

FINAL PROJECT REPORT

FOR

G1000535

Shared Sweeping for Whatcom County NPDES Permittees

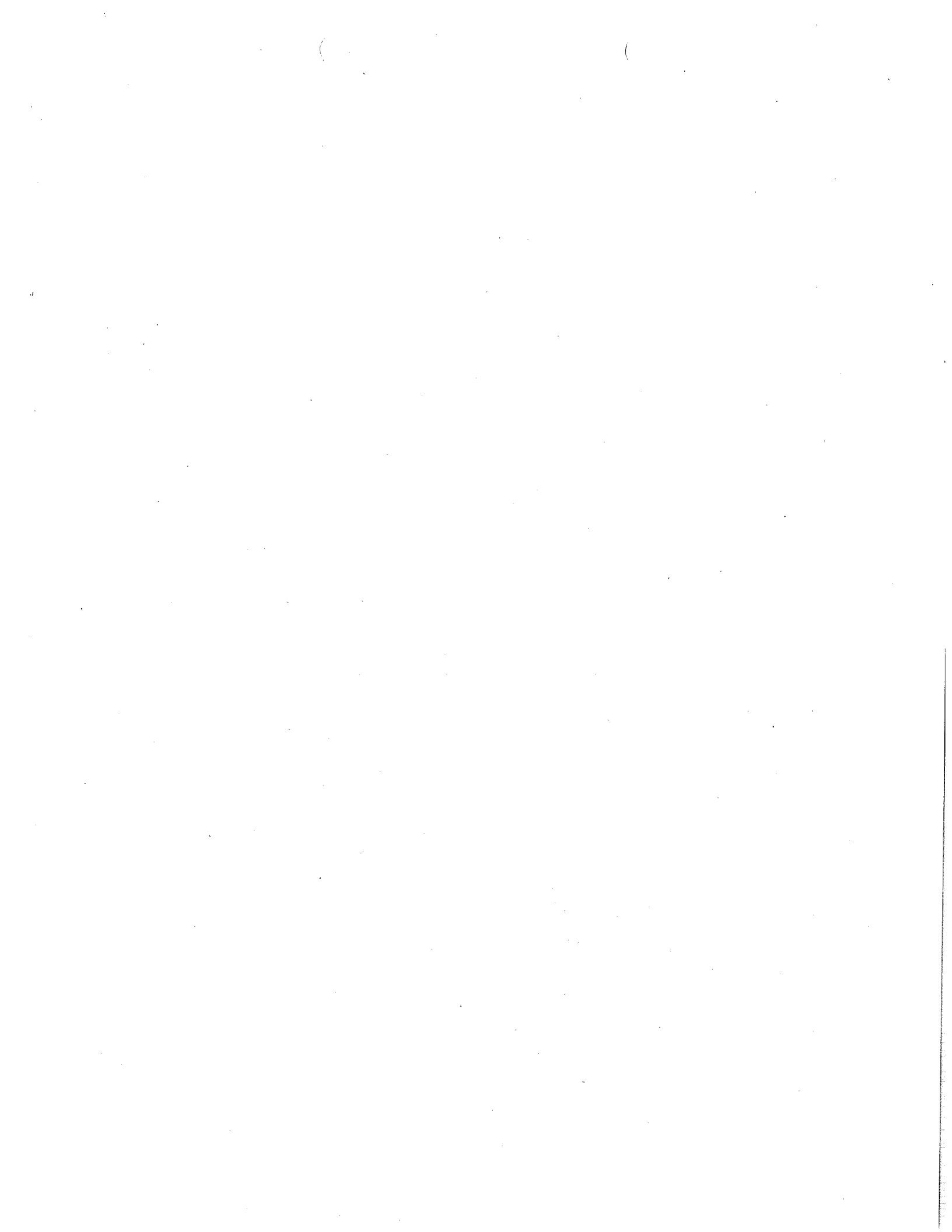
City of Bellingham

Total Cost of Project:       \$291,614.23  
Grant or Loan Amount:       \$232,850

Project Start Date: December 1, 2009  
End Date: June 30, 2011

 5/1/11

William M. Reilly, SSWU Manager  
(PROJECT MANAGER)



## II. OVERVIEW DESCRIPTION OF PROJECT:

The issues intended to be solved by this project included:

- Provision of a state of the art sweeper for joint use between 4 NPDES permittees. Whatcom County, Port of Bellingham, City of Ferndale and the City of Bellingham.
- Provision of a Sweeper to the City of Bellingham and Whatcom County that has a higher rate of fine particulate capture for use in the Lake Whatcom Watershed to improve removal of particulate phosphorus from roadways.
- Demonstration that four entities can successfully enter into agreement for sharing an expensive and important asset.

## III. OUTCOMES:

### **Task 1 - Project Administration/Management: (Total Task Cost: \$0.00)**

- A. The RECIPIENT will administer the project. Responsibilities will include, but not be limited to: maintenance of project records; submittal of payment vouchers, fiscal forms, and progress reports; compliance with applicable procurement, contracting, and interlocal agreement requirements; application for, receipt of, and compliance with all required permits, licenses, easements, or property rights necessary for the project; and submittal of required performance items.  
*All aspects of this sub task have been completed with exception of finalization of the Interlocal agreement. All staff have now approved of the content and it is scheduled for adoption in the month of May. This has been held up by late delivery of the equipment and a desire on the part of one partner to hold adoption to coincide with a council process.*
- B. The RECIPIENT must manage the project. Efforts will include: conducting, coordinating, and scheduling project activities and assuring quality control. Every effort will be made to maintain effective communication with the RECIPIENT's designees; the DEPARTMENT; all affected local, state, or federal jurisdictions; and any interested individuals or groups. The RECIPIENT must carry out this project in accordance with any completion dates outlined in this agreement.  
*This sub task has been completed. Multiple meetings were held with jurisdictions along with countless e-mails. Alignment of four jurisdictions legal staffs in approving the interlocal was challenging.*
- C. The RECIPIENT must ensure this project is completed according to the details of this agreement. The RECIPIENT may elect to use its own forces or it may contract for professional services necessary to perform and complete project-related work.  
*Project will be completed prior to June 30, 2011. Task to complete is interlocal agreement adoption by all four entities which is scheduled to occur in May 2011.*

### Required Performance:

1. Effective administration and management of this grant project. Yes
2. Timely submittal of all required performance items, progress reports, and financial vouchers. Yes

**Task 2 - Purchase Regenerative air vacuum street sweeper. (Total Task Cost: \$232,850)**

- A. A regenerative air vacuum sweeper will serve 4 NPDES Phase II permittees, including, City of Bellingham, City of Ferndale, Whatcom County, and the Port of Bellingham. The sweeper will enhance pollutant removal associated with the Lake Whatcom TMDL and the Nooksack River TMDL. It will also be used in the Port of Bellingham's industrial area.

*Sweeper is purchased, made ready for use and has begun use within Bellingham. Use in other jurisdictions will commence upon final approval of interlocal.*

- B. An equipment quote was provided by H-GAC on October 9, 2009 for a Schwarze:A7000: regenerative air sweeper; auxiliary engine: 115-hp Deere 4045T diesel; hopper: 84.cu yd.; water tank: 250 gallons; standard sweep path: 144". This sweeper system is nearly identical to the sweeper system that has been tested by Bellingham for removal efficiency. Until the equipment is ordered, an exact figure is not available. Based on the quote provided, the cost of the sweeper is \$217,000. A 5% mark up for potential price change is \$10,850, and a ready make cost of \$5000 is included. The purchase price will not exceed \$232,850.

*During procurement the City became aware of the availability of an on demand High Efficiency Sweeper. Discussion with Ecology allowed us to utilize Bellingham's \$50,000 Pass Thru Grant to augment the cost of the higher efficiency sweeper. Further the City has invested an additional 15-20,000 dollars of local money to allow this purchase. The sweeper contemplated originally was a PM 10 (rating of particulate capture size) as are all sweepers in use in this County. The high efficiency sweeper purchased meets a PM 2.5 rating when operating in high efficiency mode. Previous high efficiency sweepers that were contemplated for purchase by Bellingham could only be used during dry periods and were useless during rain events. This was due to the paper filters (similar to HEPA filters) inability to get wet. The one chosen (an Elgin NX) has the ability to run in PM mode during dry weather and PM 10 mode when raining thus allowing us to maximize use and efficiency of the sweeper.*

**Required Performance:**

1. RECIPIENT will purchase a regenerative air sweeper that meets standards as stated in Task 2(B), and complies with applicable state laws in Attachment II (D).
2. DEPARTMENT will approve purchase of sweeper up to \$232,850.

**Task 3 - Interlocal agreement for street sweeper use, disposal of wastes, and maintenance agreement (Total Task Cost: \$0.00)**

- A. RECIPIENT will enter into a 10 year Interlocal agreement with project partners - City of Ferndale, Whatcom County, and Port of Bellingham. The Interlocal agreement will include language on the shared use of the street sweeper, costs for maintenance, materials disposal, fueling, and administrative overhead.

*Interlocal includes language and fee schedules for all of these aspects. Interlocal will be completed prior to end of contract.*

- B. The RECIPIENT will provide partners with 2 options for sweeper use as outlined below. Sweeper will be used by partners and be billed at an hourly rate. Alternately, RECIPIENT will offer at cost full service of sweeper including, maintenance, fuel, materials disposal, and employee costs. *Interlocal includes two options as indicated above.*
- C. The RECIPIENT will provide a training program for other users of the sweeping system. This training is intended to ensure consistent removal of materials and proper operation to avoid equipment damage. *Training for the equipment was provided by manufacturers representatives. Local partners were made aware of training but chose not to participate. Training by the City of Bellingham will be provided to any entities desiring to use the hourly option. The Port and Whatcom County have expressed that they intend to use the full service option so training for them may be unnecessary.*

Required Performance:

1. RECIPIENT will provide the DEPARTMENT 2 signed copies of the 10 year Interlocal agreement between RECIPIENT and partners. *Pending Approval*
2. RECIPIENT will provide the DEPARTMENT with 1 signed copy of a schedule of use; maintenance agreement; and waste disposal plan. *Included in Interlocal.*

**Task 4** - Annual Report on sweeper activities(**Total Task Cost: \$0**)

A. RECIPIENT will provide the DEPARTMENT with an annual report on sweeper use by 4 NPDES jurisdictions, waste disposal costs, and tonnage of removed materials from sweeping roadways.

Required Performance:

1. RECIPIENT will provide the DEPARTMENT with an annual report for sweeper use by 4 NPDES jurisdictions, waste disposal from tonnage of removed materials from sweeping roadways, and maintenance agreement for sweeper use. *The City of Bellingham is responsible for annual reporting. A first report will be provided immediately prior to the end of the grant cycle and a second report will be provided in June of 2012. Annual reporting beyond that will be verified with Ecology and if desired will be provided.*

IV. EVALUATION:

Why was the project successful or unsuccessful? What is the significance of the project's outcome(s).

*It is the City of Bellingham's belief that the process conducted for this project has provided valuable information on how to successfully write a four part interlocal. We are in position to now provide information to other political entities on some of the issues and pitfalls that arise in such an undertaking.*

*We certainly believe that this process has been valuable in providing a piece of equipment for use in a multijurisdictional area that could not have been afforded by any one entity. Hopefully it will lead in the future to other cost effective asset sharing both in Whatcom County and elsewhere.*

*Preliminary data from sweeping tests shows an improvement to the removal of fine particulates as compared to PM 10 standard sweeping. We look forward to this project making a meaningful contribution to our removal of phosphorus in the Lake Whatcom Watershed along with standard pollutants in all areas.*

V. FOLLOW-UP: What remains to be done and how will it be accomplished? Will the project be continued with or without grant funding? When do you expect to have observable/measurable water quality improvements as a result of this project? What will be done in order to maintain the project after the funding period has ended?

*This project by virtue of our 10 year contract for use between entities is really just beginning. Measurable results are already available and the annual reporting will be able to provide specific pollutant removals.*

*The use of a joint asset over a 10 year period should provide the entities with a clear understanding of how shared assets can lower the cost of service.*

VI. GENERAL COMMENTS: Optional, if you have comments that do not fit easily into the above categories.