APPENDIX 8 – POST-CONSTRUCTION PROJECT WORKSHEET

POST-CONSTRUCTION WORKSHEET FOR THE CITY OF WEST SACRAMENTO PROJECT SUMMARY SHEET

Project Owner Informati	ion:				
Project Owner Name:			45		
Name of Contact Person:					
Mailing Street Address:					
City:		State:		Zip:	
Telephone:			Email:		9
Project Information:					
Project Name:					
Name of Contact Person:					
Project Address:			77.48.2	100	
City:		State:			Zip:
Anticipated construction start date:			Ending date:		
Project size (ft²):			Subject to the Construction General Permit? (Yes / No))	-
Information of the Post-Co.	nstruction Standards Pl	lan Prepa	rer:		
Name of Organization:					
Name of Contact Person:					
Mailing Street Address:					
City:		State:			Zip:
Telephone:	Email:				
Project Applicability:					
Type of Project:	Small Project (2,50)	0 to 5,000	ft ² or detached	d single	e family home)
(Check one)	Regulated Project (5,000 ft²)				
	Not applicable to the Post-Construction Standards Plan				s Plan
	(provide reason in the	space below))		
T. 11. 1 1			Will do		
Is this a redevelopment project? (Yes / No)			Will the project result in an incre	ease	
projecti (168 / 140)			of more than 50°		
			of the impervious surface? (Yes / N		
Has the project or the			Date of proje	ect	
vesting map received			or vesting ma	ıp	
approval from the			approval:		
municipality? (Yes, No, or N/A)					
Describe the nature and					
scope of the construction					
project:					
Number of Drainage Manager	ment Areas (DMAs):				

POST-CONSTRUCTION WORKSHEET FOR THE CITY OF WEST SACRAMENTO SMALL PROJECT SUBMITTAL SHEET

D	4	T C.		4:
Pro	ect	Into	rma	tion:

Project Name:	
Project Owner Name:	
Project Address:	

Selection of Site Design Measures:

Select one or more of the following Site Design Measures (as identified in <u>Section 4.1</u> of the Post-Construction Standards Plan) which will be incorporated into the project's design.

Site Design Measures		Selected? (Yes / No)
Stream Setbacks and Buffers		
Soil Quality Improvement and Maintenance		
Tree Planting and Preservation		
Rooftop and Impervious Area Disconnection		
Porous Pavement		
Green Roofs		, X ⁻¹
Vegetated Swales	All and a second	1
Rain Barrels and Cisterns		

Post-Construction Calculator Information:

Enter the following data from the State's Post-Construction Calculator:

Pre-project Runoff Volume (ft³)	
Post-project Runoff Volume (ft³)	1,
Net Credit of Volume Credits (ft³)	

Small Project Submittal Requirements:

The following must be submitted for Small Projects to the plan checker:

- Completed pages 1 and 2 of this Post-Construction Worksheet.
- Site plans showing the selected Site Design Measure(s) (identified in Section 4.1). The plans must be stamped by a California Civil Professional Engineer if any of the following Site Design Measures were selected: rooftop and impervious area disconnection, porous pavement, or rain cisterns. The plans must be stamped by a California Structural Professional Engineer if a green roof was selected or if there is a significant structural aspect to the rain cisterns and collection system. The plans must be stamped by a California Licensed Landscape Architect if any of the following Site Design Measures were selected: stream setbacks and buffers, soil quality improvement, or vegetated swales. The Site Design Measure(s) must be clearly called out on the submitted plans.
- A printout of the results page from the Water Board's SMARTS or Microsoft ExcelTM Post-Construction Calculator.

POST-CONSTRUCTION WORKSHEET FOR THE CITY OF WEST SACRAMENTO REGULATED PROJECT DMA SUBMITTAL SHEET

Drainage Management Area (DMA) & Project Information:

A <u>separate</u> Regulated Project DMA Submittal Sheet is required to be completed and submitted for each DMA. Refer to <u>Section 5.1</u> of the Post-Construction Standards Plan for more information about DMAs.

Project Name:	
,	
Project Owner Name:	
Project Address:	
Name of the DMA:	
DMA area (ft²)	
Diviri area (it)	

Selection of Applicable Source Controls:

Indicate which of the following activities or pollutant sources are included in this DMA of the new development or redevelopment. For more information about required Source Control refer to Section 5.2.

Site Design Measures	(Yes / No)
Accidental spills or leaks	1
Interior floor drains	
Parking / storage areas and maintenance	
Indoor and structural pest control	
Landscape / outdoor pesticide use	
Pools, spas, ponds, decorative fountains, and other water features	
Restaurants, grocery stores, and other food service operations	
Refuse areas	
Industrial processes	
Outdoor storage of equipment or materials	
Vehicle and equipment cleaning	
Vehicle and equipment repair and maintenance	×
Fuel dispensing areas	
Loading docks	
Fire sprinkler test water	
Drain or wash water from boiler drain lines, condensate drain lines, rooftop equipment, drainage sumps, and other sources	
Unauthorized non-storm water discharges	
Building and grounds maintenance	

Hydrologic Soil Group and Soil Type Information:

Enter information concerning the soil types within this DMA. For more information, refer to <u>Table 7</u> of the Post-Construction Standards Plan.

Soil Type Name	HSG Group (A, B, C, or D)

3	Define the areas of the project that are to be left undisturbed or protected from soil dist sensitive environmental receptors such as water bodies, stream buffers, existing trees, rehabitat areas.	iparian areas, anc
		ľ
	· ·	
L		
3.	3. How is the project limiting the overall impervious coverage of the site consisting of pa	wing and roofs?
H		

4.	If applicable, how much setback is there of the development from creeks, wetlands, and riparian habitats?
5.	List and describe the trees that will be preserved.
6.	Describe how the new development or redevelopment site layout will conform along natural landforms.

Describe how th	ne project is avoi	ding excessive gra	ding and distu	rbance of vege	etation and soils	S.
	1 1 1	11-6	mant is raplica	ting the cite's r	natural drainage	natterns
Describe how t	he new develops	ment or redevelop	ment is replica	ung me sites i	iaturai drainage	Patterne
*						
			cc. 1 1	.1 1 1		dovolope
	the project will o	detain and retain r	unoff through	the new deve	opinent and re	developi
site.						
	3					
						*

Pre- and Post-Development Project Hydrology Information:

Provide the following hydrology information for this DMA.

Pre-development Conditions:

Percent Impervious	
Average runoff coefficient for this DMA	
Peak flow rate (ft ³ /sec) for this DMA using the 2-year 24-hour	
design value discussed in Section 5.5.	

Post-development Conditions:

Percent Impervious	
Average runoff coefficient for this DMA	
Peak flow rate (ft ³ /sec) for this DMA using the 2-year 24-hour design value discussed in Section 5.5.	

Selection of Site Design and Treatment Control Measures:

Indicate which Site Design and Treatment Control Measures will be used for this DMA. For more information, refer to Table 3. Provide calculations and design drawings for the selected measures per the submittal requirements describe in Section 5.6.

Site Design or Treatment Control Measure	Sizing Criteria	Selected? (Yes / No)	Enter the Calculated Design Capture Volume or Flow Rate for the Selected Measure
Stream setbacks and vegetated buffers	Flow		
(Site Design Measure)			
Soil quality improvement	Volume		
(Site Design Measure)			
Tree planting and preservation	SMARTS		
(Site Design Measure)	Calculator		
Porous pavement	Volume		
(Site Design Measure)			
Green roofs	Volume		
(Site Design Measure)			
Vegetated swales	Flow		
(Site Design Measure)			
Rain harvesting and reuse	Volume		
(Site Design Measure)			
Bioretention and rain gardens	Volume		
(Treatment Control Measure)			
Infiltration trench, Flow-through Planter, or Tree Wells	Volume		
(Treatment Control Measure)	and Flow		
Retention and detention basins	Volume		
(Treatment Control Measure)			

Variations and Exceptions:

Identify any applicable variations or exceptions for this DMA.

Condition	Allowed Variation	Applicable to this DMA? If so, explain.
Facilities located within 10 feet of structures or other potential geotechnical hazards established by the geotechnical expert for the project	May incorporate an impervious cutoff wall between the bioretention / infiltration facility and the structure or other geotechnical hazard	
Facilities with documented high concentrations of pollutants in underlying soil or groundwater, facilities located where infiltration could contribute to a geotechnical hazard, and facilities located on elevated plazas or other structures	May incorporate an impervious liner and may locate the underdrain discharge at the bottom of the subsurface drainage/storage layer (this configuration is commonly known as a "flow-through planter")	
Facilities located in areas of high groundwater, highly infiltrative soils or where connection of underdrain to a surface drain or to a subsurface storm drain are infeasible	May omit the underdrain	
Facilities serving high-risk areas such as fueling stations, truck stops, auto repairs, and heavy industrial sites	Are required to provide additional treatment to address pollutants of concern prior to the flow reaching the infiltration facility	

Regulated Project Submittal Requirements:

The following must be submitted for Regulated Projects to the plan checker:

- The completed Post-Construction Worksheet including page 1 and, for each DMA, pages 3 10.
- A separate site plan for each DMA must be submitted. If there are multiple DMAs, a key map showing
 the location of the DMAs in relationship to one another and the entire site is required to be submitted.
 Each DMA site plan is required to show the following information:
 - ✓ DMA name and boundary;
 - ✓ The selected Site Design and Treatment Control Measures (identified in <u>Table 3</u>);
 - ✓ The total drainage area in square feet of the DMA;
 - √ The pre-development peak flow rate at the point(s) of discharge;
 - √ The predicted post-development peak flow rate at the point(s) of discharge;
 - ✓ Areas of existing impervious surfaces (pre-development);
 - ✓ Proposed areas of impervious surfaces (post-development);
 - ✓ Setbacks from creeks, wetlands, and riparian habitats;
 - ✓ Existing topography and drainage patterns (pre-development);
 - ✓ Proposed topography and drainage patterns (post-development);
 - ✓ Soil types, soil type boundaries within the DMA, and their Hydrologic Soil Group Classification rating (A, B, C, or D); and
 - ✓ Trees, vegetation, and sensitive environmental areas to be protected and preserved.

Each plan must be stamped by a qualified licensed professional. The plans must be stamped by a California Civil Professional Engineer if any of the following control measures were selected: rooftop and impervious area disconnection, porous pavement, rain cisterns, bioretention or rain gardens, infiltration trench, or retention or detention basins. The plans must be stamped by a California Structural Professional Engineer if a green roof was selected or if there is a significant structural aspect to the rain cisterns and collection system. The plans must be stamped by a California licensed Landscape Architect if any of the following Site Design Measures were selected: stream setbacks and buffers, soil quality improvement, vegetated swales, bioretention and rain gardens. The selected Site Design and Treatment Control Measure(s) must be clearly called out on the submitted plans.

• Design drawings for the proposed Treatment Control Measures showing a plan view, elevation view, and subsurface cross-sections must be submitted. Sufficient detail and specifications should be included in these drawings to provide for adequate plan check review and for the construction of the treatment "facility". Each design drawing must be stamped by a qualified licensed professional. The drawings must be stamped by a California Civil Professional Engineer if any of the following control measures were selected: rooftop and impervious area disconnection, porous pavement, rain cisterns, bioretention or rain gardens, infiltration trench, or retention or detention basins. The drawings must be stamped by a California Structural Professional Engineer if a green roof was selected or if there is a significant structural aspect to the rain cisterns and collection system. The drawings must be stamped by a California licensed Landscape Architect if any of the following Site Design Measures were selected: stream setbacks and buffers, soil quality improvement, vegetated swales, bioretention and rain gardens.

- A print out of the results page from the MS ExcelTM Volumetric BMP Sizing Tool for each DMA and control measure that requires the volumetric sizing criteria is required to be submitted. (Refer to <u>Appendix 6</u> for information on how to download the tool.)
- Calculations stamped by the appropriate licensed individual (as described above) for each DMA and control
 measure that requires flow-based sizing criteria must be included with the submittal.
- An Operation and Maintenance Plan and signed Statement of Responsibility for the proposed treatment control measures must accompany the submittal (refer to <u>Section 6</u> and <u>Appendix 9</u>).

APPENDIX 9 – O&M PLAN AND CERTIFICATE OF RESPONSIBILITY FORM