

Issue Analysis Form

Date: 9/11/2018
Item: Stormwater Stream Restoration Projects
Lead Department(s): Community Development & Code Compliance, Finance
Contact Person(s): Julie Walton; Betsy Drewry



Description and Current Status

Through the Stormwater Utility Fee program, staff has identified several streams and waterways in the County that currently exhibit severe channel erosion and are affecting adjacent property owners. Most of our neighborhoods were built before stormwater regulations existed. County streams and waterways are heavily impacted by age, climate changes, heavier rainfall events, new development, and general deterioration of existing channels and vegetation.

Three of the streams identified as most severely compromised were evaluated and engineered restoration plans were developed. Construction and Bid documents were prepared and staff, with the assistance of Timmons, our contracted engineering firm, prepared and issued three (3) Invitations for Bid (IFBs) on July 19, 2018.

- Birchett Estates Reach 1 – IFB #0719-1 [Options 1 & 2; Option 2 Recommended]
- Cedar Creek Reach 2 – IFB #0719-2
- Cedar Creek Reach 5 – IFB #0719-3 [Options 1 & 2; Option 1 Recommended]

Copies of the IFBs can be viewed at:

https://www.princegeorgeva.org/departments/finance_department/procurement/bids_rfp_announcements.php

All bids closed on August 17, 2018. The bid summary results are included in this packet for board review.

Staff is recommending the completion of:

- Birchett Estates Reach 1 –Option 2 - Phase 1 Only
- Cedar Creek Reach 2 – Full Completion
- Cedar Creek Reach 5 –Option 1 Phase 1, 2 and 3 *

*Will require use of future Stormwater debt issuance

Remaining Series 2014D Stormwater bond proceeds and an awarded Department of Environmental Quality (DEQ) Grant will cover the majority of these project costs. Staff is recommending use of approximately \$300,000 in proceeds from a future Stormwater debt issuance to cover some of the costs of the Cedar Creek Reach 5 project.

A staff recommendation and funding summary is included as **Attachment A**.

Staff is requesting the board to authorize:

- Birchett Estates Reach 1 – Option 2 – Phase 1 - Award of Contract – **RiverWorks - \$725,411.00 [Resolution 1]**
- Cedar Creek Reach 2 – Award of Contract - **Fluvial Solutions - \$337,362.48 [Resolution 2]**
- Cedar Creek Reach 5 – Option 1 – Phases 1, 2 & 3 - Award of Contract – **RiverWorks - \$675,150.70 AND Reimbursement Resolution to allow use of fall 2019 bonds for part of cost [Resolutions 3 & 4]**

Draft resolutions (4) for board consideration are included in the board packet. The resolutions approve administrative execution of contracts for all three projects; the appropriation of debt proceeds for the Cedar Creek Reach 5 project; and the reimbursement resolution expressing the board's intent to reimburse capital expenditures with future Stormwater debt proceeds for the Cedar Creek Reach 5 project.

Government Path

- | | | |
|--|---|--|
| Does this require IDA action? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Does this require BZA action? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Does This require Planning Commission Action? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Does this require Board of Supervisors action? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Does this require a public hearing? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| If so, before what date? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

Fiscal Impact Statement

There is no additional fiscal impact to taxpayers; Currently assessed stormwater fees are used to meet annual Stormwater debt payments. Highlights of the Prince George County Stormwater Utility Program are attached to this form for Board review.

County Impact

Restoration of these stream corridors and channels will improve stormwater runoff and reduce erosion of adjacent properties. Replacing failing stormwater measures will also reduce risks from flooding.

Notes

Prince George County Stormwater Utility Program

Program Highlights

- Meet water quality mandates
- Neighborhood drainage improvements
- Stream stabilization
- Prevent flooding
- Watershed restoration
- Outfall ditch maintenance
- Stormwater conveyance improvements
- Identify needs for capital projects

Prince George County adopted a Stormwater Utility Fee for property owners on March 25, 2014. The fee will be billed annually with the real estate tax bills. The idea behind a stormwater utility is that stormwater management is like other public services, such as water, wastewater, and electricity, which are priced based on use. In a stormwater utility, fees are collected from residents and businesses and used for water resource improvement projects on a local level. The fees are also used to keep up with the costs of replacing and repairing aging stormwater infrastructure. Our goal is to improve Prince George County's stormwater management for all residents countywide.

Annual Rates

Residential:	\$36.00
Industrial/Commercial	
Less than 2 acres	\$180.00
2-5 acres	\$240.00
More than 5 acres	\$300.00

Stormwater management involves control of stormwater quantity and quality. Stormwater quantity management focuses on managing the volume or amount of stormwater as well as the speed of runoff. Stormwater quality management focuses on the prevention of water pollution by requiring the best management practices. Localities utilize best management practices, development policies, capital projects to construct, repair and maintain stormwater sewers, ditches, and basins, and operational practices to ensure stormwater management. The goals of these efforts are improved drainage, prevention of flood damage, and improved water quality for the County.

Questions?

Please contact Prince George County Community Development and Code Compliance Department at (804)722-8659 or email: jwalton@princegeorgecountyva.gov.

STORMWATER PROJECT RECOMMENDATIONS

ATTACHMENT A

09/11/2018

Available Funds:

Bond Proceeds Remaining from Series 2014D Stormwater Bond Issuance, Closing Date 12/2014	1,575,147.30
DEQ Grant (Cedar Creek Reach 2)	178,750.00
	1,753,897.30
Amount to reserve for small projects	(60,000.00)
Amount Available for 3 Large Projects from 2014D Bonds	1,693,897.30

STAFF RECOMMENDATION				
PROJECT COST	Birchett Estates Reach 1 [Option 2, Phase 1]	Cedar Creek Reach 2	Cedar Creek Reach 5 [Option 1, Phases 1, 2, & 3]	OPTION A TOTAL
Base Bid	725,411.00	337,362.48	675,150.70	
Engineering Fees	27,800.00	23,300.00	26,600.00	
Contingency	72,541.10	33,736.25	67,515.07	
Total Project Cost	825,752.10	394,398.73	769,265.77	1,989,416.60
VENDOR	RiverWorks, Inc	Fluvial Solutions	RiverWorks, Inc	
FUNDING EXCESS / (SHORTFALL)				(295,519.30)



RECOMMENDATION - USE PROCEEDS FROM 2019-2020 BORROWING TO FUND ADDITIONAL AMOUNT NEEDED
 BOND ATTORNEY HAS INDICATED THIS IS ALLOWABLE WITH THE ADOPTION OF A REIMBURSEMENT RESOLUTION
 FALL 2019 BORROWING PLANNED/RECOMMENDED

2019-2020 BORROWING WILL BE A STORMWATER BOND ISSUANCE AND STORMWATER FEES WILL BE USED TO PAY THE ANNUAL DEBT PAYMENTS; NO TAX IMPACT



August 21, 2018

Julie C. Walton, Director
Community Development and Code Compliance
County of Prince George, Virginia
P.O. Box 68
Prince George, Virginia 23875

Re: Birchett Estates – Reach 1
Stream Restoration

Dear Ms. Walton,

Timmons Group has reviewed and analyzed the construction services bid results for the Birchett Estates – Reach 1 Stream Restoration project. We have searched databases and found no record of any formal complaints lodged against RiverWorks, Inc.

We performed a review of the bid tabulation results and all of the line items were calculated correctly and added up to the total indicated bid amount. Based on this information, we recommend the County award this construction contract to the apparent low bidder RiverWorks, Inc., for their (Option 1) Phase 1 & 2 bid amount of \$1,120,762.65 to be completed in 140 calendar days or for their (Option 2) Phase 1 bid amount of \$725,411.00 to be completed in 86 calendar days.

If you should have any questions or need any additional information, please feel free to contact me at (804) 200-6381.

Sincerely,



Ben Snyder, EIT, WPIT
Project Engineer

cc: Betsy Drewry – Director of Finance, Prince George County

Birchett Reach 1 Option 1 (Phases 1 & 2) - Bid Comparison

Date: August 21, 2018

Total Price	
TG	RiverWorks
\$ 898,696	\$ 1,120,762
Time (days)	140

= Low Bid

*Survey stake-out & survey as-built included in RiverWorks price

Birchett Reach 1 Option 2 (Phases 1) - Bid Comparison

Date: August 21, 2018

Total Price	
TG	RiverWorks
\$ 585,729	\$ 725,411
Time (days)	86

= Low Bid

*Survey stake-out & survey as-built included in RiverWorks price



August 21, 2018

Julie C. Walton, Director
Community Development and Code Compliance
County of Prince George, Virginia
P.O. Box 68
Prince George, Virginia 23875

Re: Cedar Creek – Reach 2
Stream Restoration

Dear Ms. Walton,

Timmons Group has reviewed and analyzed the construction services bid results for the Cedar Creek – Reach 2 Stream Restoration project. We have searched databases and found no record of any formal complaints lodged against Fluvial Solutions, Inc.

We performed a review of the bid tabulation results and all of the line items were calculated correctly and added up to the total indicated bid amount. Based on this information, we recommend the County award this construction contract to the apparent low bidder Fluvial Solutions, Inc., for their bid amount of \$337,362.48 to be completed in 90 calendar days.

If you should have any questions or need any additional information, please feel free to contact me at (804) 200-6381.

Sincerely,

A handwritten signature in blue ink, appearing to be "Ben Snyder", is written over a light blue circular stamp.

Ben Snyder, EIT, WPIT
Project Engineer

cc: Betsy Drewry – Director of Finance, Prince George County

Cedar Creek - Reach 2 - Bid Comparison

Date: August 21, 2018

Total Price			
TG	RiverWorks	Fluvial	Perkinson
\$ 259,458	\$ 339,999	\$ 337,362	\$ 652,539
Time (days)	110	90	111

= Low Bid

*Survey stake-out & survey as-built included in RiverWorks price



August 21, 2018

Julie C. Walton, Director
Community Development and Code Compliance
County of Prince George, Virginia
P.O. Box 68
Prince George, Virginia 23875

Re: Cedar Creek – Reach 5 (Option 1)
Stream Restoration

Dear Ms. Walton,

Timmons Group has reviewed and analyzed the construction services bid results for the Cedar Creek – Reach 5 (Option 1) - Phases 1, 2, & 3 Stream Restoration project. We have searched databases and found no record of any formal complaints lodged against RiverWorks, Inc.

We performed a review of the bid tabulation results and all of the line items were calculated correctly and added up to the total indicated bid amount. Based on this information, we recommend the County award this construction contract to the apparent low bidder RiverWorks, Inc., for their (Option 1) - Phases 1, 2, & 3 bid amount of \$675,150.70 to be completed in 110 calendar days.

If you should have any questions or need any additional information, please feel free to contact me at (804) 200-6381.

Sincerely,



Ben Snyder, EIT, WPIT
Project Engineer

cc: Betsy Drewry – Director of Finance, Prince George County



August 21, 2018

Julie C. Walton, Director
Community Development and Code Compliance
County of Prince George, Virginia
P.O. Box 68
Prince George, Virginia 23875

Re: Cedar Creek – Reach 5 (Option 2)
Stream Restoration

Dear Ms. Walton,

Timmons Group has reviewed and analyzed the construction services bid results for the Cedar Creek – Reach 5, (Option 2) - Phase 1 Stream Restoration project. We have searched databases and found no record of any formal complaints lodged against Fluvial Solutions, Inc.

We performed a review of the bid tabulation results and all of the line items were calculated correctly and added up to the total indicated bid amount. Based on this information, we recommend the County award this construction contract to the apparent low bidder Fluvial Solutions, Inc., for their (Option 2) - Phase 1 bid amount of \$302,209.82 to be completed in 75 calendar days.

If you should have any questions or need any additional information, please feel free to contact me at (804) 200-6381.

Sincerely,

Ben Snyder, EIT, WPIT
Project Engineer

cc: Betsy Drewry – Director of Finance, Prince George County

Cedar Creek - Reach 5

Option 1 (Phases 1, 2, & 3) - Bid Comparison

Date: August 21, 2018

Total Price			
TG	RiverWorks	Fluvial	Perkinson
\$ 513,494	\$675,151	\$ 701,623	\$ 1,442,458
Time (days)	110	160	265

Low Bid

*Survey stake-out & survey as-built included in RiverWorks price

Cedar Creek - Reach 5

Option 2 (Phase 1) - Bid Comparison

Date: August 21, 2018

Total Price			
TG	RiverWorks	Fluvial	Perkinson
\$ 236,705	\$ 344,712	\$ 302,210	\$ 671,719
Time (days)	110	75	120

Low Bid

*Survey stake-out & survey as-built included in RiverWorks price

RESOLUTION 1 (STORMWATER)

Board of Supervisors
County of Prince George, Virginia

Resolution

At a regular meeting of the Board of Supervisors of the County of Prince George held in the Boardroom, Third Floor, County Administration Building, 6602 Courts Drive, Prince George, Virginia this 11th day of September, 2018:

Present:

Alan R. Carmichael, Jr., Chairman
Donald R. Hunter, Vice-Chairman
Floyd M. Brown, Jr.
Marlene J. Waymack
T. J. Webb

Vote:

A-8

On motion of _____, seconded by _____, which carried unanimously, the following Resolution was adopted:

RESOLUTION; AWARD OF CONTRACT (\$725,411 STREAM RESTORATION BIRCHETT ESTATES REACH 1 OPTION 2 – PHASE 1)

WHEREAS, On July 19, 2018 an Invitation for Bids was advertised by CDCC and the Finance Department to obtain pricing for Stream Restoration at Birchett Estates Reach 1 (IFB 19-0719-1). The bid closed on August 17, 2018 with one response. The lowest responsive bid for Option 2 (Phase I only) was received from **River Works Restoration, Inc.** in the amount of \$725,411; and

WHEREAS, \$725,411 is available in the Stormwater fund from Series 2014D bonds issued in December of 2014; and

WHEREAS, Staff is requesting authorization for the County Administrator to enter into a contract with River Works Restoration, Inc. in the amount of \$725,411 to move forward with the stream restoration project Birchett Estates Reach 1, Option 2 – Phase 1.

NOW, THEREFORE, BE IT RESOLVED That the Board of the Supervisors of the County of Prince George this 11th day of September, 2018, hereby awards the bid for Option 2 – Phase 1 of the Birchett Estate Reach 1 stream restoration project to River Works Restoration, Inc. in the amount of \$725,411 and authorizes the County Administrator to execute a contract with River Works Restoration, Inc.

A Copy Teste:

Percy C. Ashcraft
County Administrator