County of San Diego PRIORITY DEVELOPMENT PROJECT (PDP) SWQMP

OTAY 250, TM FOR TRACT 5607 PDS 2015 - SPA-15-001

> 9300 Otay Mesa Road Otay, CA

ASSESSOR'S PARCEL NUMBER(S): 646-080-26 TO 29, 646-080-31 TO 33, 646-240-30, 646-310-17

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DATE OF SWQMP: December 12, 2016

PLANS PREPARED BY: STEVENS CRESTO ENGINEERING, INC. 9665 CHESAPEAKE DR. SAN DIEGO, CA 92123 858-694-5660

SWQMP APPROVED BY:

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APPROVAL DATE:



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Template Date: March 16, 2016

LUEG:SW PDP SWQMP

Preparation Date: 12/12/2016

Table of Contents

Table of Cont	ents	ii
Attachments		i\
Acronyms		i\
PDP SWQMP	Preparer's Certification Page	٠١
Submittal Rec	ord	vi
Project Vicinit	у Мар	vii
Step 1: Pro	oject type determination (Standard or Priority Development Project)	1
Step 1.1:	Storm Water Quality Management Plan requirements	3
Step 1.2:	Exemption to PDP definitions	3
Step 2: Co	nstruction Storm Water BMP Checklist	4
Step 3: Co	unty of San Diego PDP SWQMP Site Information Checklist	7
Step 3.1:	Description of Existing Site Condition	7
Step 3.2:	Description of Existing Site Drainage Patterns	8
Step 3.3:	Description of Proposed Site Development	9
Step 3.4:	Description of Proposed Site Drainage Patterns	10
Step 3.5:	Potential Pollutant Source Areas	11
Step 3.6:	Identification and Narrative of Receiving Water and Pollutants of Concern .	12
Step 3.7:	Hydromodification Management Requirements	14
Step 3.7.1	: Critical Coarse Sediment Yield Areas*	15
Step 3.7.2	2: Flow Control for Post-Project Runoff*	16
Step 3.8:	Other Site Requirements and Constraints	17
Step 4: Sou	urce Control BMP Checklist	18
Step 5: Site	e Design BMP Checklist	20
Step 6: PD	P Structural BMPs	22
Step 6.1:	Description of structural BMP strategy	22
Step 6.2:	Structural BMP Checklist	24
Step 6.3:	Offsite Alternative Compliance Participation Form	25

Template Date: March 16, 2016

Attachments

Attachment 1: Backup for PDP Pollutant Control BMPs

Attachment 1a: Storm Water Pollutant Control Worksheet Calculations

Attachment 1b: DMA Exhibit

Attachment 1c: Individual Structural BMP DMA Mapbook Attachment 2: Backup for PDP Hydromodification Control Measures

Attachment 2a: Flow Control Facility Design

Attachment 2b: Hydromodification Management Exhibit

Attachment 2c: Management of Critical Coarse Sediment Yield Areas Attachment 2d: Geomorphic Assessment of Receiving Channels (optional)

Attachment 2e: Vector Control Plan (if applicable)

Attachment 3: Structural BMP Maintenance Plan

Attachment 3a: Structural BMP Maintenance Thresholds and Actions

Attachment 3b: Draft Maintenance Agreements / Notifications(when applicable)

Attachment 4: County of San Diego PDP Structural BMP Verification for DPW Permitted Land Development Projects

Attachment 5: Copy of Plan Sheets Showing Permanent Storm Water BMPs

Attachment 6: Copy of Project's Drainage Report

Attachment 7: Copy of Project's Geotechnical and Groundwater Investigation Report

Acronyms

ACP Alternative Compliance Project
APN Assessor's Parcel Number
BMP Best Management Practice

BMP DM Best Management Practice Design Manual HMP Hydromodification Management Plan

HSG Hydrologic Soil Group

MS4 Municipal Separate Storm Sewer System

N/A Not Applicable

NRCS Natural Resources Conservation Service

PDCI Private Development Construction Inspection Section

PDP Priority Development Project

PDS Planning and Development Services

PE Professional Engineer

RPO Resource Protection Ordinance

SC Source Control SD Site Design

SDRWQCB San Diego Regional Water Quality Control Board

SIC Standard Industrial Classification

SWQMP Storm Water Quality Management Plan WMAA Watershed Management Area Analysis

WPO Watershed Protection Ordinance WQIP Water Quality Improvement Plan

Template Date: March 16, 2016

LUEG:SW PDP SWQMP

Preparation Date: 12/12/2016

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PDP SWQMP Preparer's Certification Page

Project Name: OTAY 250, TM FOR TRACT 5607 Permit Application Number: PDS 2015 – SPA-15-001

PREPARER'S CERTIFICATION

I hereby declare that I am the Engineer in Responsible Charge of design of storm water best management practices (BMPs) for this project, and that I have exercised responsible charge over the design of the BMPs as defined in Section 6703 of the Business and Professions Code, and that the design is consistent with the PDP requirements of the County of San Diego BMP Design Manual, which is a design manual for compliance with local County of San Diego Watershed Protection Ordinance (Sections 67.801 et seq.) and regional MS4 Permit (California Regional Water Quality Control Board San Diego Region Order No. R9-2013-0001 as amended by R9-2015-0001 and R9-2015-0100) requirements for storm water management.

I have read and understand that the County of San Diego has adopted minimum requirements for managing urban runoff, including storm water, from land development activities, as described in the BMP Design Manual. I certify that this PDP SWQMP has been completed to the best of my ability and accurately reflects the project being proposed and the applicable BMPs proposed to minimize the potentially negative impacts of this project's land development activities on water quality. I understand and acknowledge that the plan check review of this PDP SWQMP by County staff is confined to a review and does not relieve me, as the Engineer in Responsible Charge of design of storm water BMPs for this project, of my responsibilities for project design.

NOTE: The current CEQA level PDP SWQMP is in conformance with the MS4 permit. Prior to approval of Final Improvement/Grading plans, an updated PDP SWQMP will be provided that has final engineering level calculations which meet the MS4 permit requirements to the satisfaction of the County of San Diego. Due to the limitations with the BMP Sizing Spreadsheet tool and its applicability for portions of this project, the BMP Sizing Spreadsheet calculations included in this PDP SWQMP are intended to demonstrate feasibility for CEQA Level only and are not to be used for final BMP design and therefore Continuous Simulation Modeling is to be provided at final engineering.

Engineer of Work's Signature, PE Number &	Expiration Date	PROFESSION A
Bryan T. Hill Print Name		SE SEVAN 7. AUT SEE
Stevens Cresto Engineering, Inc.		C 69339
Company 12/12/16	Engineer's Seal:	S CIVIL WE
Date	Engineer 3 Geat.	PIEOFCALIFORM

Template Date: March 16, 2016 Preparation Date: 12/12/2016

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Template Date: March 16, 2016 Preparation Date: 12/12/2016 LUEG:SW PDP SWQMP

Submittal Record

Use this Table to keep a record of submittals of this PDP SWQMP. Each time the PDP SWQMP is re-submitted, provide the date and status of the project. In column 4 summarize the changes that have been made or indicate if response to plancheck comments is included. When applicable, insert response to plancheck comments behind this page.

Preliminary Design / Planning / CEQA

Submittal Number	Date	Summary of Changes
1	07/16/15 (SWMP)	Initial Submittal
2	01/20/16 (SWMP)	Revision
3	04/08/16 (SWQMP)	Revision
4	08/23/16 (SWQMP) 12/12/16 (SWQMP)	Revision Revision

Final Design

Submittal Number	Date	Summary of Changes
1		Initial Submittal
2		
3		
4		

Plan Changes

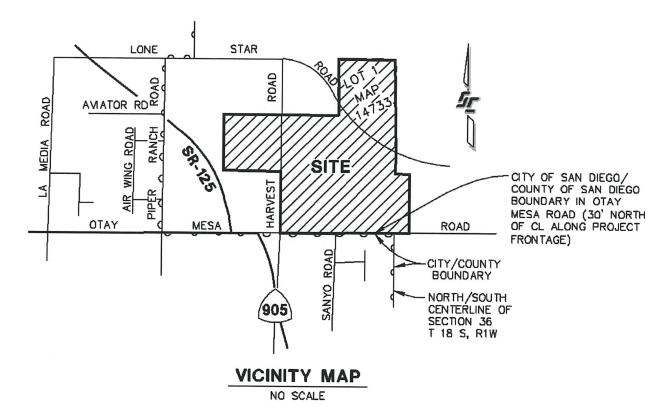
Submittal Number	Date	Summary of Changes
1		Initial Submittal
2		
3		
4		

Template Date: March 16, 2016 Preparation Date: 12/12/2016

Project Vicinity Map

Project Name: Otay 250

Record ID: PDS 2015 - SPA-15-001



Template Date: March 16, 2016 LUEG:SW PDP SWQMP Preparation Date: 12/12/2016

Step 1: Project type determination (Standard or Priority Development Project)

	Is the project part of another Priority Development Project (PDP)? (☐ Yes ☒ No				
If so, a PDP SWQMP is required. Go to Step 2.					
	The project is (select one): ⊠ New Development □ Redevelopment¹				
The t	otal pro	pose	d newly created or replaced impervious area is:	1,215,341 ft ²	
			(pre-project) impervious area is:	0 ft ²	
			turbed by the project is:	8,799,120 ft ²	
comm must	non pla be obta	n of d ained	sturbed by the project is 1 acre (43,560 sq. ft.) or more OR the project evelopment disturbing 1 acre or more, a Waste Discharger Identification from the State Water Resources Control Board. ROVIDED AT FINAL ENGINEERING	ect is part of a larger cation (WDID) number	
Is the	projec	t in ar	ny of the following categories, (a) through (f)? ²		
Yes	No	(a)	New development projects that create 10,000 square feet or more ³ (collectively over the entire project site). This includes commercia mixed-use, and public development projects on public or private la	al, industrial, residential,	
Yes	No ⊠	(b)	Redevelopment projects that create and/or replace 5,000 square feet or more of impervious surface (collectively over the entire project site on an existing site of 10,000 square feet or more of impervious surfaces). This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land.		
Yes ⊠	No	(c)	New and redevelopment projects that create and/or replace 5,000 impervious surface (collectively over the entire project site), and sith efollowing uses: (i) Restaurants. This category is defined as a facility that sell drinks for consumption, including stationary lunch counter stands selling prepared foods and drinks for immediate condustrial Classification (SIC) code 5812). (ii) Hillside development projects. This category includes devenatural slope that is twenty-five percent or greater. (iii) Parking lots. This category is defined as a land area or far parking or storage of motor vehicles used personally, for locommerce. (iv) Streets, roads, highways, freeways, and driveways. This any paved impervious surface used for the transportation motorcycles, and other vehicles.	upport one or more of as prepared foods and as and refreshment onsumption (Standard elopment on any acility for the temporary ousiness, or for category is defined as	

Template Date: March 16, 2016 LUEG:SW PDP SWQMP

Redevelopment is defined as: The creation and/or replacement of impervious surface on an already developed site. Examples include the expansion of a building footprint, road widening, the addition to or replacement of a structure, and creation or addition of impervious surfaces. Replacement of impervious surfaces includes any activity that is not part of a routine maintenance activity where impervious material(s) are removed, exposing underlying soil during construction. Redevelopment does not include routine maintenance activities, such as trenching and resurfacing associated with utility work; pavement grinding; resurfacing existing roadways; new sidewalks construction; pedestrian ramps; or bike lanes on existing roads; and routine replacement of damaged pavement, such as pothole repair.

Applicants should note that any development project that will create and/or replace 10,000 square feet or more of impervious surface (collectively over the entire project site) is considered a new development.

For solar energy farm projects, the area of the solar panels does not count toward the total impervious area of the site.

Project type determination (continued)

Var	I NI-	(-1)			
Yes	No ⊠	(d)	New or redevelopment projects that create and/or replace 2,500 square feet or more of impervious surface (collectively over the entire project site), and discharging directly to		
			an Environmentally Sensitive Area (ESA). "Discharging directly to" includes flow that is		
			conveyed overland a distance of 200 feet or less from the project to the ESA, or		
			conveyed in a pipe or open channel any distance as an isolated flow from the project to		
			the ESA (i.e. not commingled with flows from adjacent lands).		
			Note: ESAs are areas that include but are not limited to all Clean Water Act Section		
			303(d) impaired water bodies; areas designated as Areas of Special Biological		
			Significance by the State Water Board and San Diego Water Board; State Water		
			Quality Protected Areas; water bodies designated with the RARE beneficial use by		
			the State Water Board and San Diego Water Board; and any other equivalent		
			environmentally sensitive areas which have been identified by the Copermittees.		
Yes	No	(e)	See BMP Design Manual Section 1.4.2 for additional guidance. New development projects, or redevelopment projects that create and/or replace 5,000		
		(0)	square feet or more of impervious surface, that support one or more of the following		
			uses:		
			(i) Automotive repair shops. This category is defined as a facility that is categorized		
			in any one of the following SIC codes: 5013, 5014, 5541, 7532-7534, or 7536-		
			7539.		
			(ii) Retail gasoline outlets (RGOs). This category includes RGOs that meet the		
			following criteria: (a) 5,000 square feet or more or (b) a projected Average Daily		
			Traffic (ADT) of 100 or more vehicles per day.		
Yes	No	(f)	New or redevelopment projects that result in the disturbance of one or more acres of land		
\boxtimes			and are expected to generate pollutants post construction.		
			Note: See BMP Design Manual Section 1.4.2 for additional guidance.		
D					
			neet the definition of one or more of the Priority Development Project categories (a)		
	gh (f) lis				
 □ No – the project is <u>not</u> a Priority Development Project (Standard Project). ☑ Yes – the project is a Priority Development Project (PDP). 					
△ TE	3S — trie	proje	ect is a Priority Development Project (PDP).		
Furthe	r guidar	nce ma	ay be found in Chapter 1 and Table 1-2 of the BMP Design Manual.		
The fo	ollowing	is fo	r redevelopment PDPs only:		
			· · · · · · · · · · · · · · · · · · ·		
The a	rea of e	existin	g (pre-project) impervious area at the project site is: N/A ft² (A)		
The total proposed newly created or replaced impervious area is N/A ft² (B)					
Percent impervious surface created or replaced (B/A)*100: N/A %					
The percent impervious surface created or replaced is (select one based on the above calculation):					
☐ less than or equal to fifty percent (50%) – only newly created or replaced impervious areas are					
considered a PDP and subject to stormwater requirements OR					
L			an fifty percent (50%) – the entire project site is considered a PDP and subject to ter requirements		
	310	iiivva	tor requirements		

Template Date: March 16, 2016 Preparation Date: 12/12/2016

Step 1.1: Storm Water Quality Management Plan requirements

Step	Answer	Progression
Is the project a Standard Project,	☐ Standard	Standard Project requirements apply, including
Priority Development Project (PDP), or	Project	Standard Project SWQMP.
exception to PDP definitions?	_	Complete Standard Project SWQMP.
To answer this item, complete Step 1	⊠ PDP	Standard and PDP requirements apply,
Project Type Determination Checklist		including PDP SWQMP.
on Pages 1 and 2, and see PDP		Complete PDP SWQMP.
exemption information below.		
For further guidance, see Section 1.4	☐ PDP with	If participating in offsite alternative compliance,
of the BMP Design Manual in its entirety.	ACP	complete Step 6.3 and an ACP SWQMP.
entirety.		
	☐ PDP	Go to Step 1.2 below.
	Exemption	

Step 1.2: Exemption to PDP definitions

Step 1.2.	Exemption to PDP definitions	
Is the project following:	exempt from PDP definitions based on either of the	If so:
lanes (i) (ii)	cts that are only new or retrofit paved sidewalks, bicycle s, or trails that meet the following criteria: Designed and constructed to direct storm water runoff to adjacent vegetated areas, or other non-erodible permeable areas; OR Designed and constructed to be hydraulically disconnected from paved streets or roads [i.e., runoff from the new improvement does not drain directly onto paved streets or roads]; OR Designed and constructed with permeable pavements or surfaces in accordance with County of San Diego Guidance on Green Infrastructure;	Standard Project requirements apply, AND any additional requirements specific to the type of project. County concurrence with the exemption is required. Provide discussion and list any additional requirements below in this form. Complete Standard Project SWQMP
alleys accor	cts that are only retrofitting or redeveloping existing paved s, streets or roads that are designed and constructed in dance with the County of San Diego Guidance on Green structure.	Complete Green Streets PDP Exempt SWQMP.
Discussion / jus N/A	stification, and additional requirements for exceptions to PDP	definitions, if applicable:
		1,

Template Date: March 16, 2016 Preparation Date: 12/12/2016

⊠Yes

□ No

Step 2: Construction Storm Water BMP Checklist

Minimum Required Standard Construction Storm Water BMPs If you answer "Yes" to any of the questions below, your project is subject to Table 1 on the following page (Minimum Required Standard Construction Stormwater BMPs). As noted in Table 1, please select at least the minimum number of required BMPs, or as many as are feasible for your project. If no BMP is selected, an explanation must be given in the box provided. The following questions are intended to aid in determining construction BMP requirements for your project. Note: All selected BMPs below must be included on the BMP plan incorporated into the construction plan sets. 1. Will there be soil disturbing activities that will result in exposed soil areas? ⊠Yes □No (This includes minor grading and trenching.) Reference Table 1 Items A, B, D, and E Note: Soil disturbances NOT considered significant include, but are not limited to, change in use, mechanical/electrical/plumbing activities, signs, temporary trailers, interior remodeling, and minor tenant improvement. 2. Will there be asphalt paving, including patching? ⊠Yes □No Reference Table 1 Items D and F ⊠Yes \square No ⊠Yes □No

3. Will there be slurries from mortar mixing, coring, or concrete saw cutting? Reference Table 1 Items D and F 4. Will there be solid wastes from concrete demolition and removal, wall construction, or form work? Reference Table 1 Items D and F 5. Will there be stockpiling (soil, compost, asphalt, concrete, solid waste) for over ⊠Yes □No 24 hours? Reference Table 1 Items D and F 6. Will there be dewatering operations? □Yes $\boxtimes N_0$ Reference Table 1 Items C and D 7. Will there be temporary on-site storage of construction materials, including ⊠Yes □No mortar mix, raw landscaping and soil stabilization materials, treated lumber, rebar, and plated metal fencing materials? Reference Table 1 Items E and F 8. Will trash or solid waste product be generated from this project? ⊠Yes □No Reference Table 1 Item F 9. Will construction equipment be stored on site (e.g.: fuels, oils, trucks, etc.?) ⊠Yes □No

10. Will Portable Sanitary Services ("Porta-potty") be used on the site?

Template Date: March 16, 2016 Preparation Date: 12/12/2016

LUEG:SW PDP SWQMP

Reference Table 1 Item F

Reference Table 1 Item F

Table 1. Construction Storm Water BMP Checklist

Minimum Required Best Management Practices (BMPs) A. Select Erosion Control Methological	CALTRANS SW Handbook ⁴ Detail or County Std. Detail d for Disturbed S	BMP Selected	Reference sheet No.'s where each selected BMP is shown on the plans. If no BMP is selected, an explanation must be provided. se at least one for the appropriate
Vegetation Stabilization	SS-2, SS-4	\boxtimes	N/A for Tentative Map, will be
Planting ⁵ (Summer) Hydraulic Stabilization	SS-4		included on construction drawings.
Hydroseeding ² (Summer)	33-4		
Bonded Fiber Matrix or Stabilized Fiber Matrix ⁶ (Winter)	SS-3		
Physical Stabilization Erosion Control Blanket ³ (Winter)	SS-7		
B. Select erosion control method	d for disturbed fla	t areas (slop	oe < 5%) (choose at least one)
County Standard Lot Perimeter Protection Detail	PDS 659 ⁷ , SC-2		N/A for Tentative Map, will be included on construction drawings.
Will use erosion control measures from Item A on flat areas also	SS-3, 4, 7		and wings.
County Standard Desilting Basin (must treat all site runoff)	PDS 660 ⁸ , SC-2		
Mulch, straw, wood chips, soil application	SS-6, SS-8		

State of California Department of Transportation (Caltrans). 2003. Storm Water Quality Handbooks, Construction Site Best Management Practices (BMPs) Manual. March. Available online at: http://www.dot.ca.gov/hq/construc/stormwater/manuals.htm.

If Vegetation Stabilization (Planting or Hydroseeding) is proposed for erosion control it may be installed between May 1st and August 15th. Slope irrigation is in place and needs to be operable for slopes >3 feet. Vegetation must be watered and established prior to October 1st. The owner must implement a contingency physical BMP by August 15th if vegetation establishment does not occur by that date. If landscaping is proposed, erosion control measures must also be used while landscaping is being established. Established vegetation must have a subsurface mat of intertwined mature roots with a uniform vegetative coverage of 70 percent of the natural vegetative coverage or more on all disturbed areas.

⁶ All slopes over three feet must have established vegetative cover prior to final permit approval.

County of San Diego, Planning & Development Services. 2012. Standard Lot Perimeter Protection Design System. Building Division. PDS 659. Available online at http://www.sandiegocounty.gov/pds/docs/pds659.pdf.

County of San Diego, Planning & Development Services. 2012. County Standard Desilting Basin for Disturbed Areas of 1 Acre or Less Building Division. PDS 659. Available online at http://www.sandiegocounty.gov/pds/docs/pds660.pdf.

Table 1. Construction Storm Water BMP Checklist (continued)

CALTRANS Reference sheet No.'s where each						
	SW Handbook		selected BMP is shown on the			
Minimum Required	Detail or	~	plans.			
Best Management Practices	County Std.	BMP	If no BMP is selected, an			
(BMPs)	Detail	Selected	explanation must be provided.			
C. If runoff or dewatering operat dissipater	ion is concentrate	ed, velocity	must be controlled using an energy			
Energy Dissipater Outlet	SS-10	\boxtimes	N/A for Tentative Map, will be			
Protection ⁹		_	included on construction drawings.			
D. Select sediment control meth	od for all disturbe	ed areas (ch	oose at least one)			
Silt Fence	SC-1	⊠ `	N/A for Tentative Map, will be			
Fiber Rolls (Straw Wattles)	SC-5	\boxtimes	included on construction drawings.			
Gravel & Sand Bags	SC-6 & 8	\boxtimes				
Dewatering Filtration	NS-2					
Storm Drain Inlet Protection	SC-10	\boxtimes				
Engineered Desilting Basin	SC-2					
(sized for 10-year flow)						
E. Select method for preventing	offsite tracking o	f sediment (choose at least one)			
Stabilized Construction Entrance	TC-1	\boxtimes	N/A for Tentative Map, will be			
Construction Road Stabilization	TC-2		included on construction drawings.			
Entrance/Exit Tire Wash	TC-3					
Entrance/Exit Inspection & Cleaning Facility	TC-1					
Street Sweeping and Vacuuming	SC-7	\boxtimes				
F. Select the general site manage	ement BMPs		1			
F.1 Materials Management						
Material Delivery & Storage	WM-1	\boxtimes	N/A for Tentative Map, will be			
Spill Prevention and Control	WM-4	\boxtimes	included on construction drawings.			
			•			
F.2 Waste Management ¹⁰						
Waste Management	WM-8	\boxtimes	N/A for Tentative Map, will be			
Concrete Waste Management)A/BA /		included on construction drawings.			
Solid Waste Management	WM-5					
Sanitary Waste Management	WM-9	\boxtimes				
Hazardous Waste Management	WM-6					

Note: The Construction General Permit (Order No. 2009-0009-DWQ) also requires all projects not subject to the BMP Design Manual to comply with runoff reduction requirements through the implementation of post-construction BMPs as described in Section XIII of the order.

Regional Standard Drawing D-40 – Rip Rap Energy Dissipater is also acceptable for velocity reduction.

Not all projects will have every waste identified. The applicant is responsible for identifying wastes that will be onsite and applying the appropriate BMP. For example, if concrete will be used, BMP WM-8 must be selected.