

# FINAL PROJECT REPORT

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## Goodall Brook Watershed Restoration Project, Phase I – #2016RT08



**Grantee:** City of Sanford

**Contact:** Matthew E. Hill, P.E., Director of Public Works

**Project Manager:** Whitney Baker, York County Soil & Water Conservation District

**Project Start Date:** June 1, 2016

**Date FPR Submitted:** December 31, 2018



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## I. Project Overview

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### Project Background & Purpose

The Goodall Brook watershed covers 0.76 square miles (489 acres) in the City of Sanford. The headwaters of the 1.5-mile stream are located in a forested area along Hanson Ridge Road. At Grandview Avenue, the stream is diverted into a series of pipes and then flows nearly 2,000 feet underground until it emerges at Lebanon Street. It then flows southeast through a commercial and residentially developed area before entering a large forested wetland and converging with the Great Works River. The Great Works River flows into Bauneg Beg Lake located in Sanford and North Berwick, ME.

The watershed is predominantly developed, with 321 acres (66%) of the watershed consisting of residential or commercial land uses. There are approximately 132 acres (27%) of forest land in the watershed, located primarily in the northern portion of the watershed. Impervious cover totals approximately 23.7% (138 acres) of the Goodall Brook watershed.

Goodall Brook was first assessed by the Maine DEP in 2004, and it was determined that the stream does not meet its Class B aquatic life criteria. As a result, DEP listed Goodall Brook as impaired on its 2012 303(d) list (Maine DEP, 2012). Subsequent monitoring also indicates that the brook does not meet applicable criteria for dissolved oxygen or bacteria concentrations. Goodall Brook was included in the Maine DEP Impervious Cover TMDL (2012).

Goodall Brook, while a relatively small urban stream, carries with it a high resource value. The extent of uses by the public include a network of trails including those in Soldiers and Sailors Park, several additional public access points and private ROW. City-owned land at Seneca and Park Street borders Goodall Brook and is also accessible to the public. There is a healthy brook trout fishery in the lower reaches of the stream and brook trout were also observed in 2015 during DEP Biomonitoring work in the upper reaches. Most importantly, the stream flows into the Great Works River, one of the major tributaries to Bauneg Beg Lake in Sanford, which has over 200 lakefront homes, a summer camp and a town park. From the lake, water flows in to the Salmon Falls River (a drinking water supply for towns in ME and NH), and into Great Bay and finally the Atlantic Ocean. Since 2004, several groups have collected water quality data from different monitoring stations along Goodall Brook. The Great Works River Watershed Coalition and volunteers from Bauneg Beg Lake Association collected data at Roberts Street in 2004 and 2006. Maine DEP has collected biological and water quality data at two stations through its Biomonitoring Program. Maine DEP and York County SWCD also collected data at seven monitoring stations to better understand the stream and possible stressors through their watershed planning process.

Stakeholders in the Goodall Brook watershed have been working toward restoring water quality and aquatic habitat for over a decade. In 2007, as part of the Northern Great Works River Watershed Improvement Project, Phase 1 (#2006R-2) invasive plants were removed and native vegetation was planted along 280 feet of Goodall Brook. In 2008, the Goodall Brook Survey and Hotspot ID Project (#2007PP09) identified problem areas and restoration opportunities in the watershed and along the stream corridor. Bauneg Beg Lake Association (BBLA) raised funds and coordinated the installation of three tree box filters on Roberts Street in 2011. The tree box filters treated polluted runoff from the parking areas at the Sanford Mainers baseball stadium. From 2012 to 2014, The City and York

County Soil & Water Conservation District (YCSWCD) coordinated a 604(b) grant project (#2012RT17) to conduct monitoring and develop a watershed-based plan for the Goodall Brook watershed. As a result, The Goodall Brook Oversight Committee formed to guide the process of watershed plan implementation. From 2015 to 2017, The City of Sanford and YCSWCD were awarded a 319 watershed grant for the implementation of the Goodall Brook Watershed Plan. The Goodall Brook Watershed Restoration Project, Phase I (2016RT08) focused on water quality monitoring, watershed outreach and education, local ordinance development, and the installation of 5 high and medium priority stormwater retrofits and habitat improvement projects as identified in the Watershed Based Plan.

The primary purpose of this project was to significantly reduce the pollutant load to Goodall Brook through implementation of stormwater BMPs that reduce the export of untreated stormwater into the Brook. Stormwater retrofit projects that reduce polluted runoff were constructed at 5 sites in the watershed reducing Goodall Brook's pollutant load by an estimated 4.8 tons of sediment and 23.5 pounds of phosphorus, annually. The Restoration Project also included the development of drafted amendments to the City's stormwater and erosion control standards. In addition, the project raised awareness about water quality problems and worked to foster long-term stewardship in the Goodall Brook Watershed.

## Project Highlights

### Successes:

From the onset of the project, there has been a great level of support and interest on the part of the Goodall Brook Restoration Committee and the project stakeholders. The outreach and education task was particularly successful as project staff along with volunteers from Bauneg Beg Lake Association (BBLA) and the Sanford High School Environmental Science Club conducted three (3) highly attended storm drain stenciling events, one (1) invasive species removal event, and a project celebration/sign reveal event. These events, combined, directly reached about 40 people, and generated over \$3,300 in local match. In addition, 3 news articles were published in the local newspaper throughout the course of this project.

Water quality monitors from BBLA and the Sanford High School Environmental Science Club collected a total of 30 E. coli grab samples, and assessed the dissolved oxygen, temperature and conductivity in Goodall Brook on 11 sampling days across three (3) monitoring locations in 2017 and 2018.

Sanford Department of Public works designed and installed four (4) large stormwater retrofit projects and coordinated the installation of a habitat restoration project where woody debris (root wads) were added to a 200-foot-long portion of Goodall Brook. The installed BMPs now prevent an estimated 4.8 tons of sediment, 23.5 pounds of phosphorus, and 74 pounds of nitrogen from entering Goodall Brook annually. Over 10 acres of impervious surface area is now treated by BMPs.

City of Sanford's Planning and Engineering Departments have been working to draft ordinance amendments to their existing stormwater and erosion control standards. Though initially targeted toward properties within the Goodall Brook watershed, the proposed amendments strengthen these standards as City-wide requirements.

Sanford's Department of Public Works provided additional match to the project by removing invasive Japanese Knotweed that was encroaching on the FocalPoint biofilter installed at the Little League Park parking lot. In 2018 DPW removed the knotweed in the immediate area surrounding the installed BMP and installed rubber roofing material and riprap to prevent future growth. Protection of the FocalPoint BMP from the invasive knotweed added an additional \$3,000 in cash match to the project.

This project exceeded it's intended match goal of \$63,775 with a final match total of \$66,493.47.

#### Problems:

Adaptive management skills came into play during a large construction project on Roberts Street in the summer of 2017 that allowed for the completion of two (2) NPS abatement sites in this area. However, this major construction extended longer than expected and delayed the completion of the remaining three (3) NPS abatement projects. This resulted in a project extension request through October 2018.

The proposed buffer restoration project was not implemented during this phase due to the presence of invasive Japanese knotweed growing within the project area. The proposed buffer is located adjacent to the constructed FocalPoint biofilter BMP installed in 2017. Project staff and volunteers removed the plants from the riparian area of Goodall brook two (2) times during this project, and it grew back each time. In a final attempt to control the spread of the invasive species into the adjacent FocalPoint biofilter media, the City's Public Works Department removed the plants a third time and covered the area with rubber roofing material and riprap. This method is meant to be temporary and will remain until project staff can confirm that the invasive species will not encroach into the biofilter and damage the filter bed media.

#### Key personnel:

Project Key Personnel consisted of YCSWCD staff Theresa Galvin (former Project Manager, 2016-2017) and Whitney Baker (current Project Manager, 2018). Staff from ME DEP who was integral to this project was Wendy Garland and John Maclaine. Key project partners from the City of Sanford were Matthew Hill, P.E. (Director of Public Works), Michael Casserly (City Engineer), Beth Della Valle (Director of Planning), and Andre Brousseau (Sanford Sewerage Department). Dana Petersen of the Bauneg Beg lake Association and Bath Marass, Science teacher from Sanford High School (and her students) were also an important part of this project and heavily involved in the outreach and water quality monitoring tasks.

#### Changes in scope of the project as a whole:

No changes to the scope of this project occurred.

## II. Task Summary

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### Task 1 – Project Management

The City of Sanford and ME DEP signed a grant agreement in July 2016 with the project officially encumbered July 13, 2016. The City of Sanford Signed a contract MOU with YCSWCD for their services effective July 15<sup>th</sup>, 2016. YCSWCD Project Manager tracked project expenses, match, carried out invoicing, and completed four (4) semi-annual progress reports and one (1) final project report.

### Task 2 – Goodall Brook Restoration Committee

The Goodall Brook Restoration Committee met five (5) times over the course of the project. Meetings were held in the Planning Department Conference room at Sanford City Hall. The Goodall Brook Restoration Committee members included:

- Theresa Galvin, YCSWCD, former
- Whitney Baker, YCSWCD, current
- Wendy Garland, MEDEP
- John Maclaine, MEDEP
- Matthew Hill, P.E., Sanford Director of Public Works
- Michael Casserly, P.E., Assistant City Engineer
- Beth Della Valle, Director of Planning and Development
- Nancy Lebrun, AA Sanford Public Works Department
- Andre Brousseau, Sanford Sewerage Department
- Beth Marass, Sanford High School
- Dana Petersen, Bauneg Beg lake Association

### Task 3 – Water Quality Monitoring

The YCSWCD Quality Assurance Program Plan (QAPP) for monitoring rivers and streams in Maine was submitted and approved by MEDEP with an effective date of August 2<sup>nd</sup>, 2017. The water quality monitoring program for Goodall Brook focused on the portion of Brook between Roberts Street and Berwick Road where several of the proposed BMPs were installed, and where the stream experiences problems with habitat, dissolved oxygen and bacteria. The goal of the water quality monitoring was to build on the data collected during watershed plan development, and to detect water quality improvements over time. A Sampling and Analysis Plan (SAP) was submitted to DEP by YCSWCD on May 3<sup>rd</sup>, 2018 for the 2018 monitoring season.

Sampling was performed by volunteers from the BBLA and students from Sanford High School under the supervision of educator Beth Marass. Dissolved oxygen, temperature and specific conductivity measurements were collected under various weather conditions to understand the presence, duration and extent of water quality problems. E. coli grab samples were collected at three (3) sites, four (4) times in 2017 and (6) times in 2018 for a total of 30 samples collected in the two years sampled. Laboratory analysis for E. coli was conducted by staff at the Sanford Sewerage District. A summary report was produced by YCSWCD and submitted to MEDEP on December 12, 2018 and is included in the Deliverables Summary in Section III of this report.

It will be important to continue monitoring dissolved oxygen, temperature and conductivity in Goodall Brook following the completion of the stormwater BMP projects in October of 2018. Stormwater from over 10 acres of impervious surfaces is now treated as a result of the stormwater projects completed during the Goodall Brook Watershed Restoration grant. The two sites treating the highest amount of impervious area were not completed until after the 2018 sampling season had come to an end. Monitoring in the coming years will be crucial to understand BMP effectiveness.

#### **Task 4 – Education & Outreach**

Education and outreach initiatives were developed and designed to engage and educate the local community, students, partner organizations and stakeholders in the Goodall Brook watershed. Participation of Sanford High School's Biology and Environmental Science teacher, Beth Marass, and her students in this effort were vital in the successful completion of this task.

On October 15, 2016, Sanford High School students, Sanford Public Works Department and key project stakeholders conducted storm drain stenciling in the Goodall Brook Watershed. Beth Marass and her students conducted two (2) additional outings on October 21 and October 24 to complete stenciling at a total of all storm drains within the watershed in 2017.

On April 29, 2017, students spent a Saturday afternoon removing Japanese Knotweed from a 200-foot portion of stream bank on Goodall Brook adjacent to the Little League Park parking lot. Students removed the invasive knotweed and covered the banks with thick carpeting that was donated to the project for the purpose of preventing new growth. In addition to invasive species removal, students also removed a large amount of trash and other debris from Goodall Brook and surrounding riparian areas.

In April and May 2018, project staff and Sanford high School students designed an informational sign that was installed at the Roberts St. tree box filters and Focal Point installation in the Little League Park parking lot. On June 9, 2018 a public event was held at this location to celebrate restoration efforts in the Goodall Brook Watershed. Watershed residents, key stakeholder groups, project staff and Sanford's Deputy Mayor attended the event where the informational sign was unveiled, and the stormwater installations were viewed. Small shrubs were planted in the new tree box filters on Roberts Street that also contain the FocalPoint media to further capture pollutants before entering Goodall Brook.

Press releases (3 total) and news articles (3 total) were written and submitted for all of the above events and activities and are included in the Deliverables Summary in Section III of this report.

#### **Task 5 – NPS Abatement Projects**

The City of Sanford developed site designs and provided labor & equipment, and additional cash match for the construction of four (4) Stormwater Retrofit Projects and one (1) woody debris/habitat restoration project. The YCSWCD Project Manager assisted with overall management of BMP installation, permitting, budgeting, and required DEP reports.

**Three (3) Tree Box Filters on Roberts Street** - The 3 tree box filter structures were cleaned out, reset, filled with the FocalPoint biofiltration media that was covered with a layer of mulch. New trench drain structures were installed at each tree box filter to bring runoff from the street gutter line underneath the sidewalk and into the structure. These trench drains provide pre-treatment of trash and sediment.

**FocalPoint at Little League Park** – Prior to construction, unrestricted sheet flow from the Little League Park parking lot flowed into Goodall Brook due to lack of stormwater management and an inadequate stream riparian buffer zone. Sediment regularly collected in large amounts at the southwestern corner of the parking lot and washed into Goodall Brook during large rain events. As part of a larger City project on Roberts Street, the parking was reconstructed. The lot was regraded and paved, and a precast concrete curb was installed along Roberts Street to prevent runoff from the asphalt parking lot from exiting onto Roberts Street. The new grade of the parking lot allowed for the installation of a High Performance Modular Bioretention System (HPMBS) (a.k.a. FocalPoint) adjacent to Goodall Brook at the northwest corner to treat runoff and attenuate nutrients. A pre-treatment structure or forebay (aka Rain Guardian) was also installed to simplify maintenance and extend the life of the system. The Roberts Street FocalPoint treats high-use impervious surface area of approximately 0.97 acres (42,253 sq. ft.).

**West Elm Street Outfall** - Prior to construction, an existing 24-inch reinforced concrete pipe that extends down West Elm Street from its intersection with Main Street discharged at an outfall at the corner of West Elm Street and Seneca Avenue. The structures within this drainage run have either no sumps or inadequate sediment trapping sumps for catching sediment for removal. The 24-inch reinforced concrete culvert outfall discharges to an existing riprap plunge pool and has created a channel through the wooded buffer and into wetland that is located in the Goodall Brook overbank. This stormwater drainage network services an area of approximately 5.64 acres. High volumes of stormwater move through the West Elm Street drainage system. In 2018, an in-line splitter chamber structure with dual compartments and deep sumps was installed under West Elm Street, accessible by manhole covers for sediment cleanout and maintenance. For large storms, this structure conveys bypass flow from the existing 24-inch diameter concrete pipe inlet and into the existing 24-inch outlet. Normal/low flows are conveyed through a 12" ADS HDPE culvert discharging low flow and first flush flow to an energy dissipator pool and level lip spreader installed on the adjacent property owned by City of Sanford to the NE of the existing outfall. The existing plunge pool and riprap swale at the outlet of the existing 24-inch RCP was cleaned and rehabilitated.

**Kimball Street Outfall** – Prior to construction, stormwater from Kimball Street discharged from an 18-inch outfall located on the bank of Goodall Brook. Stormwater discharge had scoured and eroded the streambank significantly leaving an approximately 4-foot-high scour or overhang between the culvert and the stream bank. This scour prevented the establishment and continuity of habitat along the embankment toe and stream bed. In 2018, a two-stage concrete splitter structure was installed near the top of the embankment with a 3-foot deep sump. A 6-inch PVC perforated pipe over geotextile fabric embedded in 12-inch minus riprap was installed to convey small flows of stormwater. Similarly, an 18-inch perforated HDPE bypass culvert outlet from the top of the structure was installed and also embedded in riprap to convey larger storm flows. Both outfalls are angled downstream just above the stream bed elevation. Outfall areas are armored and stabilized with riprap over fabric to prevent future scour.

**Woody Debris Installation** - Three (3) Hemlock root wads with attached trunks (~12 ft.) were installed into the bank of Goodall Brook. Oriented diagonally into the embankment such that the roots point upstream, the tree trunk were embedded into the embankment in attempt to improve sinuosity and habitat diversity. The exposed root wads will capture woody debris and sediment creating log steps, pools and complexity in the channel to ultimately narrow the channel and increase depths and velocities during the low flow summertime period.

## Task 6 – Pollutant Reductions

YCSWCD Project manager estimated the NPS pollutant load reductions for the Roberts Street tree box filters and the FocalPoint installation following construction in 2017. The reductions were calculated for the Kimball Street outfall project and the West Elm Street outfall project in 2018. Pollutant reductions were not calculated for the woody debris installation. A total of 4.8 tons/year of sediment, 23.5 pounds/year of phosphorus, and 74 pounds/year of nitrogen.

Pollutant reductions by site are as follows:

Site	Sediment (tons/yr.)	Phosphorus (lbs./yr.)	Nitrogen (lbs./yr.)
Tree Box Filters	0	1.4	4.3
FocalPoint	0.5	2.4	10.6
Kimball St. Outfall	1.6	6.9	0
West Elm St. Outfall	2.7	12.8	59.1
<b>TOTAL</b>	<b>4.8</b>	<b>23.5</b>	<b>74</b>

## Task 7 – Ordinance Development

City of Sanford Planning Department staff have been working to make amendments to the City's stormwater and erosion control standards. Beyond drafting the ordinance amendments, Planning Department staff have conducted community outreach to watershed stakeholders and residents, held a planning board workshop, created an email mailing list to provide updates to the stakeholder group, and formed an Advisory Committee to help guide this task forward.

Planning Board meetings where this project was discussed in detail were held on 04/03/2017, 03/02/2018, 03/27/2018, and 09/14/2018. A Planning Board workshop to go over proposed ordinance goals and amendments was held on 03/07/2018. Draft ordinance amendments were presented to the planning board at the 09/14/2018 meeting and work is ongoing toward a final ordinance draft. The most recent ordinance drafts were submitted to DEP along with the Ordinance Task Summary memo provided by YCSWCD on 12/12/2018 as outlined in the Deliverables Summary in Section III of this report.

A total of \$5,640.10 of in-kind match funds were provided to this project through Planning and Engineering Department staff time spent drafting the ordinance amendments and coordinating with the City's Planning Board.

### III. Deliverables Summary

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- NPS Site Tracker Tool – 11/19/2018
- Contract – July 2016
- Subcontract with YCSWCD – November 2016
- Semi-annual progress reports
  - 1 – November 15, 2016
  - 2 – May 15, 2017
  - 3 – November 15, 2017
  - 4 – May 15, 2018
- Final Project Report – December 2018
- Water Quality Monitoring Results Summary – December 12, 2018
- Approved Water Quality Sampling QAPP – August 2017
- Annual SAPs – May 3, 2018
- Press Releases
  - Storm drain stenciling event press release – 10/06/2016
  - Invasive species/buffer restoration press release – 4/29/2017
  - Goodall Brook restoration project / sign reveal press release – 6/1/2018
- Newspaper and/or Web Articles
  - “Students Join Effort to Restore Goodall Brook” – Sanford News 10/20/2016
  - “Think Before you Drain” – Journal Tribune 11/05/2016
  - “Students Spend a Saturday Cleaning Goodall Brook” – Fosters 05/11/2017
  - “Celebrating a Decade of Watershed Protection in Goodall Brook” – Seacoast Online 06/28/2018
- NPS Site Reports – November 6, 2018 and November 7, 2018.
- PCRs
  - December 2017 (FocalPoint & Tree Box Filters)
  - October 2018 (Kimball Street Outfall, West Elm Street Outfall, & Woody Debris)
- Summary of changes to local ordinances – December 12, 2018

### IV. Project Outcomes

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#### Major Outcomes

1. A total of five (5) NPS abatement sites were treated with BMPs resulting in a total of 23.5 lbs. of phosphorus, 4.8 tons of sediment, and 74 lbs. of nitrogen removed from Goodall Brook annually. The combined drainage areas for these sites treats stormwater flowing within 11 acres of land within the watershed.
2. A habitat restoration project was completed in a 200-foot section of Goodall Brook inserting woody debris into the stream to provide critical habitat that was previously non-existing in this portion of Goodall Brook due to stream alteration and impacts from development.
3. Project monitoring staff collected two years of water quality data to be added to the data bank for Goodall Brook and will help watershed and natural resource managers develop and study water quality trends for the brook. Monitors collected dissolved oxygen, temperature, and conductivity data over 11 days in the 2017 and 2018 seasons. 30 grab samples were collected and tested for bacteria (E. coli) during the study period.
4. A 4-foot x 8-foot sign was installed adjacent to the Roberts Street FocalPoint and tree box filters. The sign provides information about the Goodall Brook Watershed, watershed and

water quality projects, and the BMPs installed at this location. The sign is highly visible to anyone visiting Little League Park, the adjacent basketball courts, Benton Playground, and neighboring Goodall Park/Sanford Mainers Stadium.

5. Project volunteers stenciled all storm drains within the Goodall Brook Watershed.
6. City of Sanford Planning and Engineer Departments provided over \$5,000 of in-kind match developing draft amendments to the City’s existing stormwater and erosion control standards.

## Environmental Outcomes

1. A total of 4.8 tons of sediment, 23.5 pounds of phosphorus, and 74 pounds of nitrogen per year is no longer impacting Goodall Brook due to the BMPs installed at four (4) high-priority sites.

## Lessons Learned

1. Though this project was highly successful and exceeded many of its goals, it did require an extension in order complete the construction of three (3) stormwater retrofit projects. This was largely due to unforeseen changes to the timeline of a scheduled City project in 2017 within the watershed. However, some of the planning and design work occurred during the final year of this project as well - pushing construction into the Fall of 2018, and highlighting the importance of BMP site planning in the early stages of the project.
2. It was important to recognize that the success of the FocalPoint Treatment on Goodall Brook was dependent upon the complete removal of the Japanese Knotweed (which is known to be difficult). By failing to have an adequate plan or approved removal method, attempting this experimental procedure jeopardized the subsequent program treatments. There did not appear to be recognition of this potential scenario in the grant agreement thus leading to the rubber roofing treatment as an extreme, costly, and unsustainable measure of last resort. The rubber roofing will need to be removed in the future by the City of Sanford. To this end, the City’s Public Works Director attended the NOFA Organic Land Care course in the Fall of 018 and specifically investigated responsible Japanese Knotweed removal methods. The recommended method will be forwarded to MaineDEP for review and will require a licensed professional for which the City will seek in the meantime.

## V. Summary of Total Expenditures

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	<u>NPS Grant</u>	<u>Non-Federal Match</u>
Grant Agreement Amount	<u>\$84,526.00</u>	<u>\$63,775.00</u>
Funds Expensed	<u>\$84,526.00</u>	<u>\$69,685.47</u>
Funds Balance	<u>\$0.00</u>	<u>\$-5,910.47</u>

## VI. Non-federal Match Documentation / Certification

### Non-Federal Match Documentation / Certification

NPS Grants Program, Maine Department of Environmental Protection

Grantees need to document matching funds or services contributed to the project. The amount of match required is listed under 'Budget Information' in the project work plan. Grantees must submit this form as part of the Final Project Report to certify that match has been properly documented before closeout of the Grant Agreement.

To efficiently meet documentation requirements, Grantees should accumulate match information as the project proceeds and record information in a table. See *Nonpoint Source Grant Administrative Guidelines* (2016) Appendix A for an example. The following information is needed to adequately document match.

1. Source. Identify the source of the funds or services;
2. Activity. Describe the activity and the amount of activity; and
3. Valuation. Describe the basis for assigning the amount of dollar value to the activity.

Important: This signed certification form must be accompanied by supporting information that documents (source, activity and valuation) the matching funds or services claimed by the Grantee. The Certification Statement alone is not sufficient to document the non-federal match.

#### GRANTEE INFORMATION:

Grantee Name: City of Sanford  
Address: 919 Main Street  
Sanford, ME  
Telephone: 207-324-9135  
Contact Person: Matthew E. Hill, P.E. – Director of Public Works

#### PROJECT INFORMATION:

Project #: #2016RT08  
Project Title: Goodall Brook Watershed Restoration Project, Phase I

Match Amount Planned Under the Grant Agreement: \$63,775.00  
Match Amount Claimed: \$69,685.47

#### CERTIFICATION STATEMENT:

I certify that the non-federal match summarized in the attached information was expended in the course of completing work described in the Grant Agreement for the Project referenced above. Supplemental match documentation is available for review in Grantee files.

Signature of Grantee – Authorized Official

Date

**Attachment 1 –**  
Goodall Brook Watershed Restoration Project, Phase I (#2016RT08) Match Spreadsheet

DATE	NAME	Group	Task #	Activity	#HRS	Hrly Rate	Total	#MILES	MILEAGE (\$0.44)	Total (Hrs plus Mileage)
8/31/2016	Andre Brousseau	SSD	2	Oversight committee meeting	2	\$ 50.00	\$ 100.00		0	\$ 100.00
8/31/2016	Beth Della Valle	Planning Dept.	2	Oversight committee meeting	2	\$ 53.00	\$ 106.00		0	\$ 106.00
8/31/2016	Beth Marass	Sanford HS	2	Oversight committee meeting	2	\$ 21.61	\$ 43.22		0	\$ 43.22
8/31/2016	City of Sanford	City of Sanford	2	Use of Council Chambers			\$ 200.00		0	\$ 200.00
8/31/2016	Dana Peterson	BBLA	2	Oversight committee meeting	2	\$ 21.61	\$ 43.22		0	\$ 43.22
8/31/2016	M. Casserly	Sanford DPW	2	Oversight committee meeting	2	\$ 50.00	\$ 100.00		0	\$ 100.00
8/31/2016	M. Hill	Sanford DPW	2	Oversight committee meeting	2	\$ 67.00	\$ 134.00		0	\$ 134.00
9/30/2016	M. Casserly	Sanford DPW	5	NPS Site visits	2	\$ 50.00	\$ 100.00		0	\$ 100.00
10/5/2016	Beth Della Valle	Planning Dept	4	Stenciling event planning including press release	4	\$ 53.00	\$ 212.00		0	\$ 212.00
10/6/2016	Beth Della Valle	Planning Dept	4	Refinement and distribution of press release	0.5	\$ 53.00	\$ 26.50		0	\$ 26.50
10/7/2016	M. Casserly	Sanford DPW	4	Planning for storm drain stenciling event	1	\$ 50.00	\$ 50.00		0	\$ 50.00
10/11/2016	CASH MATCH	Sanford DPW	4	Paint - Sherwin williams - for stormdrain stenciling			\$ 252.00		0	\$ 252.00
10/12/2016	M. Hill	Sanford DPW	4	Picking up and delivering materials such as paint and stencils	1	\$ 67.00	\$ 67.00		0	\$ 67.00
10/13/2016	CASH MATCH	Sanford DPW	4	4 Additional Stencils for CB Marking - Welch Signs			\$ 239.99		0	\$ 239.99
10/15/2016	BBLA volunteers	BBLA	4	Storm drain stenciling event	12	\$ 21.61	\$ 259.32		0	\$ 259.32
10/18/2016	Beth Della Valle	Planning Dept	4	Refinement of Report & Presentation to City Council re status of project	0.25	\$ 53.00	\$ 13.25		0	\$ 13.25
10/18/2016	Beth Della Valle	Planning Dept	4	Preparation of Press Packet regarding stenciling project	0.5	\$ 53.00	\$ 26.50		0	\$ 26.50
10/18/16	Beth Della Valle	City Council	4	status report on project	1.75	\$ 53.00	\$ 92.75		0	\$ 92.75
10/19/2016	Beth Della Valle	Planning Dept	4	Preparation of Web Announcement re stenciling project	0.25	\$ 53.00	\$ 13.25		0	\$ 13.25
10/20/2016	Beth Della Valle	Planning Dept	4	Review/distribution of newspaper article re stenciling project	0.25	\$ 53.00	\$ 13.25		0	\$ 13.25
10/27/2016	Beth Della Valle	Planning Dept	4	Preparation of memo responding to question raised by City Council at presentation of status of project	0.5	\$ 53.00	\$ 26.50		0	\$ 26.50
11/1/2016	Beth Della Valle	Planning Dept	4	Discussion with report about stenciling project	0.25	\$ 53.00	\$ 13.25		0	\$ 13.25
11/7/2016	Barbara Bucklin	Planning Dept	4	Preparation of Web Announcement re stenciling project	0.5	\$ 50.00	\$ 25.00		0	\$ 25.00
11/8/2016	Beth Della Valle	Planning Dept	4	Review/distribution of newspaper article re stenciling project	0.25	\$ 53.00	\$ 13.25		0	\$ 13.25
2/17/2017	M. Casserly	DPW	5	Emails with Focal Point vendor for meeting	0.50	\$ 50.00	\$ 25.00		0	\$ 25.00
2/20/2017	M. Casserly	DPW	5	Meet w Brook abutter, email summary	0.75	\$ 50.00	\$ 37.50		0	\$ 37.50
2/22/2017	M. Casserly	DPW	5	Emails with Focal Point vendor for meeting	0.50	\$ 50.00	\$ 25.00		0	\$ 25.00
2/27/2017	Andre Brousseau	SSD	2	Oversight committee meeting	2	\$ 50.00	\$ 100.00		0	\$ 100.00
2/27/2017	Beth Della Valle	Planning Dept	2	Oversight committee meeting	2	\$ 53.00	\$ 106.00		0	\$ 106.00
2/27/2017	Beth Marass	Sanford HS	2	Oversight committee meeting	2	\$ 21.61	\$ 43.22		0	\$ 43.22
2/27/2017	City of Sanford	City of Sanford	2	Use of Council Chambers			\$ 200.00		0	\$ 200.00
2/27/2017	Dana Peterson	BBLA	2	Oversight committee meeting	2	\$ 21.61	\$ 43.22		0	\$ 43.22
2/27/2017	M. Casserly	Sanford DPW	2	Oversight committee meeting	2	\$ 50.00	\$ 100.00		0	\$ 100.00
2/27/2017	M. Casserly	DPW	5	Emails with Focal Point vendor for meeting	0.25	\$ 50.00	\$ 12.50		0	\$ 12.50
2/27/2017	M. Hill	Sanford DPW	2	Oversight committee meeting	2	\$ 67.00	\$ 134.00		0	\$ 134.00

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DATE	NAME	Group	Task #	Activity	#HRS	Hrly Rate	Total	#MILES	MILEAGE (\$0.44)	Total (Hrs plus Mileage)
2/27/2017	Tom Burns	Sanford GIS	2	Oversight committee meeting	2	\$ 65.00	\$ 130.00		0	\$ 130.00
3/8/2017	Beth Della Valle	Planning Dept	7	Meeting with Dana Peterson to review potential ordinance provisions	1.5	\$ 53.00	\$ 79.50		0	\$ 79.50
3/8/2017	Dana Peterson	BBLA	7	Meeting with Beth DellaValle to review potential ordinance provisions	1.5	\$ 21.61	\$ 32.42		0	\$ 32.42
3/31/2017	Beth Della Valle	Planning Dept	7	Prepare materials for Planning Board discussion of potential ordinance provisions	0.5	\$ 53.00	\$ 26.50		0	\$ 26.50
4/5/2017	Beth Della Valle	Planning Board	7	Prepare materials for Planning Board discussion of potential ordinance provisions	1.75	\$ 53.00	\$ 92.75		0	\$ 92.75
4/5/2017	Planning Board (6 members)	Planning Dept	7	Prepare materials for Planning Board discussion of potential ordinance provisions	3	\$ 21.61	\$ 64.83		0	\$ 64.83
4/17/2017	Beth Marass	Sanford HS	5	Designing brochure and sign for Goodall Brook	4.00	\$ 21.61	\$ 86.44		0	\$ 86.44
4/17/2017	Dana Peterson	BBLA	4	Outreach for buffer restoration project	2	\$ 21.61	\$ 43.22		0	\$ 43.22
4/17/2017	SHS students	Sanford HS	5	Designing brochure and sign for Goodall Brook	6.00	\$ 21.61	\$ 129.66		0	\$ 129.66
4/25/2017	M. Casserly	DPW	2	Oversight Committee Meeting	2.00	\$ 50.00	\$ 100.00		0	\$ 100.00
4/25/2017	M. Casserly	DPW	4	Attend/speak at YCSWCD meeting on GB project	1.00	\$ 50.00	\$ 50.00		0	\$ 50.00
4/28/2017	M. Casserly	DPW	5	Meet Focal Point Vendor on site	1.00	\$ 50.00	\$ 50.00		0	\$ 50.00
4/28/2017	M. Hill	DPW	5	Meet Focal Point Vendor on site	1.00	\$ 67.00	\$ 67.00		0	\$ 67.00
4/29/2017	Beth Marass	Sanford HS	5	Attend stream buffer restoration project	3.00	\$ 21.61	\$ 64.83		0	\$ 64.83
4/29/2017	M. Casserly	DPW	5	Deliver equipment for buffer enhancement volunteers	2.00	\$ 50.00	\$ 100.00		0	\$ 100.00
4/29/2017	SHS students	Sanford HS	5	Attend stream buffer restoration project	53.00	\$ 21.61	\$ 1,145.33		0	\$ 1,145.33
5/10/2017	M. Casserly	DPW	5	Pick up excess buffer cover material for disposal	1	\$ 50.00	\$ 50.00	2.2	0.968	\$ 50.97
7/9/2017	M. Casserly	DPW	5	Meet John Fields and MDEP personnel	1.5	\$ 50.00	\$ 75.00	2.2	0.968	\$ 75.97
8/24/2017	M. Hill	DPW	5	Meet with ACF and Review Scope and Materials	2	\$ 67.00	\$ 134.00		0	\$ 134.00
8/29/2017	M. Hill	DPW	1	Review of Grant Administrative Guidelines	4	\$ 67.00	\$ 268.00		0	\$ 268.00
8/30/2017	M. Hill	DPW	1	Review of Grant Administrative Guidelines	2	\$ 67.00	\$ 134.00		0	\$ 134.00
9/1/2017	M. Hill	DPW	5	Draft Construction Plan	6	\$ 67.00	\$ 402.00		0	\$ 402.00
9/4/2017	M. Hill	DPW	5	Draft Construction Plan	4	\$ 67.00	\$ 268.00		0	\$ 268.00
9/5/2017	M. Hill	DPW	5	Draft Construction Plan & Submit to T. Galvin	2	\$ 67.00	\$ 134.00		0	\$ 134.00
9/13/2017	D. Marley	DPW	5	Modify and Install Foxhole Units into Tree Box Filters	6	\$ 26.72	\$ 160.32		0	\$ 160.32
9/13/2017	J. Goodwin	DPW	5	Modify and Install Foxhole Units into Tree Box Filters	6	\$ 39.66	\$ 237.96		0	\$ 237.96
9/13/2017	S. Hall	DPW	5	Modify and Install Foxhole Units into Tree Box Filters	6	\$ 35.00	\$ 210.00		0	\$ 210.00
9/15/2017	Andre Brousseau	SSD	3	Coordinating WQ samples, summer 2017	4	\$ 50.00	\$ 200.00		0	\$ 200.00
9/15/2017	Andre Brousseau	SSD	3	E. coli sample processing	16	\$ 35.00	\$ 560.00		0	\$ 560.00
9/15/2017	BBLA volunteers		3	Conducted WQ sampling, summer 2017	22	\$ 21.61	\$ 475.42		0	\$ 475.42
9/18/2017	D. Marley	DPW	5	Modify and Install Foxhole Units into Tree Box Filters	8	\$ 26.72	\$ 213.76		0	\$ 213.76
9/18/2017	J. Goodwin	DPW	5	Modify and Install Foxhole Units into Tree Box Filters	8	\$ 39.66	\$ 317.28		0	\$ 317.28
9/18/2017	R. Smith	DPW	5	Modify and Install Foxhole Units into Tree Box Filters	8	\$ 26.72	\$ 213.76		0	\$ 213.76
9/27/2017	Beth Della Valle	Planning Dept	7	potential ordinance provisions	0.3	\$ 53.00	\$ 15.90		0	\$ 15.90

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10/1/2017	CASH MATCH	SCF	5	Match from Bauneg Beg Lake SCF Fund to help pay for Roberts street BMPs			\$ 7,000.00		0	\$ 7,000.00
10/5/2017	07-24 Pickup	DPW	5	Construction of Focal Point	10	\$ 12.30	\$ 123.00		0	\$ 123.00
10/5/2017	09-36 Loader	DPW	5	Construction of Focal Point	10	\$ 59.30	\$ 593.00		0	\$ 593.00
10/5/2017	13-07 3/4 T Truck	DPW	5	Construction of Focal Point	10	\$ 20.80	\$ 208.00		0	\$ 208.00
10/5/2017	D. Marley	DPW	5	Construction of Focal Point	10	\$ 26.72	\$ 267.20		0	\$ 267.20
10/5/2017	Dump Truck 02-43	DPW	5	Construction of Focal Point	10	\$ 77.80	\$ 778.00		0	\$ 778.00
10/5/2017	Dump Truck 04-44	DPW	5	Construction of Focal Point	10	\$ 77.80	\$ 778.00		0	\$ 778.00
10/5/2017	Excavator 12-37	DPW	5	Construction of Focal Point	10	\$ 34.20	\$ 342.00		0	\$ 342.00
10/5/2017	J. Goodwin	DPW	5	Oversight and Construction of Focal Point	10	\$ 39.66	\$ 396.60		0	\$ 396.60
10/5/2017	M. Casserly	DPW	5	Meet Rob Woodman on Focal Point on Site	1	\$ 50.00	\$ 50.00	2.2	0.968	\$ 50.97
10/5/2017	M. Hill	DPW	5	Oversight and Construction of Focal Point	8	\$ 67.00	\$ 536.00		0	\$ 536.00
10/5/2017	S. Hall	DPW	5	Construction of Focal Point	10	\$ 35.00	\$ 350.00		0	\$ 350.00
10/6/2017	07-24 Pickup	DPW	5	Construction of Focal Point	0.5	\$ 12.30	\$ 6.15		0	\$ 6.15
10/6/2017	07-24 Pickup	DPW	5	Construction of Tree Box Filters	0.5	\$ 12.30	\$ 6.15		0	\$ 6.15
10/6/2017	09-36 Loader	DPW	5	Construction of Focal Point	3	\$ 59.30	\$ 177.90		0	\$ 177.90
10/6/2017	09-36 Loader	DPW	5	Construction of Tree Box Filters	3	\$ 59.30	\$ 177.90		0	\$ 177.90
10/6/2017	13-07 3/4 T Truck	DPW	5	Construction of Focal Point	3	\$ 20.80	\$ 62.40		0	\$ 62.40
10/6/2017	13-07 3/4 T Truck	DPW	5	Construction of Tree Box Filters	3	\$ 20.80	\$ 62.40		0	\$ 62.40
10/6/2017	CASH MATCH	DPW	5	Flagger during construction			\$ 528.00		0	\$ 528.00
10/6/2017	Dump Truck 02-43	DPW	5	Construction of Focal Point	3	\$ 77.80	\$ 233.40		0	\$ 233.40
10/6/2017	Dump Truck 02-43	DPW	5	Construction of Tree Box Filters	3	\$ 77.80	\$ 233.40		0	\$ 233.40
10/6/2017	Dump Truck 04-44	DPW	5	Construction of Focal Point	3	\$ 77.80	\$ 233.40		0	\$ 233.40
10/6/2017	Dump Truck 04-44	DPW	5	Construction of Tree Box Filters	3	\$ 77.80	\$ 233.40		0	\$ 233.40
10/6/2017	Excavator 12-37	DPW	5	Construction of Focal Point	3	\$ 34.20	\$ 102.60		0	\$ 102.60
10/6/2017	Excavator 12-37	DPW	5	Construction of Tree Box Filters	3	\$ 34.20	\$ 102.60		0	\$ 102.60
10/6/2017	J. Goodwin	DPW	5	Construction of Focal Point	3	\$ 39.66	\$ 118.98		0	\$ 118.98
10/6/2017	J. Goodwin	DPW	5	Construction of Tree Box Filters	3	\$ 39.66	\$ 118.98		0	\$ 118.98
10/6/2017	M. Daney	DPW	5	Construction of Focal Point	3	\$ 26.72	\$ 80.16		0	\$ 80.16
10/6/2017	M. Daney	DPW	5	Construction of Tree Box Filters	3	\$ 26.72	\$ 80.16		0	\$ 80.16
10/6/2017	M. Hill	DPW	5	Construction of Focal Point	0.5	\$ 67.00	\$ 33.50		0	\$ 33.50
10/6/2017	M. Hill	DPW	5	Construction of Tree Box Filters	0.5	\$ 67.00	\$ 33.50		0	\$ 33.50
10/24/2017	Beth Marass	Sanford HS	4	Led students on storm drain stenciling activity	3	\$ 21.61	\$ 64.83		0	\$ 64.83
10/24/2017	M. Hill	DPW	1	Meeting, Summary of Work, and Documentation	4	\$ 67.00	\$ 268.00		0	\$ 268.00
10/24/2017	Students	Sanford HS	4	Conducted storm drain stenciling in watershed	6	\$ 21.61	\$ 129.66		0	\$ 129.66
1/16/2018	Beth Della Valle	Planning Dept	4	potential ordinance provisions, update staff	2.25	\$ 53.00	\$ 119.25		0	\$ 119.25
1/17/2018	Beth Della Valle	Planning Dept	7	potential ordinance provisions	1	\$ 53.00	\$ 53.00		0	\$ 53.00
1/18/2018	Beth Della Valle	Planning Dept	1	Committee Meeting	1.5	\$ 53.00	\$ 79.50		0	\$ 79.50
1/18/2018	Beth Della Valle	Planning Dept	7	potential ordinance provisions	1	\$ 53.00	\$ 53.00		0	\$ 53.00

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1/24/2018	Beth Della Valle	Planning Dept	7	potential ordinance provisions	0.45	\$ 53.00	\$ 23.85		0	\$ 23.85
2/1/2018	M. Casserly	DPW	7	Web Research on Stormwater BMPs	3.0	\$ 50.00	\$ 150.00		0	\$ 150.00
2/21/2018	M. Casserly	DPW	7	Web Stormwater Reserach	3.0	\$ 50.00	\$ 150.00		0	\$ 150.00
2/22/2018	M. Casserly	DPW	7	Draft ordinance text	6.0	\$ 50.00	\$ 300.00		0	\$ 300.00
2/23/2018	M. Casserly	DPW	7	Download and Read South Portland Stormwater Ordinance	2.0	\$ 50.00	\$ 100.00		0	\$ 100.00
2/27/2018	M. Casserly	DPW	7	Edit Combined City Stormwater Ordinances	5.5	\$ 50.00	\$ 275.00		0	\$ 275.00
2/28/2018	Beth Della Valle	Planning Dept	7	potential ordinance provisions	1	\$ 53.00	\$ 53.00		0	\$ 53.00
2/28/2018	M. Casserly	DPW	7	Edit Stormwater Ordinance Draft, Email Planner	3.5	\$ 50.00	\$ 175.00		0	\$ 175.00
3/2/2018	Beth Della Valle	Planning Dept	7	potential ordinance provisions	1.5	\$ 53.00	\$ 79.50		0	\$ 79.50
3/7/2018	Beth Della Valle	Planning Dept	7	potential ordinance provisions	0.5	\$ 53.00	\$ 26.50		0	\$ 26.50
3/7/2018	Beth Della Valle	Planning Board	7	potential ordinance provisions	3.5	\$ 53.00	\$ 185.50		0	\$ 185.50
3/16/2018	M. Casserly	DPW	7	Download and Read Various Stormwater Ordinances	6.0	\$ 50.00	\$ 300.00		0	\$ 300.00
3/20/2018	Beth Della Valle	Planning Dept	2	Project Meeting to introduce WB	1.5	\$ 53.00	\$ 79.50		0	\$ 79.50
3/20/2018	M. Casserly	DPW	2	Project Meeting to introduce WB	1.5	\$ 50.00	\$ 75.00		0	\$ 75.00
3/20/2018	M. Hill	DPW	2	Project Meeting to introduce WB	1.5	\$ 67.00	\$ 100.50		0	\$ 100.50
3/20/2018	N. Lebrun	DPW	2	Project Meeting to introduce WB	1.5	\$ 30.00	\$ 45.00		0	\$ 45.00
3/20/2018	P. Simpson	Treasurer	2	Project Meeting to introduce WB	1.5	\$ 30.00	\$ 45.00		0	\$ 45.00
3/27/2018	Beth Della Valle	Planning Dept	7	potential ordinance provisions	1	\$ 53.00	\$ 53.00		0	\$ 53.00
3/30/2018	P. Simpson	Treasurer	1	DEP invoicing	1	\$ 30.00	\$ 30.00		0	\$ 30.00
3/30/2018	N. Lebrun	DPW	1	DEP invoicing	2	\$ 30.00	\$ 60.00		0	\$ 60.00
4/3/2018	Beth Della Valle	Planning Dept	7	potential ordinance provisions	1	\$ 53.00	\$ 53.00		0	\$ 53.00
4/4/2018	Beth Della Valle	Planning Dept	7	potential ordinance provisions	0.5	\$ 53.00	\$ 26.50		0	\$ 26.50
4/4/2018	Beth Della Valle	Planning Board	7	potential ordinance provisions	3.5	\$ 53.00	\$ 185.50		0	\$ 185.50
4/5/2018	Beth Della Valle	Planning Dept	7	potential ordinance provisions	0.5	\$ 53.00	\$ 26.50		0	\$ 26.50
4/9/2018	Andre Brousseau	SSD	2	Restoration Committee Meeting	2	\$ 50.00	\$ 100.00		0	\$ 100.00
4/9/2018	Beth Della Valle	City of Sanford	2	Restoration Committee Meeting	2	\$ 53.00	\$ 106.00		0	\$ 106.00
4/9/2018	Beth Della Valle	Planning Dept	1	Committee Meeting	1.5	\$ 53.00	\$ 79.50		0	\$ 79.50
4/9/2018	Beth Marass	Sanford HS	2	Restoration Committee Meeting	2	\$ 22.53	\$ 45.06		0	\$ 45.06
4/9/2018	Dana Peterson	BBLA	2	Restoration Committee Meeting	2	\$ 22.53	\$ 45.06		0	\$ 45.06
4/9/2018	M. Casserly	DPW	2	Restoration Committee Meeting	2	\$ 50.00	\$ 100.00		0	\$ 100.00
4/9/2018	M. Hill	DPW	2	Restoration Committee Meeting	2	\$ 67.00	\$ 134.00		0	\$ 134.00
4/9/2018	N. Lebrun	DPW	2	Restoration Committee Meeting	2	\$ 30.00	\$ 60.00		0	\$ 60.00
4/18/2018	Beth Della Valle	Planning Dept	4	discussion with CEO re sign	0.25	\$ 53.00	\$ 13.25		0	\$ 13.25
5/1/2018	Beth Marass	Sanford HS	3	WQ Monitoring Coordination	2.5	\$ 22.53	\$ 56.33		0	\$ 56.33
5/1/2018	Dana Peterson	BBLA	3	WQ Monitoring Coordination	2.5	\$ 22.53	\$ 56.33		0	\$ 56.33
5/5/2018	M. Casserly	DPW	5	Meet with owner of 1 Seneca Ave property	1.0	\$ 50.00	\$ 50.00	2.0	0	\$ 50.00
5/25/2018	M. Casserly	DPW	7	Research Chapter 500	6.5	\$ 50.00	\$ 325.00		0	\$ 325.00
5/25/2018	M. Casserly	DPW	7	Stormwater & ESC Draft Ordinances	2.0	\$ 50.00	\$ 100.00		0	\$ 100.00
5/29/2018	M. Casserly	DPW	7	Research Phosphorus Standards, email to Planner	2.5	\$ 50.00	\$ 125.00		0	\$ 125.00

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5/29/2018	M. Casserly	DPW	7	Research Maine Stormwater BMP Manual	4.0	\$ 50.00	\$ 200.00		0	\$ 200.00
5/29/2018	M. Casserly	DPW	7	Draft Stormwater Ordinance	1.5	\$ 50.00	\$ 75.00		0	\$ 75.00
5/30/2018	M. Casserly	DPW	7	Continue Draft Ordinance	4.5	\$ 50.00	\$ 225.00		0	\$ 225.00
6/3/2018	M. Casserly	DPW	7	Write Stormwater Ordinance Draft	5.0	\$ 50.00	\$ 250.00		0	\$ 250.00
6/4/2018	CASH MATCH	City of Sanford	4	Mounting materials			\$ 100.00		0	\$ 100.00
6/4/2018	Sanford DPW	City of Sanford	4	sign pick-up and mounting	2	\$ 26.72	\$ 53.44		0	\$ 53.44
6/4/2018	Sanford Parks and Re	City of Sanford	4	Sign installation	2	\$ 26.72	\$ 53.44		0	\$ 53.44
6/4/2018	Sanford Rec. Dept.	City of Sanford	4	Sanford Rec. Department sign install - 2 people, 1 hour	2	\$ 22.53	\$ 45.06		0	\$ 45.06
6/8/2018	CASH MATCH	City of Sanford	5	CASH MATCH - Plant for tree box filters - Springvale Nurseries			\$ 232.00		0	\$ 232.00
6/9/2018	BBLA volunteers (7)	BBLA	4	June 9 Press Event / sign reveal - 7 people, 2.5 hours	17.5	\$ 22.53	\$ 394.28		0	\$ 394.28
6/9/2018	Beth Marass	SHS	4	June 9 Press Event / sign reveal	2.5	\$ 22.53	\$ 56.33		0	\$ 56.33
6/9/2018	Event participants	Volunteers (2)	4	June 9 Press Event / sign reveal	2.5	\$ 22.53	\$ 56.33		0	\$ 56.33
6/9/2018	M. Casserly	City of Sanford	4	June 9 Press Event / sign reveal	2.5	\$ 50.00	\$ 125.00		0	\$ 125.00
6/9/2018	Deputy Mayor	City of Sanford	4	June 9 Press Event / sign reveal	2.5	\$ 21.61	\$ 54.03		0	\$ 54.03
6/19/2018	M. Casserly	DPW	7	Continue Draft Ordinance	1.5	\$ 50.00	\$ 75.00		0.00	\$ 75.00
6/20/2018	M. Casserly	DPW	5	Elevation Survey West Elm Street Outfall. Process Data	1.0	\$ 50.00	\$ 50.00	2.0	0.88	\$ 50.88
6/20/2018	M. Casserly	DPW	7	Continue Draft Ordinance	3.5	\$ 50.00	\$ 175.00		0.00	\$ 175.00
6/21/2018	M. Casserly	DPW	7	Worksheet for Chapter 500 Criteria	2.5	\$ 50.00	\$ 125.00		0.00	\$ 125.00
6/26/2018	M. Casserly	DPW	7	Read Entire Stormwater BMP Manual	8.0	\$ 50.00	\$ 400.00		0	\$ 400.00
7/13/2018	M. Casserly	City of Sanford	5	Site Walk - Kimball St. Outfall & West Elm Street Outfall	1.5	\$ 50.00	\$ 75.00		0	\$ 75.00
7/13/2018	M. Casserly	DPW	5	Calculate elevations from previous day	1.0	\$ 50.00	\$ 50.00		0	\$ 50.00
7/13/2018	M. Hill	City of Sanford	5	Site Walk - Kimball St. Outfall & West Elm Street Outfall	1.5	\$ 67.00	\$ 100.50		0	\$ 100.50
7/14/2018	M. Casserly	DPW	5	Elevation Survey West Elm Street Outfall (wooded area). Process Data	2.0	\$ 50.00	\$ 100.00	2.0	0.88	\$ 100.88
7/16/2018	M. Casserly	DPW	5	CAD - conceptual design	4.0	\$ 50.00	\$ 200.00		0.00	\$ 200.00
7/19/2018	M. Casserly	DPW	5	Plot full size plan, retrieve at City Hall	0.5	\$ 50.00	\$ 25.00	1.8	0.79	\$ 25.79
7/19/2018	M. Casserly	DPW	5	Meet w Matt Hill on design concept	1.0	\$ 50.00	\$ 50.00	2.0	0.88	\$ 50.88
7/19/2018	M. Hill	DPW	5	Meet w M. Casserly on design concepts	1.0	\$ 67.00	\$ 67.00	2.0	0.44	\$ 67.44
7/23/2018	M. Casserly	DPW	5	Elevation Survey West Elm Street Outfall. Process Data	1.0	\$ 50.00	\$ 50.00	2.0	0.88	\$ 50.88
7/25/2018	M. Casserly	DPW	5	Elevation Survey West Elm Street Outfall. Process Data	2.0	\$ 50.00	\$ 100.00	2.0	0.88	\$ 100.88
7/27/2018	M. Casserly	DPW	5	Set up CAD drawing file, import points from 2013	2.0	\$ 50.00	\$ 100.00		0.00	\$ 100.00
7/29/2018	M. Casserly	DPW	7	Draft Erosion and Sediment Control Ordinance	5.0	\$ 50.00	\$ 250.00		0.00	\$ 250.00
7/30/2018	M. Casserly	DPW	5	Revise CAD Design	3.5	\$ 50.00	\$ 175.00		0.00	\$ 175.00
8/12/2018	M. Casserly	DPW	7	Continue work on Stormwater Ordinance	1.5	\$ 50.00	\$ 75.00		0.00	\$ 75.00
8/13/2018	M. Casserly	DPW	5	Review easement criteria for 1 Seneca Ave	1.5	\$ 50.00	\$ 75.00		0.00	\$ 75.00
8/14/2018	M. Casserly	DPW	5	Research easement language	2.0	\$ 50.00	\$ 100.00		0.00	\$ 100.00
8/14/2018	M. Casserly	DPW	7	Continue work on Stormwater Ordinance	3.5	\$ 50.00	\$ 175.00		0.00	\$ 175.00
8/14/2018	M. Casserly	DPW	7	Generate questions for B Viola	1.5	\$ 50.00	\$ 75.00		0.00	\$ 75.00

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8/17/2018	M. Casserly	DPW	5	Develop easement language - Microsoft Word	1.0	\$ 50.00	\$ 50.00		0.00	\$ 50.00
8/20/2018	M. Casserly	DPW	5	Set up easement CAD drawing file	3.0	\$ 50.00	\$ 150.00		0.00	\$ 150.00
8/21/2018	M. Casserly	DPW	5	Obtain Subdivision Plan York County Reg of Deeds	1.0	\$ 50.00	\$ 50.00	11.4	5.02	\$ 55.02
8/21/2018	M. Casserly	DPW	5	Scan Seneca Ave Subdivision Plan @ City Hall	1.0	\$ 50.00	\$ 50.00	1.8	0.79	\$ 50.79
8/22/2018	M. Casserly	DPW	5	incorporate subdivision plan into CAD drawing	3.0	\$ 50.00	\$ 150.00		0.00	\$ 150.00
8/22/2018	M. Casserly	DPW	5	CAD Design (including easements)	4.5	\$ 50.00	\$ 225.00		0.00	\$ 225.00
8/22/2018	M. Casserly	DPW	5	Email to J Maclaine on project status	0.5	\$ 50.00	\$ 25.00		0.00	\$ 25.00
8/22/2018	M. Casserly	DPW	5	Email, set up meeting with Lucien Langlois	0.5	\$ 50.00	\$ 25.00		0.00	\$ 25.00
8/22/2018	M. Casserly	DPW	5	Develop/Revise Easement Language	2.0	\$ 50.00	\$ 100.00		0.00	\$ 100.00
8/23/2018	M. Casserly	DPW	5	CAD Design for Level Spreader and related	5.5	\$ 50.00	\$ 275.00		0.00	\$ 275.00
8/23/2018	M. Casserly	DPW	5	Created Access & Flowage Easements	6.0	\$ 50.00	\$ 300.00		0.00	\$ 300.00
8/24/2018	M. Casserly	DPW	5	Meet C Cross (1 Seneca Ave owner) on easement	1.0	\$ 50.00	\$ 50.00	2.0	0.88	\$ 50.88
8/24/2018	M. Casserly	DPW	5	Visit Tom Genest Precast, discuss Splitter Design	1.5	\$ 50.00	\$ 75.00	7.2	3.17	\$ 78.17
8/24/2018	M. Casserly	DPW	5	Revise Level Spreader Design, Add Riprap	7.0	\$ 50.00	\$ 350.00		0.00	\$ 350.00
8/27/2018	M. Casserly	DPW	5	CAD Design for Level Spreader Profile	2.0	\$ 50.00	\$ 100.00	2.0	0.88	\$ 100.88
8/28/2018	M. Casserly	DPW	5	Met with C Cross. Reluctant to sign easement	0.5	\$ 50.00	\$ 25.00		0.00	\$ 25.00
8/29/2018	M. Casserly	DPW	5	Revise easement to shorter document	2.0	\$ 50.00	\$ 100.00		0.00	\$ 100.00
8/29/2018	M. Casserly	DPW	5	Revise CAD drawing per change in easement	1.0	\$ 50.00	\$ 50.00		0.00	\$ 50.00
8/29/2018	M. Casserly	DPW	5	Meet Lucien Langlois on site	2.0	\$ 50.00	\$ 100.00	4.0	1.76	\$ 101.76
8/30/2018	M. Casserly	DPW	5	Email on Seneca Ave project status	0.5	\$ 50.00	\$ 25.00		0.00	\$ 25.00
9/2/2018	M. Casserly	DPW	5	Meet With C. Cross, He Signs Easement	0.5	\$ 50.00	\$ 25.00	2.0	0.88	\$ 25.88
9/2/2018	M. Hill	DPW	5	Meet With C. Cross RE Drainage Easement	1.0	\$ 67.00	\$ 67.00	2.0	0.44	\$ 67.44
9/4/2018	M. Casserly	DPW	5	CAD, Plot Full Size Plan, Retrieve at City Hall	1.0	\$ 50.00	\$ 50.00	1.8	0.79	\$ 50.79
9/4/2018	M. Casserly	DPW	5	CAD Design for Level Spreader and related	1.5	\$ 50.00	\$ 75.00		0.00	\$ 75.00
9/4/2018	M. Hill	DPW	5	Survey & Design Kimball Street Outfall	8.0	\$ 67.00	\$ 536.00	2.0	0.44	\$ 536.44
9/5/2018	M. Hill	DPW	5	Survey & Design Kimball Street Outfall	8.0	\$ 67.00	\$ 536.00	4.0	0.44	\$ 536.44
9/6/2018	M. Casserly	DPW	7	Complete DRAFT E&S Control Ordinance	2.0	\$ 50.00	\$ 100.00		0.00	\$ 100.00
9/6/2018	M. Casserly	DPW	7	DRAFT Stormwater Ordinance, email to Planner	2.0	\$ 50.00	\$ 100.00		0.00	\$ 100.00
9/6/2018	M. Hill	DPW	5	Survey & Design Kimball Street Outfall	8.0	\$ 67.00	\$ 536.00	4.0	0.44	\$ 536.44
9/7/2018	Beth Della Valle	Planning Dept	7	potential ordinance provisions	0.25	\$ 53.00	\$ 13.25		0	\$ 13.25
9/7/2018	M. Casserly	DPW	5	CAD Design for Level Spreader and related	5.0	\$ 50.00	\$ 250.00		0.00	\$ 250.00
9/10/2018	M. Casserly	DPW	2	Oversight committee meeting	2.0	\$ 50.00	\$ 100.00	1.8	0.79	\$ 100.79
9/10/2018	M. Hill	DPW	2	Oversight committee meeting	2.0	\$ 67.00	\$ 134.00	2.0	0.44	\$ 134.44
9/11/2018	Andre Brousseau	SSD	2	Goodall Brook Restoration Committee Meeting	3	\$ 50.00	\$ 150.00		0	\$ 150.00
9/11/2018	Beth Della Valle	City of Sanford	2	Goodall Brook Restoration Committee Meeting	3	\$ 53.00	\$ 159.00		0	\$ 159.00
9/11/2018	Beth Della Valle	Planning Dept	1	Committee Meeting	1.5	\$ 53.00	\$ 79.50		0	\$ 79.50
9/11/2018	Beth Marass	SHS	2	Goodall Brook Restoration Committee Meeting	3	\$ 22.53	\$ 67.59		0	\$ 67.59
9/11/2018	Dana Peterson	BBLA	2	Goodall Brook Restoration Committee Meeting	3	\$ 22.53	\$ 67.59		0	\$ 67.59
9/11/2018	M. Casserly	City of Sanford	2	Goodall Brook Restoration Committee Meeting	3	\$ 50.00	\$ 150.00		0	\$ 150.00

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DATE	NAME	Group	Task #	Activity	#HRS	Hrly Rate	Total	#MILES	MILEAGE (\$0.44)	Total (Hrs plus Mileage)
9/11/2018	M. Casserly	DPW	5	Visit Tom Genest Precast, discuss Splitter Design	1.5	\$ 50.00	\$ 75.00	7.2	3.17	\$ 78.17
9/11/2018	M. Hill	DPW	5	Review Construction Plan with Contractor	4.0	\$ 67.00	\$ 268.00	2.0	0.44	\$ 268.44
9/11/2018	M. Hill	City of Sanford	2	Goodall Brook Restoration Committee Meeting	3	\$ 67.00	\$ 201.00		0	\$ 201.00
9/11/2018	N. Lebrun	City of Sanford	2	Goodall Brook Restoration Committee Meeting	3	\$ 30.00	\$ 90.00		0	\$ 90.00
9/12/2018	M. Hill	DPW	5	Oversight of Contractor for Kimball & Stumps & FP	8.0	\$ 67.00	\$ 536.00	2.0	0.44	\$ 536.44
9/13/2018	M. Hill	DPW	5	Oversight of Contractor for Kimball & Stumps & FP	8.0	\$ 67.00	\$ 536.00	2.0	0.44	\$ 536.44
9/14/2018	Beth Della Valle	Planning Dept	7	potential ordinance provisions	0.75	\$ 53.00	\$ 39.75		0	\$ 39.75
9/16/2018	M. Hill	DPW	5	Oversight of Contractor for Kimball & Stumps & FP	8.0	\$ 67.00	\$ 536.00	2.0	0.44	\$ 536.44
9/17/2018	CASH MATCH	City of Sanford	5	CASH MATCH - Tree Removal for West Elm Street Outfall Project - Abbot Tree Service			\$ 1,200.00		0	\$ 1,200.00
9/17/2018	CASH MATCH	City of Sanford	5	CASH MATCH - Riprap for Knottweed Removal around Focal Point - Dayton Sand and Gravel			\$ 1,371.00		0	\$ 1,371.00
9/17/2018	CASH MATCH	City of Sanford	5	CASH MATCH - 40% match for woody debris installation			\$ 450.40		0	\$ 450.40
9/17/2018	CASH MATCH	City	5	Rootwads (3) for Woody Debris Installation	3	\$ 22.00	\$ 66.00		0	\$ 66.00
9/17/2018	M. Hill	DPW	5	Oversight of Contractor for Kimball & Stumps & FP	8.0	\$ 67.00	\$ 536.00	2.0	0.44	\$ 536.44
9/18/2018	CASH MATCH	City of Sanford	5	CASH MATCH - Rubber Roofing for Knottweed Removal around FocalPoint - Deering Lumber			\$ 2,079.00		0	\$ 2,079.00
9/19/2018	Beth Della Valle	Planning Dept	7	potential ordinance provisions	0.45	\$ 53.00	\$ 23.85		0	\$ 23.85
9/19/2018	Beth Della Valle	Planning Board	7	potential ordinance provisions	2.25	\$ 53.00	\$ 119.25		0	\$ 119.25
9/20/2018	M. Casserly	DPW	5	Inspect Tree Contractor work 1 Seneca	1.0	\$ 50.00	\$ 50.00	2.0	0.88	\$ 50.88
9/21/2018	Beth Della Valle	Planning Dept	7	potential ordinance provisions	0.25	\$ 53.00	\$ 13.25		0	\$ 13.25
9/22/2018	Andre Brousseau	SSD	3	Coordinating WQ samples, summer 2018	4	\$ 50.00	\$ 200.00		0	\$ 200.00
9/22/2018	Andre Brousseau	SSD	3	E. coli sample processing	24	\$ 35.00	\$ 840.00		0	\$ 840.00
9/24/2018	Beth Della Valle	Planning Dept	1	reports	0.5	\$ 53.00	\$ 26.50		0	\$ 26.50
9/24/2018	M. Casserly	DPW	5	Inspect Tree Contractor Cleanup	0.5	\$ 50.00	\$ 25.00	2.0	0.88	\$ 25.88
10/1/2018	BBLA WQ Monitors	BBLA	3	2018 Water Quality Monitoring	36	\$ 22.53	\$ 811.08		0	\$ 811.08
10/1/2018	SHS WQ Monitors	SHS	3	2018 Water Quality Monitoring	36	\$ 22.53	\$ 811.08		0	\$ 811.08
10/4/2018	CASH MATCH	City of Sanford	5	CASH MATCH - Plants for Focal Point - Springvales Nurseries			\$ 164.46		0	\$ 164.46
10/5/2018	CASH MATCH	City of Sanford	5	CASH MATCH - 40% match for Kimball Street Outfall NPS Project			\$ 3,417.20		0	\$ 3,417.20
10/12/2018	M. Casserly	DPW	5	Revise CAD design	4.5	\$ 50.00	\$ 225.00			\$ 225.00
10/15/2018	Students	SHS	4	Storm drain stenciling event	30	\$ 21.61	\$ 648.30		0	\$ 648.30
10/16/2018	M. Casserly	DPW	5	Seneca Ave, on site with contractor	7.0	\$ 50.00	\$ 350.00	6	2.64	\$ 352.64
10/17/2018	M. Casserly	DPW	5	Seneca Ave, on site with contractor	7.5	\$ 50.00	\$ 375.00	4	1.76	\$ 376.76
10/17/2018	M. Hill	DPW	5	Coord. with M. Casserly & Contractor at West Elm St.	2.0	\$ 67.00	\$ 134.00	2.0	0.44	\$ 134.44
10/18/2018	M. Casserly	DPW	5	Seneca Ave, on site with contractor	9.0	\$ 50.00	\$ 450.00	6	2.64	\$ 452.64
10/18/2018	M. Hill	DPW	5	Coord. with M. Casserly & Contractor at West Elm St.	2.0	\$ 67.00	\$ 134.00	2.0	0.44	\$ 134.44
10/19/2018	M. Casserly	DPW	5	Seneca Ave, on site with contractor	6.5	\$ 50.00	\$ 325.00	8	3.52	\$ 328.52

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DATE	NAME	Group	Task #	Activity	#HRS	Hrly Rate	Total	#MILES	MILEAGE (\$0.44)	Total (Hrs plus Mileage)
10/19/2018	M. Hill	DPW	5	Coord. with M. Casserly & Contractor at West Elm St.	2.0	\$ 67.00	\$ 134.00	2.0	0.44	\$ 134.44
10/22/2018	M. Casserly	DPW	5	Seneca Ave, on site with contractor	8.0	\$ 50.00	\$ 400.00	6	2.64	\$ 402.64
10/23/2018	CASH MATCH	City of Sanford	5	CASH MATCH - Stump Removal at West Elm Street - JA Simpson			\$ 188.00		0	\$ 188.00
10/23/2018	M. Casserly	DPW	5	Seneca Ave, on site with contractor	8.0	\$ 50.00	\$ 400.00	6	2.64	\$ 402.64
10/24/2018	M. Casserly	DPW	5	Seneca Ave, on site with contractor	8.5	\$ 50.00	\$ 425.00	4	1.76	\$ 426.76
10/25/2018	M. Casserly	DPW	5	Seneca Ave, on site with contractor	6.0	\$ 50.00	\$ 300.00	4	1.76	\$ 301.76
10/25/2018	M. Hill	DPW	5	Coord. with M. Casserly & Contractor at West Elm St.	2.0	\$ 67.00	\$ 134.00	4.0	0.44	\$ 134.44
10/26/2018	M. Casserly	DPW	5	Seneca Ave, inspect during rain event	1.0	\$ 50.00	\$ 50.00	2	0.88	\$ 50.88
10/26/2018	M. Hill	DPW	5	Seneca Ave, inspect during rain event	1.0	\$ 67.00	\$ 67.00	2.0	0.44	\$ 67.44
11/5/2018	CASH MATCH	City of Sanford	5	CASH MATCH - 40% match for West Elm Street Outfall NPS Project			\$ 9,018.81		0	\$ 9,018.81
1/30/2019	CASH MATCH	YCSWCD	1	CASH MATCH - Project overrun (PM payroll)	56	\$ 57.00	\$ 3,192.00		0	\$ 3,192.00

TOTALS BY TASK	
Task 1	\$4,217.00
Task 2	\$3,738.41
Task 3	\$4,010.23
Task 4	\$3,350.21
Task 5	\$48,729.52
Task 6	\$0.00
Task 7	\$5,640.10
<b>TOTAL</b>	<b>\$69,685.47</b>

**TOTAL \$ 69,685.47**

GOAL \$ 63,775.00  
 NEEDED: \$ (5,910.47)