City of Camas
Stormwater Management Action Plan
NPDES MS4 2024-2029 Permit Cycle

Introduction

The City of Camas (City) is contracting with Parametrix to develop the City's 2024 Stormwater Management Action Plan (SMAP), based on requirements of the Washington State Department of Ecology (Ecology) National Pollutant Discharge Elimination System (NPDES) Phase II Municipal Stormwater 2024–2029 Permit (Permit). Parametrix will apply Ecology guidance to conditions unique to the City to prepare a SMAP that is based on Permit requirements.

From 2021 to 2023, Parametrix supported the City in completing its SMAP as part of the 2019–2024 NPDES Phase II Municipal Stormwater permit cycle (2019 SMAP).

Task 01 – Project Management

Objective

The purpose of this task is to track, manage, document, and report on the Parametrix work effort.

Deliverables

- Monthly progress reports enclosed with invoices.
- Miscellaneous correspondence to document project management issues.
- QA/QC review documentation (delivered upon request).

Assumptions

- Project management will extend through March 31, 2027 (approximately 11 months).
- Budget assumes 22 virtual, biweekly (every 2 weeks) 30-minute meetings.

Task 02 – Project Initiation and Data Collection

Objective

The purpose of this task is to kick off the project, define the project objectives, establish team member roles and communications, and collect data needed for the FutureShed update and following identification of stormwater management actions (SMAs).

Approach

Kickoff Meeting. Parametrix will prepare for and facilitate a kickoff meeting with City staff. The meeting will include introduction of the project team; definition of the project objectives; review of the scope of work and schedule milestones; describe the communications plan; and prepare the risk register.

Data Collection. Parametrix will use the data collected from the first round of the SMAP and work with the City's GIS department to update data layers that have changed since development of the 2019 SMAP. The following data updates may be included:

- Land cover.
- Stormwater conveyance piping and infrastructure.
- Stormwater facility locations and types.

Deliverables

- Agenda for kickoff meeting, Word document.

Assumptions

- Up to three Parametrix staff members will participate in the kickoff meeting. One, virtual, 2-hour meeting is assumed.
- Where available, the City will provide Parametrix with information in electronic format via email, FTP site transfer, or a file-share platform hosted by Parametrix (such as OneDrive/SharePoint or ProjectWise).
- Parametrix will use data collected and assumptions developed for the 2019 SMAP. The City will provide additional data and direction to support updates to land cover, stormwater conveyance systems (including piping and related infrastructure), and stormwater facility locations. Formal documentation of data gaps (i.e., a data gap memorandum) is not included in this scope of work, but Parametrix will supplement gaps in land cover data from publicly available databases where available.
- If available in the City's current records, the City will provide the following information:
  - → GIS data listed above.
  - → Most recent NPDES annual reports and stormwater management program documents.
  - → Water quality data from surface water or stormwater monitoring programs.
  - → Existing modeling data on the City's stormwater system and drainage basins within the City.
  - → Results of a recent stormwater system needs assessment, including a map of problem areas and basic project sheets developed to date.
- Overburdened community information will be based on the Washington State Department of Health's Environmental Health Disparities Mapping Project, as referenced in the Permit.
- The City will provide Parametrix with document review comments from all City reviewers consolidated into a single electronic file.

Task 03 – Receiving Water Prioritization Update

Objective

The purpose of this task is to update the prioritization of watershed protection needs via the FutureShed GIS/spreadsheet methodology to help the City determine if it will select a new high-priority catchment area or remain in the previous SMAP catchment to identify additional actions.

Approach

FutureShed Catchment Scoring Update. Parametrix will update the FutureShed GIS/spreadsheet model for the City with the latest model parameters (drainage basins, land cover, stormwater management coverage), with updates based on data collected in Task 2. Existing and projected future water quality and flow control contribution scores will be calculated for SMAP citywide catchments. Future scores will be based on default build-out scenarios, similar to those used in the 2019 SMAP.

City Workshop. Parametrix will facilitate a workshop with the City's SMAP Interdisciplinary Team at the beginning of the City's review period to review the updated FutureShed catchment scores, answer questions, and select a priority catchment area (either a new high-priority catchment area or remain in the previous SMAP catchment to identify additional actions) to target for stormwater management planning in Task 04.

Public Engagement Support. Parametrix will update the web-based GIS StoryMap from the 2019 SMAP with new information suitable for distribution to the public and for the City to share with Ecology.

Deliverables

- Summary tables of FutureShed scoring results.
- Agenda for City Workshop, Word document.
- Figure of selected priority catchment area, PDF.
- A web-based GIS StoryMap, updated from the 2019 SMAP, suitable for distribution to the public and for the City to share with Ecology.

Assumptions

- Previous documentation of the 2019 SMAP Receiving Water Assessment and the Receiving Water Prioritization will be included as appendices to the SMAP report (Task 04 below), and will not be updated except for the FutureShed model results completed as part of this task.
- Up to two Parametrix staff members will participate in the City workshop. One 2-hour meeting is assumed. The City will identify and invite other City staff to participate in the meeting.
- Public Engagement Support budgeted, including anticipated effort to update the StoryMap, is not to exceed 48 hours.

Task 04 – SMA Identification and SMAP Report

Objective

The goal of this task is to identify and document high-level SMAs that may improve the condition of the high-priority watershed identified in Task 03 based on the requirements of Permit Section S.5.C.1.d.iii.

Approach

SMA Identification. Parametrix will work with the City to build on work the City has already started to identify and finalize a list of the following:

- Concept-level potential **stormwater facility retrofits** for the area, including identification of BMP types (in broad categories such as distributed low-impact development retrofits, regional or catchment area flow control facilities, or targeted water quality media filtration) and preferred locations where possible (in general categories such as regional vs. site-specific facilities, retrofits in the right-of-way vs. parcels, or excluded areas such as protected natural resources).
- **Land management or development strategies** and/or actions for stormwater management. Parametrix will help draft text (approximately one page) to describe up to three land management or development strategies.
- **Targeted, enhanced, or customized permit-related** SMAs such as illicit discharge detection and elimination (IDDE) field screening, prioritization or source control inspections, operation and maintenance inspections, enhanced maintenance, and/or public education and outreach behavior change programs. Parametrix will help draft text (approximately one page) to describe up to three permit-related actions.
- If applicable, changes needed to local long-range plans to address SMAP priorities.
- A proposed implementation schedule and budget sources for short- and long-term actions.
- A process for future assessments and feedback to inform future changes.

City SMA Check-In Meeting. Parametrix will facilitate a meeting with City staff to review and confirm potentially selected SMAs before finalization of the draft SMAP report.

Retrofit SMA Documentation. Parametrix will develop up to three concept-level stormwater facility retrofits for the selected site. The concept design will be documented as follows:

- A "project one-sheet" (one-page summary sheet) in PDF with project location, high-level concept design drawing, and narrative description including site constraints and opportunities.
- Planning-level construction cost: AACE Class V cost estimates (order of magnitude) based on summary sheet.

SMAP Report. Parametrix will develop draft and final SMAP reports that outline the identified actions and incorporate adjustments based on public comment, as approved by the City.

Deliverables

- Draft list of SMAs for structural retrofits and targeted areas for City review in Microsoft Word and PDF electronic file formats.
- Agenda for Check In Meeting, Word document.
- Updated draft SMAP report for one high-priority basin for City review in Microsoft Word and PDF electronic file formats, approximately 30 pages (not including appendices).
- Final SMAP report for one high-priority basin in Microsoft Word and PDF electronic file formats, approximately 30 pages (not including appendices).

Assumptions

- Up to two Parametrix staff members will participate in the City staff check in meeting. One, virtual, 2-hour meeting is assumed. The City will identify and invite other City staff to participate in the workshop. The City will coordinate the location and time and have key City staff at the meetings based on planned topics.
- The 2024 SMAP report will follow the 2019 SMAP report format and content.
- Parametrix will be responsible for developing the figures which will be included in the SMAP report.
- The City will provide Parametrix with SMAP report review comments from all City reviewers consolidated into a single electronic Excel table file.
- The City will take the lead on responding to all comments from Ecology, with Parametrix support on technical issues as needed.
- For all Ecology permit submittals, Parametrix will submit documents to the City, and the City will submit the documents to Ecology.