# Kern Storm Water Resource Plan

# Project Submittal Form

**This form is to be electronically filled out and e-mailed to** [**LMarino@ppeng.com**](mailto:LMarino@ppeng.com) **by June 24, 2016.**

# Reference: [Storm Water Resource Plan Guidelines](http://www.waterboards.ca.gov/water_issues/programs/grants_loans/swgp/docs/prop1/swrp_finalguidelines_dec2015.pdf), December 15, 2015

State Water Resources Control Board

# Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

### Implementing Agency/ Organization / Individual:

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### Agency / Organization / Individual Address:

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### Possible Partnering Agencies:

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### Name:

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### Title:

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|  |  |  |
| --- | --- | --- |
| Telephone: |  | Fax: |
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### Email:

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### Website:

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### Project Name:

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Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

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| --- | --- | --- | --- | --- |
| Project Latitude: |  |  | Project Longitude: |  |

|  |  |
| --- | --- |
| Location Description: |  |

### Project Cooperating Agency(ies)/Organization(s)/Individual(s):

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### Project Status (e.g., new, ongoing, expansion, new phase):

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### Has the Project been submitted to IRWM Plan:

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Kern IRWMP | | | Poso Creek IRWMP | | | Not Submitted | | |
| Does the project address any known environmental justice issues? | | | | | | | | |
| Yes | | | No | | | Not Sure | | |
|  | | | | | | | | |
| Is the project located within or adjacent to a disadvantaged community (DAC)? Refer to this [website](http://www.water.ca.gov/irwm/grants/resources_dac.cfm). | | | | | | | | |
| Within | Adjacent | | | No | | | Not Sure | |
|  | | |  | | |  | | |
| Does the project include DAC participation? | | | | | | | | |
| Yes | | | No | | | Not Sure | | |
| If yes, please identify the contact person, group, or organization and describe the DAC’s participation: | | | | | | | | |
|  | | | | | | | | |

What is the DAC’s estimated population:

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Does the Implementing Agency own the land where the project is located? If no, describe ability to purchase land or if eminent domain is required:

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| --- | --- | --- |
| Yes | No |  |

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# Part 2. Project Need

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the planning area of the Kern Storm Water Resource Plan.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the proposed project will address. Discuss the benefits to water quality, water supply, flood management, environmental, and community benefits that the proposed project will bring. Discuss critical impacts or worsening conditions that will occur if the proposed project is not implemented.

### Project Need (Narrative)

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# Part 3. Project Description

A general description of the proposed project is needed. This section will provide information associated with the project concept and general project information. Much of the requested information may not be available for projects that are in the conceptual stages of development. An essential element of the Kern Storm Water Resource Plan consists of proposed projects. We appreciate and need your ideas.

Please provide a one or two paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, what technologies or methods will be used, as appropriate. For water quality projects, include a description of impacts to existing Total Maximum Daily Loads, NPDES permits, and/or waste discharge requirements.

### Project Description (Narrative)

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### If applicable, list surface water bodies and groundwater basins associated with the proposed project:

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### Please identify up to three available documents which contain information specific to the proposed project. Include conceptual plans, permits, drawings, and technical documents:

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### Please identify federal, state, or local permits, which pertain to the proposed project and would need to be obtained or, if existing, would need to be amended:

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### Please identify any existing projects or facilities, including existing water conveyance infrastructure, which would be affected, modified, or superseded as a result of implementing the proposed project:

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| Is the proposed project an element or phase of a regional or larger program?: | Yes  No |
| If yes, please identify the program: |  |
| Design life of the project: |  |
| Proposed Construction/Implementation Start Date: |  |
| Proposed Construction/Implementation  Completion Date: |  |
| Ready for Construction Bid: | Yes  No N/A |

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| --- | --- | --- | --- |
| Item | Status(e.g., not initiated, in process, complete) | Date (mm/dd/yyyy) | |
| Conceptual Plans |  |  |  |
| Land Acquisition/ Easements |  |  |  |
| Preliminary Plans |  |  |  |
| CEQA/NEPA |  |  |  |
| Permits |  |  |  |
| Construction Drawings |  |  |  |

For projects ready for construction or implementation, including projects which do not include construction, briefly describe the project’s readiness to proceed.

### Project Readiness (Narrative)

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Include any local or state board actions, code changes, or legislation needed in order to proceed with the project.

### Local or State Board Actions, Code Changes, or Legislation

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| Please describe the dominant existing land use type for the proposed project location. | |
|  | |
| Please describe the dominant existing land use type for areas upstream and downstream of the proposed project location | |
| Upstream: |  |
| Downstream: |  |
|  | |

# Part 4. Project Benefits

Please provide a one or two paragraph description of the benefit(s) that the project will address. Benefit Categories, shown below, are referenced from the [**Storm Water Resource Plan Guidelines**](http://www.waterboards.ca.gov/water_issues/programs/grants_loans/swgp/docs/prop1/swrp_finalguidelines_dec2015.pdf), Page 31, Table 4. Each project should address at least two or more Main Benefits and as many Additional Benefits as feasible. Information you provide will be used to evaluate the project for State grant funding.

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| **Storm Water Management Benefits** | | |
| **Benefit Category** | **Main Benefit** | **Additional Benefit** |
| **Water Quality**  (while contributing to compliance with applicable permit and/or TMDL requirements) | * Increased filtration and/or treatment of run-off | * Non-point source pollution control * Reestablished natural water drainage and treatment |
| **Water Supply**  (through groundwater management and/or run-off capture and use) | * Water supply reliability * Conjunctive use | * Water conservation |
| **Flood Management** | * Decreased flood risk by reducing run-off rate and/or volume | * Reduced sanitary sewer overflows |
| **Environmental and Habitat Enhancement** | * Environmental and habitat protection and improvement, including;   + wetland enhancement/creation;   + riparian enhancement; and/or   + instream flow improvement * Increased urban green space | * Reduced energy use, greenhouse gas emissions, or provides a carbon sink * Reestablishment of the natural hydrograph * Water temperature improvements |
| **Community Stewardship** | * Employment opportunities provided * Public Education | * Community involvement * Enhance and/or create recreational and public use areas |
| Source: Page 31, Table 4, Storm Water Resource Plan Guidelines, State Water Resources Control Board | | |

### Please provide the following Project BENEFIT information for all applicable components of the proposed project. Benefit categories include:

### Water Quality

### Water Supply

### Flood Management

### Environmental and Habitat Enhancement

### Community Stewardship

**If the project benefits a disadvantaged community (DAC) describe the specific benefits to that community. Estimate the percentage of the project benefits to the DAC.**

Please supply all information relevant to the proposed project. The information you provide will be used to evaluate the project for State grant funding. **Attach additional sheets if necessary.**

### Water Quality Benefits

1. Describe how the proposed project will improve source control for both pollution and dry weather runoff volume, onsite and local infiltration, and use of storm water and dry weather runoff.
2. Describe design criteria and best management practices to prevent storm water and dry weather runoff pollution and increase effective storm water and dry weather runoff management for new and upgraded infrastructure and residential, commercial, industrial, and public development
3. Describe how the proposed project complies with or is consistent with an applicable NPDES permit. The analysis should simulate the proposed watershed-based outcomes using modeling, calculations, pollutant mass balances, water volume balances, and/or other methods of analysis. Describe how the proposed project will contribute to the preservation, restoration, or enhancement or watershed processes (as described in Guidelines section VI.C.2.a)
4. Describe the water quality monitoring and data acquisition that will be implemented in conjunction with the proposed project. Describe the a) mechanisms by which data will be managed and stored; b) how data will be accessed by stakeholders and the public; c) how existing water quality and water quality monitoring will be assessed; d) frequency at which data will be updated; and e) how data gaps will be identified.

### Water Quality Benefits (Narrative)

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| Pollutant TMDL reduction (Volume per day) and (mass /unit volume) of most probable number of bacteria or indicator organisms (mpn/mL): |  |
| Increase in infiltration rate above existing condition: |  |
| Non-point source pollution control: |  |
| Does project affect an Existing NPDES Permit? If applicable, describe the need for a new NPDES Permit: |  |

### Water Supply Benefits

1. Describe how the proposed project captures and reuses storm water and dry weather runoff for groundwater recharge or storage for beneficial use.
2. Please provide detailed information to quantify how the proposed project will reduce existing potable water demand.
3. Describe the water supply monitoring and data acquisition that will be implemented in conjunction with the proposed project. Describe the a) mechanisms by which data will be managed and stored; b) how data will be accessed by stakeholders and the public; c) how existing water quality and water quality monitoring will be assessed; d) frequency at which data will be updated; and e) how data gaps will be identified

### Water Supply Benefits (Narrative)

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| Enhanced Water Supply or Demand Reduction Benefit Information | | | | | | | |
| **Source of Increased Supply or Demand Reduction** | | | | | | | |
| Groundwater | | | Groundwater treatment | | | Increased surface water storage | |
| Recycled water | | | Conservation/ water use   efficiency | | | Ocean desalination | |
| Transfer | | | Other (describe): | | | | |
| Type of enhanced supply or demand reduction: | | | |  | | | |
| Annual Yield of Supply (acre-feet): | | | |  | | | |
| **Availability by Water-Year Type (acre-feet per year)** | | | | | | | |
| Average Year: |  | | | | | | |
| Dry Year: |  | | | | | | |
| Wet Year: |  | | | | | | |
| **Availability by Season (check all that apply):** | | | | | | | |
| Summer | | Fall | | | Spring | | Winter |
| **Does the project have the potential to reduce export demands on the Sacramento San Joaquin Bay-Delta?** | | | | | | | |
| Yes | | No | | | Not Sure | |  |

### Flood Management Benefits

1. Describe how the proposed project will reestablish natural water drainage treatment and infiltration systems, or mimic natural system functions to the maximum extent feasible.
2. Describe how the proposed project will reduce flood risk by reducing runoff rate and/or volume.
3. If applicable, describe how the proposed project will reduce the risk of sanitary sewer overflows.

### Flood Management Benefits (Narrative)

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| Description facilities protected: |  |
| Maximum volume of temporary storage of storm water runoff (acre-feet): |  |
| Maximum increased conveyance capacity (cubic feet/second): |  |
| Estimated area benefiting from flood damage reduction (acres): |  |
| Estimated level of flood protection resulting from project implementation (% annual probability of recurrence or 1-in-number of years recurrence): |  |
| Estimated annual value of flood damage reduction provided by project ($/year): |  |
| Land required for project implementation (acres): |  |

### For projects that include detention and groundwater recharge, please complete the following:

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| How many acres of land drain into this detention basin? (acres): |  |
| Detention Basin area (acres): |  |
| Detention basin max. operational depth (ft.): |  |
| % of basin covered by wetlands: |  |
| Soil type: |  |
| If other than infiltration, identify method (e.g., injection) and recharge (acre-feet/year): |  |
| Estimated basin annual inflow (acre-feet/year): |  |
| Estimated basin annual outflow (acre-feet/year): |  |

### Environmental and Habitat Enhancement Benefits

Describe how the proposed project identifies opportunities to develop, restore, or enhance habitat and open space through storm water and dry weather runoff management, including wetlands, riverside habitats, parkways, and parks. Provide some type of quantitative measurement, which will show how the project benefits the environment and enhances the natural habitat.

### Environmental and Habitat Enhancement Benefits (Narrative)

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| Non-treatment wetland area (acres): |  |
| Treatment wetland area (acres): |  |
| Riparian habitat area (acres): |  |
| Non-developed open space area (acres): |  |
| Total Project area (acres): |  |

### Community Stewardship Benefits

Describe how the project identifies opportunities to use existing publicly owned lands and easements, including, but not limited to parks, open space, community gardens, farm and agricultural preserves, school sites, and government office buildings and complexes, to capture, clean, store, and use storm water and dry weather runoff either onsite or offsite. Provide some type of quantitative measurement, which will show how the project benefits the community.

### Community Stewardship Benefits (Narrative)

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### Multiple use/ recreation area (acres) – additionally, select the type of multiple use / recreation and associated acres by type:

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| --- | --- |
| Single Sport Athletics: |  |
| Multiple Sport Athletics Acres: |  |
| Other Recreation Acres: |  |
| Pedestrian Trail Acres: |  |
| Equestrian Trail Acres: |  |
| Other Passive Activity: |  |
| Other Acres (describe): |  |
| Description: |  |
| **Total Project Area (acres):** |  |

# Part 5. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and cost. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated costs of project implementation and associated funding source(s). These costs should include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

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| **Approximate Total Cost:**  (If project costs are variable, please include lower and upper range estimates.) |  |
| **Funding Source:**  (If multiple sources, list each source and the percent or amount funded by each) |  |
| **Maximum Funding Match from Implementing Agency:** |  |
| **Funding Certainty & Longevity:** |  |
| **Operations &  Maintenance Cost:**  (per year) |  |
| **Operations & Maintenance Funding Source(s)**  (i.e., annual budget, grant, etc. If multiple sources, list each source and the percent or amount funded by each.) |  |
| **Operations & Maintenance Funding Certainty:**  (i.e., already included in organization’s budget, contingent upon grant, etc.) |  |