PORT OF SAN DIEGO

STORMWATER QUALITY MANAGEMENT PLAN

FOR PRIORITY DEVELOPMENT PROJECT (PDP)

Project NAME:

Project NUMBER:

Project ADDRESS:

date:

CA CIVIL ENGINEER STAMP AND SIGNATURE:

PREPARED FOR:

[INSERT APPLICANT NAME]

[INSERT ADDRESS]

[INSERT CITY, STATE ZIP CODE]

PREPARED BY:

[INSERT COMPANY NAME]

[INSERT ADDRESS]

[INSERT CITY, STATE ZIP CODE]



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**ACRONYM SHEET**

BMP Best Management Practice

HMP Hydromodification Management Plan

HSG Hydrologic Soil Group

MS4 Municipal Separate Storm Sewer System

N/A Not Applicable

NRCS Natural Resources Conservation Service

PDP Priority Development Project

PE Professional Engineer

SC Source Control

SD Site Design

SDRWQCB San Diego Regional Water Quality Control Board

SIC Standard Industrial Classification

SWQMP Storm Water Quality Management Plan

**PDP SWQMP PREPARER'S CERTIFICATION PAGE**

**Project Name: [Insert Project Name]**

**Permit Application Number: [Insert Permit Application Number]**

**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 Port of San Diego BMP Design Manual, which is a design manual for compliance with local Port of San Diego and regional MS4 Permit (California Regional Water Quality Control Board San Diego Region Order No. R9-2015-0100) requirements for storm water management.

I have read and understand that the Port of San Diego has adopted minimum requirements for managing urban runoff, including storm water, from land development activities, as described in the Port of San Diego 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 the Port of San Diego 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.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Engineer of Work's Signature, PE Number & Expiration Date

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Print Name

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Company

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Date

Engineer's Seal:

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**PDP SWQMP PROJECT APPLICANT’S CERTIFICATION PAGE**

**Project Name: [Insert Project Name]**

**Permit Application Number: [Insert Permit Application Number]**

**PROJECT APPLICANT’S CERTIFICATION**

This PDP SWQMP has been prepared for [INSERT PROJECT APPLICANT/COMPANY NAME] by [INSERT SWQMP PREPARER'S COMPANY NAME]. The PDP SWQMP is intended to comply with the PDP requirements of the Port of San Diego BMP Design Manual, which is a design manual for compliance with local Port of San Diego and regional MS4 Permit (California Regional Water Quality Control Board San Diego Region Order No. 2013-0001, as amended by Orders No. R9-2015-0001 and No. R9-2015-0100) requirements for storm water management.

The undersigned, while it owns the subject project, is responsible for the implementation of the provisions of this plan. This includes:

* **Installation of storm water BMPs,**
* **Verification of installed BMPs pursuant to the Port of San Diego’s project closeout procedures,**
* **Maintenance of BMPs annually or more frequently when necessary to maintain BMP capacity,**
* **Annual verification of BMP maintenance pursuant to the Port of San Diego’s maintenance documentation/verification requirements.**

If the undersigned transfers its interests in the property, its successor-in-interest shall bear the aforementioned responsibility to implement the best management practices (BMPs) described within this plan, including ensuring on-going operation and maintenance of structural BMPs. A signed copy of this document shall be available on the subject property into perpetuity.

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| **Signature 1: Pre-Construction**  *Project applicant’s signature is required prior to approval of the SWQMP.* | | |
| Project Applicant’s Signature: | | |
| Print Project Applicant’s Name: | Company Name: | Date: |

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| **Signature 2: Post-Construction**  *Project applicant’s signature is required for project closeout.* | | |
| Project Applicant’s Signature: | | |
| Print Project Applicant’s Name: | Company Name: | Date: |

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**CONSTRUCTION CHANGE RECORD**

During construction of the project, any changes that affect the design of storm water management features must be reviewed and approved by the Port of San Diego. This might include changes to drainage patterns that occurred based on actual site grading and construction of storm water conveyance structures, or substitutions to storm water management features. The storm water management design must be revisited to ensure the revised project layout and features meet the requirements of the BMP Design Manual and the MS4 Permit.

Design changes must be reviewed and approved by the Engineer of Record and the Port of San Diego prior to continuing construction.

Use this Table to keep a record of changes that occur during construction.

|  |  |  |
| --- | --- | --- |
| **Construction Change Number** | **Date of Approval** | **Summary of Changes** |
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**PROJECT VICINITY MAP**

**Project Name: [Insert Project Name]**

**Permit Application Number: [Insert Permit Application Number]**

[Insert Project Vicinity Map here – see back of this sheet for vicinity map checklist]

**Vicinity Map Checklist**

The Vicinity Map must identify:

Major roadways, geographic features or landmarks

Site perimeter

Geographic features

General topography

Downstream receiving water body

Scale

North arrow

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| **Applicability of Permanent, Post-Construction**  **Storm Water BMP Requirements**  **(Storm Water Intake Form for all Development Permit Applications)** | | | **Form I-1** |
| **Project Identification** | | | |
| Project Name: | | | |
| Permit Application Number: | | | Date: |
| Project Address: | | | |
| **Determination of Permanent, Post-Construction Requirements** | | | |
| The purpose of this form is to identify permanent, post-construction requirements that apply to the project. This form serves as a short summary of applicable requirements, in some cases referencing separate forms that will serve as the backup for the determination of requirements.  Answer each step below, starting with Step 1 and progressing through each step until reaching "Stop".  **Upon reaching a Stop, do not complete further Steps beyond the Stop.**  Refer to Port BMP Design Manual sections and/or separate forms referenced in each step below. | | | |
| **Step** | **Answer** | **Progression** | |
| **Step 1:** Is the project a "development project"?  See Section 1.3 of the BMP Design Manual for guidance. | Yes | Go to Step 2. | |
| No | Stop.  Permanent BMP requirements do not apply. No SWQMP will be required. Provide discussion below. | |
| Discussion / justification if the project is not a "development project" (e.g., the project includes *only* interior remodels within an existing building): | | | |
| **Step 2:** Is the project a Standard Project, Priority Development Project (PDP), or exception to PDP definitions?  To answer this item, see Section 1.4 of the BMP Design Manual *in its entirety* for guidance, AND complete Form I-2, Project Type Determination. | Standard Project | Stop.  Only Standard Project requirements apply, including Standard Project SWQMP. | |
| PDP | Standard and PDP requirements apply, including PDP SWQMP.  Go to Step 3. | |
| Exception to PDP definitions | Stop.  Standard Project requirements apply, and any additional requirements specific to the type of project. Provide discussion and list any additional requirements below. Prepare Standard Project SWQMP. | |

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| **Form I-1 Page 2** | | |
| **[Step 2 Continued from Page 1]** Discussion / justification, and additional requirements for exceptions to PDP definitions, if applicable: | | |
| **Step 3 (PDPs only).** Is the project subject to earlier PDP requirements due to a prior lawful approval?  See Section 1.10 of the BMP Design Manual for guidance. | Yes | Consult the Port of San Diego to determine requirements. Provide discussion and identify requirements below.  Go to Step 4. |
| No | BMP Design Manual PDP requirements apply.  Go to Step 4. |
| Discussion / justification of prior lawful approval, and identify requirements (*not required if prior lawful approval does not apply*): | | |
| **Step 4 (PDPs only).** Do hydromodification flow control requirements apply?  See Section 1.6 of the BMP Design Manual for guidance. | Yes | PDP structural BMPs required for pollutant control (Chapter 5) and hydromodification flow control (Chapter 6).  Stop. |
| No | Stop.  PDP structural BMPs required for pollutant control (Chapter 5) only.  Provide brief discussion of exemption to hydromodification control below. |
| Discussion / justification if hydromodification control requirements do not apply: | | |
| Note: No potential critical coarse sediment yield areas have been identified within Port of San Diego jurisdiction. Therefore when hydromodification management requirements apply, only the flow control requirements apply. | | |

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| **Applicability of Construction Phase**  **Storm Water Requirements**  **(Storm Water Intake Form for all Development Permit Applications)** | **Form I-1b** | | |
| **Project Identification** | | | |
| Project Name: | | | |
| Permit Application Number: | Date: | | |
| Project Address: | | | |
| **Determination of Requirements** | | | |
| The purpose of this form is to identify construction phase storm water requirements that apply to the project.  If the answer to question 1 below is “Yes”, your project is subject to the General Construction Activities Permit and will be required to submit Permit fees, a completed Notice of Intent to comply with the Permit and submit a **Storm Water Pollution Prevention Plan (SWPPP) for Projects Greater Than 1 Acre** to the Port. If the answer to question 1 below is “No”, but the answer to question 2 or 3 is “yes”, you must prepare a Port Construction BMP Plan for projects less than 1 acre. If the answer to questions 4 or 5 is “Yes” then BMPs will be required but a document submittal will not be required. If every question below is answered “No”, no additional storm water documentation is required. | | | |
| **Would the project meet any of these criteria during construction?** | | | |
| 1. Will this project include clearing, grading, disturbances to ground such as stockpiling, or excavation that results in soil disturbances of at least one acre total land area? | | Yes | No |
| 2. Does the project propose pavement resurfacing, grading or soil disturbance greater than 100 square feet? | | Yes | No |
| 3. Will the project occur over or within a receiving water? | | Yes | No |
| 4. Would storm water or urban runoff have the potential to contact any portion of the construction area, including washing and staging areas? | | Yes | No |
| 5. Would the project use any construction materials that could negatively affect water quality if discharged from the site (such as paints, solvents, concrete, and stucco)? | | Yes | No |
| Note: The Port requires the use of Port SWPPP and Construction BMP Plan templates. The templates are available on the Port website <http://www.portofsandiego.org/environment/stormwater/838-swppp-templates.html> or, to request a copy, please contact Planning & Green Port at (619) 686-6254. | | | |

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| **Project Type Determination Checklist** | | | | **Form I-2** |
| **Project Information** | | | | |
| Project Name: | | | | |
| Permit Application Number: | | | | Date: |
| Project Address: | | | | |
| **Project Type Determination: Standard Project or Priority Development Project (PDP)** | | | | |
| The project is (select one):  New Development  Redevelopment | | | | |
| The total proposed newly created or replaced impervious area is: \_\_\_\_\_\_\_\_ ft2 (\_\_\_\_\_\_\_\_) acres | | | | |
| Is the project in any of the following categories, (a) through (f)? | | | | |
| Yes | No | (a) | New development projects that create 10,000 square feet or more of impervious surfaces (collectively over the entire project site). This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land. | |
| 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 square feet or more of impervious surface (collectively over the entire project site), and support one or more of the following uses:   1. Restaurants. This category is defined as a facility that sells prepared foods and drinks for consumption, including stationary lunch counters and refreshment stands selling prepared foods and drinks for immediate consumption (Standard Industrial Classification (SIC) code 5812). 2. Hillside development projects. This category includes development on any natural slope that is twenty-five percent or greater. 3. Parking lots. This category is defined as a land area or facility for the temporary parking or storage of motor vehicles used personally, for business, or for commerce. 4. Streets, roads, highways, freeways, and driveways. This category is defined as any paved impervious surface used for the transportation of automobiles, trucks, motorcycles, and other vehicles. | |

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| **Form I-2 Page 2** | | | |
| 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. See BMP Design Manual Section 1.4.2 for additional guidance.* |
| Yes | No | (e) | New development projects, or redevelopment projects that create and/or replace 5,000 square feet or more of impervious surface, that support one or more of the following uses:   1. 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. 2. 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 and are expected to generate pollutants post construction.  *Note: See BMP Design Manual Section 1.4.2 for additional guidance.* |
| Does the project meet the definition of one or more of the Priority Development Project categories (a) through (f) listed above?  No – the project is not a Priority Development Project (Standard Project).  Yes – the project is a Priority Development Project (PDP). | | | |
| The following is for redevelopment PDPs only:  The area of existing (pre-project) impervious area at the project site is: \_\_\_\_\_\_\_\_ ft2 (A)  The total proposed newly created or replaced impervious area is \_\_\_\_\_\_\_\_ ft2 (B)  Percent impervious surface created or replaced (B/A)\*100: \_\_\_\_\_\_\_%  The percent impervious surface created or replaced is (select one based on the above calculation):  less than or equal to fifty percent (50%) – only new impervious areas are considered PDP  OR  greater than fifty percent (50%) – the entire project site is a PDP | | | |

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| **Site Information Checklist**  **For PDPs** | | | | **Form I-3B (PDPs)** |
| **Project Summary Information** | | | | |
| Project Name | |  | | |
| Project Address | |  | | |
| Permit Application Number | |  | | |
| Project Hydrologic Unit  Select One: | Project Hydrologic Area  Select One: | | Project Hydrologic Subarea  Select One When Applicable: | |
| Pueblo San Diego 908 | 908.10 Point Loma | |  | |
| 908.20 San Diego Mesa | | 908.21 Lindbergh | |
| 908.22 Chollas | |
| 908.30 National City | | 908.31 El Toyon | |
| 908.32 Paradise | |
| Sweetwater 909 | 909.10 Lower Sweetwater | | 909.11 Telegraph | |
| 909.12 La Nacion | |
| Otay 910 | 910.10 Coronado | |  | |
| 910.20 Otay Valley | |  | |
| Port Parcel Area  (total area of Parcel(s) associated with the project) | | \_\_\_\_\_\_\_\_ Acres (\_\_\_\_\_\_\_\_\_\_\_\_ Square Feet) | | |
| Area to be Disturbed by the Project  (Project Area) | | \_\_\_\_\_\_\_\_ Acres (\_\_\_\_\_\_\_\_\_\_\_\_ Square Feet) | | |
| Project Proposed Impervious Area  (subset of Project Area) | | \_\_\_\_\_\_\_\_ Acres (\_\_\_\_\_\_\_\_\_\_\_\_ Square Feet) | | |
| Project Proposed Pervious Area  (subset of Project Area) | | \_\_\_\_\_\_\_\_ Acres (\_\_\_\_\_\_\_\_\_\_\_\_ Square Feet) | | |
| Note: Proposed Impervious Area + Proposed Pervious Area = Area to be Disturbed by the Project.  This may be less than the Parcel Area. | | | | |

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| **Form I-3B Page 2 of 10** |
| **Description of Existing Site Condition** |
| Current Status of the Site (select all that apply):  Existing development  Previously graded but not built out  Demolition completed without new construction  Agricultural or other non-impervious use  Vacant, undeveloped/natural  Description / Additional Information: |
| Existing Land Cover Includes (select all that apply):  Vegetative Cover  Non-Vegetated Pervious Areas  Impervious Areas  Description / Additional Information: |
| Underlying Soil belongs to Hydrologic Soil Group (select all that apply):  NRCS Type A  NRCS Type B  NRCS Type C  NRCS Type D |
| Approximate Depth to Groundwater (GW):  GW Depth < 5 feet  5 feet < GW Depth < 10 feet  10 feet < GW Depth < 20 feet  GW Depth > 20 feet |
| Existing Natural Hydrologic Features (select all that apply):  Watercourses  Seeps  Springs  Wetlands  None  Description / Additional Information: |

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| **Form I-3B Page 3 of 10** |
| **Description of Existing Site Drainage Patterns** |
| How is storm water runoff conveyed from the site? At a minimum, this description should answer:  (1) whether existing drainage conveyance is natural or urban;  (2) Is runoff from offsite conveyed through the site? if yes, quantify all offsite drainage areas, design flows, and locations where offsite flows enter the project site, and summarize how such flows are conveyed through the site;  (3)Provide details regarding existing project site drainage conveyance network, including any existing storm drains, concrete channels, swales, detention facilities, storm water treatment facilities, natural or constructed channels; and  (4) Identify all discharge locations from the existing project site along with a summary of conveyance system size and capacity for each of the discharge locations. Provide summary of the pre-project drainage areas and design flows to each of the existing runoff discharge locations.  Describe existing site drainage patterns: |

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| **Form I-3B Page 4 of 10** |
| **Description of Proposed Site Development** |
| Project Description / Proposed Land Use and/or Activities: |
| List/describe proposed impervious features of the project (e.g., buildings, roadways, parking lots, courtyards, athletic courts, other impervious features): |
| List/describe proposed pervious features of the project (e.g., landscape areas): |
| Does the project include grading and changes to site topography?  Yes  No  Description / Additional Information: |

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| **Form I-3B Page 5 of 10** |
| **Description of Proposed Site Drainage Patterns** |
| Does the project include changes to site drainage (e.g., installation of new storm water conveyance systems)?  Yes  No  If yes, provide details regarding the proposed project site drainage conveyance network, including storm drains, concrete channels, swales, detention facilities, storm water treatment facilities, natural or constructed channels, and the method for conveying offsite flows through or around the proposed project site. Identify all discharge locations from the proposed project site along with a summary of the conveyance system size and capacity for each of the discharge locations. Provide a summary of pre- and post-project drainage areas and design flows to each of the runoff discharge locations. Reference the drainage study for detailed calculations.  Describe proposed site drainage patterns:: |

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| **Form I-3B Page 6 of 10** |
| Identify whether any of the following features, activities, and/or pollutant source areas will be present (select all that apply):  On-site storm drain inlets  Interior floor drains and elevator shaft sump pumps  Interior parking garages  Need for future indoor & structural pest control  Landscape/Outdoor Pesticide Use  Pools, spas, ponds, decorative fountains, and other water features  Food service  Refuse areas  Industrial processes  Outdoor storage of equipment or materials  Vehicle and Equipment Cleaning  Vehicle/Equipment Repair and Maintenance  Fuel Dispensing Areas  Loading Docks  Fire Sprinkler Test Water  Miscellaneous Drain or Wash Water  Plazas, sidewalks, and parking lots  Description / Additional Information: |

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| **Form I-3B Page 7 of 10** | | | | | |
| **Identification and Narrative of Receiving Water and Pollutants of Concern** | | | | | |
| Describe flow path of storm water from the project site discharge location(s), through urban storm conveyance systems as applicable, to receiving creeks, rivers, and lagoons as applicable, and ultimate discharge to the Pacific Ocean (or bay, lagoon, lake or reservoir, as applicable): | | | | | |
| List any 303(d) impaired water bodies within the path of storm water from the project site to the Pacific Ocean (or bay, lagoon, lake or reservoir, as applicable), identify the pollutant(s)/stressor(s) causing impairment, and identify any TMDLs and/or Highest Priority Pollutants from the WQIP for the impaired water bodies: | | | | | |
| **303(d) Impaired Water Body** | | **Pollutant(s)/Stressor(s)** | | **TMDLs / WQIP Highest Priority Pollutant** | |
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| **Identification of Project Site Pollutants\***  **\*Identification of project site pollutants is only required if flow-thru treatment BMPs are implemented onsite in lieu of retention or biofiltration BMPs (note the project must also participate in an alternative compliance program unless prior lawful approval to meet earlier PDP requirements is demonstrated)** | | | | | |
| Identify pollutants expected from the project site based on all proposed use(s) of the site (see BMP Design Manual Appendix B.6): | | | | | |
| **Pollutant** | **Not Applicable to the Project Site** | | **Expected from the Project Site** | | **Also a Receiving Water Pollutant of Concern** |
| Sediment |  | |  | |  |
| Nutrients |  | |  | |  |
| Heavy Metals |  | |  | |  |
| Organic Compounds |  | |  | |  |
| Trash & Debris |  | |  | |  |
| Oxygen Demanding Substances |  | |  | |  |
| Oil & Grease |  | |  | |  |
| Bacteria & Viruses |  | |  | |  |
| Pesticides |  | |  | |  |

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| **Form I-3B Page 8 of 10** |
| **Hydromodification Management Requirements** |
| Do hydromodification management requirements apply (see Section 1.6 of the BMP Design Manual)?  Yes, hydromodification management flow control structural BMPs required.  No, the project will discharge runoff directly to existing underground storm drains discharging directly to water storage reservoirs, lakes, enclosed embayments, or the Pacific Ocean.  No, the project will discharge runoff directly to conveyance channels whose bed and bank are concrete-lined all the way from the point of discharge to water storage reservoirs, lakes, enclosed embayments, or the Pacific Ocean.  No, the project will discharge runoff directly to an area identified as appropriate for an exemption by the WMAA for the watershed in which the project resides.  Note: No potential critical coarse sediment yield areas have been identified within Port of San Diego jurisdiction. Therefore when hydromodification management requirements apply, only the flow control requirements apply.  Description / Additional Information (to be provided if a 'No' answer has been selected above): |

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| **Form I-3B Page 9 of 10** |
| **Flow Control for Post-Project Runoff\***  **\*This Section only required if hydromodification management requirements apply** |
| List and describe point(s) of compliance (POCs) for flow control for hydromodification management (see Section 6.3.1). For each POC, provide a POC identification name or number correlating to the project's HMP Exhibit and a receiving channel identification name or number correlating to the project's HMP Exhibit. |
| Has a geomorphic assessment been performed for the receiving channel(s)?  No, the low flow threshold is 0.1Q2 (default low flow threshold)  Yes, the result is the low flow threshold is 0.1Q2  Yes, the result is the low flow threshold is 0.3Q2  Yes, the result is the low flow threshold is 0.5Q2  If a geomorphic assessment has been performed, provide title, date, and preparer:  Discussion / Additional Information: (optional) |

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| **Form I-3B Page 10 of 10** |
| **Other Site Requirements and Constraints** |
| When applicable, list other site requirements or constraints that will influence storm water management design, such as zoning requirements including setbacks and open space, or local codes governing minimum street width, sidewalk construction, allowable pavement types, and drainage requirements. |
| **Optional Additional Information or Continuation of Previous Sections As Needed** |
| This space provided for additional information or continuation of information from previous sections as needed. |

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| **Source Control BMP Checklist**  **for All Development Projects**  **(Standard Projects and Priority Development Projects)** | | **Form I-4** | | |
| **Project Identification** | | | | |
| Project Name | | | | |
| Permit Application Number | | | | |
| **Source Control BMPs** | | | | |
| All development projects must implement source control BMPs SC-1 through SC-6 where applicable and feasible. See Chapter 4 and Appendix E of the BMP Design Manual for information to implement source control BMPs shown in this checklist.  Answer each category below pursuant to the following.   * "Yes" means the project will implement the source control BMP as described in Chapter 4 and/or Appendix E of the BMP Design Manual. Discussion / justification is not required. * "No" means the BMP is applicable to the project but it is not feasible to implement. Discussion / justification must be provided. * "N/A" means the BMP is not applicable at the project site because the project does not include the feature that is addressed by the BMP (e.g., the project has no outdoor materials storage areas). Discussion / justification may be provided. | | | | |
| **Source Control Requirement** | **Applied?** | | | |
| **SC-1** Prevention of Illicit Discharges into the MS4 | Yes | | No | N/A |
| Discussion / justification if SC-1 not implemented: | | | | |
| **SC-2** Storm Drain Stenciling or Signage | Yes | | No | N/A |
| Discussion / justification if SC-2 not implemented: | | | | |
| **SC-3** Protect Outdoor Materials Storage Areas from Rainfall, Run-On, Runoff, and Wind Dispersal | Yes | | No | N/A |
| Discussion / justification if SC-3 not implemented: | | | | |
| **SC-4** Protect Materials Stored in Outdoor Work Areas from Rainfall, Run-On, Runoff, and Wind Dispersal | Yes | | No | N/A |
| Discussion / justification if SC-4 not implemented: | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Form I-4 Page 2 of 2** | | | |
| **Source Control Requirement** | **Applied?** | | |
| **SC-5** Protect Trash Storage Areas from Rainfall, Run-On, Runoff, and Wind Dispersal | Yes | No | N/A |
| Discussion / justification if SC-5 not implemented: | | | |
| **SC-6** Additional BMPs Based on Potential Sources of Runoff Pollutants (must answer for each source listed below)  On-site storm drain inlets  Interior floor drains and elevator shaft sump pumps  Interior parking garages  Need for future indoor & structural pest control  Landscape/Outdoor Pesticide Use  Pools, spas, ponds, decorative fountains, and other water features  Food service  Refuse areas  Industrial processes  Outdoor storage of equipment or materials  Vehicle and Equipment Cleaning  Vehicle/Equipment Repair and Maintenance  Fuel Dispensing Areas  Loading Docks  Fire Sprinkler Test Water  Miscellaneous Drain or Wash Water  Plazas, sidewalks, and parking lots | Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes | No  No  No  No  No  No  No  No  No  No  No  No  No  No  No  No  No | N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A |
| Discussion / justification if SC-6 not implemented. Clearly identify which sources of runoff pollutants are discussed. Justification must be provided for all "No" answers shown above. | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Site Design BMP Checklist**  **for All Development Projects**  **(Standard Projects and Priority Development Projects)** | | **Form I-5** | | |
| **Project Identification** | | | | |
| Project Name | | | | |
| Permit Application Number | | | | |
| **Site Design BMPs** | | | | |
| All development projects must implement site design BMPs SD-1 through SD-8 where applicable and feasible. See Chapter 4 and Appendix E of the BMP Design Manual for information to implement site design BMPs shown in this checklist.  Answer each category below pursuant to the following.   * "Yes" means the project will implement the site design BMP as described in Chapter 4 and/or Appendix E of the BMP Design Manual. Discussion / justification is not required. * "No" means the BMP is applicable to the project but it is not feasible to implement. Discussion / justification must be provided. * "N/A" means the BMP is not applicable at the project site because the project does not include the feature that is addressed by the BMP (e.g., the project site has no existing natural areas to conserve). Discussion / justification may be provided. | | | | |
| **Site Design Requirement** | **Applied?** | | | |
| **SD-1** Maintain Natural Drainage Pathways and Hydrologic Features | Yes | | No | N/A |
| Discussion / justification if SD-1 not implemented: | | | | |
| **SD-2** Conserve Natural Areas, Soils, and Vegetation | Yes | | No | N/A |
| Discussion / justification if SD-2 not implemented: | | | | |
| **SD-3** Minimize Impervious Area | Yes | | No | N/A |
| Discussion / justification if SD-3 not implemented: | | | | |
| **SD-4** Minimize Soil Compaction | Yes | | No | N/A |
| Discussion / justification if SD-4 not implemented: | | | | |
| **SD-5** Impervious Area Dispersion | Yes | | No | N/A |
| Discussion / justification if SD-5 not implemented: | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Form I-5 Page 2 of 2** | | | |
| **Site Design Requirement** | **Applied?** | | |
| **SD-6** Runoff Collection | Yes | No | N/A |
| Discussion / justification if SD-6 not implemented: | | | |
| **SD-7** Landscaping with Native or Drought Tolerant Species | Yes | No | N/A |
| Discussion / justification if SD-7 not implemented: | | | |
| **SD-8** Harvesting and Using Precipitation | Yes | No | N/A |
| Discussion / justification if SD-8 not implemented: | | | |

|  |  |
| --- | --- |
| **Summary of PDP Structural BMPs** | **Form I-6 (PDPs)** |
| **Project Identification** | |
| Project Name | |
| Permit Application Number | |
| **PDP Structural BMPs** | |
| All PDPs must implement structural BMPs for storm water pollutant control (see Chapter 5 of the Port BMP Design Manual). Selection of PDP structural BMPs for storm water pollutant control must be based on the selection process described in Chapter 5. PDPs subject to hydromodification management requirements must also implement structural BMPs for flow control for hydromodification management (see Chapter 6 of the BMP Design Manual). Both storm water pollutant control and flow control for hydromodification management can be achieved within the same structural BMP(s).  PDP structural BMPs must be verified by the local jurisdiction at the completion of construction. This may include requiring the project applicant or project applicant’s representative and engineer of record to certify construction of the structural BMPs (see Section 1.12 of the BMP Design Manual). PDP structural BMPs must be maintained in perpetuity and the local jurisdiction is required to confirm the maintenance (see Section 7 of the BMP Design Manual).  Use this form to provide narrative description of the general strategy for structural BMP implementation at the project site in the box below. Then complete the PDP structural BMP summary information sheet (page 3 of this form) for each structural BMP within the project (copy the BMP summary information page as many times as needed to provide summary information for each individual structural BMP). | |
| Describe the general strategy for structural BMP implementation at the site. This information must describe how the steps for selecting and designing storm water pollutant control BMPs presented in Section 5.1 of the BMP Design Manual were followed, and the results (type of BMPs selected). For projects requiring hydromodification flow control BMPs, indicate whether pollutant control and flow control BMPs are integrated or separate.  (Continue on page 2 as necessary.) | |

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| **Form I-6 Page 2 of X** |
| **(Page reserved for continuation of description of general strategy for structural BMP implementation at the site)** |
| (Continued from page 1) |

|  |  |
| --- | --- |
| **Form I-6 Page 3 of X (Copy as many as needed)** | |
| **Structural BMP Summary Information**  **(Copy this page as needed to provide information for each individual proposed structural BMP)** | |
| Structural BMP ID No. | |
| Construction Plan Sheet No. | |
| Type of structural BMP:  Retention by harvest and use (HU-1)  Retention by infiltration basin (INF-1)  Retention by bioretention (INF-2)  Retention by permeable pavement (INF-3)  Partial retention by biofiltration with partial retention (PR-1)  Biofiltration (BF-1)  Biofiltration with Nutrient Sensitive Media Design (BF-2)  Proprietary Biofiltration (BF-3) meeting all requirements of Appendix F  Flow-thru treatment control with prior lawful approval to meet earlier PDP requirements (provide BMP type/description in discussion section below)  Flow-thru treatment control included as pre-treatment/forebay for an onsite retention or biofiltration BMP (provide BMP type/description and indicate which onsite retention or biofiltration BMP it serves in discussion section below)  Flow-thru treatment control with alternative compliance (provide BMP type/description in discussion section below)  Detention pond or vault for hydromodification management  Other (describe in discussion section below) | |
| Purpose:  Pollutant control only  Hydromodification control only  Combined pollutant control and hydromodification control  Pre-treatment/forebay for another structural BMP  Other (describe in discussion section below) | |
| Who will certify construction of this BMP?  Provide name and contact information for the party responsible to sign BMP verification forms |  |
| Who will be the final responsible party for this BMP? |  |
| Who will maintain this BMP into perpetuity? |  |
| What is the funding mechanism for maintenance? |  |

|  |
| --- |
| **Form I-6 Page 4 of X (Copy as many as needed)** |
| Structural BMP ID No. |
| Construction Plan Sheet No. |
| Discussion (as needed): |

**ATTACHMENT 1**

**BACKUP FOR PDP POLLUTANT CONTROL BMPS**

This is the cover sheet for Attachment 1.

**Indicate which Items are Included behind this cover sheet:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Attachment Sequence** | **Contents** | **Checklist** |
| REQUIRED | Attachment 1a | DMA Exhibit  See DMA Exhibit Checklist on the back of this Attachment cover sheet. | Included |
| REQUIRED | Attachment 1b | Tabular Summary\* of DMAs Showing DMA ID matching DMA Exhibit, DMA Area, and DMA Type  \*Provide table in this Attachment OR on DMA Exhibit in Attachment 1a | Included on DMA Exhibit in Attachment 1a  Included as Attachment 1b, separate from DMA Exhibit |
| REQUIRED  *(unless the entire project will use infiltration BMPs)* | Attachment 1c | Form I-7, Harvest and Use Feasibility Screening Checklist  Refer to Appendix B.3-1 of the BMP Design Manual to complete Form I-7. | Included  Not included because the entire project will use infiltration BMPs |
| REQUIRED  *(unless the project will use harvest and use BMPs)* | Attachment 1d | Form I-8, Categorization of Infiltration Feasibility Condition  Refer to Appendices C and D of the BMP Design Manual to complete Form I-8. | Included  Not included because the entire project will use harvest and use BMPs |
| REQUIRED | Attachment 1e | Pollutant Control BMP Design Worksheets / Calculations  Refer to Appendices B and E of the BMP Design Manual for structural pollutant control BMP design guidelines | Included |

**Use this checklist to ensure the required information has been included on the DMA Exhibit:**

The DMA Exhibit must identify:

Entire property included on one map (use key map if multi-sheets)

BMP Sheet which includes the following (BMP type, size, dimensions for location, cross section and elevation detail); global positioning system coordinates of property

Drainage areas and direction of flow

Storm drain system(s)

Nearby water bodies and municipal storm drain inlets

Location and details of storm water conveyance systems (ditches, inlets, outlets, storm drains, overflow structures, etc.)

Location of existing and proposed storm water controls

Location of “impervious” areas – paved areas, buildings, covered areas

Locations where materials would be directly exposed to storm water

Location of building and activity areas (e.g., fueling islands, garages, waste container area, wash racks, hazardous material storage areas, etc.)

Areas of potential soil erosion (including areas downstream of the project)

Location of existing drinking water wells

Location of existing vegetation to be preserved

Location of LID landscaping features, site design BMPs

Underlying hydrologic soil group

Approximate depth to groundwater

Existing natural hydrologic features ( watercourses, seeps, springs, wetlands)

Existing topography and impervious areas

Existing and proposed site drainage network and connections to drainage offsite

Proposed demolition

Proposed grading

Proposed impervious features

Proposed design features and surface treatments used to minimize imperviousness

Drainage management area (DMA) boundaries, DMA ID numbers, and DMA areas (square footage or acreage), and DMA type (i.e., drains to BMP, self-retaining, or self-mitigating)

Potential pollutant source areas and corresponding required source controls (see BMP Design Manual Chapter 4 and Appendix E.1)

Structural BMPs (identify location, type of BMP, and size/detail)

**ATTACHMENT 2**

**BACKUP FOR PDP HYDROMODIFICATION CONTROL MEASURES**

This is the cover sheet for Attachment 2.

Mark this box if this attachment is empty because the project is exempt from PDP hydromodification management requirements.

**Indicate which Items are Included behind this cover sheet:**

|  |  |  |
| --- | --- | --- |
| **Attachment Sequence** | **Contents** | **Checklist** |
| Attachment 2a | Hydromodification Management Exhibit (Required) | Included  See Hydromodification Management Exhibit Checklist on the back of this Attachment cover sheet. |
| Attachment 2b | Management of Critical Coarse Sediment Yield Areas (Section 6.2 of the BMP Design Manual) | Not Applicable  No Potential Critical Coarse Sediment Yield Areas have been identified within Port of San Diego jurisdiction |
| Attachment 2c | Geomorphic Assessment of Receiving Channels (Optional)  See Section 6.3.4 of the BMP Design Manual. | Not performed  Included  Submitted as separate stand-alone document |
| Attachment 2d | Flow Control Facility Design, including Structural BMP Drawdown Calculations and Overflow Design Summary (Required)  See Chapter 6 and Appendix G of the BMP Design Manual | Included  Submitted as separate stand-alone document |
| Attachment 2e | Vector Control Plan (Required when structural BMPs will not drain in 96 hours) | Included  Not required because BMPs will drain in less than 96 hours |

**Use this checklist to ensure the required information has been included on the Hydromodification Management Exhibit:**

The Hydromodification Management Exhibit must identify:

Underlying hydrologic soil group

Approximate depth to groundwater

Existing natural hydrologic features (watercourses, seeps, springs, wetlands)

Existing topography

Existing and proposed site drainage network and connections to drainage offsite

Proposed grading

Proposed impervious features

Proposed design features and surface treatments used to minimize imperviousness

Point(s) of Compliance (POC) for Hydromodification Management

Existing and proposed drainage boundary and drainage area to each POC (when necessary, create separate exhibits for pre-development and post-project conditions)

Structural BMPs for hydromodification management (identify location, type of BMP, and size/detail)

**ATTACHMENT 3**

**Structural BMP Maintenance Information**

This is the cover sheet for Attachment 3.

**Indicate which Items are Included behind this cover sheet:**

|  |  |  |
| --- | --- | --- |
| **Attachment Sequence** | **Contents** | **Checklist** |
| Attachment 3a | Structural BMP Maintenance Information | Included  See Structural BMP Maintenance Information Checklist on the back of this Attachment cover sheet. |
| Attachment 3b | Port of San Diego O&M Agreement (when applicable) | Included  Not Applicable |

**Use this checklist to ensure the required information has been included in the Structural BMP Maintenance Information Attachment:**

**Attachment 3a must identify:**

Designated responsible party to manage the storm water BMP(s)

Any necessary employee training and duties

When applicable, necessary special training or certification requirements for inspection and maintenance personnel such as confined space entry or hazardous waste management

Operating schedule

Maintenance frequency

Specific maintenance indicators and actions for proposed structural BMP(s). This shall be based on Section 7.7 of the BMP Design Manual and enhanced to reflect actual proposed components of the structural BMP(s)

How to access the structural BMP(s) to inspect and perform maintenance

Features that are provided to facilitate inspection (e.g., observation ports, cleanouts, silt posts, or other features that allow the inspector to view necessary components of the structural BMP and compare to maintenance thresholds)

Manufacturer and part number for proprietary parts of structural BMP(s) when applicable

Maintenance thresholds specific to the structural BMP(s), with a location-specific frame of reference (e.g., level of accumulated materials that triggers removal of the materials, to be identified based on viewing marks on silt posts or measured with a survey rod with respect to a fixed benchmark within the BMP)

Recommended equipment to perform maintenance

Copies of resource agency permits (when applicable)

The Port’s O&M Template shall be used to fulfill the O&M planning requirement. The O&M Plan preparer is responsible to ensure all required elements listed above are included.

**ATTACHMENT 4**

**Copy of Plan Sheets Showing Permanent Storm Water BMPs**

This is the cover sheet for Attachment 4.

**Use this checklist to ensure the required information has been included on the plans:**

**The plans must identify:**

Structural BMP(s) with ID numbers matching Form I-6 Summary of PDP Structural BMPs

The grading and drainage design shown on the plans must be consistent with the delineation of DMAs shown on the DMA exhibit

Details and specifications for construction of structural BMP(s)

Signage indicating the location and boundary of structural BMP(s)

How to access the structural BMP(s) to inspect and perform maintenance

Features that are provided to facilitate inspection (e.g., observation ports, cleanouts, silt posts, or other features that allow the inspector to view necessary components of the structural BMP and compare to maintenance thresholds)

Manufacturer and part number for proprietary parts of structural BMP(s) when applicable

Maintenance thresholds specific to the structural BMP(s), with a location-specific frame of reference (e.g., level of accumulated materials that triggers removal of the materials, to be identified based on viewing marks on silt posts or measured with a survey rod with respect to a fixed benchmark within the BMP)

Recommended equipment to perform maintenance

When applicable, necessary special training or certification requirements for inspection and maintenance personnel such as confined space entry or hazardous waste management

Include landscaping plan sheets showing vegetation requirements for vegetated structural BMP(s)

All BMPs must be fully dimensioned on the plans

When proprietary BMPs are used, site-specific cross section with outflow, inflow, and model number shall be provided. Photocopies of general brochures are not acceptable.

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**ATTACHMENT 5**

**Project Closeout Documentation**

This is the cover sheet for Attachment 5.

**Indicate which Items are Included behind this cover sheet:**

|  |  |  |
| --- | --- | --- |
| **Attachment Sequence** | **Contents** | **Checklist** |
| Attachment 5a | Copy of Review and Acceptance of SWQMP from Adjacent Jurisdiction (When Applicable\*)  \*Required for projects along jurisdictional boundaries when portions of the project are within other jurisdiction | Not Applicable  Pending  Included |
| Attachment 5b | SWQMP Changes During Construction  See SWQMP Construction Change Documentation Checklist on the back of this cover sheet for required documentation | Not Applicable  Included |
| Attachment 5c | Port of San Diego Verification Closeout Form | Blank Form Included (Construction not complete)  Completed and Signed |

**Use this checklist to ensure the required information is provided for construction change documentation:**

**When applicable, Attachment 5b must:**

Describe the construction change

Describe the impact to the storm water management design

Describe how the project will maintain compliance with storm water requirements

Provide a revised DMA map