

Storm Water Pollution Prevention Plan

Santa Ana College

Johnson Center - Demo

Project Site Location/Address:

RSCCD/Santa Ana College
1530 W. 17th Street
Santa Ana, CA 92706
County of Orange

Responsible Parties:

Owner/LRP:



Rancho Santiago Community College District

2323 N. Broadway
Santa Ana, CA 92706
Contact: _____TBD

Contractor's Storm Water Pollution Prevention Manager(s):

_____TBD

SWPPP Prepared by Qualified SWPPP Developer



A Division of David Evans and Associates, Inc.

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RCE #59589, QSD #1062

SWPPP Preparation Date:

December 2015

Estimated Project Dates:

Start of Construction: ~~September 19, 2016~~
Completion of Construction: ~~October 19, 2016~~

WDID No.: _____

Risk Level 1

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SWPPP Certifications by Qualified SWPPP Developer (QSD)

Project Name: 97 detached homes in PA 2.2 – MR18 Esencia, Tract 17586 San Juan Capistrano, CA

“I certify under penalty of law that I am a Qualified SWPPP Developer in accordance with Order No. 2009-0009-DWQ, as amended by 2010-0014-DWQ (CGP) and Order No.2012-0006-DWQ becomes effective July 17, 2012, NPDES No. CAS000002 and this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my review of the SWPPP and other Permit Registration Documents and inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”



QSD Signature

November 24, 2015

Date

Henrik Nazarian, P.E.
RCE 59589(QSD #1062)

QSD Name

(714) 665-4500

Telephone Number

Section 1 SWPPP Requirements

1.1 Introduction

The discharger shall ensure that the site specific SWPPPs for all traditional project sites are developed and amended or revised by a Qualified SWPPP Developer. The SWPPP must include the information to demonstrate compliance with all Requirements of the General Construction Permit. The General Permit (Section XIV.C) requires the SWPPP be available at the construction site during working hours while construction is occurring and shall be made available upon request by a State or Municipal inspector. When the original SWPPP is retained by a crewmember in a construction vehicle and is not currently at the construction site, current copies of the BMPs and map/drawing will be left with the field crew and the original SWPPP shall be made available via a request by radio/telephone.

- All Pollutants and their sources, including sources of sediment associated with construction activities, construction site erosion and all other activities associated with construction activity controlled
- Where not other wise to be required to be under a RWQCB permit, all non-storm water discharges are identified and either eliminated controlled, or detected.
- Site BMPs are effective and result in the reduction or elimination of pollutants from storm water discharges and authorized non-storm water discharges
- Calculations and Design details as well as BMP controls for site run-on and complete and correct, and
- Stabilization BMPs installed to reduce or eliminate pollutants after construction is completed.

This SWPPP conforms to the required elements of the General Permit Order # 2009-0009, NPDES -No. CAS000002 Effective September 2, 2009 issued by the State of California, State Water Resources Control Board (SWRCB) as amended by No. 2010-0014, expired September 2, 2014 and Order No. 2012-0006-DWQ effective July 17, 2012. The SWPPP will also be amended if it is in violation of any condition of the Permit or has not achieved the general objective of reducing pollutants in storm water discharges. The SWPPP shall be readily available on-site for the duration of the project.

1.2 Permit Registration Documents

Required Permit Registration Documents (PRDs) shall be submitted to the State Water Board via the Stormwater Multi Application and Report Tracking System (SMARTS) by the Legally Responsible Person (LRP), or authorized personnel (i.e., Approved Signatory) under the direction of the LRP. The project-specific PRDs include:

- Notice of Intent (NOI)
- Risk Assessment
- Site Map
- Annual Fee
- Signed Certification Statement
- SWPPP

A copy of the submitted PRDs shall also be kept in Attachment F: Permit Registration Documents, along with the Waste Discharge Identification (WDID) confirmation.

Additional PRDs may be required depending on the construction type and location. Modify and included the below test to address items as applicable.

- None

1.3 SWPPP Availability and Implementation

The discharger shall make the SWPPP available at the construction site during working hours while construction is occurring and shall be made available upon request by a State or Municipal inspector. When the original SWPPP is retained by a crewmember in a construction vehicle and is not currently at the construction site, current copies of the BMPs and map/drawing will be left with the field crew and the original SWPPP shall be made available via a request by radio/telephone. (CGP Section XIV.C)

The SWPPP shall be implemented concurrently with the start of ground disturbing activities.

1.4 SWPPP Amendments

The SWPPP should be revised when:

- If there is a General Permit violation
- When there is a reduction or increase in total disturbed acreage

- BMPs do not meet the objectives of reducing or eliminating pollutants in stormwater discharges
- There is a change in construction or operations which may affect the discharge of pollutants to surface waters, groundwaters, or a municipal separate storm sewer system (MS4)
- When there is change in the project duration that changes the project's risk level
- When deemed necessary by the QSD

The following items shall be included in each amendment:

- Who requested the amendment
- The location of the proposed change
- The reason of the change
- The original BMP proposed, if any
- The new BMP proposed

The following SWPPP Amendment Certifications shall be completed for each SWPPP Amendment:

SWPPP Amendment No.: _____

**Qualified SWPPP Developer (QSD) Certification of the Storm Water Pollution
Prevention Plan Amendment**

Project Name: Santa Ana College – Johnson Center Demo

“I certify under penalty of law that I am a Qualified SWPPP Developer in accordance with Order No. 2009-0009-DWQ, as amended by 2010-0014-DWQ (CGP) and Order No.2012-0006-DWQ becomes effective July 17, 2012, NPDES No. CAS000002 and this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my review of the SWPPP and other Permit Registration Documents and inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

QSD Signature

Henrik Nazarian, P.E., (QSD 1062)

QSD Name

Date

(714) 665-4500

Telephone Number

Owner Approval of the Storm Water Pollution Prevention Plan

Project Name: RSCCD/Santa Ana College, Johnson Center Demo

“I certify under a penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

Owner/LRP/LRPs Approved Signatory

Date

Owner/LRP Name and Title

Telephone Number

LRPs Approved Signatory

Date

Contractor Certification of the Storm Water Pollution Prevention Plan

Project Name: RSCCD/Santa Ana College – Johnson Center Demo

"I certify under a penalty of law that I have read this document and understand my responsibilities under NPDES Stormwater Order#2009-0009-DWQ, as amended by 2010-0014-DWQ, as the "Contractors" representative. I have also read the Order and the Requirements of a Risk 1 site. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Contractor's Signature

Date

TBD

Contractor's Name and Title

Telephone Number

1.5 Retention of Records

The discharger shall maintain paper or electronic copy of all required records including a copy of the Construction General Permit, for three (3) years from the date generated or date submitted, which is last. These documents will be available at the construction site until the construction is completed. The discharger shall furnish the RWQCB, SWRCB, or US EPA within a reasonable time, any requested information to determine compliance with the CGP. This includes copies of any/all records required to be kept under this CGP.

1.6 Required Non-Compliance Reporting

The General Permit identifies several areas of non-compliance reporting. It is the responsibility of the permittee to properly document reportable discharges or other violations of the General Permit. Exceedances and violations should be reporting using the SMARTS system and include the following:

- Numeric Action Level (NAL) for Risk Level 2 and Level 3 sites;
- Numeric Effluent Limitations (NEL) Violation Report for Risk Level 3 sites;
- Self-reporting of any other discharge violations or to comply with RWQCB enforcement actions; and
- Discharges which contain a hazardous substance in excess of reportable quantities established in 40 CFR §§ 117.3 and 302.4, unless a separate NPDES Permit has been issued to regulate those discharges.

In the event of the exceedance of a NAL, document the subsequent site evaluation in the SWPPP (Section V.C.4). It is recommended that documentation of all reportable exceedances be included in the SWPPP. Include the results of an NAL exceedance site evaluation along with other non-compliance events in SWPPP.

If a discharge occurs or if the project receives a written notice of non-compliance, the Contractor will immediately notify the Owner/LRP; will file a written report to the Owner within 7 days of the discharge or notice; and will file a written report to the Regional Water Quality Control Board (RWQCB) per the Construction General Permit identification of non-compliance. Corrective measures will be implemented immediately following the discharge, notice or order. A sample Notice of Non-Compliance (NONC) form is provided in Attachment K. All discharges will be documented on a Discharge Reporting Log using the example form in Attachment S.

The report to the Owner and to the RWQCB will contain the following items:

- The date, time, location, nature of operation, and type of unauthorized discharge, including the cause or nature of the notice or order;
- The control measures (BMPs) deployed before the discharge event, or prior to receiving notice or order;
- The date of deployment and type of control measures (BMPs) deployed after the discharge event, or after receiving the notice or order, including additional measures installed or planned to reduce or prevent re-occurrence; and
- An implementation and maintenance schedule for any affected BMPs.

1.7 Annual Report

The General Permit requires that permittees prepare, certify, and electronically submit an Annual Report no later than September 1st of each year. Reporting requirements are identified in Section XVI of the General Permit. Annual reports will be filed in SMARTS and in accordance with information required by the on-line forms.

1.8 Changes to Permit Coverage

The General Permit (Section II.C) allows a permittee to reduce or increase the total acreage covered under the General Permit when a portion of the project is complete and/or conditions for termination of coverage have been met; when ownership of a portion of the project is sold to a different entity; or when new acreage is added to the project.

To change the acreage covered, the permittee must electronically file modifications to PRDs, site map, SWPPP revisions as appropriate, and certification that new landowners have been notified of applicable requirements to obtain permit coverage (including name, address, phone number, and e-mail address of new landowner) in accordance with requirements of the General Permit within 30 days of a reduction or increase in total disturbed area. Include any updates to PRDs submitted via SMARTS in SWPPP Appendix F. *Document any related SWPPP revisions directly on this SWPPP and amendments noted in Section I.4 of this SWPPP are documented in the Amendment Log on page 7 in Section I and uploaded to SMARTS.*

1.9 Notice of Termination

Notice of Termination (NOT) must be submitted electronically by the LRP via SMARTS to terminate coverage under the General Permit. The NOT must include a final Site Map and representative photographs of the project site that demonstrate final stabilization has been achieved. NOT documentation to be filed under Attachment “O”. The NOT shall be submitted within 90 days of completion of construction. The Regional Water Board will consider construction site complete when the conditions of the General Permit, Section II.D have been met.

Section 2 Project Information

2.1 Project and Site Description

The Santa Ana College Johnson Center project is located on the campus of Santa Ana College, City of Santa Ana, County of Orange. The campus is bounded by West 17th Street on the north, West Washington Avenue on the south, North Bristol Street on the east, and residential properties on the west. The project consist of the demolition of the existing Johnson Center as part or future modernization at a later date. The site area is 1.75 acres. The Project presides within the jurisdictional boundaries of the City of Santa Ana, County of Orange, of the Santa Ana Regional Water Quality Control Board – Region 8.

Existing Condition:

The project site is located in the center of the campus adjacent to the library and Auto Shop. The existing building will be demolished. The project site is relatively flat and currently consist of silty sand, sand, silty clay and clay and fine silt, base material, and vegetation. There are underground utilities within and around the proposed site that will protected depending on need.

The current site conditions are identified on the Erosion Control Plan that includes BMPs installed along with sediment control devices installed to minimize a sediment and pollutant discharge from the site during construction.

Construction Activities:

The proposed demo site will consist of demo the existing Johnson Center, clearing and grubbing of vegetation and construction of crushed aggregated base (CAB) on project site.

2.2 Stormwater Run-On From Offsite Areas

Everything drains away from project site.

2.3 Findings of the Construction Site Sediment and Receiving Water Risk Determination

This project is determined to be a Risk Level 1 per Attachment N.

2.4 Construction Schedule

A schedule has been developed identifying approach for construction activities. Accordingly, BMPs that correspond with proposed construction activities and shall be modified as Project progresses.¹

NOTE: Prior to commence of construction, Contractor shall complete and amend schedule, as applicable.

- 1) Project start and finish date: ~~September 19, 2016 – October 19, 2016~~ _____
- 2) Annual certifications _____ September 1 _____
- 3) Mobilization dates _____
- 4) Demolition dates _____ N/A _____
- 5) Mass clearing and grubbing/roadside clearing dates _____
- 6) Stabilization dates _____
- 7) Major grading/excavation dates _____
- 8) Install Structures _____
- 9) Dates for submittal of SWPPP Amendments required by the contract documents

- 10) BMP implementation schedule
 - a. Deployment of temporary soil stabilization BMPs _____ Continuous _____
 - b. Deployment of temporary sediment control BMPs _____ Continuous _____
 - c. Deployment of wind erosion control BMPs _____ Continuous _____
 - d. Deployment of tracking control BMPs _____ Continuous _____
 - e. Deployment of non-storm water BMPs _____ Continuous _____
 - f. Deployment of waste management and materials pollution control BMPs
_____ Continuous _____
- 11) Paving, saw-cutting, and any other pavement related operations
_____ Per Schedule _____
- 12) Major planned stockpiling operations _____ Now through Life of Project _____
- 13) Dates for other significant long-term operations or activities that may plan non-storm water discharges such as dewatering, grinding, etc.
_____ Per Schedule _____

¹ Note: SWPPP Implementation and BMPs may be adjusted as schedule changes.

Rancho Santiago Community College District
SAC Johnson Demolition
 Updated: Novmeber 20, 2015

Schedule Subject to Change

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	% Complete	2016																							
								Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar			
1	JOHNSON DEMOLITION	649 days	Mon 3/10/14	Mon 10/10/16			31%																								
2	PROFESSIONAL SERVICES PROCUREMENT	510 days	Mon 3/10/14	Mon 3/28/16			59%																								
39	SITE DUE DILLIGENCE	92 days	Thu 7/16/15	Mon 11/23/15			57%																								
45	DESIGN PHASE	98 days	Mon 10/5/15	Thu 3/3/16			0%																								
46	90% Construction Document Phase	56 days	Mon 10/5/15	Wed 12/30/15			0%																								
47	AE prepare 90% CDs	40 days	Mon 10/5/15	Tue 12/1/15		48,49	0%																								
48	Estimate/Constructability Review/Backcheck by Contractor	10 days	Wed 12/2/15	Tue 12/15/15	47	50	0%																								
49	District Review	10 days	Wed 12/2/15	Tue 12/15/15	47	50	0%																								
50	Estimate/Constructability Review Meeting	5 days	Wed 12/16/15	Tue 12/29/15	48,49	51	0%																								
51	Approve 90% CDs	1 day	Wed 12/30/15	Wed 12/30/15	50	53	0%																								
52	100% Construction Document Phase	42 days	Thu 12/31/15	Thu 3/3/16			0%																								
53	AE prepare 100% CDs	10 days	Thu 12/31/15	Thu 1/14/16	51	54,20	0%																								
54	Estimate/Constructability Review/Backcheck by Contractor	8 days	Fri 1/15/16	Wed 1/27/16	53	55,56	0%																								
55	District Review	8 days	Thu 1/28/16	Mon 2/8/16	54	56	0%																								
56	Estimate/Constructability Review Meeting	5 days	Tue 2/9/16	Tue 2/16/16	54,55	57	0%																								
57	AE Address All Comments	10 days	Wed 2/17/16	Wed 3/2/16	56	58	0%																								
58	Approve 100% CDs	1 day	Thu 3/3/16	Thu 3/3/16	57	60FS+8 days	0%																								
59	CONSTRUCTION PROCUREMENT	79 days	Wed 3/16/16	Thu 6/2/16			0%																								
60	Prepare Bid Package	5 days	Wed 3/16/16	Tue 3/22/16	58FS+8 days	61	0%																								
61	Advertisement #1	1 day	Wed 3/23/16	Wed 3/23/16	60	62FS+3 days	0%																								
62	Advertisement #2	1 day	Tue 3/29/16	Tue 3/29/16	61FS+3 days	63FS+2 days	0%																								
63	Job Walk	1 day	Fri 4/1/16	Fri 4/1/16	62FS+2 days	64FS+5 days	0%																								
64	RFI Deadline	1 day	Mon 4/11/16	Mon 4/11/16	63FS+5 days	65	0%																								
65	Respond to RFIs/Issue Addendum	2 days	Tue 4/12/16	Wed 4/13/16	64	66FS+1 day	0%																								
66	Bids Due	1 day	Fri 4/15/16	Fri 4/15/16	65FS+1 day	67	0%																								
67	Bid Analysis	2 days	Mon 4/18/16	Tue 4/19/16	66	69,68	0%																								
68	Board Docket Due to Carri	9 days	Wed 4/20/16	Mon 5/2/16	67	69	0%																								
69	Board Approval	1 day	Mon 5/16/16	Mon 5/16/16	67,68	70	0%																								
70	Issue Bid Award Letter	1 day	Tue 5/17/16	Tue 5/17/16	69	71	0%																								
71	Collect Contractor's Insurance Docs.	5 days	Wed 5/18/16	Tue 5/24/16	70	72FS+6 days	0%																								
72	Generate PO/Issue NTP/Precon	1 day	Thu 6/2/16	Thu 6/2/16	71FS+6 days	76	0%																								
73	CONSTRUCTION PHASE	139 days	Tue 3/8/16	Mon 9/19/16			0%																								
74	Bldg. Decommissioning	50 days	Tue 3/8/16	Mon 5/16/16		77,76	0%																								
75	Commencement	1 day	Fri 6/3/16	Fri 6/3/16		77,76	0%																								
76	Submittal/Procurement/Mobilization Period	15 days	Mon 6/6/16	Fri 6/24/16	72,74,75	77	0%																								
77	Construction	50 days	Mon 6/27/16	Mon 9/5/16	76,74,75	78	0%																								
78	Final Clean	5 days	Tue 9/6/16	Mon 9/12/16	77	79	0%																								
79	Punch List Walk/Assemble Punch List/Complete Punch Items	5 days	Tue 9/13/16	Mon 9/19/16	78	82,80	0%																								
80	Substantial Completion	0 days	Mon 9/19/16	Mon 9/19/16	79		0%																								
81	CLOSEOUT PHASE	15 days	Tue 9/20/16	Mon 10/10/16			0%																								
82	Final Completion / File NOC	15 days	Tue 9/20/16	Mon 10/10/16	79		0%																								

- 14) Final stabilization activities staged over time for each area of the project.
October 2016
-

2.5 Potential Construction Site Pollutant Sources

Control practices for each activity are identified in Section 3. The following is a list of construction materials that will be used and activities that will be performed that will have the potential to contribute pollutants, other than sediment, to storm water runoff.

- Vehicle fluids, including oil, grease, petroleum, and coolants
- Asphaltic emulsions associated with asphalt-concrete paving operations
- Cement materials associated with PCC concrete operations, and drainage structures
- Base and subbase material
- Joint and curing compounds
- Concrete curing compounds
- Paints
- Solvents, thinners, acids
- Mortar mix
- Raw landscaping materials and wastes (topsoil, plant materials, herbicides, fertilizers, mulch, pesticides)
- BMP materials (sandbags, liquid copolymer)
- Treated lumber (materials and waste)
- PCC rubble
- Masonry block rubble
- General litter
- Sediment
- Nutrients (Nitrogen, Phosphorous, Potassium, etc.)
- Artificial Surfaces (Galvanized Metal, Paint, Preserved Wood, etc.)
- Organic Compounds (Adhesives, Cleansers, Sealants, Solvents, etc.)

Construction activities that have the potential to contribute sediment to storm water discharges include:

Used in Project	Type of Operation
x	Demolition
x	Clear and grub operations
x	Rough grading operations
x	Soil import/export operations
	Utility excavation operations
	Precise Grading operations
	Sandblasting operations
	Landscaping operations

Attachment C proposes Best Management Practices (BMPs) for implementation in this Project for the specific phases of construction identified in the General Construction Permit. Implementation and location of BMPs are shown on the Erosion Control Plan in Attachment B. Narrative descriptions of BMPs to be used during the project are listed by category in each of the following SWPPP sections. Attachment Q includes a list, and/or copies of the fact sheets of all the BMPs selected for this project.

2.6 Identification of Non-Stormwater Discharges

Non-stormwater discharges consist of discharges which do not originate from precipitation events. The General Permit provides allowances for specified non-stormwater discharges that do not cause erosion or carry other pollutants.

Non-Stormwater Discharges are identified in this Section, and their methods of control and treatments are identified in Section 3.3-3.4. The General Permit requires (Section XIV.A.2 “SWPPP Requirements”) that dischargers identify all non-stormwater discharges (where not otherwise required to be under a Regional Water Quality permit) and that discharges be eliminated, controlled, or treated.

Construction activities that have the potential to contribute sediment to non-storm water discharges include:

Used in Project	Type of Operation
x	Vehicle/equipment cleaning, fueling, and maintenance
x	Vehicle/equipment and concrete washing
x	Concrete cutting and coring; PCC or AC grinding
x	Concrete or mortar mixing
x	Drilling or boring
x	High-pressure washing
x	Dust control runoff
x	Chemical leaks or spills
x	Sanitary and septic wastes

Section 3 Best Management Practices

3.1 Schedule for BMP Implementation

The Schedule below is used to identify the deployment of BMPs on the project. BMPs must be implemented, modified, and maintained to reflect the phase of construction and the weather conditions. In order to be effective, some BMPs must be installed before the site is disturbed (e.g., to provide protection during grading operations or to reduce or minimize pollution from historic areas of contamination during construction).

Duration used in Project	BMP #	BMP Name
Erosion and Sediment Control BMPs		
Entirety of Project	EC-1	Scheduling
Entirety of Project	EC-2	Preservation of Existing Vegetation
-	EC-3	Hydraulic Mulch-EarthGuard
-	EC-4	Hydroseeding
-	EC-5	Soil Binders
-	EC-6	Straw Mulch
-	EC-7	Geotextiles & Mats
Entirety of Project	EC-8	Wood Mulching
Entirety of Project	EC-9	Earth Dikes and Drainage Swales
-	EC-10	Velocity Dissipation Devices
Entirety of Project	EC-11	Slope Drains
-	EC-12	Streambank Stabilization
-	EC-13	Reserved
-	EC-14	Compost Blankets
-	EC-15	Soil Preparation/ Roughening
-	EC-16	Non-Vegetative Stabilization
Sediment Control		
Entirety of Project	SE-1	Silt Fence
-	SE-2	Sediment Basin
-	SE-3	Sediment Trap
-	SE-4	Check Dam
-	SE-5	Fiber Rolls
Entirety of Project	SE-6	Gravel Bag Berm

Entirety of Project	SE-7	Street Sweeping and Vacuuming
-	SE-8	Sandbag Barrier
-	SE-9	Straw Bale Barrier
Entirety of Project	SE-10	Storm Drain Inlet Protection
-	SE-11	Active Treatment Systems
-	SE-12	Temporary Silt Dike
-	SE-13	Compost Socks and Berms
-	SE-14	Biofilter Bags
Wind Erosion Control		
Entirety of Project	WE-1	Wind Erosion Control
Tracking Control BMPs		
Entirety of Project-	TC-1	Stabilized Construction Entrance/Exit
Entirety of Project	TC-2	Stabilized Construction Roadway
-	TC-3	Entrance/Outlet Tire Wash
Non-Stormwater Management BMPs		
Entirety of Project	NS-1	Water Conservation Practices
Entirety of Project	NS-2	Dewatering Operations
Entirety of Project	NS-3	Paving and Grinding Operations
-	NS-4	Temporary Stream Crossing
-	NS-5	Clear Water Diversion
Entirety of Project	NS-6	Illicit Connection/Discharge
Entirety of Project	NS-7	Potable Water/Irrigation
Entirety of Project	NS-8	Vehicle and Equipment Cleaning
-	NS-9	Vehicle and Equipment Fueling
-	NS-10	Vehicle and Equipment Maintenance
-	NS-11	Pile Driving Operations
Entirety of Project	NS-12	Concrete Curing
Entirety of Project	NS-13	Concrete Finishing
-	NS-14	Material and Equipment Use
-	NS-15	Demolition Adjacent to Water
-	NS-16	Temporary Batch Plants
Waste Management & Materials Pollution Control BMPs		
Entirety of Project	WM-1	Material Delivery and Storage
Entirety of Project	WM-2	Material Use
Entirety of Project	WM-3	Stockpile Management
Entirety of Project	WM-4	Spill Prevention and Control

Entirety of Project	WM-5	Solid Waste Management
Entirety of Project	WM-6	Hazardous Waste Management
Entirety of Project	WM-7	Contaminated Soil Management
Entirety of Project	WM-8	Concrete Waste Management
Entirety of Project	WM-9	Sanitary/Septic Waste Management
Entirety of Project	WM-10	Liquid Waste Management

3.2 Erosion and Sediment Control

The Erosion Control Plan can be found in Attachment B of the SWPPP. Erosion Control Plan shall entail the following information, as applicable to the Project:

- The Erosion Control Plan shall show locations for the BMPs that will be used.
- Detailed sheets for the BMPs that will be used per 2009 CASQA California Stormwater BMP Handbook, and referenced in Attachment P.
- Additional details may be necessary to describe site-specific BMP applications.
- Use grading sheets, drainage sheets or erosion control sheets as base sheets for the Erosion Control Plan. Use Section 500.3, “Pollutant Source Identification and BMP Selection” as a guide to pollutant sources and BMPs for construction activities. Select BMPs that are appropriate for the site and show their locations on the Erosion Control Plan.
- The construction site perimeter.
- Geographic features within or immediately adjacent to the site. Include surface waters such as lakes, streams, springs, wetlands, estuaries, ponds, and the ocean.
- Site topography before and after construction.
- Include roads, paved areas, buildings, slopes, drainage facilities, and areas of known or suspected contamination.
- Permanent (post-construction) BMPs. These are usually shown on the project plans.
- Discharge points from the project to off-site storm drain systems or receiving waters (show using flow arrows).
- Tributary areas and drainage patterns across the project area (show using flow arrows) into each on-site storm water inlet or receiving water.
- Tributary areas and drainage patterns (show using flow arrows) to each on-site storm water inlet, receiving water or discharge point.

- Off-site tributary drainage areas that generate run-on to the project. (Where off-site tributary drainage areas are too large to depict on the drawings, use map notes or inserts illustrating the upstream drainage areas), (show using flow arrows).
- Temporary on-site drainage(s) to carry concentrated flows (show using flow arrows).
- Drainage patterns and slopes anticipated after major grading activities are completed (show using flow arrows).
- Slopes after major grading activities.
- Outline all areas of existing vegetation, soil cover, or native vegetation that will remain undisturbed during the project.
- Areas of cut and fill.
- Outline all areas of soil disturbance (disturbed soil areas, DSAs). Indicate which areas will be disturbed during the rainy season and which areas will be left exposed during the rainy season.
- Identify location(s) or areas where it is known that toxic materials have been stored, disposed, spilled, or leaked onto the construction site.
- Identify location(s) of contaminated or hazardous soils.
- Locate potential non-storm water discharges and activities, such as dewatering operations, concrete saw-cutting or coring, pressure washing, waterline flushing, diversions, cofferdams, and vehicle and equipment cleaning. If operations can't be located, provide a narrative description.
- Identify location(s) or direct discharge from the construction site into a Section 303(d) list water body (discharges that do not flow into an accepted MS4 system).
- Identify locations designated for sampling the discharge(s) from areas of the construction site.
- Show temporary erosion control and temporary sediment control BMPs that will be used during construction. Including temporary on-site drainage(s) to carry concentrated flows, BMPs implemented to divert off-site drainage around or through the construction site, and BMPs that protect storm water inlets.
- Locate site ingress and egress points and any proposed temporary construction roads.
- Show BMPs to mitigate or eliminate non-storm water discharges, including but not limited to, BMPS that divert off-site drainage from passing through site.

- Show BMPs for waste management and materials pollution control, including, but not limited to storage of soil or waste; construction material loading, unloading, storage and access areas; and areas designated for waste handling and disposal.
- Show location(s) of temporary stockpiles and BMPs to protect those areas.
- Show BMPs for vehicle and equipment storage, fueling, maintenance, and cleaning.
- Show location of all post-construction BMPs.

Sufficient erosion control materials will be maintained on-site to allow implementation in conformance with General Construction Permit requirements for the four distinct phases of construction be described in this SWPPP. This includes implementation requirements for active areas and non-active areas that require deployment on year round bases.

Implementation and locations of temporary erosion control BMPs are shown on the Erosion Control Plans in Attachment B. The BMP Checklist in Attachment C indicates the BMPs that will be selected to **control erosion (EC)** on the construction site; these are:

- EC-1 Scheduling
- EC-2 Preservation of Existing Vegetation
- EC-8 Wood Mulching
- EC-9 Earth Dikes & Drainage Swales
- EC-11 Slope Drains

NOTE: Prior to commencement of construction, Contractor shall confirm and identify location of structural BMPs on WPCD (Erosion Control Plan), as applicable. As construction activities progress and BMPs change, WPCD shall be revised and dated, and SWPPP shall be amended, accordingly.

Sediment controls (SE) are structural measures that are intended to complement and enhance the selected erosion control measures and reduce sediment discharges from active construction areas. Sediment controls are designed to intercept and settle out soil particles that have been detached and transported by the force of water. This project will incorporate sediment control measures required by the contract documents, and other measures selected by the Owner/Developer/Contractor.

Sufficient quantities of temporary sediment control materials will be maintained on-site throughout the duration of the project, to allow implementation of temporary sediment controls in the event of predicted rain, and for rapid response to failures or emergencies, in conformance with other Permit requirements and as described in this SWPPP. This includes implementation requirements for active areas and non-active areas before the onset of rain.

Implementation and locations of temporary sediment control BMPs are shown on the Water Pollution Control Drawings (Erosion Control Plan) in Attachment B. The BMP Consideration Checklist in Attachment C indicates all the BMPs that will be implemented to control sediment (SE) on the construction site; these are:

- SE-4 Check Dam
- SE-5 Fiber Rolls
- SE-6 Gravel Bag Berm
- SE-7 Street Sweeping and Vacuuming
- SE-8 Sand Bag Barrier
- SE-10 Storm Drain Inlet Protection
-

Implementation of Temporary Sediment Controls

- Temporary sediment control BMPs will be deployed according to the schedule shown in SWPPP Section 2.4.
- During the rainy season, temporary sediment controls will be implemented at the draining perimeter of disturbed soil areas, at the toe of slopes, at storm drain inlets and at outfall areas at all times.
- During the non-rainy season, temporary sediment controls will be implemented at the drainage perimeter of disturbed soil areas and at storm drain downstream from disturbed areas before rain events.
- During the non-rainy season, in the event of a predicted storm, the following temporary sediment control materials will be maintained on-site: silt fence materials, sandbags for linear barriers, fiber rolls.
- SE-6 Gravel Bag Berm, will be installed along the sides of the project construction zone perimeter to ensure adequate perimeter control.
- SE-7 Street Sweeping and Vacuuming, road sweeping and vacuuming will occur during soil hauling and as necessary to keep street surfaces clear of soil and debris. Washing of sediment tracked onto streets into storm drains will not occur.

3.3 Tracking Control

The following BMPs have been selected to reduce **sediment tracking (TC)** from the construction site onto private or public roads:

BMPs to Reduce Sediment Tracking

Stabilized Construction Roadway

- The site entrance/exit will be stabilized to reduce tracking of sediment as a result of construction traffic. The entrance will be designated and graded to prevent runoff from leaving the site. Stabilization material will be 3 to 6-inch aggregate. The entrance will be flared where it meets the existing road to provide an adequate turning radius. During dirt-hauling activities that extend over a one-week time period, a site entrance/exit will be installed to reduce tracking of sediment.

3.4 Wind Control

The following BMPs have been selected to control dust from the construction site:

- WE-1 Wind Erosion Control

Dust Control

- Potable water will be applied to disturbed soil areas of the project site to control dust and maintain optimum moisture levels for compaction. The water will be applied using water trucks.
- BMP WE-1, Wind Erosion Control, and BMP NS-1, Water Conservation Practices, will be implemented to provide dust control and prevent discharges from dust control activities and water supply equipment. Water application rates will be minimized as necessary to prevent runoff and ponding and water equipment leaks will be repaired immediately.
- During windy conditions (forecast or actual wind conditions of approximately 25 mph or greater), dust control will be applied to disturbed areas, including haul roads, to adequately control wind erosion.
- BMP WM-3, Stockpile Management, using silt fences and plastic covers will be implemented to prevent wind dispersal of sediment from stockpiles

3.5 Non-Stormwater and Material Management

An inventory of construction activities/schedule and potential non-storm water discharges is provided in Section 2.6. The BMP Checklist in Attachment C and the following list indicates the BMPs that have been selected to control non-storm water pollution on the construction site. Implementation and locations of structural non-storm water control BMPs are shown on the Erosion Control Plan in Attachment B. The General Permit requires (Section XIV.A.2 “SWPPP Requirements”) that dischargers identify all non-stormwater discharges (where not otherwise required to be under a RWQCB permit) and that discharges be eliminated, controlled, or treated.

- NS-1 Water Conservation Practices
- NS-2 Dewatering Operations
- NS-3 Paving and Grinding Operations
- NS-6 Illicit Connection / Discharge
- NS-7 Potable Water / Irrigation
- NS-8 Vehicle and Equipment Cleaning
- NS-12 Concrete Curing
- NS-13 Concrete Finishing

Water Conservation Practices

- The Contractor will implement water conservation practices (BMP NS-1) to use water during the construction in a manner that avoids causing erosion and the transport of pollutants offsite. These practices shall reduce or eliminate non-stormwater discharges.

Dewatering Operations

- The Contractor will implement BMP NS-2, Dewatering Operations throughout the duration of the project to prevent storm water ponding in the excavated building footprint of the site.

Paving and Grinding Operations

- BMP NS-3, Paving and Grinding Operations, will be implemented to prevent paving materials from being discharged off-site. Covers will be placed over each inlet adjacent to paving operations. Ertec or equivalent shall be placed over each inlet grate. Following paving operations, the area will be swept, inlet covers will be removed, and the inlets will be inspected for paving materials.

Illicit Connection/Illegal Discharge Detection and Reporting

- Not Permitted. The Contractor will implement BMP NS-6, Illicit Connection/Illegal Discharge Detection and Reporting throughout the duration of the project to assure there are no illicit connections.

Potable Water/Irrigation

- The Contractor will practice potable water procedures (BMP NS-7) to manage the discharge of potential pollutants generated during discharges of potential pollutants generated during discharges from irrigation water lines, landscape irrigation, lawn or garden watering, planned and unplanned discharges from potable water sources, water line flushing, and hydrant flushing.

Vehicle and Equipment Operations

- Several types of vehicles and equipment will be used on-site throughout the project, including graders, scrapers, excavators, loaders, paving equipment, rollers, trucks and trailers, backhoes, forklifts, generators, compressors, and traffic control equipment. BMPs NS-8 (Vehicle and Equipment Cleaning), NS-9 (Vehicle and Equipment Fueling), and NS-10 (Vehicle and Equipment Maintenance) will be utilized to prevent discharges of fuel and other vehicle fluids. Except for concrete washout, which is addressed below, vehicle cleaning will not be performed on-site.
- If required, a paved temporary fueling area will be constructed in the Contractor's yard and shown on Erosion Control Plan. All self-propelled vehicles will be fueled off-site or at the temporary fueling area. Fuel trucks, each equipped with absorbent spill clean-up materials, will be used for all on-site fueling, whether at the temporary fueling area or for mobile fueling elsewhere on the site. Drip pans will be used for all mobile fueling. The fueling truck will be parked on the paved fueling area for overnight storage.
- Drip pans or absorbent pads will be used for all vehicle and equipment maintenance activities that involve grease, oil, solvents, or other vehicle fluids.
- All vehicle maintenance and mobile fueling operations will be conducted away from operational inlets and drainage facilities and on a level graded area.

Concrete Curing, Finishing, and Saw-cutting

- The Contractor will exercise proper procedures and care when managing concrete curing materials to prevent them from coming into contact with stormwater flows (BMP NS-12).

- The Contractor will exercise proper procedures and care when managing concrete finishing materials to minimize the impact of concrete-finishing methods on non-stormwater discharges (BMP NS-13).

- Saw-cutting operations will not be conducted during or immediately prior to rainfall events.

3.6 Waste Management and Material Pollution Control

The BMP Consideration Checklist in Attachment C and the following list indicate the BMPs that have been selected to control construction site wastes and materials. Implementation and locations of some materials handling and waste management BMPs are shown on the Water Pollution Control Drawings (Erosion Control Plan) in Attachment B. A narrative description of each BMP follows.

- WM-1 Material Delivery and Storage
- WM-2 Material Use
- WM-3 Stockpile Management
- WM-4 Spill Prevention and Control
- WM-5 Solid Waste Management
- WM-6 Hazardous Waste Management
- WM-7 Contaminated Soil Management
- WM-8 Concrete Waste Management
- WM-9 Sanitary / Septic Waste Management
- WM-10 Liquid Waste Management
-

Material Delivery, Storage, and Use

- In general, BMPs WM-1 and WM-2 will be implemented to help prevent discharges of construction materials during delivery, storage, and use. The general material storage area will be located in the Contractor's yard as shown on Erosion Control Plan. A sandbag barrier (BMP SE-8) will be provided around the storage area to prevent run-on from adjacent areas. Two types of storage/containment facilities will be provided within the storage area to minimize storm water contact with construction materials:
 - Two watertight shipping containers will be used to store hand tools, small parts, and most construction materials that can be carried by hand, such as paint cans, solvents and grease.
 - A separate covered storage/containment facility will be constructed adjacent to the shipping containers to provide storage for larger items such as drums and items shipped or stored on pallets. The containment facility will consist of a 10 ft by 20 ft raised concrete pad with 6

inch curbed sides. A wood frame and corrugated tin roof and sides will be constructed to protect the facility from sun and rain. The facility will provide about 530 gal of containment volume. The containment volume is adequate to store 9-55 gallon drums pursuant to BMP WM-1.

- Very large items, such as light standards, framing materials, and stockpiled lumber, will be stored in the open in the general storage area. Such materials will be elevated with wood blocks to minimize contact with run-on.
- Spill clean-up materials, material safety data sheets, a material inventory, and emergency contact numbers will be maintained and stored in the southern shipping container.

Spill Prevention and Control

- BMP WM-4, Spill Prevention and Control, will be implemented to contain and clean-up spills and prevent material discharges to the storm drain system. Spill prevention is also discussed above in Material Delivery, Storage, and below in the following waste management and equipment maintenance sections.

Waste Management

- BMP WM-5, Solid Waste Management, and BMP WM-6, Hazardous Waste Management will be implemented to minimize storm water contact with waste materials and prevent waste discharges. Solid wastes will be loaded directly into trucks for off-site disposal. When on-site storage is necessary, solid wastes will be stored in watertight dumpsters in the general storage area of the Contractors yard. Dumpster locations are shown on Erosion Control Plan. AC and PCC rubble will be stockpiled in the general storage area and will be surrounded with sediment controls (SE-6, Gravel Bag Barrier) and covered when necessary. Solid waste, including rubble stockpiles, will be removed and disposed off-site at least weekly. Waste Disposal will provide solid waste disposal services. Hazardous wastes will be stored in the shipping containers or covered containment area discussed above for materials storage. Hazardous wastes will be appropriate and clearly marked containers and segregated from other non-waste materials.

Contaminated Soil Management

- When contaminated soils are encountered, the City Engineer will be notified, the contaminated soils will be contained, covered if stockpiled, and disposed of per WM-7, Contaminated Soil Management, and the contract documents. Employees will be instructed to recognize evidence of contaminated soil, such as buried debris, discolored soil, and unusual odors.

Concrete Residuals and Washout Wastes

- Discharges will consist of rinse water and residual concrete (Portland cement, aggregates, admixture, and water). Estimated pour dates are shown on the project schedule in Section 300.4. Concrete pours will not be conducted during or immediately prior to rainfall events.
- BMP WM-8, Concrete Waste Management, will be implemented and a below grade concrete washout facility will be constructed and maintained at the Contractor's yard as shown on Erosion Control Plan. All excess concrete and concrete washout slurries will be discharged to the washout facility for drying. The minimum-sized washout, at 10 ft x 10 ft x 3.3 ft deep, will provide more than sufficient volume to contain concrete washout wastes and waste collected from concrete saw-cutting operations, discussed below. BMP maintenance, waste disposal, and BMP removal will be conducted as described in WM-8. Dried-off concrete will be used as fill material if permitted by the City Engineer.
- Concrete waste solids/liquids will be removed and disposed of as required by WM-8.

Sanitary and Septic Wastes

- The Contractor will implement BMP WM-9, Sanitary and Septic Waste Management, and portable toilets will be located and maintained at the Contractor's yard for the duration of the project. Specific locations are shown on Erosion Control Plan. Weekly maintenance will be provided and wastes will be disposed off-site. The toilets will be located away from concentrated flow paths and traffic flow.

3.7 Post-Construction Stormwater Management Measures

Post-Construction BMPs shall provide mitigation measures of pollutants generated from the site as a result of onsite activities. Post-Construction BMPs shall entail Site Design, Source Control, and Treatment Control BMPs where locations are identified in the Architectural and/or Civil Plans. The following are the post-construction BMPs that are to be used at this construction site after all construction is complete:

Site Design BMPs

- Minimize Storm Water Pollutants of Concern (sediment, metals, oil & grease)
- Protect Slopes and Channels
- Provide Storm Drain Stenciling and Signage
- Properly Design Trash Storage Areas
- Provide Proof of Ongoing BMP Maintenance
- Design Standards for Structural or Treatment Control BMPs

Source Control BMPs – Structural / Non-Structural

- Employee Training
- Housekeeping Practices
- Parking / Subterranean Garage Area
- Protect Slopes and Channels
- Provide Storm Drain System Stenciling and Signage
- Public Education / Participation
- Trash Storage Areas
- Waste Handling and Disposal

Treatment Control BMPs (Describe Below, if applicable)

- _____
- _____
- _____

The post-construction BMPs that are described above will be funded and maintained by the owner/developer in accordance with County of Orange Water Quality Management Plan and Rancho Santiago Community College District requirements.

Section 4 BMP Inspection, Maintenance, and Rain Event Action Plans

4.1 BMP Inspection and Maintenance

Inspections will be conducted as follows:

- Prior to a forecast rain event – 48-hours prior to storm event
- After a rain event that causes runoff from the construction site – within 48-hours after each qualifying rain event
- At 24-hour intervals during extended rain events
- Weekly per CGP
- Quarterly Non-Storm Water Inspections
- At any other time(s) or intervals of time specified in the contract documents

The General Permit requires (Attachments C, D, E) that completed inspection checklists be maintained with the on-site SWPPP. In general, the information required to be recorded for BMP/facility inspections includes: the date of the inspection, weather information, site information, observations, descriptions of the inspected BMPs and any deficiencies, and the corrective actions that were taken such as BMPs that were fixed or additional BMPs that were implemented, and the inspectors name, title, and signature.

The required frequency of the BMP inspections depends on the type of the BMP that is implemented. The General Permit (Attachments C, D, E) requires routine weekly inspections and daily inspections during rain events of all BMPs (for all Risk Categories); however, some BMPs (e.g. tracking controls; Attachments D & E) may require daily monitoring. BMPs must be maintained regularly based on permit-required inspections and observation during the course of normal construction activities.

The General Permit requires dischargers to begin implementing corrective actions within 72 hours for deficiencies identified during inspections (Attachments C, D, E). SWPPP amendments should be prepared by the QSD if warranted by the problem encountered and corrective action required.

4.2 Rain Event Action Plans

REAPs developed by a QSD are required for all Risk Level 2 and 3 dischargers for each construction phase. The SWPPP can include REAP templates but the QSP will need to customize them for each rain event. Include site-specific REAP templates for each applicable phase of the project in the SWPPP. Completed REAPs must be maintained on site. It is recommended that they be maintained with the SWPPP or in an accompanying binder/folder that is referenced in the SWPPP.

The QSP must develop the REAP 48-hours in advance of any precipitation event forecast to have a 50% or greater chance of producing precipitation in the project area. The REAP must be on site and be implemented 24 hours in advance of any the predicted precipitation event.

The REAP is designed to protect all exposed portions of project sites and to ensure that the discharger has adequate materials, staff, and time to implement erosion and sediment control measures that are intended to reduce the amount of sediment and other pollutants that could be generated during the rain event.

At minimum the REAP must include the following site and phase-specific information:

- Site Address
- Calculated Risk Level (2 or 3)
- Site Stormwater Manager Information including the name, company, and 24-hour emergency telephone number
- Erosion and Sediment Control Provider information including the name, company, and 24-hour emergency telephone number
- Stormwater Sampling Agent information including the name, company, and 24-hour emergency telephone number
- Activities associated with each construction phase
- Trades active on the construction site during each construction phase
- Trade contractor information
- Suggested actions for each project phase.

Section 5 Training

In order to improve compliance with and to maintain consistent enforcement of this CGP appoint two positions – the Qualified SWPPP Developer and Qualified SWPPP Practitioner (QSP required after July 1, 2011) who must obtain appropriate training in accordance with Section VII of the Permit. Such individuals may include those responsible for the installation, inspection, maintenance, and repair of BMPs, the permit does not require these individual be trained but it is highly recommended to improve compliance. The Qualified SWPPP Developer responsible for overseeing, revising and amending the SWPPP shall also document their training. Effective two years after the adoption date of this CGP the QSD shall have attended a State waterboard-sponsored and approved QSD course. Training should occur on an ongoing basis during the entire duration of the Project. Formal and informal training activities shall be implemented by a Qualified Person prior to July 1, 2011 and by a Qualified SWPPP Practitioner after July 1, 2011. Personnel attending training will document attendance using the form in Attachment I.

Subcontractor employees can impact water quality and potentially jeopardize compliance with the Permit Requirements and SWPPP, thus subcontractor staff must also receive SWPPP Training that is appropriate to their scope of work. Informal training will be conducted as tailgate site briefings to be conducted monthly and will address the following topics:

- Good Housekeeping
- Erosion & Sediment Control BMPs
- Non-Storm Water BMPs
- Waste Management and Materials Pollution Control BMPs
- Emergency Procedures specific to the construction site storm water management
- Reporting Requirement

Please see Attachment W for Training Logs.

Section 6 Responsible Parties and Operators

6.1 Responsible Parties

The following personnel are assigned as responsible parties for SWPPP Management, including Written Authority by LRP:

Owner: Rancho Santiago Community College District
2323 N. Broadway
Santa Ana, CA 92706
714-480-7370

Contact: _____ **TBD**

Legally Responsible Person (LRP): _____ **TBD**

Authorized Signatory:

Data Submitter: _____ **TBD**

Qualified SWPPP Developer (QSD):
Henrik Nazarian, P.E.
RCE # 59895, QSD # 1032
Hall & Foreman Inc.
17782 – 17th Street, Suite 200, Tustin, CA 92780
(714) 665-4500

Qualified SWPPP Practitioner (QSP): _____ **TBD**

6.2 Contractor List

All contractors and subcontractors will be notified of the requirement for storm water management measures during the project. A list of contractors, subcontractors, and their individual telephone numbers and addresses will be maintained and included in the SWPPP. Specific areas of responsibility of each contractor and emergency phone numbers shall also be included in SWPPP. If subcontractors change during the project, the list will be updated accordingly. The subcontractor notification letter and log is included in the SWPPP as Attachment J. The following information are shown for each Contractor:

- Name
- Title
- Company
- Address
- Phone Number
- Number (24/7)

Section 7 Construction Site Monitoring Program

7.1 Purpose

The General Permit (Attachments C, D, E; Section I.1.a) requires that a written site specific Construction Site Monitoring Program (CSMP) be developed by each discharger prior to the commencement of construction activities, and be revised as necessary to reflect project revisions and that the CSMP be included with the SWPPP.

7.2 Applicability of Permit Requirements

This project has been determined to be a Risk Level 1 project. The General Permit identifies the following types of monitoring as being applicable to this type or level of project: (Attachment ‘N’ CGP, Attachment C of the CGP identifies Risk 1 Level Requirements)

- Visual inspections of Best Management Practices (BMPs)
- Visual monitoring of the site related to qualifying storm events
- Visual monitoring of the site for non-stormwater discharges
- Sampling and analysis of construction site runoff for non-visible pollutants when applicable
- Sampling and analysis of construction site runoff as required by the Regional Water Board when applicable.

7.3 Weather and Rain Event Tracking

Visual monitoring and inspections requirements of the General Permit are triggered by a qualifying rain event. The General Permit defines a qualifying rain event as any event that produces one-half inch of precipitation. A minimum of 48 hours of dry weather will be used to distinguish between separate qualifying storm events.

Weather tracking: The QSP should daily consult the National Oceanographic and Atmospheric Administration (NOAA) for the weather forecasts. These forecasts can be obtained from <http://www.srh.noaa.gov>. Weather reports should be printed and maintained with the SWPPP in Attachment U “Weather Report Log.”

Rain Gauges: The QSP shall install one rain gauge on the project site. Locate the gauge in an open area away from obstructions such as trees or overhangs. Mount the gauge on a post at a height of 3

to 5 feet with the gauge extending several inches beyond the post. The top of the gauge must be leveled, and the post not in an area where rainwater can indirectly splash from sheds, trailers, or equipment.

The rain gauge shall be read daily during normal site scheduled hours. The rain gauge should be read at approximately the same time every day and the date and time of each reading recorded. Log rain gauge readings, and follow the rain gauge instructions to obtain accurate measurements.

Once the rain gauge reading has been recorded, accumulated rain shall be emptied and the gauge reset.

For comparison with the site rain gauge, the nearest appropriate governmental rain gauges are located at <http://www.vcwatershed.org/fws/automedia.htm>.

7.4 Monitoring Locations

Sampling locations are based on proximity to planned visible & non-visible pollutant storage, occurrence or use; accessibility for sampling, personnel safety; and other factors in accordance with the applicable requirements in the Permit. Planned sampling locations are shown on the Erosion Control Plan in Attachment B and include the following:

- See the Erosion Control Plan for Sampling Locations. (TBD at construction site by QSP)

If an operational activity or storm water inspection conducted 24 hours prior to or during a rain event identifies the presence of a material storage, waste storage, or operations area with spills or the potential for the discharge of non-visible pollutants to surface waters or a storm sewer system that was an unplanned location and has not been identified on the Erosion Control Plans, sampling locations will be selected using the same rationale as that used to identify planned locations.

7.5 Safety

Safety practices for sample collection will be in accordance with the OSHA guidelines. A summary of the safety requirements that apply to sampling personnel is provided below.

This project is not required to collect samples or conduct visual observations/inspections under the following conditions:

During dangerous weather conditions such as flooding and electrical storms
Outside of scheduled site business hours.

Scheduled site business hours are: 7:30 AM – 4:00 PM

If monitoring (visual monitoring or sample collection) of the site is unsafe because of the dangerous conditions noted above then the QSP shall document the conditions for why an exception to performing the monitoring was necessary. The exemption documentation shall be filed in Attachment Q “Sampling Activity Log.”

7.6 Visual Monitoring (Inspections)

The SWPPM(Contractor)/QSP will inspect the site weekly, prior to a forecast storm, after a rain event that causes runoff from the construction site, at 24-hour intervals during extended rain events, and as specified in the CGP and contract documents. It may also be necessary to inspect the site daily based on specific construction activities; such as the import/export of material that have the potential to track sediment onto public streets. The results of all inspections and assessments will be documented, a copy shall be provided to the Owner/Developer/Contractor within 24-hours of the inspection, and copies of the completed inspection checklists will be maintained with the SWPPP. Site inspections conducted for monitoring purposes will be performed using the inspection checklist shown in Attachment H.

The name(s) and contact number(s) of the assigned inspection personnel are listed below:

Contractor’s Storm Water Pollution Prevention Manager(s):

_____TBD

Qualified SWPPP Practitioner (QSP):

_____TBD

Sampling & Inspection:

_____TBD

Laboratory Name: _____TBD

7.7 Water Quality Sampling and Analysis

The Sampling and Analysis Plan (SAP) for Non-Visible Pollutants, pH and Turbidity describe the strategy and schedule for monitoring storm water discharges from the project site and off-site activities directly related to the project, in accordance with the requirements of the Construction General Permit. Samples of run-off from qualifying storms events and analysis samples for pH and turbidity are not required. The most effective way to avoid the sampling and analysis requirements for non-visible pollutants, and to ensure permit compliance, is to avoid the exposure of construction materials to precipitation and storm water run off.

The CGP also requires that in the event of visible & non visible pollutant discharge the discharger self report the discharge violation and comply with any RWQCB Enforcement actions.

7.8 Watershed Monitoring Option

The project is not participating in W.M.O.

7.9 Quality Assurance and Quality Control

An effective Quality Assurance and Quality Control (QA/QC) plan shall be implemented as part of the SWPPP to ensure that analytical data can be used with confidence. QA/QC procedures to be initiated include the following:

- Field logs
- Clean sampling techniques
- CoCs
- QA/QC samples
- Data verification

7.10 Reporting Requirements and Records Retention

All records of stormwater monitoring information and copies of reports (including Annual Reports) must be retained for a period of at least three years from date of submittal or longer if required by the Regional Water Board.

Results of visual monitoring, field measurements and laboratory analyses must be kept in the SWPPP along with the CoCs, and other documentation related to the monitoring.

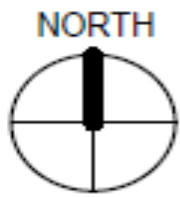
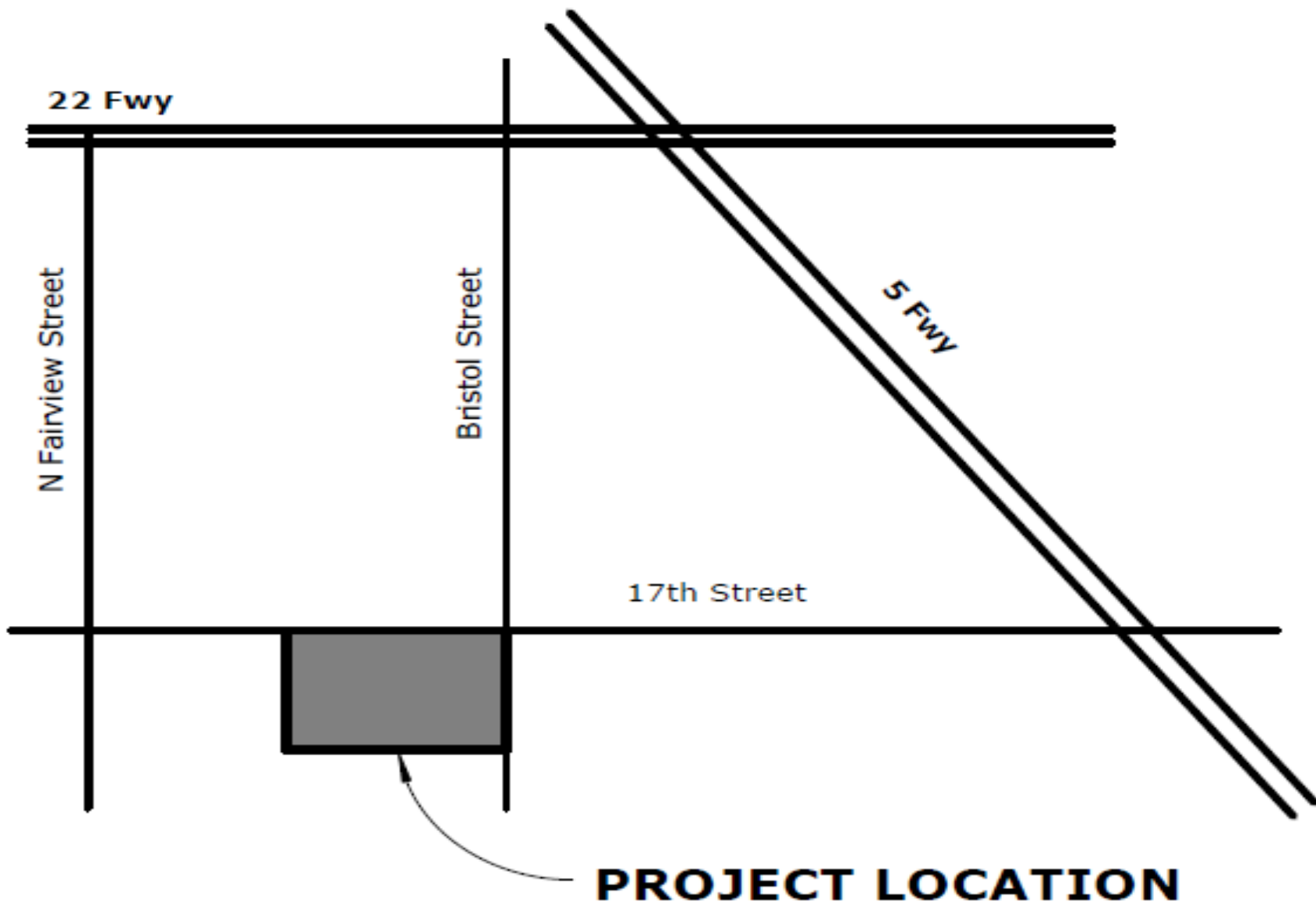
Records are to be kept onsite while construction is ongoing. Records to be retained include:

- The date, place, and time of inspections, sampling, visual observations, and measurements including precipitation
- The individual(s) who performed the inspections, sampling, visual observation, and field measurements
- The date and time of field measurements and laboratory analyses
- The individual(s) who performed the laboratory analyses
- A summary of all analytical results, the methods detection limits and reporting limits, and the analytical techniques or methods used
- Rain gauge readings from site inspections
- QA/QC records and results
- Calibration records
- Visual observation and sample collection exemption records
- The records of any corrective actions and follow-up activities that resulted from analytical results, visual observations, or inspections.

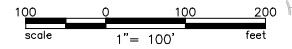
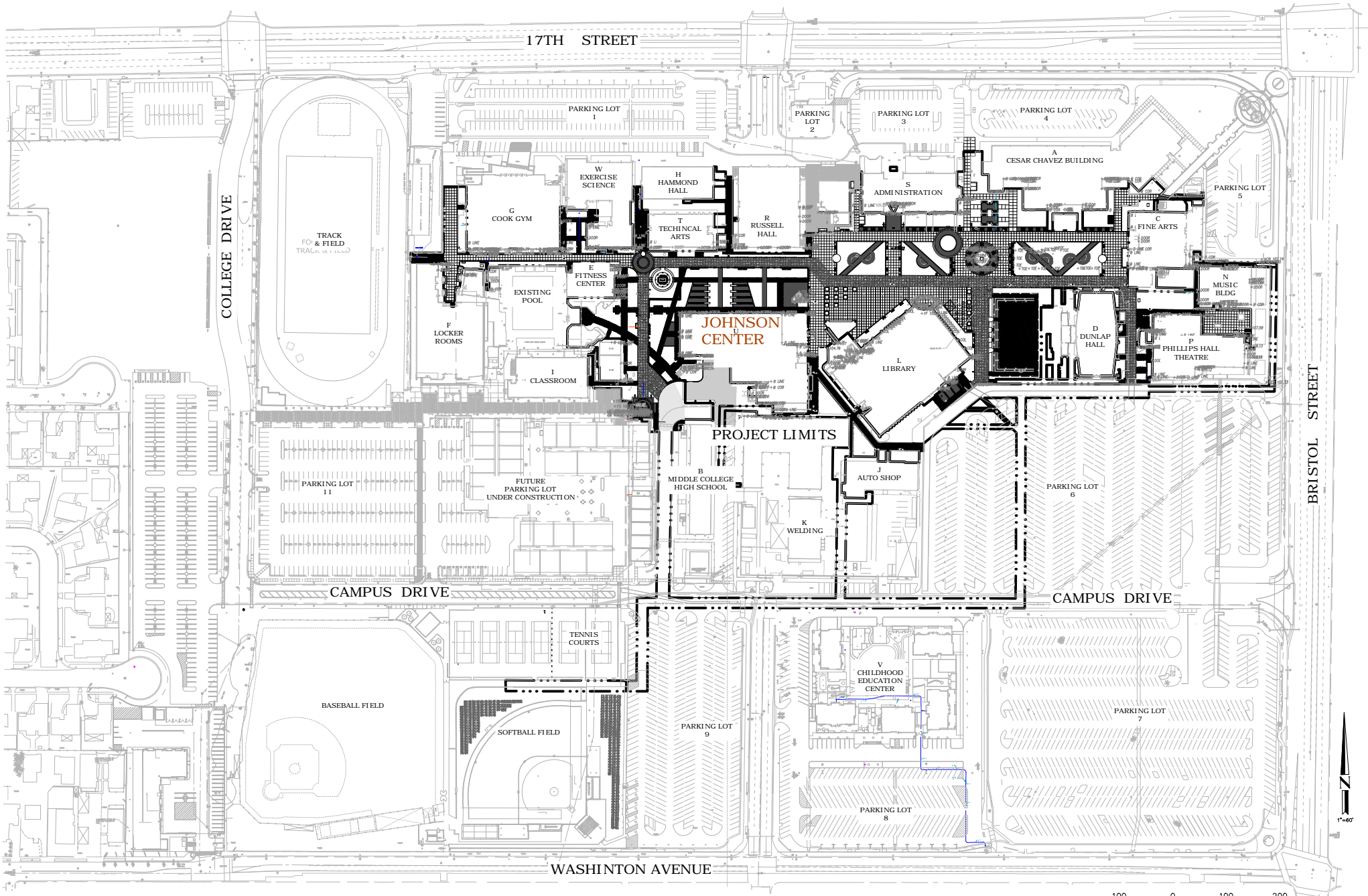
Attachment A

Exhibits

- Vicinity Map
- Campus Map



VICINITY MAP



Attachment B

Erosion Control Plan

See full size Erosion Control Plan at construction site
For any BMP changes and/or additions during construction

Sampling locations will be identified on full size
Erosion Control Plan at construction site

Attachment C

BMP Site Specific Checklist

Attachment C

Site Specific BMP Checklist

SITE SPECIFIC CONSTRUCTION BMPS CHECKLIST						
The BMPs listed here should be considered for every project. Those BMPs that are not included in the SWPPP must be checked as "Not Used" with a brief statement describing why it is not being used.						
EROSION CONTROL BMPs						
BMP No.	BMP	Grading/Land Disturbance	Utilities	Vertical Construction	Landscaping	If not used, state reason
EC-1	Scheduling	X	X	X	X	
EC-2	Preservation of Existing Vegetation	X	X	X	X	
EC-3	Hydraulic Mulch					Using EC-8
EC-4	Hydroseeding					Using EC-8
EC-5	Soil Binders					Using EC-8
EC-6	Straw Mulch					Using EC-8
EC-7	Geotextiles & Mats					Using EC-8
EC-8	Wood Mulching				X	
EC-9	Earth Dikes & Drainage Swales	X	X	X	X	
EC-10	Velocity Dissipation Devices					
EC-11	Slope Drains	X	X	X	X	
EC-12	Streambank Stabilization					N/A
EC-13	Polyacrylamide					N/A

SITE SPECIFIC CONSTRUCTION BMPs CHECKLIST

The BMPs listed here should be considered for every project. Those BMPs that are not included in the SWPPP must be checked as "Not Used" with a brief statement describing why it is not being used.

SEDIMENT CONTROL BMPs

BMP No.	BMP	Grading/Land Disturbance	Utilities	Vertical Construction	Landscaping	If not used, state reason
SE-1	Silt Fence	X	X	X	X	
SE-2	Sediment Basin					Using SE-10
SE-3	Sediment Trap					Using SE-10
SE-4	Check Dam					Using SE-10
SE-5	Fiber Rolls					Using SE-6
SE-6	Gravel Bag Berm	X	X	X	X	
SE-7	Street Sweeping and Vacuuming	X	X	X	X	
SE-8	Sand Bag Barrier					Using SE-6
SE-9	Straw Bale Barrier					Using SE-10
SE-10	Storm Drain Inlet Protection	X	X	X	X	

WIND EROSION CONTROL BMPs

WE-1	Wind Erosion Control	X	X	X	X	
------	----------------------	---	---	---	---	--

TRACKING CONTROL BMPs

TC-1	Stabilized Construction Entrance/Exit	X	X	X	X	
TC-2	Stabilized Construction Roadway	X	X	X	X	
TC-3	Entrance/Outlet Tire Wash					N/A

SITE SPECIFIC CONSTRUCTION BMPS CHECKLIST

The BMPs listed here should be considered for every project. Those BMPs that are not included in the SWPPP must be checked as "Not Used" with a brief statement describing why it is not being used.

EROSION CONTROL BMPs

BMP No.	BMP	Grading/Land Disturbance	Utilities	Vertical Construction	Landscaping	If not used, state reason
NS-1	Water Conservation Practices	X	X	X	X	
NS-2	Dewatering Operations	X	X	X	X	
NS-3	Paving and Grinding Operations	X	X	X	X	
NS-4	Temporary Stream Crossing					N/A
NS-5	Clear Water Diversion					N/A
NS-6	Illicit Connection/ Discharge	X	X	X	X	
NS-7	Potable Water/Irrigation	X	X	X	X	
NS-8	Vehicle and Equipment Cleaning	X	X	X	X	
NS-9	Vehicle and Equipment Fueling					N/A
NS-10	Vehicle and Equipment Maintenance					N/A
NS-11	Pile Driving Operations					N/A
NS-12	Concrete Curing	X	X	X	X	
NS-13	Concrete Finishing	X	X	X	X	
NS-14	Material and Equipment Use Over Water					N/A
NS-15	Demolition Adjacent to Water					N/A
NS-16	Temporary Batch Plants					N/A

SITE SPECIFIC CONSTRUCTION BMPs CHECKLIST

The BMPs listed here should be considered for every project. Those BMPs that are not included in the SWPPP must be checked as "Not Used" with a brief statement describing why it is not being used.

EROSION CONTROL BMPs

BMP No.	BMP	Grading/Land Disturbance	Utilities	Vertical Construction	Landscaping	If not used, state reason
WM-1	Material Delivery and Storage	X	X	X	X	
WM-2	Material Use	X	X	X	X	
WM-3	Stockpile Management	X	X	X	X	
WM-4	Spill Prevention and Control	X	X	X	X	
WM-5	Solid Waste Management	X	X	X	X	
WM-6	Hazardous Waste Management	X	X	X	X	
WM-7	Contaminated Soil Management	X	X	X	X	
WM-8	Concrete Waste Management	X	X	X	X	
WM-9	Sanitary/Septic Waste Management	X	X	X	X	
WM-10	Liquid Waste Management	X	X	X	X	

Attachment D

Computation Sheet for Determining Runoff Coefficients

Attachment D

Computation Sheet for Determining Runoff Coefficients

$$\text{Total Site Area} = \underline{\quad 1.75 \text{ Acres} \quad} \quad (\text{A})$$

Existing Site Conditions

$$\text{Impervious Site Area}^1 = \underline{\quad 1.575 \text{ Acres} \quad} \quad (\text{B})$$

$$\text{Impervious Site Area Runoff Coefficient}^{2,4} = \underline{\quad .95 \quad} \quad (\text{C})$$

$$\text{Pervious Site Area}^3 = \underline{\quad 0.175 \text{ Acres} \quad} \quad (\text{D})$$

$$\text{Pervious Site Area Runoff Coefficient}^4 = \underline{\quad .35 \quad} \quad (\text{E})$$

$$\text{Existing Site Area Runoff Coefficient} \frac{(B \times C) + (D \times E)}{(A)} = \underline{\quad .89 \quad} \quad (\text{F})$$

Proposed Site Conditions (after construction)

$$\text{Impervious Site Area}^1 = \underline{\quad 0 \text{ Acres} \quad} \quad (\text{G})$$

$$\text{Impervious Site Area Runoff Coefficient}^{2,4} = \underline{\quad 0 \quad} \quad (\text{H})$$

$$\text{Pervious Site Area}^3 = \underline{\quad 1.75 \text{ Acres} \quad} \quad (\text{I})$$

$$\text{Pervious Site Area Runoff Coefficient}^4 = \underline{\quad .35 \quad} \quad (\text{J})$$

$$\text{Proposed Site Area Runoff Coefficient} \frac{(G \times H) + (I \times J)}{(A)} = \underline{\quad .35 \quad} \quad (\text{K})$$

1. Includes paved areas, areas covered by buildings, and other impervious surfaces.
2. Use 0.95 unless lower or higher runoff coefficient can be verified.
3. Includes areas of vegetation, most unpaved or uncovered soil surfaces, and other pervious areas.
4. Refer to local Hydrology Manual for typical C values.

Attachment E

Computation Sheet for Determining Run-on Discharges

Attachment E – *Not Applicable*

Computation Sheet for Determining Run-on Discharges

Existing Site Conditions

Area Runoff Coefficient	=	<u> N/A </u>	(A)
Area Rainfall Intensity	=	<u> N/A </u>	(B)
Drainage Area	=	<u> N/A </u>	(C)
Site Area Run-on Discharge (A) x (B) x (C)	=	<u> N/A </u>	(D)

Attachment F

Permit Registration Document (PRD)

Insert copies of

- PRDs
- WDID
- NOI
- Other Related Documents

Attachment G

Program Maintenance, Inspection, and Repair of Construction Site BMPs

Attachment G

Program for Maintenance, Inspection, and Repair of Construction Site BMPs

<i>The contractor is using the following guidelines for maintenance, inspection, and repair of BMPs identified in the SWPPP</i>		
BEST MANAGEMENT PRACTICES (BMPs)	INSPECTION FREQUENCY (all controls)	MAINTENANCE/REPAIR PROGRAM
TEMPORARY EROSION CONTROL BMPs		
EC-1 Scheduling EC-2 Preservation of Existing Vegetation EC-8 Wood Mulch EC-9 Earth Dikes & Drainage Swales EC-11 Slope Drains	Daily, Weekly, Monthly (as applicable)	See Attachment P for BMP Fact Sheet
TEMPORARY SEDIMENT CONTROL BMPs		
SE-1 Silt Fence SE-6 Gravel Bag Berm SE-7 Street Sweeping and Vacuuming SE-10 Storm Drain Inlet Protection	Daily, Weekly, Monthly (as applicable)	See Attachment P for BMP Fact Sheet
WIND EROSION CONTROL BMPs		
WE-1 Wind Erosion Control	Daily, Weekly, Monthly (as applicable)	See Attachment P for BMP Fact Sheet
TRACKING CONTROL BMPs		
TC-1 Stabilized Construction Entrance/Exit TC-2 Stabilized Construction Roadway	Daily, Weekly, Monthly (as applicable)	See Attachment P for BMP Fact Sheet
NON-STORM WATER MANAGEMENT BMPs		
NS-1 Water Conservation Practices NS-2 Dewatering Operations NS-3 Paving & Grinding Operations NS-6 Illicit Connection/Discharge NS-7 Potable Water/Irrigation NS-8 Vehicle and Equipment Cleaning NS-12 Concrete Curing NS-13 Concrete Finishing	Daily, Weekly, Monthly (as applicable)	See Attachment Q for BMP Fact Sheet

The contractor is using the following guidelines for maintenance, inspection, and repair of BMPs identified in the SWPPP

BEST MANAGEMENT PRACTICES (BMPs)	INSPECTION FREQUENCY (all controls)	MAINTENANCE/REPAIR PROGRAM
WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BMPs		
WM-1 Material Delivery and Storage WM-2 Material Use WM-3 Stockpile Management WM-4 Spill Prevention and Control WM-5 Solid Waste Management WM-6 Hazardous Waste Management WM-7 Contaminated Soil Management (as applicable) WM-8 Concrete Waste Management WM-9 Sanitary/Septic Waste Management WM-10 Liquid Waste Management	Daily, Weekly, Monthly (as applicable)	See Attachment Q for BMP Fact Sheet

Attachment H

Storm Water Quality Construction Site Inspection Checklist

Attachment H

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	RSCCD/Santa Ana College – Johnson Center - DEMO			
Contractor	TBD			
Inspector's Name				
Inspector's Title				
Signature				
Date of Inspection				
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain			<input type="checkbox"/> After a rain event
	<input type="checkbox"/> 24-hr intervals during extended rain			<input type="checkbox"/> Other _____
Season (Check Applicable)	<input type="checkbox"/> Rainy		<input type="checkbox"/> Non-Rainy	
Storm Data	Storm Start Date & Time:		Storm Duration (hrs):	
	Time elapsed since last storm (Circle Applicable Units)	Min.	Hr.	Days
			Approximate Rainfall Amount (inches)	

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE		
Total Project Area	_____ 1.75 _____	Acres
Field Estimate of Active DSAs	_____	Acres
Field Estimate of Non-Active DSAs	_____	Acres

Stormwater Construction Site Inspection Report

General Information			
Project Name	SAC-Johnson Ctr- DEMO		
WDID #		Location	Santa Ana
Date of Inspection		Start Time	
Inspector's Name(s)			
Inspector's Title(s)			
Inspector's Contact Information			
Inspector's Qualifications			
Describe present phase of construction			
Type of Inspection: Regular Pre-storm event During storm event & Post-storm event			
Weather Information			
Has there been a storm event since the last inspection? Yes No If yes, provide: Storm Start Date & Time: Storm Duration (hrs): Approximate Amount of Precipitation (in):			
Weather at time of this inspection? Clear Cloudy Rain # Sleet Fog Snowing High Winds Other: Temperature:			
Have any discharges occurred since the last inspection? Yes No If yes, describe:			
Are there any discharges at the time of inspection? Yes No If yes, describe:			

Site-specific BMPs

	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	Wind Screen	Yes No	Yes No	
2	Construction Entrance	Yes No	Yes No	
3	Gravel Bags	Yes No	Yes No	
4	Inlet Protectors	Yes No	Yes No	
5	Trash Bins	Yes No	Yes No	
6		Yes No	Yes No	
7		Yes No	Yes No	
8		Yes No	Yes No	
9		Yes No	Yes No	
10		Yes No	Yes No	

Overall Site Issues

	BMP/activity	Implemented ?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	Yes No	Yes No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	Yes No	Yes No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	Yes No	Yes No	
4	Are discharge points and receiving waters free of any sediment deposits?	Yes No	Yes No	

5	Are storm drain inlets properly protected?	Yes No	Yes No	
6	Is the construction exit preventing sediment from being tracked into the street?	Yes No	Yes No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	Yes No	Yes No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	Yes No	Yes No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	Yes No	Yes No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	Yes No	Yes No	
11	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	Yes No	Yes No	
12	Surplus BMP's	Yes No	Yes No	
13	SWPPP Documentation and Wall Map	Yes No	Yes No	
14		Yes No	Yes No	

Quarterly Non-Storm Water Inspection Report

Project Name: SAC DEMO of Johnson Ctr. **Weather Conditions:** _____
Inspector/Supervised Name: _____ **Date & Time:** _____
For Period: INSERT QUARTERLY DATES:

Structural Best Management Practices Housekeeping for Non-Visible Pollutants	<u>BMP Conditions</u> E, NM, N/A YES or NO	Actions Taken or BMPs Added Comments
Drainage Areas		
Free of Floating & Suspended Material		
Free of Sheen/Discoloration		
Free of Turbidity		
Free of Odor		
<u>Construction Materials Storage Areas</u>		
Materials Properly Stored		
Pollutants Covered		
Pollutants Bermed		
<u>Construction Waste Management</u>		
Containment Stockpiled Waste		
Containment Sanitary Facilities		
Containment Waste Watertight Containers		
<u>Vehicle Storage/Fueling/Spill Prevention</u>		
Fueling Procedures/Designated Areas		
Vehicle Storage w/Containment		
Spill Kit Onsite		
<u>Concrete Residuals & Washout Wastes</u>		
Properly Placed Washout		
Secondary Containment		
<u>Landscaped Materials</u>		
Stored Away from Flow Lines		
Containment Fertilizers/Soil Amendments		
Secondary Containment Plants		
Observations /Comments:		
<u>E-EFFECTIVE N/M-NEEDS MAINTENACE N/A-NOT APPLICABLE</u> <u>YES or NO</u>		

Attachment I

Trained Contractor Personnel Log & Certificates

Attachment I

Trained Contractor Personnel Log

Storm Water Management Training Log

Project Name: Santa Ana College – Johnson Center DEMO

Project Number/Location: Santa Ana, County of Orange

Storm Water Management Topic: (check as appropriate)

- | | |
|-----------------------------------------------------|---------------------------------------------------------------------------|
| <input type="checkbox"/> Erosion Control | <input type="checkbox"/> Sediment Control |
| <input type="checkbox"/> Wind Erosion Control | <input type="checkbox"/> Tracking Control |
| <input type="checkbox"/> Non-storm water management | <input type="checkbox"/> Waste Management and Materials Pollution Control |
| <input type="checkbox"/> Storm Water Sampling | |

Specific Training Objective: _____

Location: _____

Date: _____

Instructor: _____

Telephone: _____

Course Length (hours): _____

Attachment J

Subcontractor Notification Letter and Notification Log

Attachment J

Subcontractor Notification Letter and Notification Log

[SAMPLE SWPPP Notification]

Company
Address
City, State, ZIP

Dear Sir/Madam,

Please be advised that the California State Water Resources Control Board has adopted the General Permit (Order No. 2009-0009-DWG) for Storm Water Discharges Associated with Construction Activity (CAS000002). The goal of these permits is prevent the discharge of pollutants associated with construction activity from entering the storm drain system, ground and surface waters.

A Storm Water Pollution Prevention Plan (SWPPP) has been developed in order to implement the requirements of the Permits.

As a subcontractor, you are required to comply with the SWPPP and the Permits for any work that you perform on site. Any person or group who violates any condition of the Permits may be subject to substantial penalties in accordance with state and federal law. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP and the Permits. A copy of the Permits and the SWPPP are available for your review at the construction office. Please contact me if you have further questions.

Sincerely,

Name
Title

SUBCONTRACTOR NOTIFICATION LOG

Project Name: Santa Ana College – Johnson Center DEMO

Project Number/Location: Santa Ana College, County of Orange

SUBCONTRACTOR COMPANY NAME	CONTACT NAME	ADDRESS	PHONE NUMBER	PAGER/ FIELD PHONE	DATE NOTIFICATION LETTER SENT	TYPE OF WORK

(USE ADDITIONAL PAGES AS NECESSARY)

Attachment K

Notice of Non-Compliance

Attachment K

Notice of Non-Compliance

To: _____
Name of City Engineer / Regional Board Staff

Date: _____

Subject: Notice of Non-Compliance

Project Name: Santa Ana College – Johnson Center DEMO

Project Number/Location: Santa, County of Orange

In accordance with the NPDES Statewide Permit for Storm Water Discharges Associated with Construction Activity, the following instance of discharge is noted:

Date, time, and location of discharge

Insert description and date of event

Nature of the operation that caused the discharge

Insert description of operation

Initial assessment of any impact cause by the discharge

Insert assessment

Existing BMP(s) in place prior to discharge event

List BMPs in place

Date of deployment and type of BMPs deployed after the discharge.

BMPs deployed after the discharge (with dates)

Steps taken or planned to reduce, eliminate and/or prevent recurrence of the discharge

Insert steps taken to prevent recurrence

Implementation and maintenance schedule for any affected BMPs

Insert implementation and maintenance schedule

If further information or a modification to the above schedule is required, notify the contact person below.

Name of Contact Person

Title

Company

Telephone Number

Signature

Date

Attachment L

Storm Water Pollution Prevention Plan (SWPPP) and Monitoring Program Checklist

Attachment L

Storm Water Pollution Prevention Plan (SWPPP) and Monitoring Program Checklist

CONSTRUCTION PROJECT: Santa Ana College – Johnson Center DEMO

CONTRACTOR: TBD

CONTRACT NO: _____

SECTION A: STORM WATER POLLUTION PREVENTION PLAN (SWPPP)				
CHECK IF ADDRESSED N/A IF NOT APPLICABLE	SWPPP Section	ITEM	GENERAL PERMIT REF.	COMMENTS
	SWPPP Cert.	SWPPP Certification and Approval	Section VII.B	
	1	SWPPP Requirements		
	1.1	Introduction	Section XIV.A	
	1.2	Permit Registration Documents	Section II.B.5	
	1.3	SWPPP Availability and Implementation	Section XIV.C	
	1.4	SWPPP Amendments	Section XIV.A	
	1.5	Retention of Records	Section I.J.69, IV.G	
	1.6	Required Non-Compliance Reporting	Section V.C.4	
	1.7	Annual Report	Section XVI	
	1.8	Changes to Permit Coverage	Section II.C	
	1.9	Notice of Termination	Section II.D	
	2	Project Information		
	2.1	Project and Site Description	Attachment B.J.2	
	2.2	Stormwater Run-On From Offsite Areas	Section XIV.A.4	
	2.3	Findings of the Construction Site Sediment and Receiving Water Risk Determination	Appendix C, D, E	
	2.4	Construction Schedule	Appendix F	
	2.5	Potential Construction Site Pollutant Sources	Attachments C, D, E – Section B.5	

SECTION A: STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

CHECK IF ADDRESSED N/A IF NOT APPLICABLE	SWPPP Section	ITEM	GENERAL PERMIT REF.	COMMENTS
	2.6	Identification of Non-Stormwater Discharges	Section XIV.A.2	
	3	<i>Best Management Practices</i>		
	3.1	Schedule for BMP Implementation		
	3.2	Erosion and Sediment Control	Section XIV.A.3, 5	
	3.3	Non-Stormwater and Materials Management	Section XIV.A.2	
	3.4	Post-Construction Stormwater Management Measures	Section XIII.A, B	
	4	<i>BMP Inspection, Maintenance, and Rain Event Action Plans</i>		
	4.1	BMP Inspection and Maintenance	Attachments C, D, E – Section G.5	
	4.2	Rain Event Action Plans	Attachments D, E - Section H	
	5	<i>Training</i>	Section VII	
	6	<i>Responsible Parties and Operators</i>		
	6.1	Responsible Parties	Section VII.B.4	
	6.2	Contractor List	Section VII.B.5	
	7	<i>Construction Site Monitoring Program</i>		
	7.1	Purpose	Attachments C, D, E – Section I.1.a	
	7.2	Applicability of Permit Requirements	CSMP	
	7.3	Weather and Rain Event Tracking	CSMP	
	7.4	Monitoring Locations	CSMP	
	7.5	Safety	CSMP	
	7.6	Visual Monitoring (Inspections)	CSMP	
	7.7	Water Quality Sampling and Analysis	CSMP	
	7.8	Watershed Monitoring Option	CSMP	
	7.9	Quality Assurance and Quality Control	CSMP	
	7.10	Reporting Requirements and Records Retention	CSMP	

Attachment M

Electronic Form for Annual Certification

To be Completed on the SWRCB“SMARTS”
Stormwater Multi Application
Reporting & Tracking System

Attachment N

Risk Level Determination; NPDES Order #2010-0014

- Risk Level Determination Documents

- New State Wide General Construction Permit Order #2009-0009-DWQ, effective September 2, 2009; as amended by Order #2010-0014-DWQ, February 14, 2011 & by 2012-0006-DWQ, July 17, 2012

Attachment O

Notice of Termination (NOT)

To be Completed on the SWRCB“SMARTS”
Stormwater Multi Application
Reporting & Tracking System

Attachment P

BMP Fact Sheets

- Erosion Controls
- Sediment Controls
- Wind Erosion Controls
- Tracking Controls
- Non-Stormwater Controls
- Waste Management Controls

Attachment Q

Sampling Activity Log

Attachment Q

Sampling Activity Log

RAIN EVENT GENERAL INFORMATION				
Project Name	Santa Ana College – Johnson Center DEMO			
Contractor	TBD			
Sampler's Name				
Signature				
Date of Sampling				
Season (Check Applicable)	<input type="checkbox"/> Rainy		<input type="checkbox"/> Non-Rainy	
Storm Data	Storm Start Date & Time:		Storm Duration (hrs):	
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (inches)	

For rainfall information: <http://cdec.water.ca.gov/weather.html> or <http://www.wrh.noaa.gov/wrhq/nwspage.html>

SAMPLE LOG		
Sample Identification	Sample Location	Sample Collection Date and Time

Specific sample locations descriptions may include: 100 ft upstream from discharge at eastern boundary, runoff from northern waste storage area, downgradient of inlet located near the intersection of A Street and B avenue, etc.

FIELD ANALYSIS		
<input type="checkbox"/> Yes <input type="checkbox"/> No		
Sample Identification	Test	Result

Attachment R

Construction Material and Pollutant Testing Guidance Table

**Attachment R
Pollutant Testing Guidance Table ¹**

Category	Construction Site Material	Visually Observable?	Pollutant Indicators ²	Suggested Analyses Field ³	Laboratory
Asphalt Products	Hot Asphalt	Yes - Rainbow Surface or Brown Suspension	Visually Observable - No Testing Required		
	Asphalt Emulsion				
	Liquid Asphalt (tack coat)				
	Cold Mix				
	Crumb Rubber	Yes – Black, solid material	Visually Observable - No Testing Required		
	Asphalt Concrete (Any Type)	Yes - Rainbow Surface or Brown Suspension	Visually Observable - No Testing Required		
Cleaning Products	Acids	No	pH Acidity Anions (acetic acid, phosphoric acid, sulfuric acid, nitric acid, hydrogen chloride)	pH Meter Acidity Test Kit	EPA 150.1 (pH)
					SM 2310B (Acidity)
					EPA 300.0 (Anion)
	Bleaches	No	Residual Chlorine	Chlorine	SM 4500-CL G (Res. Chlorine)
	Detergents	Yes - Foam	Visually Observable - No Testing Required		
	TSP	No	Phosphate	Phosphate	EPA 365.3 (Phosphate)
	Solvents	No	VOC	None	EPA 601/602 or EPA 624 (VOC)
SVOC			None	EPA 625 (SVOC)	

**Attachment R
Pollutant Testing Guidance Table ¹**

Category	Construction Site Material	Visually Observable?	Pollutant Indicators ²	Suggested Analyses Field ³	Laboratory
Portland Concrete Cement & Masonry Products	Portland Cement (PCC)	Yes - Milky Liquid	Visually Observable - No Testing Required		
	Masonry products	No	pH	pH Meter Alkalinity or Acidity Test Kit	EPA 150.1 (pH)
			Alkalinity		SM 2320 (Alkalinity)
	Sealant (Methyl Methacrylate - MMA)	No	Methyl Methacrylate	None	EPA 625 (SVOC)
			Cobalt		EPA 200.8 (Metal)
			Zinc		
	Incinerator Bottom Ash Bottom Ash Steel Slag Foundry Sand Fly Ash Municipal Solid Waste	No	Aluminum Calcium Vanadium Zinc	Calcium Test	EPA 200.8 (Metal) EPA 200.7 (Calcium)
	Mortar	Yes - Milky Liquid	Visually Observable - No Testing Required		
	Concrete Rinse Water	Yes - Milky Liquid	Visually Observable - No Testing Required		
	Non-Pigmented Curing Compounds	No	Acidity	pH Meter Alkalinity or Acidity Test Kit	SM 2310B (Acidity)
Alkalinity			SM 2320 (Alkalinity)		
pH			EPA 150.1 (pH)		
VOC			EPA 601/602 or EPA 624 (VOC)		
SVOC			EPA 625 (SVOC)		
Landscaping and Other	Aluminum Sulfate	No	Aluminum	TDS Meter	EPA 200.8 (Metal)

**Attachment R
Pollutant Testing Guidance Table ¹**

Category	Construction Site Material	Visually Observable?	Pollutant Indicators ²	Suggested Analyses Field ³	Laboratory	
Products			TDS	Sulfate	EPA 160.1 (TDS)	
			Sulfate		EPA 300.0 (Sulfate)	
	Sulfur-Elemental	No	Sulfate	Sulfate	EPA 300.0 (Sulfate)	
	Fertilizers-Inorganic ⁴	No	Nitrate	Nitrate	EPA 300.0 (Nitrate)	
			Phosphate	Phosphate	EPA 365.3 (Phosphate)	
			Organic Nitrogen	None	EPA 351.3 (TKN)	
			Potassium	None	EPA 200.8 (Metal)	
	Fertilizers-Organic	No	TOC	Nitrate	EPA 415.1 (TOC)	
			Nitrate		EPA 300.0 (Nitrate)	
			Organic Nitrogen		EPA 351.3 (TKN)	
			COD		EPA 410.4 (COD)	
	Natural Earth (Sand, Gravel, and Topsoil)	Yes - Cloudiness and turbidity	Visually Observable - No Testing Required			
	Herbicide	No	Herbicide	None	Check lab for specific herbicide or pesticide	
	Pesticide		Pesticide			
	Lime		Alkalinity	pH Meter Alkalinity or Acidity Test Kit	SM 2320 (Alkalinity)	
PH			EPA 150.1 (pH)			
Painting Products	Paint	Yes	Visually Observable - No Testing Required			

**Attachment R
Pollutant Testing Guidance Table ¹**

Category	Construction Site Material	Visually Observable?	Pollutant Indicators ²	Suggested Analyses Field ³	Laboratory
	Paint Strippers	No	VOC	None	EPA 601/602 or EPA 624 (VOC)
			SVOC	None	EPA 625 (SVOC)
	Resins	No	COD	None	EPA 410.4 (COD)
			SVOC		EPA 625 (SVOC)
	Sealants	No	COD	None	EPA 410.4 (COD)
	Solvents	No	COD	None	EPA 410.4 (COD)
			VOC		EPA 601/602 or EPA 624 (VOC)
			SVOC		EPA 625 (SVOC)
	Lacquers, Varnish, Enamels, and Turpentine	No	COD	None	EPA 410.4 (COD)
			VOC		EPA 601/602 or EPA 624 (VOC)
			SVOC		EPA 625 (SVOC)
	Thinners	No	VOC	None	EPA 601/602 or EPA 624 (VOC)
			COD		EPA 410.4 (COD)
	Portable Toilet Waste Products	Portable Toilet Waste	Yes	Visually Observable - No Testing Required	
Contaminated Soil ⁵	Aerially Deposited Lead ³	No	Lead	None	EPA 200.8 (Metal)

**Attachment R
Pollutant Testing Guidance Table ¹**

Category	Construction Site Material	Visually Observable?	Pollutant Indicators ²	Suggested Analyses Field ³	Laboratory
	Petroleum	Yes – Rainbow Surface Sheen and Odor	Visually Observable - No Testing Required		
	Other	No	Contaminant Specific	Contaminant Specific	Contaminant Specific
Line Flushing Products	Chlorinated Water	No	Total chlorine	Chlorine	SM 4500-CL G (Res. Chlorine)
Adhesives	Adhesives	No	COD	None	EPA 410.4 (COD)
			Phenols	Phenol	EPA 420.1 (Phenol)
			SVOC	None	EPA 625 (SVOC)
Dust Palliative Products	Salts (Magnesium Chloride, Calcium Chloride, and Natural Brines)	No	Chloride	Chloride	EPA 300.0 (Chloride)
			TDS	TDS Meter	EPA 160.1 (TDS)
			Cations (Sodium, Magnesium, Calcium)	None	EPA 200.7 (Cations)
Vehicle	Antifreeze and Other Vehicle Fluids	Yes - Colored Liquid	Visually Observable - No Testing Required		
	Batteries	No	Sulfuric Acid	None	EPA 300.0 (Sulfate)
			Lead	None	EPA 200.8 (Metal)
			pH	pH Meter Alkalinity or Acidity Test Kit	EPA 150.1 (pH)
	Fuels, Oils, Lubricants	Yes - Rainbow Surface Sheen and Odor	Visually Observable - No Testing Required		
Soil Amendment/Stabilization	Polymer/Copolymer ^{6,7}	No	Organic Nitrogen	None	EPA 351.3 (TKN)
			BOD	None	EPA 405.1 (BOD)

**Attachment R
Pollutant Testing Guidance Table ¹**

Category	Construction Site Material	Visually Observable?	Pollutant Indicators ²	Suggested Analyses Field ³	Laboratory
Products			COD	None	EPA 410.4 (COD)
			DOC	None	EPA 415.1 (DOC)
			Nitrate	Nitrate	EPA 300.0 (Nitrate)
			Sulfate	Sulfate	EPA 300.0 (Sulfate)
			Nickel	None	EPA 200.8 (Metal)
	Straw/Mulch	Yes - Solids	Visually Observable - No Testing Required		
	Lignin Sulfonate	No	Alkalinity	Alkalinity	SM 2320 (Alkalinity)
			TDS	TDS Meter	EPA 160.1 (TDS)
	Psyllium	No	COD	None	EPA 410.4 (COD)
			TOC		EPA 415.1 (TOC)
	Guar/Plant Gums	No	COD	None	EPA 410.4 (COD)
			TOC		EPA 415.1 (TOC)
			Nickel		EPA 200.8 (Metal)
	Gypsum	No	pH	pH Meter Alkalinity or Acidity Test Kit	EPA 150.1 (pH)
			Calcium	Calcium	EPA 200.7 (Calcium)
			Sulfate	Sulfate	EPA 300.0 (Sulfate)
			Aluminum	None	EPA 200.8 (Metal)
Barium					
Manganese					
Vanadium					
Treated Wood Products	Ammoniacal-Copper-Zinc-	No	Arsenic	Total Chromium	EPA 200.8 (Metal)

Attachment R Pollutant Testing Guidance Table ¹

Category	Construction Site Material	Visually Observable?	Pollutant Indicators ²	Suggested Analyses Field ³	Laboratory
	Arsenate (ACZA)		Total Chromium		
	Copper-Chromium-Arsenic (CCA)		Copper		
	Ammoniacal-Copper-Arsenate (ACA)		Zinc		
	Copper Naphthenate				
	Creosote	Yes - Rainbow Surface or Brown Suspension	Visually Observable - No Testing Required		

Notes:

1. 1 If specific pollutant is known, analyze only for that specific pollutant. See MSDS to verify.
2. For each construction material, test for one of the pollutant indicators. Bolded pollutant indicates lowest analysis cost or best indicator. However, the composition of the specific construction material, if known, is the first criterion for selecting which analysis to use.
3. See www.hach.com, www.lamotte.com, www.ysi.com and www.chemetrics.com for some of the test kits
4. If the type of inorganic fertilizer is unknown, analyze for all pollutant indicators listed.
5. Only if special handling requirements are required in the contract documents for aerially deposited lead (ADL)
6. If used with a dye or fiber matrix, it is considered visually observable and no testing is required.
7. Based upon research conducted by the State of California Department of Transportation (Caltrans), the following copolymers/polymers do not discharge pollutants and water quality sampling and analysis is **not** required: Super Tak™, M-Binder™, Fish Stik™, Pro40dc™, Fisch-Bond™, and Soil Master WR™.

Attachment S

Discharge Reporting Log

Attachment S

Discharge Reporting Log

This documentation logs discharge incidents as reported in Attachment K, Notice of Discharge, Written Notice, or Order.

Discharge Event						Action Steps			
Date	Time	Location	Operation During Discharge	Impact	Existing BMP(s) During Discharge	Date	Steps Taken to Reduce, Eliminate or Prevent Recurrence	New BMP Implementation and Maintenance Schedule	Date Report Submitted to County / RWQCB

Attachment T

List of Certified Laboratories in the Southern California

Attachment U

Weather Report Log

Attachment V

Monitoring and Inspection Records and Reports

Attachment W

Training/Certification Logs
