-39.1
9/13/2006	-39.1
9/14/2006	-27.1
9/15/2006	-37.7
9/16/2006	-38.1
9/17/2006	-38.2
9/18/2006	-38.2
9/19/2006	-36.5
9/20/2006	-38.3
9/21/2006	-38.3
9/22/2006	-38.1
9/23/2006	-38.2
9/24/2006	-37.8
9/25/2006	-37.9
9/26/2006	-38.1
9/27/2006	-38
9/28/2006	-37.2
9/29/2006	-37.9
9/30/2006	-37.7
10/1/2006	-37.7
10/2/2006	-36.1
10/3/2006	-36.1
10/4/2006	-35.9
10/4/2006	-36.2
10/5/2006	-35.9
10/6/2006	-35.9
10/7/2006	-35.7
10/8/2006	-35.5
10/9/2006	-35.1
10/10/2006	-35.7
10/11/2006	-35.7
10/12/2006	-35.6
10/13/2006	-35.3
10/14/2006	-35.6
10/15/2006	-35.6
10/16/2006	-35.6
10/17/2006	-34.6
10/18/2006	-29.6
10/19/2006	-33.4
10/20/2006	-32.7
10/21/2006	-33.7
10/22/2006	-34.1
10/23/2006	-33.7
10/24/2006	-34
10/25/2006	-34.1
10/26/2006	-34
10/27/2006	-33.9
10/28/2006	-28.4
10/29/2006	-32
10/30/2006	-33.1
10/31/2006	-33.4

Surface Gauge 2	
9/1/2006	3.2
9/2/2006	3.2
9/3/2006	3.2
9/4/2006	3.2
9/5/2006	3.2
9/6/2006	3.2
9/7/2006	2.6
9/8/2006	2.3
9/9/2006	0.8
9/10/2006	0.2
9/11/2006	0
9/12/2006	0.4
9/13/2006	0.4
9/14/2006	0.2
9/15/2006	3.2
9/16/2006	3.2
9/17/2006	3.2
9/18/2006	2.6
9/19/2006	3.2
9/20/2006	3.2
9/21/2006	3.2
9/22/2006	3.2
9/23/2006	2.5
9/24/2006	3.2
9/25/2006	3.2
9/26/2006	3.2
9/27/2006	3.2
9/28/2006	3.2
9/29/2006	3.2
9/30/2006	3.2
10/1/2006	3.2
10/2/2006	3.2
10/3/2006	3.2
10/4/2006	3.2
10/4/2006	2.3
10/5/2006	3.2
10/6/2006	3.2
10/7/2006	1.7
10/8/2006	0.8
10/9/2006	1.5
10/10/2006	1.9
10/11/2006	3
10/12/2006	1.5
10/13/2006	2.1
10/14/2006	1.9
10/15/2006	3.2
10/16/2006	3.2
10/17/2006	3.2
10/18/2006	3.2
10/19/2006	3.2
10/20/2006	3.2
10/21/2006	3.2
10/22/2006	3.2
10/23/2006	3.2
10/24/2006	3.2
10/25/2006	3.2
10/26/2006	3.2
10/27/2006	3.2
10/28/2006	3.2
10/29/2006	3.2
10/30/2006	3.2
10/31/2006	3.2

Surface Gauge 3	
9/1/2006	NA
9/2/2006	NA
9/3/2006	NA
9/4/2006	NA
9/5/2006	NA
9/6/2006	NA
9/7/2006	NA
9/8/2006	NA
9/9/2006	NA
9/10/2006	NA
9/11/2006	NA
9/12/2006	NA
9/13/2006	NA
9/14/2006	NA
9/15/2006	NA
9/16/2006	NA
9/17/2006	NA
9/18/2006	NA
9/19/2006	NA
9/20/2006	NA
9/21/2006	NA
9/22/2006	NA
9/23/2006	NA
9/24/2006	NA
9/25/2006	NA
9/26/2006	NA
9/27/2006	NA
9/28/2006	NA
9/29/2006	NA
9/30/2006	NA
10/1/2006	NA
10/2/2006	NA
10/3/2006	NA
10/4/2006	NA
10/4/2006	NA
10/5/2006	NA
10/6/2006	NA
10/7/2006	NA
10/8/2006	NA
10/9/2006	NA
10/10/2006	NA
10/11/2006	NA
10/12/2006	NA
10/13/2006	NA
10/14/2006	NA
10/15/2006	NA
10/16/2006	NA
10/17/2006	NA
10/18/2006	NA
10/19/2006	NA
10/20/2006	NA
10/21/2006	NA
10/22/2006	NA
10/23/2006	NA
10/24/2006	NA
10/25/2006	-41.7
10/26/2006	-41.7
10/27/2006	-37.6
10/28/2006	-41.7
10/29/2006	-41.7
10/30/2006	-41.7
10/31/2006	-41.7

Well 9 = Surface Gauge	
9/2/2006	-0.6
9/3/2006	-0.5
9/4/2006	-0.5
9/5/2006	-0.2
9/6/2006	-0.1
9/7/2006	-0.2
9/8/2006	-0.1
9/9/2006	-0.2
9/10/2006	-0.2
9/11/2006	-0.2
9/12/2006	-0.2
9/13/2006	-0.3
9/14/2006	2.6
9/15/2006	2.2
9/16/2006	1.5
9/17/2006	1.4
9/18/2006	1.3
9/19/2006	1.6
9/20/2006	1.3
9/21/2006	1.2
9/22/2006	1.3
9/23/2006	1.8
9/24/2006	1.4
9/25/2006	1.5
9/26/2006	1.2
9/27/2006	1.2
9/28/2006	1
9/29/2006	1
9/30/2006	0.9
10/1/2006	1
10/2/2006	0.8
10/3/2006	0.7
10/3/2006	0.7
10/4/2006	0.7
10/5/2006	0.6
10/6/2006	0.9
10/7/2006	0.5
10/8/2006	0.6
10/9/2006	0.7
10/10/2006	0.7
10/11/2006	0.7
10/12/2006	1.4
10/13/2006	0.6
10/14/2006	0.4
10/15/2006	0.2
10/16/2006	0.2
10/17/2006	0.7
10/18/2006	2.6
10/19/2006	2.2
10/20/2006	2.4
10/21/2006	2
10/22/2006	2
10/23/2006	2.2
10/24/2006	2.1
10/25/2006	2
10/26/2006	-9.4
10/27/2006	-10.3
10/28/2006	-8.8
10/29/2006	-10.8
10/30/2006	-10.8
10/31/2006	-10.7
11/1/2006	-10.6

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Appendix C1. Data Tables for Hydrologic Data

Date: January 2007
Project No.: 333

Jordan Jones & Goulding INCORPORATED

File name

Surface Gauge 1	
11/1/2006	-33.4
11/2/2006	-33.5
11/3/2006	-33.9
11/4/2006	-34
11/5/2006	-34
11/6/2006	-34
11/7/2006	-33.7
11/8/2006	-28.3
11/9/2006	-31
11/10/2006	-32.4
11/11/2006	-32.7
11/12/2006	-28.4
11/13/2006	-31.2
11/14/2006	-32.4
11/15/2006	-32.4
11/16/2006	-25.5
11/17/2006	-29.1
11/18/2006	-30.6
11/19/2006	-31.4
11/20/2006	-31.7
11/21/2006	-32.1
11/22/2006	-29
11/23/2006	-29.3
11/24/2006	-30.7
11/25/2006	-31.7
11/26/2006	-32.1
11/27/2006	-32.4
11/28/2006	-32.8
11/29/2006	-33
11/30/2006	-32.9
12/1/2006	-32.7
12/2/2006	-33.5
12/3/2006	-33.5
12/4/2006	-33.6
12/5/2006	-34
12/6/2006	-34
12/7/2006	-32.5
12/8/2006	-32.9
12/9/2006	-33.4
12/10/2006	-33.3
12/11/2006	-32.9
12/12/2006	-33.1
12/13/2006	-32.9
12/14/2006	-33
12/15/2006	-33
12/16/2006	-33
12/17/2006	-33.1
12/18/2006	-33.1
12/19/2006	-33.1
12/20/2006	-33.3
12/21/2006	-32.7
12/22/2006	-32.5
12/23/2006	-30.9
12/24/2006	-32.6
12/25/2006	-32.7
12/26/2006	-30.1
12/27/2006	-31.1
12/29/2006	-32.2
12/30/2006	-32
12/31/2006	-31.2
1/1/2007	-30.1
1/2/2007	-30.8
1/3/2007	-28.6
1/4/2007	-29.3
1/5/2007	-29.1
1/6/2007	-29.9
1/7/2007	-30
1/8/2007	-28.7
1/9/2007	-30.1
1/10/2007	-30.3
1/11/2007	-30.5
1/12/2007	-30.3
1/13/2007	-30.3
1/14/2007	-30.2
1/15/2007	-30.3
1/16/2007	-29.8
1/17/2007	-30.6
1/18/2007	-30.7
1/19/2007	-30.3
1/20/2007	-31.1
1/21/2007	-31.4
1/22/2007	-29.6
1/23/2007	-30
1/24/2007	-30.6
1/25/2007	-30.9

Surface Gauge 2	
11/1/2006	3.2
11/2/2006	3.2
11/3/2006	3.2
11/4/2006	3.2
11/5/2006	3.2
11/6/2006	3.2
11/7/2006	3.2
11/8/2006	3.2
11/9/2006	3.2
11/10/2006	3.2
11/11/2006	3.2
11/12/2006	3.2
11/13/2006	3.2
11/14/2006	3.2
11/15/2006	3.2
11/16/2006	3.2
11/17/2006	2.8
11/18/2006	3.2
11/19/2006	3.2
11/20/2006	2.6
11/21/2006	2.5
11/22/2006	2.6
11/23/2006	2.6
11/24/2006	3.2
11/25/2006	3.2
11/26/2006	3.2
11/27/2006	3.2
11/28/2006	3.2
11/29/2006	3.2
11/30/2006	3.2
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12/5/2006	3.2
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12/7/2006	2.6
12/8/2006	2.6
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12/12/2006	2.6
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12/14/2006	3.2
12/15/2006	3.2
12/16/2006	3.2
12/17/2006	3.2
12/18/2006	3.2
12/19/2006	3.2
12/20/2006	3.2
12/21/2006	3.2
12/22/2006	3.2
12/23/2006	3.2
12/24/2006	2.6
12/25/2006	2.3
12/26/2006	0.8
12/27/2006	0.2
12/29/2006	0
12/30/2006	0.4
12/31/2006	0.4
1/1/2007	0.2
1/2/2007	3.2
1/3/2007	3.2
1/4/2007	3.2
1/5/2007	2.6
1/6/2007	3.2
1/7/2007	3.2
1/8/2007	3.2
1/9/2007	3.2
1/10/2007	3.2
1/11/2007	3.2
1/12/2007	3.2
1/13/2007	3.2
1/14/2007	3.2
1/15/2007	3.2
1/16/2007	3.2
1/17/2007	3.2
1/18/2007	3.2
1/19/2007	3.2
1/20/2007	3.2
1/21/2007	3.2
1/22/2007	3.2
1/23/2007	3.2
1/24/2007	3.2
1/25/2007	3.2

Surface Gauge 3	
11/1/2006	-41.8
11/2/2006	-41.7
11/3/2006	-41.8
11/4/2006	-41.7
11/5/2006	-41.7
11/6/2006	-41.8
11/7/2006	-41.7
11/8/2006	-41.7
11/9/2006	-41.8
11/10/2006	-41.7
11/11/2006	-41.7
11/12/2006	-41.7
11/13/2006	-41.7
11/14/2006	-31.8
11/15/2006	-28.1
11/16/2006	1.6
11/17/2006	-26.3
11/18/2006	-29.9
11/19/2006	-30.5
11/20/2006	-30.1
11/21/2006	-31.4
11/22/2006	-15.6
11/23/2006	-25.8
11/24/2006	-29.6
11/25/2006	-30.3
11/26/2006	-30.7
11/27/2006	-31
11/28/2006	-31.1
11/29/2006	-31.3
11/30/2006	-31.4
12/1/2006	-31.4
12/2/2006	-31.7
12/3/2006	-31.7
12/4/2006	-32
12/5/2006	-32
12/6/2006	-31.8
12/7/2006	-37.5
12/8/2006	-38.3
12/9/2006	-38.5
12/10/2006	-38.3
12/11/2006	-38.2
12/12/2006	-38.3
12/13/2006	-38.2
12/14/2006	-38.3
12/15/2006	-38.3
12/16/2006	-38.3
12/17/2006	-38.5
12/18/2006	-38.4
12/19/2006	-38.5
12/20/2006	-38.7
12/21/2006	-38.7
12/22/2006	-36.2
12/23/2006	-36
12/24/2006	-37.5
12/25/2006	-21.6
12/26/2006	-31
12/27/2006	-35.1
12/28/2006	-36.5
12/29/2006	-37
12/30/2006	-36.2
12/31/2006	-35.9
1/1/2007	3.5
1/2/2007	-28.5
1/3/2007	-32.9
1/4/2007	-33.8
1/5/2007	-33
1/6/2007	-31.8
1/7/2007	-33.4
1/8/2007	-14.6
1/9/2007	-31.2
1/10/2007	-33.3
1/11/2007	-34.2
1/12/2007	-34.5
1/13/2007	-34.6
1/14/2007	-34.7
1/15/2007	-34.6
1/16/2007	-34.9
1/17/2007	-35.5
1/18/2007	-35.2
1/19/2007	-34.9
1/20/2007	-35.9
1/21/2007	-36.3
1/22/2007	-33.2
1/23/2007	-33.9
1/24/2007	-34.9

Well 9 = Surface Gauge	
11/2/2006	-10.4
11/3/2006	-11.8
11/4/2006	-11.9
11/5/2006	-9.9
11/6/2006	-7.7
11/7/2006	-6.2
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Prepared For:

Ecosystem Enhancement Program

Shepherds Tree Stream and Wetland Restoration
Year 2 of 5

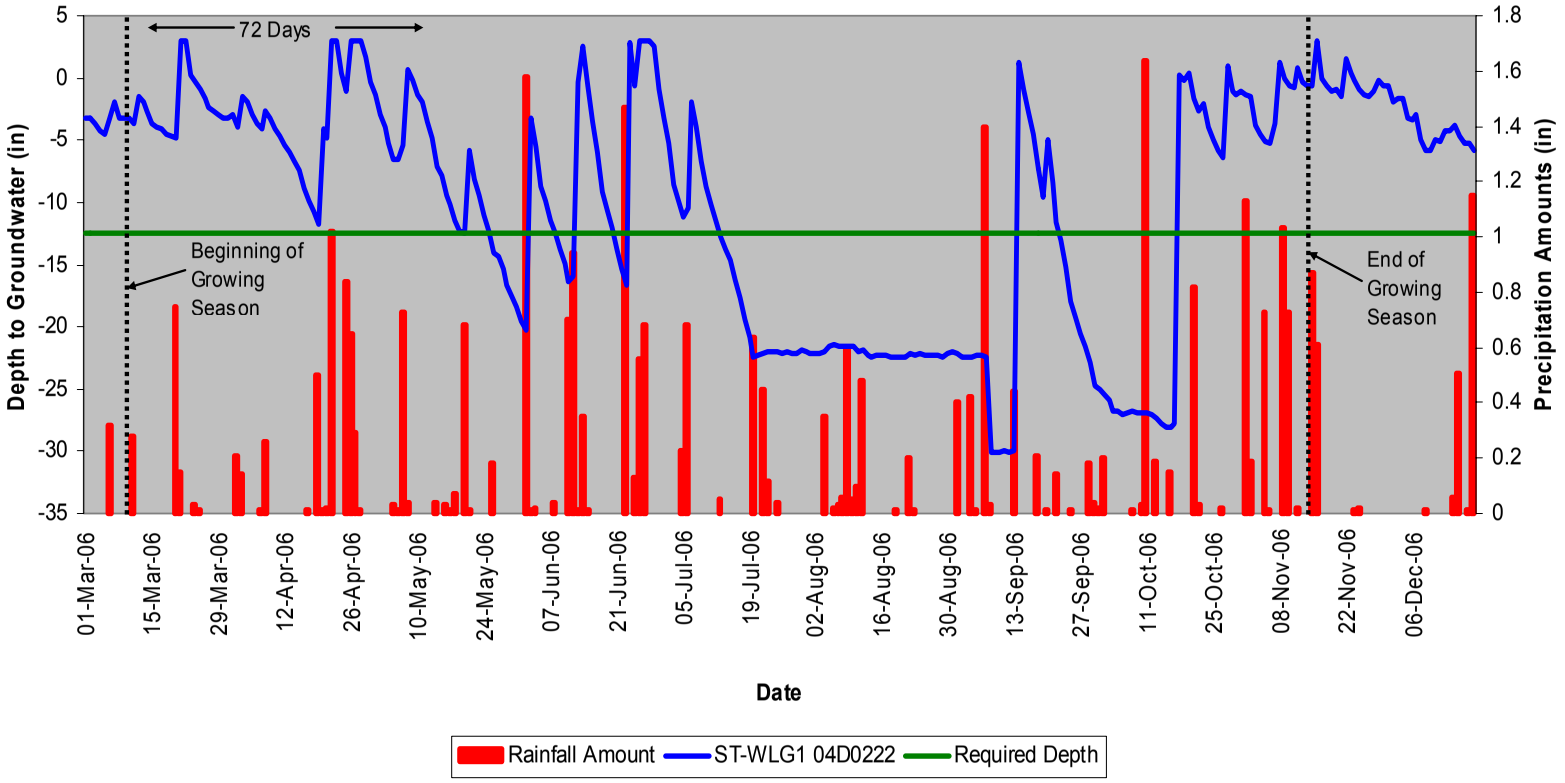
Appendix C1. Data Tables for Hydrologic Data

Date: January 2007
Project No.: 333

Jordan Jones & Goulding INCORPORATED

File name

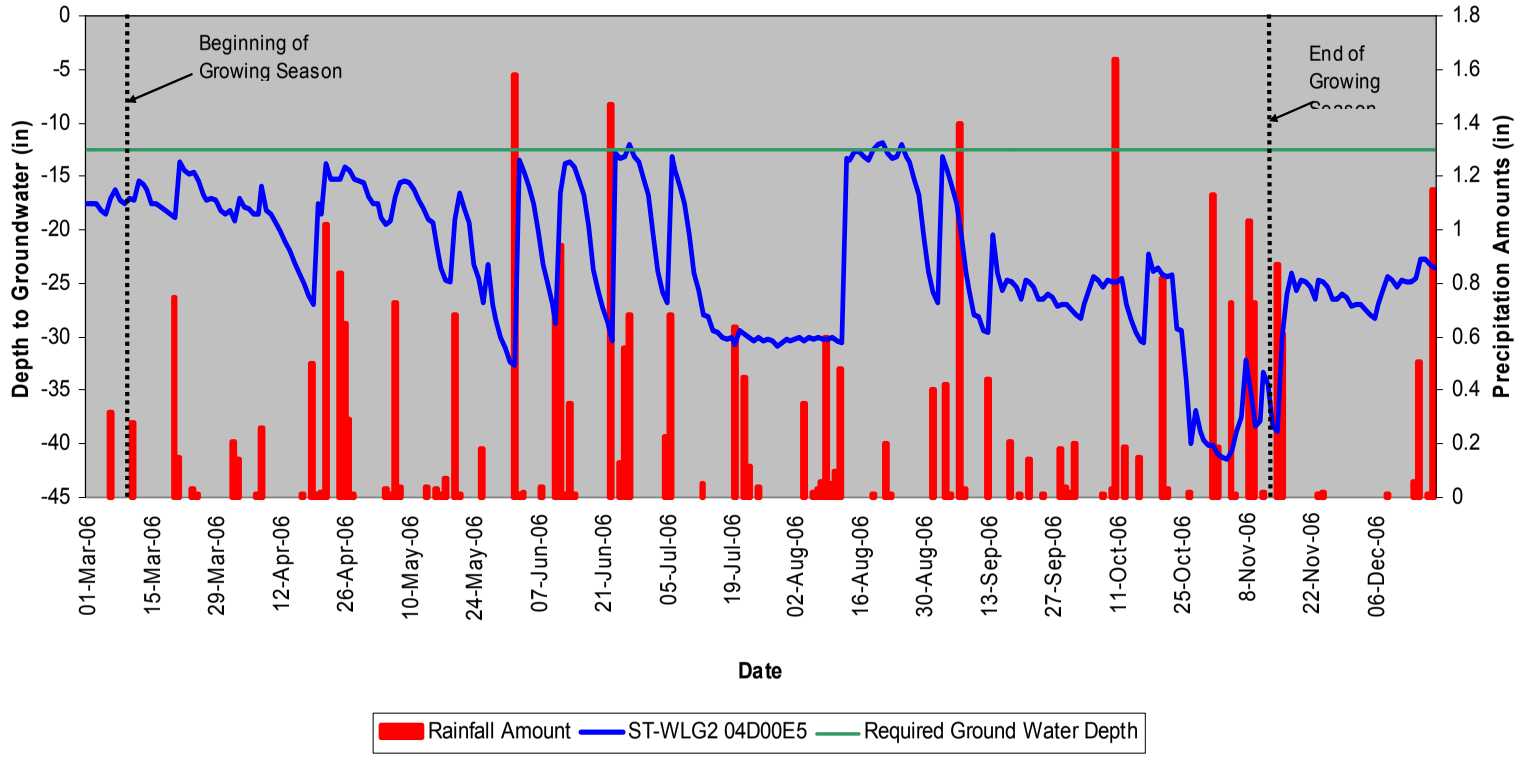
Shepherds Tree Hydrology Monitoring
Iredell County, North Carolina
Groundwater Gauge 1



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding

File name

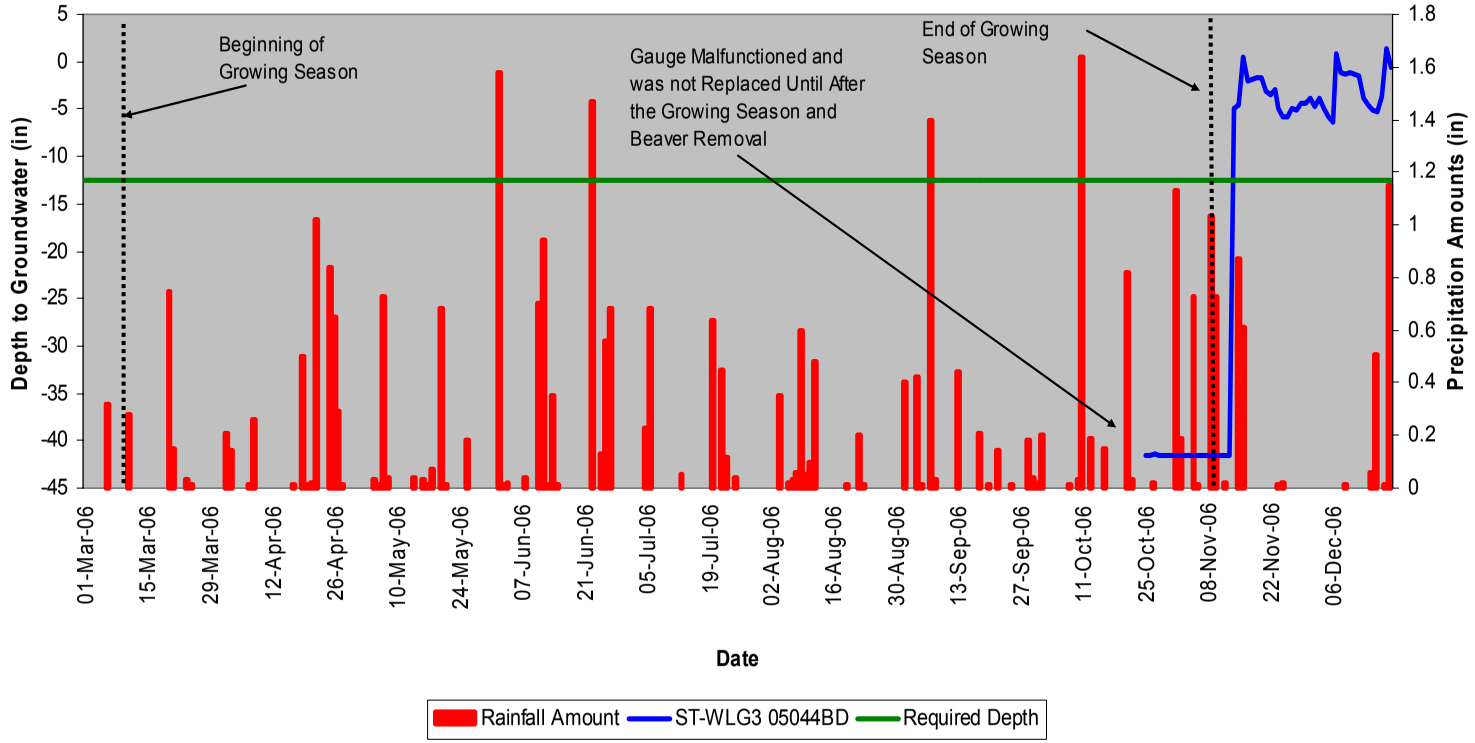
Shepherds Tree Hydrology Monitoring
Iredell County, North Carolina
Groundwater Gauge 2



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding

File name

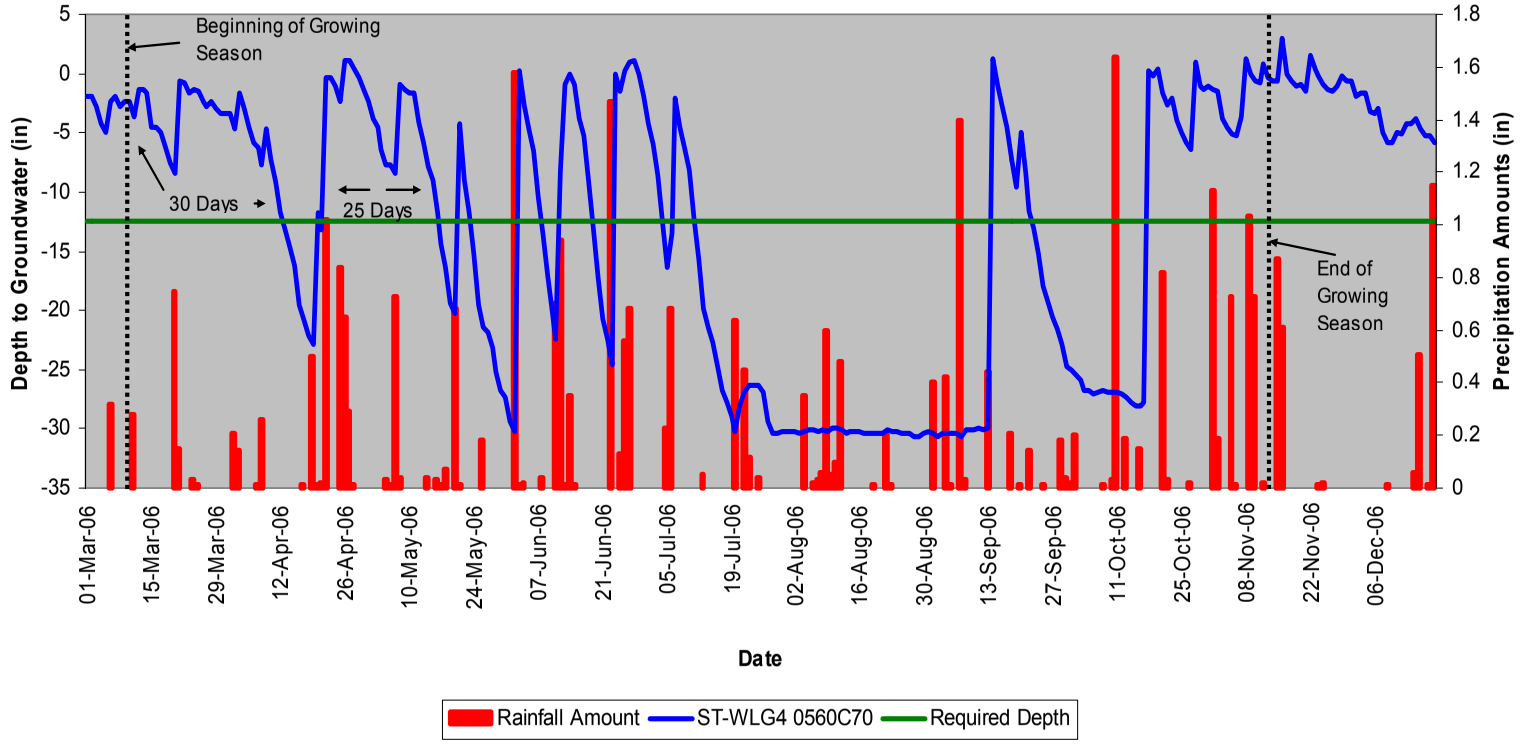
Shepherds Tree Hydrology Monitoring
Iredell County, North Carolina
Groundwater Gauge 3



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding

File name

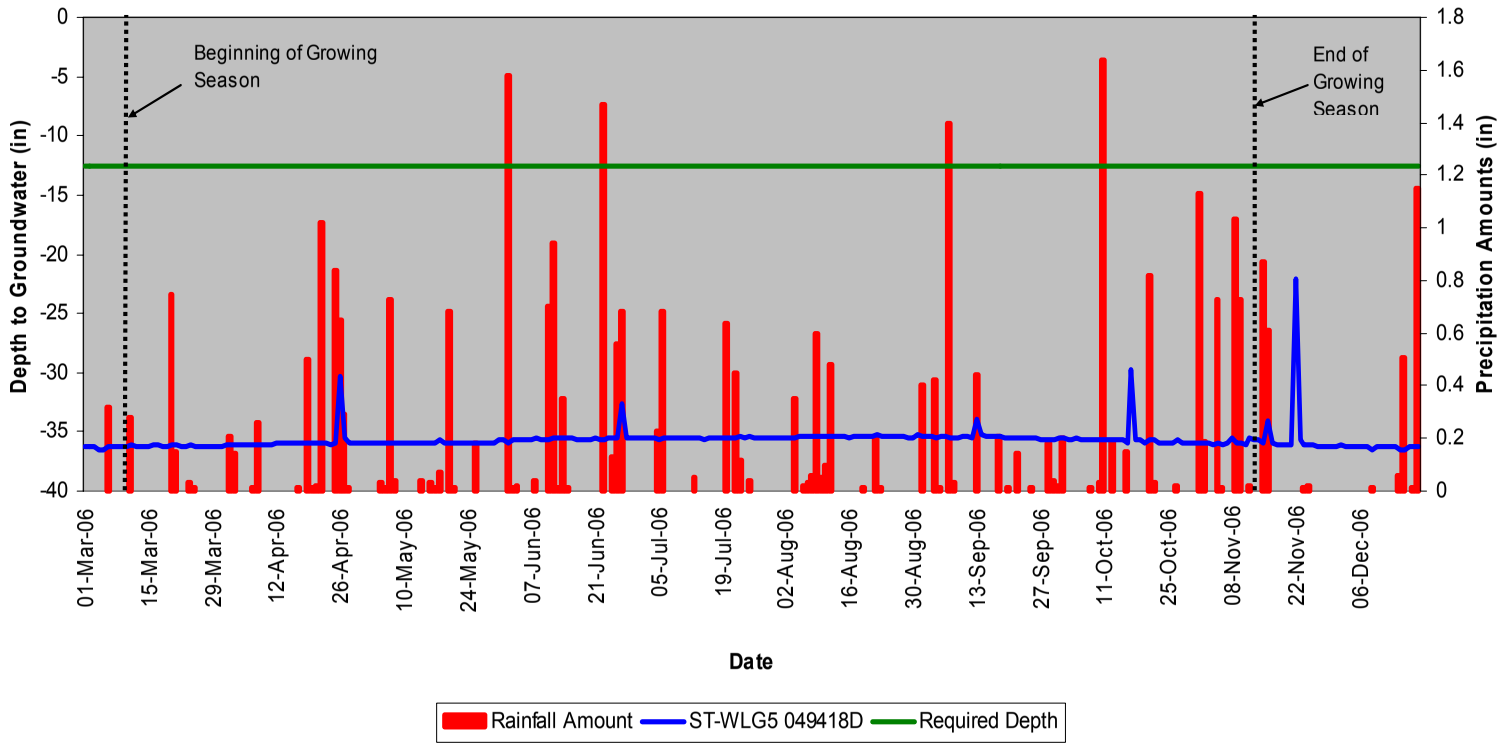
Shepherds Tree Hydrology Monitoring
Iredell County, North Carolina
Groundwater Gauge 4



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding Incorporated

File name

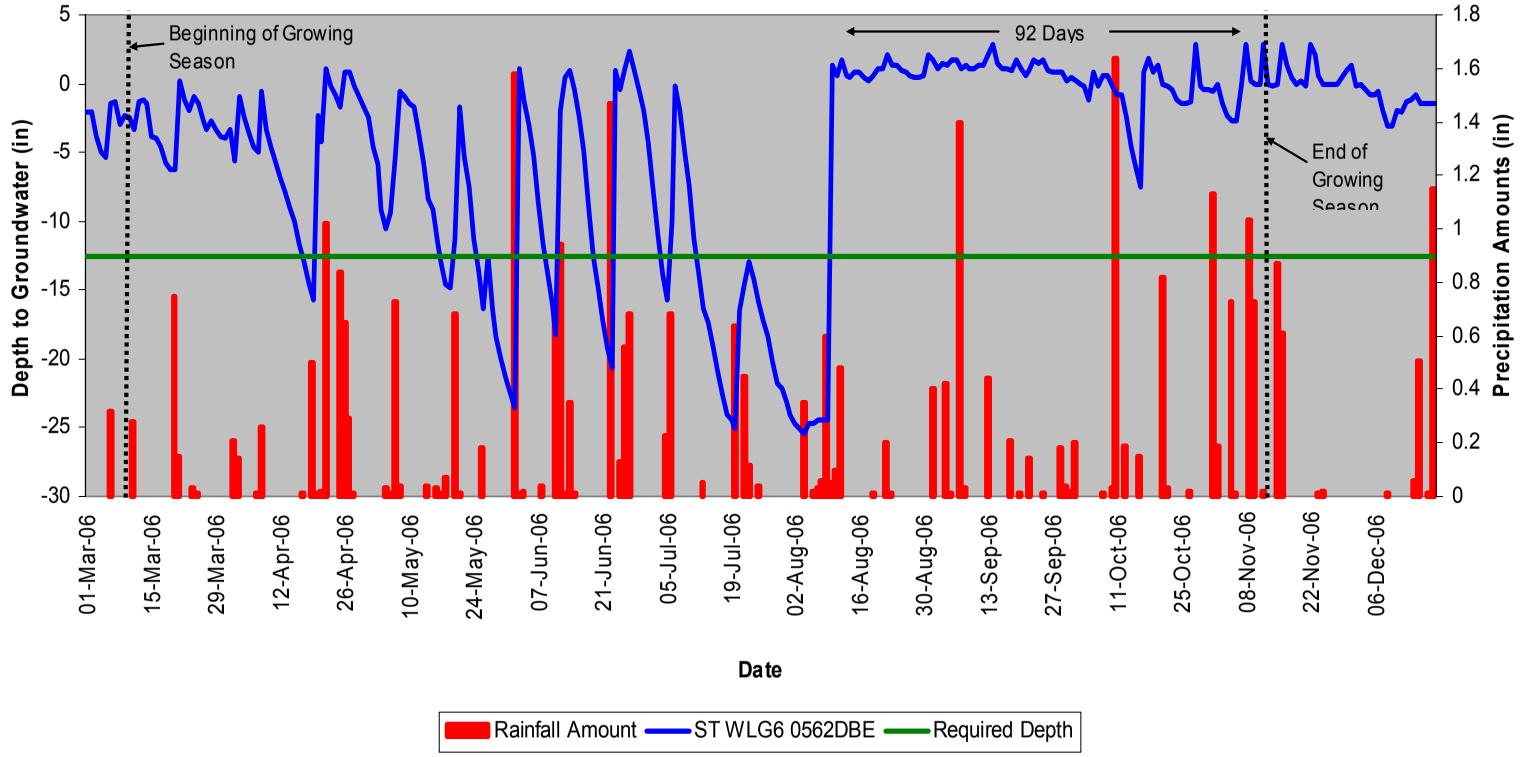
Shepherds Tree Hydrology Monitoring
Iredell County, North Carolina
Groundwater Gauge 5



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding

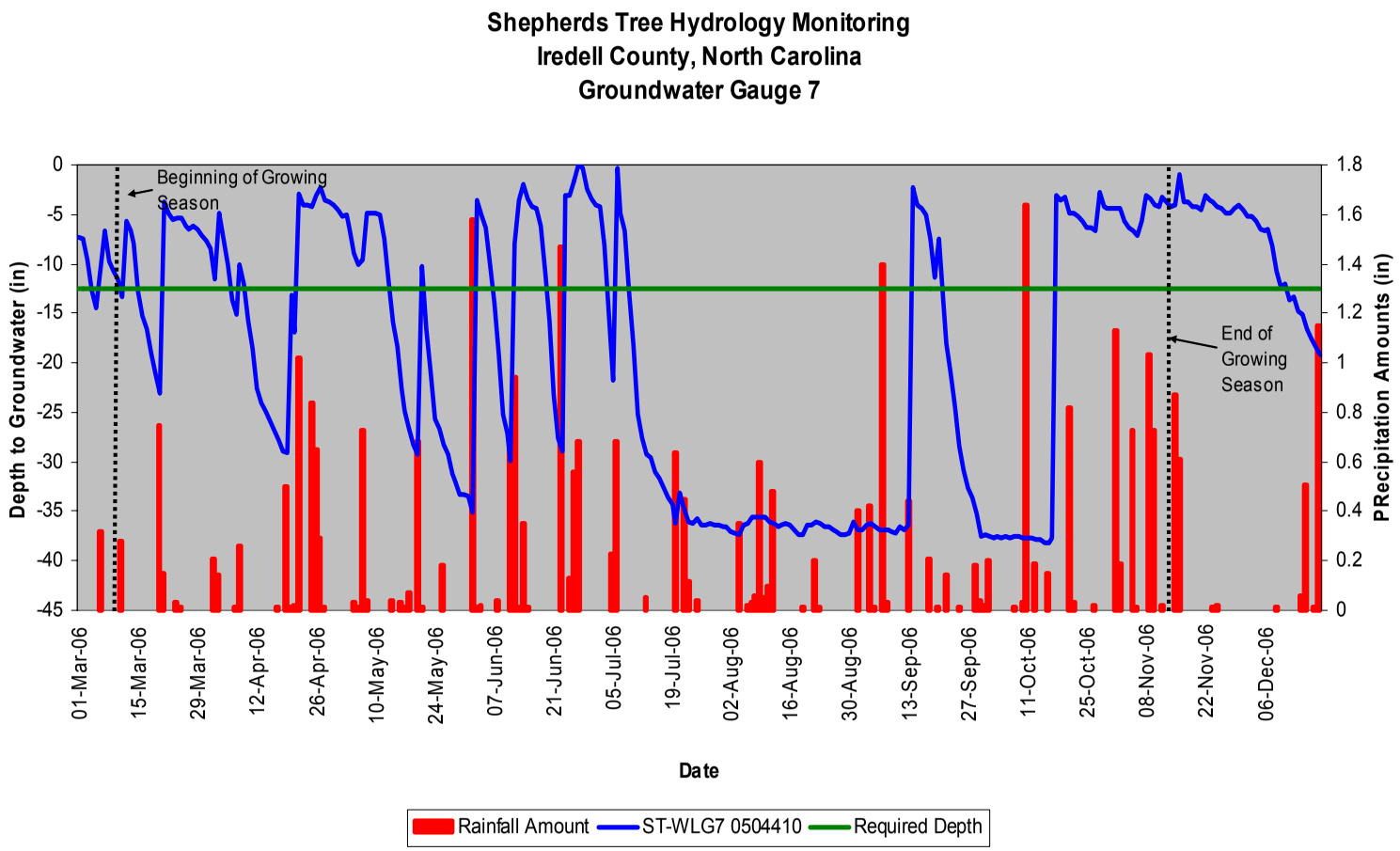
File name

Shepherds Tree Hydrology Monitoring
Iredell County, North Carolina
Groundwater Gauge 6



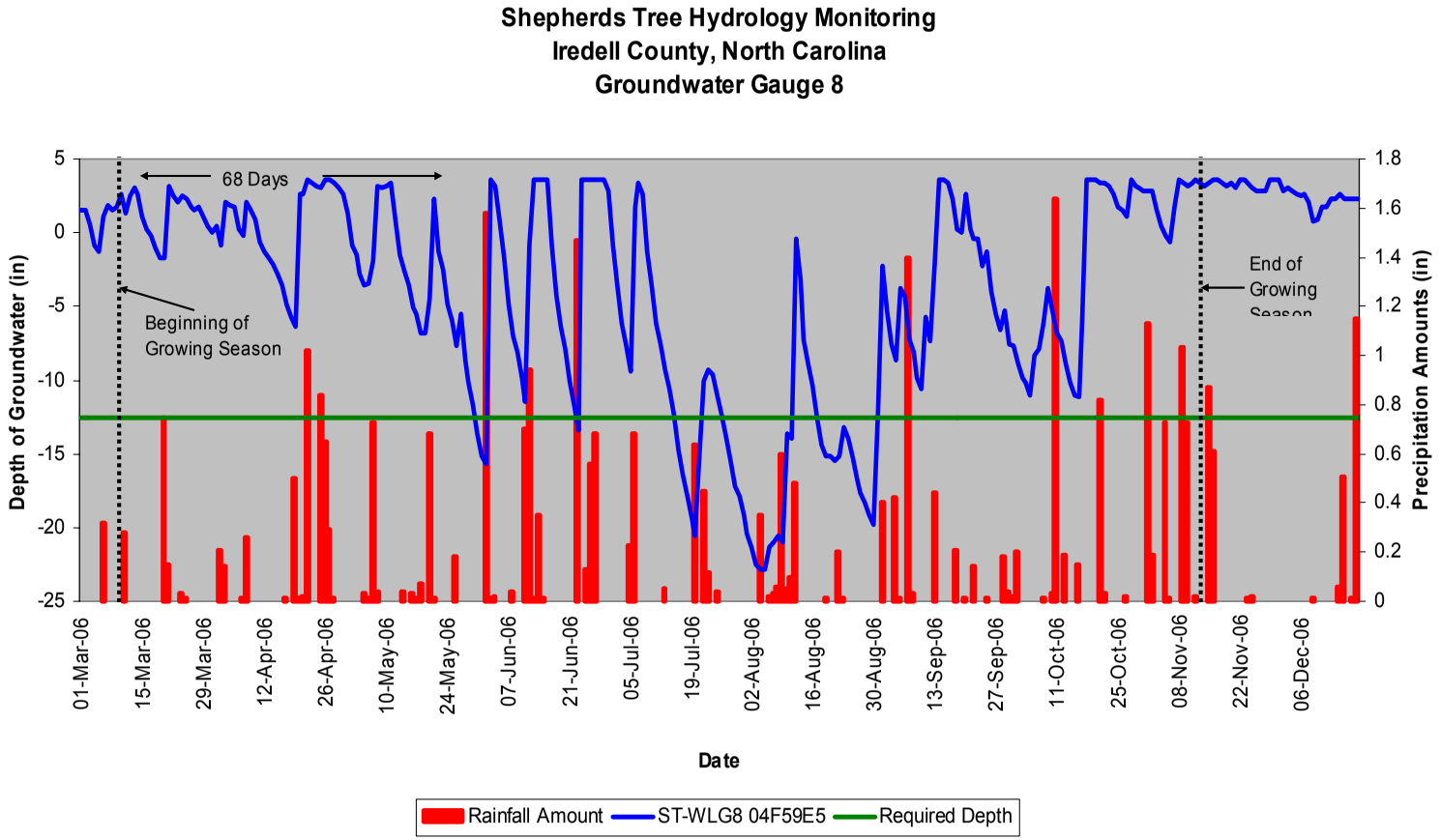
Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding

File name



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding

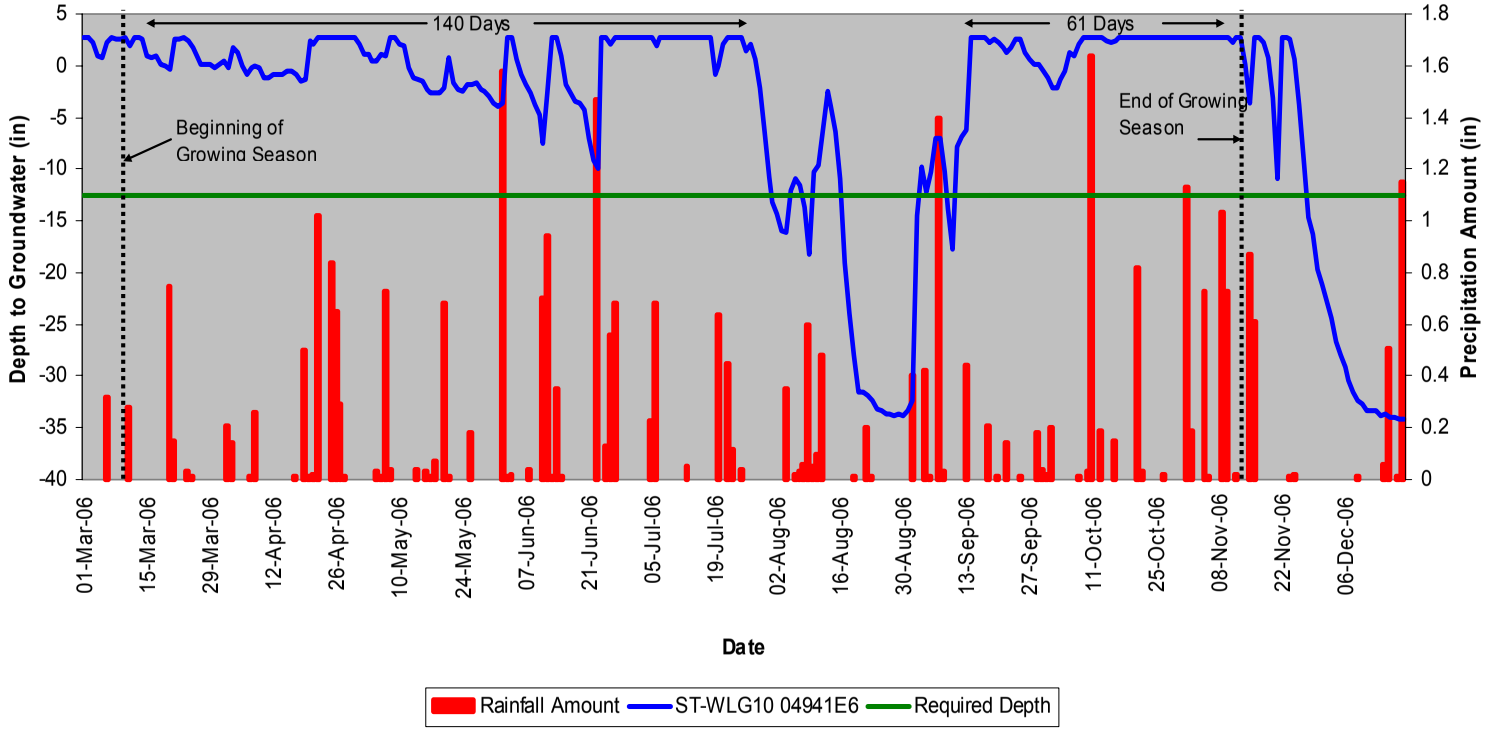
File name



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding Incorporated

File name

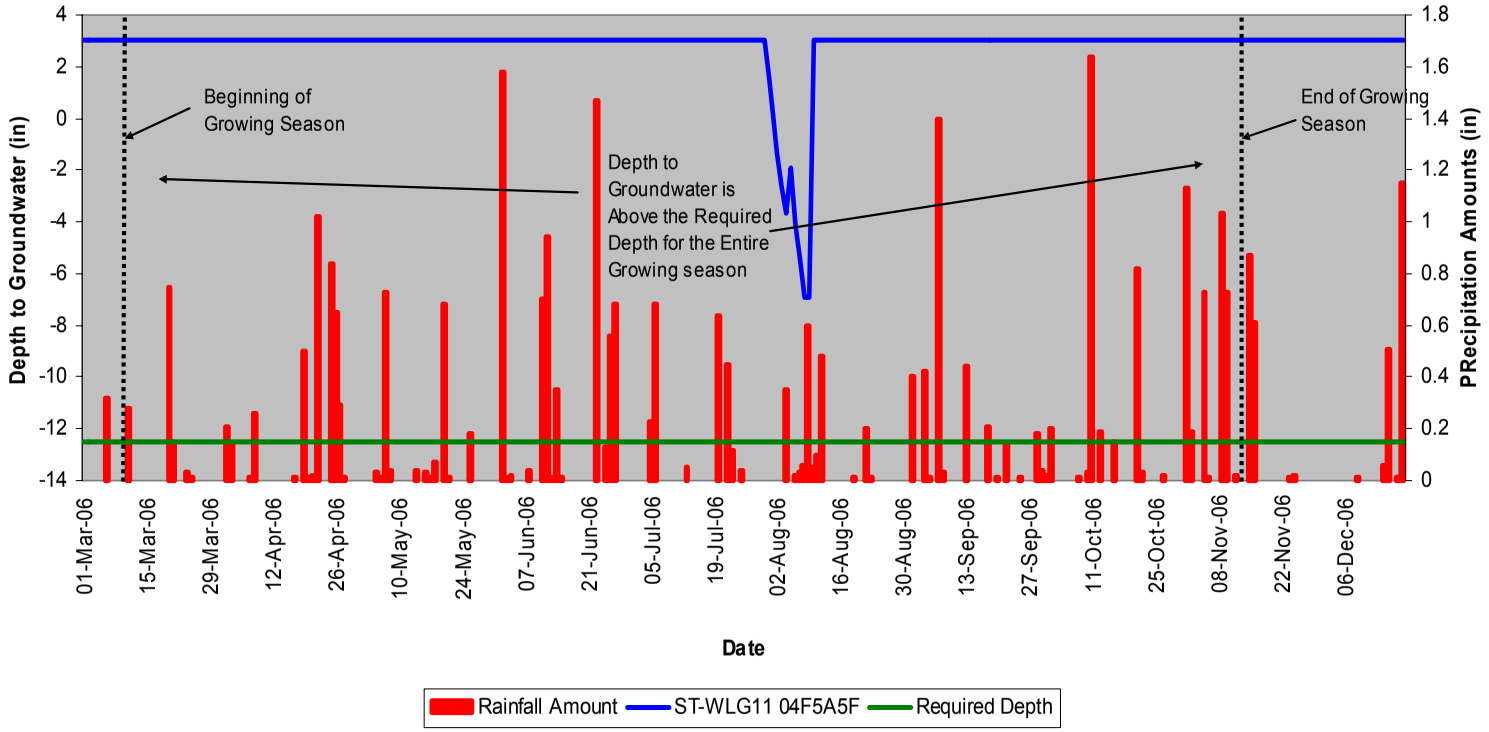
Shepherds Tree Hydrology Monitoring
Iredell County, North Carolina
Groundwater Gauge 10



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding

File name

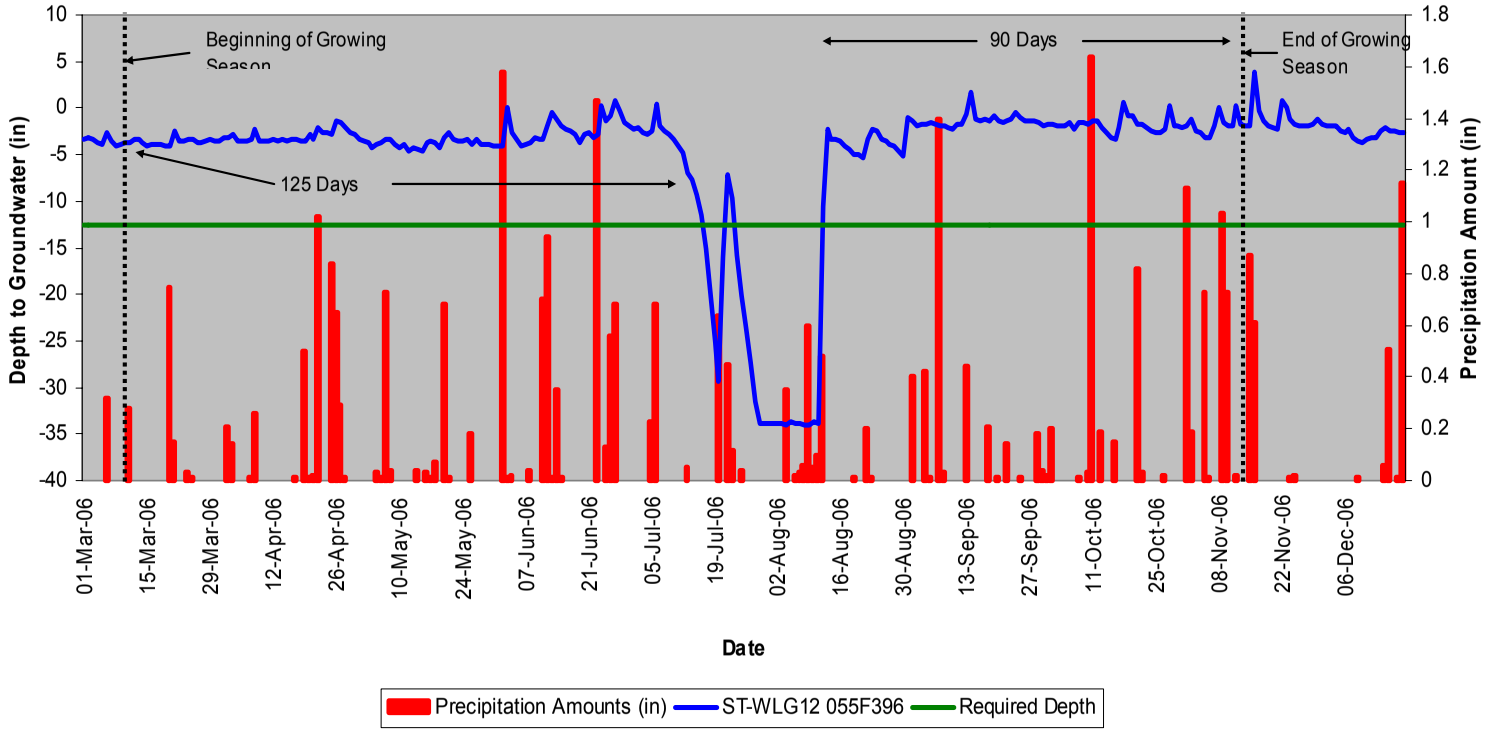
Shepherds Tree Hydrology Monitoring
Iredell County, North Carolina
Groundwater Gauge 11



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding

File name

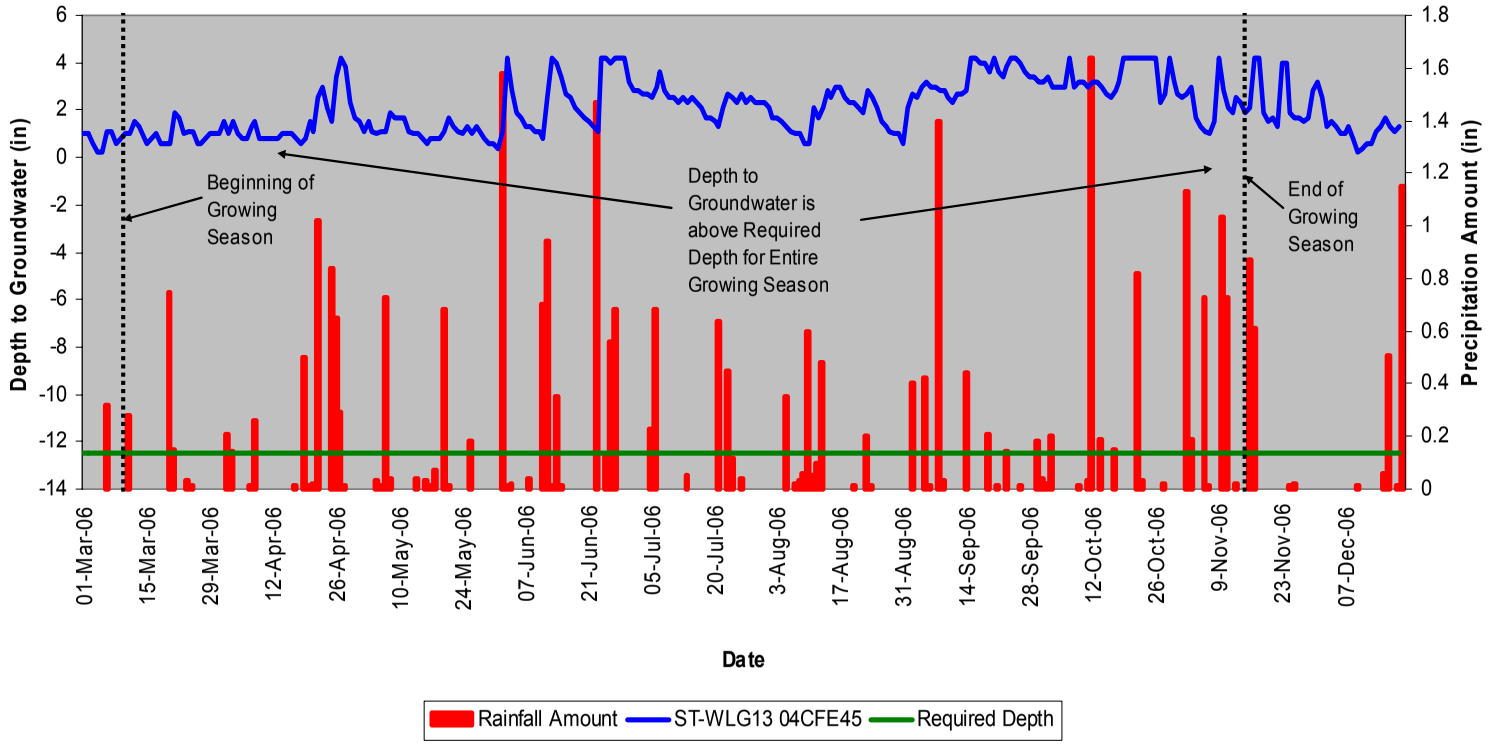
Shepherds Tree Hydrology Monitoring
Iredell County, North Carolina
Groundwater Gauge 12



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding

File name

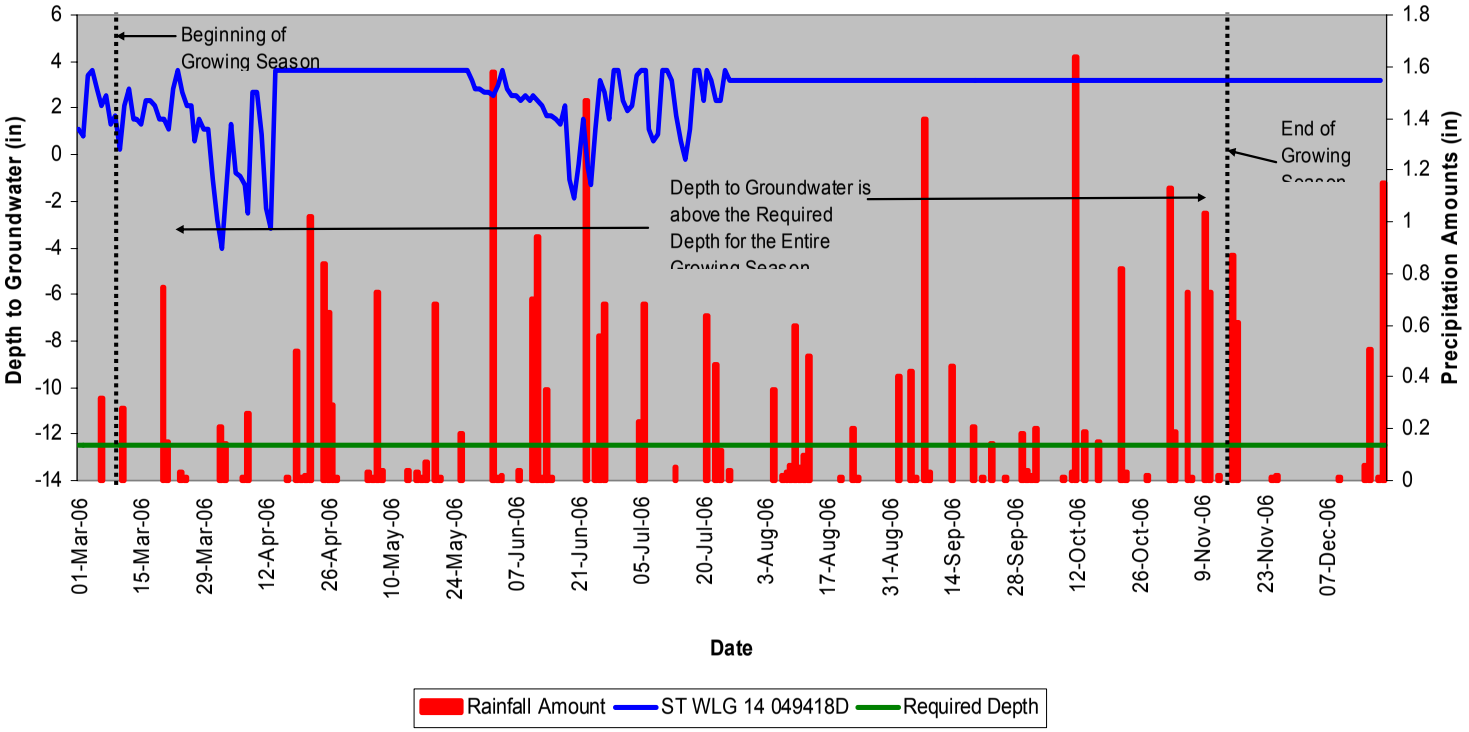
Shepherds Tree Hydrology Monitoring
Iredell County, North Carolina
Groundwater Gauge 13



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding

File name

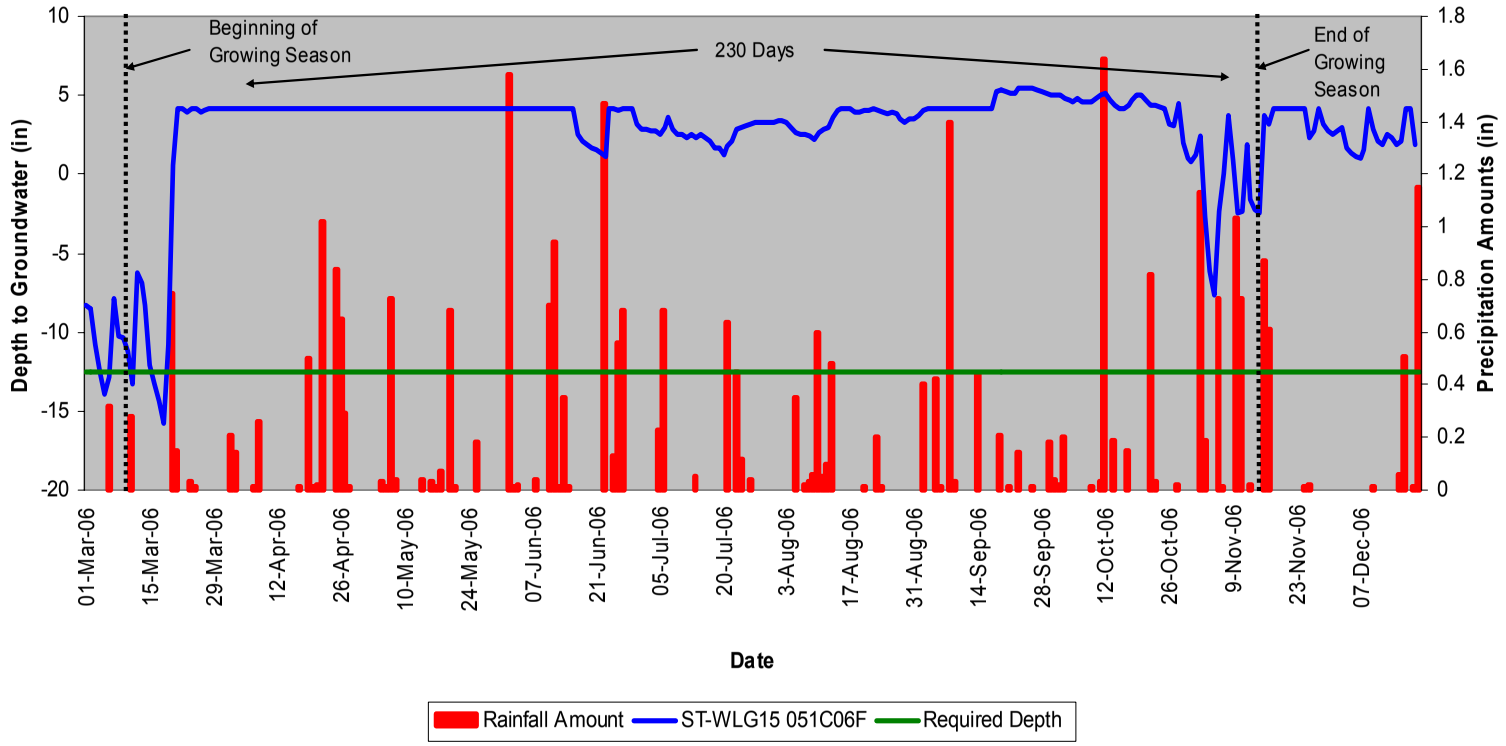
Shepherds Tree Hydrology Monitoring
Iredell County, North Carolina
Groundwater Gauge 14



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding Incorporated

File name

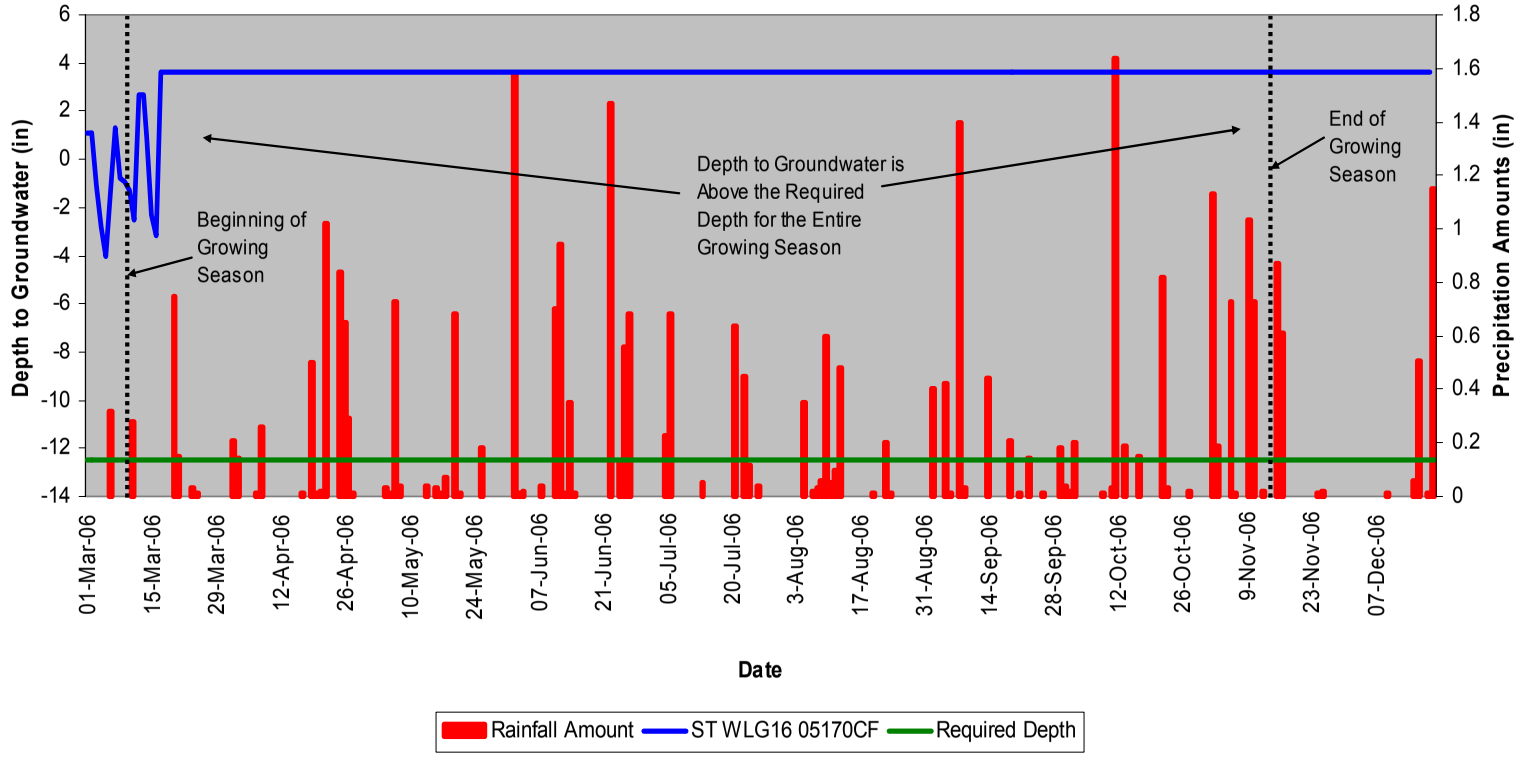
Shepherds Tree Hydrology Monitoring
Iredell County, North Carolina
Groundwater Gauge 15



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding Incorporated

File name

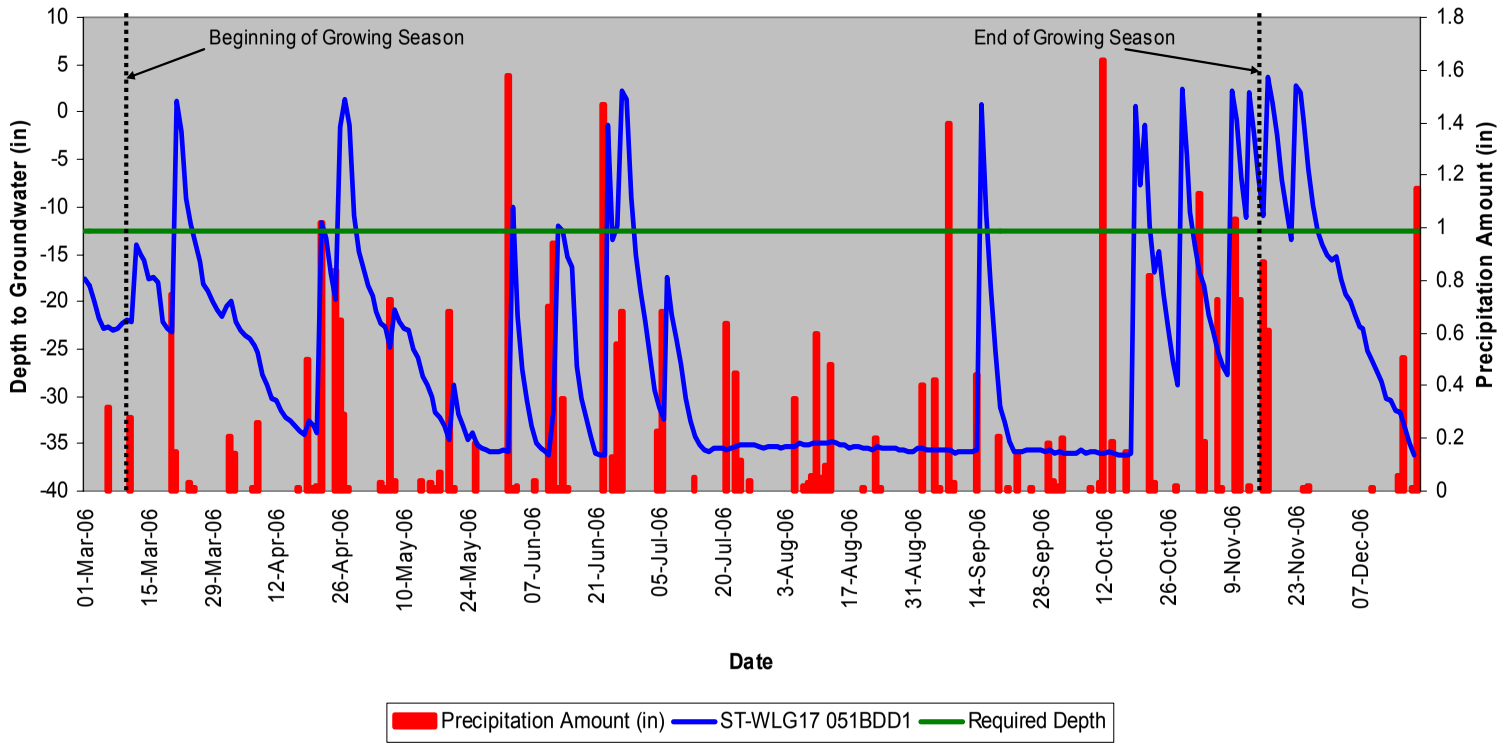
Shepherds Tree Hydrology Monitoring
Iredell County, North Carolina
Groundwater Gauge 16



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding

File name

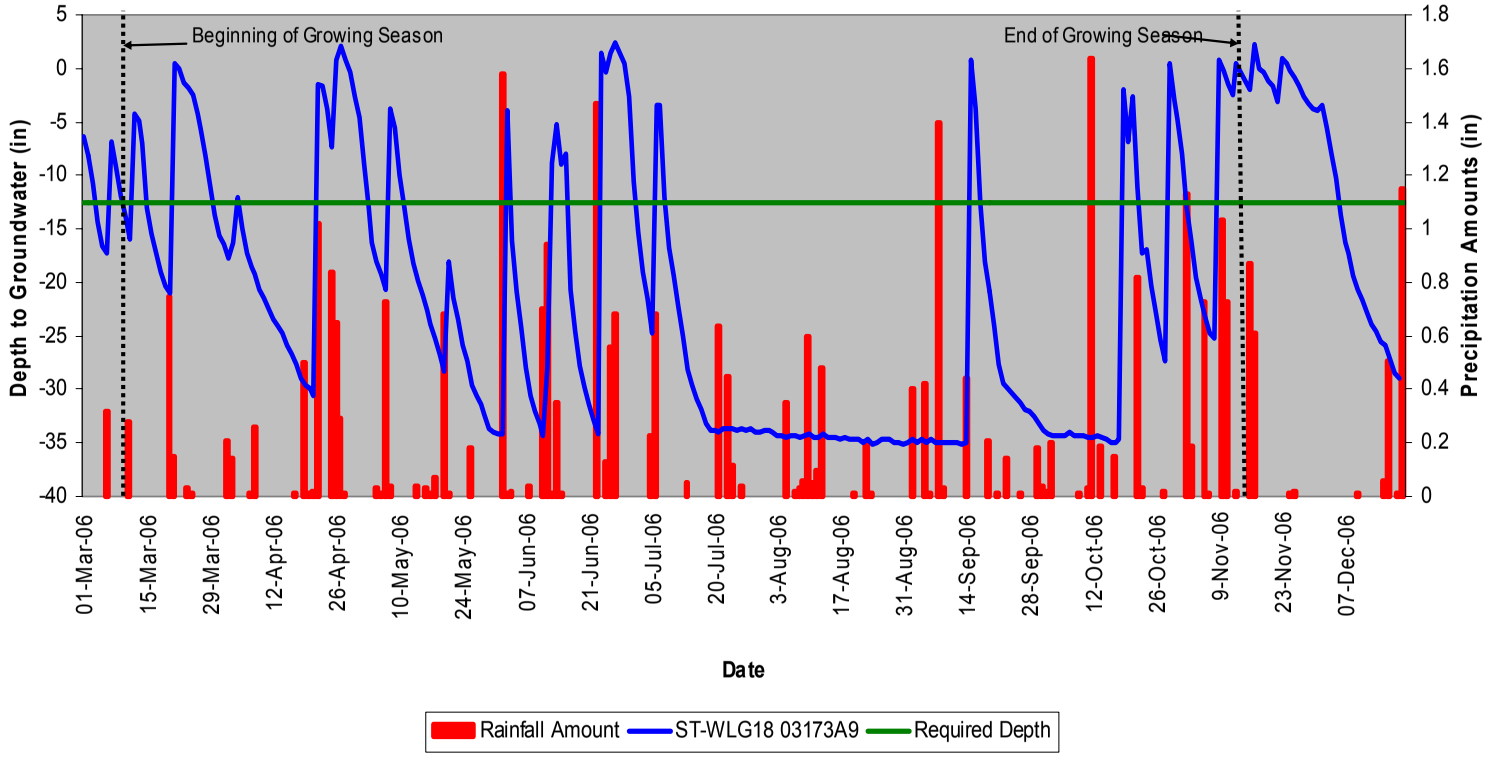
Shepherds Tree Hydrology Monitoring
Iredell County, North Carolina
Groundwater Gauge 17



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding

File name

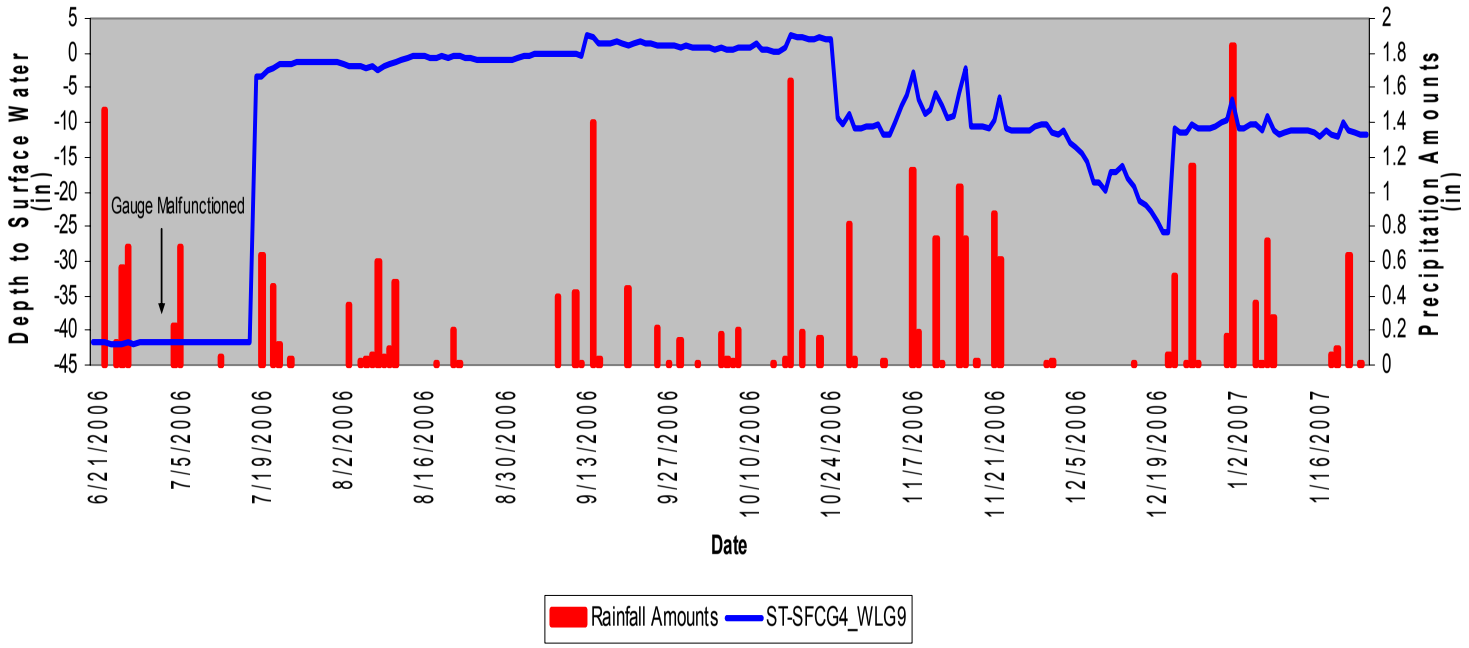
Shepherds Tree Hydrology Monitoring
Iredell county, North Carolina
Groundwater Gauge 18



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding

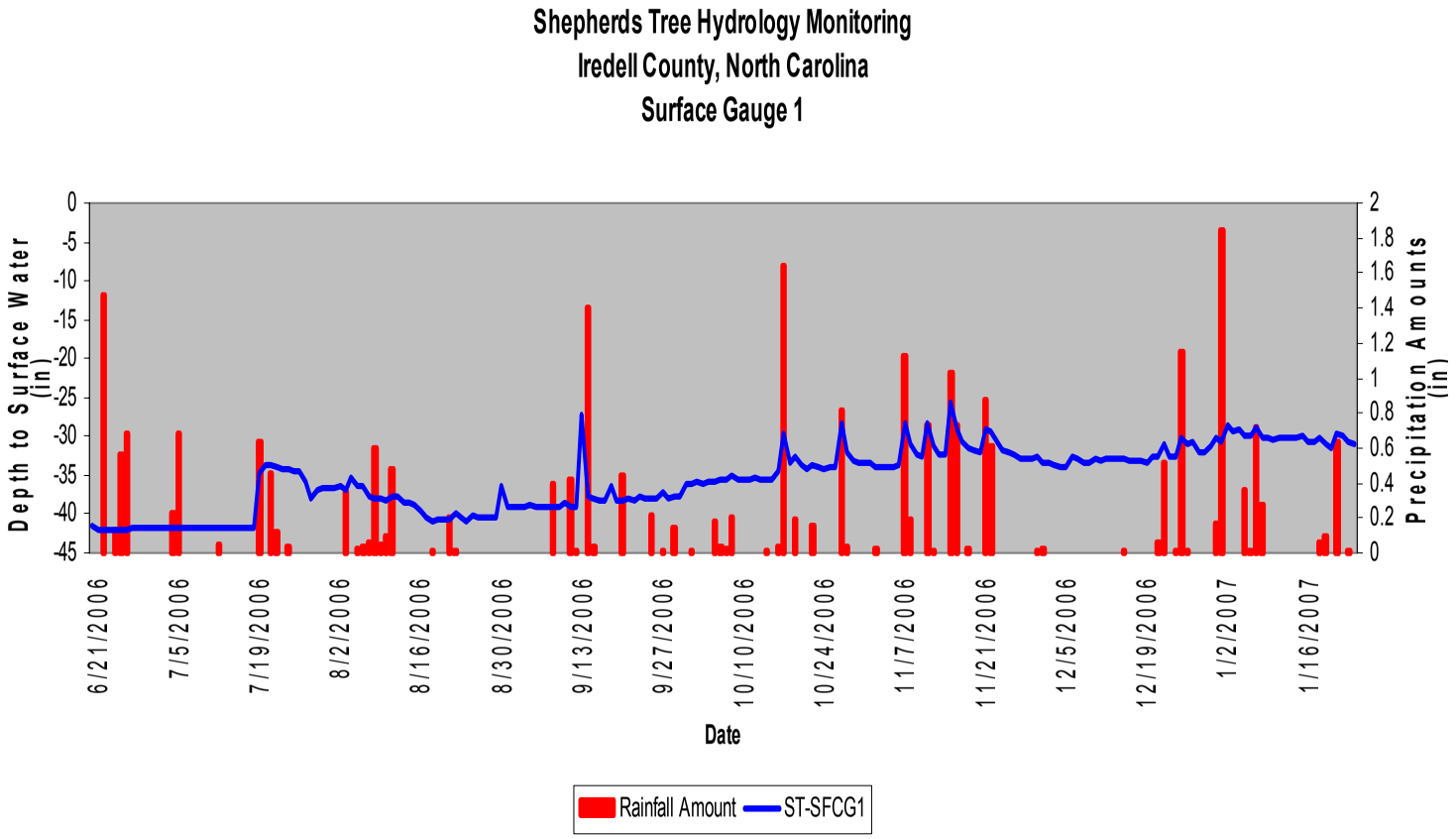
File name

Shepherds Tree Hydrology Monitoring
Iredell County, North Carolina
Surface Gauge 4 - WLG 9



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding

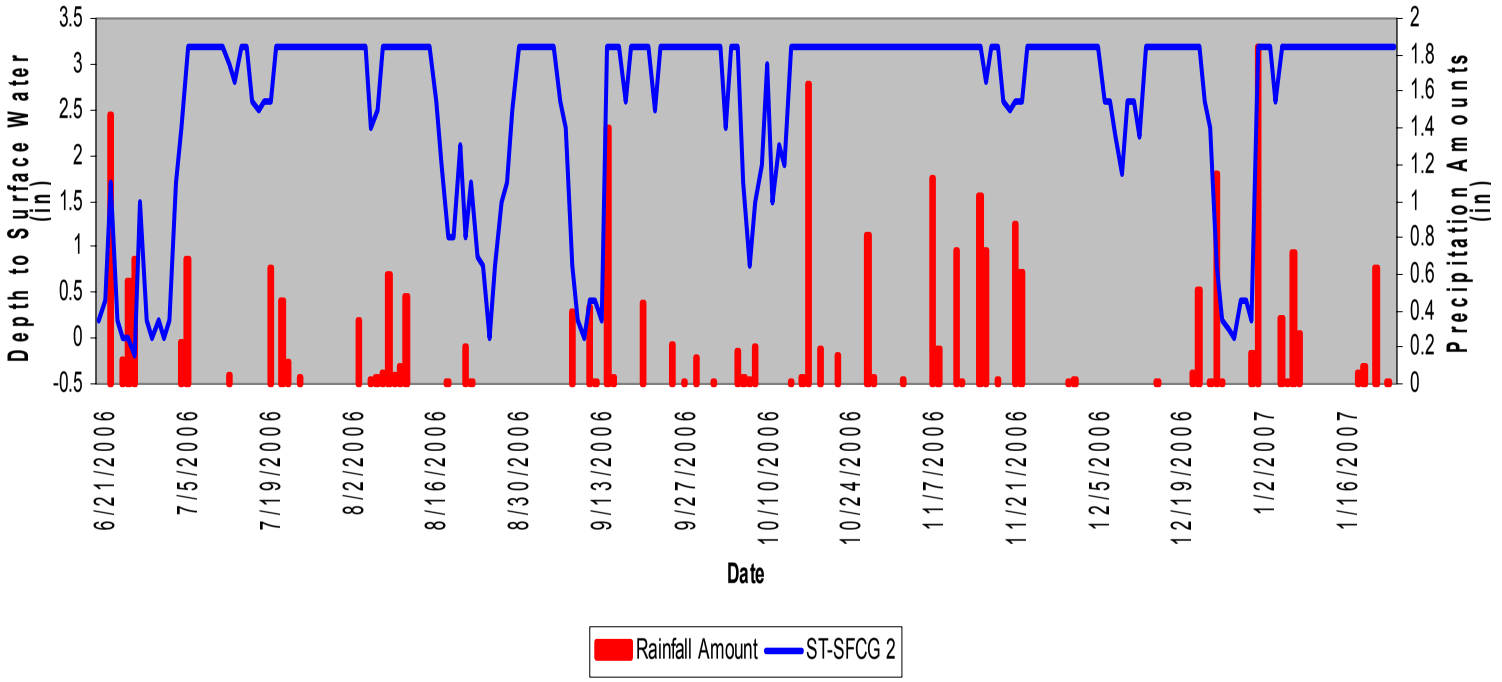
File name



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding

File name

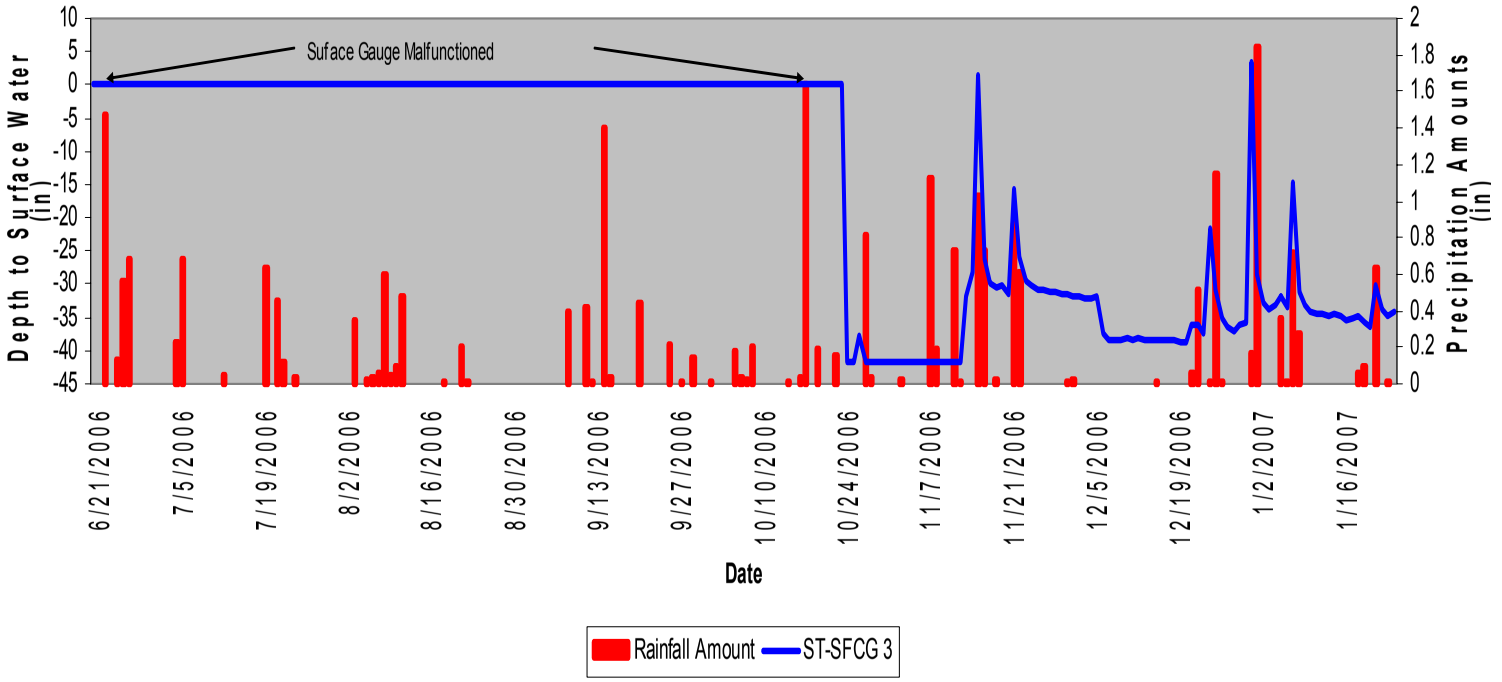
Shepherds Tree Hydrology Monitoring
Iredell County, North Carolina
Suface Gauge 2



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding

File name

Shepherds Tree Hydrology Monitoring
Iredell County, North Carolina
Surface Gauge 3



Prepared For: Ecosystem Enhancement Program	Shepherds Tree Stream and Wetland Restoration Year 2 of 5	Date: March 2007 Project No.: 333
	Appendix C2. Precipitation – Water Level Plots	Jordan Jones & Goulding

File name