|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Project Number(s): | PC |  | LD |  | GP |  |

|  |
| --- |
| **C:\Users\jnottage\Desktop\CityofVista_Logo_Black[NoBackground].png** |
| **PRIORITY DEVELOPMENT PROJECT** STORM WATER QUALITY MANAGEMENT PLAN (SWQMP)FOR [INSERT PROJECT NAME][INSERT PROJECT SITE]**PREPARED FOR:**[INSERT APPLICANT NAME][INSERT ADDRESS][INSERT CITY, STATE ZIP CODE][INSERT TELEPHONE NUMBER][INSERT EMAIL] |

[INSERT MONTH, DATE, YEAR PREPARED]

*NOTE: This Priority Development Project SWQMP Template and Instructions are offered as a tool to assist users in complying with RWQCB Order No. R9-2015-0001 (Permit), and is not intended to warrant or guarantee Permit compliance, which is the independent and sole responsibility of the user. This template is subject to revision without notice, at any time.*

CONTENTS

[ENGINEER OF WORK CERTIFICATION STATEMENT 3](#_Toc454456141)

[PROJECT OWNER CERTIFICATION STATEMENT 4](#_Toc454456142)

[CITY OF VISTA STAFF REVIEW 5](#_Toc454456143)

[PROJECT VICINITY MAP 7](#_Toc454456144)

[FORM 1 – PROJECT CATEGORY DETERMINATION CHECKLIST 8](#_Toc454456145)

[FORM 2 – PROJECT OVERVIEW 9](#_Toc454456146)

[DESCRIPTION OF EXISTING SITE CONDITIONS 10](#_Toc454456147)

[DESCRIPTION OF EXISTING SITE DRAINAGE PATTERNS 12](#_Toc454456148)

[DESCRIPTION OF PROPOSED SITE DEVELOPMENT 13](#_Toc454456149)

[DESCRIPTION OF PROPOSED SITE DRAINAGE PATTERNS 14](#_Toc454456150)

[POTENTIAL POLLUTANT SOURCE AREAS 15](#_Toc454456151)

[IDENTIFICATION AND NARRATIVE OF RECEIVING WATER AND POLLUTANTS OF CONCERN 16](#_Toc454456152)

[HYDROMODIFICATION MANAGEMENT REQUIREMENTS 17](#_Toc454456153)

[CRITICAL COARSE SEDIMENT YIELD AREAS 18](#_Toc454456154)

[FLOW CONTROL FOR POST-PROJECT RUNOFF 19](#_Toc454456155)

[OTHER SITE REQUIREMENTS AND CONSTRAINTS 20](#_Toc454456156)

[FORM 3 – SOURCE CONTROL BMPS FOR ALL DEVELOPMENT PROJECTS 21](#_Toc454456157)

[PROJECT IDENTIFICATION & SOURCE CONTROLS 21](#_Toc454456158)

[FORM 4 – SITE DESIGN BMPS FOR ALL DEVELOPMENT PROJECTS 25](#_Toc454456159)

[PROJECT IDENTIFICATION 25](#_Toc454456160)

[FORM 5 – STRUCTURAL POLLUTANT CONTROL AND HYDROMODIFICATION MANAGEMENT BMPS 27](#_Toc454456161)

[PROJECT IDENTIFICATION 27](#_Toc454456162)

[PDP STRUCTURAL BMPS 27](#_Toc454456163)

[FORM 6 – STORMWATER BMP MAINTENANCE MECHANISM 28](#_Toc454456164)

[PROJECT IDENTIFICATION 28](#_Toc454456165)

[MAINTENANCE REQUIREMENTS 28](#_Toc454456166)

[ATTACHMENT 1 – POLLUTANT CONTROLS: SUPPORT DOCUMENT AND CHECKLIST 29](#_Toc454456167)

[ATTACHMENT 1A – DMA EXHIBIT CHECKLIST 30](#_Toc454456168)

[ATTACHMENT 1B – TEMPLATE TABULAR DMA SUMMARY 31](#_Toc454456169)

[ATTACHMENT 2 – HYDROMODIFICATION MANAGEMENT CONTROLS: SUPPORT DOCUMENTATION & CHECKLIST 32](#_Toc454456170)

[ATTACHMENT 2A – HYDROMODIFICATION MANAGEMENT EXHIBIT 33](#_Toc454456171)

[ATTACHMENT 3 - BMP MAINTENANCE INFORMATION 34](#_Toc454456172)

[ATTACHMENT 3A – MAINTENANCE PLAN REQUIREMENTS 35](#_Toc454456173)

[ATTACHMENT 3B – MAINTENANCE AGREEMENT 36](#_Toc454456174)

[ATTACHMENT 4 - REQUIREMENTS FOR CONSTRUCTION PLANS 37](#_Toc454456175)

# ENGINEER OF WORK CERTIFICATION STATEMENT

**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 City of Vista BMP Design Manual, which is a design manual for compliance with local City 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 City Engineer 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 the City Engineer 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.

**SWQMP PREPARED BY:**

[INSERT ENGINEER-OF-WORK NAME]

[INSERT COMPANY NAME]

[INSERT ADDRESS]

[INSERT CITY, STATE, ZIP CODE]

[INSERT TELEPHONE NUMBER]

[INSERT EMAIL]

[INSERT PE LICENSE NUMBER]

[INSERT LICENSE EXPIRATION DATE]

 [INSERT STAMP IN SPACE BELOW]

|  |
| --- |
|  |
| Signature, PE License Number & Expiration Date |

|  |
| --- |
|  |
| Print Name |

|  |
| --- |
|  |
| Date |

# PROJECT OWNER CERTIFICATION STATEMENT

**Owners Certification**

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

The undersigned, while it owns the subject property, is responsible for the implementation of the provisions of this plan. Once 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.

**OWNER DETAILS:**

[INSERT NAME]

[INSERT COMPANY]

[INSERT ADDRESS]

[INSERT CITY, STATE, ZIP CODE]

[INSERT TELEPHONE NUMBER]

[INSERT EMAIL]

|  |
| --- |
|  |
| Project Owner’s Signature |

|  |
| --- |
|  |
| Print Name |

|  |
| --- |
|  |
| Date |

# CITY OF VISTA STAFF REVIEW

|  |
| --- |
| Reviewed and Approved: |
| City Staff Signature: Date: |

PAGE INTENTIONALLY BLANK

# PROJECT VICINITY MAP

Project Name: [Insert Project Name]

Permit Application Number: [Insert Permit Application Number]

Insert Project Vicinity Map Below:

|  |
| --- |
| FORM 1 – PROJECT CATEGORY DETERMINATION CHECKLIST |

This form is used to assess stormwater BMP requirements applicable to the proposed project. The form is available as a stand-alone fillable checklist on the City’s website and a completed copy must be included with the final SWQMP submitted to the City. The form is available at:

<http://www.cityofvista.com/services/city-departments/community-development/building-planning-permits-applications/land-development-autocad-templates/storm-water-forms>

|  |
| --- |
| FORM 2 – PROJECT OVERVIEW**Page 1 of 11** |

|  |  |
| --- | --- |
| Project Name |  |
| Project Address |  |
| Assessor's Parcel Number(s) (APN(s)) |  |
| Permit Application Number |  |
| Watershed *(select one checkbox; use webpage below to determine watershed)*<http://www.cityofvista.com/services/city-departments/community-development/building-planning-permits-applications/land-development-autocad-templates/storm-water-forms> |
|  San Luis Rey | [ ]  Lower San Luis Rey – Mission, 903.11 |
|  Carlsbad | [ ]  Loma Alta – Loma Alta, 904.10 |
| [ ]  Buena Vista – El Salto, 904.21 |
| [ ]  Buena Vista – Vista, 904.22 |
| [ ]  Agua Hedionda – Los Monos, 904.31 |
| [ ]  Agua Hedionda – Buena, 904.32 |
| [ ]  San Marcos – Batiquitos, 904.51 |
| Parcel Area(total area of Assessor's 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. |

|  |
| --- |
| **Form 2, Page 2 of 11** |
| DESCRIPTION OF EXISTING SITE CONDITIONS |
| Current Status of the Site (select all that apply and describe below):[ ]  Existing development [ ]  Previously graded but not built out[ ]  Demolition completed without new construction[ ]  Agricultural or other non-impervious use [ ]  Vacant, undeveloped/naturalDescribe:  |
| Existing Land Cover Includes (select all that apply and describe below):[ ]  Vegetative Cover  Acres (Square Feet)[ ]  Non-Vegetated Pervious Areas  Acres (Square Feet)[ ]  Impervious Areas  Acres (Square Feet)Describe: |
| 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 and describe in next section):[ ]  Drainage ditch/Swale/Waterway[ ]  Seeps[ ]  Springs[ ]  Wetlands[ ]  None |

|  |
| --- |
| **Form 2, Page 3 of 11** |
| DESCRIPTION OF EXISTING SITE DRAINAGE PATTERNS |
| How is storm water runoff conveyed from the site? At a minimum, this description should answer:1. Is existing site drainage conveyance natural or improved storm drain (urbanized);
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: |
|  |

|  |
| --- |
| **Form 2, Page 4 of 11** |
| 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[ ]  NoDescribe: |

|  |
| --- |
| **Form 2, Page 5 of 11** |
| DESCRIPTION OF PROPOSED SITE DRAINAGE PATTERNS |
| Does the project include changes to site drainage (e.g., installation of new storm water conveyance systems)?[ ]  Yes[ ]  NoIf 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: |

|  |
| --- |
| **Form 2, Page 6 of 11** |
| POTENTIAL POLLUTANT SOURCE AREAS |
| Identify whether any of the following features, activities, and/or pollutant source areas will be present. Select all Pollutant Source Areas that apply and include them on the DMA Exhibit. Source control BMPs must be identified for each of these areas in Form 3 of this SWQMP:[ ]  On-site storm drain inlets [ ]  Sump pumps or French drains[ ]  Interior or sub-surface parking garages[ ]  Need for future indoor & structural pest control [ ]  Landscape/outdoor pesticide use[ ]  Pools, spas, ponds, decorative fountains, or other water features[ ]  Food preparation and/or service [ ]  Refuse/trash collection areas[ ]  Industrial processes[ ]  Outdoor storage of equipment, chemicals, or materials[ ]  Vehicle and equipment cleaning[ ]  Vehicle/equipment repair and maintenance[ ]  Fuel dispensing areas[ ]  Loading docks[ ]  Fire sprinkler test and relief point [ ]  Miscellaneous drain or wash down areas [ ]  Plazas, sidewalks, and parking lotsDescribe: |

|  |
| --- |
| **Form 2, Page 7 of 11** |
| 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** |
|  |  |  |
|  |  |  |
|  |  |  |
| **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 | [ ]  | [ ]  | [ ]  |

|  |
| --- |
| **Form 2, Page 8 of 11** |
| HYDROMODIFICATION MANAGEMENT REQUIREMENTS |
| Do hydromodification management requirements apply (see Section 1.6 of the BMP Design Manual; select one box and describe below)?[ ]  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.Describe: |

|  |
| --- |
| **Form 2, Page 9 of 11** |
| CRITICAL COARSE SEDIMENT YIELD AREAS |
| *\*This section only required if hydromodification management requirements apply* |
| Based on the maps provided within the WMAA, do potential critical coarse sediment yield areas exist within the project drainage boundaries (select all that apply and describe below)? Additional signed and stamped reports must be provided to document any exemption from coarse sediment yield requirements. [ ]  Yes[ ]  No, No critical coarse sediment yield areas to be protected based on WMAA mapsIf yes, have any of the optional analyses presented in Section 6.2 of the BMP Design Manual been performed?[ ]  6.2.1 Verification of Geomorphic Landscape Units (GLUs) Onsite[ ] 6.2.2 Downstream Systems Sensitivity to Coarse Sediment[ ] 6.2.3 Optional Additional Analysis of Potential Critical Coarse Sediment Yield Areas Onsite[ ] No optional analyses performed, the project will avoid critical coarse sediment yield areas identified based on WMAA mapsIf optional analyses were performed, what is the final result?[ ] No critical coarse sediment yield areas to be protected based on verification of GLUs onsite[ ] Critical coarse sediment yield areas exist but additional analysis has determined that protection is not required. Documentation attached in Attachment 2.B of the SWQMP.[ ] Critical coarse sediment yield areas exist and require protection. The project will implement management measures described in Sections 6.2.4 and 6.2.5 as applicable, and the areas are identified on the SWQMP Exhibit.Describe: |

|  |
| --- |
| **Form 2, Page 10 of 11** |
| FLOW CONTROL FOR POST-PROJECT RUNOFF |
| *\*This section only required if hydromodification management requirements apply* |
| List and describe point(s) of compliance for hydromodification management flow control (see Section 6.3.1). Identify each point of compliance for flow control on the Hydromodification Management Exhibit in Attachment 2A.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 0.5Q2If a geomorphic assessment has been performed, provide the report. Discussion / Additional Information: (optional) |

|  |
| --- |
| **Form 2, Page 11 of 11** |
| 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. |

|  |  |
| --- | --- |
|

|  |
| --- |
| **FORM 3 – source control bmps for all development projects** |

Page 1 of 4 |
| PROJECT IDENTIFICATION & SOURCE CONTROLS |
| Project Name |
| Permit Application Number |
| All development projects must implement source control BMPs SC-1 through SC-6, unless justification is provided by qualified design professional See Chapter 4 and Appendix E of the Model BMP Design Manual for information to implement source control BMPs shown in this checklist.Answer each category below pursuant to the following, and provide description.* "Yes" means the project will implement the source control BMP as described in Chapter 4 and/or Appendix E of the Model BMP Design Manual.
* "No" means the BMP is applicable to the project but it is not feasible to implement.
* "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).
 |
| **Source Control Requirement** | **Applied?** |
| **SC-1** Prevention of Illicit Discharges into the MS4 | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |
| **SC-2** Storm Drain Stenciling or Signage | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |
| **SC-3** Protect Outdoor Materials Storage Areas from Rainfall, Run-On, Runoff, and Wind Dispersal | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |
| **SC-4** Protect Materials Stored in Outdoor Work Areas from Rainfall, Run-On, Runoff, and Wind Dispersal | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |

|  |
| --- |
| **Form 3, Page 2 of 4** |
| **Source Control Requirement** | **Applied?** |
| **SC-5** Protect Trash Storage Areas from Rainfall, Run-On, Runoff, and Wind Dispersal | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |
| **SC-6** Additional BMPs Based on Potential Sources of Runoff Pollutants (must answer for each source listed below) | **Applied?** |
| 1. On-site storm drain inlets
 | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |
| 1. Sump pumps or French drains
 | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |
| 1. Interior or sub-surface parking garages
 | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |
| 1. Need for future indoor & structural pest control
 | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |
| 1. Landscape/outdoor pesticide use
 | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |

|  |
| --- |
| **Form 3, Page 3 of 4** |
| **Source Control Requirement** | **Applied?** |
| 1. Pools, spas, ponds, decorative fountains, or other water features
 | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |
| 1. Food preparation and/or service
 | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |
| 1. Refuse/trash collection areas
 | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |
| 1. Industrial processes
 | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |
| 1. Outdoor storage of equipment, chemicals, or materials
 | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |
| 1. Vehicle and equipment cleaning
 | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |
| 1. Vehicle/equipment repair and maintenance
 | ☐ Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |
| 1. Fuel dispensing areas
 | [ ]  Yes | ☐ No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |

|  |
| --- |
| **Form 3, Page 4 of 4** |
| 1. Loading docks
 | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |
| 1. Fire sprinkler test water and relief point
 | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |
| 1. Miscellaneous drain or wash down areas
 | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |
| 1. Plaza, sidewalks, parking lots
 | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how source control will be implemented, or justify if not feasible: |
|  |
| 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. |

|  |
| --- |
| **FORM 4 – SITE DESIGN BMPS FOR ALL DEVELOPMENT PROJECTS**Page 1 of 2 |
| PROJECT IDENTIFICATION |
| Project Name |
| Permit Application Number |
| All development projects must implement site design BMPs SD-1 through SD-8, unless justification is provided by qualified design professional. See Chapter 4 and Appendix E of the Model BMP Design Manual for information to implement site design BMPs shown in this checklist.Answer each category below pursuant to the following, and provide description.* "Yes" means the project will implement the site design BMP as described in Chapter 4 and/or Appendix E of the Model BMP Design Manual.
* "No" means the BMP is applicable to the project but it is not feasible to implement.
* "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).
 |
| **Site Design Requirement** | **Applied?** |
| **SD-1** Maintain Natural Drainage Pathways and Hydrologic Features | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how site design will be implemented, or justify if not feasible: |
| **SD-2** Conserve Natural Areas, Soils, and Vegetation | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how site design will be implemented, or justify if not feasible: |
| **SD-3** Minimize Impervious Area | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how site design will be implemented, or justify if not feasible: |
| **SD-4** Minimize Soil Compaction | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how site design will be implemented, or justify if not feasible: |
| **Form 4, Page 2 of 2** |
| **SD-5** Impervious Area Dispersion | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how site design will be implemented, or justify if not feasible: |
| **SD-6** Runoff Collection | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how site design will be implemented, or justify if not feasible: |
| **SD-7** Landscaping with Native or Drought Tolerant Species | [ ]  Yes | [ ]  No | [ ]  N/A |
| Describe how site design will be implemented, or justify if not feasible: |
| **SD-8** Harvest and Use of Precipitation*Note: Worksheet B.3-1, “Harvest and Use Feasibility” must be included in this section of the SWQMP.* | [ ] Yes | [ ]  No | [ ]  N/A |
| Describe how site design will be implemented, or justify if not feasible: |

|  |
| --- |
| **FORM 5 – STRUCTURAL POLLUTANT CONTROL AND HYDROMODIFICATION MANAGEMENT BMPS** |
| 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 *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 owner or project owner'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 into perpetuity, and the local jurisdiction must 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 BMP selected). For projects requiring hydromodification flow control BMPs, indicate whether pollutant control and flow control BMPs are integrated or separate structures. Note: Each structural pollutant control and hydromodification management BMP must be clearly identified on a site map (Attachment 1a), and described in supporting table (Attachment 1B). |

|  |
| --- |
| **FORM 6 – STORMWATER BMP MAINTENANCE MECHANISM** |
| PROJECT IDENTIFICATION |
| Project Name |
| Permit Application Number |
| Maintenance Requirements |
| A stormwater structural BMP operations and maintenance plan must be prepared for PDPs. A template plan is available at:<http://www.cityofvista.com/services/city-departments/community-development/building-planning-permits-applications/land-development-autocad-templates/storm-water-forms>Has a stormwater structural BMP operations and maintenance plan been prepared?[ ]  Yes, included with Attachment 3A[ ]  No[INSERT PLAN NAME][INSERT PLAN DATE][INSERT PREPARER’S NAME][INSERT PREPARER’S TITLE/COMPANY] |
| All projects are required to maintain designed functionality of structural BMPs in perpetuity. Privately-owned projects must record a *Storm Drain Maintenance Agreement* with the County of San Diego Assessor’s Office. A template *Storm Drain Maintenance Agreement* is available at:<http://www.cityofvista.com/services/city-departments/community-development/building-planning-permits-applications/land-development-autocad-templates/storm-water-forms>Has a Storm Drain Maintenance Agreement been submitted to the County?[ ]  Yes, copy included with Attachment 3B[ ]  No[ ]  Not Applicable (e.g., city-owned property/project) |

# attachment 1 – POLLUTANT CONTROLS: SUPPORT DOCUMENT AND CHECKLIST

Each of the attachments indicated below should be considered for inclusion with the SWQMP. Use this checklist to indicate which attachments are included behind this coversheet.

|  |  |  |
| --- | --- | --- |
| **Attachment Sequence** | **Contents** | **Checklist** |
| Attachment 1A | Drainage Management Area (DMA) Exhibit See DMA Exhibit Checklist on next page. | [ ]  Included |
| Attachment 1B | Tabular Summary of DMAs Showing DMA ID matching DMA Exhibit, DMA Area, DMA Type, and BMPs\*\*Provide table in this Attachment OR on DMA Exhibit in Attachment 1A | [ ]  Included on DMA Exhibit in Attachment 1A[ ]  Included as Attachment 1B |
| Attachment 1C | Harvest and Use Feasibility Screening Checklist (Worksheet B.3-1)Refer to Appendix B.3-1 of the *BMP Design Manual*. | [ ]  Included[ ]  Not included because the entire project will use Infiltration BMPs |
| Attachment 1D | Categorization of Infiltration Feasibility Condition (Worksheet C.4-1) Refer to Appendices C and D of the *BMP Design Manual*. | [ ]  Included[ ]  Not included because the entire project will use Harvest and Use BMPs |
| Attachment 1E | Pollutant Control BMP Design Worksheets and Calculations Refer to Appendices B and E of the *BMP Design Manual* for structural pollutant control BMP design guidelines | [ ]  Included |

# attachment 1a – DMA EXHIBIT CHECKLIST

For Attachment 1A, provide map(s) for the project site, titled “DMA Exhibit.” The checklist below identifies minimum elements that must be included with the DMA Exhibit.

[ ]  Underlying hydrologic soil group

[ ]  Approximate depth to groundwater

[ ]  Existing natural hydrologic features (watercourses, seeps, springs, wetlands, etc.)

[ ]  Critical coarse sediment yield areas to be protected

[ ]  Existing topography and impervious areas

[ ]  Existing and proposed site drainage network and storm drain structures

[ ]  Proposed connections to offsite drainage

[ ]  Proposed demolition

[ ]  Proposed grading

[ ]  Proposed impervious features

[ ]  Proposed design features and surface treatments used to minimize imperviousness

[ ]  Drainage management area (DMA) boundaries

[ ]  DMA identification numbers (DMA ID)

[ ]  DMA areas (square footage or acreage)

[ ]  DMA type (Drains to BMP, Self-mitigating, De Minimis, or Self-retaining)

[ ]  Potential pollutant source areas and corresponding required source controls (see Form 2 and Form 3 of SWQMP, *BMP Design Manual* Chapter 4 and Appendix E.1)

[ ]  Proposed Structural BMPs (see Form 5 of SWQMP)

# attachment 1b – TEMPLATE TABULAR DMA SUMMARY

The template tabular summary of DMAs must accompany the DMA Exhibit (Attachment 1A). A template table is provided below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **DMA ID** | **DMA Surface Type (roof, street, etc.)** | **DMA Area (sq.ft.)** | **DMA Type1** | **Structural BMP ID** | **Proposed Structural BMP Type2** | **Structural BMP Size3**  |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |

1 DMA Type can only be: 1) Drains to BMP, 2) Self-mitigating, 3) De Minimis, or 4) Self-retaining

2 BMP Type must be consistent with terminology in the *BMP Design Manual* and/or CASQA Fact Sheets

3 Structural BMP Size is typically presented as an area (sq. ft.) or size (e.g., proprietary devices)

# attachment 2 – hydromodification management CONTROLS: SUPPORT DOCUMENTATION & CHECKLIST

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

Each of the attachments indicated below should be considered for inclusion with the SWQMP. Use this checklist to indicate which attachments are included behind this coversheet.

| **Attachment Sequence** | **Contents** | **Checklist** |
| --- | --- | --- |
| Attachment 2A | Hydromodification Management Exhibit  | [ ]  IncludedSee Hydromodification Management Exhibit Checklist on the back of this Attachment cover sheet. |
| Attachment 2B | Management of Critical Coarse Sediment Yield Areas See Section 6.2 of the *BMP Design Manual*. | [ ]  Exhibit showing project drainage boundaries marked on WMAA Critical Coarse Sediment Yield Area Map Analyses, as applicable, for Critical Coarse Sediment Yield Area Determination, per *BMP Design Manual:*[ ]  6.2.1 Verification of Geomorphic Landscape Units Onsite[ ]  6.2.2 Downstream Systems Sensitivity to Coarse Sediment[ ]  6.2.3 Optional Additional Analysis of Potential Critical Coarse Sediment Yield Areas Onsite |
| Attachment 2C | Geomorphic Assessment of Receiving Channels 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 SummarySee Chapter 6 and Appendix G of the *BMP Design Manual* | [ ]  Included[ ]  Submitted as separate stand-alone document |
| Attachment 2E | Vector Control Plan  | [ ]  Included[ ]  Not required because BMPs will drain in less than 96 hours |

# attachment 2a – hydromodification management exhibit

For Attachment 2A, provide map(s) for the project site, titled “Hydromodification Management Exhibit.” The checklist below identifies minimum elements that must be included with the exhibit.

[ ]  Underlying hydrologic soil group

[ ]  Approximate depth to groundwater

[ ]  Existing natural hydrologic features (watercourses, seeps, springs, wetlands, etc.)

[ ]  Critical coarse sediment yield areas to be protected

[ ]  Existing topography and impervious areas

[ ]  Existing and proposed site drainage network and storm drain structures

[ ]  Proposed connections to offsite drainage

[ ]  Proposed demolition

[ ]  Proposed grading

[ ]  Proposed impervious features

[ ]  Proposed design features and surface treatments used to minimize imperviousness

[ ]  Points of Compliance for hydromodification management

[ ]  Existing and proposed drainage boundary and drainage area to each Point of Compliance (when necessary, create separate exhibits for pre-development and post-project conditions)

[ ]  Structural BMPs for hydromodification management (location, type, and size)

# ATTACHMENT 3 - BMP MAINTENANCE information

Each of the attachments indicated below should be considered for inclusion with the SWQMP. Use this checklist to indicate which attachments are included behind this coversheet.

|  |  |  |
| --- | --- | --- |
| **Attachment Sequence** | **Contents** | **Checklist** |
| Attachment 3A | Structural BMP Operations and Maintenance Plan | [ ]  IncludedSee Structural BMP Maintenance Information Checklist on the back of this Attachment cover sheet. |
| Attachment 3B | Draft Maintenance Agreement  | [ ]  Included[ ]  Not Applicable |

# Attachment 3a – maintenance plan requirements

For Attachment 3A, provide a BMP operation and maintenance plan (O&M Plan). The checklist below identifies minimum elements to be included with the O&M Plan. An O&M Plan template is available at:

<http://www.cityofvista.com/services/city-departments/community-development/building-planning-permits-applications/land-development-autocad-templates/storm-water-forms>

[ ]  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)

[ ]  Use of O&M Plan template, or plan of equivalent content

# attachment 3b – Maintenance agreement

All projects are required to maintain designed functionality of structural BMPs in perpetuity. Privately-owned projects must record a *Storm Drain Maintenance Agreement* with the County of San Diego Assessor’s Office. A template *Storm Drain Maintenance Agreement* is available at:

<http://www.cityofvista.com/services/city-departments/community-development/building-planning-permits-applications/land-development-autocad-templates/storm-water-forms>

# ATTACHMENT 4 - REQUIREMENTS FOR CONSTRUCTION PLANS

Section 8.2.2 of the *BMP Design Manual* identifies minimum requirements for storm drain construction plan sheets. Use this checklist to ensure project construction plans submitted for review include necessary information for storm drain improvements. Construction plans must include the following:

[ ]  All items identified in Section 8.2.2 of the *BMP Design Manual*.