



County of San Diego
Stormwater Quality Management Plan (SWQMP)
For Standard Projects

Use for all Standard Projects (see Storm Water Intake Form, Part 5)



Standard Project

Project Information	
Project Name	JVR Energy Park
Project Address	Old Highway 80, California
Assessor's Parcel # (APN)	614-110-04, 614-100-20, 614-100-21, 660-170-09, 660-150-04, 660-150-07, 660-150-08, 660-150-10, 660-150-14, 660-150-16, 660-150-17, 660-150-18, 660-150-21, 660-140-06, 660-140-08, 660-020-05, 660-020-06, 661-060-12, 661-060-22, 661-010-02, 661-010-15, 661-010-26, 661-010-27, 661-010-30
Permit # / Record ID	PDS2019-LDGRMJ-30240

Project Applicant / Project Proponent	
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SWQMP Preparer	
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PE Number (if applicable)	78103

Preparer's Certification

I 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 County of San Diego BMP Design Manual. The BMP Design Manual 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 Order No. R9-2015-0001 and Order No. R9-2015-0100) requirements for storm water management.

This SWQMP is intended to comply with applicable requirements of the BMP Design Manual. I certify that it 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 SWQMP by County staff is confined to a review and does not relieve me as the person in charge of overseeing the selection and design of storm water BMPs for this project, of my responsibilities for project design.

Signature		Date 1/17/2020
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COUNTY ACCEPTED	
SWQMP Approved By:	Approval Date:
* Note* Approval does not constitute compliance with regulatory requirements.	

Table 1 – Baseline BMPs for Existing and Proposed Site Features

Site Features	BMP Implementation					
Select each feature that applies.	Describe BMP implementation for each selected site feature.					
Group 1: Existing Natural Site Features [See BMPDM Sections 4.3.1 and 4.3.2]						
	Maintain & conserve natural features (SD-G)		Establish buffers for waterbodies (SD-H)			
	Full	Partial	Full	Partial		
<input checked="" type="checkbox"/> Natural waterbodies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Natural storage reservoirs & drainage corridors	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
<input checked="" type="checkbox"/> Natural areas, soils, & vegetation (incl. trees)	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Group 2: Common Impervious Outdoor Site Features [See BMPDM Sections 4.3.3 and 4.3.5]						
	Disperse impervious areas (SD-B)		Use permeable materials (SD-D)	Minimize impervious areas (SD-I)		
	Full	Partial	Full	Partial		
<input checked="" type="checkbox"/> Streets and roads	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Check here to confirm that impervious surfaces have been minimized where applicable and feasible for all outdoor impervious areas. If not, explain in Table 4.	
<input type="checkbox"/> Sidewalks & walkways	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Parking areas & lots	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Driveways	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> Patios, decks, & courtyards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> Hardcourt recreation areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Group 3: Other Outdoor Site Features [See BMPDM Sections 4.2.6, 4.3.4, 4.3.5, 4.3.7, and 4.3.8]						
<input type="checkbox"/> Rooftop areas	Disperse rooftop runoff (SD-B)		Install green roofs (optional; SD-C)		Use rain barrels to capture runoff (optional; SD-E)	
	Full	Partial	Full	Partial	Full	Partial
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Landscaped areas	Use water-efficient landscaping (SD-J)		Install efficient irrigation systems (SD-K)		Minimize erosion of slopes and surfaces (SD-L)	
	Full	Partial	Full	Partial	Full	Partial
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Water features (pools, spas, etc.)	Provide a designated washing area (SC-A)		Drain feature to the sanitary sewer (if allowed) (SC-B)		Drain feature to a stormwater BMP (SC-C)	
	Full	Partial	Full	Partial	Full	Partial
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note: Table 4 justifications are required for any feature not selecting at least one BMP (either full or partial implementation). For Group 2 features this means not selecting either SD-B or SD-D. Additional justifications may be required on request by County staff. Also use Table 4 to describe sources or BMPs other than those listed.

Table 2 –Baseline BMPs for Pollutant-generating Sources (Group 4)

A. Requirements for Documentation
 Select either or both as applicable.
 Completion of Part B is not required because:
 This is a Small Residential Project, OR
 None of these sources or features are proposed.
 Source Control BMP Requirements Worksheet E.1-1 (SC in Appendix E of the BMP Design Manual) is included as **Attachment 3** (optional unless requested by County staff).

B. Sources and BMPs
 Select all proposed sources and features below. Then select the BMPs on the right to be implemented for each.

	SC-B Plumb to sanitary sewer	SC-C Drain feature to a pervious area	SC-D Provide containment for spills and discharges	SC-E Prevent contact with rainfall	SC-F Isolate flows from adjacent areas	SC-G Prevent wind dispersal	SC-H Label with stencils or signs
Common Source Areas							
<input type="checkbox"/> Trash & Refuse Storage	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---
<input type="checkbox"/> Materials & Equipment Storage	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---
<input type="checkbox"/> Loading & Unloading	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---	---
<input type="checkbox"/> Fueling	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---	---
<input type="checkbox"/> Maintenance & Repair	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---	---
<input type="checkbox"/> Vehicle & Equipment Cleaning	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---	---
<input type="checkbox"/> Food Preparation or Service	<input type="checkbox"/>	---	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---	---

	SC-B	SC-C	SC-D	SC-E	SC-F	SC-G	SC-H
Distributed Features							
<input type="checkbox"/> Storm drain inlets & catch basins	---	---	---	---	---	---	<input type="checkbox"/>
<input type="checkbox"/> Interior floor drains and sumps	<input type="checkbox"/>	---	---	---	---	---	---
<input type="checkbox"/> Drain lines (air conditioning, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---	---	---	---
<input type="checkbox"/> Fire test sprinkler discharges	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---	---	---	---

Provide the following in Table 4, Part 1: (1) justification of any source area or feature with NO BMPs selected, (2) justification of individual unselected BMPs if requested by County staff, and (3) identification of any proposed pollutant-generating sources and BMPs not listed here.

Note: Pollutant-generating sources and features may not discharge directly to the MS4.

Table 3 –Minimum Construction Stormwater BMPs

Minimum Required BMPs by Activity Type Select all applicable activities and at least one BMP for each	References	
	Caltrans ¹	County of San Diego
<input checked="" type="checkbox"/> Erosion Control for Disturbed Slopes (choose at least 1 per season) <input type="checkbox"/> Vegetation Stabilization Planting ² (Summer) <input checked="" type="checkbox"/> Hydraulic Stabilization Hydroseeding ⁶ (Summer) <input type="checkbox"/> Bonded Fiber Matrix or Stabilized Fiber Matrix ³ (Winter) <input type="checkbox"/> Physical Stabilization Erosion Control Blanket ⁷ (Winter)	SS-2, SS-4 SS-4 SS-3 SS-7	
<input checked="" type="checkbox"/> Erosion control for disturbed flat areas (slope < 5%) <input type="checkbox"/> County Standard Lot Perimeter Protection Detail <input checked="" type="checkbox"/> Use of Item A erosion control measures on flat areas <input type="checkbox"/> County Standard Desilting Basin (must treat all site runoff) <input type="checkbox"/> Mulch, straw, wood chips, soil application	SC-2 SS-3, SS-4, SS-7 SC-2 SS-6, SS-8	PDS 659 ⁴ PDS 660 ⁵
<input type="checkbox"/> Energy dissipation (required to control velocity for concentrated runoff or dewatering discharge) <input type="checkbox"/> Energy Dissipater Outlet Protection	SS-10	RSD D-40 ⁶
<input checked="" type="checkbox"/> Sediment control for all disturbed areas <input checked="" type="checkbox"/> Silt Fence <input checked="" type="checkbox"/> Fiber Rolls (Straw Wattles) <input type="checkbox"/> Gravel & Sand Bags <input type="checkbox"/> Dewatering Filtration <input type="checkbox"/> Storm Drain Inlet Protection <input type="checkbox"/> Engineered Desilting Basin (sized for 10-year flow)	SC-1 SC-5 SC-6, SC-8 NS-2 SC-10 SC-2	
<input checked="" type="checkbox"/> Preventing offsite tracking of sediment <input checked="" type="checkbox"/> Stabilized Construction Entrance <input type="checkbox"/> Construction Road Stabilization <input type="checkbox"/> Entrance/Exit Tire Wash <input type="checkbox"/> Entrance/Exit Inspection & Cleaning Facility <input checked="" type="checkbox"/> Street Sweeping and Vacuuming	TC-1 TC-2 TC-3 TC-1 SC-7	
<input checked="" type="checkbox"/> Materials Management <input checked="" type="checkbox"/> Material Delivery & Storage <input checked="" type="checkbox"/> Spill Prevention and Control	WM-1 WM-4	
<input checked="" type="checkbox"/> Waste Management⁷ <input checked="" type="checkbox"/> Waste Management Concrete Waste Management <input checked="" type="checkbox"/> Solid Waste Management <input checked="" type="checkbox"/> Sanitary Waste Management <input type="checkbox"/> Hazardous Waste Management	WM-8 WM-5 WM-9 WM-6	

¹ See Caltrans 2017 Storm Water Quality Handbooks, Construction Site BMP Manual, available at: (<http://www.dot.ca.gov/hq/construc/stormwater/manuals.htm>)

² Planting or Hydroseeding may be installed between May 1st and August 15th. Slope irrigation must be in place and operable for slopes >3 feet. Vegetation must be watered and established prior to October 1st. A contingency physical BMP must be implemented by August 15th if vegetation is not established 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.

³ All slopes over three feet must have established vegetative cover prior to final permit approval.

⁴ County PDS 659. Standard Lot Perimeter Protection Design System (Bldg. Division)

⁵ County PDS 660. County Standard Desilting Basin for Disturbed Areas of 1 Acre or Less Bldg. Division

⁶ Regional Standard Drawing D-40 – Rip Rap Energy Dissipater (also acceptable for velocity reduction)

⁷ Applicants are responsible to apply appropriate BMPs for specific wastes (e.g., BMP WM-8 for concrete).

Table 4 – Required Explanations

Part 1: Permanent Post-construction BMPs (from Tables 1 and 2)		
<ul style="list-style-type: none"> • Required Justifications: If NO BMPs are selected for a source or feature, justify why <u>all</u> BMPs are either not applicable or are infeasible. For Group 2 features NO BMPs means not selecting either SD-B or SD-D. • If Requested: Justify why individual BMPs will not be implemented or will only be partially implemented. • Additional Explanation: Describe any proposed features and/or BMPs not listed in Tables 1 or 2. 		
BMP-Feature Combination	Explanation	
Feature	Energy Dissipation	Energy dissipation will be proposed for the concentrated flow at the swales located around the switchyard and substation.
BMP	Energy Dissipation Outlet Protection	
Feature	Stabilization Seeding	Stabilization Seeding will be used in the Winter months.
BMP		
Feature		
BMP		
Part 2: Justifications for Temporary Construction Phase BMPs (from Table 3)		
<ul style="list-style-type: none"> • Required Justifications: Justify all construction activity types for which NO BMPs were selected. • If Requested: Justify why specific individual BMPs were not selected. • Additional Explanation: Describe any proposed features and/or BMPs not listed in Table 3. 		
BMP-Activity Combination	Explanation	
Activity Type	Energy Dissipation	No construction activity types for energy dissipation were selected because the temporary site modifications are not proposing to concentrate stormwater during construction.
BMP	Energy Dissipation Outlet Protection	
Activity Type		
BMP		

Table 5 – Construction Plan Set Requirements⁸

Use this checklist to confirm that the required information is included on the construction plans.
<input checked="" type="checkbox"/> Include all source control and site design measures described in the SWQMP.
<input checked="" type="checkbox"/> Include all construction BMPs described in the SWQMP.

⁸ For Building Permit Applications, refer to Form PDS 272, <https://www.sandiegocounty.gov/content/dam/sdc/pds/docs/pds272.pdf>