

STORMWATER POLLUTION PREVENTION PLAN

for

Moorpark College Parking Structure

RISK LEVEL 2

Legally Responsible Person [LRP]:

Ventura County Community College District

255 West Stanley Ave. #105

Ventura

Handel Evans

805 986-5821

Project Address:

7075 Campus Road

Moorpark, CA 93021

SWPPP Prepared by:

Storm Water Resources, LLC

25030 Avenue Tibbitts, #K

Valencia CA, 91355

Jeanne Duarte

QSD# 0052

SWPPP Preparation Date

March 16, 2012

Estimated Project Dates:

Start of Construction **July 16, 2012**

Completion of Construction

January 17, 2014

Table of Contents

Table of Contents	ii
Qualified SWPPP Developer.....	1
Legally Responsible Person.....	2
Amendment Log.....	3
Section 1 SWPPP Requirements	4
1.1 Introduction.....	4
1.2 Permit Registration Documents	4
1.3 SWPPP Availability and Implementation.....	5
1.4 SWPPP Amendments.....	5
1.5 Retention of Records.....	6
1.6 Required Non-Compliance Reporting	7
1.7 Annual Report.....	7
1.8 Changes to Permit Coverage.....	7
1.9 Notice of Termination.....	7
Section 2 Project Information	8
2.1 Project and Site Description.....	8
2.1.1 Site Description.....	8
2.1.2 Existing Conditions.....	8
2.1.4 Geology and Groundwater	8
2.1.5 Project Description.....	8
2.2 Permits and Governing Documents	9
2.3 Stormwater Run-On from Offsite Areas.....	10
2.4 Findings of the Construction Site Sediment and Receiving Water Risk Determination	10
2.5 Construction Schedule	11
2.6 Potential Construction Activity and Pollutant Sources.....	11
2.7 Identification of Non-Stormwater Discharges	11
<i>Expected Non-Stormwater Discharges and Controls</i>	13
2.8 Required Site Map Information	13
Section 3 Best Management Practices	15
3.1 Schedule for BMP Implementation	15

3.2	Erosion and Sediment Control	16
3.2.1	Erosion Control.....	16
3.2.2	Sediment Controls.....	18
3.3	Non-Stormwater Controls and Waste and Materials Management	20
3.3.1	Non-Stormwater Controls.....	20
3.3.2	Materials Management and Waste Management.....	22
3.4	Post construction Stormwater Management Measures	24
Section 4	BMP Inspection, Maintenance, and Rain Event Action Plans	25
4.1	BMP Inspection and Maintenance	25
4.2	Rain Event Action Plans	25
Section 5	Training	27
Section 6	Responsible Parties and Operators	28
6.1	Responsible Parties	28
6.2	Contractor List	29
Section 7	Construction Site Monitoring Program.....	30
7.1	Purpose.....	30
7.2	Applicability of Permit Requirements	30
7.3.	Weather and Rain Event Tracking	31
7.3.1	Weather Tracking.....	31
7.3.2	Rain Gauges	31
7.4	Monitoring Locations.....	31
7.5	Safety and Monitoring Exemptions	31
7.6	Visual Monitoring.....	32
7.6.1	Routine Observations and Inspections.....	32
7.6.1.1	Routine BMP Inspections.....	32
7.6.1.2	Non-Stormwater Discharge Observations.....	32
7.6.2	Rain-Event Triggered Observations and Inspections	33
7.6.2.1	Visual Observations Prior to a Forecasted Qualifying Rain Event	33
7.6.2.2	BMP Inspections During an Extended Storm Event	33
7.6.2.2	Visual Observations Following a Qualifying Rain Event.....	33
7.6.3	Visual Monitoring Procedures	34
7.6.4	Visual Monitoring Follow-Up and Reporting.....	34
7.6.5	Visual Monitoring Locations	34

7.7	Water Quality Sampling and Analysis.....	35
7.7.1	Sampling and Analysis Plan for Non-Visible Pollutants in Stormwater Runoff Discharges.....	35
7.7.1.1	Sampling Schedule.....	35
7.7.1.2	Sampling Locations.....	36
7.7.1.3	Monitoring Preparation	36
7.7.1.4	Analytical Constituents	37
7.7.1.5	Sample Collection.....	41
7.7.1.6	Sample Analysis	41
7.7.1.7	Data Evaluation and Reporting.....	41
7.7.2	Sampling and Analysis Plan for pH and Turbidity in Stormwater Runoff Discharges.....	42
7.7.2.1	Sampling Schedule	42
7.7.2.2	Sampling Locations.....	42
7.7.2.3	Monitoring Preparation	43
7.7.2.4	Field Parameters	44
7.7.2.5	Sample Collection.....	44
7.7.2.6	Field Measurements.....	44
7.7.2.7	Data Evaluation and Reporting.....	45
7.7.3	Additional Monitoring Following an NEL Exceedance	45
7.7.4	Sampling and Analysis Plan for Non-Stormwater Discharges	45
7.7.4.1	Sampling Schedule	46
7.7.4.2	Sampling Locations.....	46
7.7.4.3	Monitoring Preparation	46
7.7.4.4	Analytical Constituents	47
7.7.4.5	Sample Collection.....	49
7.7.4.6	Sample Analysis	49
7.7.4.7	Data Evaluation and Reporting.....	50
7.7.5	Sampling and Analysis Plan for Other Pollutants Required by the Regional Water Board	52
7.7.6	Training of Sampling Personnel	52
7.7.7	Sample Collection and Handling	52
7.7.7.1	Sample Collection.....	52

7.7.7.2	Sample Handling	53
7.7.7.3	Sample Documentation Procedures	53
7.8	Active Treatment System Monitoring	54
7.9	Bioassessment Monitoring.....	54
7.10	Watershed Monitoring Option	54
7.11	Quality Assurance and Quality Control	54
7.11.1	Field Logs	54
7.11.2	Clean Sampling Techniques	55
7.11.3	Chain of Custody	55
7.11.4	QA/QC Samples.....	55
7.11.4.1	Field Duplicates	55
7.11.4.2	Equipment Blanks	56
7.11.4.3	Field Blanks	56
7.11.4.4	Travel Blanks	56
7.11.5	Data Verification.....	56
7.12	Records Retention.....	57
CSMP Attachment 1:	Weather Reports	58
CSMP Attachment 2:	Monitoring Records	59
CSMP Attachment 3:	Example Forms	60
CSMP Attachment 4:	Field Meter Instructions	64
Sample Collection.....	64	
Sample Documentation Procedures	65	
CSMP Attachment 5:	Supplemental Information	67
Section 8	References	68
Appendix A:	Calculations	69
Computation Sheet for Determining Runoff Coefficients	71	
Existing Site Conditions	71	
Proposed Site Conditions (after construction)	71	
Computational Sheet for Determining Run-on Discharges	72	
Existing Site Conditions	72	
Appendix B:	Site Maps	73
Appendix C:	Permit Registration Documents	74
Appendix D:	SWPPP Amendment Certifications	75

<i>Appendix E:</i>	<i>Submitted Changes to PRDs</i>	<i>77</i>
<i>Appendix F:</i>	<i>Construction Schedule</i>	<i>79</i>
<i>Appendix G:</i>	<i>Construction Activities, Materials Used, and Associated Pollutants</i>	<i>80</i>
<i>Appendix H:</i>	<i>CASQA Stormwater BMP Handbook Portal: Construction Fact Sheets</i>	<i>83</i>
<i>Appendix I:</i>	<i>BMP Inspection Form</i>	<i>84</i>
<i>Appendix J:</i>	<i>Project Specific Rain Event Action Plan Template</i>	<i>88</i>
<i>Appendix K:</i>	<i>Training Reporting Form</i>	<i>92</i>
<i>Appendix L:</i>	<i>Responsible Parties</i>	<i>94</i>
<i>Appendix M:</i>	<i>Contractors and Subcontractors</i>	<i>95</i>
<i>Appendix N:</i>	<i>Construction General Permit</i>	<i>97</i>

Qualified SWPPP Developer

Approval and Certification of the Stormwater Pollution Prevention Plan

Project Name:

Moorpark College Parking Structure

Project Number/ID [if applicable]

“This Stormwater Pollution Prevention Plan and Attachments were prepared under my direction to meet the requirements of the California Construction General Permit (SWRCB Orders No. 2009-009-DWQ as amended by Order 2010-0014-DWQ). I certify that I am a Qualified SWPPP Developer in good standing as of the date signed below.”

QSD Signature

Jeanne Duarte

Date

0052

QSD Name

President, Storm Water Resources, LLC

QSD Certificate Number

661 295-3013

Title and Affiliation

jdurate@swres.org

Telephone Number

Email

Legally Responsible Person

Approval and Certification of the Stormwater Pollution Prevention Plan

Project Name: Moorpark College Parking Structure

Project Number/ID [if applicable]

"I certify under penalty of law that 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 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."

Ventura County Community College District

Legally Responsible Person [organization]

Signature of Authorized Representative of Legally Responsible Person

Handel Evans

Name of Authorized Representative of Legally Responsible Person

Date

805 986-5821

Telephone Number

Amendment Log

Project Name: Moorpark College Parking Structure

Project Number/ID [if applicable] _____

Amendment No.	Date	Brief Description of Amendment, include section and page number	Prepared and Approved By
			Name: QSD#
			Name: QSD#
			Name: QSD#
			Name: QSD#
			Name: QSD#
			Name: QSD#
			Name: QSD#
			Name: QSD#
			Name: QSD#

Section 1 SWPPP Requirements

1.1 INTRODUCTION

The Moorpark College Parking Structure project comprises approximately 3.4 acres and is located at 7075 Campus Road in Moorpark, California. The property is owned by Ventura County Community College District and is being developed by Heery International. The projects location is shown on the Site Map in Appendix B.

This Stormwater Pollution Prevention Plan (SWPPP) is designed to comply with California's General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities (General Permit) Order No. 2009-0009-DWQ as amended by Order No. 2010-0014-DWQ (NPDES No. CAS000002) issued by the State Water Resources Control Board (State Water Board). This SWPPP has been prepared following the SWPPP Template provided on the California Stormwater Quality Association Stormwater *Best Management Practice Handbook Portal: Construction* (CASQA, 2010). In accordance with the General Permit, Section XIV, this SWPPP is designed to address the following:

- Pollutants and their sources, including sources of sediment associated with construction, construction site erosion and other activities associated with construction activity are controlled;
- Where not otherwise required to be under a Regional Water Quality Control Board (Regional Water Board) permit, all non-stormwater discharges are identified and either eliminated, controlled, or treated;
- Site BMPs are effective and result in the reduction or elimination of pollutants in stormwater discharges and authorized non-stormwater discharges from construction activity to the Best Available Technology/Best Control Technology (BAT/BCT) standard;

Calculations and design details as well as BMP controls for are complete and correct, Appendix A.

Identify and provide methods to implement Rain Event Action Plan (REAP).

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:

1. Notice of Intent (NOI);
2. Risk Assessment (Construction Site Sediment and Receiving Water Risk Determination);
3. Site Map;
4. Annual Fee;
5. Signed Certification Statement (LRP Certification is provided electronically with SMARTS PRD submittal); and

6. SWPPP.

Site Maps can be found in Appendix B. A copy of the submitted PRDs shall also be kept in Appendix C along with the Waste Discharge Identification (WDID) confirmation.

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

1.3 SWPPP AVAILABILITY AND IMPLEMENTATION

The discharger shall make the SWPPP available at the construction site during working hours (see Section 7.5 of CSMP for 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 (General Permit Section II Part C).
- BMPs do not meet the objectives of reducing or eliminating pollutants in stormwater discharges.

Additionally, the SWPPP shall be amended when:

- There is a change in construction or operations which may affect the discharge of pollutants to surface waters, groundwater(s), or a municipal separate storm sewer system (MS4);
- When there is a change in the project duration that changes the project's risk level; or
- When deemed necessary by the QSD. The QSD has determined that the changes listed in Table 1.1 can be field determined by the QSP. All other changes shall be made by the QSD as formal amendments to the SWPPP.

The following items shall be included in each amendment:

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

Amendment shall be logged at the front of the SWPPP and certification kept in Appendix D. The SWPPP text shall be revised replaced, and/or hand annotated as necessary to properly

convey the amendment. SWPPP amendments must be made by a QSD. The following changes have been designated by the QSD as "to be field determined" and constitute minor changes that the QSP may implement based on field conditions.

Table 1.1 List of Changes to be Field Determined

Candidate changes for field location or determination by QSP⁽¹⁾	Check changes that can be field located or field determined by QSP
Increase quantity of an Erosion or Sediment Control Measure	X
Relocate/Add stockpiles or stored materials	X
Relocate or add toilets	X
Relocate vehicle storage and/or fueling locations	X
Relocate areas for waste storage	X
Relocate water storage and/or water transfer location	X
Changes to access points (entrance/exits)	X
Change type of Erosion or Sediment Control Measure	X
Changes to location of erosion or sediment control	X
Minor changes to schedule or phases	X
Changes in construction materials	X
<i>(1) Any field changes not identified for field location or field determination by QSP must be approved by QSD</i>	

1.5 RETENTION OF RECORDS

Paper or electronic records of documents required by this SWPPP shall be retained for a minimum of three years from the date generated or date submitted, whichever is later, for the following items:

These records shall be available at the Site until construction is complete. Records assisting in the determination of compliance with the General Permit shall be made available within a reasonable time, to the Regional Water Board, State Water Board or U.S. Environmental Protection Agency (EPA) upon request. Requests by the Regional Water Board for retention of records for a period longer than three years shall be adhered to.

1.6 REQUIRED NON-COMPLIANCE REPORTING

If a discharge violation occurs the QSP shall immediately notify the LRP and the LRP shall file a violation report electronically to the Regional Water Board within 30 days of identification of non-compliance using SMARTS. Corrective measures will be implemented immediately following the discharge or written notice of non-compliance from the Regional Water Board. Discharges and corrective actions will be documented on the NAL/NEL Exceedance Site Evaluation Report Form in CSMP Attachment 3 “Example Forms.”

The report to the LRP and to the Regional Water Board will contain the following items:

- The date, time, location, nature of operation and type of unauthorized discharge.
- 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.

Reporting requirements for Numeric Action Levels (NALs) exceedances are discussed in Section 7.7.2.7.

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 allows for the reduction or increase of 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 purchased by a different entity; or when new acreage is added to the project.

Modified PRDs shall be filed electronically within 30 days of a reduction or increase in total disturbed area if a change in permit covered acreage is to be sought. The SWPPP shall be modified appropriately, shall be logged at the front of the SWPPP and certification of SWPPP amendments are to be kept in Appendix D. Updated PRDs submitted electronically via SMARTS can be found in Appendix E.

1.9 NOTICE OF TERMINATION

A 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. The NOT shall be submitted within 90 days of completion of construction. The Regional Water Board will consider a 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

2.1.1 Site Description

The Moorpark College Parking Structure project site comprises approximately 3.4 and is located at 7075 Campus Road in Moorpark, California. The project site is located approximately 0.5 mile east of the intersection of Collins Drive and Campus Park Drive and north of Highway 118. The project is located at Lat. 34.2979/Lon. -118.8370 and is identified on the Site Map in Appendix B.

2.1.2 Existing Conditions

As of the initial date of this SWPPP, the project site is situated within an existing athletic field that is currently covered with grass watered via a subsurface irrigation system. Prior to the opening of the college in 1967 the property was utilized as farm/ranch land. There are no known historic sources of contamination at the site.

2.1.3 Existing Drainage

The topography in the area of the planned parking structure is predominantly flatland terrain that slopes gently to the southwest. The elevation of the project site ranges from approximately 650 to 635 feet above mean sea level (msl). Surface drainage at the site currently flows to the southwest, and is conveyed through a combination of surface runoff and storm drain systems. Stormwater discharges to the Arroyo Simi. Existing site topography, drainage patterns, and stormwater conveyance systems are shown on SWPPP Plan.

The project discharges to Arroyo Simi which is a tributary of the Calleguas Creek that is listed for water quality impairment on the most recent 303(d)-list [for:

- sediment

2.1.4 Geology and Groundwater

The site is underlain quaternary alluvium, artificial fill, and bedrock. Groundwater occurs beneath the site at within 50 feet of the ground surface based upon information contained on the Seismic Hazard Zones map of the Simi Valley West Quadrangle (April 7, 1997). The southwestern side of the planned development appears to be within a mapped Seismic Hazard Zone for Liquefaction.

2.1.5 Project Description

Project grading will occur on approximately 3.4 acres of the project, which comprises approximately 100 percent of the total area. The limits of grading are shown on SWPPP Plan in Appendix B. Grading will include both cut and fill activities, with the total graded material estimated to be 82,500 cubic yards. A surplus of approximately 1,500 cubic yards of material

will be created when grading is completed. It is our understanding that the material will be stockpiled between the baseball field and the driving range, to the north of the project site.

2.1.6 Developed Condition

Post construction surface drainage will be directed to the southwest via sheet flow runoff and subsurface drainage. A portion of the drainage will flow to a detention and retention area to be located west of the southern part of the planned parking area and a portion of the drainage will flow to the municipal storm drain system.

Post construction drainage patterns and conveyance systems are presented on the SWPPP Plan in Appendix B and on Sheets SD-C4.10, 20, 30, 40, 50, and 60 of the Civil Plans by Penfield & Smith.

Construction Site Estimates

Construction Site Area: 3.4 acres

Impervious site area before construction: 0.9%

Impervious site area after construction: 03.16%

Runoff coefficient before construction ^(a): 0.43 cfs

Runoff coefficient after construction: 0.87 cfs

Anticipated storm water flow onto the construction site ^(a): 2.92 ft³/sec

^(a) See Appendix A for calculations

2.2 PERMITS AND GOVERNING DOCUMENTS

In addition to the General Permit, the following documents have been taken into account while preparing this SWPPP

- Regional Water Board requirements
- Basin Plan requirements
- Contract Documents
- Air Quality Regulations and Permits
- Federal Endangered Species Act
- National Historic Preservation Act/Requirements of the State Historic Preservation Office
- State of California Endangered Species Act
- Clean Water Act Section 401 Water Quality Certifications and 404 Permits
- CA Department of Fish and Game 1600 Streambed Alteration Agreement

2.3 STORMWATER RUN-ON FROM OFFSITE AREAS

There is no anticipated offsite run-on to this construction site because the adjacent areas have been previously developed and have controlled drainage.

2.4 FINDINGS OF THE CONSTRUCTION SITE SEDIMENT AND RECEIVING WATER RISK DETERMINATION

A construction site risk assessment has been performed for the project and the resultant risk level is Risk Level 2.

The risk level was determined through a site specific analysis. The risk level is based on project duration, location, proximity to impaired receiving waters and soil conditions. A copy of the Risk Level determination submitted on SMARTS with the PRDs is included in Appendix C.

Table 2.2 and Table 2.3 summarize the sediment and receiving water risk factors and document the sources of information used to derive the factors.

Table 2.2 Summary of Sediment Risk

RUSLE Factor	Value	Method for establishing value
R	109.46	EPA Rainfall Erosivity Factor Calculator
K	0.37	Site Specific Analysis utilizing the USDA Web Soil Survey
LS	1.46	Site Specific Analysis utilizing a weighted average of the surface topography
Total Predicted Sediment Loss (tons/acre)		
Overall Sediment Risk Low Sediment Risk < 15 tons/ acre Medium Sediment Risk >= 15 and < 75 tons/acre High Sediment Risk >= 75 tons/acre		<input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High

Runoff from the project site discharges into [description (e.g., moderately defined channels that are intercepted by irrigation canals)] that discharge into [water body, and eventually into the water body].

Table 2.3 Summary of Receiving Water Risk

Receiving Water Name	303(d) Listed for Sediment Related Pollutant ⁽¹⁾	TMDL for Sediment Related Pollutant ⁽¹⁾	Beneficial Uses of COLD, SPAWN, and MIGRATORY ⁽¹⁾
Arroyo Simi/ Calleguas Creek	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Overall Receiving Water Risk			<input type="checkbox"/> Low <input checked="" type="checkbox"/> High
(1) If yes is selected for any option the Receiving Water Risk is High			

Risk Level 2 sites are subject to both the narrative effluent limitations and numeric effluent standards. The narrative effluent limitations require stormwater discharges associated with construction activity to minimize or prevent pollutants in stormwater and authorized non-stormwater through the use of controls, structures and best management practices. Discharges from Risk Level 2 site are subject to NALs for pH and turbidity shown in Table 2-4. This SWPPP has been prepared to address Risk Level 2 requirements (General Permit Attachment D).

Table 2.4 Numeric Action Levels		
Parameter	Unit	Numeric Action Level Daily Average
pH	pH units	Lower NAL = 6.5 Upper NAL = 8.5
Turbidity	NTU	250 NTU

2.5 CONSTRUCTION SCHEDULE

The site sediment risk was determined based on construction taking place between July 16, 2012 and January 17, 2014. Modification or extension of the schedule (start and end dates) may affect risk determination and permit requirements. The LRP shall contact the QSD if the schedule changes during construction to address potential impact to the SWPPP. The estimated schedule for planned work can be found in Appendix F.

2.6 POTENTIAL CONSTRUCTION ACTIVITY AND POLLUTANT SOURCES

Appendix G includes a list of construction activities and associated materials that are anticipated to be used onsite. These activities and associated materials will or could potentially contribute pollutants, other than sediment, to stormwater runoff.

The anticipated activities and associated pollutants were used in Section 3 to select the Best Management Practices for the project. Location of anticipated pollutants and associated BMPs are show on the Site Map in Appendix B.

For sampling requirements for non-visible pollutants associated with construction activity please refer to Section 7.7.1. For a full and complete list of onsite pollutants, refer to the Material Safety Data Sheets (MSDS), which are retained onsite at the construction trailer.

2.7 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 into storm drainage systems or waterways, which are not authorized under the General Permit and listed in the SWPPP, or authorized under a separate NPDES permit, are prohibited.

Non-stormwater discharges that are authorized from this project site include the following:

- Discharges from fire-fighting activities.
- Fire hydrant flushing.
- Waters used to wash vehicles where detergents are not used.
- Water used to control dust.
- Potable water including uncontaminated water line flushing.
- Routine external building wash down that does not use detergents.
- Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used.
- Uncontaminated air conditioning or compressor condensate.
- Uncontaminated ground water or spring water.
- Foundation or footing drains where flows are not contaminated with process materials such as solvents.
- Uncontaminated excavation dewatering.
- Landscape irrigation.

The discharge of non-storm water is authorized under the following conditions:

-
- The discharge does not cause or contribute to a violation of any water quality standard.
 - The discharge does not violate any provision of the General Permit.
 - The discharge is not prohibited by the applicable Basin Plan
 - The SWPPP includes and implements BMPs required by the General Permit to prevent or reduce the contact of the non-stormwater discharge with construction materials or equipment
 - The discharge does not contain toxic constituents in toxic amounts or (other) significant quantities of pollutants.
-

Expected Non-Stormwater Discharges and Controls

Allowable non stormwater discharges anticipated to be encountered in this project include the following:

Waters to Control Dust

Dust control will be implemented when winds exceed 15 MPH or when there is visible dust generated from the site via a small diameter fire or garden hose or with a water truck depending on the area to be serviced. All efforts will be made not to over apply the water spray to avoid any surface run-off. In the event there is surface run-off it will be controlled with the use of perimeter controls approved by the QSD. Any discharges from the property will be observed and operations ceased if levels of sediment in the discharge pose a negative impact on the drainage system or receiving waters.

2.8 REQUIRED SITE MAP INFORMATION

The construction project’s Site Map(s) showing the project location, surface water boundaries, geographic features, construction site perimeter and general topography and other requirements identified in Attachment B of the General Permit is located in Appendix B. Table 2.6 identifies Map or Sheet Nos. where required elements are illustrated.

Table 2.6 Required Map Information

Included on Map/Plan Sheet No. ⁽¹⁾	Required Element
SWPPP	The project’s surrounding area (vicinity)
SWPPP	Site layout
SWPPP	Construction site boundaries
SWPPP	Drainage areas
SWPPP	Discharge locations
SWPPP	Sampling locations
SWPPP	Areas of soil disturbance (temporary or permanent)
SWPPP	Active areas of soil disturbance (cut or fill)
SWPPP	Locations of runoff BMPs
SWPPP	Locations of erosion control BMPs
SWPPP	Locations of sediment control BMPs
N/A	ATS location (if applicable)
Project Plans	Locations of sensitive habitats, watercourses, or other features which are not to be disturbed
Project Plans	Locations of all post construction BMPs
SWPPP	Waste storage areas

Table 2.6 Required Map Information

Included on Map/Plan Sheet No. ⁽¹⁾	Required Element
SWPPP	Vehicle storage areas
SWPPP	Material storage areas
SWPPP	Entrance and Exits
SWPPP	Fueling Locations

Notes: (1) Indicate maps or drawings that information is included on (e.g., Vicinity Map, Site Map, Drainage Plans, Grading Plans, Progress Maps, etc.)

Section 3 Best Management Practices

3.1 SCHEDULE FOR BMP IMPLEMENTATION

Pre-construction BMPs:

- Install site perimeter controls
- Install sediment controls as needed
- Install diversion channel as needed
- Install inlet protection as needed
- Install stabilized entrance/exit controls

During Construction

- Install waste management controls
- Install concrete washouts prior to need
- Implement wind erosion controls as needed
- Implement dust control measures as needed
- Implement non-stormwater controls as needed
- Implement material and vehicle BMPs as needed
- Continue installation, maintenance and repair of sediment control BMPs as needed
- Continue installation, maintenance and repair of erosion control BMPs as needed

Rainy Season

- Install Wet Weather BMPs per SWPPP plan
- Stabilize disturbed areas prior to each rain event
- Install temporary drainage devices as needed during rain event

All areas that are to remain inactive for 14 days or more shall be stabilized with a temporary stabilization method such as hydraulic mulch, hydroseeding, soil binder, geosynthetic blanket, etc.

All maintenance, repairs or replacement of BMPs must be completed within 72 hours after noting deficiency. BMPs requiring a design change must begin work within 72 hours and complete the work as soon as possible upon completion of the design changes. All design changes must be signed and certified by the QSD.

3.2 EROSION AND SEDIMENT CONTROL

Erosion and sediment controls are required by the General Permit to provide effective reduction or elimination of sediment related pollutants in stormwater discharges and authorized non-stormwater discharges from the Site. Applicable BMPs are identified in this section for erosion control, sediment control, tracking control, and wind erosion control.

3.2.1 Erosion Control

Erosion control, also referred to as soil stabilization, consists of source control measures that are designed to prevent soil particles from detaching and becoming transported in stormwater runoff. Erosion control BMPs protect the soil surface by covering and/or binding soil particles.

This construction project will implement the following practices to provide effective temporary and final erosion control during construction:

1. Preserve existing vegetation where required and when feasible.
2. The area of soil disturbing operations shall be controlled such that the Contractor is able to implement erosion control BMPs quickly and effectively.
3. Stabilize non-active areas within 14 days of cessation of construction activities or sooner if stipulated by local requirements.
4. Control erosion in concentrated flow paths by applying erosion control blankets, check dams, erosion control seeding or alternate methods.
5. Prior to the completion of construction, apply permanent erosion control to remaining disturbed soil areas.

Sufficient erosion control materials shall be maintained onsite to allow implementation in conformance with this SWPPP.

The following temporary erosion control BMP selection table indicates the BMPs that shall be implemented to control erosion on the construction site. Fact Sheets for temporary erosion control BMPs are provided in Appendix H.

Table 3.2 Temporary Erosion Control BMPs

CASQA Fact Sheet	BMP Name	Meets a Minimum Requirement ⁽¹⁾	BMP Used		If not used, state reason
			YES	NO	
EC-1	Scheduling	✓	X		
EC-2	Preservation of Existing Vegetation	✓	X		
EC-3	Hydraulic Mulch	✓ ⁽²⁾	X		
EC-4	Hydroseed	✓ ⁽²⁾		X	
EC-5	Soil Binders	✓ ⁽²⁾		X	
EC-6	Straw Mulch	✓ ⁽²⁾		X	
EC-7	Geotextiles and Mats	✓ ⁽²⁾		X	
EC-8	Wood Mulching	✓ ⁽²⁾		X	
EC-9	Earth Dike and Drainage Swales	✓ ⁽³⁾	X		
EC-10	Velocity Dissipation Devices		x		
EC-11	Slope Drains			X	
EC-12	Stream Bank Stabilization			X	
EC-14	Compost Blankets	✓ ⁽²⁾		X	
EC-15	Soil Preparation-Roughening			X	
EC-16	Non-Vegetated Stabilization	✓ ⁽²⁾		X	
WE-1	Wind Erosion Control	✓	X		
Alternate BMPs Used:					If used, state reason:
<p>⁽¹⁾ Applicability to a specific project shall be determined by the QSD.</p> <p>⁽²⁾ The QSD shall ensure implementation of one of the minimum measures listed or a combination thereof to achieve and maintain the Risk Level requirements.</p> <p>⁽³⁾ Run-on from offsite shall be directed away from all disturbed areas, diversion of offsite flows may require design/analysis by a licensed civil engineer and/or additional environmental permitting</p>					

These temporary erosion control BMPs shall be implemented in conformance with the following guidelines and as outlined in the BMP Factsheets provided in Appendix H. If there is a conflict between documents, the Site Map will prevail over narrative in the body of the SWPPP or guidance in the BMP Fact Sheets. Site specific details in the Site Map prevail over standard details included in the Site Map. The narrative in the body of the SWPPP prevails over guidance in the BMP Fact Sheets.

3.2.2 Sediment Controls

Sediment controls are temporary or permanent structural measures that are intended to complement 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.

The following sediment control BMP selection table indicates the BMPs that shall be implemented to control sediment on the construction site. Fact Sheets for temporary sediment control BMPs are provided in Appendix H.

Table 3.3 Temporary Sediment Control BMPs

CASQA Fact Sheet	BMP Name	Meets a Minimum Requirement ⁽¹⁾	BMP used		If not used, state reason
			YES	NO	
SE-1	Silt Fence	✓ ^{(2) (3)}	X		
SE-2	Sediment Basin			X	
SE-3	Sediment Trap			X	
SE-4	Check Dams		X		
SE-5	Fiber Rolls	✓ ⁽²⁾⁽³⁾	X		
SE-6	Gravel Bag Berm	✓ ⁽³⁾	X		
SE-7	Street Sweeping	✓	X		
SE-8	Sandbag Barrier			X	
SE-9	Straw Bale Barrier			X	
SE-10	Storm Drain Inlet Protection	✓ RL2&3	X		
SE-11	ATS			X	
SE-12	Temporary Silt Dike			X	
SE-13	Compost Sock and Berm	✓ ⁽³⁾		X	
SE-14	Biofilter Bags	✓ ⁽³⁾		X	
TC-1	Stabilized Construction Entrance and Exit	✓	X		
TC-2	Stabilized Construction Roadway			X	
TC-3	Entrance Outlet Tire Wash			X	
Alternate BMPs Used:					If used, state reason:
⁽¹⁾ Applicability to a specific project shall be determined by the QSD ⁽²⁾ The QSD shall ensure implementation of one of the minimum measures listed or a combination thereof to achieve and maintain the Risk Level requirements ⁽³⁾ Risk Level 2 & 3 shall provide linear sediment control along toe of slope, face of slope, and at the grade breaks of exposed slope					

These temporary sediment control BMPs shall be implemented in conformance with the following guidelines and in accordance with the BMP Fact Sheets provided in Appendix H. If there is a conflict between documents, the Site Map will prevail over narrative in the body of the SWPPP or guidance in the BMP Fact Sheets. Site specific details in the Site Map prevail over standard details included in the Site Map. The narrative in the body of the SWPPP prevails over guidance in the BMP Fact Sheets.

3.3 NON-STORMWATER CONTROLS AND WASTE AND MATERIALS MANAGEMENT

3.3.1 Non-Stormwater Controls

Non-stormwater discharges into storm drainage systems or waterways, which are not authorized under the General Permit, are prohibited. Non-stormwater discharges for which a separate NPDES permit is required by the local Regional Water Board are prohibited unless coverage under the separate NPDES permit has been obtained for the discharge. The selection of non-stormwater BMPs is based on the list of construction activities with a potential for non-stormwater discharges identified in Section 2.7 of this SWPPP.

The following non-stormwater control BMP selection table indicates the BMPs that shall be implemented to control sediment on the construction site. Fact Sheets for temporary non-stormwater control BMPs are provided in Appendix H.

Table 3.4 Temporary Non-Stormwater BMPs

CASQA Fact Sheet	BMP Name	Meets a Minimum Requirement ⁽¹⁾	BMP used		If not used, state reason
			YES	NO	
NS-1	Water Conservation Practices	✓	X		
NS-2	Dewatering Operation			X	
NS-3	Paving and Grinding Operation		X		
NS-4	Temporary Stream Crossing			X	
NS-5	Clear Water Diversion		X		
NS-6	Illicit Connection- Illegal Discharge Connection	✓	X		
NS-7	Potable Water Irrigation Discharge Detection			X	
NS-8	Vehicle and Equipment Cleaning	✓	X		
NS-9	Vehicle and Equipment Fueling	✓	X		
NS-10	Vehicle and Equipment Maintenance	✓	X		
NS-11	Pile Driving Operation			X	
NS-12	Concrete Curing		X		
NS-13	Concrete Finishing		X		
NS-14	Material and Equipment Use Over Water			X	
NS-15	Demolition Removal Adjacent to Water			X	
NS-16	Temporary Batch Plants			X	
Alternate BMPs Used:			If used, state reason:		
⁽¹⁾ Applicability to a specific project shall be determined by the QSD					

Non-stormwater BMPs shall be implemented in conformance with the following guidelines and in accordance with the BMP Fact Sheets provided in Appendix H. If there is a conflict between documents, the Site Map will prevail over narrative in the body of the SWPPP or guidance in the BMP Fact Sheets. Site specific details in the Site Map prevail over standard details included in the Site Map. The narrative in the body of the SWPPP prevails over guidance in the BMP Fact Sheets.

3.3.2 Materials Management and Waste Management

Materials management control practices consist of implementing procedural and structural BMPs for handling, storing and using construction materials to prevent the release of those materials into stormwater discharges. The amount and type of construction materials to be utilized at the Site will depend upon the type of construction and the length of the construction period. The materials may be used continuously, such as fuel for vehicles and equipment, or the materials may be used for a discrete period, such as soil binders for temporary stabilization.

Waste management consist of implementing procedural and structural BMPs for handling, storing and ensuring proper disposal of wastes to prevent the release of those wastes into stormwater discharges.

Materials and waste management pollution control BMPs shall be implemented to minimize stormwater contact with construction materials, wastes and service areas; and to prevent materials and wastes from being discharged off-site. The primary mechanisms for stormwater contact that shall be addressed include:

- Direct contact with precipitation
- Contact with stormwater run-on and runoff
- Wind dispersion of loose materials
- Direct discharge to the storm drain system through spills or dumping
- Extended contact with some materials and wastes, such as asphalt cold mix and treated wood products, which can leach pollutants into stormwater.

A list of construction activities is provided in Section 2.6. The following Materials and Waste Management BMP selection table indicates the BMPs that shall be implemented to handle materials and control construction site wastes associated with these construction activities. Fact Sheets for Materials and Waste Management BMPs are provided in Appendix H.

Table 3.5 Temporary Materials Management BMPs

CASQA Fact Sheet	BMP Name	Meets a Minimum Requirement ⁽¹⁾	BMP used		If not used, state reason
			YES	NO	
WM-01	Material Delivery and Storage	✓	X		
WM-02	Material Use	✓	X		
WM-03	Stockpile Management	✓	X		
WM-04	Spill Preservation and Control	✓	X		
WM-05	Solid Waste Management	✓	X		
WM-06	Hazardous Waste Management	✓	X		
WM-07	Contaminated Soil Management			X	
WM-08	Concrete Waste Management	✓	X		
WM-09	Sanitary-Septic Waste Management	✓	X		
WM-10	Liquid Waste Management		X		
Alternate BMPs Used:				If used, state reason:	
⁽¹⁾ Applicability to a specific project shall be determined by the QSD.					

Material management BMPs shall be implemented in conformance with the following guidelines and in accordance with the BMP Fact Sheets provided in Appendix H. If there is a conflict between documents, the Site Map will prevail over narrative in the body of the SWPPP or guidance in the BMP Fact Sheets. Site specific details in the Site Map prevail over standard details included in the Site Map. The narrative in the body of the SWPPP prevails over guidance in the BMP Fact Sheets.

3.4 POST CONSTRUCTION STORMWATER MANAGEMENT MEASURES

Post construction BMPs are permanent measures installed during construction, designed to reduce or eliminate pollutant discharges from the site after construction is completed.

This site is located in an area subject to a Phase I or Phase II Municipal Separate Storm Sewer System (MS4) permit approved Stormwater Management Plan. Yes No

Post construction runoff reduction requirements have been satisfied through the MS4 program, this project is exempt from provision XIII A of the General Permit.

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

4.1 BMP INSPECTION AND MAINTENANCE

The General Permit requires routine weekly inspections of BMPs, along with inspections before, during, and after qualifying rain events. A BMP inspection checklist must be filled out for inspections and maintained on-site with the SWPPP. The inspection checklist includes the necessary information covered in Section 7.6. A blank inspection checklist can be found in Appendix I. Completed checklists shall be kept in CSMP Attachment 2 “Monitoring Records.

BMPs shall be maintained regularly to ensure proper and effective functionality. If necessary, corrective actions shall be implemented within 72 hours of identified deficiencies and associated amendments to the SWPPP shall be prepared by the QSD.

Specific details for maintenance, inspection, and repair of Construction Site BMPs can be found in the BMP Factsheets in Appendix H.

4.2 RAIN EVENT ACTION PLANS

The Rain Event Action Plans (REAP) is written document designed to be used as a planning tool by the QSP to protect exposed portions of project sites and to ensure that the discharger has adequate materials, staff, and time to implement erosion and sediment control measures. These measures are intended to reduce the amount of sediment and other pollutants that could be generated during the rain event. It is the responsibility of the QSP to be aware of precipitation forecast and to obtain and print copies of forecasted precipitation from NOAA’s National Weather Service Forecast Office.

The SWPPP includes REAP templates but the QSP will need to customize them for each rain event. Site-specific REAP templates for each applicable project phase can be found in Appendix J. The QSP shall maintain a paper copy of completed REAPs in compliance with the record retention requirements Section 1.5 of this SWPPP. Completed REAPs shall be maintained in Appendix J.

The QSP will develop an event specific REAP 48 hours in advance of a precipitation event forecast to have a 50% or greater chance of producing precipitation in the project area. The REAP will be onsite and be implemented 24 hours in advance of any the predicted precipitation event.

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

1. Site Address;
2. Calculated Risk Level 2;
3. Site Stormwater Manager Information including the name, company and 24-hour emergency telephone number;
4. Erosion and Sediment Control Provider information including the name, company and 24-hour emergency telephone number;

5. Stormwater Sampling Agent information including the name, company, and 24-hour emergency telephone number;
6. Activities associated with each construction phase;
7. Trades active on the construction site during each construction phase;
8. Trade contractor information; and
9. Recommended actions for each project phase.

Section 5 Training

Appendix L identifies the QSPs for the project. To promote stormwater management awareness specific for this project, periodic training of job-site personnel shall be included as part of routine project meetings (e.g. daily/weekly tailgate safety meetings), or task specific trainings as needed.

The QSP shall be responsible for providing this information at the meetings, and subsequently completing the training logs shown in Appendix K, which identifies the site-specific stormwater topics covered as well as the names of site personnel who attended the meeting. Tasks may be delegated to trained employees by the QSP provided adequate supervision and oversight is provided. Training shall correspond to the specific task delegated including: SWPPP implementation; BMP inspection and maintenance; and record keeping.

Documentation of training activities (formal and informal) is retained in SWPPP Appendix K.

Section 6 Responsible Parties and Operators

6.1 RESPONSIBLE PARTIES

Approved Signatory who is responsible for SWPPP implementation and has authority to sign permit-related documents [is/are] listed below. Written authorizations from the LRP for these individuals are provided in Appendix L. The Approved Signatory assigned to this project is:

Name	Title	Phone Number

QSPs identified for the project are identified in Appendix L. The QSP shall have primary responsibility and significant authority for the implementation, maintenance and inspection/monitoring of SWPPP requirements. The QSP will be available at all times throughout the duration of the project. Duties of the QSP include but are not limited to:

- Implementing all elements of the General Permit and SWPPP, including but not limited to:
 - Ensuring all BMPs are implemented, inspected, and properly maintained;
 - Performing non-stormwater and stormwater visual observations and inspections;
 - Performing non-stormwater and storm sampling and analysis, as required;
 - Performing routine inspections and observations;
 - Implementing non-stormwater management, and materials and waste management activities such as: monitoring discharges; general Site clean-up; vehicle and equipment cleaning, fueling and maintenance; spill control; ensuring that no materials other than stormwater are discharged in quantities which will have an adverse effect on receiving waters or storm drain systems; etc.;
- The QSP may delegate these inspections and activities to an appropriately trained employee, but shall ensure adequacy and adequate deployment.
- Ensuring elimination of unauthorized discharges.
- The QSPs shall be assigned authority by the LRP to mobilize crews in order to make immediate repairs to the control measures.
- Coordinate with the Contractor(s) to assure all of the necessary corrections/repairs are made immediately and that the project complies with the SWPPP, the General Permit and approved plans at all times.
- Notifying the LRP or Authorized Signatory immediately of off-site discharges or other non-compliance events.

6.2 CONTRACTOR LIST

Contractor

Name: TBD

Title:

Company: TBD

Address:

Phone Number:

Number (24/7):

Section 7 Construction Site Monitoring Program

7.1 Purpose

This Construction Site Monitoring Program was developed to address the following objectives:

1. To demonstrate that the site is in compliance with the Discharge Prohibitions and Numeric Action Levels (NALs) of the Construction General Permit;
2. To determine whether non-visible pollutants are present at the construction site and are causing or contributing to exceedances of water quality objectives;
3. To determine whether immediate corrective actions, additional Best Management Practices (BMP) implementation, or SWPPP revisions are necessary to reduce pollutants in stormwater discharges and authorized non-stormwater discharges;
4. To determine whether BMPs included in the SWPPP and REAP are effective in preventing or reducing pollutants in stormwater discharges and authorized non-stormwater discharges.

7.2 Applicability of Permit Requirements

This project has been determined to be a Risk Level 2 project. The General Permit identifies the following types of monitoring as being applicable for a Risk Level 2 project.

Risk Level 2

- 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 pH and turbidity;
- Sampling and analysis of construction site runoff for non-visible pollutants when applicable; and
- Sampling and analysis of non-stormwater discharges when applicable.

7.3. Weather and Rain Event Tracking

Visual monitoring, inspections, and sampling 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 ½ inch of precipitation. A minimum of 48 hours of dry weather will be used to distinguish between separate qualifying storm events.

7.3.1 Weather Tracking

The QSP should daily consult the National Oceanographic and Atmospheric Administration (NOAA) for the weather forecasts. These forecasts can be obtained at <http://www.srh.noaa.gov/>. Weather reports should be printed and maintained with the SWPPP in CSMP Attachment 1 “Weather Reports”.

7.3.2 Rain Gauges

The QSP shall not install rain gauge(s) on the project site. Rainfall totals will be read using the local government rain gauge or utilize Weatherbug.com.

7.4 Monitoring Locations

Monitoring locations are shown on the Site Maps in Appendix B. Monitoring locations are described in the Sections 7.6 and 7.7.

Whenever changes in the construction site might affect the appropriateness of sampling locations, the sampling locations shall be revised accordingly. All such revisions shall be implemented as soon as feasible and the SWPPP amended. Temporary changes that result in a one-time additional sampling location do not require a SWPPP amendment.

7.5 Safety and Monitoring Exemptions

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: Monday –Friday, 7:00 am to 3:30 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 CSMP Attachment 2 “Monitoring Records”.

7.6 Visual Monitoring

Visual monitoring includes observations and inspections. Inspections of BMPs are required to identify and record BMPs that need maintenance to operate effectively, that have failed, or that could fail to operate as intended. Visual observations of the site are required to observe storm water drainage areas to identify any spills, leaks, or uncontrolled pollutant sources.

Table 7.1 identifies the required frequency of visual observations and inspections. Inspections and observations will be conducted at the locations identified in Section 7.6.3.

Table 7.1 Summary of Visual Monitoring and Inspections

Type of Inspection	Frequency
<i>Routine Inspections</i>	
BMP Inspections	Weekly ¹
BMP Inspections – Tracking Control	Daily
Non-Stormwater Discharge Observations	Quarterly during daylight hours
<i>Rain Event Triggered Inspections</i>	
Site Inspections Prior to a Qualifying Event	Within 48 hours of a qualifying event ²
BMP Inspections During an Extended Storm Event	Every 24-hour period of a rainevent ²
Site Inspections Following a Qualifying Event	Within 48 hours of a qualifying event ²
¹ Most BMPs must be inspected weekly; those identified below must be inspected more frequently.	
² Inspections are only required during scheduled site operating hours. Note however, these inspections are required daily regardless of the amount of precipitation.	

7.6.1 Routine Observations and Inspections

Routine site inspections and visual monitoring are necessary to ensure that the project is in compliance with the requirements of the Construction General Permit.

7.6.1.1 Routine BMP Inspections

Inspections of BMPs are conducted to identify and record:

- BMPs that are properly installed;
- BMPs that need maintenance to operate effectively;
- BMPs that have failed; or
- BMPs that could fail to operate as intended.

7.6.1.2 Non-Stormwater Discharge Observations

Each drainage area will be inspected for the presence of or indications of prior unauthorized and authorized non-stormwater discharges. Inspections will record:

- Presence or evidence of any non-stormwater discharge (authorized or unauthorized);

- Pollutant characteristics (floating and suspended material, sheen, discoloration, turbidity, odor, etc.); and
- Source of discharge.

7.6.2 Rain-Event Triggered Observations and Inspections

Visual observations of the site and inspections of BMPs are required prior to a qualifying rain event; following a qualifying rain event, and every 24-hour period during a qualifying rain event. Pre-rain inspections will be conducted after consulting NOAA and determining that a precipitation event with a 50% or greater probability of precipitation has been predicted.

7.6.2.1 Visual Observations Prior to a Forecasted Qualifying Rain Event

Within 48-hours prior to a qualifying event a stormwater visual monitoring site inspection will include observations of the following locations:

- Stormwater drainage areas to identify any spills, leaks, or uncontrolled pollutant sources;
- BMPs to identify if they have been properly implemented;
- Any stormwater storage and containment areas to detect leaks and ensure maintenance of adequate freeboard.

Consistent with guidance from the State Water Resources Control Board, pre-rain BMP inspections and visual monitoring will be triggered by a NOAA forecast that indicates a probability of precipitation of 50% or more in the project area.

7.6.2.2 BMP Inspections During an Extended Storm Event

During an extended rain event BMP inspections will be conducted to identify and record:

- BMPs that are properly installed;
- BMPs that need maintenance to operate effectively;
- BMPs that have failed; or
- BMPs that could fail to operate as intended.

If the construction site is not accessible during the rain event, the visual inspections shall be performed at all relevant outfalls, discharge points, downstream locations. The inspections should record any projected maintenance activities.

7.6.2.2 Visual Observations Following a Qualifying Rain Event

Within 48 hours following a qualifying rain event (0.5 inches of rain) a stormwater visual monitoring site inspection is required to observe:

- Stormwater drainage areas to identify any spills, leaks, or uncontrolled pollutant sources;
- BMPs to identify if they have been properly designed, implemented, and effective;
- Need for additional BMPs;
- Any stormwater storage and containment areas to detect leaks and ensure maintenance of adequate freeboard; and
- Discharge of stored or contained rain water.

7.6.3 Visual Monitoring Procedures

Visual monitoring shall be conducted by the QSP or staff trained by and under the supervision of the QSP.

The name(s) and contact number(s) of the site visual monitoring personnel are listed below and their training qualifications are provided in Appendix K.

Assigned inspector: John Rubenacker Contact phone: 805 300-4564

Alternate inspector: Kyle Wike Contact phone: 661 755-2473

Stormwater observations shall be documented on the *Visual Inspection Field Log Sheet* (see CSMP Attachment 3 “Example Forms”). BMP inspections shall be documented on the site specific BMP inspection checklist. Any photographs used to document observations will be referenced on stormwater site inspection report and maintained with the Monitoring Records in Attachment 2.

The QSP shall within 2 days of the inspection submit copies of the completed inspection report to site superintendent.

The completed reports will be kept in CSMP Attachment 2 “Monitoring Records”.

7.6.4 Visual Monitoring Follow-Up and Reporting

Correction of deficiencies identified by the observations or inspections, including required repairs or maintenance of BMPs, shall be initiated and completed as soon as possible.

If identified deficiencies require design changes, including additional BMPs, the implementation of changes will be initiated within 72 hours of identification and be completed as soon as possible. When design changes to BMPs are required, the SWPPP shall be amended to reflect the changes.

Deficiencies identified in site inspection reports and correction of deficiencies will be tracked on the *Inspection Field Log Sheet* or *BMP Inspection Report* and shall be submitted to the QSP and shall be kept in CSMP Attachment 2 “Monitoring Records”.

Results of visual monitoring must be summarized and reported in the Annual Report.

7.6.5 Visual Monitoring Locations

The inspections and observations identified in Sections 7.6.1 and 7.6.2 will be conducted at the locations identified in this section.

BMP locations are shown on the Site Maps in SWPPP Appendix A.

There are 2 drainage area on the project site which are shown on the Site Maps in Appendix B and Table 7.2 identifies each drainage area by location.

Table 7.2 Site Drainage Areas

Location No.	Location
1	Southwest side of the lower parking area
2	Drop Inlet at NW side of project

There are no stormwater storage or containment area(s) on the project site.

There is 1 discharge location on the project site. Site stormwater discharge location is shown on the Site Maps in Appendix B and Table 7.4 identifies each stormwater discharge location.

Table 7.4 Site Stormwater Discharge Locations

Location No.	Location
1	Municipal Storm Drain Tie-In at SE side of project @ Campus Road

7.7 Water Quality Sampling and Analysis

7.7.1 Sampling and Analysis Plan for Non-Visible Pollutants in Stormwater Runoff Discharges

This Sampling and Analysis Plan for Non-Visible Pollutants describes the sampling and analysis strategy and schedule for monitoring non-visible pollutants in stormwater runoff discharges from the project site.

Sampling for non-visible pollutants will be conducted when (1) a breach, leakage, malfunction, or spill is observed; and (2) the leak or spill has not been cleaned up prior to the rain event; and (3) there is the potential for discharge of non-visible pollutants to surface waters or drainage system.

The following construction materials, wastes, or activities, as identified in Section 2.6, are potential sources of non-visible pollutants to stormwater discharges from the project. Storage, use, and operational locations are shown on the Site Maps in Appendix B.

- None

7.7.1.1 Sampling Schedule

Samples for the potential non-visible pollutant(s) and a sufficiently large unaffected background sample shall be collected during the first two hours of discharge from rain events that result in a sufficient discharge for sample collection. Samples, if necessary, shall be collected during the

site's scheduled hours and shall be collected regardless of the time of year and phase of the construction.

Collection of discharge samples for non-visible pollutant monitoring will be triggered when any of the following conditions are observed during site inspections conducted prior to or during a rain event.

- Materials or wastes containing potential non-visible pollutants are not stored under watertight conditions. Watertight conditions are defined as (1) storage in a watertight container, (2) storage under a watertight roof or within a building, or (3) protected by temporary cover and containment that prevents stormwater contact and runoff from the storage area.
- Materials or wastes containing potential non-visible pollutants are stored under watertight conditions, but (1) a breach, malfunction, leakage, or spill is observed, (2) the leak or spill is not cleaned up prior to the rain event, and (3) there is the potential for discharge of non-visible pollutants to surface waters or a storm drain system.
- A construction activity, including but not limited to those in Section 2.6, with the potential to contribute non-visible pollutants (1) was occurring during or within 24 hours prior to the rain event, (2) BMPs were observed to be breached, malfunctioning, or improperly implemented, and (3) there is the potential for discharge of non-visible pollutants to surface waters or a storm drain system.
- Soil amendments that have the potential to change the chemical properties, engineering properties, or erosion resistance of the soil have been applied, and there is the potential for discharge of non-visible pollutants to surface waters or a storm drain system.
- Stormwater runoff from an area contaminated by historical usage of the site has been observed to combine with stormwater runoff from the site, and there is the potential for discharge of non-visible pollutants to surface waters or a storm drain system.

7.7.1.2 Sampling Locations

Sampling locations are based upon on proximity to planned non-visible pollutant storage, occurrence or use; accessibility for sampling, and personnel safety. Planned non-visible pollutant sampling locations are shown on the Site Maps in Appendix B and include the locations identified in Table 7.5 through 7.10.

7.7.1.3 Monitoring Preparation

Non-visible pollutant samples will be collected by:

Contractor	<input type="checkbox"/> Yes	<input type="checkbox"/> No
QSP	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Laboratory	<input type="checkbox"/> Yes	<input type="checkbox"/> No

7.7.1.4 Analytical Constituents

Table 7.11 lists the specific sources and types of potential non-visible pollutants on the project site and the water quality indicator constituent(s) for that pollutant.

Activity	Construction Site Material	Visually Observable?	Pollutant Indicators ²	Suggested Analyses Field ³	Laboratory
Landscaping	Aluminum Sulfate	No	Aluminum	TDS Meter Sulfate	EPA 200.8 (Metal)
			TDS		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)			
Portable Toilets	Portable Toilet Waste	Yes	Visually Observable - No Testing Required		

Activity	Construction Site Material	Visually Observable?	Pollutant Indicators ²	Suggested Analyses Field ³	Laboratory
Contaminated Soil ⁵	Aerially Deposited Lead ³	No	Lead	None	EPA 200.8 (Metal)
	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/	Polymer/Copolymer ^{6,7}	No	Organic Nitrogen	None	EPA 351.3 (TKN)

Activity	Construction Site Material	Visually Observable?	Pollutant Indicators ²	Suggested Analyses Field ³	Laboratory
Stabilization Products			BOD	None	EPA 405.1 (BOD)
			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)
			Total Chromium		

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

7.7.1.5 Sample Collection

Samples of discharge shall be collected at the designated non-visible pollutant sampling locations shown on the Site Maps in Appendix B or in the locations determined by observed breaches, malfunctions, leakages, spills, operational areas, soil amendment application areas, and historical site usage areas that triggered the sampling event.

Grab samples shall be collected and preserved in accordance with the methods identified in the Table, "Sample Collection, Preservation and Analysis for Monitoring Non-Visible Pollutants" provided in Section 7.7.1.6. Only the QSP, or personnel trained in water quality sampling under the direction of the QSP shall collect samples.

Sample collection and handling requirements are described in Section 7.7.7.

7.7.1.6 Sample Analysis

Samples shall be analyzed using the analytical methods identified in the Table 7.12.

Samples will be analyzed by:

Laboratory Name: Fruit Growers Laboratory
Street Address: 853 Corporation Street
City, State Zip: Santa Paula, CA 93060
Telephone Number: 661 392-2000
Point of Contact:
ELAP Certification Number: 01110CA

Samples will be delivered to the laboratory by:

Driven by Contractor	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
Picked up by Laboratory Courier	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
Shipped	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No

7.7.1.7 Data Evaluation and Reporting

The QSP shall complete an evaluation of the water quality sample analytical results.

Runoff/down gradient results shall be compared with the associated up gradient/unaffected results and any associated run-on results. Should the runoff/down gradient sample show an increased level of the tested analyte relative to the unaffected background sample, which cannot be explained by run-on results, the BMPs, site conditions, and surrounding influences shall be assessed to determine the probable cause for the increase.

As determined by the site and data evaluation, appropriate BMPs shall be repaired or modified to mitigate discharges of non-visible pollutant concentrations. Any revisions to the BMPs shall be recorded as an amendment to the SWPPP.

The General Permit prohibits the storm water discharges that contain hazardous substances equal to or in excess of reportable quantities established in 40 C.F.R. §§ 117.3 and 302.4. The results of any non-stormwater discharge results that indicate the presence of a hazardous substance in excess of established reportable quantities shall be immediately reported to the Regional Water Board and other agencies as required by 40 C.F.R. §§ 117.3 and 302.4.

Results of non-visible pollutant monitoring shall be reported in the Annual Report.

7.7.2 *Sampling and Analysis Plan for pH and Turbidity in Stormwater Runoff Discharges*

Sampling and analysis of runoff for pH and turbidity is required for this project. This Sampling and Analysis Plan describes the strategy for monitoring turbidity and pH levels of stormwater runoff discharges from the project site and run-on that may contribute to an exceedance of a Numeric Action Level (NAL).

Samples for turbidity will be collected from all drainage areas with disturbed soil areas and samples for pH will be collected from all drainage areas with a high risk of pH discharge.

7.7.2.1 *Sampling Schedule*

Stormwater runoff samples shall be collected for turbidity from all qualifying rain events that result in a discharge from the project site. At minimum, turbidity samples will be collected from each site discharge location draining a disturbed area. A minimum of three samples will be collected per day of discharge during a qualifying event. Samples should be representative of the total discharge from the project each day of discharge during the qualifying event. Typically representative samples will be spaced in time throughout the daily discharge event.

Stormwater runoff samples shall be collected for pH from all qualifying rain events that result in a discharge from the project site. At minimum, pH samples will be collected from each site discharge location during project phases and drainage areas with a high risk of pH discharge. A minimum of three samples will be collected per day of discharge during a qualifying event. Samples should be representative of the total discharge from the location each day of discharge during the qualifying event. Typically representative samples will be spaced in time throughout the daily discharge event.

Stored or collected water from a qualifying storm event when discharged shall be tested for turbidity and pH (when applicable). Stored or collected water from a qualifying event may be sampled at the point it is released from the storage or containment area or at the site discharge location.

Run-on samples shall be collected whenever the QSP identifies that run-on has the potential to contribute to an exceedance of a NAL.

7.7.2.2 *Sampling Locations*

Sampling locations are based on the site runoff discharge locations and locations where run-on enters the site; accessibility for sampling; and personnel safety. Planned pH and turbidity sampling locations are shown on the Site Maps in Appendix B and include the locations identified in Table 7.13 and Table 7-14.

TWO sampling location(s) on the project site and the contractor’s yard have been identified for the collection of runoff samples. Table 7.13 also provides an estimate of the site’s area that drains to each location.

Table 7.13 Turbidity and pH Runoff Sample Locations

Sample Location Number	Sample Location	Estimate of Site Drainage (%)
1	SW corner of Project	90
2	Drop Inlet @ NW corner of Project	10

No run-on from off-site sources is anticipated given the existing topographic conditions or the recommended diversionary BMP’s, as a result, no run-on sampling is anticipated.

The project does not receive run-on with the potential to exceed NALs or NELs.

7.7.2.3 Monitoring Preparation

Turbidity and pH samples will be collected and analyzed by:

- Contractor Yes No
- QSP Yes No
- Laboratory Yes No

Samples on the project site will be collected by the following contractor sampling personnel:

Name/Telephone Number: John Rubenacker 805.300.4564

Alternate(s)/Telephone Number: Kyle Wike 661755.2473

An adequate stock of monitoring supplies and equipment for monitoring turbidity and will be available on the project site prior to a sampling event. Monitoring supplies and equipment will be stored in a cool temperature environment that will not come into contact with rain or direct sunlight. Sampling personnel will be available to collect samples in accordance with the sampling schedule. Supplies maintained at the project site will include, but are not limited to, field meters, extra batteries; clean powder-free nitrile gloves, sample collection equipment, appropriate sample containers, paper towels, personal rain gear, and *Effluent Sampling Field Log Sheets* and CoC forms provided in CSMP Attachment 3 “Example Forms”.

The QSP will obtain and maintain the field testing instruments, as identified in Section 7.7.2.6, for analyzing samples in the field by QSP sampling personnel.

7.7.2.4 Field Parameters

Samples shall be analyzed for the constituents indicated in the table below “Sample Collection, and Analysis for Monitoring Turbidity and pH.”

Table 7.15 Sample Collection and Analysis for Monitoring Turbidity and pH

Parameter	Test Method	Minimum Sample Volume ⁽¹⁾	Sample Collection Container Type	Detection Limit (minimum)
Turbidity	Field meter/probe with calibrated portable instrument	500 mL	Polypropylene or Glass (Do not collect in meter sample cells)	1 NTU
pH	Field meter/probe with calibrated portable instrument or calibrated pH test kit	100 mL	Polypropylene	0.2 pH units

Notes: ¹ Minimum sample volume recommended. Specific volume requirements will vary by instrument; check instrument manufacturer instructions.
 L – Liter
 mL – Milliliter
 NTU – Nephelometric Turbidity Unit

7.7.2.5 Sample Collection

Samples of discharge shall be collected at the designated runoff and run-on sampling locations shown on the Site Maps in Appendix B. Run-on samples shall be collected within close proximity of the point of run-on to the project.

Only personnel trained in water quality sampling and field measurements working under the direction of the QSP shall collect samples.

Sample collection and handling requirements are described in Section 7.7.7.

7.7.2.6 Field Measurements

Samples collected for field analysis, collection, analysis and equipment calibration shall be in accordance with the field instrument manufacturer’s specifications.

Immediately following collection, samples for field analysis shall be tested in accordance with the field instrument manufacturer’s instructions and results recorded on the *Effluent Sampling Field Log Sheet*.

The field instrument(s) listed in Table 7.16 will be used to analyze the following constituents:

Table 7.16 Field Instruments

Field Instrument (Manufacturer and Model)	Constituent
Hanna HI98107	pH
Hanna 98703	Turbidity

The manufacturers’ instructions are included in CSMP Attachment 4 “Field Meter Instructions”. Field sampling staff shall review the instructions prior to each sampling event and follow the instructions in completing measurement of the samples.

- The instrument(s) shall be maintained in accordance with manufacturer’s instructions.
- The instrument(s) shall be calibrated before each sampling and analysis event.
- Maintenance and calibration records shall be maintained with the SWPPP.

The QSP may authorize alternate equipment provided that the equipment meets the Construction General Permit’s requirements and the manufacturers’ instructions for calibration and use are added to CSMP Attachment 4 “Field Meter Instructions”.

7.7.2.7 Data Evaluation and Reporting

Numeric Action Levels

This project is subject to NALs for pH and turbidity (Table 7.17). Compliance with the NAL for pH and turbidity is based on a daily average. Upon receiving the field log sheets, the QSP shall immediately calculate the arithmetic average of the pH and turbidity samples to determine if the NALs, shown in the table below, have been exceeded.

Table 7.17 Numeric Action Levels

Parameter	Unit	Daily Average
pH	pH units	Lower NAL = 6.5 Upper NAL = 8.5
Turbidity	NTU	250 NTU

In the event that the pH or turbidity NAL is exceeded, the QSP shall immediately notify the LRP and investigate the cause of the exceedance and identify corrective actions.

Exceedances of NALs shall be electronically reported to the State Water Board by LRP through the SMARTs system within 10 days of the conclusion of the storm event. If requested by the Regional Board, a NAL Exceedance report will be submitted. The NAL Exceedance Report must contain the following information:

- Analytical method(s), method reporting unit(s), and MDL(s) of each parameter;
- Date, place, time of sampling, visual observation, and/or measurements, including precipitation; and
- Description of the current BMPs associated with the sample that exceeded the NAL and the proposed corrective actions taken.

7.7.3 Additional Monitoring Following an NEL Exceedance

This project is not subject to NELs.

7.7.4 Sampling and Analysis Plan for Non-Stormwater Discharges

This Sampling and Analysis Plan for non-stormwater discharges describes the sampling and analysis strategy and schedule for monitoring pollutants in authorized and unauthorized

non-stormwater discharges from the project site in accordance with the requirements of the Construction General Permit.

Sampling of non-stormwater discharges will be conducted when an authorized or unauthorized non-stormwater discharge is observed discharging from the project site. In the event that non-stormwater discharges run-on to the project site from offsite locations, and this run-on has the potential to contribute to a violation of a NAL, the run-on will also be sampled.

7.7.4.1 Sampling Schedule

Samples of authorized or unauthorized non-stormwater discharges shall be collected when they are observed.

7.7.4.2 Sampling Locations

Samples shall be collected from the discharge point of the construction site where the non-stormwater discharge is running off the project site. Site discharge locations are shown on the Site Maps in SWPPP Appendix A and include the locations identified below.

TWO sampling location(s) on the project site and the contractor’s yard have been identified where non-stormwater discharges may runoff from the project site.

Sample Location Number	Sample Location	Sample Location Latitude and Longitude (Decimal Degrees)
1	SW side of project	34.297373 -118.837602
2	Drop inlet at NW side of project	34.298980 -118.877786

7.7.4.3 Monitoring Preparation

Non-stormwater discharge samples will be collected by:

- Contractor Yes No
- QSP Yes No
- Laboratory Yes No

Samples on the project site will be collected by the following contractor sampling personnel:

Name/Telephone Number: John Rubenacker 805.300.4564

Alternate(s)/Telephone Number: Kyle Wike 661.755.2473

An adequate stock of monitoring supplies and equipment for monitoring non-stormwater discharges will be available on the project site. Monitoring supplies and equipment will be stored in a cool temperature environment that will not come into contact with rain or direct sunlight. Personnel trained in sampling will be available to collect samples in accordance with the sampling schedule. Supplies maintained at the project site will include, but are not limited to, clean powder-free nitrile gloves, sample collection equipment, field meters, coolers, appropriate number and volume of sample bottles, identification labels, re-sealable storage bags, paper towels, personal rain gear, ice, and *Effluent Sampling Field Log Sheets* and CoC forms provided in CSMP Attachment 3 “Example Forms”.

7.7.4.4 Analytical Constituents

All non-stormwater discharges that flow through a disturbed area shall, at minimum, be monitored for turbidity.

All non-stormwater discharges that flow through an area where they are exposed to pH altering materials shall be monitored for pH.

The QSP shall identify additional pollutants to be monitored for each non-stormwater discharge incident based on the source of the non-stormwater discharge. If the source of an unauthorized non-stormwater discharge is not known, monitoring for pH, turbidity, MBAS, TOC, and residual chlorine or chloramines is recommended to help identify the source of the discharge.

Non-stormwater discharge run-on shall be monitored, at minimum, for pH and turbidity. The QSP shall identify additional pollutants to be monitored for each non-stormwater discharge incident based on the source of the non-stormwater discharge. If the source of an unauthorized non-stormwater discharge is not known, monitoring for pH, turbidity, MBAS, TOC, and residual chlorine or chloramines is recommended to help identify the source of the discharge.

Table 7.21 lists the specific sources and types of potential non-visible pollutants on the project site and the water quality indicator constituent(s) for that pollutant. .

Table 7.21 Potential Non-Stormwater Discharge Pollutants and Water Quality Indicator Constituents

General Work Activity/ Products With Potential Stormwater Pollutants	Specific Work Activity/Products With Potential Stormwater Pollutants	Pollutant Categories
Adhesives	<ul style="list-style-type: none"> • Adhesives, glues, resins, epoxy synthetics, PVC cement • Caulks, sealers, putty, sealing agents and • Coal tars (naphtha, pitch) 	Oil and Grease, Synthetic Organics ¹
Asphalt paving/curbs	<ul style="list-style-type: none"> • Hot and cold mix asphalt 	Oil and Grease
Cleaners	<ul style="list-style-type: none"> • Polishes (metal, ceramic, tile) • Etching agents • Cleaners, ammonia, lye, caustic sodas, bleaching agents and chromate salts 	Metals, Synthetic Organics
Concrete / Masonry	<ul style="list-style-type: none"> • Cement and brick dust • Colored chalks • Concrete curing compounds • Glazing compounds • Surfaces cleaners • Saw cut slurries • Tile cutting 	Metals, Synthetic Organics
Drywall	<ul style="list-style-type: none"> • Saw-cutting drywall 	Metals
Framing/Carpentry	<ul style="list-style-type: none"> • Sawdust, particle board dust, and treated woods • Saw cut slurries 	Metals, Synthetic Organics
Heating, Ventilation, Air Conditioning	<ul style="list-style-type: none"> • Demolition or construction of air condition and heating systems 	Metals, Synthetic Organics
Insulation	<ul style="list-style-type: none"> • Demolition or construction involving insulation, venting systems 	Metals, Synthetic Organics
Liquid waste	<ul style="list-style-type: none"> • Wash waters • Irrigation line testing/flushing 	Metals, Synthetic Organics
Painting	<ul style="list-style-type: none"> • Paint thinners, acetone, methyl ethyl ketone, stripper paints, lacquers, varnish, enamels, turpentine, gum spirit, solvents, dyes, stripping pigments and sanding 	Metals, Synthetic Organics
Planting / Vegetation Management	<ul style="list-style-type: none"> • Vegetation control (pesticides/herbicides) • Planting • Plant maintenance • Vegetation removal 	Nutrients, Metals, Synthetic Organics

General Work Activity/ Products With Potential Stormwater Pollutants	Specific Work Activity/Products With Potential Stormwater Pollutants	Pollutant Categories
Plumbing	<ul style="list-style-type: none"> • Solder (lead, tin), flux (zinc chloride), pipe fitting • Galvanized metal in nails, fences, and electric wiring 	Metals, Synthetic Organics
Pools/fountains	<ul style="list-style-type: none"> • Chlorinated water 	Synthetic Organics
Removal of existing structures	<ul style="list-style-type: none"> • Demolition of asphalt, concrete, masonry, framing, roofing, metal structures. 	Metals, Oil and Grease, Synthetic Organics
Roofing	<ul style="list-style-type: none"> • Flashing • Saw cut slurries (tile cutting) • Shingle scrap and debris 	Metals, Oil and Grease, Synthetic Organics
Sanitary waste	<ul style="list-style-type: none"> • Portable toilets • Disturbance of existing sewer lines. 	Nutrients
Soil preparation/amendments	<ul style="list-style-type: none"> • Use of soil additives/amendments 	Nutrients
Solid waste	<ul style="list-style-type: none"> • Litter, trash and debris • Vegetation 	Gross Pollutants
Utility line testing and flushing	<ul style="list-style-type: none"> • Hydrostatic test water • Pipe flushing 	Synthetic Organics
Vehicle and equipment use	<ul style="list-style-type: none"> • Equipment operation • Equipment maintenance • Equipment washing • Equipment fueling 	Oil and Grease
<p>¹ Synthetic Organics are defined in Table 1.2 of the CASQA <i>Stormwater BMP Handbook Portal: Construction</i> as adhesives, cleaners, sealants, solvents, etc. These are generally categorized as VOCs or SVOCs.</p>		

7.7.4.5 Sample Collection

Samples shall be collected at the discharge locations where the non-stormwater discharge is leaving the project site. Potential discharge locations are shown on the Site Maps in Appendix B and identified in Section 7.7.4.2.

Grab samples shall be collected and preserved in accordance with the methods identified in Table 7.22. Only personnel trained in water quality sampling under the direction of the QSP shall collect samples.

Sample collection and handling requirements are described in Section 7.7.7.

7.7.4.6 Sample Analysis

Samples shall be analyzed using the analytical methods identified in Table 7.22.

7.7.4.7 Data Evaluation and Reporting

The QSP shall complete an evaluation of the water quality sample analytical results.

Turbidity and pH results shall be evaluated for compliance with NALs as identified in Section 7.7.2.7.

Runoff results shall also be evaluated for the constituents suspected in the non-stormwater discharge. Should the runoff sample indicate the discharge of a pollutant which cannot be explained by run-on results, the BMPs, site conditions, and surrounding influences shall be assessed to determine the probable cause for the increase.

As determined by the site and data evaluation, appropriate BMPs shall be repaired or modified to mitigate discharges of non-visible pollutant concentrations. Any revisions to the BMPs shall be recorded as an amendment to the SWPPP.

Non-storm water discharge results shall be submitted with the Annual Report.

The General Permit prohibits the non-storm water discharges that contain hazardous substances equal to or in excess of reportable quantities established in 40 C.F.R. §§ 117.3 and 302.4. The results of any non-stormwater discharge results that indicate the presence of a hazardous substance in excess of established reportable quantities shall be immediately reported to the Regional Water Board.

Table 7.22 Sample Collection, Preservation and Analysis for Monitoring Pollutants in Non-Stormwater Discharges

Constituent	Analytical Method	Minimum Sample Volume	Sample Bottle	Sample Preservation	Reporting Limit	Maximum Holding Time
Notes:						

7.7.5 Sampling and Analysis Plan for Other Pollutants Required by the Regional Water Board

The Regional Water Board has not specified monitoring for additional pollutants.

7.7.6 Training of Sampling Personnel

Sampling personnel shall be trained to collect, maintain, and ship samples in accordance with the Surface Water Ambient Monitoring program (SWAMP) 2008 Quality Assurance Program Plan (QAPrP). Training records of designated contractor sampling personnel are provided in Appendix K.

7.7.7 Sample Collection and Handling

7.7.7.1 Sample Collection

Samples shall be collected at the designated sampling locations shown on the Site Maps and listed in the preceding sections. Samples shall be collected, maintained and shipped in accordance with the SWAMP 2008 Quality Assurance Program Plan (QAPrP).

Grab samples shall be collected and preserved in accordance with the methods identified in preceding sections.

To maintain sample integrity and prevent cross-contamination, sample collection personnel shall follow the protocols below.

- Collect samples (for laboratory analysis) only in analytical laboratory-provided sample containers;
- Wear clean, powder-free nitrile gloves when collecting samples;
- Change gloves whenever something not known to be clean has been touched;
- Change gloves between sites;
- Decontaminate all equipment (e.g. bucket, tubing) prior to sample collection using a trisodium phosphate water wash, distilled water rinse, and final rinse with distilled water. (Dispose of wash and rinse water appropriately, i.e., do not discharge to storm drain or receiving water). Do not decontaminate laboratory provided sample containers;
- Do not smoke during sampling events;
- Never sample near a running vehicle;
- Do not park vehicles in the immediate sample collection area (even non-running vehicles);
- Do not eat or drink during sample collection; and
- Do not breathe, sneeze, or cough in the direction of an open sample container.

The most important aspect of grab sampling is to collect a sample that represents the entire runoff stream. Typically, samples are collected by dipping the collection container in the runoff flow paths and streams as noted below.

- i. For small streams and flow paths, simply dip the bottle facing upstream until full.

- ii. For larger stream that can be safely accessed, collect a sample in the middle of the flow stream by directly dipping the mouth of the bottle. Once again making sure that the opening of the bottle is facing upstream as to avoid any contamination by the sampler.
- iii. For larger streams that cannot be safely waded, pole-samplers may be needed to safely access the representative flow.
- iv. Avoid collecting samples from ponded, sluggish or stagnant water.
- v. Avoid collecting samples directly downstream from a bridge as the samples can be affected by the bridge structure or runoff from the road surface.

Note, that depending upon the specific analytical test, some containers may contain preservatives. These containers should **never** be dipped into the stream, but filled indirectly from the collection container.

7.7.7.2 Sample Handling

Turbidity and pH measurements must be conducted immediately. Do not store turbidity or pH samples for later measurement.

Samples for laboratory analysis must be handled as follows. Immediately following sample collection:

- Cap sample containers;
- Complete sample container labels;
- Sealed containers in a re-sealable storage bag;
- Place sample containers into an ice-chilled cooler;
- Document sample information on the *Effluent Sampling Field Log Sheet*; and
- Complete the CoC.

All samples for laboratory analysis must be maintained between 0-6 degrees Celsius during delivery to the laboratory. Samples must be kept on ice, or refrigerated, from sample collection through delivery to the laboratory. Place samples to be shipped inside coolers with ice. Make sure the sample bottles are well packaged to prevent breakage and secure cooler lids with packaging tape.

Ship samples that will be laboratory analyzed to the analytical laboratory right away. Hold times are measured from the time the sample is collected to the time the sample is analyzed. The General Permit requires that samples be received by the analytical laboratory within 48 hours of the physical sampling (unless required sooner by the analytical laboratory).

Laboratory Name: Fruit Growers Laboratory

Address: 853 Corporation Street

City, State Zip: Santa Paula, CA 93060

Telephone Number: 661 392-2000

Point of Contact:

7.7.7.3 Sample Documentation Procedures

All original data documented on sample bottle identification labels, *Effluent Sampling Field Log Sheet*, and CoCs shall be recorded using waterproof ink. These shall be considered accountable

documents. If an error is made on an accountable document, the individual shall make corrections by lining through the error and entering the correct information. The erroneous information shall not be obliterated. All corrections shall be initialed and dated.

Duplicate samples shall be identified consistent with the numbering system for other samples to prevent the laboratory from identifying duplicate samples. Duplicate samples shall be identified in the Effluent Sampling Field Log Sheet.

Sample documentation procedures include the following:

Sample Bottle Identification Labels: Sampling personnel shall attach an identification label to each sample bottle. Sample identification shall uniquely identify each sample location.

Field Log Sheets: Sampling personnel shall complete the *Effluent Sampling Field Log Sheet* and *Receiving Water Sampling Field Log Sheet* for each sampling event, as appropriate.

Chain of Custody: Sampling personnel shall complete the CoC for each sampling event for which samples are collected for laboratory analysis. The sampler will sign the CoC when the sample(s) is turned over to the testing laboratory or courier.

7.8 Active Treatment System Monitoring

An Active Treatment System (ATS) will be deployed on the site?

Yes No

This project does not require a project specific Sampling and Analysis Plan for an ATS because deployment of an ATS is not planned.

7.9 Bioassessment Monitoring

This project is not subject to bioassessment monitoring because it is not a Risk Level 3 project.

7.10 Watershed Monitoring Option

This project is not participating in a watershed monitoring option.

7.11 Quality Assurance and Quality Control

An effective Quality Assurance and Quality Control (QA/QC) plan shall be implemented as part of the CSMP 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; and
- Data verification.

Each of these procedures is discussed in more detail in the following sections.

7.11.1 Field Logs

The purpose of field logs is to record sampling information and field observations during monitoring that may explain any uncharacteristic analytical results. Sampling information to be

included in the field log include the date and time of water quality sample collection, sampling personnel, sample container identification numbers, and types of samples that were collected. Field observations should be noted in the field log for any abnormalities at the sampling location (color, odor, BMPs, etc.). Field measurements for pH and turbidity should also be recorded in the field log. A Visual Inspection Field Log, an Effluent Sampling Field Log Sheet, are included in CSMP Attachment 3 “Example Forms”.

7.11.2 Clean Sampling Techniques

Clean sampling techniques involve the use of certified clean containers for sample collection and clean powder-free nitrile gloves during sample collection and handling. As discussed in Section 7.7.7, adoption of a clean sampling approach will minimize the chance of field contamination and questionable data results.

7.11.3 Chain of Custody

The sample CoC is an important documentation step that tracks samples from collection through analysis to ensure the validity of the sample. Sample CoC procedures include the following:

- Proper labeling of samples;
- Use of CoC forms for all samples; and
- Prompt sample delivery to the analytical laboratory.

Analytical laboratories usually provide CoC forms to be filled out for sample containers. An example CoC is included in CSMP Attachment 3 “Example Forms”.

7.11.4 QA/QC Samples

QA/QC samples provide an indication of the accuracy and precision of the sample collection; sample handling; field measurements; and analytical laboratory methods. The following types of QA/QC will be conducted for this project:

Field Blanks at a frequency dictated by the sampling method.
(Only required if sampling method calls for field blanks)

Travel Blanks at a frequency as dictated by the sampling method. Actual method and frequency will be determined by the QSP in the field based on the pollutant of concern.
(Required for sampling plans that include VOC laboratory analysis)

7.11.4.1 Field Duplicates

Field duplicates provide verification of laboratory or field analysis and sample collection. Duplicate samples shall be collected, handled, and analyzed using the same protocols as primary samples. The sample location where field duplicates are collected shall be randomly selected from the discharge locations. Duplicate samples shall be collected immediately after the primary sample has been collected. Duplicate samples must be collected in the same manner and as close in time as possible to the original sample. Duplicate samples shall not influence any evaluations or conclusion.

7.11.4.2 Equipment Blanks

Equipment blanks provide verification that equipment has not introduced a pollutant into the sample. Equipment blanks are typically collected when:

- New equipment is used;
- Equipment that has been cleaned after use at a contaminated site;
- Equipment that is not dedicated for surface water sampling is used; or
- Whenever a new lot of filters is used when sampling metals.

7.11.4.3 Field Blanks

Field blanks assess potential sample contamination levels that occur during field sampling activities. De-ionized water field blanks are taken to the field, transferred to the appropriate container, and treated the same as the corresponding sample type during the course of a sampling event.

7.11.4.4 Travel Blanks

Travel blanks assess the potential for cross-contamination of volatile constituents between sample containers during shipment from the field to the laboratory. De-ionized water blanks are taken along for the trip and held unopened in the same cooler with the VOC samples.

7.11.5 Data Verification

After results are received from the analytical laboratory, the QSP shall verify the data to ensure that it is complete, accurate, and the appropriate QA/QC requirements were met. Data must be verified as soon as the data reports are received. Data verification shall include:

- Check the CoC and laboratory reports.
Make sure all requested analyses were performed and all samples are accounted for in the reports.
- Check laboratory reports to make sure hold times were met and that the reporting levels meet or are lower than the reporting levels agreed to in the contract.
- Check data for outlier values and follow up with the laboratory.
Occasionally typographical errors, unit reporting errors, or incomplete results are reported and should be easily detected. These errors need to be identified, clarified, and corrected quickly by the laboratory. The QSP should especially note data that is an order of magnitude or more different than similar locations, or is inconsistent with previous data from the same location.
- Check laboratory QA/QC results.
EPA establishes QA/QC checks and acceptable criteria for laboratory analyses. These data are typically reported along with the sample results. The QSP shall evaluate the reported QA/QC data to check for contamination (method, field, and equipment blanks), precision (laboratory matrix spike duplicates), and accuracy (matrix spikes and laboratory control samples). When QA/QC checks are outside acceptable ranges, the laboratory must flag the data, and usually provides an explanation of the potential impact to the sample results.
- Check the data set for outlier values and, accordingly, confirm results and re-analyze samples where appropriate.

Sample re-analysis should only be undertaken when it appears that some part of the QA/QC resulted in a value out of the accepted range. Sample results may not be discounted unless the analytical laboratory identifies the required QA/QC criteria were not met and confirms this in writing.

Field data including inspections and observations must be verified as soon as the field logs are received, typically at the end of the sampling event. Field data verification shall include:

- Check field logs to make sure all required measurements were completed and appropriately documented;
- Check reported values that appear out of the typical range or inconsistent; Follow-up immediately to identify potential reporting or equipment problems, if appropriate, recalibrate equipment after sampling;
- Verify equipment calibrations;
- Review observations noted on the field logs; and
- Review notations of any errors and actions taken to correct the equipment or recording errors.

7.12 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 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/or measurements, including precipitation;
- The individual(s) who performed the inspections, sampling, visual observation, and/or field measurements;
- The date and approximate time of field measurements and laboratory analyses;
- The individual(s) who performed the laboratory analyses;
- A summary of all analytical results, the method 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; and NAL Exceedance Reports.

CSMP Attachment 1: Weather Reports

CSMP Attachment 2: Monitoring Records

CSMP Attachment 3: Example Forms

**Risk Level 2
Visual Inspection Field Log Sheet**

Date and Time of Inspection: _____ Report Date: _____

Inspection Type:	<input type="checkbox"/> Weekly	<input type="checkbox"/> Before predicted rain	<input type="checkbox"/> During rain event	<input type="checkbox"/> Following qualifying rain event	<input type="checkbox"/> Contained stormwater release	<input type="checkbox"/> Quarterly non-stormwater
------------------	---------------------------------	--	--	--	---	---

Site Information

Construction Site Name: Moorpark College Parking Structure

Construction stage and completed activities: _____ Approximate area of exposed site: _____

Weather and Observations

Date Rain Predicted to Occur: _____ Predicted % chance of rain: _____

Estimate storm beginning: _____	Estimate storm duration: _____	Estimate time since last storm: _____	Rain gauge reading: _____
(date and time)	(hours)	(days or hours)	(inches)

Observations: If yes identify location

Odors	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Floating material	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Suspended Material	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Sheen	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Discolorations	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Turbidity	Yes <input type="checkbox"/>	No <input type="checkbox"/>

Site Inspections

Outfalls or BMPs Evaluated	Deficiencies Noted
-----------------------------------	---------------------------

(add additional sheets or attached detailed BMP Inspection Checklists)

--	--

Photos Taken:	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Photo Reference IDs:
---------------	------------------------------	-----------------------------	----------------------

Corrective Actions Identified (note if SWPPP/REAP change is needed)

--

Inspector Information

Inspector Name: _____ Inspector Title: _____

Signature: _____ Date: _____

**Risk Level 2
Effluent Sampling Field Log Sheets**

Construction Site Name: Moorpark College Parking Structure	Date:	Time Start:
---	-------	-------------

Sampler:

Sampling Event Type:	<input type="checkbox"/> Stormwater	<input type="checkbox"/> Non-stormwater	<input type="checkbox"/> Non-visible pollutant
----------------------	-------------------------------------	---	--

Field Meter Calibration

pH Meter ID No./Desc.: Calibration Date/Time:	Turbidity Meter ID No./Desc.: Calibration Date/Time:
--	---

Field pH and Turbidity Measurements

Discharge Location Description	pH	Turbidity	Time

Grab Samples Collected

Discharge Location Description	Sample Type	Time

Additional Sampling Notes:

Time End:

Rain Gauge Log Sheet

Construction Site Name: **Moorpark College Parking Structure**

WDID #:

Date (mm/dd/yy)	Time (24-hr)	Initials	Rainfall Depth (Inches)	Notes:

CSMP Attachment 4: Field Meter Instructions

Sample Collection

Samples shall be collected at the designated sampling locations shown on the Site Maps and listed in the preceding sections. Samples shall be collected, maintained and shipped in accordance with the SWAMP 2008 Quality Assurance Program Plan (QAPrP).

Grab samples shall be collected and preserved in accordance with the methods identified in preceding sections.

To maintain sample integrity and prevent cross-contamination, sample collection personnel shall follow the protocols below.

- Collect samples (for laboratory analysis) only in analytical laboratory-provided sample containers;
- Wear clean, powder-free nitrile gloves when collecting samples;
- Change gloves whenever something not known to be clean has been touched;
- Change gloves between sites;
- Decontaminate all equipment (e.g. bucket, tubing) prior to sample collection using a trisodium phosphate water wash, distilled water rinse, and final rinse with distilled water. (Dispose of wash and rinse water appropriately, i.e., do not discharge to storm drain or receiving water). Do not decontaminate laboratory provided sample containers;
- Do not smoke during sampling events;
- Never sample near a running vehicle;
- Do not park vehicles in the immediate sample collection area (even non-running vehicles);
- Do not eat or drink during sample collection; and
- Do not breathe, sneeze, or cough in the direction of an open sample container.

The most important aspect of grab sampling is to collect a sample that represents the entire runoff stream. Typically, samples are collected by dipping the collection container in the runoff flow paths and streams as noted below.

- vi. For small streams and flow paths, simply dip the bottle facing upstream until full.
- vii. For larger stream that can be safely accessed, collect a sample in the middle of the flow stream by directly dipping the mouth of the bottle. Once again making sure that the opening of the bottle is facing upstream as to avoid any contamination by the sampler.
- viii. For larger streams that cannot be safely waded, pole-samplers may be needed to safely access the representative flow.
- ix. Avoid collecting samples from ponded, sluggish or stagnant water.
- x. Avoid collecting samples directly downstream from a bridge as the samples can be affected by the bridge structure or runoff from the road surface.

Note, that depending upon the specific analytical test, some containers may contain preservatives. These containers should **never** be dipped into the stream, but filled indirectly from the collection container.

Sample Handling

Turbidity and pH measurements must be conducted immediately. Do not store turbidity or pH samples for later measurement.

Samples for laboratory analysis must be handled as follows. Immediately following sample collection:

- Cap sample containers;
- Complete sample container labels;
- Sealed containers in a re-sealable storage bag;
- Place sample containers into an ice-chilled cooler;
- Document sample information on the *Effluent Sampling Field Log Sheet*; and
- Complete the CoC.

All samples for laboratory analysis must be maintained between 0-6 degrees Celsius during delivery to the laboratory. Samples must be kept on ice, or refrigerated, from sample collection through delivery to the laboratory. Place samples to be shipped inside coolers with ice. Make sure the sample bottles are well packaged to prevent breakage and secure cooler lids with packaging tape.

Ship samples that will be laboratory analyzed to the analytical laboratory right away. Hold times are measured from the time the sample is collected to the time the sample is analyzed. The General Permit requires that samples be received by the analytical laboratory within 48 hours of the physical sampling (unless required sooner by the analytical laboratory).

Laboratory Name: Fruit Growers Laboratory

Address: 853 Corporation

City, State Zip: Santa Paula, CA 93060

Telephone Number: 661 392.2000

Point of Contact:

Sample Documentation Procedures

All original data documented on sample bottle identification labels, *Effluent Sampling Field Log Sheet*, and CoCs shall be recorded using waterproof ink. These shall be considered accountable documents. If an error is made on an accountable document, the individual shall make corrections by lining through the error and entering the correct information. The erroneous information shall not be obliterated. All corrections shall be initialed and dated.

Duplicate samples shall be identified consistent with the numbering system for other samples to prevent the laboratory from identifying duplicate samples. Duplicate samples shall be identified in the *Effluent Sampling Field Log Sheet*.

Sample documentation procedures include the following:

Sample Bottle Identification Labels: Sampling personnel shall attach an identification label to each sample bottle. Sample identification shall uniquely identify each sample location.

Field Log Sheets: Sampling personnel shall complete the *Effluent Sampling Field Log Sheet* and *Receiving Water Sampling Field Log Sheet* for each sampling event, as appropriate.

Chain of Custody: Sampling personnel shall complete the CoC for each sampling event for which samples are collected for laboratory analysis. The sampler will sign the CoC when the sample(s) is turned over to the testing laboratory or courier.

CSMP Attachment 5: Supplemental Information

Section 8 References

Project Plans and Specifications No. WWII-04, prepared by Newman Design Group, Inc.

State Water Resources Control Board (2009). Order 2009-0009-DWQ, NPDES General Permit No. CAS000002: National Pollutant Discharges Elimination System (NPDES) California General Permit for Storm Water Discharge Associated with Construction and Land Disturbing Activities. Available on-line at:

http://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml.

State Water Resources Control Board (2010). Order 2010-0014-DWQ, NPDES General Permit No. CAS000002: National Pollutant Discharges Elimination System (NPDES) California General Permit for Storm Water Discharge Associated with Construction and Land Disturbing Activities. Available on-line at:

http://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml.

CASQA 2009, *Stormwater BMP Handbook Portal: Construction*, November 2009,

www.casqa.org

Project Plans as approved by County of Ventura/City of Moorpark.

Appendix A: Calculations

RUSLE Factor	Value	Method for establishing value
R	109.46	EPA Rainfall Erosivity Factor Calculator
K	0.37	Site Specific Analysis utilizing the USDA Web Soil Survey
LS	1.46	Site Specific Analysis utilizing a weighted average of the surface topography
Total Predicted Sediment Loss (tons/acre)		
Overall Sediment Risk Low Sediment Risk < 15 tons/ acre Medium Sediment Risk >= 15 and < 75 tons/acre High Sediment Risk >= 75 tons/acre		<input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High

Receiving Water Name	303(d) Listed for Sediment Related Pollutant⁽¹⁾	TMDL for Sediment Related Pollutant⁽¹⁾	Beneficial Uses of COLD, SPAWN, and MIGRATORY⁽¹⁾
Arroyo Simi/ Calleguas Creek	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Overall Receiving Water Risk			<input type="checkbox"/> Low <input checked="" type="checkbox"/> High
(1) If yes is selected for any option the Receiving Water Risk is High			

Computation Sheet for Determining Runoff Coefficients

$$\text{Total Site Area} = \underline{\quad 3.4 \text{ ac} \quad} \quad (\text{A})$$

Existing Site Conditions

$$\text{Impervious Site Area}^1 = \underline{\quad 0.17 \text{ ac} \quad} \quad (\text{B})$$

$$\text{Impervious Site Area Runoff Coefficient}^2 = \underline{\quad .9 \quad} \quad (\text{C})$$

$$\text{Pervious Site Area} = \underline{\quad 3.23 \text{ Ac} \quad} \quad (\text{D})$$

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

$$\text{Existing Site Area Runoff Coefficient} \quad \frac{(\text{B} \times \text{C}) + (\text{D} \times \text{E})}{(\text{A})} = \underline{\quad 0.43 \text{ cfs} \quad} \quad (\text{F})$$

PROPOSED SITE CONDITIONS (AFTER CONSTRUCTION)

$$\text{Impervious Site Area}^1 = \underline{\quad 3.16 \text{ Ac} \quad} \quad (\text{G})$$

$$\text{Impervious Site Area Runoff Coefficient}^2 = \underline{\quad .9 \quad} \quad (\text{H})$$

$$\text{Pervious Site Area} = \underline{\quad 0.24 \text{ Ac} \quad} \quad (\text{I})$$

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

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

0.87 cfs

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.

COMPUTATIONAL SHEET FOR DETERMINING RUN-ON DISCHARGES

EXISTING SITE CONDITIONS

Area Runoff Coefficient	=	<u>0.43</u>	(A)
Area Rainfall Intensity	=	<u>2.0 in/hr</u>	(B)
Drainage Area	=	<u>3.4 ac</u>	(C)
Site Area Run-on Discharge	(A) x (B) x (C) =	<u>2.92 ft³/sec</u>	(D)

Appendix B: Site Maps

Appendix C: Permit Registration Documents

Permit Registration Documents included in this Appendix

Y/N	Permit Registration Document
N	Notice of Intent
Y	Risk Assessment
Y	Certification
N	Post Construction Water Balance
N	Copy of Annual Fee Receipt
N	ATS Design Documents
Y	Site Map, see Appendix B

Appendix D: SWPPP Amendment Certifications

SWPPP Amendment No.

Project Name:

Project Number:

**Qualified SWPPP Developer’s Certification of the
Stormwater Pollution Prevention Plan Amendment**

“This Stormwater Pollution Prevention Plan and attachments were prepared under my direction to meet the requirements of the California Construction General Permit (SWRCB Order No. 2009-009-DWQ as amended by 2010-0014-DWQ). I certify that I am a Qualified SWPPP Developer in good standing as of the date signed below.”

QSD’s Signature

Date

QSD Name

QSD Certificate Number

Title and Affiliation

Telephone

Address

Email

Appendix E: Submitted Changes to PRDs

Log of Updated PRDs

The General Permit allows for the reduction or increase of 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 purchased by a different entity; or when new acreage is added to the project.

Modified PRDs shall be filed electronically within 30 days of a reduction or increase in total disturbed area if a change in permit covered acreage is to be sought. The SWPPP shall be modified appropriately, with revisions and amendments recorded in Appendix C. Updated PRDs submitted electronically via SMARTS can be found in this Appendix.

This appendix includes all of the following updated PRDs (check all that apply):

- Revised Notice of Intent (NOI);

- Revised Site Map;

- Revised Risk Assessment;

- New landowner's information (name, address, phone number, email address); and

- New signed certification statement.

Legally Responsible Person [if organization]

Signature of [Authorized Representative of] Legally Responsible Person or Approved Signatory

Date

Name of [Authorized Representative of] Legally Responsible Person or Approved Signatory

Telephone Number

Appendix F: Construction Schedule

***Appendix G: Construction Activities, Materials Used,
and Associated Pollutants***

Table G.a POLLUTANTS ASSOCIATED WITH CONSTRUCTION ACTIVITIES

General Work Activity/ Products With Potential Stormwater Pollutants	Specific Work Activity/Products With Potential Stormwater Pollutants	Pollutant Categories
Adhesives	<ul style="list-style-type: none"> • Adhesives, glues, resins, epoxy synthetics, PVC cement • Caulks, sealers, putty, sealing agents and • Coal tars (naphtha, pitch) 	Oil and Grease, Synthetic Organics ¹
Asphalt paving/curbs	<ul style="list-style-type: none"> • Hot and cold mix asphalt 	Oil and Grease
Cleaners	<ul style="list-style-type: none"> • Polishes (metal, ceramic, tile) • Etching agents • Cleaners, ammonia, lye, caustic sodas, bleaching agents and chromate salts 	Metals, Synthetic Organics
Concrete / Masonry	<ul style="list-style-type: none"> • Cement and brick dust • Colored chalks • Concrete curing compounds • Glazing compounds • Surfaces cleaners • Saw cut slurries • Tile cutting 	Metals, Synthetic Organics
Drywall	<ul style="list-style-type: none"> • Saw-cutting drywall 	Metals
Framing/Carpentry	<ul style="list-style-type: none"> • Sawdust, particle board dust, and treated woods • Saw cut slurries 	Metals, Synthetic Organics
Heating, Ventilation, Air Conditioning	<ul style="list-style-type: none"> • Demolition or construction of air condition and heating systems 	Metals, Synthetic Organics
Insulation	<ul style="list-style-type: none"> • Demolition or construction involving insulation, venting systems 	Metals, Synthetic Organics
Liquid waste	<ul style="list-style-type: none"> • Wash waters • Irrigation line testing/flushing 	Metals, Synthetic Organics
Painting	<ul style="list-style-type: none"> • Paint thinners, acetone, methyl ethyl ketone, stripper paints, lacquers, varnish, enamels, turpentine, gum spirit, solvents, dyes, stripping pigments and sanding 	Metals, Synthetic Organics
Planting / Vegetation Management	<ul style="list-style-type: none"> • Vegetation control (pesticides/herbicides) • Planting • Plant maintenance • Vegetation removal 	Nutrients, Metals, Synthetic Organics
Plumbing	<ul style="list-style-type: none"> • Solder (lead, tin), flux (zinc chloride), pipe fitting • Galvanized metal in nails, fences, and electric wiring 	Metals, Synthetic Organics
Pools/fountains	<ul style="list-style-type: none"> • Chlorinated water 	Synthetic Organics
Removal of existing structures	<ul style="list-style-type: none"> • Demolition of asphalt, concrete, masonry, framing, roofing, metal structures. 	Metals, Oil and Grease, Synthetic Organics
Roofing	<ul style="list-style-type: none"> • Flashing • Saw cut slurries (tile cutting) • Shingle scrap and debris 	Metals, Oil and Grease, Synthetic Organics

Table G.a POLLUTANTS ASSOCIATED WITH CONSTRUCTION ACTIVITIES

General Work Activity/ Products With Potential Stormwater Pollutants	Specific Work Activity/Products With Potential Stormwater Pollutants	Pollutant Categories
Sanitary waste	<ul style="list-style-type: none"> • Portable toilets • Disturbance of existing sewer lines. 	Nutrients
Soil preparation/amendments	<ul style="list-style-type: none"> • Use of soil additives/amendments 	Nutrients
Solid waste	<ul style="list-style-type: none"> • Litter, trash and debris • Vegetation 	Gross Pollutants
Utility line testing and flushing	<ul style="list-style-type: none"> • Hydrostatic test water • Pipe flushing 	Synthetic Organics
Vehicle and equipment use	<ul style="list-style-type: none"> • Equipment operation • Equipment maintenance • Equipment washing • Equipment fueling 	Oil and Grease
<p>¹ Synthetic Organics are defined in Table 1.2 of the CASQA <i>Stormwater BMP Handbook Portal: Construction</i> as adhesives, cleaners, sealants, solvents, etc. These are generally categorized as VOCs or SVOCs.</p>		

***Appendix H: CASQA Stormwater BMP Handbook
Portal: Construction Fact Sheets***

Appendix I: BMP Inspection Form

Moorpark College Parking Structure
WDID#
Risk Level 2
Visual Inspection Record

Date and Time of Inspection: _____ Report Date: _____

Inspection Type:	<input type="checkbox"/> Weekly	<input type="checkbox"/> Before predicted rain	<input type="checkbox"/> During rain event	<input type="checkbox"/> Following qualifying rain event	<input type="checkbox"/> Contained stormwater release	<input type="checkbox"/> Quarterly non-stormwater
------------------	---------------------------------	--	--	--	---	---

Site Information

Construction Site Name: **Moorpark College Parking Structure**

Construction stage and completed activities:	Approximate area of exposed site: 3.4 acres
--	--

Weather

Pre-Storm Inspection Only:

Date Rain Predicted to Occur:	Predicted % chance of rain:
-------------------------------	-----------------------------

Time since last storm: _____			
# of days			

Post Storm Inspection Only:

Estimate storm duration: _____ # of days		Rain gauge reading: _____	# of inches
---	--	------------------------------	-------------

Observations

Odors	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Sheen	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Floating material	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Discolorations	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Suspended Material	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Turbidity	Yes <input type="checkbox"/>	No <input type="checkbox"/>

BMP Inspections-See page 2 for detailed BMP inspection notes

Photos Taken:	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Photo Reference IDs:
---------------	------------------------------	-----------------------------	----------------------

Inspector Notes:

Inspector Information

Inspector Name: John Rubenacker	Inspector Title: QSP
---	--------------------------------

Signature:	Date:
------------	-------

BMP	Yes	No	Corrective Actions	Comp in 72 hours?
Construction Materials				
Are stockpiles covered and bermed when not in use?				
Are chemicals stored in watertight containers with appropriate secondary containment or enclosed?				
Is off-site tracking of loose construction & landscaping materials controlled?				
Has the disposal of wash or rinse water been prevented?				
Are sanitary facilities in secondary containment and located appropriately?				
Are waste containers covered at the end of every day and during a rain event? Are waste containers leakfree?				
Is stockpiled waste material contained and secured?				
Are concrete washout areas contained, located and maintained appropriately?				
Vehicles & Equipment				
Is all equipment stored in appropriate location, away from drainage courses?				
Are drip pans under all equipment when not in use?				
Are leaks and spills cleaned up immediately?				
Landscape Materials				
Are stockpiled materials such as mulch and topsoil bermed and covered when not in use?				
Are fertilizers and other materials covered and bermed when not in use?				
Have you discontinued application of any erodible landscape material within 2 days of a forecasted rain event or during a rain event?				
Are erodible landscape materials stacked on pallets and covered, or storing materials when not in use?				

Erosion Control			
Is effective wind erosion control in place per plan?			
Is erosion control installed per plan?			
Are inactive areas properly stabilized if not in use for 14 days?			
Is the use of plastic being minimized when possible?			
Run-Off/Run-On			
Are run-off and/or run-on BMPs installed per plan and effective?			
Are run-off and/or run-on BMPs maintained?			
Sediment Control			
Are perimeter controls installed per plan? Are they effective and maintained?			
Are construction entrances and exits stabilized to prevent tracking?			
If a sediment basin is used on site, is it designed using SE-2 at a minimum.			
Are appropriate erosion control and sediment control BMPs implemented for areas under active construction?			
Are linear sediment controls along slope face installed per Risk Level 2 requirements?			
Is construction traffic limited to stabilized entrances and exits only?			
Are all storm drain inlets and perimeter controls, runoff controls, and pollutant controls at entrances and exits maintained?			
Are all access roads inspected daily and all sediment or other construction materials removed properly?			
Other			

Appendix J: Project Specific Rain Event Action Plan Template

Rain Event Action Plan (REAP)

Date:		WDID Number:	
Date Rain Predicted to Occur:		Predicted % chance of rain:	
Site Information: Moorpark College Parking Structure			
Site Name, City, and Zip Code:			
Site Stormwater Manager Information: John Rubenacker 805.300.4564			
Name Company, Emergency Phone Number (24/7)			
Erosion and Sediment Control Contractor- Labor Force contracted for the site:			
Name Company, Emergency Phone Number (24/7)			
Stormwater Sampling Agent: John Rubenacker 805.300.4564			
Name Company, Emergency Phone Number (24/7)			
Current Phase of Construction <i>Check ALL boxes below that apply to your site.</i>			
<input type="checkbox"/> Grading and Land development	<input type="checkbox"/> Vertical Construction	<input type="checkbox"/> Inactive Site	
<input type="checkbox"/> Streets and Utilities	<input type="checkbox"/> Final Landscaping and Site Stabilization	<input type="checkbox"/> Other:	
Activities Associated with Current Phase(s) <i>Check ALL boxes below that apply to your site (some apply to all phases).</i>			
<u>Grading and Land Development:</u>			
<input type="checkbox"/> Demolition	<input type="checkbox"/> Vegetation Removal	<input type="checkbox"/> Vegetation Salvage-Harvest	
<input type="checkbox"/> Rough Grade	<input type="checkbox"/> Finish Grade	<input type="checkbox"/> Blasting	
<input type="checkbox"/> Soil Amendment(s)	<input type="checkbox"/> Excavation (_____ft)	<input type="checkbox"/> Soils Testing	
<input type="checkbox"/> Rock Crushing	<input type="checkbox"/> Erosion and Sediment Control	<input type="checkbox"/> Surveying	
<input type="checkbox"/> Equip. Maintenance/Fueling	<input type="checkbox"/> Material Delivery and Storage	<input type="checkbox"/> Other:	
<u>Streets and Utilities:</u>			
<input type="checkbox"/> Finish Grade	<input type="checkbox"/> Utility Install: water-sewer-gas	<input type="checkbox"/> Paving Operations	
<input type="checkbox"/> Equip. Maintenance/Fueling	<input type="checkbox"/> Storm Drain Installation	<input type="checkbox"/> Material Delivery and Storage	
<input type="checkbox"/> Curb and Gutter/ Concrete Pour	<input type="checkbox"/> Masonry	<input type="checkbox"/> Other:	
<u>Vertical Construction:</u>			
<input type="checkbox"/> Framing	<input type="checkbox"/> Carpentry	<input type="checkbox"/> Concrete/Forms/Foundation	
<input type="checkbox"/> Masonry	<input type="checkbox"/> Electrical	<input type="checkbox"/> Painting	
<input type="checkbox"/> Drywall/Interior Walls	<input type="checkbox"/> Plumbing	<input type="checkbox"/> Stucco	
<input type="checkbox"/> Equip. Maintenance/Fueling	<input type="checkbox"/> HVAC	<input type="checkbox"/> Tile	
<input type="checkbox"/> Exterior Siding	<input type="checkbox"/> Insulation	<input type="checkbox"/> Landscaping and Irrigation	
<input type="checkbox"/> Flooring	<input type="checkbox"/> Roofing	<input type="checkbox"/> Other:	
<u>Final Landscaping & Site Stabilization:</u>			
<input type="checkbox"/> Stabilization	<input type="checkbox"/> Vegetation Establishment	<input type="checkbox"/> E&S Control BMP Removal	
<input type="checkbox"/> Finish Grade	<input type="checkbox"/> Storage Yard/ Material Removal	<input type="checkbox"/> Landscape Installation	
<input type="checkbox"/> Painting and Touch-Up	<input type="checkbox"/> Irrigation System Testing	<input type="checkbox"/> Other:	
<input type="checkbox"/> Drainage Inlet Stencils	<input type="checkbox"/> Inlet Filtration	<input type="checkbox"/> Perm. Water Quality Ponds	
<input type="checkbox"/> Other:	<input type="checkbox"/> Other:	<input type="checkbox"/> Other:	
<u>Inactive Construction Sites:</u>			
<input type="checkbox"/> E&S Control Device Installation	<input type="checkbox"/> Routine Site Inspection	<input type="checkbox"/> Trash Removal	
<input type="checkbox"/> E&S Control Device Maintenance	<input type="checkbox"/> Street Sweeping	<input type="checkbox"/> Other:	

Rain Event Action Plan

Date:

**WDID
Number:**

Trades Active on Site during current Phase(s)
Check ALL the boxes below that apply to your site

- | | | |
|--|---|--|
| <input type="checkbox"/> STORM Drain Improvement | <input type="checkbox"/> Grading Contractor | <input type="checkbox"/> Surveyor- Soil Technician |
| <input type="checkbox"/> Street Improvements | <input type="checkbox"/> Water Pipe Installation | <input type="checkbox"/> Sanitary Station Provider |
| <input type="checkbox"/> Material Delivery | <input type="checkbox"/> Sewer Pipe Installation | <input type="checkbox"/> Electrical |
| <input type="checkbox"/> Trenching | <input type="checkbox"/> Gas Pipe Installation | <input type="checkbox"/> Carpentry |
| <input type="checkbox"/> Concrete Pouring | <input type="checkbox"/> Electrical Installation | <input type="checkbox"/> Plumbing |
| <input type="checkbox"/> Foundation | <input type="checkbox"/> Communication Installation | <input type="checkbox"/> Masonry |
| <input type="checkbox"/> Demolition | <input type="checkbox"/> Erosion and Sediment Control | <input type="checkbox"/> Water, Sewer, Electric Utilities |
| <input type="checkbox"/> Material Delivery | <input type="checkbox"/> Equip. Fueling/Maintenance | <input type="checkbox"/> Rock Products |
| <input type="checkbox"/> Tile Work- Flooring | <input type="checkbox"/> Utilities, e.g., Sewer, Electric | <input type="checkbox"/> Painters |
| <input type="checkbox"/> Drywall | <input type="checkbox"/> Roofers | <input type="checkbox"/> Carpenters |
| <input type="checkbox"/> HVAC Installers | <input type="checkbox"/> Stucco | <input type="checkbox"/> Pest Control e.g., Termite Prevention |
| <input type="checkbox"/> Exterior Siding | <input type="checkbox"/> Masons | <input type="checkbox"/> Water Feature Installation |
| <input type="checkbox"/> Insulation | <input type="checkbox"/> Landscapers | <input type="checkbox"/> Utility Line Testers |
| <input type="checkbox"/> Fireproofing | <input type="checkbox"/> Riggers | <input type="checkbox"/> Irrigation System Installation |
| <input type="checkbox"/> Steel Systems | <input type="checkbox"/> Utility line Testers | <input type="checkbox"/> Other: |

Trade Contractor Information Provided
Check ALL the boxes below that apply to your site

- | | | |
|---|--|--|
| <input type="checkbox"/> Educational Material Handout | <input type="checkbox"/> Tailgate Meetings | <input type="checkbox"/> Training Workshop |
| <input type="checkbox"/> Contractual Language | <input type="checkbox"/> Fines and Penalties | <input type="checkbox"/> Signage |
| <input type="checkbox"/> Other: | <input type="checkbox"/> Other: | <input type="checkbox"/> Other: |

Continued on next page.

Rain Event Action Plan (REAP)

Date of REAP:		WDID Number:	
Date Rain Predicted to Occur:		Predicted % chance of Rain:	
Predicted Rain Event Triggered Actions			
<p>Below is a list of suggested actions and items to review for this project. Each active Trade should check all material storage areas, stockpiles, waster management areas, vehicle and equipment storage and maintenance, areas of active soil disturbance, and areas of active work to ensure the proper implementation of BMPs. Project-wide BMPs should be checked and cross-referenced to the BMP progress map.</p>			
Trade or Activity	Suggested action(s) to perform/ Item(s) to review prior to rain event		
<input type="checkbox"/> Information & Scheduling	<input type="checkbox"/> Inform Trade supervisors of predicted rain <input type="checkbox"/> Check scheduled activities and reschedule as needed <input type="checkbox"/> Alert Erosion/ Sediment Control Provider <input type="checkbox"/> Alert sample collection contractor (if applicable) <input type="checkbox"/> Schedule staff for extended rain inspections (including weekends and holidays) <input type="checkbox"/> Check Erosion/ Sediment control (ESC) material stock <input type="checkbox"/> Review BMP progress map <input type="checkbox"/> Other: _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____		
<input type="checkbox"/> Material Storage Areas	<input type="checkbox"/> Material under cover or in sheds (ex: treated woods and metals) <input type="checkbox"/> Perimeter control around stockpiles <input type="checkbox"/> Other: _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____		
<input type="checkbox"/> Waste Management Areas	<input type="checkbox"/> Dumpsters Closed <input type="checkbox"/> Drain Holes Plugged <input type="checkbox"/> Recycling Bins Closed <input type="checkbox"/> Sanitary Stations Bermed and protected from tipping <input type="checkbox"/> Other: _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____		
<input type="checkbox"/> Trade Operations	 		

Appendix K: Training Reporting Form

Trained Contractor Personnel Log

Stormwater Management Training Log and Documentation

Project Name: Moorpark College Parking Structure
 WDID #: _____

Stormwater 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-Stormwater Management | <input type="checkbox"/> Waste Management and Materials Pollution Control |
| <input type="checkbox"/> Stormwater Sampling | |

Specific Training Objective: _____

Location: _____ Date: _____

Instructor: _____ Telephone: _____

Course Length (hours): _____

Attendee Roster (Attach additional forms if necessary)

Name	Company	Phone

As needed, add proof of external training (e.g., course completion certificates, credentials for QSP, QSD).

Appendix L: Responsible Parties

Title and Contact Information	Area of Responsibility
<p>Legally Responsible Person:</p> <p>Handel Evans 255 West Stanley Avenue # 105 Ventura, Ca 93001 805.986.5821</p>	<p>Property Owner and Permittee under the General Permit</p>
<p>Authorized Signatory for the LRP:</p> <p>Tristan Santos Penfield & Smith 1327 Del Norte Road, Ste 200 Camarillo, Ca 93010 805.981.0706 ext 108</p>	<p>Authorized to sign (and certify) on behalf of the LRP: the Notice of Intent, Notice of Termination, Changes to the Permit Registration Documents, SWPPP Certification, Annual Reports, Non-Compliance reports, and any other information requested by the RWQCB, SWRCB, or EPA under the General Permit.</p>
<p>Qualified SWPPP Developer Data Submitter</p> <p>Jeanne Duarte, QSD, QSP, ToR, CPESC Storm Water Resources 25030 Avenue Tibbitts Ste K Valencia, CA 91355 661-295-3013 office 661-510-3428 cell</p>	<p>Draft the SWPPP and any SWPPP amendments and certify compliance of the SWPPP with the General Permit.</p>
<p>Data Submitter</p> <p>John Rubenacker Storm Water Resources 25030 Avenue Tibbitts Ste K Valencia, Ca 91355 661.295.3013 office 805.300.4564 cell</p>	<p>Implement the SWPPP on a daily basis at the Project, oversee the training of contractors and other personnel undertaking SWPPP-related duties, monitor and direct contractors with SWPPP responsibilities (including those installing or maintaining BMPs), oversee the inspection and monitoring programs, perform inspections or delegate others to do so (see other delegated inspectors below), prepare reports required by the SWPPP for review and certification by the LRP's representative.</p>
<p>Qualified SWPPP Practitioner</p> <p>TBD</p>	<p>Implement the SWPPP on a daily basis at the project. Monitor and inspect site and direct contractors with SWPPP responsibilities.</p>
<p>Contractor/Subcontractor</p> <p>TBD</p>	<p>Install, maintain, and replace erosion and sediment controls.</p>

Appendix M: Contractors and Subcontractors

Appendix N: Construction General Permit
