

County of San Diego

Stormwater Quality Management Plan (SWQMP) For Priority Development Projects (PDPs)

Priority Development Project

Use for all PDPs (see Storm Water Intake Form, Part 4)

Project Information	
Project Name	Monserate Winery
Project Address	2757 Gird Road Fallbrook, CA 92028
Assessor's Parcel # (APN)	107-420-16, 107-420-17, 124-330-04, 124-330-14, 124-330-15, 124-330-20
Permit # / Record ID	PDS2018-MUP-74-165W1

Project Applicant / Project Proponent					
Name	Jade Work				
Address	1492 Rainbow Valley Road Fallbrook, CA 92028				
Phone	(760) 451-3400 Email: jwork@integritygolf.us				

SWQMP Preparer				
Name	Jay Sullivan, PE, CFM	1, QSD		
Company (if applicable)	Michael Baker International			
Address	9755 Clairemont Mesa Blvd. San Diego, CA 92124			
Phone	858-810-1474	Email: jsullivan@mbakerintl.com		
PE Number (if applicable)	RCE #77445			

Preparer's Certification

I understand that the County of San Diego has adopted minimum requirements for managing urban runoff, including storm water, from land development activities, as described in the County of San Diego BMP Design Manual. The BMP Design Manual is a design manual for compliance with local County of San Diego Watershed Protection Ordinance (Sections 67.801 et seq.) and regional MS4 Permit (California Regional Water Quality Control Board San Diego Region Order No. R9-2013-0001, as amended by Order No. R9-2015-0001 and Order No. R9-2015-0100) requirements for storm water management.

This SWQMP is intended to comply with applicable requirements of the BMP Design Manual. I certify that it has been completed to the best of my ability and accurately reflects the project being proposed and the applicable BMPs proposed to minimize the potentially negative impacts of this project's land development activities on water quality. I understand and acknowledge that the plan check review of this SWQMP by County staff is confined to a review and does not relieve me as the person in charge of overseeing the selection and design of storm water BMPs for this project, of my responsibilities for project design.

COUNTY ACCEPTED

SWQMP Approved By:

Approval Date:

* Note* Approval does not constitute compliance with regulatory requirements.

Template Date: December 11, 2018 Preparation Date: July 31, 2019

PDP SWQMP

Submittal Record: List the dates of SWQMP and plan submittals and updates. Briefly describe key changes from previous versions. If responding to plan check comments, note this in the entry and attach the responses as applicable.

No.	Date	Summary of Changes				
Preli	Preliminary Design / Planning / CEQA					
1	4/19/2019	Initial Submittal				
2	7/31/2019	Refined WQ and Hydromodification approach				
3	Date	Summary of Change				
4	Date	Summary of Change				
No.	Date	Summary of Change				
Fina	l Design					
1	Date	Initial Submittal				
2	Date	Summary of Change				
3	Date	Summary of Change				
4	Date	Summary of Change				
No.	Date	Summary of Change				
Plan	Changes					
1	Date	Initial Submittal				
2	Date	Summary of Change				
3	Date	Summary of Change				
4	Date	Summary of Change				
No.	Date	Summary of Change				

Template Date: December 11, 2018 Preparation Date: July 31, 2019

PDP SWQMP

PDP SWQMP Submittal Checklist

SWQMP Tables : All of the eight tables below must be completed.	
□ Table 1: Scope of SWQMP Submittal Pa	age 2
☐ Table 2: Baseline BMPs for Existing Natural Features and Proposed Features (Groups 1, 2, and 3)	age 3
□ Table 3: Baseline BMPs for Pollutant-generating Sources (Group 4) Pa	age 4
☑ Table 4: Infeasibility Justifications for Baseline BMPs	age 5
☑ Table 5: DMA Structural Compliance Strategies and Documentation Pa	age 6
☑ Table 6: Critical Coarse Sediment Yield Area (CCSYA) Requirements Pa	age 7
☑ Table 7: Minimum Construction Stormwater BMPs Pa	age 8
☑ Table 8: Infeasibility Justifications for Construction BMPs Pa	age 9
SWQMP Attachments ¹: Use the checklist below to identify which attachments will be included with this submittal. Attachments with boxes already checked (☒) are required for all projects. The applicability of other attachments will be determined upon completing this form.	
☑ Attachment 1: Storm Water Intake Form	
☑ Attachment 2: DMA Exhibits and Construction Plan Sheets	
☐ Attachment 3: Source Control BMP Worksheet	
☐ Attachment 4: Previous SWQMP Submittals	
☑ Attachment 5: Existing Site and Drainage Description	
☑ Attachment 6: Documentation of DMAs without Structural BMPs	
\square Attachment 7: Documentation of DMAs with Structural Pollutant Control BMPs	
\square Attachment 8: Documentation of DMAs with Structural Hydromodification Management B	3MPs
oxtimes Attachment 9: Management of Critical Coarse Sediment Yield Areas	
☑ Attachment 10: Installation Verification Form	
\square Attachment 11: BMP Maintenance Agreements and Plans	
\square Attachment 12: Documentation of Alternative Compliance Projects (ACPs)	
After completing the remainder of this form, check the applicable SWQMP Attachment boxes to summarize your selections.	0

Template Date: December 11, 2018 Preparation Date: July 31, 2019

PDP SWQMP Page | 1

¹ All SWQMP attachments are available at www.sandiego.gov/stormwater under the Development Resources tab. Some attachments are presented out of order because they are shared between multiple SWQMP forms.

Table 1 – Scope of SWQMP Submittal

Select one option below that describes the scope of thi	is SWQMP Submittal. Document your selection as indicated.
SWQMP Scope	Required Documentation
oxtimes a. SWQMP addresses the entire project	No additional documentation.
☐ b. SWQMP implements requirements of an earlier master SWQMP submittal	Include a copy of the previous submittal as Attachment 4 .
\square c. First of multiple SWQMP submittals	Use the spaces below to identify the elements addressed in this submittal and in future submittals.
(1) Elements addressed in current submittal (str	eets, common areas, first project phase, etc.):
(2) Elements to be addressed in future submittal	(s) (individual lots, future project phases, etc.):

Template Date: December 11, 2018 Preparation Date: July 31, 2019

Table 2 – Baseline BMPs for Existing and Proposed Site Features

Tal	Table 2 – Baseline Birrs for Existing and Proposed Site Features							
Site	Features	BMP Implementation						
Selec	ct each feature that applies.	Describe BMP implementation for each selected site feature.						
Gro	up 1: Existing Natural Site Fea	tures [S	See BMPDM Section	ns 4.3.1 an	d 4.3.2]			
		natı	ain & conserve ıral features (SD-G)	for waterbodies (SD-H)				
_	Natural waterbadies	Full	Partial	Full	Partial			
\boxtimes	Natural waterbodies	\boxtimes		⊠				
\boxtimes	Natural storage reservoirs & drainage corridors	\boxtimes						
\boxtimes	Natural areas, soils, & vegetation (incl. trees)	×						
Gro	up 2: Common Impervious Ou	tdoor S	ite Features [Se	e BMPDM	Sections 4.3.	3 and 4.3.5]		
			Disperse ervious areas (SD-B)	Use permeable materials (SD-D)		Minimize impervious areas (SD-I)		
_		Full	Partial —	Full	Partial 	☑ Check he	ere to confirm	
\boxtimes	Streets and roads						ious surfaces	
\boxtimes	Sidewalks & walkways			☒		have been n		
\boxtimes	Parking areas & lots		\boxtimes	☒		where applicable and feasible for all outdoor		
\boxtimes	Driveways		\boxtimes	\boxtimes		impervious areas. If not,		
\boxtimes	Patios, decks, & courtyards		\boxtimes	⊠		explain in Table 3.		
	Hardcourt recreation areas							
Gro	up 3: Other Outdoor Site Feati	ı res [Se	e BMPDM Section	s 4.2.6, 4.3	3.4, 4.3.5, 4.3.	7, and 4.3.8]		
	Rooftop areas	_	erse rooftop runoff (SD-B)	Install green roofs (optional; SD-C)		Use rain barrels to capture runoff (optional; SD-E)		
		Full	Partial \Box	Full	Partial \Box	Full	Partial	
<u> </u>	Tandana dana a	Z Z				П Ти::		
	Landscaped areas	la	vater-efficient ndscaping (SD-J)	Install efficient irrigation systems (SD-K)		Minimize erosion of slopes and surfaces (SD-L)		
		Full	Partial	Full	Partial	Full	Partial	
	XAZ . C							
Ш	Water features (pools, spas, etc.)	Provide a designated washing area (SC-A)		Drain feature to the sanitary sewer (if allowed) (SC-B)				
		Full	Partial \Box	Full	Partial —	Full	Partial	

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

Template Date: December 11, 2018 Preparation Date: July 31, 2019

Table 3 -Baseline BMPs for Pollutant-generating Sources (Group 4)

A. Requirements for Documentation Select either or both as applicable.	Completion of Part B is <u>not</u> required because: ☐ This is a Small Residential Project, OR ☐ None of these sources or features is proposed. ☐ Source Control BMP Requirements Worksh E.1-1 (SC in Appendix E of the BMP Design Manual) included as Attachment 3 (optional unless request by County staff).				ign Manual) is		
B. Sources and BMPs	SC-B	SC-C	SC-D	SC-E	SC-F	SC-G	SC-H
Select all proposed sources and features below. Then select the BMPs on the right to be implemented for each.	Plumb to sanitary sewer	Drain feature to a pervious area	Provide containment for spills and discharges	Prevent contact with rainfall	Isolate flows from adjacent areas	Prevent wind dispersal	Label with stencils or signs
Common Source Areas							
☑ Trash & Refuse Storage			×	×	×	×	
☐ Materials & Equipment Storage							
☐ Loading & Unloading							
☐ Fueling							
☐ Maintenance & Repair							
☐ Vehicle & Equipment Cleaning							
☑ Food Preparation or Service	\boxtimes		×	×	×		
Distributed Features							
☑ Storm drain inlets & catch basins							\boxtimes
☑ Interior floor drains and sumps							
☑ Drain lines (air conditioning, etc.)			×				
☐ Fire test sprinkler discharges	\boxtimes		×				

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

Note: Pollutant-generating sources and features may <u>not</u> discharge directly to the MS4. Discharging to any of the stormwater BMPs identified in Table 5 Part B is also discouraged. If doing so, however, the source or feature area must be included in applicable DCV calculations.

Template Date: December 11, 2018

PDP SWQMP

Table 4 - Explanations and Justifications for Table 2 and 3 Baseline BMPs

☑ Check here if no explanations or justifications for Table 2 or 3 BMPs are required.

- **Required Justifications**: If NO BMPs are selected for a source or feature, justify why <u>all</u> BMPs are either not applicable or are infeasible. For Group 2 features NO BMPs means not selecting either SD-B or SD-D.
- If Requested: Justify why individual BMPs will not be implemented or will only be partially implemented.
- Additional Explanation: Describe any proposed features and/or BMPs not listed in Tables 2 or 3.

BMP-Fe Combin		Explanation
Feature	Feature	Explanation
BMP	ВМР	
Feature	Feature	Explanation
ВМР	ВМР	
Feature	Feature	Explanation
BMP	ВМР	
Feature	Feature	Explanation
ВМР	ВМР	
Feature	Feature	Explanation
BMP	ВМР	
Feature	Feature	Explanation
BMP	ВМР	
Feature	Feature	Explanation
ВМР	ВМР	

Template Date: December 11, 2018 Preparation Date: July 31, 2019

Table 5: DMA Structural Compliance Strategies and Documentation Part A – Selection and Application Structural Performance Standards 1. Selection of Standards (select one; see BMPDM Section 6.1) ☑ a. Pollutant control + hydromodification b. Pollutant control only (project is exempt from hydromodification requirements) 2. Application of Structural Performance Standards (select one; see BMPDM Section 1.7) New Development Projects: Standards apply to all impervious surfaces. Redevelopment Projects: Complete the calculations below. Select the applicable scenario based on the results. b. Impervious area created / replaced (ft²) c. % Impervious created / replaced [(b/a)*100] a. Existing impervious area (ft²) 95.832 221,486 231 ☑ *Scenario 1: c is 50% or more*: Performance standards apply to all impervious surfaces (a + b). Scenario 2: c is less than 50%: Performance standards apply only to created or replaced impervious surfaces (b only). Part B – Compliance Strategies and Required Attachments Att. 1 Att. 2 Att. 3 Att. 4 Att. 5 **1.**Complete and submit each of the DMA Exhibits and Source Control BMP Previous SWQMP Storm Water Intake Existing Site and applicable attachments on the right. Construction Plan Worksheet Submittals **Drainage Description** Form Sheets (see Page 3) (see Page 1) X X X Att. 6 Att. 7 Att. 8 Att. 9 Att. 10 Att. 11 Att. 12 2. Indicate each compliance strategy below that will be Critical DMAs w/ used for one or more DMAs on the site. Structural Coarse **DMAs** DMAs w/ **Pollutant** without Structural Sediment Installation Maintenance Alternative Structural Control Hydromod. Yield Verification Compliance Agreements/ **BMPs BMPs** Form Plans Projects **BMPs** Areas \boxtimes \bowtie Self-mitigating DMAs (BMPDM Section 5.2.1) П П De Minimis DMAs (BMPDM Section 5.2.2) ⊠Self-retaining DMAs (BMPDM Section 5.2.3) \boxtimes \boxtimes Structural BMPs (select all that apply) Pollutant Control BMPs (BMPDM Section 5.4) П Hydromodification BMPs (BMPDM Chapter 6) Alternative Compliance Project (BMPDM Section 1.8) $\overline{\times}$ Please check this box after you complete this list. Corresponding attachments will be automatically selected on the right.

• Attachments 1, 2, and 5 are required for all projects.

Template Date: December 11, 2018

PDP SWQMP

P a g e | 6

Table 6: Critical Coarse Sediment Yield Area (CCSYA) Requirements

 Identify one applicable compliance pathway for the PDP below. Document your selection in Attachment 9.
A. Hydromodification Management Exemption (BMPDM Sections 1.6 and 6.1)
☐ PDP is Exempt from Hydromodification Management Requirements
Select if hydromodification management exemption was selected in Table 4 Part A.1.
B. Watershed Management Area (WMAA) Mapping (BMPDM Appendix H.1.1.2)
☑ WMAA mapping demonstrates the following:
a. <5% of potential onsite CCYSAs will be impacted (built on or obstructed)
b. All potential upstream offsite CCYSAs will be bypassed
C. Resource Protection Ordinance (RPO) Methods (BMPDM Appendix H.1.1.1)
C. Resource Protection Ordinance (RPO) Methods (BMPDM Appendix H.1.1.1) RPO Scenario 1: PDP is subject to and in compliance with RPO requirements
_
☐ RPO Scenario 1: PDP is subject to and in compliance with RPO requirements
☐ RPO Scenario 1: PDP is subject to and in compliance with RPO requirements a. Project requires one or more discretionary permits (RPO applicability is confirmed during discretionary review)
□ RPO Scenario 1: PDP is subject to and in compliance with RPO requirements a. Project requires one or more discretionary permits (RPO applicability is confirmed during discretionary review) b. Onsite AND upstream offsite CCSYAs will be avoided and/or bypassed
 □ RPO Scenario 1: PDP is subject to and in compliance with RPO requirements a. Project requires one or more discretionary permits (RPO applicability is confirmed during discretionary review) b. Onsite AND upstream offsite CCSYAs will be avoided and/or bypassed □ RPO Scenario 2: PDP is entirely exempt/not subject to RPO requirements²
 □ RPO Scenario 1: PDP is subject to and in compliance with RPO requirements a. Project requires one or more discretionary permits (RPO applicability is confirmed during discretionary review) b. Onsite AND upstream offsite CCSYAs will be avoided and/or bypassed □ RPO Scenario 2: PDP is entirely exempt/not subject to RPO requirements² a. Project does not require discretionary permits

Preparation Date: July 31, 2019

PDP SWQMP Page | 7

Template Date: December 11, 2018

² Does not include PDPs utilizing exemption(s) via RPO Section 86.604(e)(2)(cc) or 86.604(e)(3).

Table 7 - Minimum Construction Stormwater BMPs

Table 7 – Minimum Construction Stormwater BMPs Minimum Required BMPs by Activity Type	•	References			
Select all applicable activities and at least one BMP for each	Caltrans ³	County of San			
☐ Erosion Control for Disturbed Slopes (choose at least 1 per sea		Diego			
✓ Vegetation Stabilization Planting ⁴ (Summer)	SS-2, SS-4				
✓ Vegetation Stabilization Flanting (Summer) ✓ Hydraulic Stabilization Hydroseeding (Summer)	SS-2, SS-4 SS-4				
☐ Bonded Fiber Matrix or Stabilized Fiber Matrix ⁵ (Winter)	SS-3				
☐ Physical Stabilization Erosion Control Blanket ⁷ (Winter)	SS-7				
☐ Thysical Stabilization Erosion Control Blanket (Winter) ☐ Erosion control for disturbed flat areas (slope < 5%)	55-/				
☐ County Standard Lot Perimeter Protection Detail	SC-2	PDS 659 ⁶			
☐ Use of Item A erosion control measures on flat areas	SS-3, SS-4, SS-7	1 20 039			
☐ County Standard Desilting Basin (must treat all site runoff)	SC-2	PDS 660 ⁷			
✓ Mulch, straw, wood chips, soil application	SS-6, SS-8	120000			
⊠ Energy dissipation (required to control velocity for concen		atering discharge)			
☑ Energy Dissipater Outlet Protection	SS-10	RSD D-408			
☑ Sediment control for all disturbed areas	•				
☑ Silt Fence	SC-1				
☑ Fiber Rolls (Straw Wattles)	SC-5				
☑ Gravel & Sand Bags	SC-6, SC-8				
☐ Dewatering Filtration	NS-2				
☑ Storm Drain Inlet Protection	SC-10				
☐ Engineered Desilting Basin (sized for 10-year flow)	SC-2				
☐ Preventing offsite tracking of sediment					
☑ Stabilized Construction Entrance	TC-1				
☑ Construction Road Stabilization	TC-2				
☐ Entrance/Exit Tire Wash	TC-3				
☑ Entrance/Exit Inspection & Cleaning Facility	TC-1				
☑ Street Sweeping and Vacuuming	SC-7				
☑ Materials Management					
☑ Material Delivery & Storage	WM-1				
☑ Spill Prevention and Control	WM-4				
⊠ Waste Management ⁹					
☑ Waste Management Concrete Waste Management	WM-8				
☑ Solid Waste Management	WM-5				
☑ Sanitary Waste Management	WM-9				
☑ Hazardous Waste Management	WM-6				

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³ See Caltrans 2017 Storm Water Quality Handbooks, Construction Site BMP Manual, available at: (http://www.dot.ca.gov/hq/construc/stormwater/manuals.htm)

⁴ Planting or Hydroseeding may be installed between May 1st and August 15th. Slope irrigation must be in place and operable for slopes >3 feet. Vegetation must be watered and established prior to October 1st. A contingency physical BMP must be implemented by August 15th if vegetation is not established by that date. If landscaping is proposed, erosion control measures must also be used while landscaping is being established. Established vegetation must have a subsurface mat of intertwined mature roots with a uniform vegetative coverage of 70 percent of the natural vegetative coverage or more on all disturbed areas.

⁵ All slopes over three feet must have established vegetative cover prior to final permit approval. ⁶ County PDS 659. Standard Lot Perimeter Protection Design System (Bldg. Division)

⁷ County PDS 660. County Standard Desilting Basin for Disturbed Areas of 1 Acre or Less Bldg. Division

⁸ Regional Standard Drawing D-40 – Rip Rap Energy Dissipater (also acceptable for velocity reduction)

⁹ Applicants are responsible to apply appropriate BMPs for specific wastes (e.g., BMP WM-8 for concrete).

Table 8 – Explanations and Justifications for Construction Phase BMPs

☑ Check here if no explanations or justifications for Table 7 BMPs are required.

Justifications for Table 7 Temporary Construction Phase BMPs

- **Required Justifications**: Justify all construction activity types for which NO BMPs were selected.
- **If Requested**: Justify why specific individual BMPs were not selected.
- Additional Explanation: Describe any proposed features and/or BMPs not listed in Table 7.

Activity	Type / BMP	Explanation
Activity Type	Activity Type	Explanation
BMP	ВМР	
Activity Type	Activity Type	Explanation
BMP	ВМР	
Activity Type	Activity Type	Explanation
BMP	BMP	
Activity Type	Activity Type	Explanation
BMP	BMP	
Activity Type	Activity Type	Explanation
BMP	ВМР	
Activity Type	Activity Type	Explanation
BMP	BMP	
Activity Type	Activity Type	Explanation
BMP	ВМР	

Template Date: December 11, 2018 Preparation Date: July 31, 2019



2.0 General Requirements

- Attachment 2 consolidates exhibits and plans required for the entire project.
- Complete the table below to indicate which sub-attachments are included with the submittal. Sub-attachments that are not applicable can be excluded from the submittal.
- Unless otherwise stated, features and BMPs identified and described in each corresponding Attachment (6 through 9) must be shown on applicable DMA Exhibits and construction plans submitted for the project.

Sub-attachments	Requirement
⊠ 2.1: DMA Exhibits	All PDPs
☐ 2.2: Individual Structural BMP DMA Mapbook	PDPs with structural BMPs
⊠ 2.3: Construction Plan Sets	All projects

2.1 DMA Exhibits

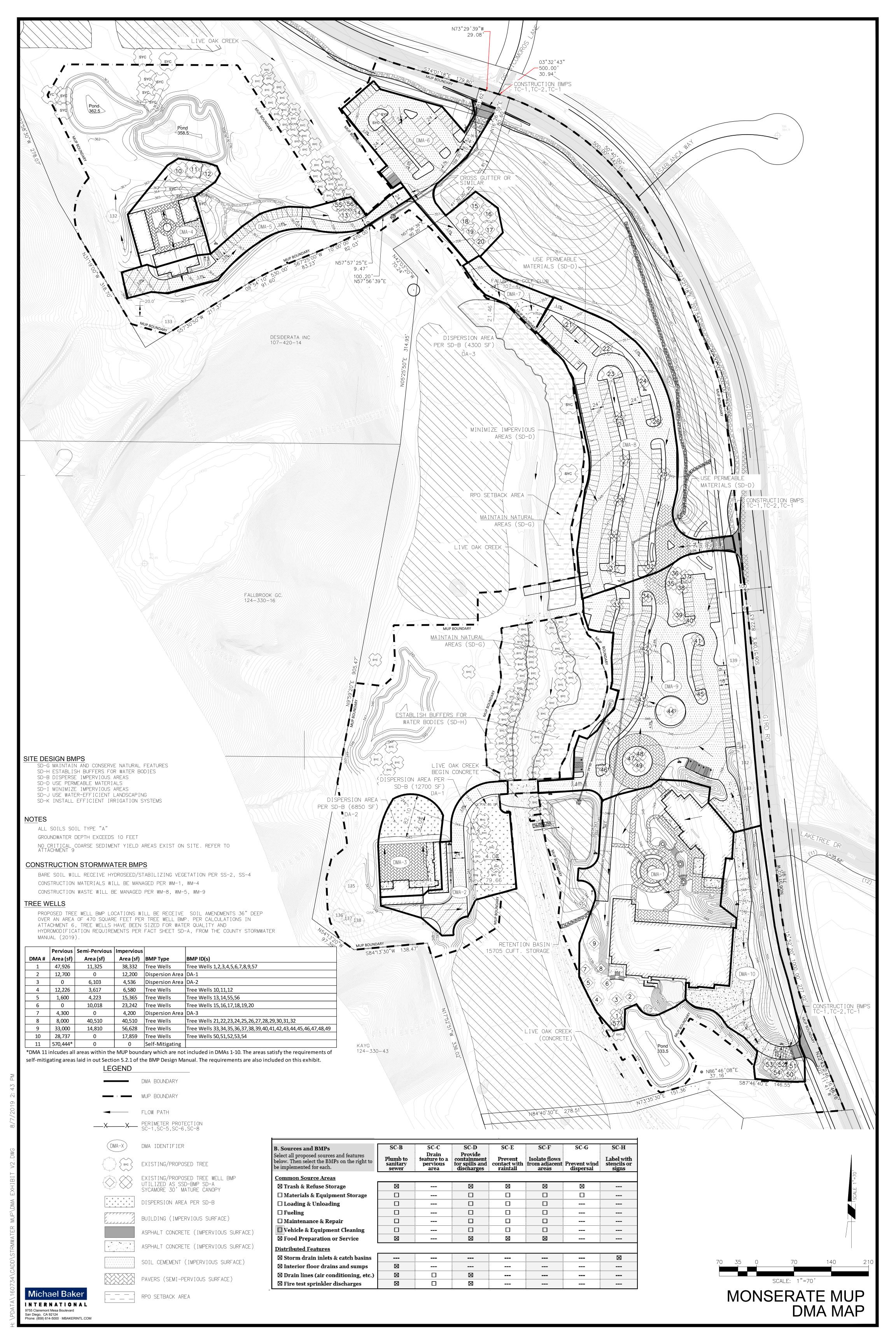
- DMA Exhibits must show all DMAs on the project site. Exhibits must include all applicable features identified in applicable SWQMP attachments.
- Exhibits may be prepared individually for the BMPs associated with each applicable SWQMP Attachment (6, 7, 8, and/or 9) or combined into one or more consolidated exhibits.
- Use this checklist to ensure required information is included on each exhibit (copy as needed).

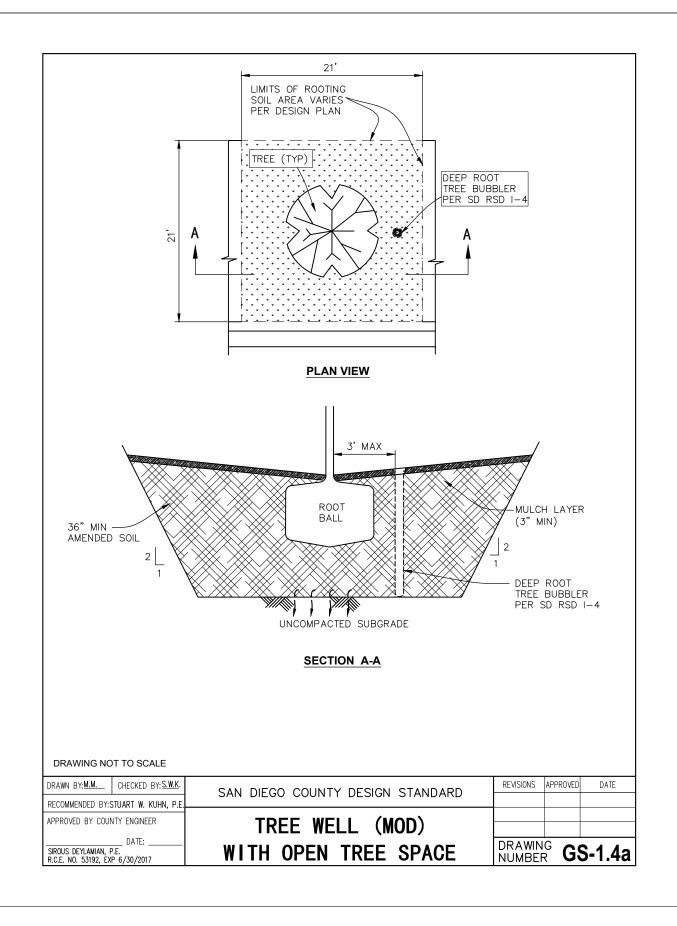
DMA Exhibit ID #:	DMA Exhibit			
A. Features require	d for all exhibits			
1. Existing Site Feat	tures			
□ Underlying hydro	ologic soil group (A, B, C, D)	□ Topography and impervious areas		
⋈ Approximate dep	th to groundwater	⊠ Existing drainage network, directions,		
Natural hydrologic	ic features	and offsite connections		
2. Drainage Manage	ement Area (DMA) Informatio	n		
□ Proposed drainage	ge network, directions, and	☑ DMA boundaries, ID numbers, areas,		
offsite connection	ıs	and type (structural BMP, de minimis,		
		etc.)		
3. Proposed Site Ch	anges, Features, and BMPs			
□ Proposed demolit	tion and grading	⊠ Construction BMPs ²		
\boxtimes Group 1, 2, and 3	Features ¹	oxtimes Baseline source control BMPs		
⊠ Group 4 Features		oxtimes Baseline source control BMPs		
B. Proposed Featur	es and BMPs Specific to Indivi	dual SWQMP Attachments ³		
⊠ Attachment 6	⊠ SSD-BMP impervious dispers	ion areas		
[⊠ SSD-BMP tree wells			
☐ Attachment 7	\square Structural pollutant control B	MPs		
☐ Attachment 8	\square Structural hydromodification	management BMPs		
[\square Point(s) of Compliance (POC)	for hydromodification management		
[\square Proposed drainage boundary	and drainage area to each POC		
☐ Attachment 9	□ Onsite CCSYAs □ Bypass	of onsite CCSYAs		
	* *	of upstream offsite CCSYAs		

¹ Group 1-4 features and baseline BMPs from PDP SWQMP Tables 2 and 3.

² Minimum Construction Stormwater BMPs from PDP SWQMP Table 7.

³ Identify the location, ID numbers, type, and size/detail of BMPs.





Monserate Winery Dispersion DMA Equivalent Areas for DMAs including Both Impervious and Semi-Pervious Surfaces

County Worksheet B.1 does not automatically calculate the dispersion requirement for semi-pervious surfaces. To account for semi-pervious surfaces being directed to dispersion area, the semi-pervious area is added to the impervious area total after being reduced by a factor of 3. The reduction factor is based on the County C-value of semi-pervious surfaces (C=0.30) and impervious surfaces (C=0.90).

Line 11 of County Worksheet B.1 reflects the values calculated on this sheet.

DMA 3		
Impervious	4536 SF	
Semi-Pervious	6103 SF	
Equivalent Impervious	6570 SF	

Automated Worksheet B.1: Calculation of Design Capture Volume (V2.0)

Category #	Drainage Basin ID or Name 85th Percentile 24-hr Storm Depth Impervious Surfaces Not Directed to Dispersion Area (C=0.90) Semi-Pervious Surfaces Not Serving as Dispersion Area (C=0.30) Engineered Pervious Surfaces Not Serving as Dispersion Area (C=0.10) Natural Type A Soil Not Serving as Dispersion Area (C=0.10) Natural Type B Soil Not Serving as Dispersion Area (C=0.14) Natural Type C Soil Not Serving as Dispersion Area (C=0.23) Natural Type D Soil Not Serving as Dispersion Area (C=0.23) Natural Type D Soil Not Serving as Dispersion Area (C=0.30) Does Tributary Incorporate Dispersion, Tree Wells, and/or Rain Barrels? Impervious Surfaces Directed to Dispersion Area per SD-B (Ci=0.90)	DMA-1 0.62 38,332 11,325 47,926	DMA-2 0.62 Yes	DMA-3 0.62	DMA-4 0.62 6,580 3,617	DMA-5 0.62 15,365 4,223 2,200	DMA-6 0.62 23,242 10,018	DMA-7 0.62	DMA-8 0.62 40,510 40,510 8,000	DMA-9 0.62 56,628 14,810	DMA-10 0.62 17,859 28,737	Units unitless inches sq-ft sq-ft sq-ft sq-ft sq-ft sq-ft
3 3 4 4 Drainage Basin 5 6 7 8 9 10 11 11 11 11 11 11	85th Percentile 24-hr Storm Depth Impervious Surfaces Not Directed to Dispersion Area (C=0.90) Semi-Pervious Surfaces Not Serving as Dispersion Area (C=0.30) Engineered Pervious Surfaces Not Serving as Dispersion Area (C=0.10) Natural Type A Soil Not Serving as Dispersion Area (C=0.10) Natural Type B Soil Not Serving as Dispersion Area (C=0.14) Natural Type C Soil Not Serving as Dispersion Area (C=0.23) Natural Type D Soil Not Serving as Dispersion Area (C=0.23) Natural Type D Soil Not Serving as Dispersion Area (C=0.30) Does Tributary Incorporate Dispersion, Tree Wells, and/or Rain Barrels? Impervious Surfaces Directed to Dispersion Area per SD-B (Ci=0.90)	0.62 38,332 11,325 47,926	0.62		0.62 6,580 3,617	0.62 15,365 4,223	0.62 23,242		0.62 40,510 40,510	0.62 56,628 14,810	0.62 17,859	inches sq-ft sq-ft sq-ft sq-ft
Standard 4 Drainage Basin 5 Inputs 6 7 8 9 10 11	Impervious Surfaces Not Directed to Dispersion Area (C=0.90) Semi-Pervious Surfaces Not Serving as Dispersion Area (C=0.30) Engineered Pervious Surfaces Not Serving as Dispersion Area (C=0.10) Natural Type A Soil Not Serving as Dispersion Area (C=0.10) Natural Type B Soil Not Serving as Dispersion Area (C=0.14) Natural Type C Soil Not Serving as Dispersion Area (C=0.23) Natural Type D Soil Not Serving as Dispersion Area (C=0.30) Natural Type D Soil Not Serving as Dispersion Area (C=0.30) Does Tributary Incorporate Dispersion, Tree Wells, and/or Rain Barrels? Impervious Surfaces Directed to Dispersion Area per SD-B (Ci=0.90)	38,332 11,325 47,926	Voc		6,580 3,617	15,365 4,223	23,242		40,510 40,510	56,628 14,810	,	sq-ft sq-ft sq-ft sq-ft
Drainage Basin 5 Inputs 6 7 8 9 10 11	Semi-Pervious Surfaces Not Serving as Dispersion Area (C=0.30) Engineered Pervious Surfaces Not Serving as Dispersion Area (C=0.10) Natural Type A Soil Not Serving as Dispersion Area (C=0.10) Natural Type B Soil Not Serving as Dispersion Area (C=0.14) Natural Type C Soil Not Serving as Dispersion Area (C=0.23) Natural Type D Soil Not Serving as Dispersion Area (C=0.30) Natural Type D Soil Not Serving as Dispersion Area (C=0.30) Does Tributary Incorporate Dispersion, Tree Wells, and/or Rain Barrels? Impervious Surfaces Directed to Dispersion Area per SD-B (Ci=0.90)	11,325 47,926	Voc		3,617	4,223	· · ·		40,510	14,810	28,737	sq-ft sq-ft sq-ft
Inputs 6 7 8 9 10 11	Natural Type A Soil Not Serving as Dispersion Area (C=0.10) Natural Type B Soil Not Serving as Dispersion Area (C=0.14) Natural Type C Soil Not Serving as Dispersion Area (C=0.23) Natural Type D Soil Not Serving as Dispersion Area (C=0.30) Natural Type D Soil Not Serving as Dispersion Area (C=0.30) Does Tributary Incorporate Dispersion, Tree Wells, and/or Rain Barrels? Impervious Surfaces Directed to Dispersion Area per SD-B (Ci=0.90)	,	Voc		12,226	2,200			8,000	33,000	28,737	sq-ft sq-ft
Inputs 6 7 8 9 10 11	Natural Type B Soil Not Serving as Dispersion Area (C=0.14) Natural Type C Soil Not Serving as Dispersion Area (C=0.23) Natural Type D Soil Not Serving as Dispersion Area (C=0.30) Does Tributary Incorporate Dispersion, Tree Wells, and/or Rain Barrels? Impervious Surfaces Directed to Dispersion Area per SD-B (Ci=0.90)	,	Voc		12,226	2,200			8,000	33,000	28,737	
9 10 11	Natural Type C Soil Not Serving as Dispersion Area (C=0.23) Natural Type D Soil Not Serving as Dispersion Area (C=0.30) Does Tributary Incorporate Dispersion, Tree Wells, and/or Rain Barrels? Impervious Surfaces Directed to Dispersion Area per SD-B (Ci=0.90)	Yes	Voc									
9 10 11	Natural Type D Soil Not Serving as Dispersion Area (C=0.30) Does Tributary Incorporate Dispersion, Tree Wells, and/or Rain Barrels? Impervious Surfaces Directed to Dispersion Area per SD-B (Ci=0.90)	Yes	Voc									
10 11	Does Tributary Incorporate Dispersion, Tree Wells, and/or Rain Barrels? Impervious Surfaces Directed to Dispersion Area per SD-B (Ci=0.90)	Yes	Voc									sq-ft
11	Impervious Surfaces Directed to Dispersion Area per SD-B (Ci=0.90)	Yes	Voc									sq-ft
			168	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	yes/no
12	Semi-Pervious Surfaces Serving as Dispersion Area per SD-R (Ci=0.30)		12,200	6,570				4,200				sq-ft
	Semi-rervious surfaces serving as Dispersion ratea per 3D-b (G1-0.50)											sq-ft
13	Engineered Pervious Surfaces Serving as Dispersion Area per SD-B (Ci=0.10)		12,700	6,850				4,300				sq-ft
Dispersion 14	Natural Type A Soil Serving as Dispersion Area per SD-B (Ci=0.10)											sq-ft
Area, Tree Well & Rain Barrel	Natural Type B Soil Serving as Dispersion Area per SD-B (Ci=0.14)											sq-ft
Inputs 16	Natural Type C Soil Serving as Dispersion Area per SD-B (Ci=0.23)											sq-ft
(Optional) 17	Natural Type D Soil Serving as Dispersion Area per SD-B (Ci=0.30)											sq-ft
18	Number of Tree Wells Proposed per SD-A	10			3	4	6		12	17	5	#
19	Average Mature Tree Canopy Diameter	30			30	30	30		30	30	30	ft
20	Number of Rain Barrels Proposed per SD-E											#
21	O Company of the Comp											gal
22	Total Tributary Area	97,583	24,900	13,420	22,423	21,788	33,260	8,500	89,020	104,438	46,596	sq-ft
Initial Runoff 23		0.44	0.00	0.00	0.37	0.70	0.72	0.00	0.56	0.56	0.41	unitless
Factor 24		0.00	0.49	0.49	0.00	0.00	0.00	0.50	0.00	0.00	0.00	unitless
Calculation 25	Ų	0.44	0.49	0.49	0.37	0.70	0.72	0.50	0.56	0.56	0.41	unitless
26		2,218	630	340	429	788	1,237	220	2,576	3,022	987	cubic-feet
27	1 1	0	12,200	6,570	0	0	0	4,200	0	0	0	sq-ft
Dispersion 28	1	0	12,700	6,850	0	0	0	4,3 00	0	0	0	sq-ft
Area 29	1 1 1	n/a	1.00	1.00	n/a	n/a	n/a	1.00	n/a	n/a	n/a	ratio
Adjustments 30	/ 1	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	ratio
31	1 1	0.44	0.00	0.00	0.37	0.70	0.72	0.00	0.56	0.56	0.41	unitless
32		2,218	0	0	429	788	1,237	0	2,576	3,022	987	cubic-feet
Tree & Barrel 33		4,200	0	0	1,260	1,680	2,520	0	5,040	7,140	2,100	cubic-feet
Adjustments 34		0	0	0	0	0	0	0	0	0	0	cubic-feet
35	,	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	unitless
Results 36		0	0	0	0	0	0	0	0	0	0	sq-ft
37	0 1	4,200	630	340	1,260	1,680	2,520	220	5,040	7,140	2,100	cubic-feet
No Warning Message	0 1	0	0	0	0	0	0	0	0	0	0	cubic-feet

2.3 Construction Plan Sets

- DMAs, features, and BMPs identified and described in this attachment must also be shown on all applicable construction and landscape plans.
- As applicable, plan sheets must identify:
 - o All features and BMPs identified in Sub-attachment 2.1 (DMA Exhibits).
 - The additional information listed below.
- Use this checklist to ensure required information is included on each plan (copy as needed).

Plan Type

Required Information⁴

- ⊠ Structural BMP(s) and Significant Site Design BMPs (if applicable) with ID numbers.
- ☑ 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) and Significant Site Design BMPs (if applicable).
- ⊠ Signage indicating the location and boundary of structural BMP(s) as required by County staff.
- ☑ 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).
- 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 (if available) showing vegetation requirements for vegetated structural BMP(s).
- \boxtimes All BMPs must be fully dimensioned on the plans.
- ☑ When proprietary BMPs are used, site-specific cross-section with outflow, inflow, and manufacturer model number must be provided. Photocopies of general brochures are not acceptable.
- ☑ Include all source control and site design measures described in the SWQMP.
- ☑ Include all construction BMPs described in the SWQMP.

County of San Diego SWQMP Sub-attachment 2.3 (Construction Plans) Page 2.3-1 Template Date: January 16, 2019 Preparation Date: 7/31/2019

⁴ For Building Permit Applications, refer to Form PDS 272, https://www.sandiegocounty.gov/content/dam/sdc/pds/docs/pds272.pdf

5.0 General Requirements

- Each Priority Development Project (PDP) must provide a description of existing site conditions and proposed changes to them, including changes to topography and drainage.
- Has a Drainage Report has been prepared for the PDP?

⊠ Yes

- o Review of the Drainage Report must be concurrent with the PDP SWQMP.
- o Include the summary page of the Drainage Report with this cover page, and provide the following information:

Title: Hydrology Study for Monserate MUP
Prepared By: Micheal Baker International
Date: July 30, 2019

- o Do not complete the rest of this attachment (also exclude these additional pages from your submittal). Additional documentation of site and drainage conditions is not required unless requested by County staff.
- □ **No** -- Complete and submit the remainder of this attachment below.

6.0 General Requirements

• Use this attachment to document all proposed (1) self-mitigating, (2) de minimis, and (3) self-retaining DMAs. Indicate under "DMA Compliance Option" below which design options will be used to satisfy structural performance requirements for one or more DMA.

DMA Compliance Option	Required Sub-attachments	BMPDM Design Resources
⊠ Self-mitigating	• Sub-attachment 6.1	• BMPDM Section 5.2.1
☐ De minimis	• Sub-attachment 6.2	BMPDM Section 5.2.2
⊠ Self-retaining¹	• Sub-attachment 6.3	BMPDM Section 5.2.3 (all options)
SSD-BMP Type(s) ☑ Impervious Area Dispersion	• Sub-attachment 6.3.1	• Fact Sheet SD-B (Appendix E.8)
⊠ Tree Wells	• Sub-attachment 6.3.2	• Fact Sheet SD-A (Appendix E.7)

- Submit this cover page and all "Required Sub-attachments" listed for each selected DMA compliance option.
- See the BMPDM sections and appendices listed under "BMPDM Design Resources" for additional explanation of design requirements. Each constructed feature must <u>fully</u> satisfy the requirements described in these resources, and any other guidance identified by the County.
- <u>DMA Exhibits and Construction Plans</u>: DMAs, features, and BMPs identified and described in this attachment must be shown on DMA Exhibits and all applicable construction plans submitted for the project. See Attachment 2 for additional instruction on exhibits and plans.

County of San Diego SWQMP Attachment 6.0 (Cover Sheet)

Template Date: January28, 2019

Page 6.0-1

Preparation Date: 7/30/2019

¹ If "Self-retaining" is selected, also choose the types of Significant Site Design BMPs (SSD-BMPs) to be used. SSD-BMPs are Site Design BMPs that are sized and constructed to fully satisfy all applicable Structural Performance Standards for a DMA.

6.1 Self-mitigating DMAs (complete this page once for ALL self-mitigating DMAs)

Self-mitigating DMAs consist of natural or landscaped areas that drain directly offsite or to the public storm drain system. These DMAs are excluded from DCV calculations.

• Provide the information requested below for each proposed self-mitigating DMA. Add rows or copy the table if additional entries are needed.

DMA #	# a. DMA Incidental Impervious Area		npervious Area			
	Area (ft²)	b. Size(ft²)	c. % (b/a*100)	Permit # and Sheet #		
11	570,444	0	0	PDS2018-MUP-74-165W1		

- "DMA #", "DMA Area", and "Permit # and Sheet #" are required for all DMAs listed.
- "Incidental Impervious Area" calculations are required only where applicable (see below).
- Each self-mitigating DMA must <u>fully</u> satisfy all design requirements and restrictions described in BMPDM Section 5.2.1 and any other guidance or instruction identified by the County. Check the boxes below to confirm that all required conditions are satisfied <u>for every DMA listed</u>.
 - ☑ Each DMA is hydraulically separate from other DMAs that contain permanent storm water pollutant control BMPs.

Natural and Landscaped Areas

- ☑ Each DMA consists solely of natural or landscaped areas, except for incidental impervious areas (see below).
- ☑ Each area drains directly offsite or to the public storm drain system.
- ☑ Soils are undisturbed native topsoil, or disturbed soils that have been amended and aerated to promote water retention characteristics equivalent to undisturbed native topsoil.
- ☑ Vegetation is native and/or non-native/non-invasive drought tolerant species that do not require regular application of fertilizers and pesticides.

Incidental Impervious Areas (if applicable; see above)

Minor impervious areas may be permitted within the DMA if they satisfy the following criteria:

- ☐ They are not hydraulically connected to other impervious areas (unless it is a storm water conveyance system such as a brow ditch).
- \square They comprise less than 5% of the total DMA. Calculate the % incidental impervious area in the table above (c= b/a). DMAs are <u>not</u> self-mitigating if this area is 5% or greater.

6.2 De Minimis DMAs (complete this page once for ALL de minimis DMAs)

De minimis DMAs consist of areas too small to be considered significant contributors of pollutants and not practicable to drain to a BMP. They are excluded from DCV calculations. Examples include driveway aprons connecting to existing streets, portions of sidewalks, retaining walls, and similar features at the external boundaries of a project.

• Provide the information requested below for each proposed de minimis DMA. Add rows or copy the table if additional entries are needed.

DMA #	DMA Area (ft²)	Permit # and Sheet #

- "DMA #", "DMA Area", and "Permit # and Sheet #" are required.
- Check the boxes below to confirm that each required condition is satisfied for ALL de minimis DMAs on the site.

\square Each DMA listed is less than 250 square feet and not adjacent or hydraulically connect	ed
to each other.	

\square Each DMA listed <u>fully</u> satisfies all design requirements and restriction	ns described in
BMPDM Section 5.2.2 De Minimis DMAs.	

6.3 Self-retaining DMAs using Significant Site Design BMPs

Self-retaining DMAs use Site Design BMPs to fully-retain the entire DCV, at a minimum. Site Design BMPs that fully retain the DCV, at a minimum, therefore replacing the need for a Structural BMP (S-BMP), are classified as Significant Site Design BMPs (SSD-BMPs). To satisfy pollutant control requirements only, self-retaining means retention of the entire DCV. However, under some circumstances, a self-retaining DMA can also satisfy hydromodification management requirements by implementing BMPs that retain a greater volume of runoff.

• Provide the information requested below for each proposed self-retaining DMA. Add rows or copy the table if additional entries are needed.

		BMP Type (cho	ose one per DMA)	
		Dispersion		
DMA #	DMA Area	Area	Tree Wells	
	(ft²)	(Att. 6.3.1)	(Att. 6.3.2)	Permit # and Sheet #
1	97,476			PDS2018-MUP-74-165W1
2	12,670	\boxtimes		PDS2018-MUP-74-165W1
3	13,420	×		PDS2018-MUP-74-165W1
4	22,423		⊠	PDS2018-MUP-74-165W1
5	18,100		⊠	PDS2018-MUP-74-165W1
6	22,280		⊠	PDS2018-MUP-74-165W1
7	5,300	×		PDS2018-MUP-74-165W1
8	89,588		⊠	PDS2018-MUP-74-165W1
9	104,800		⊠	PDS2018-MUP-74-165W1
10	40,000		⊠	PDS2018-MUP-74-165W1

- "DMA #", "DMA Area", and "Permit # and Sheet #" are required.
- Select one BMP Type per DMA. Provide detailed documentation for each DMA in Attachments 6.3.1 (Impervious Dispersion Areas) and/or 6.3.2 (Tree Wells) below.
- Each self-retaining DMA must <u>fully</u> satisfy all design requirements and restrictions described in BMPDM Section 5.2.3, applicable BMPDM Appendix E Fact Sheets, and any other guidance or instruction identified by the County.

County of San Diego SWQMP Sub-attachment 6.3.1 (Impervious Area Dispersion) Page 6.3.1-1 Template Date: January 28, 2019 Preparation Date: 7/30/2019

²Applicants wishing to utilize parameters less conservative than listed here must submit modeling to support their proposal. Consult your project manager for more information.

³Including the permeable pavement.

6.3.1 Self-retaining DMAs with Impervious Dispersion Areas

Impervious area dispersion (dispersion) refers to the practice of effectively disconnecting impervious areas from directly draining to the storm drain system by routing runoff from impervious areas such as rooftops (through downspout disconnection), walkways, and driveways onto the surface of adjacent pervious areas. The intent is to slow runoff discharges and reduce volumes. Dispersion with partial or full infiltration results in significant volume reduction by means of infiltration and evapotranspiration. When adequately sized, dispersion can also be used to satisfy both the pollutant control and hydromodification management structural performance standards for a DMA.

- Each self-retaining DMA with impervious area dispersion must fully satisfy all design requirements and restrictions described in BMPDM Section 5.2.3, Fact Sheet SD-B: Impervious Area Dispersion, and any other guidance or instruction identified by the County.
- Documentation of compliance with all applicable conditions must be submitted with this subattachment using the *Summary Sheet for DMAs with Impervious Area Dispersion* on the next page. One version of this Summary Sheet must be completed for each applicable DMA.
- Applicants are responsible to comply with all other applicable requirements, regardless of whether they are included in the summary sheet.
- The following applies if the dispersion area is **native soil** (SD-B in Appendix E):
 - For pollutant control only, the DMA is considered self-retaining if the impervious to pervious ratio is:
 - 2:1 when the pervious area is composed of Hydrologic Soil Group A
 - 1:1 when the pervious area is composed of Hydrologic Soil Group B
- The following applies if the dispersion area includes **amended soil** (SD-B in Appendix E):
 - DMAs using impervious area dispersion can be considered to meet both pollutant control
 and hydromodification flow control requirements if the impervious to pervious area ratio is
 1:1 or less and all other design requirements of SD-B are satisfied, including 11 inches of
 amended soil.
- The following apply if the dispersion area is **permeable pavement** (SD-D in Appendix E):
 - o For pollutant control only, a DMA is considered self-retaining if the ratio of total drainage area (including permeable pavement) to area of permeable pavement is 1.5:1 or less, and all other design requirements of SD-D are satisfied.
 - Hydromodification management performance standards can be satisfied using permeable pavement only if constructed to Structural BMP specifications. In this case, the permeable pavement must be sized and constructed in accordance with the requirements of INF-3.

County of San Diego SWQMP Sub-attachment 6.3.1 (Impervious Area Dispersion) Page 6.3.1-2 Template Date: January 28, 2019 Preparation Date: 7/30/2019

²Applicants wishing to utilize parameters less conservative than listed here must submit modeling to support their proposal. Consult your project manager for more information.

³Including the permeable pavement.

Summary Sheet for DMAs with Impervious Area Dispersion (Complete 1 sheet per DMA)

DMA # DMA-2, DA-1								
A. Minimum Sizing Requirem	ents							
Verify that minimum standards	are satisfied for the applicable disp	ersion area type below².						
Native Soil (Pollutant Contro	l Only) Select one and provide calcu	lations below.						
☐ <u>Soil Group A</u> : Ratio I:P is 2:	1 or less \Box Soil Group B: Ratio I:	P is 1:1 or less						
Impervious Area (ft²)	Permeable Dispersion Area (ft²)	Ratio I:P						
Amended Soil (Pollutant Con	trol plus Hydromodification Mana	agement)						
Must satisfy both conditions an	d provide calculations below.							
⊠ Ratio I:P is 1:1 or less, AND								
	o of the pervious area consists of am							
Impervious Area (ft²)	Permeable Dispersion Area (ft²)	Ratio I:P						
12200	12700	0.96						
Permeable Pavement (Pollut	ant Control Only) Provide calculati	ons below.						
☐ Ratio DMA area to area of p	ermeable pavement is 1.5:1 or less							
DMA Area³ (ft²)	Permeable Pavement Area (ft²)	Ratio DMA:Pavement						
B. Minimum Design Criteria								
Check the boxes below to confi	rm that each design criterion has be	en satisfied for the DMA.						
Impervious Areas:								
_	that the full DCV drains to the dispe	rsion area before the runoff						
discharges from the DMA.								
Pervious Dispersion Areas:	I sheet flow over a distance of at leas	et 10 feet from inflow to						
overflow route.	i sheet how over a distance of at leas	st 10 leet iroin iiiiow to						
☐ Have inflow velocities of 3	ft/s or less OR use energy dissipation	on methods (e.g., riprap, level						
spreader) for concentrated								
	regetated with drought tolerant spec							
_ = = =	le of supporting or being amended to	o support vegetation (e.g., with						
_ = = = = = = = = = = = = = = = = = = =	rahle, media amendments have beer							
sand or compost). If applicable, media amendments have been tested to verify that they are not a source of pollutants.								
-	owner and will be dedicated to exclu	tested to verify that they are						

County of San Diego SWQMP Sub-attachment 6.3.1 (Impervious Area Dispersion) Page 6.3.1-3 Template Date: January 28, 2019 Preparation Date: 7/30/2019

²Applicants wishing to utilize parameters less conservative than listed here must submit modeling to support their proposal. Consult your project manager for more information.

³Including the permeable pavement.

DMA # DMA-3, DA-2		
A. Minimum Sizing Requirem	ents	
Verify that minimum standards	are satisfied for the applicable disp	ersion area type below².
Native Soil (Pollutant Control	Only) Select one and provide calcu	lations below.
\square Soil Group A: Ratio I:P is 2:1	or less \square Soil Group B: Ratio I	:P is 1:1 or less
Impervious Area (ft²)	Permeable Dispersion Area (ft²)	Ratio I:P
Amended Soil (Pollutant Cont	rol plus Hydromodification Man	agement)
Must satisfy both conditions and	d provide calculations below.	
⊠ Ratio I:P is 1:1 or less, AND		
-	of the pervious area consists of am	
Impervious Area (ft²)	Permeable Dispersion Area (ft²)	Ratio I:P
6570	6850	0.96
	ant Control Only) Provide calculati	ons below.
	ermeable pavement is 1.5:1 or less	
DMA Area³ (ft²)	Permeable Pavement Area (ft²)	Ratio DMA:Pavement
B. Minimum Design Criteria		
Check the boxes below to confir	m that each design criterion has be	en satisfied for the DMA.
Impervious Areas:	Land Chronical Land	
☑ Are graded to ensure area to discharges from the DMA.	hat the full DCV drains to the dispe	rsion area before the runoff
Pervious Dispersion Areas:		
-	sheet flow over a distance of at least	st 10 feet from inflow to
overflow route.		
	ft/s or less OR use energy dissipation	on methods (e.g., riprap, level
spreader) for concentrated	inflows. egetated with drought tolerant spec	riac
	e of supporting or being amended t	
	able, media amendments have beer	
-	wner and will be dedicated to exclu	de future uses that might

County of San Diego SWQMP Sub-attachment 6.3.1 (Impervious Area Dispersion) Page 6.3.1-4 Template Date: January 28, 2019 Preparation Date: 7/30/2019

²Applicants wishing to utilize parameters less conservative than listed here must submit modeling to support their proposal. Consult your project manager for more information.

³Including the permeable pavement.

DMA # DMA-7, DA-3		
A. Minimum Sizing Requireme	ents	
Verify that minimum standards	are satisfied for the applicable disp	persion area type below².
Native Soil (Pollutant Control	Only) Select one and provide calcu	ılations below.
\square Soil Group A: Ratio I:P is 2:1	or less \square <u>Soil Group B</u> : Ratio I	:P is 1:1 or less
Impervious Area (ft²)	Permeable Dispersion Area (ft²)	Ratio I:P
Amended Soil (Pollutant Cont	rol plus Hydromodification Man	agement)
Must satisfy both conditions and	provide calculations below.	
⊠ Ratio I:P is 1:1 or less, AND		
	of the pervious area consists of an	· · · · · · · · · · · · · · · · · · ·
Impervious Area (ft²)	Permeable Dispersion Area (ft²)	Ratio I:P
4200	4300	0.98
	nt Control Only) Provide calculat	ions below.
\square Ratio DMA area to area of pe	rmeable pavement is 1.5:1 or less	
DMA Area³ (ft²)	Permeable Pavement Area (ft²)	Ratio DMA:Pavement
B. Minimum Design Criteria		
Check the boxes below to confirm	m that each design criterion has be	en satisfied for the DMA.
Impervious Areas:		
_	hat the full DCV drains to the dispe	rsion area before the runoff
discharges from the DMA. Pervious Dispersion Areas:		
-	sheet flow over a distance of at lea	st 10 feet from inflow to
overflow route.		
	t/s or less OR use energy dissipation	on methods (e.g., riprap, level
spreader) for concentrated		
	getated with drought tolerant spec	
	e of supporting or being amended table, media amendments have been	
-	wner and will be dedicated to exclu	ide future uses that might

County of San Diego SWQMP Sub-attachment 6.3.1 (Impervious Area Dispersion) Page 6.3.1-5 Template Date: January 28, 2019 Preparation Date: 8/5/2019

²Applicants wishing to utilize parameters less conservative than listed here must submit modeling to support their proposal. Consult your project manager for more information.

³Including the permeable pavement.

6.3.2 Self-retaining DMAs with Tree Wells

Trees wells can provide a variety of benefits such as interception and increased infiltration of rainfall, reduced erosion, energy conservation, air quality improvement, and aesthetic enhancement. They can also be used to satisfy both pollutant control and hydromodification management performance standards for a DMA.

- Each self-retaining DMA with tree wells must fully satisfy all design requirements and restrictions described in BMPDM Section 5.2.3, Fact Sheet SD-A: Tree Wells, and any other guidance or instruction identified by the County.
- For pollutant control only, the DMA must retain the entire DCV. For hydromodification management, an additional volume must be retained in accordance with the sizing requirements presented in the DCV multiplier table in Fact Sheet SD-A.
- Documentation of compliance with applicable conditions must be submitted using the *Summary Sheet for Self-retaining DMAs with Tree Wells* on the next page. One version of this Summary Sheet must be completed for each applicable DMA.
- If both pollutant control and hydromodification standards apply, the soil depth of all tree wells in the DMA must be selected before determining the Required Retention Volume (RRV). Each tree well must be constructed to the selected depth. For pollutant control only, tree wells within a DMA may be constructed to different soil depths.
- In most cases tree wells must use Amended Soil per Fact Sheet SD-F. However, Structural Soil is required in some cases (e.g., placing the tree well next to a curb). See *Structural Requirements for Confined Tree Well Soil Volume* in Fact Sheet SD-A for additional explanation. If applicable, list the DMAs and Tree Well #s below for all tree wells requiring Structural Soil.

DMA #	Tree Wells Requiring Structural Soil (list Tree Well #s)

• The Design Capture Volume (DCV) must be known for each DMA in order to determine the volume to be mitigated by the tree wells. Instructions for DCV calculation are provided in BMPDM Appendix B.1. An automated version of Worksheet B.1 (Calculation of Design Capture Volume) is available at www.sandiegocounty.gov/stormwater under the Development Resources tab.

County of San Diego SWQMP Sub-attachment 6.3.2 (Tree Wells)

Template Date: January 28, 2019

Page 6.3.2-1

Preparation Date: 7/30/2019

Summary Sheet for Self-retaining DMAs with Tree Wells (complete one sheet per DMA)

DMA #: DMA 1	OMA Area	(ft²): 97	,583	
Required Retention Volume (RRV)				
a. Design Capture Volume (DCV; ft³): 2,218				
b. DCV Multiplier (Fact Sheet SD-A)				
Applicable Structural Performance Standards (select one)	Tree we depth (i		Underlying soil type (A, B, C, or D)	DCV Multiplier
☐ Pollutant control only	Any	У	All	1.0
☑ Pollutant control plus hydromodification	36		A	1.8
c. Required Retention Volume (ft³) [DCV * D	CV Multipl	ier]		3,992
Tree Well Credit Volume (add records or cop	y this shee	t as need	led for additional tree	wells)
Provide the information below for each tree we entry can be used for any group of tree wells of	- 1			. A single
Tree species or name Sycamore			No. tree wells	10
Mature Canopy Diameter (ft) 30	Credit	t Volum	e per tree well (ft³)	420
Tree well ID #(s) 1,2,3,4,5,6,7,8,9,57,		Com	bined Volume (ft ³)	4200
Tree species or name			No. tree wells	
Mature Canopy Diameter (ft)	Credit		e per tree well (ft ³)	
Tree well ID #(s)		Com	bined Volume (ft ³)	
Tree species or name			No. tree wells	
Mature Canopy Diameter (ft)	Credit	t Volum	e per tree well (ft³)	
Tree well ID #(s)		Com	bined Volume (ft ³)	
Tree species or name			No. tree wells	
Mature Canopy Diameter (ft)	Credit	t Volum	e per tree well (ft³)	
Tree well ID #(s)		Com	bined Volume (ft³)	
Tree species or name			No. tree wells	
Mature Canopy Diameter (ft)	Credit	t Volum	e per tree well (ft³)	
Tree well ID #(s)		Com	bined Volume (ft³)	
Add the combined volumes above. Total credit	t volume m		Credit Volume (ft3) all or exceed the RRV.	4200

DMA #: DMA 4	DMA	Area	(ft²): 22	2,423	
Required Retention Volume (RRV)					
a. Design Capture Volume (DCV; ft ³): 42	29				
b. DCV Multiplier (Fact Sheet SD-A)					
Applicable Structural Performance Stand (select one)		ree we	ell soil nches)	Underlying soil type (A, B, C, or D)	DCV Multiplier
\square Pollutant control only		An	у	All	1.0
⊠ Pollutant control plus hydromodifica	ition	36)	A	1.8
c. Required Retention Volume (ft³) [D0	CV * DCV N	Iultipl	ier]		772
Tree Well Credit Volume (add records of	or copy thi	s shee	t as nee	ded for additional tree	wells)
Provide the information below for each to entry can be used for any group of tree w					. A single
Tree species or name Sycamore				No. tree wells	3
Mature Canopy Diameter (ft) 30		Credi	t Volum	e per tree well (ft³)	420
Tree well ID #(s) 10,11,12			Con	nbined Volume (ft³)	1,260
Tree species or name				No. tree wells	
Mature Canopy Diameter (ft)		Credi	t Volum	e per tree well (ft³)	
Tree well ID #(s)			Con	nbined Volume (ft³)	
Tree species or name				No. tree wells	
Mature Canopy Diameter (ft)		Credi	t Volum	e per tree well (ft³)	
Tree well ID #(s)			Con	nbined Volume (ft³)	
Tree species or name				No. tree wells	
Mature Canopy Diameter (ft)		Credi	t Volum	e per tree well (ft³)	
Tree well ID #(s)			Con	nbined Volume (ft³)	
Tree species or name			-	No. tree wells	
Mature Canopy Diameter (ft)		Credi	t Volum	e per tree well (ft³)	
Tree well ID #(s)			Con	nbined Volume (ft³)	
Add the combined volumes above. Total	credit vol	ume m		Credit Volume (ft3) al or exceed the RRV.	1,260

DMA #: DMA-5	D	MA Area	(ft²): 21	,788	
Required Retention Volume (RRV)					
a. Design Capture Volume (DCV; ft³): 7	88				
b. DCV Multiplier (Fact Sheet SD-A)					
Applicable Structural Performance Stand (select one)	lards	Tree we		Underlying soil type (A, B, C, or D)	DCV Multiplier
☐ Pollutant control only		An	у	All	1.0
☑ Pollutant control plus hydromodific	ation	36)	A	1.8
c. Required Retention Volume (ft³) [D	CV * D(EV Multipl	ier]		1418
Tree Well Credit Volume (add records	or copy	this shee	t as need	led for additional tree	wells)
Provide the information below for each t entry can be used for any group of tree w					. A single
Tree species or name Sycamore				No. tree wells	2
Mature Canopy Diameter (ft) 30	Credit Volume per tree well (ft³)				420
Tree well ID #(s) 13,14,55,56			Com	bined Volume (ft³)	840
Tree species or name				No. tree wells	
Mature Canopy Diameter (ft)		Credi	t Volum	e per tree well (ft³)	
Tree well ID #(s)			Com	bined Volume (ft³)	
Tree species or name	1			No. tree wells	
Mature Canopy Diameter (ft)		Credi		e per tree well (ft³)	
Tree well ID #(s)			Com	bined Volume (ft³)	
Tree species or name	1			No. tree wells	
Mature Canopy Diameter (ft)		Credi		e per tree well (ft³)	
Tree well ID #(s)			Com	bined Volume (ft³)	
Tree species or name				No. tree wells	
Mature Canopy Diameter (ft)		Credi		e per tree well (ft³)	
Tree well ID #(s)			Com	bined Volume (ft³)	
Add the combined volumes above. Total	credit	volume m		Credit Volume (ft3) al or exceed the RRV.	840

DMA #: DMA-6		D	MA Area (ft²): 33	,260	
Required Retention Vo	lume (RRV)				
a. Design Capture Volu	me (DCV; ft³):	1237			
b. DCV Multiplier (Fact	Sheet SD-A)				
Applicable Structural Per (select one)	formance Stai	ndards	Tree well soil depth (inches)	Underlying soil type (A, B, C, or D)	DCV Multiplier
☐ Pollutant control on	ly		Any	All	1.0
⊠ Pollutant control plu	ıs hydromodif	ication	36	A	1.8
c. Required Retention V	/olume (ft³) [DCV * D	CV Multiplier]		2226
Tree Well Credit Volum	ie (add record	s or copy	y this sheet as need	led for additional tree	wells)
Provide the information entry can be used for any					. A single
Tree species or name	Sycamore			No. tree wells	6
Mature Canopy Diamet	er (ft) 30		420		
15,16,17,18,19,20		Combined Volume (ft³)			
Tree species or name				No. tree wells	
Mature Canopy Diamet	er (ft)			e per tree well (ft³)	
			Com	bined Volume (ft³)	
Tree species or name				No. tree wells	
Mature Canopy Diamet	er (ft)			e per tree well (ft³)	
			Com	bined Volume (ft³)	
Tree species or name				No. tree wells	
Mature Canopy Diamet	er (ft)			e per tree well (ft³)	
			Com	bined Volume (ft³)	
Tree species or name				No. tree wells	
Mature Canopy Diamet	er (ft)			e per tree well (ft³)	
			Com	bined Volume (ft³)	
Add the combined volur	nes above. Tot	al credit		Credit Volume (ft3) all or exceed the RRV.	2,520

DMA #: DMA-8		D	MA Area (ft²): 89	,020	
Required Retention Volun	ie (RRV)				
a. Design Capture Volume	(DCV; ft³): 2	576			
b. DCV Multiplier (Fact She	et SD-A)				
Applicable Structural Perfor (select one)	mance Stand	lards	Tree well soil depth (inches)	Underlying soil type (A, B, C, or D)	DCV Multiplier
☐ Pollutant control only			Any	All	1.0
⊠ Pollutant control plus h	ydromodific	ation	36	A	1.8
c. Required Retention Volu	ı me (ft³) [D	CV * D	CV Multiplier]		4637
Tree Well Credit Volume (Provide the information beloentry can be used for any gr	ow for each t	ree we	ll or group of tree	wells within the DMA	
Tree species or name Sy	camore			No. tree wells	12
Mature Canopy Diameter	(ft) 30		Credit Volum	e per tree well (ft³)	420
21,22,23,24,25,26,27,28,29,32	30,31,		Com	bined Volume (ft³)	5040
Tree species or name				No. tree wells	
Mature Canopy Diameter	(ft)		Credit Volum	e per tree well (ft³)	
			Com	bined Volume (ft³)	
Tree species or name				No. tree wells	
Mature Canopy Diameter	(ft)		Credit Volum	e per tree well (ft ³)	
			Com	bined Volume (ft ³)	:
Tree species or name				No. tree wells	
Mature Canopy Diameter	(ft)		Credit Volum	e per tree well (ft³)	
			Com	bined Volume (ft³)	
Tree species or name				No. tree wells	
Mature Canopy Diameter	[ft)	<u> </u>		e per tree well (ft³)	
			Com	bined Volume (ft³)	
Add the combined volumes	above. Total	l credit		Credit Volume (ft3) all or exceed the RRV.	5,040

DMA #: DMA-9		D	MA Area (ft²): 10	4,438	
Required Retention Vo	lume (RRV	7)			
a. Design Capture Volu	me (DCV; f	t³): 3022			
b. DCV Multiplier (Fact	Sheet SD-A	A)			
Applicable Structural Per (select one)	formance	Standards	Tree well soil depth (inches)	Underlying soil type (A, B, C, or D)	DCV Multiplier
☐ Pollutant control on	ly		Any	All	1.0
⊠ Pollutant control plu	ıs hydromo	dification	36	A	1.8
c. Required Retention V	olume (ft	³) [DCV * D	CV Multiplier]		5440
Tree Well Credit Volum	•				
Provide the information entry can be used for any					. A single
Tree species or name	Sycamore	<u>'</u>		No. tree wells	17
Mature Canopy Diamet	er (ft) 30 Credit Volume per tree well (ft³)				420
33,34,35,36,37,38,39,40, 44,45,46,47,48,49	41,42,43,	3, Combined Volume (ft ³)			7140
Tree species or name				No. tree wells	
Mature Canopy Diamet	er (ft)		Credit Volum	e per tree well (ft³)	
			Com	nbined Volume (ft³)	
Tree species or name				No. tree wells	
Mature Canopy Diamet	er (ft)		Credit Volum	e per tree well (ft³)	
			Com	ibined Volume (ft ³)	
Tree species or name				No. tree wells	
Mature Canopy Diamet	er (ft)		Credit Volum	e per tree well (ft³)	
			Com	bined Volume (ft³)	
Tree species or name				No. tree wells	
Mature Canopy Diamet	er (ft)		Credit Volum	e per tree well (ft³)	
			Com	ibined Volume (ft³)	
Add the combined volun	nes above.	Total credit		Credit Volume (ft3) al or exceed the RRV.	7140

DMA #: DMA-10		D	MA Area (ft²): 46	,596	
Required Retention Vo	lume (RRV)				
a. Design Capture Volu	me (DCV; ft³)): 987			
b. DCV Multiplier (Fact	Sheet SD-A)				
Applicable Structural Per (select one)	rformance St	andards	Tree well soil depth (inches)	Underlying soil type (A, B, C, or D)	DCV Multiplier
☐ Pollutant control on	ly		Any	All	1.0
⊠ Pollutant control plu	ıs hydromod	ification	36	A	1.8
c. Required Retention V	/olume (ft³)	[DCV * D0	CV Multiplier]		1777
Tree Well Credit Volum	ie (add recor	ds or copy	this sheet as need	led for additional tree	wells)
Provide the information entry can be used for any					. A single
Tree species or name	Sycamore			No. tree wells	5
Mature Canopy Diamet	er (ft) 30		Credit Volum	e per tree well (ft³)	420
50,51,52,53,54			Com	bined Volume (ft ³)	2100
Tree species or name				No. tree wells	
Mature Canopy Diamet	er (ft)			e per tree well (ft³)	
			Com	bined Volume (ft³)	
Tree species or name				No. tree wells	
Mature Canopy Diamet	er (ft)		Credit Volum	e per tree well (ft³)	
			Com	bined Volume (ft³)	
Tree species or name				No. tree wells	
Mature Canopy Diamet	er (ft)		Credit Volum	e per tree well (ft³)	
			Com	bined Volume (ft³)	
Tree species or name				No. tree wells	
Mature Canopy Diamet	er (ft)		Credit Volum	e per tree well (ft³)	
			Com	bined Volume (ft³)	
Add the combined volur	nes above. To	otal credit		Credit Volume (ft3) al or exceed the RRV.	2100



County of San Diego Stormwater Quality Management Plan (SWQMP)

Attachment 9: Management of Critical Coarse Sediment Yield Areas

9.0 General Requirements

- Complete the table below to indicate which compliance pathway was selected in PDP SWQMP
 Table 6. Include the corresponding sub-attachment with your SWQMP submittal. Other subattachments do not need to be included.
- See the BMPDM sections and appendices listed under "BMPDM Design Resources" for additional explanation of design requirements. Constructed features must <u>fully</u> satisfy the requirements described in these resources, and any other guidance identified by the County.
- <u>DMA Exhibits and Construction Plans</u>: CCSYAs and applicable BMPs identified and described in this attachment must be shown on DMA Exhibits and all applicable construction plans submitted for the project. See Attachment 2 for additional instruction on exhibits and plans.

Sub-attachments	BMPDM Design Resources
☐ 9.1: Documentation of Hydromodification Management Exemption¹	Section 1.6
☑ 9.2: Watershed Management Area Analysis (WMAA) Mapping¹	Appendix H.1.1.2
☐ 9.3: Resource Protection Ordinance (RPO) Methods	Appendix H.1.1.1
☐ 9.4: No Net Impact Analysis	Appendix H.4

County of San Diego SWQMP Attachment 9.0 (General Requirements) Page 9.0-1 Template Date: January 11, 2019 Preparation Date: 7/31/2019

¹ The San Diego County Regional comprehensive WMAA mapping data can be found on the Project Clean Water website here: http://www.projectcleanwater.org/download/wmaa_attc_data/

9.2 Watershed Management Area Analysis (WMAA) Mapping (BMPDM Appendix H.1.1.2)

Watershed Management Area Analysis (WMAA) mapping is a simple way to screen projects to determine the presence of onsite or offsite upstream Potential Critical Coarse Sediment Yield Areas (PCCSYAs). The San Diego County Regional WMAA mapping data can be found on the Project Clean Water website here: http://www.projectcleanwater.org/download/wmaa_attc_data/.3

- Based on the WMAA map and the proposed project design, demonstrate below that both of the following conditions apply to the PDP:
 - (a) Less than 5% of PCCSYAs will be impacted (built on or obstructed) by the PDP, and
 - (b) All upstream offsite PCCYSAs will be bypassed (see BMPDM Appendix H.3).

A. Mapping Results At a minimum, show: (1) the project footprint, (2) areas of proposed development, (3) impacted onsite PCCSYAs, (4) offsite tributary areas ⁴ , and (5) bypass of upstream offsite PCCSYAs.

County of San Diego SWQMP Sub-attachment 9.2 (Mapping Results)

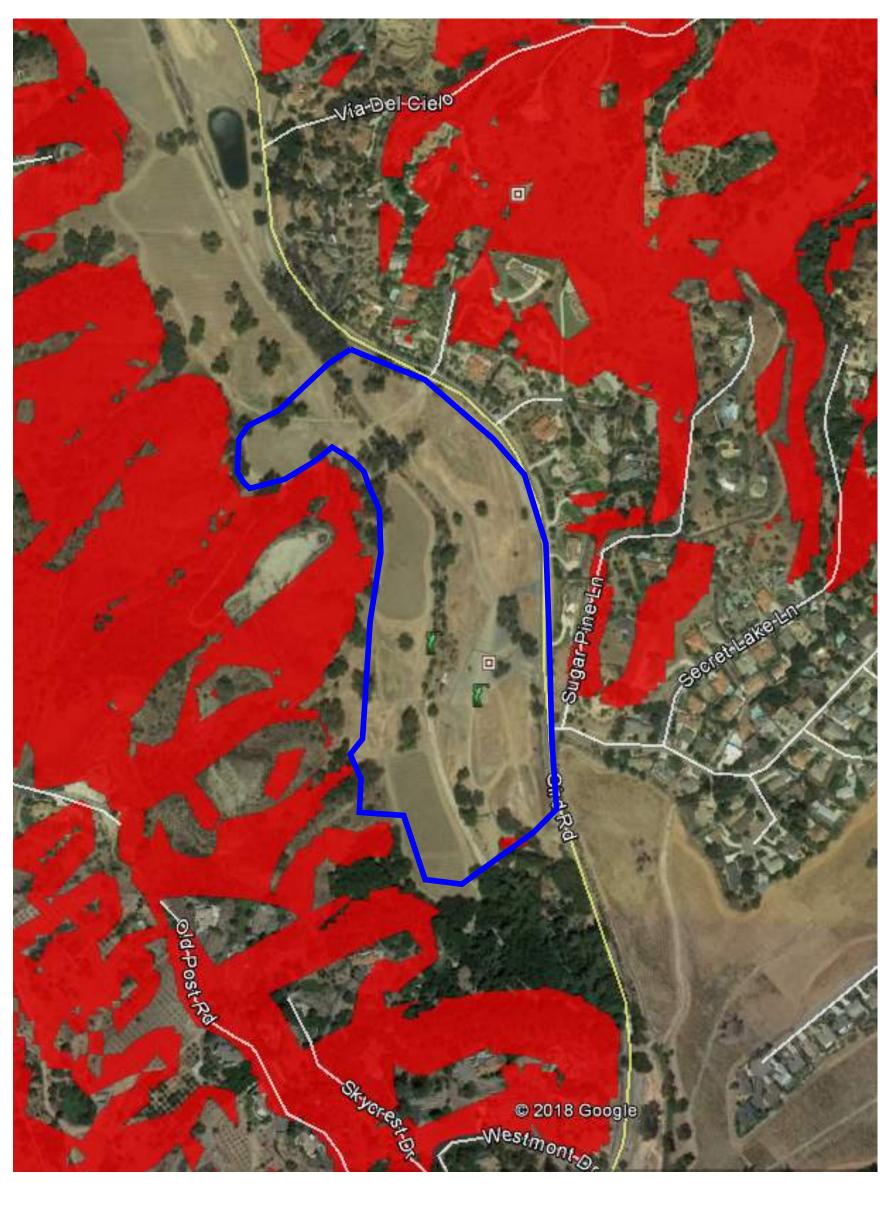
Template Date: January 11, 2019

Page 9.2-1

Preparation Date: 7/31/2019

³ Applicants may refine initial mapping results using options identified in BMPDM Appendix H.1.2.

⁴ Tributary areas must be shown to demonstrate that upstream offsite PCCSYAs do not exist. If bypassing these areas, only the bypass should be shown.



Project Boundary

Critical Coarse Sediment Yield Area

Critical Coarse Sediment Yield Area



9755 Clairemont Mesa Boulevard San Diego, CA 92124 Phone: (858) 614-5000 · MBAKERINTL.COM

B. Explanation Provide documentation as needed to demonstrate that (1) impacts to PCCSYAs are below 5%, and (2) upstream offsite PCCYSAs are effectively bypassed. Add pages as necessary.
are below 5%, and (2) upstream offsite PCCYSAs are effectively bypassed. Add pages as

This form must be accepted by the County prior to the release of construction permits or granting of occupancy for applicable portions of a Priority Development Project (PDP). Its purpose is to provide documentation of the final installation of permanent Best Management Practices (BMPs) used to satisfy Structural Performance Standards for the development project. Compliance with these standards reduces the discharge of pollutants and flows from the completed project site. Applicable standards may be satisfied using Structural BMPs (S-BMPs), Significant Site Design BMPs (SSD-BMPs), or both. Applicants are responsible for providing all requested information. Do not leave any fields blank; indicate *N/A* for any requested item that is not applicable.

PART 1 General Project and Applicant Information

Table 1: Project and Applicant Information

A. Project Summary Information		ID No. IVF-20 To be assigned by DPW-WPP		
Project Name	Monserate Winery			
Record ID (e.g. grading/improvement plan number, building permit)	PDS2018-MUP-74-165W	1		
Project Address	2757 Gird Road Fallbrook	, CA 92028		
Assessor's Parcel Number(s) APN(s)	107-420-16, 107-420-17, 124-330-04, 124-330-14, 124-330-15, 124-330-20			
Project Watershed (complete Hydrologic Unit, Area, and Subarea Name with Numeric Identifier)	San Luis Rey, Lower San Luis, Bonsall 903.12			
B. Owner Information				
Name	Jade Work			
Address	1492 Rainbow Valley Road Fallbrook, CA 92028			
Email Address	jwork@integritygolf.us			
Phone Number	(760) 451-3400			

County of San Diego SWQMP Attachment 10 Template Date: January 28, 2019

PART 2 DMA and BMP Inventory Information

Use this table to document Structural BMPs (S-BMPs) and Significant Site Design BMPs (SSD-BMPs) for the PDP. All DMAs that are not self-mitigating or de minimis must have at least one Structural BMP or Significant Site Design BMP.

- In Part A, list all Structural BMPs (including both Pollutant Control and/or Hydromodification as applicable) by DMA.
- Complete **Part B** for all DMAs that contain only Significant Site Design BMPs. SSD-BMPs are Site Design BMPs (SD-BMPs) that are sized and constructed to satisfy Structural Performance Standards for a DMA.
- Documentation of SD-BMPs is not required in this table for any DMA that also contains S-BMPs.
- The information provided for each BMP in the table must match that provided in the Stormwater Quality Management Plan (SWQMP), construction plans, maintenance agreements, and other relevant project documentation.

Table 3: Required Information for Structural BMPs and Significant Site Design BMPs

DMA #	BMP Information			Maintenance Category	Maintenance Agreement	Construction	Landscape Plan #	FOR DPW-
	Quantity	Description/Type of Structural BMP	BMP ID #(s)		or Maintenance Notification Recorded Doc. #	Plan Sheet #	& Sheet # (For Vegetated BMPs Only)	WPP USE ONLY Reviewer concurs that the BMP(s) may be accepted into inventory (date and initial)
Part A	Part A Structural BMPs (S-BMPs)							
Add ro	ws as neede	ed						
Part B	Significant	Site Design BMPs (SSD-BMPs)						
1	10	Tree Well	1,2,3,4,5,6,7,8,9,57					
2	12200sf	Dispersion Area	DA-1					
3	6850 sf	Dispersion Area	DA-2					
4	3	Tree Well	10,11,12					



County of San Diego

Stormwater Quality Management Plan (SWQMP) Attachment 10: Installation Verification Form for Priority Development Projects

4	Tree Well	13,14,55,56					
6	Tree Well	15,16,17,18,19,20					
4200 sf	Dispersion Area	DA-3					
12	Tree Well	21,22,23,24,25,26					
		27,28,29,30,31,32					
17	Tree Well	33,34,35,36,37,38,39,40,41					
		42,43,44,45,46,47,48,49					
2	Tree Well	50,51,52,53,54					
	6 4200 sf 12	6 Tree Well 4200 sf Dispersion Area 12 Tree Well 17 Tree Well	6 Tree Well 15,16,17,18,19,20 4200 sf Dispersion Area DA-3 12 Tree Well 21,22,23,24,25,26 27,28,29,30,31,32 17 Tree Well 33,34,35,36,37,38,39,40,41 42,43,44,45,46,47,48,49	6 Tree Well 15,16,17,18,19,20 4200 sf Dispersion Area DA-3 12 Tree Well 21,22,23,24,25,26 27,28,29,30,31,32 17 Tree Well 33,34,35,36,37,38,39,40,41 42,43,44,45,46,47,48,49	6 Tree Well 15,16,17,18,19,20 4200 sf Dispersion Area DA-3 12 Tree Well 21,22,23,24,25,26 27,28,29,30,31,32 17 Tree Well 33,34,35,36,37,38,39,40,41 42,43,44,45,46,47,48,49	6 Tree Well 15,16,17,18,19,20 4200 sf Dispersion Area DA-3 12 Tree Well 21,22,23,24,25,26 27,28,29,30,31,32 Tree Well 33,34,35,36,37,38,39,40,41 42,43,44,45,46,47,48,49	6 Tree Well 15,16,17,18,19,20 4200 sf Dispersion Area DA-3 12 Tree Well 21,22,23,24,25,26 27,28,29,30,31,32 Tree Well 33,34,35,36,37,38,39,40,41 42,43,44,45,46,47,48,49

PART 3 Required Attachments for All BMPs Listed in Table 3

For ALL projects, submit the following to the County inspector (check all that are attached):					
☐ Photographs: Labeled photographs illustrating proper construction of each S-BMP or SSD-BMP.					
☐ <u>Maintenance Agreements</u> : Copies of all approved and recorded Storm Water Maintenance Agreements (SWMAs) or Maintenance Notifications (MNs) for all S-BMPs.					
Note: All BMPs proposed for County ownership will remain the responsibility of the owner listed on Page 1 until a signed Letter of Acceptance of Completion is received by the DPW Watershed Protection Program.					
For Grading and Improvement projects only, ALSO submit:					
Construction Plans: An 11" X 17" copy of the most current applicable approved Construction Plan sheets:					
 □ Grading Plans, AND/OR □ Improvement Plans, AND/OR □ Precise Grading Plan(s) (only for residential subdivisions with tract homes), AND/OR □ Other (Please specify) Click here to enter text. 					
Note: For each Construction Plan, the sheets submitted must incorporate all of the following:					
 ☑ A BMP Table, AND ☑ A plan/cross-section of each verified as-built BMP, AND ☑ The location of each verified as-built BMP ☑ Landscape Plans: An 11" X 17" copy of the most current applicable Landscape Plan sheets where the 					
BMPs are required to be vegetated, including:					
☑ The Certification of Completion (Form 407), AND☑ The Certificate of Approval from PDS Landscape Architect					
Note: For each Landscape Plan, the sheets submitted must show the location of each verified as-built BMP.					
Required only for Verifications for Partial Record Plans					
\square If this is a partial record plan verification, please include the following:					
 □ A list of previously submitted Verification Forms (Table 2, A) □ A map of DMAs and BMPs (Table 2, B) 					

PART 4 Preparer's Certification

By signing below, I certify that the BMP(s) listed in Table 3 of this Verification Form have been constructed and all are in substantial conformance with the approved plans and applicable regulations. I understand the County reserves the right to inspect the above BMPs to verify compliance with the approved plans and Watershed Protection Ordinance (WPO). Should it be determined that the BMPs were not constructed to plan or code, corrective actions may be necessary before permits can be closed.

Note: Structural BMPs (Table 3, Part A) must be certified by a licensed professional engineer.

Please sign and, if applicable, provide your seal below.	
Preparer's Printed Name:	[SEAL]
Jay Sullivan	PROFESSIONAL STANSULLIVAL
Email: _jsullivan@mbakerintl.com	No. C77445 Exp. 6/30/21
Phone Number: <u>858-810-1474</u>	CIVIL OF CALIFOR
Preparer's Signed Name:	
Jung Jullivan	

8-6-2019

Date: _

COUNTY - OFFICIAL USE ONLY:

For County Inspectors	
County Department:	
Date verification received from EOW:	
By signing below, County Inspector concurs that eve	ery noted BMP has been installed per plan.
Inspector Name:	
Inspector's Signature:	Date:
For Building Division Only	
Inspection Supervisor Name:	
Inspector Supervisor's Signature:	Date:
PDCI & Building, along with the rest of this package, A copy of the final accepted SWQMP and a	
For Watershed Protection Program Only	
Date Received:	
WPP Reviewer:	
WPP Reviewer concurs that the BMPs accepted in P	art 2 above may be entered into inventory.
WPP Reviewer's Signature:	Date: