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Dean Marriott, Director

August 28, 1998

Oregon Department of Environmental Quality Water Quality Division 2020 SW Fourth Avenue, Suite 400 Portland, Oregon 97201-4987 DEPT OF ENVIRONMENTAL QUALITY BECEIVED AUG 3 1 1998

Attention: Richard Santner

NORTHWEST REGION

SUBJECT: Amended Stipulation and Final Order (ASFO) No. WQ-NWR-91-75 City of Portland Combined Sewer Overflow (CSO) Program Annual Progress Report

Enclosed please find two copies of the subject report submitted per the requirements of the subject ASFO. The report covers Fiscal Year 97-98, ending June 30, 1998.

This submittal is responsive to Section 12.a. (11) of the ASFO which states:

By no later than September 1 of each year that this Amended Order is in effect, the Respondent shall submit to the Department and to the Commission for review an annual progress report on efforts to eliminate untreated CSO discharges, subject to the storm return frequencies specified in Section 12.a of this Amended Order. These annual reports shall include at a minimum work completed in the previous fiscal year and the work scheduled to be completed in the current fiscal year.

If you have questions regarding this year's report, please contact me (823-7115) or Lissa Druback (823-7735).

Sincerely yours Becky Kreag

Manager System Development Group

Enclosure

c: Dean Marriott, BES/Director Lissa Druback, BES/Systems Development Group Lester Lee, BES/Systems Development Group Lee Klingler, BES/CIP Management Group Joan Saroka, BES/Communications

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COMBINED SEWER OVERFLOW PROGRAM

ANNUAL PROGRESS REPORT TO DEQ

ASFO WQ-NWR-91-75 FISCAL YEAR 97-98 JUNE 30, 1998



CITY OF PORTLAND COMBINED SEWER OVERFLOW PROGRAM ANNUAL PROGRESS REPORT FISCAL YEAR 97-98 (ASFO WQ-NWR-91-75)

CITY OF PORTLAND BUREAU OF ENVIRONMENTAL SERVICES

JUNE 30, 1998

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I. Summary

The following summarizes the City of Portland's efforts to minimize and/or eliminate CSO discharges to the Columbia Slough and Willamette River during the past fiscal year:

- Continued work on the Willamette River Basin CSO Predesign Project (WRPP), which will refine the CSO control alternatives identified in the current CSO Management Plan for the Willamette River Basin component of the CSO Control Plan.
- Completed the work related to the renewal of the NPDES Permit for the Columbia Boulevard Wastewater Treatment Plant (CBWTP) and the Columbia Slough and Willamette River basin CSO discharges.
- Continued to implement the Cornerstone Projects to reduce stormwater inflow into the combined sewer system.
- Completed the final design on the Columbia Slough Consolidation Conduit (CSCC), the Columbia Boulevard Wet Weather Treatment Facilities (CBWWTF) Influent Pump Station, the Columbia Boulevard Wet Weather Treatment Facilities (CBWWTF), and the CBWWTF Outfall.
- Started construction of Segments 1, 2, and 5 of the CSCC, the CBWWTF Dry Weather Primaries, and the CBWWTF Chlorination System Improvements.
- Continued CSO operation and maintenance activities to reduce the environmental impact of current CSO discharges.
- Continued implementation of a comprehensive public information/public education/public involvement program.

The program to control CSOs is on schedule and within the projected budget. The current program budget is \$700 million (January 1993 dollars) with expenditures to date of \$122.6 million (actual dollars) and an estimated cost at completion of \$684 million (January 1993 dollars).

The following summarizes the planned efforts to minimize and/or eliminate CSO discharges to the Columbia Slough and Willamette River during the current fiscal year:

- Perform the third year of the WRPP. (This work involves stakeholder and technical process activities designed to re-evaluate and refine the current Willamette River Basin CSO Control Plan in terms of costs and benefits to City rate payers.)
- Integrate the WRPP with the City's Integrated Watershed Planning (IWP) Program.

- Design and/or construct additional CSO Cornerstone Projects (stormwater infiltration drainage sumps, downspout disconnection, stream diversions, and local sewer separation).
- Continue to construct the major CSO control facilities associated with the Columbia Slough Component of the CSO Control Plan.
- Continue current CSO operation and maintenance activities to reduce the environmental impact of current CSO discharges.
- Continued implementation of the public information/education/involvement programs.

II. Introduction

The City of Portland Bureau of Environmental Services (BES) manages the planning, design, construction, and implementation (startup) of all capital projects by means of a Capital Improvement Program (CIP) Management Group. The CIP Management Group programs and tracks capital improvement projects in the six categories identified in the following listing:

Category	Projects Listed in FY97-98	Projects Open in FY97-98
Combined Sewer Overflow	246	97
Maintenance and Reliability	148	97
Mid-County Sewer	30	13
Sewage Treatment	123	76
Surface Water Management	59	32
Systems Development	105	68
Total	711	383

At the end of FY 97-98 there were 711 individual projects listed in the CIP, with 383 projects listed as "open projects" during the year. "Open projects" are all active projects that were not closed prior to the beginning of FY 97-98.

The 246 CSO projects (see Appendix A) represent the CSO Control Plan as it currently exists within the City of Portland. This report focuses on the accomplishments on those projects. It should be noted, however, that there are projects in other CIP categories that will have a positive impact on the control and/or handling of CSO.

This report is submitted to the Oregon Department of Environmental Quality (DEQ) pursuant to Amended Stipulation and Final Order (ASFO) No. WQ-NWR-91-75 issued to the City of Portland (City) by DEQ on August 11, 1994. As stipulated in the ASFO, this

report summarizes the City's efforts to eliminate unauthorized CSO to the Columbia Slough and the Willamette River during the past fiscal year and identifies the work planned under the CSO Program for the current fiscal year.

The ASFO requires that the report be submitted to DEQ by September 1 of each year that the ASFO remains in effect.

III. Background

At the time the original Combined Sewer Overflow SFO was issued in 1991, approximately 60% of Portland's population was being served by a combined sewer system that collected both municipal wastewater (residential, commercial, and industrial sewage) and municipal stormwater (roof runoff; street and paved surface runoff; and urban stream runoff). Currently, when there is a storm event in the City, runoff typically exceeds the carrying capacity of the combined sewer system causing overflows to both the Columbia Slough and the Willamette River through up to 52 individual outfalls.

These overflows are in violation of Federal clean water regulations and have been deemed a significant source of water pollution in both the Columbia Slough and the Willamette River. Before control work began in 1990, the City's CSO outfalls discharged on average approximately 6.0 billion gallons of CSO annually. Approximately 20% of the content of this annual overflow was projected to be untreated municipal wastewater. As of June 30, 1998, due to significant interceptor system improvements, completion of numerous diversion structure modification projects, and the completion of many of the Cornerstone Projects, approximately 2.9 billion gallons/year of CSO has been eliminated based on current model projections.

The current ASFO is essentially a 20-year compliance schedule to reduce overflow from the City's combined sewer system. It includes the following major milestones:

- By December 1, 2000, the City must eliminate all CSO discharges to the Columbia Slough that violate provisions of the ASFO.
- By December 1, 2001, the City must eliminate all CSO discharges that violate provisions of the ASFO at 20 of the CSO outfalls (including the Columbia Slough outfalls) consistent with the Facilities Plan approved by the Environmental Quality Commission (EQC).
- By December 1, 2006, the City must eliminate all CSO discharges that violate provisions of the ASFO at 16 of the remaining CSO outfalls, consistent with the Facilities Plan approved by the EQC.

 By December 1, 2011, the City must eliminate all remaining CSO discharges that violate provisions of the ASFO, consistent with the Facilities Plan approved by the EQC.

Also included in the ASFO are a number of intermediate milestones, including the submittal of annual progress reports to DEQ by September 1 of each year that the ASFO is in effect. The reports are to summarize the work performed during the past fiscal year and identify the work planned for the current fiscal year to eliminate discharges that violate the provisions of the ASFO.

IV. Past Fiscal Year Activities

This section summarizes the CSO abatement efforts for the period beginning July 1, 1997, and ending June 30, 1998. The section is divided into the following subsections:

ASFO Milestones Achieved Program Planning Accomplished Control Projects Planned, Designed, and/or Constructed CSO Operation and Maintenance Activities Public Involvement Activities

A. ASFO Milestones Achieved

Two additional milestones were scheduled and accomplished during the fiscal year. This means that all 35 scheduled SFO/ASFO milestones to date have been met on time since the signing of the initial SFO. The two milestones met during the past year are:

- Submittal of Final Engineering Plans and Specifications for the construction work to eliminate untreated discharges at 20 CSO discharge points, including all discharge points to the Columbia Slough. (This submittal was made on December 1, 1997, as scheduled.)
- Start of the construction work to eliminate untreated discharges at 20 CSO discharge points, including as discharges points to the Columbia Slough. (This work began on June 18, 1997 with the award of the first of a number of construction contracts for the Columbia Slough CSO work.)

B. Program Planning Accomplished

Program planning continues to be an important aspect of the work being performed under the CSO Program. Planning is important to insure that the technical requirements of the ASFO are met within the schedule and budget constraints of the CSO Program. Important planning activities accomplished during the fiscal year were as follows:

- Internal meetings and meetings with DEQ related to the WRPP and the City's IWP Program.
- Internal meetings and meetings with Willamette River Stakeholders Task Force (WRSTF), to develop and provide technical and nontechnical information related to the progress on the WRPP and the IWP Program. (The WRSTF, which includes neighborhood, business, industry, civic, environmental, city, and regulatory representatives, has been providing guidance on the WRPP and IWP Program. After the City's Willamette River Basin CSO Control Plan is fully defined, the WRSTF will be making recommendations to the Portland City Council and the Bureau of Environmental Services on how to best implement the plan. Five formal meetings were held during the fiscal year.)
- Continued the WRPP, which will refine the CSO control alternatives identified in the current CSO Management Plan and perform a ten percent design of the recommended projects. Planning is scheduled to be completed by June of 1999, with the ten percent design to be completed by December 1999. The results of the WRPP will be integrated into the City's IWP Program.

An important component of the WRPP work was a two-day meeting with a group of National experts from across the country (The Advisory Committee) to present the work of the WRPP and receive feedback on the merits of the work relative to the control of CSO in the Willamette River Basin. The recommendations of the committee, which reflect a more integrated watershed approach in the Willamette basin, were published and presented to BES staff, BES management, and the WRSTF.

C. CSO Control Projects Planned, Designed and/or Constructed

As noted in Section II, 97 of the 246 projects in the City's CIP directly related to the CSO Program were active during the fiscal year. To be "active" a project must have been in at least one of the following project phases:

Predesign Design Advertise/Bid Construction Close Out/Startup

A review of the schedules in the Appendix A information will provide a visual indication of

the status of each of the 97 projects. The following is a narrative summary for some of the major projects and project groups:

Downspout Disconnections

Continued with the voluntary program in most of the Columbia Slough Watershed and disconnected 5,256 downspouts at 2,319 residences. Completed the Fiske B Basin mandatory program, raising the disconnection rate to over 80 percent of the roof area in the basin. Began mandatory programs in the St. Johns A, St. Johns B, Oregonian, and Oswego basins.

Stormwater Infiltration Sumps

Continued to construct sumps in the Willamette River Watershed, with a total of 113 sumps installed during the fiscal year. All of the sumps were installed in the various Taggart basins.

Tanner Creek Stream Separation

Continued to work on the various components (phases) of the Tanner Creek stream separation work. Design work was accomplished on Phases 1 and 2, and construction was performed on Phase 1.

Columbia Slough Consolidation Conduit (CSCC)

The CSCC has seven components of design work (Segments 1, 2, 3A, 3B, 4, 5, & 6). Work was performed on six of the segments during the past fiscal year. Design work was performed on Segments 3A, 3B, & 4; Segments 1, 2, & 5 were bid; construction took place on Segments 1, 2, & 5; and Segment 5 was completed.

Columbia Boulevard Wet Weather Treatment Facilities (CBWWTF)

The CBWWTF has one major design package with seven individual construction packages (Flowmeter Replacement, New Primary Clarifiers, Modification to Wet Weather Primaries, Effluent Pump Station Improvements, CBWTP Chlorination System Improvements, Dechlorination Facility, and Environmental Enhancements). Work was performed on three of the construction packages during the past fiscal year. Bidding and/or construction was performed on the Flowmeter Replacement, the New Primary Clarifiers, and the CBWTP Chlorination System Improvements.

CBWWTF Influent Pump Station

The CBWWTF Influent Pump Station has one design and one construction package. The design was completed and the construction package was bid during the fiscal year.

CBWWTF Outfall

The CBWWTF Outfall has one design package and two construction packages (Outfall and Outfall Clear & Grub). The design was nearly completed and the Clear & Grub construction package was bid during the fiscal year.

Willamette River CSO Predesign Project (WRPP)

The WRPP is a 14 task planning and preliminary design project designed to re-evaluate and refine the current CSO control plan for the Willamette River Basin. The project has the following tasks:

- S1 Stakeholders Task Force (41)
- S2 Public Outreach Activities (50)
- S3 Willamette River Basin Activities (38)
- M1 M/W/ESB Support Activities (9)
- T1 CSO Pollutant Characterization (95)
- T2 Regulatory Issues and Permitting (43)
- T3 Water Quality Impact Evaluations (74)
- T4 Green Solutions and Inflow Controls (99)
- T5 Collection System Optimization (76)
- T6 Overflow Treatment Strategy (98)
- T7 Identification of Integrated Control Alternatives (64)
- T8 Evaluation of Integrated Control Alternatives (1)
- T9 Predesign of Selected CSO Control Plan (0)
- T10 Project Management (52)

Work was performed on all tasks except Task 9 during the fiscal year. The values in parenthesis after each task description are the total percent complete at the end of the fiscal year. Overall the project was estimated to be 48 percent complete at the end of the year.

D. CSO Operation and Maintenance Activities

Continued implementation of operation and maintenance practices that reduced the impact of CSOs on the receiving streams. Although the following represents the City-wide effort, the majority of this work was performed within the CSO area:

Sewer Cleaning Catch Basin/Inlet Cleaning Drainage Sump Cleaning Street Sweeping 154 miles 9,671 units cleaned 346 units cleaned 36,588 curb miles

E. Public Involvement Activities

Public involvement activities related to CSO Program continued on both the program and the project level during the fiscal year. The activities included general public information activities, general public education activities, Willamette River activities and events, and Columbia Slough CSO activities and events. The following is a summary of the activities and events in each category:

General Public Information

Public Notification/River Alert Signage Program: The City continues the ongoing River Alert Signage program, which began in the summer of 1991. The program includes CSO identification signs. These signs indicate where outfall pipes are located (similar to a NO PARKING sign). It also includes folding signs with the message WARNING: SEWAGE. The folding signs are opened and closed every time there is an overflow from May 15 to October 15 each year. During the winter months the signs remain open with the message in view for boaters and other river users.

The River Alert program also notifies the media (by fax) every time there is an overflow from May 15 to October 15. The Oregonian Newspaper carries an Overflow Icon on the top of the weather page when overflows occur.

Clean River Works Construction Signage: The City now requires contractors to develop and post signage at any sewer system-related construction site with the Clean River Works message to inform the public that the construction is a sewer project designed to keep our rivers and streams clean.

Media Relations: The City uses several techniques to gain media coverage of CSO projects. Media advisories, news releases and media events are used to alert the media about CSO projects. Individual briefings are also held with reporters. The City provides timely, accurate information to all media requests and keeps files of all newsprint and broadcast media coverage.

The City released 49 media notifications regarding the combined sewer overflow program during the fiscal year. Fifteen were related to actual combined sewer overflows during the summer notification period. Other notifications were about Big Pipe construction, Tanner Creek stream diversion construction, work of the Willamette River Stakeholder Task Force, and general information about the program.

Bill Inserts: The City produces a water/sewer bill insert each year to provide 120,000 residential customers with information about the combined sewer overflow program.

General Public Education

Environmental Education: The City provides free water quality education programs to Portland schools and community groups. A special Combined Sewer Overflow presentation is available for students in grades 6 to 12. Students learn the history of the CSO problem, talk about solutions and discuss how to pay for improvements. More than 7,000 students were contacted with information about the combined sewer overflow program.

A plastic model has been developed that physically shows (with the use of water) how overflows actually occur. The Clean River Quest computer game and computer kiosks are still used by schools and community groups. The kiosks have been located at Fred Meyer stores and OMSI.

Web Site: Environmental Services has a home page with the following address: www.europa.com/environmentalservices. This site has a section about the combined sewer overflow program that includes specific information about the Columbia Slough, Cornerstone, and Willamette River CSO projects.

Willamette River Activities and Events

The City develops public outreach plans with guidance from citizen task forces and committees. Over the past year, with volunteer support, the bureau developed new programs to help citizens learn more about the importance of protecting Portland's streams and rivers. These hands-on programs focused on getting people to learn more about issues impacting rivers and streams. The activities and events included:

- Wild on the Willamette Walks
- Wild on the Willamette Boat Tours
- School Classroom presentations
- H2O Educational Boat Tours
- Presentations at Neighborhood Association meetings

The Willamette River outreach activities successfully educated and involved:

- 641 citizens in 36 neighborhood, business and civic meetings;
- 705 students in 40 school outreach activities;
- 457 citizens in 19 Willamette River Walks and Boat Tours;
- 36, 650 people through 13 community fairs, festivals and events;
- 732 people and students in 38 storm drain stenciling events; and
- 45,950 using 17 newsletters, project fact sheets and letters.

Volunteer Activities: In addition to the activities listed above, 10 citizens volunteers have been trained to help the City broaden outreach activities. Staff members and volunteers

have contacted over 84,595 people, utilized 6,049 volunteer hours and created 144 different partnerships with environmental, business, and a variety of non-profit community organizations.

Willamette River Stakeholder Task Force (WRSTF): The WRSTF is a 24 member committee developed in 1996 to assist the Bureau with a technical and policy review of the Willamette River portion of the CSO program. The group is scheduled to complete their work by June of 1999. At that time, they will present their recommendations to City

Council regarding how the City should move forward to improve water quality and control Willamette River CSO.

The task force met with a National CSO Advisors group and with the Governor's Willamette Basin Task Force to discuss broader issues with the CSO Program and the impact of the Program on the entire Willamette River Basin.

Columbia Slough CSO Activities and Events

Columbia Slough Consolidation Conduit (CSCC): During FY 97-98 the Columbia Slough CSO activities focused on providing the public with information about the construction of CSO related projects. In May 1998, approximately 400 local citizens attended the Big Pipe Picnic which was held as a kick-off event to celebrate the start of construction of the CSCC. The City distributed the Big Pipe Update as a quarterly newsletter throughout the year and continued to meet with the Conduit Steering Committee. A media event was held in July 1998 to give local journalists an opportunity to view the work site for the tunneled portion of the conduit. Several newspaper, radio, and TV stations ran stories about the project. Traffic advisories and construction notices were routinely distributed. Construction also began on a noise berm along Columbia Boulevard which is the first phase of community amenities to be included in the project.

CBWWTF Outfall Project: During the summer of 1998, preliminary work started on the CBWWTF Outfall project. During the course of the year, City staff met several times with the Hayden Island community to provide citizens with information about the project and to get input about potential traffic controls. An informational flyer was distributed to area residents to provide them with information about the project and to solicit their input on traffic control.

Sewer Separation Projects: Design work was completed for the North Portland Sewer Separation Project during the summer of 1998. BES staff attended Neighborhood and Business Association meetings to inform the North Portland community about the project and the potential construction impacts. CSO program staff teamed up with staff from the Downspout Disconnection program to make comprehensive presentations to the community about forthcoming construction and the role citizens play by disconnecting their downspouts. **CBWTP Citizen Advisory Committee (CAC):** The CAC, facilitated by BES staff, continued to meet throughout the year. Members of the CAC served on the Conduit Steering Committee and the Outfall Advisory Committee. To keep the committee well educated and informed, committee members are given a presentation each month on various topics related to the CSO construction projects and the treatment plant. Recent topics included a digital photo and construction methodology presentation on construction of the CSCC.

V. Planned Efforts for Current Fiscal Year

The current fiscal year's efforts covers the period beginning July 1, 1998, through June 30, 1999. The work planned for the fiscal year will focus on continued implementation of the Cornerstone Projects throughout the CSO area, the construction/implementation of the control facilities in the Columbia Slough Watershed, and refined planning in the Willamette River Basin. The current year's work is divided into the same five subsections used for the previous year's efforts.

A. ASFO Milestones to be Achieved

Except for the submittal of this CSO Progress Report, there are no major ASFO milestones during the current fiscal year.

B. Program Planning to be Accomplished

Program level planning will continue during the current fiscal year. The activities that will directly impact the CSO Program include:

- Continue work on the WRPP, which will develop the general planning in the 1994 CSO Management Plan to a more detailed predesign of the Willamette River Basin CSO control plan. All remaining task of the WRPP (see Section IV.C) except Task 9 (Predesign of the Selected CSO Control Plan) are scheduled to be completed during the fiscal year.
- Preparation of an Integrated Watershed Plan (IWP) for the City of Portland Willamette Watershed. The purpose of this work is to integrate all the planning and project work that is taking place in the watershed (such as systems development/maintenance, system optimization, CSO control, stormwater management, watershed restoration, Endangered Species Act (ESA) requirements, and flood protection) into a common planning document that can be use to optimize and prioritize the work necessary to best achieve the goal in the watershed. The work accomplished under the WRPP will be "rolled" into the Willamette IWP.

C. CSO Control Projects to be Planned, Designed and/or Constructed

The CSO control projects to be planned, designed and/or constructed during the current fiscal year are defined in the schedule in Appendix A. The work includes the continuation of the inflow reduction projects (including stormwater infiltration sump construction, downspout disconnections, stream diversion projects, and sewer separations) along with major CSO conveyance, storage, and treatment facilities to control the Columbia Slough

outfalls. The schedule shows that over 80 CSO projects will be active during the fiscal year.

D. CSO Operation and Maintenance Activities Planned

Continue the implementation of operation and maintenance practices that reduce the impact of CSOs on receiving streams. This City-wide effort will include the following project work:

Sewer Cleaning: Catch Basin/Inlet Cleaning: Drainage Sump Cleaning: Street Sweeping: 152 miles 6,030 catch basin/inlets 1,572 sumps/sedimentation manholes 45,000 curb miles

E. Public Involvement Activities Planned

The public information, education, and involvement activities planned for the current year include a continuation of the same types of activities conducted during FY 97-98. Some of the programs include:

Wild on the Willamette walks and boat tours
H2O boat tours
Volunteer recruitment and training
CSO classroom education program
Willamette River Stakeholder Task Force
CSO River Alert signage/notification program (signs will be updated this year)
Continued promotion and education outreach for the Downspout Disconnection Program.
CBWTP Citizen Advisory Committee
CSCC construction notifications
Tanner Creek construction notifications
Wild on the Willamette newsletter
Rivers and Streams newsletter

VI. Conclusions

- The City is making very good progress and is on schedule towards the target reduction
 of CSO's as evident by the above list of accomplishments and the work planned for the
 current year.
- The ASFO milestones to be accomplished during FY 97-98 were met as planned and as scheduled. This means that all of the 35 SFO/ASFO milestones scheduled to be completed through the end of FY 97-98 have been met on time. The City has every intention of maintaining this perfect record.
- The City conducted substantial operation and maintenance of the CSO collection system during the past fiscal year to reduce the environmental impact of current CSO discharges, and the City plans to continue with this effort during the current fiscal year.
- The public involvement/public outreach activities will continue to expand and improve the public's understanding of the City's combined sewers and the impact of CSO discharges on water quality in the Columbia Slough and the Willamette River. The City will continue to deliver a comprehensive Clean River message through quarterly direct mail newsletters to the rate payers.
- Because of significant interceptor system improvements, completion of numerous diversion structure modification projects, and rapid implementation of the Cornerstone Projects to date, the City has eliminated an estimated 2.9 billion gallons/year of CSO from the Columbia Slough and Willamette River. This represents just over 50% of the total volume of CSO that must be controlled under the conditions of the ASFO.
- The City will be integrating the Willamette River CSO Control Plan with other planning in the City's Willamette Watershed into an Integrated Watershed Plan during FY 98-99.

APPENDIX A

LISTING AND CURRENT SCHEDULE COMBINED SEWER OVERFLOW PROGRAM PROJECTS CITY OF PORTLAND BUREAU OF ENVIRONMENTAL SERVICES CAPITAL IMPROVEMENT PROGRAM

	Activity Description	Rem Dur	%	Early Start	Early Finish	FY97 MAMJ	FY98 JASONDJFMAM	FY99	MAMJ	JAISION	Y00	JAISIOND	01	JASON	Y02 DJJFMAMJ	FY0	3 FMAMJ	FY(
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CSC CSC Pre	O Drainage Sump Program O Drainage Sump Program pare Report of Columbia	757* 757 399	75 10 0	09/29/89A 09/29/89A 07/05/95A	06/29/01 06/29/01 01/31/00		и К ² — 1 — р. 1		- 1	_								
508	3X-Willamette Basin 3 St	Imps				P		20.20	17	-1	(37	-					-
Will Will Mor Pre	amette River Basin Phase 3 amette River Basin Phase 3 hitor Willamette Basin pare Report for Willamette	218° 0° 68° 22°	85 100 0 0	09/27/93A 09/27/93A 01/04/99* 04/12/99	05/11/99 04/13/98A 04/09/99 05/11/99	-		1	7	4							1	
508	33.5425-Stark Basin CSC	Sump P	roject	, Unit #5		1			1		2 1 1							
Star Pred Des Adv Con Clos	rk Basin Sump #5 design - Stark Basin Sump sign & Bid - Stark Sump #5 rertise thru NTP - Stark struction - Stark Basin se Out/Startup - Stark Basin	365 64 95 45 85 47	000000	07/01/98 07/01/98 10/01/98 04/01/99 06/04/99 10/05/99	12/10/99 09/30/98 02/18/99 06/03/99 10/04/99 12/10/99	- -				-1-						- - 		
508	3.5427-Stark Basin CSC	Sump P	roject	, Unit #7											1		-	
Star Pre- Des Adv Con Clos	rk Basin Sump #7 design - Stark Basin Sump sign - Stark Basin Sump #7 - rertise thru NTP - Stark Instruction - Stark Basin secut/Startup - Stark Basin	378* 64 84 41 85 41	000000	07/01/98 07/01/98* 01/04/99* 05/04/99 07/01/99 11/01/99	12/30/99 09/30/98 05/03/99 06/30/99 10/29/99 12/30/99) 							
508	33.5491-Taggart Basin C	SO Sum	#2		0.000	51	a a a	8 6	3	1	1		÷.		0	10 10	10	T
Tag	gart Basin Sump #2	0.	100	01/11/95A	04/10/97A		1.00				(1
Project Star Project Fial Data Date Run Data	rt 07/01/87		Ear	ly Bar grom Bar Jeal Activity	TR		Cap Q	City of Portla ital Improver uarterly Repo	and - I nent I ort Scl	BES Program nedule	5		Sheet	t 1 of 50				-

17	Activity	Rem	%	Early	Early	EVOT	EVOR	EVM	EVM	EVOI	EXW2	
	Description	Dur	1.11	Start	Finish	MAM	JASONDJEMAMJ	JASONDJEMAMJ	JASONDJEMAMJ	JASONDJEMAMJ	JASONDJEMAMJ	JASONDJEMAMJJA
THE OWNER WAR	Construction - Taggart Basin Closeout/Startup - Taggart	0	100	0 11/21/96A	01/10/97A 04/10/97A	-						
	5083.5493-Taggart Basin	CSO Sum	p #4			9		1				-
91	Taggart Basin Sump #4	0*	100	03/15/95A	12/17/97A							
2	Design - Taggart Basin Sump	0	100	06/22/95A	04/02/97A	-						
3	Advertise thru NTP - Taggart	0	100	04/07/97A	06/13/97A	0.000						
8	Construction - Taggart Basin	0	100	06/16/9/A	07/30/97A	-01 Q						
1	Closeout/Startup - Taggart	0000	100	08/01/9/A	12/1//9/A	13	Contraction 2.9		No.		1	
3.	5083.5494-Taggart Basin (CSU SUM	0 #5	05/00/05 A	07/20/09	1.1.1.1.1.1.1		in the second				
	Design - Taggart Basin Sump	22	100	07/03/954	10/14/974	-	T	П				
	Advertise thru NTP - Taggart	0	100	10/27/97A	12/22/97A	1	and y					
89	Construction - Taggart Basin	0	100	01/06/98A	05/11/98A	1.1		*				
	Closeout/Startup - Taggart	22	48	05/12/98A	07/30/98	3.	1 1 1 1					
	5083.5495-Taggart Basin (CSO Sum	D #6									
ii (Taggart Basin Sump #6	231*	78	03/15/95A	05/28/99							
5	Design - Taggart Basin Sump	77	0	06/20/95A	10/16/98							
÷.,	Advertise thru NTP - Taggart	45	0	10/19/98	12/22/98	0.00						
	Construction - Taggart Basin	61	0	02/23/98	03/23/99	1.0			· · · · · · · · · · · · · · · · · · ·			
01	CloseourStanup - Taggan	40	Deala	03/24/33	03/20/33	-				illi.		
а,	5083.5498-Insley Basin Ca	SU Sump	100	01/19/05 4	10/01/074	-		the second se	a design of the second s			
	Insley Basin Sump #4	0	100	01/02/974	04/03/974	-			1			
	Construction - Insley Basin	0	100	04/07/97A	07/03/97A			1				÷.
	Closeout/Startup - Insley Basin	n õ	100	07/07/97A	10/01/97A							
-	5083.5795-N. Denver & N.	McCellan	Sum	DS		1.			_			
a (N. Denver & N. McCellan Sum	D 0*	100	03/11/96A	04/09/97A	-						
1	Closeout/Startup - N. Denver &	8 0	100	11/20/96A	04/09/97A							
-	5083.5922 Willamette Test	Sump #1	0		1.1.1.1.1.1	0.01		(2 (R
81	Willamette Test Sump #10 -	0*	100	07/26/96A	05/05/97A							
R (Willamette Test Sump #10 -	0	100	10/07/96A	01/08/97A	1010						
8	Willamette Test Sump #10 -	0	100	01/08/97A	02/22/97A			and the second se				
11	Willamette Test Sump #10 -	01.0	100	02/22/9/A	05/05/97A	-				· · · · · · · · · · · · · · · · · · ·		
1	5083.5923 Insley Unit 1.1	· Pn.2	100	00/04/064	00/10/074							
	Construction - Insley Basin	0	100	12/12/96A	02/10/97A	1.1		0.5				
94	E082 E021-Willemette TS#	11	100	TETESOT	ULITO/UTI	1						
1	Willomette TS#11 Overall	0*	100	07/31/96A	06/06/97A	-						
	WilliametteTS#11 Advertise	0	100	12/20/96A	01/21/97A	1						
31	WilliametteTS#11 Constructio	on O	100	01/21/97A	03/07/97A	* *		이 아이는 아이가 아이지 않는 것이 같이 않는 것이 같이 많이 했다. 나는 것이 아이지 않는 것이 않는 것이 아이지 않는 것이 않는 않는 않는 것이 않는 않는 것이 않는				
41	WilliametteTS#11	0	100	03/07/97A	06/06/97A							
2	5083.5958-Williamette TS#	#12	-	2.13.1	1.1.1.1.1.1.1.1.1	6	· · · · · · · · · · · · · · · · · · ·	-t-l-				
91	Willamette TS#12 Overall	0*	100	08/26/96A	07/08/97A							
	WilliametteTS#12 Advertise	0	100	12/30/96A	03/24/97A	1						
<u>8</u> .	WilliametteTS#12 Constructio	n O	100	03/28/97A	04/24/9/A				0	······		
	Williametter S#12	Dhanad	100	04/24/3/1	UTIOGISTA	1						1
1	Juss. 5967-Insley Sump#2	Phasez	100	00/10/064	06/09/974	-						
	Advert thru NTP - Insley Sumr	0	100	11/18/96A	01/24/97A							
3	Construction - Insley Sump #2	0	100	01/24/97A	03/20/97A	P 1						
	Startup/Closeout - Insley Sum	p 0	100	03/20/97A	06/09/97A		1 a a	······································				
	5083.5989-Insley Sump#3	Phase 2							1	1	10 A.	
39	Insley Sump #3 Phase 2	0*	100	10/21/96A	10/15/97A		T I				Y	
-			-	EM.	STR					Shee	1 06 50	2
Proje	et Start 07/01/87		E	arty Bar				City of Portland	RES			5
Proje	et Finish 12/01/12		P	rogress Bar			1 C - 1	city of Fortland -	DEG			
Data	Date 06/30/98		C	Tuca Acavity			Cap	ital Improvement	Program			74
							Qu	arterly Report Sc	hedule			

O Primavera Systems, Inc.

	Activity	Rem	% Early	Early	FY97	FY98	FY99,	FY00	FY01	FY02	FY03
	Description	Dur	Start	FINISH	MAMJ	JASONDJFMAM	JJASONDJEMAMJ	JASONDJEMAMJ	JASONDJEMAMJ	JASONDJEMAMJ	JASOND JEMAMJJA
	Advert Inru NTP -Insley Sump	0	100 01/13/97	A 03/18/97A	1 mar 1	and the second			and the second second		
	Startun/Closeout - Insley Sump #3	0	100 05/06/97	A 10/15/97A			1	1.00 Dec. 1			
A S	5083 6035-Sump Administra	tion					1 m m		· · · · · · · · · · · · · · · · · · ·		
1	Project Summary - Sump	0*	100 07/01/96	A 06/30/97A	-						
	Construction - Sump	Ő	100 07/01/96	A 06/30/97A		·	· · · · · · · · · · · · · · · · · · ·		and the second second		
	5083 6060 Taggart Sump 28	3 Phase	. //		Sec.	1 the state of the literation	1. 1. 1.				
8 F	Facoart Basin Unit 2 Phase II	0*	100 03/18/97	A 10/15/97A		and the state of the					
E	Bid Opening - Taggart Basin	0	100 03/18/97	A 03/18/97A	4 7						
	Construction - Taggart Basin	0	100 04/22/97	A 06/30/97A		TY Y					
(Closeout/Startup - Taggart	0	100 07/15/97	A 10/15/97A							
10	5083.6109 Beech Basin Sun	ps Pha	se l		18		1		1		
E	Beech Basin Phase I	258*	0 03/10/00	03/19/01	1						
i F	Predesign - Beech Basin Phase	30	0 03/10/00	• 04/20/00	1.2	1 1 1	10 10 I				
	Design - Beech Basin Phase I	50	0 04/21/00	06/30/00		1 C C C C C C C C C C C C C C C C C C C	0	10 U			
	Advertise thru NTP - Beech	44	0 07/03/00	09/01/00		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	V - 10 - 10 - 10			1 11
	Construction - Beech Basin	90	0 01/15/01	03/19/01	1.	1 1 1					
	5083 6110 Beach Basin Sun	ne Phe	en II	00/10/01	1	- C - C - C	+ + +	1.1			
ă r	Beech Basin Phase II	259*	0 07/03/00	07/12/01	1					1	
A F	Predesion - Beech Basin Phase	22	0 07/03/00	08/02/00	Q	1	1 A A A		- · · · ·		
i i	Design - Beech Basin Phase II	66	0 08/03/00	11/03/00		X X		1 1			
1	Advertise thru NTP - Beech	42	0 11/06/00	01/08/01							
	Construction - Beech Basin	88	0 01/09/01	05/14/01			-11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Y	P
	Closeout/Startup - Beech Basin	41	0 05/15/01	07/12/01	- ii		(
title i	5083.6111 Essex Basin Sum	ps Phas	se l				1	1			
E	ssex Basin Phase I	263*	0 03/03/00	03/19/01	D. 11			5			
	redesign - Essex Basin Phase	55	0 03/03/00	06/30/00	1.0						24-C
200	dvertise thru NTP - Essex	56	0 07/03/00	09/20/00	15	2					E i i
i c	Construction - Essex Basin	90	0 09/21/00	01/31/01	1	1.	· · · · · · · · · · · · · · · · · · ·	Y			
2	Closeout/Startup - Essex Basin	32	0 02/01/01	03/19/01	- 4	a Dissue Dancia Di	0 0 0 K	1 × × ×			
1	5083.6112 Essex Basin Sum	ps Phas	se II		1		1 D D D				-1-111
E	Essex Basin Phase II	232*	0 07/03/00	06/04/01		1 1 1 1 1	in in ()	14 C			
§. Γ	Predesign - Essex Basin Phase	20	0 07/03/00	• 07/31/00		1	1.0	$1 \sim 1$. n n n	
9 1	Design - Essex Basin Phase II	45	0 08/01/00	10/03/00	12		10 10 1				
	Adventise Infu NTP + Essex	40	0 12/08/00	04/04/01	S	1 1 1					
	Closeout/Startup - Essex Basin	42	0 04/05/01	06/04/01	- 0	1 1 1 r	1				
1	5083 6113 Stark Basin Sum	s Unit !	5&6 Phase II		1.		1				
	Stark Basin Unit 5&6 Phase II	253*	0 07/01/99	06/30/00		- 0 - 0 - 0 m	1 C C C				
F	Predesign - Stark Basin Unit	4	0 07/01/99	• 07/07/99	181		00-6	9	<i>v</i> - 1		
1	Design - Stark Basin Unit 5&6	60	0 07/08/99	09/30/99	1.						
A	Advert thru NTP - Stark Basin	40	0 10/01/99	11/29/99	1.	10 C					
	Construction - Stark Basin Unit	100	0 11/30/99	04/21/00	A.	0.00					
í L	Closeout/Startup - Stark Basin	49	0 04/24/00	06/30/00	1	1- 1- 1-	10 0C 10		1 20	-1	
	5083.6114 Stark Basin Sump	007*	0 07/01/00	04/26/00	- 00	10 10 10	an an 10		4		
	Prodesion - Stark Basin Unit 7	207	0 07/01/99	* 07/07/99				0			
a c	Design - Stark Basin Unit 7	60	0 07/08/99	09/30/99	2 L						
	Advertise thru NTP - Stark	100	0 10/01/99	02/25/00	12 1		Commission of the second				
	Construction - Stark Basin Unit	43	0 02/28/00	04/26/00			a strand to a strand to the		and the analysis of the second s		
1	5083.6116 Taggart Basin Su	mps Un	It 4 Phase II		10	1 K	and the second second		1 . A. A. (1 million 1
	Taggart Basin Unit 4 Phase II	162*	61 07/01/97	A 02/22/99	1		· · · · ·		1		
Project	Start 07/01/87		Earty Bar	MSTR					Shee	1 3 of 50	<
Project	Finish 12/01/12	-	Progress Bar				City of Portland -	BES		1.	
Data D	ate 06/30/98		Critical Activity			Car	ital Improvement	Program			15
Run De	ate 07/24/98					Cuj	montanly Demant C.	hadula			
	C Primavera Systems, Inc.			4		Q	uarterly Report Sc	neutre			

1	Activity	Rom	%	Farly	Farly								
	Description	Dur	/0	Ctart	Eloleh	FY97	FY98	FY99	FY00	FY0	1	FY02	FY03 FY
10	Description	Dui	100	07/01/074	FIIIISII	MAIMJ	JIAISIONIDIJIFIMAMI	JAISONDJIFMAMJ	JASONDJFMAMJ	JIAISIONIDIJ	FMAMJ	JASONDJEMAN	J J A S O N D J F M A M J J A
1 P	redesign - Taggart Basin Unit	33	100	07/01/97A	07/31/9/A		- 1	H. 1					
	dvertise thru NTP - Tannart	46	0	08/17/98	10/20/98								1
	onstruction - Taggart Basin	62	õ	10/21/98	01/21/99								
1 C	loseout/Startup - Taggart	21	õ	01/22/99	02/22/99								
5	083 6119 Taggert Basin Su	imps Un	It 6 P	hase II		· · · · · · · · · · · · · · · · · · ·		1					
T	aggart Basin Unit 6 Phase II	117*	88	03/15/95A	12/15/98					÷			
D	esign - Taggart Basin Unit 6	26	96	06/20/95A	08/05/98			6					
A	dvertise thru NTP - Taggart	36	0	08/06/98	09/25/98								
C	onstruction - Taggart Basin	25	0	09/28/98	10/30/98								
C	loseout/Startup - Taggart	30	0	11/02/98	12/15/98								
5	083.6122 Riverside Basin S	Sumps U	Init 1	Phase II				100 C			20. mail		
R	iverside Basin Unit 1 Phase II	251*	0	07/03/00	06/29/01								
P	redesign - Riverside Basin	20	0	07/03/00*	07/31/00								
D	esign - Riverside Basin Unit 1	53	0	08/01/00	10/13/00								
A	dvertise thru NTP - Riverside	42	0	10/16/00	12/14/00			540.000					
	lossout/Startun - Riverside Basin	90	0	04/26/01	04/25/01		-			-			
5	082 C122 Plyerolde Baolo	Summel	Inle O	Phase I	00/23/01							•	
5	U83.6123 Riverside Basin :	sumps u	init 2	Phase I	00/00/00								
H D	redesign - Diverside Basin	203	0	07/01/99*	08/12/00	6			-				
	esign - Riverside Basin Unit 2	60	0	08/13/99	11/05/99					a			
	dvertise thru NTP - Riverside	44	ő	11/08/99	01/12/00								
C	onstruction - Riverside Basin	100	ő	01/13/00	06/05/00								
C	loseout/Startup - Riverside	19	0	06/06/00	06/30/00	0							
5	083.6177-North Marvland S	Sumos			100 L								
IN	orth Maryland Sumos	0*	100	02/03/97A	01/30/98A	-							
Pr	redesign - North Maryland	0	100	02/03/97A	02/14/97A	10.17							
D	esign - North Maryland	0	100	02/18/97A	04/07/97A								
A	dvertise thru NTP - North	0	100	04/07/97A	06/12/97A	The second se	1.27						Ē
C	onstruction - North Maryland	0	100	06/12/97A	08/20/97A		· · · · ·	Q 12000					1
C	oseout/Startup - North	0	100	08/21/97A	01/30/98A								
510	61 P) Downspout Disconn	ect Prog	ram	network.	1		125 100	and the second	the second se				
5	161(P) Downspout Disconi	nect Pro	gram			1		a de la companya de l					
C	onstruction - Columbia Slough	612	51	07/03/95A	12/01/00			the second second second			5-4 C		and the second s
C	onstruction - Willamette	1,513	0	07/03/00*	06/30/06	-							
5	161.5808-Alameda Downsp	out Dis	con										
D	ownspout Discon In Alameda	506*	54	03/01/96A	06/30/00								
D	ownspout Discon In Alameda	506	0	03/01/96A	06/30/00						- 1		
5	161.5809-Beaumont-Wilshi	ire Down	nspou	t Discon		-					-		
D	ownspout Discon In	506*	54	03/01/96A	06/30/00					1.1			
De	ownspout Discon In	506	0	03/01/96A	06/30/00								
5	161.5810-Bolse Downspou	t Discon	7			1	a construction of the	in the second	· · · · · · · · · · · · · · · · · · ·	-			
D	ownspout Discon In Boise	506*	54	03/01/96A	06/30/00						-		
D	ownspout Discon In Boise	506	0	03/01/96A	06/30/00								
5	161.5811-Humbolt Downsp	out Disc	con			0	and the second			the second second			
D	ownspout Discon In Humbolt	506*	54	03/01/96A	06/30/00					·			
Do	ownspout Discon In Humbolt	506	0	03/01/96A	06/30/00								
5	161.5812-King Downspout	Discon				ac .1		too shakadid			2		
Do	ownspout Discon In King	506*	54	03/01/96A	06/30/00					1			
De	ownspout Discon In King	506	14	03/01/96A	06/30/00								
5	161.5813-Overlook Downs	pout Dis	con			×		10					
D	ownspout Discon In Overlook	506*	54	03/01/96A	06/30/00					- T		T	
roject S	itart 07/01/87		En	ty Bar MS	TR			D. 5 5 D. 5%	1. A A		Sheet	4 of 50	*
roject F	inish 12/01/12		Pro	gress Bar				City of Portland -	BES				
ats Dat	e 96/30/98		Cri	tical Activity			Com	tal Improvement	Drogram				Chr.)
un Dete	07/24/98						Cap	itai improvement i	rogram				- Charles - Char
	O Primarana Systems Inc						Q	uarterly Report Sci	hedule				

	Activity Description	Rem Dur	%	Early Start	Early Finish	FY97 MAMJ	FY98 JIAISIONDIJIFMAMJ	FY99		JASONDJEM	AMJ	JASOND	02 JFMAMJ	FY03	
1	Downspout Discon In Overlook	506	0	03/01/96A	06/30/00										
11.	5161.5814-Sabin Downspou	t Discor	7			Sec. 111			5					1	
	Downspout Discon In Sabin	506*	54	03/01/96A	06/30/00					· · · · · · · · · · · · · · · · · · ·					
1	Downspoul Discon In Sabin	506	Dies	03/01/96A	06/30/00		C				-			-1	
i i	S161.5926-FISKe B Ph 2 Dow	vnspout	100	08/01/06A	01/15/084	. i			10000						
	Construction - Fiske B Sep	õ	100	08/01/96A	01/15/98A			· · · · · · · · · · · · · · · · · · ·			-	-			- 1-
ji, t	5161.6014-Rose City Park D	Iscn				10 1 1	с <u>к</u>	9 F							
	Project Summary - Rose City	527*	49	07/01/96A	08/01/00				1	7					
	Construction - Rose City Park	527	48	07/01/96A	08/01/00				1		-		-		_
Χ.,	5161.6108-Cath. Pk. Dsp. Dl	sc.(Willi	amett	e)					1.						
81	Cath Pk.DS Disc.(Willamette)	221	62	02/05/97A	05/14/99				1 A 1	1		1.1		1.00	
Canol I	Construction-Cath Pk DS	221	14	05/15/98A	05/14/99		1 1 1		in the second		_				
	186(P) PAMSEY LAKE ST	WWET	TD		A Park	X	- 1 - 1	e e 15		1 8	-	1- 1			-
F	Stac FEES Bamaau Laka Br	dator C	antro	STANSARAULTS	10 CONSTRUCTS	2 - T									
П г	Bamsey Lake Predator Control	328*	65	02/01/96A	10/15/99					· · · · · ·		15			
2	Ramsey Lake Predator Control	328	0	04/16/96A	10/15/99										
8	5186.5668-Ramsey Lake Pla	nting &	Irriga	tion		1.0	a 01 12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1.5 1. 1					
	Ramsey Lake Planting &	253*	75	07/05/95A	06/30/99							1.1		8	
青し	Ramsey Lake Planting &	253	8	08/29/96A	06/30/99				and a second second						_
¥ .	5186.5669-Ramsey Lake We	ed Cont	rol			m = -	1 1 1 I	11 11 11 11	1 2 2			Process of			
100	Ramsey Lake Weed Control	253*	69	03/29/96A	06/30/99				and the state of the		-	- 12			
	240(D) Fishe P Separation	200	0.4	USIZOION	00/00/33	1						- 17			
م ا	249(F) Fiske B Separation	17:19:00:00	No rater	Martine The	12.1. OLISPONS	1	1 1 1			2 3		1			
a r	5249(P) FISKE B Basin CSO	Sewer S	epara 81	05/02/944	06/30/99		and the state			1		- P		4 9 C	1
2	Startup/Closeout - Fiske B	253	0	11/12/96A	06/30/99							1.		÷.	
8	5249.5730-Fisk B Water Tree	atment F	acilit	v			T 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		1			1.1.1	1		
1	Fiske B Water Treatment	0*	100	11/18/94A	02/17/98A				1 2		- 1			1 N	
2	Design Fiske B Water	0	100	06/28/96A	02/28/97A	T	2.0.00	· · · · · · · · · · · · · · · · · · ·	And the Constraints	25		1.1.1.1			
	Startup - Fiske B Water	0	100	05/05/97A	07/31/9/A	1.1									
3 L	5240 6200 Fieka R PRF I and	decane	100	00/01/3/14	CLITTOON	1	X X	X X X							
Ĩ	Fiske B PRF - Landscaping	0*	100	11/03/97A	06/30/98A		1 Decision					$1 \leq R$			
	Predesign Fiske B PRF -	0	100	11/03/97A	11/13/97A		10. The second s								
	Design Fiske B PRF -	0	100	11/14/97A	01/29/98A			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1 1			
	Construction Fiske B PRF -	0	100	03/18/98A	04/30/98A	- m		A		3					
2	Closeout - Fiske B PRF -	õ	100	05/01/98A	06/30/98A			and the second second				1.00	1		
1	5249.6416 Fiske B Establish	r -			11.21	- n	1.0.00.000	1	and the second s	1.1.1					
3	6416 - Fiske B Plant	543*	7	05/04/98A	08/23/00	1				A .		1.11			
	Design- 6416 - Fiske B Plant	0	100	05/04/98A	06/15/98A	1	· · · ·	1	of Generation Designs in			1.1.1.1			
1000	Advertise thu NP1 - 6416 Construction -6416 - Fiske B	495	0	05/16/98A	06/21/00	2		1		-				1.1.1	
8	Closeout - 6416 - Fiske B Plant	44	ő	06/22/00	08/23/00	<u>, 0</u>				=					
5	266(P) St. Johns "A" Basin	Sewer	Separ	ation		α	1 1 1	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	the state of the second second						
ŕ	5266(P) -St Johns 'A' Basin									1				1	
1 F	St. Johns A Sewer Seperation	0*	100	11/02/93A	02/26/97A		0. 2	0				8 1			
1000	Closeout/Startup - St. Johns A	0	100	02/23/96A	02/26/97A		· · · · · · · · · · · · · · · · · · ·	and the second		+		- · · · · · · · · · · · · · · · · · · ·		the Carolina	
Projec Projec Data 1 Run I	ct Start 07/01/87 ct Finish 12/01/12 Date 06/36/98 Date 07/24/98		Ea Pro	riy Bar MS ogram Bar litical Activity	TR		Cap	City of Portland - ital Improvement warterly Report Sc	BES Program hedule		Sheet	5 of 50			

O Primavera Systems, Inc.

Activity Description	Rem Dur	%	Early Start	Early Finish	FY97 MAMJ	FY98 JAISONDJEMAMJ	FY99 JAISIOINDIJIFMAMIJ	FY00 JIAISIOINDJJFMAMJ	FY01 JAISIOINDJFMAMJ	FY02 JIAISIOINDIJIFIMIAIMIJ	FY03 JAISIOINDIJEMAMJJJA
5273(P) Ramsey Lake Storn	n Trunk	2015		1327312	-						
5273(P) Ramsey Lake Stor	m Trunk						1				÷
Ramsey Lake St Trunk Closeout/Startup - Ramsey	0.	100 100	11/02/93A 11/25/96A	04/01/97A 04/01/97A	2						
5291(P) Oregonian Basin S	eparatio	n			人二	0	10 I. I.				
5291(P) Oregonian CSO Pr	olect					1	1 To 1 To 1 To 1				
Oregonian CSO Project Design - Oregonian Sewer Sep Advertise thru NTP - Oregonian Construction - Oregonian CSO	0.00	100 100 100	11/01/94A 10/31/96A 03/17/97A 05/23/97A	01/30/98A 03/15/97A 05/23/97A 08/08/97A							
Closeout - Oregonian CSO	ő	100	08/11/97A	01/30/98A	1200						· · · · · · · · · · · · · · · · · · ·
5292(P) Oswego Basin Sepa	ration	a h	A Charles	and the second			· · · · · · · · · · · · · · · · · · ·				
5292/P) Oswego Basin		12.01.82	10 Bages processo								
Oswego Sewer Separation Design - Oswego Sewer Sep Advertise thru NTP - Oswego Construction - Oswego Sewer Closecut/Struture Orwego	0.00	100 100 100 100	07/03/95A 10/31/96A 02/17/97A 05/05/97A	01/30/98A 02/14/97A 05/02/97A 07/31/97A 01/20/98A							
5292 6086-North Portland	Sowor Se	narat	lon	01/30/304	1	- 1 a					
North Portland Sewer Design - N Portland Sewer Sep Advertise thru NTP - N Portland Construction - N Portland Closeout/Startup - N Portland	388* 0 1 37 311 40	49 100 41 0	01/09/97A 01/09/97A 05/04/98A 08/21/98 11/16/99	01/13/00 05/01/98A 08/20/98 11/15/99 01/13/00					· · · · · · · · · · · · · · · · · · ·		5
5292.6338 Diversion Structure Diversion Structure Modification Design - Diversion Structure Advertise thru NTP - Diversion	ure Mod 212* 87 60	1fication 37 15 0	01/05/98A 01/05/98A 01/05/98A 11/02/98 02/01/99	05/03/99 10/30/98 01/29/99 02/26/99							- <u>1</u>
Closeout/Startup - Diversion	46	ő	03/01/99	05/03/99	1.0	2		million income			
5302(P) Columbia Slough (Jutfall	1.1	(£1.1.1.1) 01 (5.1.1.1)	1.84.4	· · · · ·						
5302(P) Col WWTE Outfall	1	1020	(Careport and		30	() () () () () () () () () ()	0 - C		2		1
CBWWTF Outfall Predesign - CBWWTF Outfall Design - CS\Blvd WWTF Advertise thru NTP - CS\Blvd Constr CS\Blvd WWTF Closeout/Startup - CS\Blvd	590* 0 23 134 508 20	63 100 85 0 0	07/01/94A 07/01/94A 05/01/97A 08/03/98* 09/28/98* 10/03/00	10/30/00 04/30/97A 07/31/98 02/12/99 10/02/00 10/30/00	-						
5302.6315 Outfall Easemen	t Aquisi	lon			1.	The second second			i		1
CBWWTF Outfall Easement Outfall Easement Aquisition	168* 168	46 52	12/08/97A 12/08/97A	03/02/99 03/02/99							
5302.6406 Outfall Clear & C	Grub		1.11		1	1 1 1 1					
6406- Outfall Clear & Grub 6406 - Advertise thru NTP ConstrOutfall Clear & Grub 6406 - Closeout/Startup	53* 24 20 9	19 40 0 0	06/12/98A 06/12/98A 08/04/98 09/01/98	09/14/98 08/03/98 08/31/98 09/14/98	8						
5322(P) Tanner Creek/Nico	la	8. OF		and the second	1 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 11 C 11 C 11 C 11				
5322(P) Tanner Creek/Nico	lal 757*	57	07/01/944	06/29/01							
Balance of Tanner	757	58	07/01/94A	06/29/01					· · · · · ·	T	

Project Start 07/01/ Project Finish 12/01/ Data Date 06/30/ Run Date 07/24/ O Primavera Systems, Inc.	87 Early Bar 12 Early Bar 18 Early Critical Activity 98	Sheet 6 of 50 City of Portland - BES Capital Improvement Program Quarterly Report Schedule	

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	Activity	Rem	%	Early	Early	EY97	FY98	FY00	EY00	EV01	- 1	FY02	EV03
	Description	Dur		Start	Finish	MAMJ	JASONDJEMAMJ	JASONDJFMAMJ	JASONDJFMAMJ	JASONDJE	MAMJ	JASONDJEMAM	JASONDJEMAMJJA
	5322.5406-Tanner Creek Se	wer: Phi	asel			0.11		and the second					
1	Tanner Basin Phase 1	549*	65	07/01/94A	08/31/00		the second s						
3	Design - Tanner Basin Phase 1	0	100	12/01/94A	07/31/97A		A DESCRIPTION OF A DESC	Contraction and the second sec			- 1		I I
8	Advertise thru NTP - Tanner	53	0	03/01/99*	05/12/99	-	the second second second						
3	Construction - Tanner Basin	254	0	05/24/99*	05/24/00				1	*			
1	Closeout/Startup - Tanner	69	0	05/25/00	08/31/00								
200	5322.5407-Tanner Creek Se	wer: Phi	ase 4					the second se					
1	Tanner Diversion Phase 4	756*	57	07/01/94A	06/28/01								
	Design - Tanner Diversion	0	100	03/10/95A	01/28/97A				1		-		
1	Advrt thru NTP - Tanner Divrsn	64	0	04/03/00*	06/30/00								
	Construction - Tanner Divrsn	207	0	07/03/00	04/27/01			1 million 1			-11		
Ň	Close/Stup - Tanner Diversion	43	0	04/30/01	06/28/01	- 1					_		
A.	5322.5500-Tanner Diversion	Mid-Cr	eek: F	phase 2		-							
8	Tanner Basin Phase 2	480*	44	01/01/97A	05/24/00								
3	Predesign - Tanner Basin		100	01/01/9/A	06/30/97A		a second and the second	and the second			× 1		
20	Design - Tanner Basin Phase 2	101	58	07/01/9/A	02/19/99 .	1 T							
務	Advertise thru NTP - Tanner	254	0	05/24/00*	05/12/99	1.1					1		
2	Construction - Tanner Basin	2.04	Caral	05/24/35	05/24/00	-1							
0	5322.5501-Tanner Diversion	upper	Creek	Phase 3	00/00/01						4		
	Tanner Basin Phase 3	151	100	07/01/94A	06/29/01								
8	Decian - Tanner Basin Phase 3	441	100	07/01/944	03/31/00								
÷.	Advertise thru NTP - Tanner	64	ő	04/03/00	06/30/00	200	100 - 1 - 100 b						1
ŝ	Construction - Tanner Basin	219	ŏ	07/03/00	05/15/01		1	1 1 1	(0)		- 1	· · · · · · · · · · · · · · · · · · ·	2 - 0 1
8	Closeout/Startup - Tanner	32	õ	05/16/01	06/29/01	×							
3	5322 5013-Tenner Phase I II	nit 2				1.1					1		
2	Tanner Phase I Unit 2	37*	03	07/08/964	08/20/98	-		- C					
8	Design - Tanner Phase I Unit	0	100	08/02/96A	01/27/97A	1941.001	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
	Advert thru NTP -Tanner Phase	ō	100	01/28/97A	05/09/97A								1 m
1001	Construction - Tanner Phase I,	0	100	05/01/97A	05/18/98A			V					1 A
8	Startup/Closeout - Tanner	37	0	05/19/98A	08/20/98	<u></u>		A					in the second second
14	5322.6076-Tanner Creek Wa	ter Feat	ure						25.0				1
	Tanner Creek Water Feature	301*	43	08/04/97A	09/08/99	1. 3	(International States				· · · · ·		
	Predesign - Tanner Creek	301	0	08/04/97A	09/08/99								
-	5332(P) Columbia Slough Co	onsolida	tion	Conduit		L III							
T	5332(P) Columbia Slough C	onsolid	ation	Condult			and the state of the set		1 N		-		
8	Columbia Slough Consolidation	606*	62	08/08/94A	11/22/00						1		
2	Design - Col SI Consol Conduit	0	100	01/08/96A	07/29/97A			also also a successioned and a succession of the					1 1
Ĩ.	Advertise thru NTP - Col SI	0	100	03/17/97A	11/28/97A			and the second s		- T			
4	Construction - Col SI Consol	587*	29	07/22/97A	10/25/00	•		The Transformer		Y	- 1		1
-	Closeout/Startup - Col SI	606*	14	02/05/98A	11/22/00	4					1		
	5332.6181 CSCC Seg 1 - Co	ndult Ot	11 58 1	O CBWTP		5-1	Contraction of the second s				V		
1	CSCC Seg 1 - Conduit Otfl 58	339*	40	08/11/97A	11/01/99	Que i					1		
2	Advertise thru NTP - CSCC	0	100	08/11/97A	12/10/97A	1.							
	Construction - CSCC Seg 1 -	297	32	12/11/97A	09/01/99	1				San Street Street Street	1		and the second s
8	Closeout/Startup - CSCC Seg 1	42	0	09/02/99	11/01/99	14							
ĝ.	5332.6182 CSCC Seg 2 - 12'	Tunnel	1-5 to	Offi 58		13111							
	CSCC Seg 2 - 12' Tunnel I-5 to	487*	32	07/28/97A	06/05/00	1.	and the state of t						
4	Advertise thru NTP - CSCC	445	100	0//28/9/A	12/02/97A	8	1 -1 -1	1 10 K 1					
2	Closeout/Startup - CSCC Seg 2 -	445	30	04/06/00	06/05/00	$\hat{K} = i$		6 0 C				1 2	
10.12	5222 6192 CCCC Con 24 7	24 Cand	110 0	25 to LE	00100/00	T'	1 - 1 - 2	1 1			9		
	5332.6183-CSSC Seg 3A - 7.	2 CONU	11, 2.	07/01/064	11/22/00	35		1 - 0 - 0 - 1	Le la			· · · · ·	
1	Couc seg sA - 12 Conduit	000	40	UNUTSOA	11/22/00		1		1	f	4		
201	ect Start 07/01/87		E	rty Bar MS	TR			1			Sheet	7 of 50	1
rol	ect Finish 12/01/12	-	Pre-	grom Bar				City of Portland -	BES				1
Data	Data 06/30/98	-	Cr	itical Activity			C	tal Improvement	Drogram				Chr. \
Run	Date 07/24/98			1.000			Capi	tai improvement i	rogram				1 En
							Qu	arterly Report Sci	hedule			1	
	O Primavera Systems, Inc.						1.1	and the second sec	1 1 2 5 6 A 3 M				

	Activity	Rom	%	Farly	Farly	1.1.1			and the second second			
	Description	Dur	/0	Start	Elaleh	FY97	FY98	FY99	FY00	FY01	FY02	FY03 FY
ā.	Description	07	0	07/01/064	10/20/08	MIAIMIJ	JIAISIONDIJIFIMAMIJ	JAISIONDIJIFIMAMIJ	JIA SIONDIJIF MAM	JIAISIQINIDIJIEIMIAIM	IJ J AISIOINIDI JIEIMIAIMI	J JIAISIOINIDI JIFIMIAIMI J JIF
81	Advertise thru NTP - CSCC	60	0	11/02/98	01/29/99	11	1					11
2	Construction - CSCC Seg 3A -	437	Ő	02/01/99	10/20/00	8.1						
8	Closeout/Startup - CSCC Seg	22	0	10/23/00	11/22/00	Ľ		+				
3	5332.6184 CSCC Seg 4 - La	ndscapi	ng Ar	gyle & Col	u	m	1. 11 March 1. 11	the strength of the				
81	CSCC Seg 4 - Landscaping	864*	37	07/01/96A	12/03/01							
81	Design - CSCC Seg 4 -	379	0	07/01/96A	12/30/99							
	Advertise thru NTP - CSCC	42	0	01/03/00	03/02/00	1000		L AL C				
	Construction - CSCC Seg 4 -	399	0	03/03/00	09/28/01	1						
	Closeout/Startup - CSCC Seg 4	44	0	10/01/01	12/03/01	1						
	5332.6185-CSCC Seg 5 - U	tillty Rel	ocatio	n		11-	the second second	1				
91	CSCC Seg 5, Utility Relocation	0.	100	03/17/97A	06/30/98A			0.00	1 T			
5	Advertise thru NTP - CSCC	0	100	03/17/97A	07/22/97A	-						
	Clossout/Startup - CSCC Seg 5,	0	100	02/05/984	06/30/984	à.						the second states
1	5222 6186 CSCC Soc 6 1.5	Condul	+ Oda	Control	UUIUUIUA			· · · · · · · · · · · · · · · · · · ·				
1	SSS2.0100-CSCC Seg 0 - 1-5	252*	1000	11/01/00	10/30/00	S	1. 1. 1. 1.		- int			
	Advertise thru NTP - CSCC	60	0	11/01/99*	01/28/00	200		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
5	Construction - CSCC Seg 6 -	127	ŏ	01/31/00	07/28/00	2	1 X X X	0.000				
	Closeout/Startup - CSCC Seg 6	65	0	07/31/00	10/30/00	5		1.5				
10	5332.6203-CSCC Seg 3B - C	Construc	t Stat	lon 235		3.00			I T T			
1	CSCC Seg 3B - Construct	606*	45	07/01/96A	11/22/00					· · · ·		
81	Design - CSCC Seg 3B -	70	15	07/01/96A	10/07/98							1
11	Advertise thru NTP - CSCC	165	0	10/08/98	06/04/99	÷				*		8
11	Construction - CSCC Seg 3B -	352	0	06/07/99	10/25/00	14 miles					-	
11	Closeout/Startup - CSCC Seg	19	0	10/26/00	11/22/00							
1,	5332.6224 - ColSICCF Owne	er Contr.	Insu	r. Program						(*) (*)		
	OCIP - Columbia Slough	485	34	07/01/97A	06/01/00				1		(Q	
91	OCIP - Colombia Slough	405		0//01/9/A	06/01/00							
1.	5332.6231 - CSCC РЕМ Нер	lacemer	11 #1	07/40/074	10/1074						2	
<u> 1</u>	CSCC - PFM Replacement #1	0	100	07/18/974	09/02/97A	10.00		100 COL 100			0	
1	Closeout/Startup - PEM	0	100	09/03/97A	12/16/97A	1.					1.1	1
1	5222 6222 - CSCC PEM Ben	lecomer	1 #2	00,00,011	12100111	-				-11		
1	CSCC - PEM Benlacement #1	0*	100	08/06/97A	12/16/97A	11						
81	Construction - PFM	0	100	08/06/97A	09/12/97A	1.1		<				1
	Closeout/Startup - PFM	0	100	09/15/97A	12/16/97A							
1	5332.6340 DS CSCC-1 Haul	ina	-		and the second		100 Percent 100 Percent	10 10 -	1.1		-	
11	CSCC - 1 Hauling	148*	40	02/09/98A	02/01/99	1 A	and the second second					
	Construction - CSCC - 1	107	49	06/08/98A	12/01/98	S	A				-	
	Closeout/Startup - CSCC - 1	41	0	12/02/98	02/01/99	-	1		and the second sec		and the second	
	5332.6341 DS CSCC-2 Haul	ing					= -0 = i - [3])) î	1 ····	1 · · · · · · · · · · · · · · · · · · ·		
11	CSCC - 2 Hauling	223*	30	02/17/98A	05/18/99	S						
	Advertise thru NTP- Hauling	54	0	02/17/98A	09/15/98	1	0 3 1					
8	Construction - CSCC - 2	158	0	09/16/98	05/03/99	Se				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
1 6	Closeout/Startup - CSCC - 2	11	Dere	05/04/99	05/18/99	-		U-				
а,	5332.6359 DS CSCC2 Video	Taping	Pret.	xisting Col	10					10 III III		
31	CSCC - 2 Videotaping	223	100	04/01/98A	05/18/99			100 100 - 910 - 900		15 15 15		1
2	Construction - CSCC - 2	212	12	05/18/98A	05/03/99			· · · · · ·		1		
8	Closeout/Startup - CSCC - 2	11	0	05/04/99	05/18/99							
1	5332,6379 DS CSCC1 Video	tapina			1.112.11	ić –	1000				1.0	
题.1	DS CSCC - 1 Videotaping	349"	17	03/24/98A	11/16/99	1	T Internet	· · · · · · · · · · · · · · · · · · ·		•	T.	
1		9.10					· · · · · · · · · · · · · · · · · · ·					
Toje	ct Start 97/91/87		E	rty Bar MS	TR				122.	5	heet 8 of 50	<
Toje	ct Finish 12/01/12		Pr-	ogrum Bar				City of Portland -	BES			
Inta	Date 06/30/98		Cr	tical Activity			Cani	ital Improvement	Program			15
tun l	Date 07/24/98			10.01			Cap	contanle Demant C	hadala			
	O Primavera Systems, Inc.						Qi	larterly Report Sc	inedule			

	Activity Description	Rem Dur	%	Early Start	Early Finish	FY97 MAM	FY98 J J AISIOINID J FIMAIMIJ	FY99 LIAISIOINIDIJIEMIAIMIJ	FY00	FY01	JASONI	Y02 DIJIFIMIAIMIJ		03 JEMAMJ	EY
10122200	Advertise thru NTP- DS CSCC Construction - DS CSCC - 1 Closeout/Startup - DS CSCC -	- 0 297 52	100 0 0	03/24/98A 04/28/98A 09/02/99	04/27/98A 09/01/99 11/16/99	1						-			4
	ASFO, Permit, and Annual	Report I	Dates			1977	1.	10 10 ×	A	100 200	1				5
L	Columbia Basin Non-ASFO	0	0	SCORE COM	06/30/03*									1	-
	5380(P) Sellwood Bsn Local	l Sep.	is in	国家的 有些	a. Satue Super-	1	5 5 5			1		0.000		· ī	
Sector.	5380(P) Sellwood Basin Lo	cal Sepa	ration	10/01/064	00/20/00	1.1.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1						
100	Design FY98 - Sellwood Basin	548	45	10/01/96A	08/30/00				1						
1000	5380.5930-Sellwood Sewer	Unlt3						a	8 - 6 - 9 -	1		1			-
Plotad	Sellwood Sewer Unit3 Overall	328*	56	10/30/96A	10/15/99					1					
	Sellwood Sewer Unit3 Design	51	62	10/30/96A 11/02/98	10/30/98		1 A A A			1 2	1.1.1	1. 1. 1		-	
1112	Sellwood Sewer Unit3	146	ŏ	01/19/99	08/13/99	50 C	m 10 m				1 1	1.1.1		-	
1000	Sellwood Sewer Unit3	44	0	08/16/99	10/15/99		1 1 2 1		- Artes		0.041	0	-		-
10.00	5380.6120 Sellwood Basin	Local Se	prn P	00/28/08	06/20/01			1	1 10 N. O						
10100	Predesign - Sellwd Bsn Lcl	101	ő	09/28/98*	02/23/99	0	A DOMESTIC			i i contra di Co	1 3 3		1.1		
類	Design - Sellwd Bsn Lcl Sprn	86	0	02/24/99	06/24/99	4			<u></u>	1	1 2 1			1	
ALC: N	Advertise thru NTP - Sellwd	98	0	06/25/99	11/12/99	R.	B III + I	4 9 4 7		1. · · · · · · · · · · · · · · · · · · ·	1 1				
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5524	Sellwd Basin Local Separation	362*	0	07/01/99	12/06/00	12									
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Balch Pump Station 1.713* 0 07/01/99 04/17/06	
Predesign-Balch Pump Station 151 0 07/01/99* 02/07/00	
Sheet 11 of 50	
Project Start 07/01/87 Early Bar City of Portland - BES	-
Data Date 06/30/98 Critical Activity	.)
Ran Date 07/24/98 Capital Improvement Program	
Quarterly Report Schedule	≈

	Activity	Rem	%	Early	Early	FY.97	FY.98	FY99	FY00	FY01	FY.02	FY03 [E)
	Description	Dur		Start	Finish	MAMJ	JASONDJFMAMJ	JASONDJEMAMJ	JASONDJEMAMJ	JASONDJFMAMJ	JIAISIONDI JIFIMAM.	JASONDJFMAMJJ
in the second	Advertise thru NTP - Balch Construction - Balch Pump	353 24 442	000	02/08/00 07/02/01 08/06/01	06/29/01 08/03/01 05/05/03					1	7	
20	5509(P) Ankeny Pump Stat	ion Upg	rade	动作生	100 100 100 100 100 100 100 100 100 100			A				
ſ	5509(P) Ankeny Pump Stat	ion lina	ade	and set of the				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			<i>i</i>	
÷.	Ankeny Pump Station	892*	0	01/03/00	07/14/03			÷				11
5	Design-Ankeny Pump Station	273	0	01/03/00*	01/31/01		1 I I I	5.5				1
3	Adverise thru NTP - Ankeny	105	0	02/01/01	06/29/01	10.11		1 4 4 A				
	Construction - Ankeny Pump	484	0	07/02/01	05/29/03	1.0	and the second se	-1 - 1				<u>_</u>
-176	5510(P) Ankeny/Balch Con:	solidatio	n Cor	duit	07/14/03			1 1	· · · · · ·			1
T	5510(P) Ankeny/Balch Con	solidatio	n Cor	ndult	· · · · · · · · · · · · · · · · · · ·	1	0 0	1 5 7				1
	Ankeny/Balch Consolidation	883*	0	01/03/00	06/30/03	1	1 -	a car				
	Design-Ankeny/Balch	273	0	01/03/00*	01/31/01	00	1	- C - C			1 1	
	Advertise - NTP-Ankeny/Balch	105	0	02/01/01	06/29/01			0 X				
210	Construction - Ankeny/Balch	483	0	07/02/01	05/28/03		· · · ·					Ľ
	Closeout/St - Ankeny/Baich	22	1	05/29/03	06/30/03					i	1	
	5511(P) Woods/Sheridan/M	ill Cons	01. Co	nduit	. 11. Bb 2 .			1 S S S S S S S S S S S S S S S S S S S		· · · · ·		
	5511(P) Woods/Sher/Mill Co	onsolida	tion C	condult				1 C C			- fer	
1	Woods/Sheridan/Mill Conduit	833	0	01/03/00	04/18/03							1 1 2
g	Design - Woods/Sheridan/Mill	251	0	07/03/00	06/29/01	1.1	1	ē 6	1		1.8.00	
14	Advertise thru NTP -	44	ŏ	07/02/01	08/31/01	8	10 IO					
8	Construction -	361	0	09/03/01	02/06/03	10	0.000					•
8	Closeout/Startup -	65	0	01/17/03	04/18/03			0 0 1	- C		4-54	
P	5512(P) Willamette River W	WWTF P	hase	1 報道	一些開始的	1.1		0 0 0				
N.C.	5512(P) Willamette WWTF F	Phase 1				8						10 10 10 10 10 10 10 10 10 10 10 10 10 1
	Willamette WWTP	1,984"	0	07/01/99	05/14/07	1 Mar 1					A	1
1222	Design-Willamette WWTP	504	0	07/01/99*	06/29/01	3.00		1 4 4 7 7				1.0
「古泉	Advertise thru NTP - Willamette	674	0	07/02/01	10/09/01			(()	1	4		the second se
and the	Construction - Willamette	UNITE D		10/10/01	00/10/04	1		1				
靜	5513(P) willamette River v	V WY IF F	nase	Caracter filler	C. Control of the start of the	1		· •	1.			
2-2-2	5513(P) Willamette WWIFF	1 017	0	07/01/02	00/11/00							1. H. I
2552	Predesign - Willamette WWTP	257	0	07/01/02	07/03/03	1000 P				Y	10 million 10 million	
儋	5514(P) Ankeny Force Main		2 Å.	La cale de	- Antiber							
ſ	5514(P) Ankeny Force Main	Contraction of the		Cigliberry C.	and the second second			the second se	1 S S S S			
ų.	Ankeny Force Main	1.018*	0	07/03/00	07/14/04						the state of the second	
8	Design-Ankeny Force Main	251	Ō	07/03/00*	06/29/01	110						
2	Advertise thru NTP - Ankeny	177	0	07/02/01	03/15/02	2.00	Y 1	1 1 N	The second second			
たち	Construction - Ankeny Force	559	0	03/18/02	05/28/04					- 1		T
r	SSIS(P) willamette wwiIF	Outian	Contra (1982)		Prostant date to	1.00		÷				1
	5515(P) Willamette WWIF C	1 206*	0	07/02/00	04/12/05			- (()				
1	Design - Willamette Outfall	251	0	07/03/00*	06/29/01	-						
4	Advertise thru NTP	160	Ő	07/02/01	02/20/02	1.1						and the second sec
	Construction - Willamette	711	0	02/21/02	12/10/04						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1000	5523(P) California Consol.	Conduit		Tive the			X X	1-2-2-2-1	- 10			1
R. I.L.	5523(P) California Consolio	ation Co	ondul	in the second			1	i i		21	Y	10 M 10 M
1	California Basin Consolidation	678*	0	11/22/99	07/31/02	1	Y					7
-			10	the Bare M	STR		••••••••••	and the second		Sheet	12 of 50	-
Proj	ect Start 0//01/8/		Pr	ogress Bar				City of Portland -	BES			5
Date	Date 06/30/98		C	itical Activity			C	tal Immunit	Ducanom			Cr.)
Run	Date 07/24/98						Cap	ital improvement	rrogram			JE .

Quarterly Report Schedule

O Primavera Systems, Inc.

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	Activity Description	Rem Dur	%	Early Start	Early Finish	FY97	FY98	HAISIOND	(99	FY00		FY01			
NEWSTON,	Predesign-California Basin Design-California Basin Advrt-NTP - California Basin Construction - California Basin Closeout/Startun - California	154 212 58 232 22	000000	11/22/99* 07/03/00 05/07/01 07/30/01 07/01/02	06/30/00 05/04/01 07/27/01 06/28/02 07/31/02	- THE STREET		, INICIONAL							
100	5604(P) Downspout MWES	B Grant		CHICKLE .	- ALT	9	1		-				1		
T	5604(P) Downspout MWFB	Grant	- Leathar	PURISONE			A	11/2 2							
Ť.	Downspout MWEB Grant	0*	100	01/03/95A	04/30/98A	-		1 Q - 4	0.0						
	Downspout MWEB Grant	0	100	01/03/95A	04/30/98A						-				
E	5612(P) Downspout DISC G	rant			ALC: NOTE: I		1	1-2-2	1	P-205-26					
2	5612(P) Downspout Disc Gr	rant						10.000		1.12					
100	Summary 5612 - Downspout	128*	87	01/03/95A	12/31/98				1.12						
2	Downspout Disc Grant	128	86	01/03/95A	12/31/98	16. T	11 11 11 11								
4	5612 5615-Discon Arbor Gra	ant	0		12/31/30	1.2.2			1						
	Discon Arbor Grant	128"	87	01/03/95A	12/31/98	1	a a								
1000	Discon Arbor Grant	128	86	01/03/95A	12/31/98				5.0 m				1.1		and the second s
	5612.5616-Discon Woodlaw	n Grant	15.3	a second	- 1										
1	Discon Woodlawn Grant	128*	87	01/03/95A	12/31/98				1				1		
1	Discon woodlawn Grant	128	80	01/03/95A	12/31/98	1	· · ·	+							
	Discon Concorda Grant	128*	87	01/03/95A	12/31/98	1		· · · · · · · · ·	10.00						
	Discon Concorda Grant	128	86	01/03/95A	12/31/98					10		r.			
200	5612.5618-Discon Vernon G	irant					9 U 11	24							
	Discon Vernon Grant	128*	87	01/03/95A	12/31/98								1.1.1		-
11	Discon Vernon Grant	128	86	01/03/95A	12/31/98										
	5612.5619-Discon Alameda	Grant	07	01/02/05 4	10/21/09	. •									is at
	Discon Alameda Grant	128	86	01/03/95A	12/31/98		_		1918.94						1. 1. 2 ⁻¹
2	5612.5620-Discon Overlook	Grant					x - x		-00			-			
5	Discon Overlook Grant	128*	87	01/03/95A	12/31/98								1.1	· · · · · · · · · · · · · · · · · · ·	
	Discon Overlook Grant	128	86	01/03/95A	12/31/98				in the second	1 month	-				
	5612.5658-Discon Kenton G	irant			10/01/00	18.5	a a a		0.0			1	1	C 20 2	
3	Discon Kenton Grant	128	85	08/01/95A	12/31/98					· · · · · · · · · · · · · · · · · · ·	10.00				
	5612 5743-Discon Portsmol	ith Gran	at of	00/01/00/1	1201130		a) ii		W		-			1	
12	Discon Portsmouth Grant	128*	87	01/03/95A	12/31/98		1 1 1				1.1.1.1.1	0			
11120	Discon Portsmouth Grant	128	74	01/03/95A	12/31/98						1.1				and the first state
1000	5612.5744-Discon Universit	y Park G	arant			1			1 G		1111		1.11.1		
200	Discon University Park Grant	128*	87	01/03/95A	12/31/98				1	-				t - 1	
3	Discon University Park Grant	120	/4	01/03/95A	12/31/90	1	a				-				
3	Discon Beaumont - Wilshire	128"	82	03/01/96A	12/31/98	-	1	1							100 A.
3	Discon Beaumont - Wilshire	128	75	03/01/96A	12/31/98										
	5612.5816-King Downspout	Grant				8. m	1 1 1 I		100				1		
1	King Downspout Discon Grant	128*	82	03/01/96A	12/31/98				(
1	King Downspout Discon Grant	128	75	03/01/96A	12/31/98	-		1							
2	5612.5817-Humbolt Discon	Grant	00	02/01/064	12/21/09		1 1 1	-							
1	Humbolt Downspout Discon	128	75	03/01/96A	12/31/98					- 0	100			· · · ·	
												-			
		11	1.0	MS MS	TR	-1-						Shee	13 of 50		~
Proj	ect Start 07/01/87		Pr	ogress Bar				City of Po	ortland -	BES					5
Data	Date 06/36/98		Cr	itical Activity			Con	ital Impre	ovement 1	Program					an)
Run	Date 07/24/98						Cap	ital impro	ovement)	i logram					- And
	O Primavera Systems, Inc.						Q	uarterly F	ceport Sc	hedule			- 3.4		

	Activity Description	Rem Dur	%	Early Start	Early Finish	FY97		FY98			LIASON		JASO		LIASON	FY02	FY		ĪÐ
	5612.5818-Pledmont Downs	spout Gr	ant						l'interest			is is it amin while						en rong subits	T
203	Piedmont Downspout Discon	128*	82	03/01/96A	12/31/98								1.11		1.1	· · ·			
11110	Piedmont Downspout Discon	128	75	03/01/96A	12/31/98					-			1 32	-		1			-
102.00	5612.5819-Sabin Downspor	it Grant			10.00	1	1221		1. A	1. 10		1.0		Ĭ		i			
2	Sabin Downspout Discon Grant	128*	82	03/01/96A	12/31/98			1					1						
	Sabin Downspout Discon Grant	128	/5	03/01/96A	12/31/98		~	4 .		di te	-		-	-	-	-			+
	Broject Summary - St Johns A	138*	72	02/05/974	01/15/99											ĥ.	1		
J.	Design- St Johns A Sep Phase	0	100	02/05/97A	11/03/97A				1.00										
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COMBINED SEWER OVERFLOW PROGRAM

ANNUAL PROGRESS REPORT TO DEQ

ASFO WQ-NWR-91-75 FISCAL YEAR 98-99 JUNE 30, 1999





ENVIRONMENTAL SERVICES CITY OF PORTLAND CLEAN RIVER WORKS

COMBINED SEWER OVERFLOW PROGRAM

ANNUAL PROGRESS REPORT TO DEQ

ASFO WQ-NWR-91-75 FISCAL YEAR 98-99 JUNE 30, 1999





ENVIRONMENTAL SERVICES CITY OF PORTLAND CLEAN RIVER WORKS
COMBINED SEWER OVERFLOW PROGRAM

ANNUAL PROGRESS REPORT TO DEQ

ASFO WQ-NWR-91-75 FISCAL YEAR 98-99 JUNE 30, 1999





ENVIRONMENTAL SERVICES CITY OF PORTLAND CLEAN RIVER WORKS





1211 SW Fifth Avenue, Room 800, Portland, Oregon 97204-3713

(503) 823-7740, FAX (503) 823-6995

Dean Marriott, Director

August 30, 1999

Oregon Department of Environmental Quality Water Quality Division 2020 SW Fourth Avenue, Suite 400 Portland, Oregon 97201-4987

Attention: Richard Santner

SUBJECT: Amended Stipulation and Final Order (ASFO) No. WQ-NWR-91-75 City of Portland Combined Sewer Overflow (CSO) Program Annual Progress Report

Enclosed please find two copies of the subject report submitted per the requirements of the subject ASFO. The report covers Fiscal Year 98-99, ending June 30, 1999.

This submittal is responsive to Section 12.a. (11) of the ASFO, which states:

By no later than September 1 of each year that this Amended Order is in effect, the Respondent shall submit to the Department and to the Commission for review an annual progress report on efforts to eliminate untreated CSO discharges, subject to the storm return frequencies specified in Section 12.a of this Amended Order. These annual reports shall include at a minimum work completed in the previous fiscal year and the work scheduled to be completed in the current fiscal year.

If you have questions regarding this year's report, please contact me (823-7115) or Lester Lee (823-7186).

Sincerely yours,

Becky Kreag Planning Group Manager

Enclosure

c: Dean Marriott, BES/Director Gary Irwin, BES/Planning Group/WRPP Project Manager Lester Lee, BES/Planning Group/IWP Program Manager Lee Klinger, BES/Manager of CIP Management Group Joan Saroka, BES/Manager of Communications Group

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CITY OF PORTLAND COMBINED SEWER OVERFLOW PROGRAM ANNUAL PROGRESS REPORT FISCAL YEAR 98-99 (ASFO WQ-NWR-91-75)

CITY OF PORTLAND BUREAU OF ENVIRONMENTAL SERVICES

JUNE 30, 1999

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Appendices

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A Listing and Current Schedule - Combined Sewer Overflow Program Projects – 12 City of Portland Bureau of Environmental Services – Capital Improvement Program

I. Summary

The following summarizes the City of Portland's efforts to minimize and/or eliminate Combined Sewer Overflow (CSO) discharges to the Columbia Slough and Willamette River during the past fiscal year:

- Continued work on the Willamette River Basin CSO Predesign Project (WRPP), which will
 refine the CSO control alternatives identified in the current CSO Management Plan for the
 Willamette River Basin component of the CSO Control Plan.
- Continued to implement the Cornerstone Projects to reduce stormwater inflow into the combined sewer system.
- Completed the final design on Columbia Slough Consolidation Conduit (CSCC) Segment 3A and the Columbia Boulevard Wet Weather Treatment Facilities (CBWWTF) Outfall, and started the design of the CBWWTF Effluent Pump Station.
- Continued construction of Segments 1, 2, and 5 of the CSCC, the CBWWTF Dry Weather Primaries, and the CBWWTF Chlorination System Improvements, and started construction of Segment 3A of the CSCC, the CBWWTF Dechlorination System, and the CBWWTF Outfall.
- Continued CSO operation and maintenance activities to reduce the environmental impact of current CSO discharges.
- Continued implementation of a comprehensive public information/public education/public involvement program.

The program to control CSOs is on schedule and within the projected budget. The current program budget is \$700 million (January 1993 dollars) with expenditures to date of \$181.7 million (actual dollars) and an estimated cost at completion of \$683.3 million (January 1993 dollars).

The following summarizes the planned efforts to minimize and/or eliminate CSO discharges to the Columbia Slough and Willamette River during the current fiscal year:

- Perform the fourth year of the WRPP. (This work involves stakeholder and technical process
 activities designed to re-evaluate and refine the current Willamette River Basin CSO Control
 Plan in terms of costs and benefits to City ratepayers.) Task 9 (the predesign of the selected
 control plan) will be the focus of the work during the year.
- Incorporate the WRPP and the City's Integrated Watershed Plan in the Public Facilities Plan (PFP) to create a single comprehensive planning document to be called the Portland Clean River Plan.

- Design and/or construct additional CSO Cornerstone Projects (stormwater infiltration drainage sumps, downspout disconnection, stream diversions, and local sewer separation).
- Continue to construct the major CSO control facilities associated with the Columbia Slough Component of the CSO Control Plan.
- Begin the design of some of the CSO control facilities associated with the Willamette River Basin components of the CSO Control Plan.
- Continue current CSO operation and maintenance activities to reduce the environmental impact of current CSO discharges.
- Continued implementation of the public information/education/involvement programs.

II. Introduction

The City of Portland Bureau of Environmental Services (BES) manages the planning, design, construction, and implementation (startup) of all capital projects by means of a Capital Improvement Program (CIP) Management Group. The CIP Management Group programs and tracks capital improvement projects in the six categories identified in the following listing:

Category	Projects Listed at End of FY 98-99	Projects Open During FY98-99
Combined Sewer Overflow	256	91
Maintenance and Reliability	179	93
Mid-County Sewer	30	9
Sewage Treatment	151	82
Surface Water Management	64	30
Systems Development	113	52
Total	793	357

At the end of FY 98-99 there were 793 individual projects listed in the CIP, with 357 projects listed as "open projects" during the year. "Open projects" are all active projects that were not closed prior to the beginning of FY 98-99.

The 256 CSO projects (see Appendix A for those in the current five year CIP) represent the CSO Control Plan as it currently exists within the City of Portland. This report focuses on the accomplishments on those projects. It should be noted, however, that there are projects in other CIP categories that have or will have a positive impact on the control and/or handling of CSO. The benefit and status of these projects is not covered in this report.

This report is submitted to the Oregon Department of Environmental Quality (DEQ) pursuant to Amended Stipulation and Final Order (ASFO) No. WQ-NWR-91-75 issued to the City of

Portland (City) by DEQ on August 11, 1994. As stipulated in the ASFO, this report summarizes the City's efforts to eliminate unauthorized CSO to the Columbia Slough and the Willamette River during the past fiscal year and identifies the work planned under the CSO Program for the current fiscal year.

The ASFO requires that the report be submitted to DEQ by September 1 of each year that the ASFO remains in effect.

III. Background

At the time the original Combined Sewer Overflow Stipulation and Final Order (SFO) was issued in 1991, approximately 60% of Portland's population was being served by a combined sewer system that collected both municipal wastewater (residential, commercial, and industrial sewage) and municipal stormwater (roof runoff; street and paved surface runoff; and some urban stream runoff). Currently, when there is a storm event in the City, runoff typically exceeds the carrying capacity of the combined sewer system causing overflows to both the Columbia Slough and the Willamette River through up to 52 individual outfalls.

These overflows are in violation of Federal clean water regulations and have been deemed a significant source of water pollution in both the Columbia Slough and the Willamette River. Before control work began in 1990, the City's CSO outfalls discharged on average approximately 6.0 billion gallons of combined sewage annually. Approximately 20% of the content of this annual overflow is projected to be untreated municipal wastewater.

As of June 30, 1999, due to significant interceptor system improvements, completion of numerous diversion structure modification projects, and the completion of many of the Cornerstone Projects, approximately 3.0 billion gallons/year of overflow has been eliminated based on current model projections.

The current ASFO is essentially a 20-year compliance schedule to reduce overflow from the City's combined sewer system. It includes the following major milestones:

- By December 1, 2000, the City must eliminate all CSO discharges to the Columbia Slough that violate provisions of the ASFO.
- By December 1, 2001, the City must eliminate all CSO discharges that violate provisions of the ASFO at 20 of the CSO outfalls (including the Columbia Slough outfalls) consistent with the Facilities Plan approved by the Environmental Quality Commission (EQC).
- By December 1, 2006, the City must eliminate all CSO discharges that violate provisions of the ASFO at 16 of the remaining CSO outfalls consistent with the Facilities Plan approved by the EQC.
- By December 1, 2011, the City must eliminate all remaining CSO discharges that violate provisions of the ASFO consistent with the Facilities Plan approved by the EQC.

Also included in the ASFO are a number of intermediate milestones, including the submittal of annual progress reports to DEQ by September 1 of each year that the ASFO is in effect. The reports are to summarize the work performed during the past fiscal year and identify the work planned for the current fiscal year to eliminate discharges that violate the provisions of the ASFO.

IV. Past Fiscal Year Activities

This section summarizes the CSO abatement efforts for the period beginning July 1, 1998, and ending June 30, 1999. The section is divided into the following subsections:

ASFO Milestones Achieved Program Planning Accomplished CSO Control Projects Planned, Designed, and/or Constructed CSO Operation and Maintenance Activities Public Involvement Activities

A. ASFO Milestones Achieved

There were no ASFO milestones scheduled for completion during the fiscal year. All 35 scheduled SFO/ASFO milestones to date have been met on time since the signing of the initial SFO.

B. Program Planning Accomplished

Program planning continues to be an important aspect of the work being performed under the CSO Program. Planning is important to insure that the technical requirements of the ASFO are met within the schedule and budget constraints of the CSO Program. Important planning activities accomplished during the fiscal year were as follows:

- Internal meetings and meetings with DEQ related to the WRPP and the City's Integrated Watershed Planning.
- Internal meetings and meetings with the Willamette River Stakeholders Task Force (WRSTF) to develop and provide technical and nontechnical information related to the progress on the WRPP and the Integrated Watershed Planning. (The WRSTF, which includes neighborhood, business, industry, civic, environmental, city, and regulatory representatives, has been providing guidance on the WRPP and Integrated Watershed Planning. The WRSTF will be making recommendations to the Portland City Council and the Bureau of Environmental Services on how to best deal with the control of CSO and other environmental issues.) Six formal meetings were held during the fiscal year.
- Continued the WRPP, which will refine the CSO control alternatives identified in the current CSO Management Plan and perform the predesign of the recommended projects. The

planning is essentially complete, with the predesign to be completed by December 2000. The results of the WRPP will be integrated into the City's Clean River Program.

An important outcome of the WRPP work was the identification and evaluation of the final CSO control alternatives for Willamette River Basin CSO. The result was the selection of the recommended plan at a workshop held on June 16, 1999.

C. CSO Control Projects Planned, Designed and/or Constructed

As noted in Section II, 91 of the 256 projects in the City's CIP directly related to the CSO Program were active during the fiscal year. To be "active" a project must have been in at least one of the following project phases:

Predesign Design Advertise/Bid Construction Close Out/Startup

A review of the schedules in the Appendix A information will provide a visual indication of the status of each of the 91 projects. The following is a narrative summary for some of the major projects and project groups:

Downspout Disconnections

During FY 98-99, the City continued with the voluntary program in most of the Columbia Slough Watershed; completed work at 95 % of the homes involved in the mandatory programs in St. Johns A, Oswego, and Oregonian basins; and completed work at 75 % of the homes involved in the mandatory program in the St. Johns B basin. All told, the City disconnected 5,256 downspouts at 2,319 residences during the fiscal year. As a result, an estimated 61 million additional gallons per year of stormwater has been removed from the combined sewer system. From the beginning of the Downspout Disconnection Program through June 30, 1999, downspouts have been disconnected at over 7,830 homes removing an estimated 132 million gallons per year of stormwater from the combined sewer system.

Stormwater Infiltration Sumps

Continued to construct sumps in the Willamette River Watershed, with a total of 38 sumps installed during the fiscal year. All of the sumps were installed in the various Taggart basins.

Tanner Creek Stream Separation

Continued to work on the various components (Phases 1 through 5)) of the Tanner Creek stream separation work. Design work was accomplished on Phases 2 and 3, and construction was completed on the Phase 1, Unit 2 component.

Columbia Slough Consolidation Conduit (CSCC)

The CSCC has seven components of design work (Segments 1, 2, 3A, 3B, 4, 5, & 6). Construction on Segment 5 was completed last fiscal year. Work was performed on the remaining six segments during the past fiscal year. Design work was performed on Segments 3A, 3B, & 4; Segments 3A was bid; and construction took place on Segments 1, 2, and 3A.

Columbia Boulevard Wet Weather Treatment Facilities (CBWWTF)

The CBWWTF has one major design package with seven individual construction packages (Flowmeter Replacement, New Primary Clarifiers, Modification to Wet Weather Primaries, Effluent Pump Station Improvements, CBWTP Chlorination System Improvements, Dechlorination Facility, and Environmental Enhancements). Work was performed on four of the construction packages during the past fiscal year. The Flowmeter Replacement package was completed, and bidding and/or construction was performed on the New Primary Clarifiers, the CBWTP Chlorination System Improvements, and the Dechlorination Facility.

CBWWTF Influent Pump Station

The CBWWTF Influent Pump Station has one design and one construction package. Construction began during the fiscal year.

CBWWTF Outfall

The CBWWTF Outfall has one design package and two construction packages (Outfall and Outfall Clear & Grub). The Clear & Grub construction package was completed during the fiscal year, and construction began on the Outfall package.

Willamette River CSO Predesign Project (WRPP)

The WRPP is a 14 task planning and preliminary design project designed to re-evaluate and refine the current CSO control plan for the Willamette River Basin. The project has the following tasks:

- S1 Stakeholders Task Force Support (85)
- S2 Public Outreach Activities (15)
- S3 Willamette River Basin Activities (50)
- M1 M/W/ESB Support Activities (20)
- T1 CSO Pollutant Characterization (95)
- T2 Regulatory Issues and Permitting (75)
- T3 Water Quality Impact Evaluations (95)
- T4 Green Solutions and Inflow Controls (100)

- T5 Collection System Optimization (80)
- T6 Overflow Treatment Strategy (100)
- T7 Identification of Integrated Control Alternatives (90)
- T8 Evaluation of Integrated Control Alternatives (80)
- T9 Predesign of Selected CSO Control Plan (5)
- T10 Project Management (75)

Work was performed on all tasks during the fiscal year. The values in parenthesis after each task description are the total percent complete at the end of the fiscal year. Overall the project was estimated to be 65 percent complete at the end of the fiscal year based on expenditure of the professional services contract budget.

D. CSO Operation and Maintenance Activities

Continued implementation of operation and maintenance practices that reduced the impact of CSOs on the receiving streams. Although the following represents the citywide effort, the majority of this work was performed within the CSO area:

Sewer Cleaning	163 miles
Catch Basin/Inlet Cleaning	18,043 units cleaned
Drainage Sump Cleaning	932 units cleaned
Street Sweeping	54,653 curb miles
Street Sweeping	54,055 curb miles

E. Public Involvement Activities

Public involvement activities related to the CSO Program continued on both the program and the project level during the fiscal year. The activities included general public information activities, general public education activities, Willamette River activities and events, and Columbia Slough CSO activities and events. The following is a summary of the activities and events in each category:

General Public Information

Public Notification/River Alert Program: The City continues the River Alert program, which began in the summer of 1991. The program includes CSO identification signs. These signs indicate where outfall pipes are located (similar to a NO PARKING sign). It also includes folding signs with the message "WARNING: SEWAGE." The folding signs are opened and closed every time there is an overflow from May 15 to October 15 each year. During the winter months, the signs remain open with the message in view for boaters and other river users.

In 1998-99, the City redesigned and replaced 55 CSO outfall identification signs and 15 folding CSO warning signs at public access points along the Willamette River and Columbia Slough.

The River Alert program also notifies the media (by fax) every time there is an overflow from May 15 to October 15. The Oregonian newspaper publishes an overflow icon on the top of the weather page when overflows occur.

Clean River Works Construction Signage: The City requires contractors to develop and post signage at any sewer system-related construction site with the Clean River Works message to inform the public that the construction is a sewer project designed to keep our rivers and streams clean.

Media Relations: The City uses several techniques to gain media coverage of CSO projects. Media advisories, news releases and media events are used to alert the media about CSO projects. Individual briefings are also held with reporters. The City provides timely, accurate responses to all media requests and keeps files of all newsprint and broadcast media coverage.

The City released 27 media notifications regarding the combined sewer overflow program during the fiscal year. Twelve were related to actual combined sewer overflows during the summer notification period. Other notifications were about Big Pipe construction, the work of the Willamette River Stakeholders Task Force, and general information about the program.

Bill Inserts: The City produces a water/sewer bill insert each year to provide 120,000 residential customers with information about the combined sewer overflow program.

General Public Education

Environmental Education: The City provides free water quality education programs to Portland schools and community groups. A special Combined Sewer Overflow presentation is available for students in grades 6 to 12. Students learn the history of the CSO problem, talk about solutions, and discuss how to pay for improvements. More than 7,000 students were contacted with information about the combined sewer overflow program during the fiscal year.

A plastic model has been developed that physically shows (with the use of water) how overflows actually occur. The Clean River Quest computer game and a computer kiosk are still used by schools and community groups. The kiosk is located at OMSI.

Web Site: The Bureau of Environmental Services has an Internet site with the following address: *www.enviro.ci.portland.or.us*. This site has a section about the combined sewer overflow program that includes specific information about the Columbia Slough, Cornerstone, and Willamette River CSO projects.

In February 1999, the City developed a newsletter on watershed and combined sewer overflow activities, which was mailed to 288,000 Portland households.

Willamette River Activities and Events

The City develops public outreach plans with guidance from citizen task forces and committees. Over the past year, with volunteer support, the bureau developed new programs to help citizens learn more about the importance of protecting Portland's streams and rivers. These hands-on programs focused on getting people to learn more about issues impacting rivers and streams. The activities and events included:

- Wild on the Willamette Walks and Boat Tours
- Neighborhood Association Meetings
- Community Fairs and Events
- Publications

They successfully educated and involved:

- 307 citizens in 18 Willamette River Walks and Boat Tours;
- 551 citizens in 26 neighborhood and business meetings;
- 1,340 people through 10 community fairs, festivals and events;
- 778 people and students in 33 storm drain stenciling events; and
- 33,738 using 8 newsletters and project fact sheets.

In addition, the City printed 10,000 Wild on the Willamette (WOW) newsletters with information on watershed issues and activities.

Volunteer Activities: In addition to the activities listed above, 10 citizen volunteers have been trained to help the City broaden outreach activities. Staff members and volunteers have made contact with over 84,595 people, utilized 6,049 volunteer hours and created 144 different partnerships with environmental, business, and a variety of non-profit community organizations.

Willamette River Stakeholders Task Force (WRSTF): The WRSTF is a 24 member committee developed in 1996 to assist the Bureau with a technical and policy review of the Willamette River portion of the CSO program. The group is scheduled to complete their work by September of 1999. At that time, they will present their recommendations to City Council regarding how the City should move forward to improve water quality and control Willamette River CSOs.

Columbia Slough CSO Activities and Events

Columbia Slough Consolidation Conduit (CSCC): During FY 98-99 the Columbia Slough CSO activities focused on providing the public with information about the construction of CSO related projects. The City distributed a Big Pipe Update newsletter in North Portland and continued to meet with the Conduit Steering Committee. Several newspapers and radio and television stations ran stories about the project. Traffic advisories and construction notices were routinely distributed. Environmental Services staff set up information tables at the Kenton Fair and St. Johns Fair with information about the Big Pipe and other sewer system projects.

CBWWTF Outfall Project: Construction is underway on the CBWWTF Outfall project. During the course of the year, City staff met several times with members of the Class Harbor Neighborhood Association and the Hayden Island Neighborhood Association to keep them informed about the project and to get input about construction issues.

Sewer Separation Projects: Construction began on the North Portland Sewer Separation Project during the summer of 1999. BES issued regular news releases and traffic advisories to keep the public informed of project developments.

CBWTP Citizen Advisory Committee (CAC): The CAC, facilitated by BES staff, continued to meet throughout the year. Members of the CAC served on the Conduit Steering Committee and the Outfall Advisory Committee. To keep the committee well educated and informed, committee members are given a presentation each month on various topics related to the CSO construction projects and the treatment plant. Recent topics included a digital photo and construction methodology presentation on construction of the CSCC.

V. Planned Efforts for Current Fiscal Year

The current fiscal year's efforts covers the period beginning July 1,1999, through June 30, 2000. The work planned for the fiscal year will focus on continued implementation of the Cornerstone Projects throughout the CSO area, the construction/implementation of the control facilities in the Columbia Slough Watershed, the predesign of the control facilities for the Willamette River Basin. The current year's work is divided into the same five subsections used for the previous year's efforts.

A. ASFO Milestones to be Achieved

Except for the submittal of this CSO Progress Report, there are no major ASFO milestones during the current fiscal year.

B. Program Planning to be Accomplished

Program level planning will continue during the current fiscal year. The activities that will directly impact the CSO Program include:

- Continue work on the WRPP to produce a more detailed predesign of the Willamette River Basin CSO control plan. All remaining tasks of the WRPP (see Section IV.C) except Task 9 (Predesign of the Selected CSO Control Plan) are scheduled to be completed during the fiscal year. Task 9 is expected to be more than 70 % complete by the end of the fiscal year.
- Preparation of a Clean River Plan for the City of Portland Willamette Watershed. The purpose of this work is to integrate all the planning and project work that is taking place in the watershed (such as systems development/maintenance, system optimization, CSO control, stormwater management, watershed restoration, Endangered Species Act (ESA) requirements, and flood protection) into a common planning document that can be use to optimize and prioritize the work necessary to best achieve the goal in the watershed. The work accomplished under the WRPP will be "rolled" into the Clean River Plan. The City expects to present it's recommendations and request for changes in the ASFO during the year.

C. CSO Control Projects to be Planned, Designed and/or Constructed

The CSO control projects to be planned, designed and/or constructed during the current fiscal year are defined in the schedule in Appendix A. The work includes the continuation of the inflow reduction projects (including stormwater infiltration sump construction, downspout disconnections, stream diversion projects, and sewer separations) along with major CSO conveyance, storage, and treatment facilities to control the Columbia Slough outfalls. As noted in Subsection B above, the predesign of the CSO control projects for the Willamette River Basin will begin and be carried to approximately 70 % completion. The schedule shows that over 86 CSO projects will be active during the fiscal year.

D. CSO Operation and Maintenance Activities Planned

Continue the implementation of operation and maintenance practices that reduce the impact of CSOs on receiving streams. This Citywide effort will include the following project work:

Sewer Cleaning: Catch Basin/inlet Cleaning: Drainage Sump Cleaning: Street Sweeping: 175 miles18,000 catch basin/inlets1,572 sumps/sedimentation manholes55,890 curb miles

E. Public Involvement Activities Planned

The public information, education, and involvement activities planned for the current year include a continuation of the same types of activities conducted during FY 98-99. Some of the programs include:

- Wild on the Willamette walks and boat tours
- H20 boat tours
- Volunteer recruitment and training
- CSO classroom education program
- Willamette River Stakeholder Task Force
- CSO River Alert signage/notification program (signs will be updated this year)
- Continued promotion and education outreach for the Downspout Disconnection Program.
- CBWTP Citizen Advisory Committee
- CSCC construction notifications
- Tanner Creek construction notifications
- Wild on the Willamette newsletter
- Rivers and Streams newsletter

Vl. Conclusions

- The City is making very good progress and is on schedule towards the target reduction of CSOs as evident by the above list of accomplishments and the work planned for the current year.
- There were no ASFO milestones scheduled during FY 98-99. This means that all of the 35 SFO/ASFO milestones scheduled to be completed through the end of FY 98-99 have been met on time. The City is facing a critical cross road in the next year to determine how to achieve the best long-term benefit for the Willamette River and local tributaries.
- The City conducted substantial operation and maintenance of the CSO collection system during the past fiscal year to reduce the environmental impact of current CSO discharges, and the City plans to continue with this effort during the current fiscal year.
- The public involvement/public outreach activities will continue to expand and improve the
 public's understanding of the City's combined sewers and the impact of CSO discharges on
 water quality in the Columbia Slough and the Willamette River. The City will continue to
 deliver a comprehensive Clean River message through quarterly direct mail newsletters to the
 ratepayers.
- Because of significant interceptor system improvements, completion of numerous diversion structure modification projects, and rapid implementation of the Cornerstone Projects to date, the City has eliminated an estimated 3.0 billion gallons/year of CSO from the Columbia Slough and Willamette River. This represents approximately 52% of the total volume of CSO that must be controlled under the conditions of the ASFO.
- The City will be integrating the Willamette River CSO Control Plan with other planning in the City's Willamette Watershed into an integrated Clean River Plan during FY 99-00. Control of remaining CSO will require escalating investment of critical interest to the City ratepayers. The City wants to provide assurance that the future investment will provide the best measurable results.

APPENDIX A

LISTING AND CURRENT SCHEDULE

COMBINED SEWER OVERFLOW PROGRAM PROJECTS

CITY OF PORTLAND BUREAU OF ENVIRONMENTAL SERVICES

CAPITAL IMPROVEMENT PROGRAM

Description	Dur	%	Start	Finish	FY97	FY98		FY00	FY01	FY02	FY0	S FY04
Combined Sewer Overflow	Program	m			inito uni v							
5037(P) NW 1100 Ave Se	oaration	1			201			11.2.3.3	3 3 1 1	1 1 1	1 1 1	1
5037(P) NW 110th Sewer 5	Separatio	סח			1	1 1 1	4. 1. 4			1 I I	1 1 1	1
Predesign - NW 110th Ave	0	100	08/03/92A	10/30/98A					1-1-1-1		_(=)	
5037.6241 NW 110th St. P	ump Sta	tion u	pgrade		1				1.5.1	1 1 1		
Linnton PS Improvmnt	210	70	08/01/97A	04/28/00	8 1			a 1 a	1 2 3 3	3 0 3	1.1	
Adver thru NTP - Linnton Pump	o õ	100	01/12/99A	04/30/99A	3	a a a		1		1 1 1	1	
Construction - Linnton Pump	146	22	05/03/99A	01/28/00	1		1 1 1 No. 3 4	1	1.	3. 2. 3.		
5037 6490	64	0	01/31/00	04/28/00	1		1-1-1-				1 1	
Summary	117*	57	11/16/98A	12/15/99	1	3 3 3			1 1 1 1		1 2 1	
Design	0	100	11/16/98A	04/23/99A	4		Annual State			5 5 5		
Construction	44	0	04/26/99A	08/31/99	à.					1 1 1	1 1 1	
Startup/Closeout	22	ŏ	11/15/99	12/15/99	1	1 1 1				4 4 4		a substant of the
5083(P) CSO Sump Progra	m										1 1 1	
5083(P) CSO Drainage Su	mp Prog	ram	1	110.00								
Hammock- CSO Drainage	756*	77	09/29/89A	06/28/02					1 1			
Prepare Report of Columbia	756	0	09/29/89A 07/05/95A	06/28/02								
508X-Willamette Basin 3 S	Sumps		1.12.24		1					1 1 1	1 1 5	
Willamette River Basin Phase	3 71*	95	09/27/93A	10/08/99	1	2 4 2			1 1 1 1	11.1.1	1 1 1	
Prepare Report for Willamette	49	0	07/01/99*	09/09/99	0.7	1 2 4 4		H	- 1 1 1 1	1 1 1	1	
5083.5425-Stark Basin CS	O Sump	Proie	ct. Unit #	5								
Stark Basin Sump #5	388*	76	09/16/94A	01/12/01				in the second second		1 1 1	1 1	
Design & Bid - Stark Sump #5	234	0	01/04/99A	06/02/00	9					1.8.8	1 2 3	
Construction - Stark Basin	43	o	09/12/00	11/09/00	rk.		1 1 1	1 1 1 1		1 1 1	1 1 1	1
Close Out/Startup - Stark Basir	42	0	11/13/00	01/12/01	2	4 9 9	3 3 4	A	(
5083.5427-Stark Basin CS	O Sump	Proje	ct, Unit #7	7	$[0, \pm 1]$	4. <u>1</u> 1	1 1 1 1	1 0 1 0 1		1 11 1	1 2 3	
Design - Stark Basin Sump #7	244	14	09/16/94A 05/03/99A	03/02/01	1	$i = \hat{q} = \hat{q} - \hat{q}$	1			114 8	1 7 1	
Advertise thru NTP - Stark	52	0	06/19/00	08/30/00	1					1 11 3	1 1 1	
Construction - Stark Basin	87	0	08/31/00	01/05/01	3		3 3 3	4 5 4		Stati I	1 1 1	
5083.5494-Taggart Basin	CSO Sun	np #5	01/00/01	03/02/01	1	- + + + +	- 4 - 4 - 9 -	- 0 4 - 0			-11-	
Taggart Basin Sump #5	0*	100	05/08/95A	11/02/98A	1					1 11 1	1. 1	
Closeout/Startup - Taggart	0	100	05/12/98A	11/02/98A	-							
5083.5495-Taggart Basin (185*	np #6	03/15/054	03/24/00	-						1 1	
Design - Taggart Basin Sump	23	0	06/20/95A	08/02/99			4			1 11		-
Advertise thru NTP - Taggart	70	0	08/03/99	11/09/99	1	4 9 0				14 19 11		
Construction - Laggart Basin Closeout/Startup - Taggart	48	0	01/24/00	01/21/00	121	a						
5083.6109 Beech Basin Su	mps Ph	ase I			1	- 2 11 - 11 -					-	1
Beech Basin Phase I	258*	0	03/10/00	03/19/01	1	1 2 2 1				8 H T	1 1 1	1
Predesign - Beech Basin Phase I	€ 30 50	0	03/10/00*	04/20/00	2.1		2 1			i i		
Advertise thru NTP - Beech	44	õ	07/03/00	09/01/00	Ф Ф	1 3 2				1 14 1	1	
Construction - Beech Basin	90	0	09/05/00	01/12/01	Ф	aaa		- 4 a - 4		i ti i	1 1	
Project Start 07/01/87		Ear	ty Bar MS	STR		and the second second			Sheet 1	of 42		
Project Finish 12/01/12		Pro	tical Activity			- C.J	City of Portland	BES				
Run Date 07/22/99						Ca	pital Improvement	Program		1		
1.							Quarterly Report S	chedule				

Activity	Ren	%	Early	Early	
Closeout/Startup - Beer	h Basin 4	4 0	01/15/01	03/19/01	
5083.6110 Beech Ba	sin Sumps F	hase l	1		
Beech Basin Phase II	25	•• C	07/03/00	07/12/01	
Predesign - Beech Bas	n Phase 2	2 0	07/03/00*	08/02/00	
Advertise thru NTP - Be	ech 4	2 0) 11/06/00	01/08/01	
Construction - Beech B	asin 8	8 0	0 01/09/01	05/14/01	
Closeout/Startup - Beer	h Basin 4	1 0	0 05/15/01	07/12/01	
5083.6111 Essex Ba	sin Sumps P	hase I	00/00/00	00/10/01	
Predesign - Essex Basi	Phase 3		03/03/00*	03/19/01	
Design - Essex Basin P	hase I 5	5 0	04/14/00	06/30/00	
Advertise thru NTP - Es	sex 5	6 0	07/03/00	09/20/00	
Closeout/Startup - Essex Bi	sin S X Rasin S		09/21/00	03/19/01	
5083.6112 Essex Ba	sin Sumos P	hase II	1	00/10/01	
Essex Basin Phase II	23	2* 0	07/03/00	06/04/01	
Predesign - Essex Basi	Phase 2	0 0	07/03/00*	07/31/00	
Design - Essex Basin P	hase II 4	5 0	08/01/00	10/03/00	지수는 이번 것 이 것 같아. 이 것 같아. 나누는 것 같아. 이 것 같아. 이 것 같아.
Construction - Essex Ba	sin 8	0 0	12/08/00	04/04/01	
Closeout/Startup - Esse	x Basin 4	2 0	04/05/01	06/04/01	
5083.6113 Stark Ba	in Sumps U	nit 5&6	Phase II		
Stark Basin Unit 5&6 Pl	ase II 253	3° 0	07/01/99	06/30/00	
Design - Stark Basin Ur	it 5&6 6	o o	07/08/99	09/30/99	
Advert thru NTP - Stark	Basin 4	0 0	10/01/99	11/29/99	
Construction - Stark Ba	in Unit 10	0 0	11/30/99	04/21/00	
Closeout/Startup - Start	Basin 4	9 0	04/24/00	06/30/00	
Stark Basin Unit 7 Phas	all 201	m / Ph	07/01/99	04/26/00	
Predesign - Stark Basin	Unit 7	4 0	07/01/99*	07/07/99	
Design - Stark Basin Ur	it 7 6	0 0	07/08/99	09/30/99	
Advertise thru NTP - St	in Unit 10	0 0	02/28/00	02/25/00	
5083 6116 Tannart A	asin Sumns	Init 4	Phase II	04/20/00	
Taggart Basin Unit 4 Ph	ase II (* 100	07/01/97A	06/29/99A	
Design - Taggart Basin	Unit 4	0 100	07/01/98A	01/15/99A	
Advertise thru NTP - Ta	ggart	0 100	01/19/99A	04/09/99A	
Closeout/Startup - Taggart	art	0 100	06/03/99A	06/29/99A	
5083.6119 Taggert E	asin Sumps	Unit 6	Phase II	121 21	
Taggart Basin Unit 6 Ph	ase II C	* 100	03/15/95A	07/08/98A	
Design - Taggart Basin	Jnit 6	0 100	06/20/95A	07/08/98A	
5083.6122 Riverside	Basin Sump	s Unit	1 Phase II	06/20/01	
Predesign - Riverside B	asin 25	0 0	07/03/00*	07/31/00	
Design - Riverside Basi	Unit 1 5	3 0	08/01/00	10/13/00	
Advertise thru NTP - Riv	erside 4	2 0	10/16/00	12/14/00	[[[]
Closeout/Startun - Riverside	side 4	6 0	04/26/01	06/29/01	
5083.6123 Riverside	Basin Sum	s Unit	2 Phase I		
Riverside Basin Unit 1 F	hase II 253	• 0	07/01/99	06/30/00	
Predesign - Riverside B	asin 3	0 0	07/01/99*	08/12/99	
elect Start 87/01/87		Fe	riy Bar MS	STR	Sheet 2 of 42
oject Finish 12/01/12	-	Pr	ogress Bar		City of Portland - BES
ta Data 06/30/91	-	Cr	itical Activity		Capital Improvement Program
in Data 07/22/99					Quantarily Depart Schedula
O Primavera Systems, Inc.					Quarterly Report Schedule

Activity Description	Rem Dur	% Early Start	Early Finish	FY97 MAMJ	FY98 JIAISIOINID JIFIMAIMIJ	FY99 JIAISIOINIDIJIFIMAIMIJ	FY00	FY01	FY02 JJAISONIDJJEIMAMJ	FY03 JIAISIOINID JIFIM	AMJJ
Design - Riverside Basin Unit 2 Advertise thru NTP - Riverside Construction - Riverside Basin	60 44 100	0 08/13/99 0 11/08/99 0 01/13/00	11/05/99 01/12/00 06/05/00					y			
Closeout/Startup - Riverside	<u>19</u>	0 06/06/00	06/30/00	1							-
5152 6446 - Inv Erc Main La	ndecan	o Restore				1 1 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Summary - Inver.Force Main Construction - IFM Landscape	65* 49	59 02/18/99A 64 02/18/99A	09/30/99 09/08/99								
5161 P) Downsport Disconn	ect Pro	09 09/09/99 PT9111	09/30/39	1				1 2 1) + +)	-
5161(P) Downspout Discon	nect Pr	oaram			1 1 1 2				1 1 13 2	1 2 2 1	
Roof Drain Disconnect Program Construction - Columbia Slough	360* 360	76 01/17/95A 71 07/03/95A	12/01/00 12/01/00								
5161.516X-Will Dwnspout D	isconn	ect Results Stu	udy				1 1 1		1 11 1		
Monitor/Model Will Downspout Monitor/Model Will Downspout Prepare Report, Will	272 250 22	0 07/01/99 0 07/01/99* 0 06/28/00	07/28/00 06/27/00 07/28/00	1				7			
5161.5808-Alameda Downs	pout Dis	scon		14.00 m						1 1 1	1
Downspout Discon In Alameda Downspout Discon In Alameda	254	77 03/01/96A 50 03/01/96A	06/30/00			i		1.1.1	1 11 1		
5161.5809-Beaumont-Wilsh	ire Dow	inspout Discor	7	11 -						1 1 1	
Downspout Discon In Downspout Discon In	254* 254	77 03/01/96A 50 03/01/96A	06/30/00 06/30/00					1			
5161.5810-Boise Downspou	t Disco	П	00/00/00	. i.	H I K	F 6 1				-i	
Downspout Discon in Boise	254	50 03/01/96A	06/30/00		i i î	i i	C				
5161.5811-Humbolt Downsp	out Dis	соп		12-0	4 4 4		- A- 6 K-			1	
Downspout Discon In Humbolt Downspout Discon In Humbolt	254* 254	77 03/01/96A 0 03/01/96A	06/30/00 06/30/00		1 1						
Downspout Discon In King	254*	77 03/01/964	06/30/00	-	1 1 1	1 1 1	SI 6 1		1 = (-1) - (-1) - (-1)	1 2 1	
Downspout Discon In King	254	57 03/01/96A	06/30/00							1 4	
5161.5813-Overlook Downs	pout Dis	scon		1						1 1 1	
Downspout Discon In Overlook	254*	77 03/01/96A	06/30/00								
5161 5814-Sabin Downspou	t Disco	50 03/01/96A	06/30/00			1 1 1				1 1	
Downspout Discon In Sabin	254*	77 03/01/96A	06/30/00	-	1 1 1	1 1 1	i i i i				
Downspout Discon In Sabin	254	50 03/01/96A	06/30/00	-						0 1	-
5161.6014-Rose City Park D	iscn	70 07/01/004	00/01/00	1.1			- 1		1-1-1-1		1
Construction - Rose City Park	275	73 07/01/96A	08/01/00			· ·			1 1 1 1		1 -
5161.6108-Cath. Pk. Dsp. Dl	sc.(Will	amette)		1.16	. /i					1. 1.	
Cath Pk.DS Disc.(Willamette)	254*	70 02/05/97A	06/30/00					1. 1. H. J.	1.301 Jul	1 1 1	
1186(P) RAMSEY LAKE S	254 WWET	LD	06/30/00	1							
5186(P) Ramsey Lake Cons Ramsey Lake Constructed Construction - Ramsey Lake	86* 0*	94 07/01/94A 100 08/25/95A	10/29/99 06/30/99A								
Closeout/Startup - Ramsey	86*	89 09/30/96A	10/29/99	1					1 = 1 $1 = 1$		
5186.5666-Ramsey Lake Pre	edator C	Control								1 1-1	
Ramsey Lake Predator Control	76*	92 02/01/96A	10/15/99	-				1 - 1 - Y 1 - 1 -		(1)	(]
ct Start 97/01/87 ct Finish 12/01/12 Date 06/30/99		Early Bar M Progress Bar Critical Activity	STR.		Con	City of Portland -	BES	Sb	æi 3 of 42		

Activity	Rer	m !	6 Early	Early	FY97 FY98	FY99	FY00	FY01	FY02	FY	03	FYO
Description	Du	r	Start	Finish	MAMJJASONDJEMAMJJAS	ONDJFMAMJ	JASONDJEMAMJ	JASONDJEMAM.	JASONDJFMAMJ	JASOND	J FMAM.	JJA
Ramsey Lake Predator Cor	ntrol	76	70 04/16/96A	10/15/99						-		-
5186.5668-Ramsey Lak	e Plantin	ig & I	rrigation				La o i			11.0	1.0	
Ramsey Lake Planting &	8	36*	92 07/05/95A	10/29/99		1 1 2					See 2. 11	
Hamsey Lake Planting &		86	69 08/29/96A	10/29/99					1 1 1 1 1			-
5186.5669-Hamsey Lak	e weed (Contr	01	00/00/004				1 1 1 1	1 1 1			
Ramsey Lake Weed Control		0.	00 03/29/96A	06/30/99A								
F3 (0/D) Eleke P Serence	tion		00 03/23/30A	00/30/33A		1. 1. 1.		11			1	-
5249(F) Fiske 6 Separa	uon	-	1			1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	
5249(P) Fiske B Basin	CSO Sew	er Se	paration	00/00/00	1 1 1 1				8 1 0 0	1.0	÷	
Startun/Closeout - Fiske B		1	00 05/02/94A	06/30/99			i.			1.2.4		
5240 6416 Eicko B Est	hlich	-	33 11/12/30A	00/30/33	1 1 1 1 1 1	t t 1					1	-
6416 - Fiske B Plant	1.12	7*	20 05/04/084	12/31/03		1 1 1		i la i	l i li i	10.00		1
Advertise thu NPT - 6416	1,10	0	00 06/16/98A	08/14/98A		U U U		1 1 1 1 1 1	1.000 0.000	1 - 1		ili -
Construction -6416 - Fiske	B 1,1	35	0 08/17/98A	12/29/03	4 I 4 I I I I I							-
Closeout - 6416 - Fiske B I	Plant	2	96 12/30/03	12/31/03	1		1 1 1		all of the state o		(d)	1
5292(P) Oswego Basin S	Separatio	n		199 2 2		1 1 1	1 2 3 1			1 - 1 - 1	- 1-	-
5292.6086-North Portla	nd Sewe	r Sep	aration				1 1 1	1 1 1	1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
North Portland Sewer	14	7*	81 01/09/97A	01/31/00				1 1 1		1 8 5	- A - 1	
Advertise thru NTP - N Port	land	0 1	00 05/04/98A	08/27/98A				1 11 4				
Construction - N Portland	1	00	0 08/28/98A	11/19/99					1 1 1 1 1	1.1.0		100
Closeout/Startup - N Portia	nd	47	0 11/22/99	01/31/00						+	_	-
5292.6338 Diversion St	ructure N	Nodifi	cations	05/45/00			in the second	1244		1 1 0		
Diversion Structure Modific	ation 22	86	63 01/05/98A	05/15/00				1 1 1 1		1 2 3		
Advertise thru NTP - Divers	ion	61	0 11/01/99	01/31/00	1 1 1 1	1 1 1		1 1 2 2		1 8 8	1 (P)	
Construction - Diversion		31	0 02/01/00	03/15/00				1 1 4 m - 1	1		6 de 1	
Closeout/Startup - Diversion	n	43	0 03/16/00	05/15/00			· · · · · ·			1-1-1-1-1		1
5302(P) Columbia Sloup	gh Outfal			2.13					1 12 1	0		
5302(P) Col. WWTF Ou	tfall	anal Classic Second	and the second second second			1 - 1 - 1 - 1	1 1 6 1	2 1 2 1	1 1 1 1 1 1			
CBWWTF Outfall	26	3*	83 07/01/94A	07/14/00		1 1 1	E I E	1 1 1 1	Y 31 - 5	1. 3. 3	5 B.C.	
Design - CS\Blvd WWTF		0 1	00 05/01/97A	10/12/98A		y 1		5 15 8	1 11 1		1.1	
Advertise thru NTP - CS\Blv	/d	0 1	00 10/13/98A	01/29/99A		A REAL PROPERTY AND A REAL PROPERTY A REAL		S 1 40 1	3:11 1:	1 1	- Y	1
Constr CS\Blvd WWTF	2	43	30 02/01/99A	06/15/00			4		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- In - 1		
Eloseouvstanup - CSIBIVO	mant An	20	0 00/10/00	0//14/00					0 10 1			+
CBWWTE Outfall Easemon	t Aqu	0* 1	00 12/08/074	06/20/004	A A A A A A A A A A A A A A A A A A A	1 1 1		1. 1. 1	1 1 1 1 1	1 1 1		
Outfall Easement Aquisition		0 1	00 12/08/97A	06/30/99A		1 12 1	hand a second and		1 1 1 2 2	1 -1 - 3		
5302.6406 Outfall Clear	& Grub						3 4 4					1
6406- Outfall Clear & Grub		0* 1	00 06/12/98A	04/15/99A			1 4 1	1 1 1	1 1 1 1 1 1	i i	î.	
6406 - Advertise thru NTP		0 1	00 06/12/98A	08/31/98A				2 2 1	1 1 1 1	1 1 1	¥	
ConstrOutfall Clear & Gru	b	0 1	00 09/01/98A	10/19/98A				1 1 1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	1 11 1	1	1.1	
6406 - Closeout/Startup		0 1	00 10/20/98A	04/15/99A				1		1 1		-
5322(P) Tanner Creek/A	Nicola	11.	and the second second			1 1 1		1 1 1	1 13 14	1 in 1		
5322(P) Tanner Creek/	Vicolai		A COLORADOR CONTRACTOR	Acres Las		1 1 1			1 1 1 1	1. 1. 1		
Hammock- Tanner Creek S	hell 73	6*	62 10/03/94A	05/31/02	5 B 4							
5322.5406-Tanner Cree	k Sewer:	Phas	e I							1 1	7 1	
Tanner Basin Phase 1	55	3*	70 07/01/94A	09/07/01						10 0		
Advertise thru NTP - Tanne	r	41	0 10/01/99*	11/30/99			Him		1 3 3			
Closeout/Startup - Tanner Basin		69	0 06/01/01	09/07/01			1 1 1	1 11 1		1 1		
			0.0001/01	00/07/01							-	-
Project Start 07/01/87			Early Bar MS	TR		11.11		Sbe	et 4 of 42			
Project Finish 12/01/12	-	-	Progress Bar		City	of Portland -	BES					
Data Date 96/30/99	-		Critical Activity		Conital I	mprovement	Program					
Run Date 07/22/99					Capital I	mprovement.	rogram					
O Primevers Systems, Inc.					Quarte	rly Report Sc	hedule					
		_										_

Activity Re	em 9	6 Early	Early	FY97	FY98	FY99	FY00	FY01	FY02	FY03 FY04
Description D		Start	Finish	MAMJ	JASONDJEMAMJ	JIAISIOINID JIFIMAMJ	JIAISIOINIDIJIFIMIAIMIJ	JIAISION DI JIFIMAM	JIAISIOINIDI JIEIMIAIM J	JASONDJEMAMJJAS
5322.5407-Tanner Creek Sewe	er: Phas	e 4			1 1 1			1 13		
Tanner Diversion Phase 4	504*	72 07/01/94A	06/28/01					1	1. 3. 12 (3. 1)	
Advrt thru NTP - Tanner Divrsn	64	0 04/03/00*	06/30/00	1.1					1. 1. 11. 11. 1	1 2 2 2 1 3
Construction - Tanner Divrsn	207	0 07/03/00	04/27/01	1 B	1 A A A	A State of the second s	() = ()		- Sec. 17 7.	
Close/Stup - Tanner Diversion	43	0 04/30/01	06/28/01	1						
5322.5500-Tanner Diversion M	lid-Cree	ek: Phase 2		1.1	1 1 1 1	4 H	1 1 1	0 1 0 1	- at 12-3	1 1 1 1 1 1 1 1 1
Tanner Basin Phase 2	505*	55 01/02/97A	06/29/01					1		
Design - Tanner Basin Phase 2	1 1	00 07/01/97A	06/30/99	1.8						
Advertise thru NTP - Tanner	62	0 09/01/99*	11/30/99	1.1				1.1.		
Construction - Tanner Basin	378	0 12/01/99	05/31/01	1.	1 1 1	1 1 1				1 8 8 8 1 1
Closeout - Tanner Basin Phase	21	0 06/01/01	06/29/01	-					1	
5322.5501-Tanner Diversion U	pper C	reek: Phase	3	- m-	10 10 N	1 - 1 - 1 - 1 - 1				
Tanner Basin Phase 3	756*	63 07/01/94A	06/28/02	-						
Design - Tanner Basin Phase 3	441	0 07/01/98A	03/30/01					1. 11		
Advertise thru NTP - Tanner	64	0 04/02/01	06/29/01	- A		1 1 1	1 4 1			1 P. P. B. 1
Construction - Tanner Basin	220	0 07/02/01	05/15/02	12				7 1 1	1	
Closeout/Startup - Tanner	31	0 05/16/02	06/28/02	-						
5322.5913-Tanner Phase I Unit	t2	20	Contraction of					1 11 1		
Tanner Phase I, Unit 2	0" 1	00 07/08/96A	08/20/98A							1 2 2 3 1
Startup/Closeout - Tanner	0 1	00 05/19/98A	08/20/98A	1				- i fi	1 1 1	
5322.6076-Tanner Creek Water	r Featu	re					1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			
Tanner Creek Water Feature	0* 1	00 08/04/97A	02/26/99A				1	100 13 10	11.11.11.1	
Predesign - Tanner Creek	0 1	00 08/04/97A	02/26/99A		4					
5332(P) Columbia Slough Cons	solidati	on Conduit	12-12-10-1	1	1 1 - 1 - 1 - 1	- 1 - 1 - 1	1. 1. 1.	1 1 2		2 8 8
5332(P) Columbia Slough Con	solidat	ion Conduit		1				1. 13. 1	1 3 14 3 4	1 5 6 6 1
Columbia Slough Consolidation	330*	79 08/08/94 4	10/18/00	1		1 1 1			1 1 1 2 2	1 2 2 2 1 1
Construction - Col SI Consol	254	63 07/22/97A	06/30/00	· · · · · · · · · · · · · · · · · · ·					1 1 1 1	2 2 1 1
Closeout/Startup - Col SI	330	44 02/05/98A	10/18/00	12						
5332 6181 CSCC Seg 1 - Cond	ult Off	58 to CBW	P	1.	1 1 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1	
CSCC Seg 1 - Conduit Off 58	97*	85 08/11/074	11/01/00		. I. I.			1 1 4		6 6 6
Construction - CSCC Seg 1 -	45	00 12/11/07A	00/01/00	1.1	the set of			1 T 1 T 1 T 1	1 1 2 2 1	
Closeout/Startup - CSCC Seg 1	42	0 09/02/99	11/01/99	1.1) H (1 1 1 1 1 1 1	5 S
5332 6182 CSCC Seg 2 - 12' T	unnel L	5 to Offi 58	Thomas	1						
CSCC Sec 2 12' Turpel LE to	225*	67 07/29/07 4	06/05/00	1.0	and the second second		- 1 1 1	2 2 3	1 1 1 1 1	1 1 1 h
Construction - CSCC Sec 2 -	104	0 12/03/07 4	04/06/00	13	1			1 4 4		1 - 2 - 2 - 4 - 1 - 1
Closeout/Startup - CSCC Seg 2	41	0 04/07/00	06/05/00	1.9	· · · · · · · · · · · · · · · · · · ·		100 1		1 = 1 + 12 = 1 - 1	(1 - 0) = 0 - 0 = 0
5222 6182 CSSC Sog 24 - 72"	Condui	+ 225 to LE	00/00/00	1		1 1 1	111 1 1	1 1 1		1 12 - In In In
CSCC Son 24 72" Conduit	204*	EE 07/01/06A	01/00/01	- F	() · · · · · · · · · · · · · · · · · ·	1. I I	111 + 11 1	- Y	1 1 1 1 1	
Design - CSCC Sec 24 - 72*	0 1	00 07/01/964	11/06/084		al al	and the second second	- 10-4 - C 1- 4	1 1	1 2 22 2 1	2 2 2 1
Advertise the NTP - CSCC	0 1	00 11/00/084	02/04/004	1	4 4 4		3.1.1.2. 2.1	1 3 5	1 1 1 1 1 1 1	1 8 8 8 1 1
Construction - CSCC Sec 3A -	355	22 02/05/994	11/24/00	0.0	11 3 4 3 8 8 4	1 1	1.1 4 1	1.1	1 1 1 1 1 1	Y 8 6 4
Closeout/Startup - CSCC Seg	39	0 11/27/00	01/23/01	12-11-1						
5332 6184 CSCC Seg A - Land	ecaning	Armyle & C	olu	1	0.0.0	1 1 1 2 2	iti ali		- 1 E - 1	
CSCC Seg 4 - Landscaping	510*	55 07/01/06A	12/02/01	· · · · · · · ·				A 1.		
Design - CSCC Seg 4 -	127	0 07/01/964	12/30/99		(1 1 P			Contraction of the local sector	0 0 0 0
Advertise thru NTP - CSCC	71	0 01/05/00*	04/14/00	1	0. 1 1	1 1 1		1	이 아이 술 수 있다.	
Construction - CSCC Seg 4 -	368	0 04/17/00	09/28/01	2	1 1 1	1 2 2 2	1011			1 1 1 1
Closeout/Startup - CSCC Seg 4	44	0 10/01/01	12/03/01	4	0.0.0	4 4 4	100 0 0 0	1 1 1		
5332 6186-CSCC Sea 6 - 1-5 Cc	onduit (odor Contro	1	1.4		1 1 1		A		
CSCC Sec 6 - Odor Control @	362*	0.07/01/99	12/06/00		1 1 0		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 2	1 1 1 1 1 1
Advertise thru NTP - CSCC	50	0 07/01/99*	09/10/99	1.2				1 - 2 - 1 - 2 - N - 1	1 8 13 11	
Construction - CSCC Seq 6 -	253	0 09/13/99	09/12/00	1.1	4 4 7	4 4 3			1 2 2 2 1	1 S S H H H
Closeout/Startup - CSCC Seg 6	59	0 09/13/00	12/06/00	1.	1 2 . 2 . 4 . 4		TIT D H T		· · · · · · · · ·	1
		1.	STP						atan	
roject Start @7/01/87		Early Bar			· · · · · · · · · · · · · · · · · · ·	Che of De start 1	DEC	364		
roject Finish 12/01/12		Program Bar				city of Portland -	DES			
96/30/99		Critical Activity			Capi	tal Improvement	Program			
(un Liste 01/22/99					- mpr	antala Bound C	Ladala			
O Primavera Systems, Inc.					Qu	arterly keport Sc	nedule		and the second s	

Activity Rem % Early Early Description Dur Start Finish	FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 MIAMULUIAISIONIDUIEIMAMULUUIAISIONIDUIEIMAMULUIAISIONIDUIEIMAMULUIAISIONIDUIEIMAMULUIAISIONIDUIEIMAMULUIAISIONIDUIEIMAMULUIAISIONIDUIEIMAMULUIAISIONIDUIEIMAMULUUIAISIONIDUIEIMAMULUIAISIONIDUIEIMAMULUIAISIONIDUIEIMAMULUIAISIONIDUIEIMAMULUIAISIONIDUIEIMAMULUIAISIONIDUIEIMAMULUIAISIONIDUIEIMAMULUIAISIONIDUIEIMAMULUIAISIONIDUIEIMAMULUIAISIONIDUIEIMAMULUIAISIONIDUIEIMAMULUUEISIONISIONITIEIMAMULUUEISIONITEISIONITIEISIONITEISIONITEISIONITEISION
5332.6203-CSCC Seg 3B - Construct Station 235 CSCC Seg 3B - Construct 0* 100 07/01/96A 11/06/98/ Design - CSCC Seg 3B - 0 100 07/01/96A 11/06/98/	
5332.6224 - ColSICCF Owner Contr. Insur. Program OCIP - Columbia Slough 233* 68 07/01/97A 06/01/00	
OCIP - Colombia Slough 233 36 07/01/97A 06/01/00 5332.6340 DS CSCC-1 Hauling	
CSCC - 1 Hauling 66* 84 02/09/98A 10/01/99 Construction - CSCC - 1 23 44 06/08/98A 08/02/99 Closeout/Startup - CSCC - 1 43 0 08/03/99 10/01/99	
5332.8341 DS CSCC-2 Hauling CSCC - 2 Hauling 5* 99 02/17/98A 07/07/99 Advertise thru NTP- Hauling 0 100 02/17/98A 09/15/98/ Construction - CSCC - 2 0 100 09/16/98A 04/30/99/ Closeout/Startup - CSCC - 2 5 55 05/03/99A 07/07/99	
532.6359 DS CSCC2 Video Taping PreExisting Cond	
Construction - CSCC - 2 45 81 05/18/98A 09/01/99 Closeout/Startup - CSCC - 2 21 0 09/02/99 10/01/99	
5332.6379 DS CSCC1 Videotaping DS CSCC - 1 Videotaping 66* 83 03/24/98A 10/01/99 Construction - DS CSCC - 1 45 0 04/28/98A 09/01/99 Closeout/Startup - DS CSCC - 21 0 09/02/99 10/01/99	
ASFO, Permit, and Annual Report Dates Columbia Basin Non-ASFO 0 0 06/30/03*	
5380(P) Sellwood Basin Local Sep. 5380(P) Sellwood Basin Local Separation	
Predesign FY98 - Sellwood 22 97 10/01/96A 07/30/99 Predesign FY98 - Sellwood 22 98 10/01/96A 07/30/99	
Sellwood Sewer Unit3 203* 77 10/30/96A 04/19/00 Sellwood Sewer Unit3 Design 0 100 10/30/96A 03/12/99A Sellwood Sewer Unit3 57 0 07/01/99* 09/21/99 Sellwood Sewer Unit3 82 44 09/22/99 01/20/00 Sellwood Sewer Unit3 63 0 01/21/00 04/19/00	
5380.6120 Sellwood Basin Local Seprn Pp Sta Upgd Sellwd Basin Local Separation 549* 14 03/01/99A 08/31/01	
Predesign - Sellwd Bsn Lcl 2 98 03/01/99A 07/01/99 Design - Sellwd Bsn Lcl Spm 168 0 07/02/99 03/03/00 Advertise thru NTP - Sellwd 65 0 03/06/00 06/05/00 Construction - Sellwd Bsn Lcl 251 0 66/06/00 06/04/01 Closeout/Startup - Sellwd Bsn 63 0 0 6/05/00 06/04/01	
5380.6121 Sellwood Basin Local Seprn RDD Sellwd Basin Local Separation 362* 0 07/01/99 12/06/00 Construction - Sellwd Bsn Lcl 321 0 07/01/99* 10/06/00 Closeout/Startup - Sellwd Bsn 41 0 10/09/00 12/06/00	
5380.6240 Sellwood - Umatilla PS Design Hammock- Sellwd Umattilla 600* 11 03/22/99A 11/14/01 Predesign - Sellwd Umattilla 22 91 03/22/99A 07/30/99 Design - Sellwd Umattilla 236 0 08/02/99 07/07/00 Advertise- Sellwd Umattilla 43 83 07/10/00 09/07/00 Construction- Sellwd Umattilla 255 0 09/08/00 09/12/01 Startup/Closeout- Sellwd 44 83 09/13/01 11/14/01	
Project Start 07/01/87 Early Bar Project Finlah 12/01/12 Progress Bar Data Data 66/36/99 Critical Activity Run Data 07/22/99 O Primavera Systems, Inc.	City of Portland - BES Capital Improvement Program Quarterly Report Schedule

Activity Description	Rem Dur	% Early Start	Early Finish	FY97 FY98 MAIMIJJJAISIOINIDIJFIMIAIMIJJJAISIO	FY99 DNDJJFMAMJJAS	FY00	FY01	FY02	FY03 FY04
5380 6243 Sellwood PRE	Desian							1 1 2 1	
Sollwd Basin PRE Design &	841*	24 10/01/074	10/28/02		and the second second	the second se		a da a b	
PRE Land Aquisition	65	50 11/03/07A	00/20/00				i - [i -]	1 1 1	
Producion Sollwood Bacin	107	22 10/01/07 4	12/01/00				1 1 1	1.10 201	3 0 7 3
Design - Sellwood Basin PDE	147	0 10/01/974	06/20/00		Contraction of the second			- I line	
Advertise thru NTP- Sellwood	47	0 12/02/99	00/06/00		A			1 1 F 1	
Construction Sellwood Basin	97	0 11/15/00*	03/22/01						
Startun/Closeout- Sellwood	406	0 03/23/01	10/28/02						
F222 C244 Callwood	400	41	10/20/02						
5380.6244 Sellwood Sewe	r Separa	tion	00/00/04			1 - 1 - 1	- i i i	1 1 1	L
Sellwood Sewer Separation	363	0 09/01/99	02/09/01	1 1 1 1 1 1 1	F		a tan		1
Pre-design - Sellwood Sewer	40	62 09/01/99	05/10/00		1 C S 1 2			S 10 F.	
Design - Sellwood Sewer	135	47 11/05/99	05/19/00		1.1			지 위 유 이 문 사	1 2 2 2 1
Bid & Award - Sellwood Sewe	46	82 05/22/00	07/26/00					1 1 1 1 1 1	
Construction - Sellwood Sewe	r 83	6/ 0//2//00	11/22/00	3. 1 - 5: 3 - 5 5	C. J. 199 (199)	1 1 1 1		1. 1. 1 R. 4	
Istanup/Closeout - Sellwood	53	/9 11/24/00	02/09/01					1 1 1	
5480(P) Columbia Blvd. W	WIF		No.		2	신 김 영지가	1 by 2 a	~ 양 [물 ~ [문]	The second s
5480(P) Columbia Slough	WWTF	· · · · · · · · · · · · · · · · · · ·			1 C	1-1-0-1	1 1 1 - 1 - 1	0 0 0	1
CS\Blvd WWTF	865*	59 08/01/94A	12/02/02						
Design - CS\Blvd WWTF	0	100 03/15/96A	07/31/98A					-10 V V	Y 1 0 1
Advertise thru NTP - CS\Blvd	253	59 08/18/97A	06/29/00			-			
Construction - CS\Blvd WWTF	821*	32 12/18/97A	09/30/02	E E E					
Closeout/Startup - CS\Blvd	858	0 07/12/99*	12/02/02						
5480.6233 CBWWTF Cons	t.Manag.	Serv.s		1 1 I I	1 V 1	A 1 0	1 1 1	Call of the second	1 1 1
CS\Blvd WWTF	505*	50 07/01/97A	06/29/01				1-11-3	2 12 21	1. 1. 1 m - 1 m
Construction Management -	505	0 07/01/97A	06/29/01	4					
5480.6234 - CBWWTF Ow	ner Cont	. Insur. Proar.	C 112 - 200	1 h r - 1 4	1 1	P P (THE COLOR	- 40 - 40 - 40	-1. 10
ColBbd WWTE OCIP	484*	51 07/01/97A	05/31/01		1 1 1	R I I			
Owner Controlled	484	0 07/01/97A	05/31/01					وموجعاتهم والأفات	
5480 6281 New Primany C	arifiar C	BWTD - CSO							
Primary Clarifier CBWTP - CS	267*	A8 02/24/09A	12/12/00				1	10.10.51	
Construction - Primary Clarifier	202	45 06/26/08A	00/11/00				-1 :U		
Closeout/Startun - Primany	64	0 00/12/00	12/12/00	1 1 1 1 1 1	a -1	F - F - F			
5480 6282 WW Prim Clark	flar Mode	CRWTP CSC	121200		1 0 0	5. 1 . i	T III I	12 11 12	
Modify Exist Drimony Clarifian	220*	0.08/01/00	12/02/01	1 1 4 A 4	1 1				
Advartise thru NTP - Modify	530	0 08/01/00*	10/16/00		4 11 1	1 1 1			. 0 D
Construction - Modify Eviet	250	0 10/17/00	10/12/01	* * * * *	1 1 1				
Closeout/Startun - Modify Exist	34	0 10/15/01*	12/03/01			E 0	1 1 1		
5480 6283 Effluent DS Imp	rovomor	+ CRWTD - CS	2						
Effluent DS Improvements	720*	0.01/02/00	10/00/00	1 1 1 1 1 1 1		1 House		T TP III	
Advertise the NTP - Effi DS	130	0.01/03/00*	04/02/02				1 1 1 1	- P. (P P. (
Construction - Effl PS	572	0.06/26/00*	09/20/02						
Closeout/Startun - Effl PS	44	0 10/01/02*	12/02/02	1 1 1 1 1 2	1 1 1		A 11 A - A	1.7.1	
EARO 6284 CRWTD Chiesis	ation Im	provomonio C	120202						
Chloring System Upgrade	auon m	provenients - C	10/00/00	i i i i i i i	1-1-1-0		1 1 1	1. 1. 1. 1.	
Construction -	00	00 12/18/97A	10/29/99	A V State			1 11 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 12 2 1
Closeout/Startun - Chlor Svs	50	0 08/09/99	10/29/99	i i <u>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>			بلادىنانكىلا لأدفده		
EARD 6285 Deebloringtion	Feellin	Uniden Jeland	10/25/55						1 1 1 1
New Chlorination System	racinty i	Tayuen Islanu	00/15/00		· · · ·	l		E. F. M.	1 4 9 4 6 4 6 1 S
Advertise thru NTP - New	307	100 07/15/98A	10/16/09					K 14 X K 1	1 1 1 - 1
Construction - New Chloringtion	286	30 10/10/094	08/16/00						
Closeout/Startun - New	21	0 08/17/00	09/15/00		- 1 - 1 - C - C - C - C - C - C - C - C		Berland	المسالية المراجعة	
5480 6286 Environmental E	nhancen	nente CRWTP	50,10,00		1				1
Environmental Enhancemental	264*	0 11/15/00	12/02/01				المستعلق ا		
I Environmental Emilancements	204	0 11/15/00	12/03/01			1 1 1 1	- b		To strain and the
roject Start 07/01/87	_	Early Bar MS	TR		and the second second		Sheet 7	of 42	
roject Finish 12/01/12		Progress Bar		City o	f Portland - BES				
nta Date 06/30/99		Critical Activity		Conital In	Intervente Dres	Tam			
un Date 97/22/99		1.1		Capital III	iprovement Prog	am			
Contraction of the Contraction o		the second se		Ouarter	ly Report Schedu	le			

Activity Description	Rem Dur	% Early Start	Early Finish	FY97	FY98		FY00	FY01	FY02	FY03	FY04
Advertise thru NTP - Environ.	56	0 11/15/00*	02/06/01	MIAIMIJ						I JIAIS OIN DI JIEIMAIMI J	JIAG
Construction - Environ.	184	0 02/07/01	10/26/01	14	-3-4-4-4	1					11
5481(P) Willamette Site Acn	nisition	0 10/25/01	12/03/01								-
5481(P) Willamette Site Acc	uisition			T.					1 1 1		
5481 - Willamette Site Acqu	0*	100 01/03/95A	02/26/99A	-			the design of the second		10 11 1 1 1		
Pre-design - Willamette WWTF	0	100 01/03/95A	02/26/99A	-							
5499(P) Columbia Blvd. WV	VIF Int	luent PS						1 3 13 4 1	A 48 1 1		
5499(P) Columbia Slough V	375*	71 11/06/95A	12/22/00	1	1 1 · · ·	- 1- J.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1	1 42 2.1		
Advertise thru NTP - Col SI	0	100 03/09/98A	07/06/98A	1		7			+ 12 1 1		
Construction - Col SI Influent	305	33 07/07/98A	09/13/00	÷	4 7 7	1 4 1			- 1 3 - 1 - 1	1 1 1	
5502(P) California Storage		0 03/14/00	122200	1						2 2 2	-
5502(P) California Storage											
California Storage	764*	0 07/03/00	07/11/03						1 1		1
Design - California Storage	217	0 07/03/00*	05/11/01	a.				<u> </u>			
Construction - California	483	0 07/02/01	05/28/03	-	1 1 1						
Closeout/Startup - California	30	0 05/29/03	07/11/03	- E	3-1-1		2 1 1				<u> </u>
5503(P) Western Half Lents	1 Separ	ation		8	3 3 3	3 3 3	1 (I	1 12 2	14217 311	1 3 8 8 1	
West Lents Separation	651*	0.01/03/00	07/31/02				0 0			Ц	
Predesign - West Lents	127	0 01/03/00*	06/30/00	4	1 3 4			1 1 1 1	1 11	F C C I I	
Design - West Lents	207	0 07/03/00	04/27/01				A A - 4				
Construction - West Lents	251	0 07/02/01	06/28/02	12		1.3.3.4.4.				**	
Closeout/Startup - West Lents	22	0 07/01/02	07/31/02	1	4 4 9					P	_
5503.6541 Predesign & Des	152*	33 03/15/004	02/07/00	1	1 A A	3 3 3	<u>)) – (</u>		The Market Mark	1 1 2 2	
Predesign - Western half Lents	0	100 03/15/99A	05/12/99A	1.1				1 1 4			
Design - Western half Lents	152	18 05/13/99A	02/07/00	1		1. 10 11 00.1					_
5504(P) Woods Stream Dive	rsion	State of the state	1 F.A.S					2 1 1	1 11 1		
5504(P) Woods/Sheridan St Woods/Sheridan Stream	674*	0.01/03/00	09/02/02		- 注 注 注			<u>i li i l</u>	11111		
Predesign - Woods Stream	127	0 01/03/00*	06/30/00	1.1	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			A 11 11		
Design - Woods Stream	203	0 07/03/00	04/23/01	4.	1 4 1						
Construction - Woods Stream	251	0 07/03/01	07/01/02		1 1 1	1-1-1			A	•	
Closeout/Startup - Woods	44	0 07/02/02	09/02/02	1							
5505(P) Sheridan Stream Di	version	1991 (A. 1997)					Y				
Sheridan Stream Diversion	904*	0.07/01/99	01/30/03				1 1 1				
Predesign - Sheridan Stream	125	0 07/01/99*	12/29/99								
Design - Sheridan Stream	486	0 12/30/99	12/03/01	10	1 C E	0.0		- 12 A. 14-		3 1 1	
Construction - Sheridan Stream	200	0 02/21/02	12/02/02	£	- 0 - 0 - 4	l upuga pu		- 1 11 1			
Closeout/Startup - Sheridan	40	0 12/03/02	01/30/03	1							-
5506(P) Carolina Stream Di	version		the second second	1							
Carolina Basin Stream Di	648*	0.01/03/00	07/26/02					111		5	
	0.10		STR	1.				Sheet R	af 42		
oject Finish 12/01/12	-	Progress Bar				City of Portland -	BES				
ta Dete 06/30/99		Critical Activity			Can	ital Improvement	Program				
n Date 07/22/99					Cap	arterly Report Se	hedule				
O Primavera Systems, Inc.					Q	an terry report Se	nedule				_

	Activity	Rem	%	Early	Early	EY97	1	FY98		FY99	100		YOO	11.	FY01		FYO	2		FY03	EY
	Description Predesign-Carolina Pasin	107	-	Start	Finish	MAM	JASO	NDJI	MAMJ	JASONDJ	FMAMJ	JASON	DJEMAM	JJASO	NDJFM	AMJJ	AISIONDJ	FMAMJ	JASO	NDJFM	AMJJA
10000	Design-Carolina Basin Stream	187	0	07/03/00	03/30/00	1.1	3	- 1		1 1 1	4	1	$T = 0^{-1}$	1	11 3		12.12	Ť.	1	1	
	Advertise - NTP-Carolina Basin	64	0	04/02/01	06/29/01	× .	1.1.1		2	11 2 2	5	- 50	1 3	1			1.11			1	
000000	Construction - Carolina Basin	250	0	07/02/01	06/27/02	64.1.1	S			1. 4	- X	- 11	4 4	1	11 3		- P			i. R	S 1
20202	5507(P) Baich River Crossin	a		UUIZUIUZ	OTTEGROE	1			-1		10	19	1 1	-				1	+		
	5507(P) Balch River Crossi	5				1.	1.1.1		1.1	1 3 3		1	11.10	-	11		1.12	1	1	1	5
CONTRACTOR OF	Balch River Crossing	746*	0	07/03/00	06/16/03	+		1			10		1. I.	1	1 +		4 14	<u></u>	. 1	4	-
	Design - Balch River Crossing	222	0	07/03/00*	05/18/01	0. 	100	12		1 3 3	0.0		1. L.	-		7		11	1	1	
000000000	Advertise thru NTP - Balch	29	0	05/21/01	06/29/01	÷				1 4 4	1		1	1 X.	43	4	1 10	0			
	Closeout/Startup - Balch River	430	ő	03/17/03	06/16/03	0	1 3	1	1	1 1 1	ý.	100 A	1	4	1			-			1
	5508(P) Balch Pump Station			0-1-1-1-1-	24				1			-	1 0	1	1			i.	1	1	
	5508(P) Balch Pump Station	7				0. 0.	4	- 3	1	1.4.4	0. T		1	1	14-1		1 1	n			
	Balch Pump Station	1,713*	0	07/01/99	04/17/06	1.0	1	4	1 1		+	-	-	1	1	T					
	Predesign-Balch Pump Station	151	0	07/01/99*	02/07/00	4	1.1	1	4	1 1 1	1	1.10	1		1.		1.11	1	1	1.1	
	Advertise thru NTP - Balch	24	ŏ	07/02/01	08/03/01	13	1.14	12-	- 12	1.4 4	- +	4	1 0	1	17	h	11 1	- 1 1	1	- ÷	
	Construction - Balch Pump	442	0	08/06/01	05/05/03	1	-		-		1		1.1	1	1				-		
	5509(P) Ankeny Pump Static	on Upg	rade				4	12	-		-	26		1	11-1		- 11	1		-	1
	5509(P) Ankeny Pump Station	on Upg	rade	01/02/00	07/14/02	1	1 1		-	1.6.9	1	1		i i	1		1-14		1	- 1	1
	Design-Ankeny Pump Station	273	ő	01/03/00*	01/31/01	1.1	1.1.5	1	1		1	1.1		T	-		2 12	11	1 2		- 1
	Adverise thru NTP - Ankeny	105	0	02/01/01	06/29/01	1.0	1.1	4	10	1.3.3						-	3 13	-0	i.	1	i
	Construction - Ankeny Pump	484	0	07/02/01	05/29/03	1	- Q.		1			1	1.3		19		. 1.	11			-11
	5510(P) Ankenty/Balch Cons	olidatio	n Co	nduif	07/14/03	1		-	4	4.1	1	1	1 1	1	11		1 11	1	1	-	
Ĩ	5510(P) Ankeny/Balch Cons	olidati	on Co	onduit			11.92	ų.	S				P. P.		Ti s		1.11	- P	1		8
	Ankeny/Balch Consolidation	883*	0	01/03/00	06/30/03		1.1.1	1	1		di la				11						-
	Design-Ankeny/Balch	273	0	01/03/00*	01/31/01	10.0	11.05	1.0	1.1	1 1 0	1	1	t	-1 -3			11		1 -	1	
	Advertise - NTP-Ankeny/Balch Construction - Ankeny/Balch	105	0	02/01/01	06/29/01	7	11.6	- 41			10			1.1			1 14	1			
	Closeout/St - Ankeny/Balch	22	ŏ	05/29/03	06/30/03	(B	1.1			1.	i i i	4	1 1					1	E.		H
	5511(P) Woods/Sheridan/Mi	ll Cons	ol. Č	onduit	100		1.0			1 1 1	1	1	1 1	L Da	a la	£		i i	1		
	5511(P) Woods/Sher/Mill Co	nsolida	ation	Conduit				1	1	1 1	1	1.6	1	1		111	- E		1		
	Woods/Sheridan/Mill Conduit	833*	0	01/03/00	04/18/03	0	1.1	1	1	1.2	1	18		_	1.		1 1 1	1			7
	Design - Woods/Sheridan/Mill	251	0	01/03/00-	06/30/00	10	1 8	- 16-	-4-1	1 1 1	1.		-		ti	-		- 3-1		1	
	Advertise thru NTP -	44	ō	07/02/01	08/31/01		1 1	110	- 1. I.	1.1.1	2	1.1		11.15	11		7	- 2.1	1		
	Construction -	361	0	09/03/01	02/06/03	1	2	2	÷.		1	1.1	1 - 1 - 1	1.1	11 1			. 1	1		
	5512(P) Willometre Biver W	WTE D	hace	1	04/10/03	1	1 2		1			1	1	-	1	-	1				
	5512(P) Willamette WWTF D	hase 1	and other	*				2			1	1		-	13 3					1	
and the second se	Willamette WWTP	1,984*	0	07/01/99	05/14/07	1.10	1	1	7	1 1	4.1	- la	1	1.	11 1		li		Ll	î	1
	Design-Willamette WWTP	504	0	07/01/99*	06/29/01	1) 10		4	3	1 1 1	1 4		F T.	1	11		10	1	2	1	÷
	Construction - Willamette	70 674	0	10/10/01	10/09/01	1		4	11	18 31	1: 1	1	2 K		1: 1	F	11		1	4	t
-	Closeout/Startup - Willamette	736	ő	06/11/04	05/14/07	1	1		1	1 1	1		1	1			L. Li			-	-
	55151(P) Williametic River W	WTEE	hase	2		0	1 10	-	÷.	1-4-11		8	1. U		1: 1		1	1	-8-	4	1
	5513(P) Willamette WWTF P	hase 2				0	1 1	÷.	1	1 1	1.	1		1	11 3		1 1		1	1	£
	Willamette WWTP	1,817*	0	07/01/02	09/11/09	1.2	1	t	11		4	. Y.	1		¥! :		÷ •				
-	ect Start \$7/01/87	_	E	ty Bar MS	TR					English and				_	_	Sheet 9 o	142				
-	ect Finish 12/01/12	-	-	gress Bar					-0	City of Por	land -	BES					211				
-	Date 06/30/99	-	Cr	tical Activity					Can	ital Improv	ement l	Program	, i								
	Unce 97/12/79								0.	parterly Do	ourt Sal	hodala									
_	O Primevera Systems, Inc.							_	Q	laiterry Re	POLL OC	acume									

	Activity	Rem	% Ea	arly Early	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FYO
	Predesign - Willamette WWTP	257	0 07/01	/02* 07/03/03	MAIM	JIAISOINIDIJIEIMIAIMI		JJASQINIDIJIFIMAMIJ	JIAISIOINIDI JIFIMIAIMI.	JIAISOIND JIFIMAM		
	Design - Willamette WWTF	400	10 07/07	/03 02/04/05		1 1 1		1 1 1	if		1.20.00.20	-
	5514(P) Ankeny Force Mai	n		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			1 1 1				1 1 1	
	5514(P) Ankeny Force Mai	in			1			1 1 1 1	1-12-12-	1 5 45 - 6 1		
	Ankeny Force Main	1,018*	0 07/03	/00 07/14/04	2	1 8 8 6	1 8 8 6		1	• · · · · · ·	L i r i	1
	Advertise thru NTP - Ankeny	177	0 07/02	/01 03/15/02	14	1 1 1 1	1 1 1 1				i i i	
	Construction - Ankeny Force	559	0 03/18	/02 05/28/04	1			1 1 1			L A Y U	-
	5515(D) Willowette WWW	31 Chatfall	0.06/01	/04 07/14/04	;	1 1 1 1	1 1 1				1 1 1 1 1 1 1	-
	5515(P) Willamette WW/TE	Outfalle		-1 19121.00				1 1 1			1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11
	Willamette Outfall	1.206*	0 07/03	/00 04/13/05	12	1 3 8	1 3 3 5	1 1 1	() i		0 0 0	1
	Design - Willamette Outfall	251	0 07/03	/00* 06/29/01	1	1 1 1 1	\rightarrow \rightarrow \downarrow	6 1 6 4			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Advertise thru NTP	160	0 07/02	/01 02/20/02	1	4 I I I			1	1 1 1	2 0 C	
	5516(P) Fost Transel	711	0 02/21	102 12/10/04	1	1 1 1		+++++	1 1 1			
	5516/P) Willamette Fast Tr	unnel			1		1 1 1 1		1 1 1 2	1.1.2.5		
	East Tunnel	1,991*	0 07/07	/03 05/31/11	12 T		1 1 左十二		1 12 12	1 12 2	1 1 1	-
	Predesign - East Tunnel	185	0 07/07	/03* 03/30/04	12-1	1 1 1 1			1 11 1			E
	Design - East Tunnel	504	0 03/31	/04 03/30/06							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	SST/(P) East Tunnel Drop.	Suarts	Chatta					1 2 2 1	1 注稿 主			
	Willamette East Tunnel Drop	1 806*	0 03/31	/04 05/31/11	13. 1			3 - 3 - 4 -	1 1 1 1			
	Predesign - Willamette Drop	185	0 03/31	/04* 12/21/04						1 1 1 1 1 1 1	1 1 1 1	
	5523(P) California Consol.	Conduit	1. Sec. 1.			1 - 1 - 1 - 1					1 - 1 - 1	
	5523(P) California Consoli	dation C	onduit				1 余 余 余 二					
	California Basin Consolidation	678*	0 11/22	/99 07/31/02			1 1 3 1					
	Predesign-California Basin Design-California Basin	154	0 11/22	/99* 06/30/00				1 Aug	- i li			
	Advrt-NTP - California Basin	58	0 05/07	/01 07/27/01	1.5	1 1 1 1 1 1			1 1 1 1	5		
	Construction - California Basin	232	0 07/30	/01 06/28/02	1.400			i i		10		
	Sel 2 (D) Dourner out DISC (22 Damas	0 07/01	102 07/31/02							Pili	
	5612(P) Downspourt Disc (Trans.									1115	
	Hammock 5612 - Downspout	360*	70 03/04	/96A 12/01/00	-					1 3 13 3	1 + + + + + + + + + + + + + + + + + + +	
	Construction- DISCO EPA	317	64 03/04	/96A 09/29/00					7-7	「美国主人」	しままま	
	Startup- DISCO EPA Grant	43	0 10/02	/00 12/01/00	1	4 4 4	-1-1-1					
	Discon Arbor Grant	254*	82 01/03	954 06/30/00	1	1 1 1	1 1 1	1 1 1	I T T		1 4 4 6	
	Discon Arbor Grant	254	71 01/03	/95A 06/30/00						0.00	1 1 1	_
	5612.5616-Discon Woodlay	wn Grant			1-							
	Discon Woodlawn Grant	254*	82 01/03	95A 06/30/00		1				1 - 4 - 4 - 3 - 1	1 1 4 1	
	5612 5617-Discon Concord	ta Grant	71 01/03	95A 00/30/00	1	1 1 1	1 1 4	1 1 1 1		1 1 1	1 1 1	
Constraint of the	Discon Concorda Grant	254*	82 01/03	95A 06/30/00	1	1 1 2		1 1 1 1	et da la composition	1 3 4 3	1 1 1 1	
and the second	Discon Concorda Grant	254	71 01/03	95A 06/30/00							5 5 1	_
	5612.5618-Discon Vernon	Grant	00 01/00	OF A 00/00/00	1		1 1 1				1 1 1 5	
	Discon Vemon Grant Discon Vemon Grant	254	71 01/03	95A 06/30/00						1 1 1 1	1 1 1 1	
	Jerre Lander Land									·		1
				Lauren					-			
Proj	ject Start 07/01/87		Early Bar	MSTR			City of Doutland	RES	Shee	1 10 of 42		
Det	a Date 06/30/99	-	Critical Activ	ity			city of Foruand -	DES				
Run	a Date 07/22/99					Cap	ital Improvement	Program				
	O Primavera Systems, Inc.					Qu	arterly Report Sc	chedule				
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Activity	Rem	%	Early	Early	EV07	1	EVO	0	1	_	V00	-1-	_	EVOO			EVOI		1-	EVOS	1	1	F	/03	F	104
Description	Dur		Start	Finish	MAM	JJAS	ONDJ	FIMAM	JJA	SON	DJEMA	MJJ	SON	DJEN	AMU	JASO	NDJ	MAM	JAS	ONDJ	FIMAM	JJA	SOND	JEMA	MJJ	AS
5612.5619-Discon Alame	da Grant	1.			1	1		1	1	Î	1 1		- (1	11		1	+	0		1	6.7		
Discon Alameda Grant	254*	82	01/03/95A	06/30/00							_			-		0.1	1.	4	1	1	- it i		1	1	- 11-	
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Discon Overlook Grant	OK Grant	82	01/03/054	06/30/00	1			1		1	1 1	1.1	- 11	_	4		11	2	1 3				1.	1		
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5612.5658-Discon Kentor	Grant				1	1	1 1 1	-		1	1 T	10	ŵ.	14 14			11	1	-	1						
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Discon Kenton Grant	254	29	08/01/95A	06/30/00	1	1	1	1		1	1 1		1	1	1		1		1	- 1-		++	1			
Discon Portsmouth Grant	254*	82	01/03/954	06/30/00	-1-	1	1	1		1	1 1	-		(+	1		11	1		10	1		÷	1 1	(- I -	
Discon Portsmouth Grant	254	48	01/03/95A	06/30/00		di secolari					-			F	1 7			1			1		4			
5612.5744-Discon Univer	sity Park	Gran	t	1.	1			1		1	1 1			f.	1		1 h	1	1		1		7	i = 1		
Discon University Park Grant	254*	82	01/03/95A	06/30/00											-		11	1		10	1		1.1	- 1		
Discon University Park Grant	254	48	01/03/95A	06/30/00	1	1 1	Ĩ	1		Ĩ	1 1		1	t	1			1.	-	-+-			+	1-1-	-	-
Discon Beaumont - Wilshire	Shire Do	wnsp	02/01/064	06/20/00	1	1	- i	i		i	1 1	-	-	,É	÷	2.71	11	1	1 - 1	10	1		1	· · · ·		
Discon Beaumont - Wilshire	254	50	03/01/96A	06/30/00										-	-		11	- 1		-13	- 1		1			
5612.5816-King Downspo	out Grant				1			1		1	1 1			A.			14	1			1		1	l = l		
King Downspout Discon Grant	254*	77	03/01/96A	06/30/00		T								-	-		тł į	100	1 3	11	1		1	1	1	
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5612.5818-Pledmont Dow	mspout (Grant		The second	1.0	1		1	-	1	1 1.		1	e.		1	13	1		11	1		3	1 1		
Piedmont Downspout Discon	254*	77	03/01/96A	06/30/00						1			-		-	r = 1	1.1	i.		10	- 3. 1		3	2 8		
Piedmont Downspout Discon	254	50	03/01/96A	06/30/00		1			-	-	-						-		1	-+-			-	-	-	-
Sebin Downspout Discon Grad	out Gran	77	02/01/064	06/30/00				-		-	1			1		. 1	11	12		11	1		÷	(-di	()	
Sabin Downspout Discon Gran	nt 254	50	03/01/96A	06/30/00										-				1					÷	i = i		
5612.5925-St Johns Down	nspout D	iscon	nect Gran	t	1	1		Ű.		i.	1 1		1	Â.	1	i.	1î	- 1 - 1		1			4	1 - 1		
Project Summary - St Johns A	254*	70	02/05/97A	06/30/00						-			-	-		1	11	6		11	÷.		1	1 1		
Const - St Johns A Sep Phase	254	16	11/03/97A	06/30/00	1	+ +				1	-		- 1	6	1		- 1	-	-	-		++	1	1 I		-
Broject Summany - Discon Catin P	K Grant(C	201.51	02/05/07 A	01/12/00	19	1 1		- 1	-	1	1 1		1	-	÷	1		- 20-		15	- k.		100	1 1		
Construction - Discon Cath Pk	136	75	11/03/97A	01/13/00	1	4 4	1			ti.			3				- 1	1		11			N	5		
6011(P) Willamette Prede	sign	1.1	i. Ale		1	1		- v -		i.	1 1		- 1 -	1	1	1	i.	-1		- 15	=;		1	1		
6011(P) Willamette Prede	sign				15		t i	2. K		T.	2 1			1	÷	- I	1	1	11-3	11			n in	1 1		
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Sullivan Basin	Section 1		Res and			= 1	1	A		1	1 1		1	1	1	1	1	1		11	î		1	1 1		
6073(P)-Sullivan Basin Co	ombined	Sewe	r Relief	10/00/00		1 3		- 2	1	1	1 1		-1	1	1	1	11	1		14	Į.		1	1 1		
Sulivan Basin Combined	379*	47	03/11/98A	12/29/00	+			AT		1	1 1			1	1		-	1	-	14	-4	++	1	1 1		-
6256 (S) Packaging Bidg.	Demo				2	1 3	11	1111		27	1 1		1	100	£	1		1		140	1		1	l = 1		
6256 (P) Packaging Bidg.	Demo	100	07/15/074	09/21/09 4	11	-	1	¥.		1-	1 4	-	- ÷	4.3	£	1		1		1	- 1	11-	1	1 1		
Startup/Close out - CBWTP	0	100	06/19/98A	08/31/98A	11	1.0		TT.	-		deede		44.	ستناب	· · · ·	in it	-++-				1		÷	1 1		
6256.6276 PRB Bldg.Dem	o Trucki	ng			1			1	11.1	1.1.	1 1		1	1	1	F.		1					1	1		
Trucking for Bldg Demo	0*	100	11/03/97A	08/31/98A		1 1		11		1			1	1	a l	1.1		+		111	13		1	1		
Startup/Close - Trucking for	0	100	07/01/98A	08/31/98A	1	1	i	li-		<u> </u>	1	_	-T	1	1		**	1			- 2	*	3			_
oject Start 07/01/87		2	rty Bar MS	STR					2.0	1000	1. THE							Shee	n 11 of 42							
roject Finish 12/01/12		Pr	ogress Bar						Cit	y of F	ortlan	I - BE	S						1.1							
nta Date 06/30/99		Cr	ttical Activity					Ca	pital	Imp	roveme	nt Pr	ogran	n												
61121179									Juar	terly	Report	Scho	dula													
O Primavera Systems, Inc.									cuar	city	report	Sche	unic													

	Activity	Rem	%	Early	Early	-		-										,					
	Description	Dur	20	Start	Finish	FY97 MAMJ	JASO	FY98	MAMJ	JASO	FY99 NDJF	MAMJ	JASON	FY00	MAMJ	IASONI	YOI	LIASON	FY02	JASON	FY03	MAMJ	F
	6256.6403 Temp Site Civil V	Vork				1 i	erroiei	I		1	1	, i	enneten	i	1			i i i i i i i i i i i i i i i i i i i	leter internet	1	i i i i i i i i i i i i i i i i i i i	Income	
NA DOLLAR	6403 Summary - Temp Site Construction - Temp Site Civil Startup/Close out - Temp Site	0.00	100 100 100	05/04/98A 06/25/98A 09/16/98A	11/16/98A 09/15/98A 11/16/98A		-					-			1								
	CSO Inchiental Expenses	e de la come			Sec. 2 par	1	1	1	1	1	1	1	1	1	10	1	1		13 3 1	-			ſ
8	9005-CSO Program Inciden	tal Expe	nse	5		1.	1	5	1.	1 1	1	1.	1	÷.	1 1	2.1	1	1 1	11 1	1 1	1.1	2	Ľ
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CITY OF PORTLAND COMBINED SEWER OVERFLOW PROGRAM ANNUAL PROGRESS REPORT FISCAL YEAR 99-00 (ASFO WQ-NWR-91-75)

CITY OF PORTLAND BUREAU OF ENVIRONMENTAL SERVICES

JUNE 30, 2000

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I. Summary

The following summarizes the City of Portland's efforts to minimize and/or eliminate Combined Sewer Overflow (CSO) discharges to the Columbia Slough and Willamette River during the past fiscal year:

- Continued work on the Willamette River Basin CSO Predesign Project (WRPP), which will
 refine the CSO control alternatives identified in the current CSO Management Plan for the
 Willamette River Basin component of the CSO Control Plan.
- Continued to implement the Cornerstone Projects to reduce stormwater inflow into the combined sewer system. Construction was substantially complete on all Columbia Slough Basin Cornerstone Projects.
- Construction was substantially complete on the Columbia Blvd. Consolidation Conduit, the CBWWTF Influent Pump Station, and the CBWWTF Outfall projects. Construction on the Columbia Blvd. Wet Weather Treatment Facilities projects were about 60% complete.
- Continued CSO operation and maintenance activities to reduce the environmental impact of current CSO discharges.
- Continued implementation of a comprehensive public information/public education/public involvement program.

The program to control CSOs is on schedule and within the projected budget.

The following summarizes the planned efforts to minimize and/or eliminate CSO discharges to the Columbia Slough and Willamette River during the current fiscal year:

- Complete the Willamette River Pre-design Project.
- Design and/or construct additional CSO Cornerstone Projects (stormwater infiltration drainage sumps, downspout disconnection, stream diversions, and local sewer separation).
- Begin the design of the CSO control facilities associated with the outfalls on the west side of the Willamette River.
- Continue current CSO operation and maintenance activities to reduce the environmental impact of current CSO discharges.
- Continued implementation of the public information/education/involvement programs.
- Complete Columbia Slough CSO Project by Dec., 2000

II. Introduction

The City of Portland Bureau of Environmental Services (BES) manages the planning, design, construction, and implementation (startup) of all capital projects. The number of capital improvement projects, listed by program area, are shown on the following table:

Category	Projects Listed at End of FY 99-00	Projects Open During FY99-00
Combined Sewer Overflow	271	58
Maintenance and Reliability	316	92
Mid-County Sewer	88	5
Sewage Treatment	255	67
Surface Water Management	117	37
Systems Development	97	23
Total	1,144	282

At the end of FY 99-00 there were 1,144 individual projects listed in the CIP, with 282 projects listed as "open projects" during the year. "Open projects" are all active projects that were not closed prior to the beginning of FY 99-00.

The 271 CSO projects (see Appendix A for those in the current five year CIP) represent the CSO Control Plan as it currently exists within the City of Portland. This report focuses on the accomplishments on those projects. It should be noted, however, that there are projects in other CIP categories that have or will have a positive impact on the control and/or handling of CSO. The benefit and status of these projects is not covered in this report.

This report is submitted to the Oregon Department of Environmental Quality (DEQ) pursuant to Amended Stipulation and Final Order (ASFO) No. WQ-NWR-91-75 issued to the City of Portland (City) by DEQ on August 11, 1994. As stipulated in the ASFO, this report summarizes the City's efforts to eliminate unauthorized CSO to the Columbia Slough and the Willamette River during the past fiscal year and identifies the work planned under the CSO Program for the current fiscal year.

The ASFO requires that the report be submitted to DEQ by September 1 of each year that the ASFO remains in effect.

III. Background

At the time the original Combined Sewer Overflow Stipulation and Final Order (SFO) was issued in 1991, approximately 60% of Portland's population was being served by a combined sewer system that collected both municipal wastewater (residential, commercial, and industrial sewage) and municipal stormwater (roof runoff; street and paved surface runoff; and some urban stream runoff). Currently, when there is a storm event in the City, runoff typically exceeds the

carrying capacity of the combined sewer system causing overflows to both the Columbia Slough and the Willamette River through up to 55 individual outfalls.

These overflows are in violation of Federal clean water regulations and have been deemed a significant source of water pollution in both the Columbia Slough and the Willamette River. Before control work began in 1990, the City's CSO outfalls discharged on average approximately 6.0 billion gallons of combined sewage annually. Approximately 20% of the content of this annual overflow is projected to be untreated municipal wastewater.

As of June 30, 2000, due to significant interceptor system improvements, completion of numerous diversion structure modification projects, and the completion of many of the Cornerstone Projects, approximately 3.0 billion gallons/year of overflow has been eliminated based on current model projections.

The current ASFO is essentially a 20-year compliance schedule to reduce overflow from the City's combined sewer system. It includes the following major milestones:

- By December 1, 2000, the City must eliminate all CSO discharges to the Columbia Slough that violate provisions of the ASFO.
- By December 1, 2001, the City must eliminate all CSO discharges that violate provisions of the ASFO at 20 of the CSO outfalls (including the Columbia Slough outfalls) consistent with the Facilities Plan approved by the Environmental Quality Commission (EQC).
- By December 1, 2006, the City must eliminate all CSO discharges that violate provisions of the ASFO at 16 of the remaining CSO outfalls consistent with the Facilities Plan approved by the EQC.
- By December 1, 2011, the City must eliminate all remaining CSO discharges that violate provisions of the ASFO consistent with the Facilities Plan approved by the EQC.

Also included in the ASFO are a number of intermediate milestones, including the submittal of annual progress reports to DEQ by September 1 of each year that the ASFO is in effect. The reports are to summarize the work performed during the past fiscal year and identify the work planned for the current fiscal year to eliminate discharges that violate the provisions of the ASFO.

IV. Past Fiscal Year Activities

This section summarizes the CSO abatement efforts for the period beginning July 1, 1999, and ending June 30, 2000. The section is divided into the following subsections:

ASFO Milestones Achieved Program Planning Accomplished CSO Control Projects Planned, Designed, and/or Constructed CSO Operation and Maintenance Activities Public Involvement Activities

A. ASFO Milestones Achieved

There were no ASFO milestones scheduled for completion during the fiscal year. All 35 scheduled SFO/ASFO milestones to date have been met on time since the signing of the initial SFO.

B. Program Planning Accomplished

Program planning continues to be an important aspect of the work being performed under the CSO Program. Planning is important to insure that the technical requirements of the ASFO are met within the schedule and budget constraints of the CSO Program. Important planning activities accomplished during the fiscal year were as follows:

- Internal meetings and meetings with the Willamette River Stakeholders Task Force (WRSTF) to develop and provide technical and nontechnical information related to the progress on the WRPP and the Clean River Plan. The WRSTF, which includes neighborhood, business, industry, civic, environmental, city, and regulatory representatives, has been providing guidance on the WRPP and the Clean River Plan. The WRSTF prepared and presented a report to the Portland City Council and the Bureau of Environmental Services with recommendations for how best to deal with the control of CSO and other environmental issues. The issuance of the WRSTP report concluded the task force's work.
- Continued the WRPP, which will refine the CSO control alternatives identified in the current CSO Management Plan and perform the predesign of the recommended projects. The planning is essentially complete, with the predesign to be completed by December 2000. The results of the WRPP will be integrated into the City's Clean River Program.
- The Draft Portland Clean River Plan (the Plan) was completed in October 1999. The Plan is a strategic approach for meeting multiple regulatory requirements and city goals. It will eventually address most everything Environmental Services does including: systems development and maintenance, system optimization, CSO control, stormwater management, watershed restoration, stewardship, coordination, and flood protection. After a City Council hearing the Bureau developed a more detailed report that was completed in March 2000. The Clean River Plan report describes ten action strategies the city proposes to undertake to reduce/eliminate CSOs and restore the environment. The Plan is geared to meeting requirements of the ASFO, Endangered Species Act, and the city's NPDES permits. It also anticipates needs for removing urban streams from the list of water quality limited water bodies. The Plan helps meet numerous community and city goals such as flood relief, watershed revegetation, and stewardship.

• City officials met several times with DEQ staff, the Governor's staff and community representatives to review the plan and discuss the pros and cons of the proposed strategy, schedule and budget. The City would like to take additional time on the East Side CSO work to maximize the extent of removal of stormwater flow from the combined system and to allow more intensive work on the tributary pollution and habitat problems, than could be scheduled to occur with the extent of capital investment required under the existing ASFO schedule. DEQ believes that the CSO control issue is more critical than any other issue in the city and has held to the timeline for the ASFO while saying that the approach we proposed is very good. Discussions are continuing and the final version of the Clean River Plan has yet to be determined. In the meantime we will continue to meet the requirements of the ASFO as we have since 1991.

C. CSO Control Projects Planned, Designed and/or Constructed

As noted in Section II, 58 of the 271 projects in the City's CIP directly related to the CSO Program were active during the fiscal year. To be "active" a project must have been in at least one of the following project phases:

Predesign Design Advertise/Bid Construction Close Out/Startup

A review of the schedules in the Appendix A information will provide a visual indication of the status of each of the 58 projects. The following is a narrative summary for some of the major projects and project groups:

Downspout Disconnections

During FY 99-00 the City met the established flow removal goal for the Columbia Slough Watershed and expanded the program to a large area of the East Willamette Watershed containing over 20,000 single-family residential properties. During the fiscal year 3,238 downspouts were disconnected at 1,732 homes removing over 35 million additional gallons of stormwater per year from the combined sewer system. An additional 800-900 homeowners signed up to disconnect downspouts but the work was not completed before the end of the fiscal year. Through June 30, 2000 downspouts have been disconnected at over 9,500 homes resulting in a cumulative removal of over 200 million gallons of stormwater per year from the combined sewer system.
Stormwater Infiltration Sumps

Continued to construct sumps in the Willamette River Watershed, with a total of 23 sumps installed during the fiscal year. All of the sumps were installed in the various Taggart basins.

Tanner Creek Stream Separation

Continued to work on the various components (Phases 1 through 5) of the Tanner Creek stream separation work. Bids were received for phases 2 and 5; construction will begin in FY 01. Design of the final two phases (3 and 4) will be completed in FY 01/02.

Columbia Slough Program

The following are four of the main projects in the Columbia Slough Program that will capture, store, convey and treat the CSO from the Columbia Slough Basin.

Columbia Slough Consolidation Conduit (CSCC)

The Columbia Slough Consolidation Conduit will interrupt and collect the flow from 10 overflows to the Columbia Slough.

The CSCC has six components of design work (Segments I, 2, 3, 4, 5, & 6). Construction on Segment 5 was completed two years ago. Construction was performed on segments 1, 2, 3, and 6 during the past fiscal year. The overall consolidation conduit project was substantially complete during the past fiscal year. Segment 4-Comminity Benefits was bid during the fiscal year but has no impact on the ASFO requirements.

Columbia Boulevard Wet Weather Treatment Facilities (CBWWTF)

The Columbia Blvd. Wet Weather Treatment Facility (CBWWTF) project consists of construction of new primary clarifiers to treat up to 120 MGD of dry weather flows, modifications of existing primary clarifiers to treat up to 240 MGD of wet weather flows, expansion of the existing chlorination system, modifications of the existing effluent pump station, construction of a new dechlorination facility, modifications of the screen house, odor control, and environmental enhancements as part of the commitment to the local communities.

The CBWWTF has one major design package with seven individual construction packages (Flowmeter Replacement, New Primary Clarifiers, Modification to Wet Weather Primaries, Effluent Pump Station Improvements, CBWTP Chlorination System Improvements, Dechlorination Facility, and Environmental Enhancements). Work was performed on four of the construction packages during the past fiscal year. The Chlorination System Improvement package was completed, the Dechlorination Facility was substantially completed, and construction is progressing in accordance to schedule on the Modification to Wet Weather Primaries and the New Primary Clarifiers.

CBWWTF Influent Pump Station

The Influent Pump Station is intended to lift Combined Sewer Overflows from the Columbia Slough Consolidation Conduit into the plant influent channel. Construction reached substantial completion during the fiscal year. Operational testing is complete.

CBWWTF Outfall

This project constructed a second outfall pipeline/diffuser to expand the peak flow capacity of the Columbia Blvd. Wastewater Treatment Plant outfall system. The project involved connection to the existing 72-inch outfall pipeline. The new pipeline includes underwater crossing of the Columbia Slough; crossing of Hayden Island; connection to the new Hayden Island Dechlorination Facility; and a diffuser in the Columbia River.

The CBWWTF Outfall has one design package and two construction packages (Outfall and Outfall Clear & Grub). The overall project (pipeline, structures, and diffuser) was substantially completed during the past fiscal year and the Clear & Grub construction package was completed.

Willamette River CSO Predesign Project (WRPP)

The WRPP is a 14 task planning and preliminary design project designed to re-evaluate and refine the current CSO control plan for the Willamette River Basin. The project has the following tasks:

- S1 Stakeholders Task Force Support (100)
- S2 Public Outreach Activities (95)
- S3 Willamette River Basin Activities (100)
- M1 M/W/ESB Support Activities (95
- T1 CSO Pollutant Characterization (95)
- T2 Regulatory Issues and Permitting (95)
- T3 Water Quality Impact Evaluations (95)
- T4 Green Solutions and Inflow Controls (100)
- T5 Collection System Optimization (90)
- T6 Overflow Treatment Strategy (100)
- T7 Identification of Integrated Control Alternatives (95)
- T8 Evaluation of Integrated Control Alternatives (95)
- T9 Predesign of Selected CSO Control Plan (70)
- T10 Project Management (85)

Work was performed on all tasks during the fiscal year with the exception of **T4** and **T6** which were completed during fiscal year 98/99. The values in parenthesis after each task description are the total percent complete at the end of the fiscal year. Overall the project was estimated to be 80 percent complete at the end of the fiscal year based on the work completed to date.

D. CSO Operation and Maintenance Activities

During the year the City continued implementation of operation and maintenance practices that reduced the impact of CSOs on the receiving streams. Although the following represents the citywide effort, the majority of this work was performed within the CSO area:

Sewer Cleaning Catch Basin/Inlet Cleaning Drainage Sump Cleaning Street Sweeping 130 miles 18,478 units cleaned 1,416 units cleaned 54,463 curb miles

E. Public Involvement Activities

CSO Program public involvement activities were expanded in FY 99/00 to meet the needs of individual projects identified by the Willamette CSO Predesign Project. As projects move from design to construction, the goals listed below are met through the public involvement activities:

- **Goal 1:** Inform and involve residents and businesses within the proposed alignment area and the broader public about key issues, including, alignment, construction schedules and traffic plans.
- Goal 2: Develop and maintain good working relationships between the public and project team members.
- Goal 3: Meet design and construction timelines and minimize community impacts.
- Goal 4: Respond to individual citizen or business concerns within 24 hours.
- Goal 5: Help complete projects on time and within budget.

Public involvement plans have been developed for each CSO project. The Columbia Slough projects have successfully involved citizens in project designs and decisions. The CBWTP Citizen Advisory Committee (CAC) met and provided input to CSO projects during the year. Several of the CAC members served on the Conduit Steering Committee and the Outfall Advisory Committee which provided input to outfall design and construction. Citizens provided input to the Columbia Slough Consolidation Conduit (CSCC) and the CBWWTF Outfall Project which are now constructed and will be fully operational by December 2000.

Outreach activities began in FY 99/00 for Willamette River CSO Projects. These projects include the: Westside Stream Diversion, Southwest Parallel Interceptor, Ankeny Pump Station, Westside CSO Tunnel, Northwest CSO Pump Station, Northwest CSO Force Main, California Pump Station Upgrade, Cheltenham Storage, and Tanner Creek Stream Diversion.

Outreach activities were conducted during predesign, design and construction of these projects to provide businesses, residents and neighborhood groups with project information and opportunities to give input on project decisions, including: pipe alignment, construction mitigation measures and traffic plans. These activities are tailored to the needs of and impact to area communities and have included:

- Databases developed for 11 projects and containing over 30,630 residents and businesses. They helped keep business and residential property owners, neighborhood, business and tenants associations and other stakeholder organizations within the project area informed about the project.
- Project Fact Sheets developed for 5 projects and distributed to over 26,060 citizens and businesses provided an overview of the CSO program, background information on the project, the purpose of the design and construction phases and a mail in feedback form to solicit community input.
- Community Presentations provided for 8 neighborhood, business and tenant associations as well as to other key stakeholder groups within the project area to provide an overview of the CSO program, the project and design and construction issues.
- Public Meetings held 9 times during the design and construction phase of the project that
 provided more detailed information on the recommended alignment and solicited concerns
 and ideas regarding the project.
- Site Visits conducted with 80 businesses and residents along construction routes and within the project area to resolve design and construction issues. These issues include business and residential access, parking, construction hours and issues and traffic management.
- Watershed Walks and Tours to provide citizens with a better understanding of the CSO
 program and how citizens can help protect Portland watersheds. Over the past year, five
 watershed walks and two river tours were attended by 100 citizens.

In addition to involving impacted communities in CSO project decisions, the Bureau is committed to educating the public about environmental issues.

- Educational Presentations focusing on water quality issues were provided to Portland schools and community groups. Environmental Educators made over 400 presentations. A special Combined Sewer Overflow presentation is available for students in grades 6 to 12. Students learn the history of the CSO problem, talk about solutions, and discuss how to pay for improvements. More than 8,200 students were contacted with information about river pollution problems during the fiscal year.
- Water Quality Display has been developed in partnership with OMSI. This plastic model
 physically shows (with the use of water) how overflows actually occur. The Clean River
 Quest computer game and a computer kiosk are still used by schools and community groups.
 The kiosk is located at OMSI.
- Educational Tours of the Willamette river have been provided to classrooms and youth groups who have received educational presentations and learned about the City's CSO program.

The City also has an ongoing public information program that provides CSO program information to the general public.

- Public Notification/River Alert Program includes 55 CSO identification signs indicate where outfall pipes are located. It also includes 14 folding signs with the message "WARNING: SEWAGE" The folding signs are opened and closed every time there is an overflow from May 15 to October 15 each year. During the winter months, the signs remain open with the message in view for boaters and other river users. The River Alert program notifies the media (by fax) every time there is an overflow from May 15 to October 15. The Oregonian newspaper publishes an overflow icon on the top of the weather page when overflows occur. In addition, 5 CSO warning signs on the Columbia Slough remain open year round.
- Clean River Works Construction Signage requires contractors to develop and post signage at any sewer system-related construction site with the Clean River Works message to inform the public that the construction is a sewer project designed to keep our rivers and streams clean.
- Media Relations to gain media coverage of CSO projects. Media advisories, news releases
 and media events are used to alert the media about CSO projects. Individual briefings are
 also held with reporters. The City provides timely, accurate responses to all media requests
 and keeps files of all newsprint and broadcast media coverage. This past year, 15 media
 notifications regarding the combined sewer overflow programs were released. Eleven were
 related to actual combined sewer overflows during the summer notification period.
- Bill Inserts were enclosed in water/sewer bills to provide 165,000 residential customers with information about the combined sewer overflow program.
- Web Site (www.enviro.ci.portland.or.us) provided current information about the City's CSO programs to the general public.

V. Planned Efforts for Current Fiscal Year

The current fiscal year's efforts cover the period July 1,2000, through June 30, 2001. The work planned for the fiscal year will focus on continued implementation of the Cornerstone Projects throughout the CSO area, the start-up of the control facilities for control of the Columbia Slough CSO's, and the pre-design of the control facilities for the Willamette River Basin. The current year's work is divided into the same five subsections used for the previous year's efforts.

A. ASFO Milestones to be Achieved

The current fiscal year contains one major milestone; "eliminate all untreated CSO discharges to the Columbia Slough, subject to the storm return frequencies specified in Paragraph 12.a. of the Amended Order, by no later than December 1, 2000." Additionally, the submittal of this CSO

Progress Report is required. An additional requirement that may fall within the fiscal year is "The respondent shall report to the Commission in a public forum its progress for CSO reductions as outlined in paragraph 23, above, at a time established by the Commission and the Respondent in the years 2001 ...".

B. Program Planning to be Accomplished

Program level planning will continue during the current fiscal year. The activities that will directly impact the CSO Program include:

- Continue work on the WRPP. All remaining tasks of the WRPP (see Section IV.C) will be completed during the fiscal year. At the project's completion a predesign report will be issued describing the current Willamette River basin CSO control plan.
- Develop and submit an update to the CSO Facilities Plan as identified in Paragraph 21 of the ASFO. The update will incorporate the WRPP recommendations regarding the Willamette River basin CSO control plan, and update Chapter 8, Implementation Plan.
- The Clean River Plan (CRP) that was published in FY2000 identifies several approaches for improving water quality within the city's portion of the Willamette River Watershed. During the current fiscal year, in support of the CRP, the city will continue evaluating the performance of several stormwater inflow control techniques for reducing flow to the CSO facilities while, also, reducing the likelihood of basement flooding. The city will also continue evaluating the effectiveness of tree canopy as an inflow control and water quality improvement technique.
- Continued planning under the Clean River Plan will develop the methods of removing 500 million gallons or 1600 acres of impervious surface from the East Side combined sewer which overflows to the Willamette River. Accomplishing this goal will reduce the size of tunnel required and lower that capital cost by \$70 million. Projects are expected to include a mix of public and private activities to infiltrate, evaporate or use stormwater so that it does not enter the sewer system. This work is also expected to reduce costs for controlling basement flooding, and to provide benefits to the community environment by adding trees, vegetation and wildlife habitat and lowering air temperatures and air pollution. Other future planning is more specific to tributary restoration and protection needs.

C. CSO Control Projects to be Planned, Designed and/or Constructed

The CSO control projects on which planning, design and/or construction work will be done during the current fiscal year include:

 Continuation of the inflow reduction projects (including stormwater infiltration sump construction, downspout disconnections, stream diversion projects, and sewer separations).

- The pre-design of the CSO control projects for the Willamette River Basin will be completed.
- Design will begin on the CSO control projects for outfalls on the west side of the Willamette River (including the West Side CSO Tunnel, Ankeny Pump Station Upgrade, NW CSO Pump Station, NW CSO Force Main, CBWWTF Headworks expansion, SW Stream Diversion and Tanner Creek Stream Diversion – Phase 3).
- Design work is scheduled to be completed on the SW Parallel Interceptor.

D. CSO Operation and Maintenance Activities Planned

During the current fiscal year the City will continue the implementation of operation and maintenance practices that reduce the impact of CSOs on receiving streams. This Citywide effort will include the following project work:

Sewer Cleaning: Catch Basin/inlet Cleaning: Drainage Sump Cleaning: Street Sweeping: 189 miles19,000 catch basin/inlets1,940sumps/sedimentation manholes55,426 curb miles

E. Public Involvement Activities Planned

The public involvement planned for this year will continue to educate and identify opportunities for Portland residents, businesses and neighborhood groups to participate in CSO and watersheds enhancement projects. The City will continue with previous activities and will expand efforts to increase citizen participation in project decisions, raise awareness about watershed issues and encourage citizens to become stewards for the Portland watershed. The Bureau will work closely with Neighborhood Coalition Offices and Associations to raise awareness about the CSO program, gain active public input on project decisions, and involve more citizens, businesses and neighborhood groups in watershed protection and restoration efforts. This year's activities include:

- Working with citizen committees and work groups to improve CSO project designs and construction plans;
- Developing informational materials that explain CSO projects, time lines, construction mitigation plans and opportunities to develop enhance impacted communities;
- · Conducting watershed walks and boat tours;
- · Recruiting and training volunteers for watershed restoration projects;
- Developing and implementing the Willamette Stormwater Control Program which will
 encourage and provide assistance to commercial and industrial property owners in the
 combined area who are willing remove stormwater from the combined system by creating
 on-site stormwater infiltration facilities. These facilities will use more natural systems like
 swales, wetlands and native vegetation to detain and treat stormwater;
- Providing educational CSO classroom presentations;
- Continuing the CSO River Alert signage and notification program; and

 Distributing a City-wide newsletters and quarterly bill inserts that help inform citizens about the CSO program, watershed restoration activities and how they can help protect Portland watersheds.

Vl. Conclusions

The City continues to make good progress and is on schedule towards the target reduction of CSOs as evident by the above list of accomplishments and the work planned for the current year. This is demonstrated by these specific accomplishments.

- All of the SFO/ASFO milestones have been met on time.
- The City conducted substantial operation and maintenance of the CSO collection system during the past fiscal year to reduce the environmental impact of current CSO discharges, and the City plans to continue with this effort during the current fiscal year.
- The public involvement/public outreach activities will continue to expand and improve the
 public's understanding of the City's combined sewers and the impact of CSO discharges on
 water quality in the Columbia Slough and the Willamette River. The City will involve,
 inform and educate citizens about watershed issues and encourage them to help protect and
 restore Portland waterways through stewardship activities.
- With the interceptor system improvements, diversion structure modifications, and implementation of Cornerstone Projects, the City has eliminated an estimated 3.0 billion gallons/year of CSO from the Columbia Slough and Willamette River. This represents approximately 52% of the total volume of CSO that must be controlled under the conditions of the ASFO.
- The City completed the Clean River Plan during FY 99-00.
- The City is completing all Columbia Slough projects on schedule and is on track to begin
 operation of the Columbia Slough projects in accordance to ASFO requirements before the
 December 1, 2000 deadline.

APPENDIX A

CITY OF PORTLAND - BES CAPITAL IMPROVEMENT PROGRAM CSO IMPLEMENTATION SCHEDULE