SAM Quarter 1 Jan.-Mar. 2023 Report

Project Title: Evaluation of Long-Term Bioretention Soil Infiltration Rate Related to Vegetation, Maintenance, Soil Media and Geotechnical Site Parameters
Contract Agreement Number: C2300003
Organization: City of Olympia
Project Manager: Jesse Barham
Project Timeline: 1/31/2024
Date this Form Completed: 6/12/2023

Brief Description of Achievements for January 1 –March 31, 2023

Task 1: Project Management
Percent of Task Completed: 10%
Deliverable: 1.2 Quarterly Status Reports
Description of Achievements:

Completed progress reports with invoices. Meetings with the consultant to review schedules, deliverables, and invoicing.

Task 2: Study Design Communication, QAPP Update and Site Selection
Percent of Task Completed: 64%
Deliverable(s): 2.1 Summary of Study Kick Off Meeting, 2.2 Draft QAPP, 2.3 Final QAPP, 2.4 Site Selection Criteria Checklist, 2.5 Site Selection Technical Memorandum
Description of Achievements:

Completed Kick Off Meeting January 5, 2023, draft QAPP on February 24, 2023, and began communications with potential partners.

Task 3: Field Assessment, Data Collection and Analysis
Percent of Task Completed: 0%
Deliverable(s): 3.1 Hydrologic Review, 3.2 Geotechnical and Hydrogeologic Data/Report, 3.3 Vegetation and Maintenance Data/Report
Description of Achievements:

Not started

Task 4: Summary Analysis and Report
Percent of Task Completed: 0%
Deliverable(s): 4.1 Preliminary Results Meeting (Olympia PM, Ecology staff, SWG), 4.2 Draft Final Report, 4.3 Comment Response Meeting Summary, 4.4 Final Report
Description of Achievements:

Not Started

Tasks/Milestones not achieved and why:

Final QAPP was delayed due to internal formatting and submitted June 2, 2023.

Potential Future Challenges to Performance (time delays, staff changes, etc.):

We anticipate that Task 3 deliverables will be delayed due to a slow start to site selection. We appreciate the assistance of SAM and the Stormwater Group with getting the word about regarding the study. We did not anticipate the resistance from a number of school districts (early adopters of bioretention) but we expect to identify 50 sites regardless.

General Comments:

None.

SAM Quarter 2 Apr.-Jun. 2023 Report

Project Title: Evaluation of Long-Term Bioretention Soil Infiltration Rate Related to Vegetation, Maintenance, Soil Media and Geotechnical Site Parameters
Contract Agreement Number: C2300003
Organization: City of Olympia
Project Manager: Jesse Barham
Project Timeline: 1/31/2024
Date this Form Completed: 6/30/2023

Brief Description of Achievements for April 1 –June 30, 2023

Task 1: Project Management
Percent of Task Completed: 18%
Deliverable: 1.2 Quarterly Status Reports
Description of Achievements:

Completed progress reports with invoices. Meetings with the consultant to review schedules, deliverables, and invoicing.

Task 2: Study Design Communication, QAPP Update and Site Selection
Percent of Task Completed: 93%
Deliverable(s): 2.1 Summary of Study Kick Off Meeting, 2.2 Draft QAPP, 2.3 Final QAPP, 2.4 Site Selection Criteria Checklist, 2.5 Site Selection Technical Memorandum
Description of Achievements:

Completed Final QAPP on June 2, 2023. Completed 2.4 Site Selection Criteria Checklist and Round 1 of 2.5 Site Selection Technical Memorandum on May 9, 2023. Round 2 of 2.5 Site Selection anticipated mid-July.

Approximately 35 - 40 eligible bioretention sites have been identified from largely public but also a few residential and one private commercial site. Additional outreach is in progress to add the final candidate sites. An alternative for identification of the targeted fifty cells is to conduct tests and vegetation surveys at more than one cell at a given site, which is already being conducted at a select number of sites. Sites where more than one cell is being tested are selected where the cell environmental conditions are different at the site, or where sites were previously tested in earlier phases.

Task 3: Field Assessment, Data Collection and Analysis
Percent of Task Completed: 14%
Deliverable(s): 3.1 Hydrologic Review, 3.2 Geotechnical and Hydrogeologic Data/Report, 3.3 Vegetation and Maintenance Data/Report

Description of Achievements:

Field work for 3.2 and 3.3. To date, 11 infiltration tests and 13 vegetation assessments have been completed.

Data compilation for these completed sites is underway and is targeted for data entry completion by Friday June 30. Most water sources for infiltration testing have been hydrants allowing for full pool testing. Infiltration tests with “hose-bid” water sources (generally lower flow rates) were run to increase surface area coverage. For vegetation, the cool spring and summer so far has allowed sites to remain well vegetated for ease of plant identification. Sites are surveyed by a single common biologist for consistency, and the few unknown plants are photographed for later identification with other office experts.

Task 4: Summary Analysis and Report

Percent of Task Completed: <1%

Deliverable(s): 4.1 Preliminary Results Meeting (Olympia PM, Ecology staff, SWG), 4.2 Draft Final Report, 4.3 Comment Response Meeting Summary, 4.4 Final Report

Description of Achievements:

None

Tasks/Milestones not achieved and why:

2.5 Site Selection Technical Memorandum was divided into two parts so that Task 3 could begin.

Potential Future Challenges to Performance (time delays, staff changes, etc.):

We anticipate that Task 3 deliverables will be delayed due to a slow start to site selection. We expect to have Round 2 of 2.5 Site Selection completed by mid-July. The delay in field work for Task 3 may cause a shift in Task 4, 5 and 6 deliverables by up to 3 months.

General Comments:

None.