



COUNTY OF SACRAMENTO

Public Works Agency

Department of Transportation

STORM WATER POLLUTION PREVENTION PROGRAM

SAILOR BAR/ CUTTERS PIT SATELLITE STORAGE YARD

**SACRAMENTO COUNTY DEPARTMENT OF TRANSPORTATION
MATERIALS YARD AND WATER RESOURCES EMERGENCY SAND BAG
DISTRIBUTION SITE**



November 7, 2013



Table of Contents

1.1 Purpose	3
1.2 Background	4
1.3 Materials Storage	4
1.4 Site Description	4
1.5 Drainage and Site Description.....	5
2 STORM WATER POLLUTION PREVENTION PROGRAM	5
2.1 Potential Pollutant Source Identification and Best Management Practices	5
2.2 Department of Transportation Storage and Stockpile Areas.	6
2.3 General Storm Water Management Site Practices.	6
2.4 Department of Transportation Roles and Responsibilities.	7
2.5 Elimination of Unpermitted Non-Storm water Discharges	7
2.6 Site Compliance Evaluation	7
2.7 Storm water Pollution Prevention Personnel	7
3 STORMWATER MONITORING AND SITE INSPECTION	8
3.1 Non-Storm water Discharge Visual Inspections	8
3.1.1 Inspection Criteria and Checklist	8
3.1.2 Observation Frequency	8
3.1.3 Observation Points	9
3.2 Storm water Discharge Visual Inspections	9
3.2.1 Observation Criteria and Checklist	9
3.2.2 Observation Frequency	10
3.2.3 Observation Points	10
4 Facility Map	11
5 Inspection Checklists	12-13



1.0 INTRODUCTION

1.1 Purpose

The purpose and intent of this plan is to reduce to the maximum extent practical or eliminate pollutants discharged into the waters of Sacramento County into the American River basin from a Department of Transportation satellite storage facility located at the southern end of Illinois Avenue in Fair Oaks, Ca. This plan, created and monitored by the Sacramento County Department of Transportation is in the best interests of the community. Putting these measures in place will protect one of these community's vital resources.

The primary objective of the Storm Water Pollution Prevention Program at the SacDOT facility known as "Cutters Pit" will be to:

- Identify potential pollutant sources.
- Implement best management practices, which will reduce or eliminate pollutant discharges into the waters of the American River within the County of Sacramento.
- Monitor the effectiveness of practices put in place by specific observations and measurements of sediments.

The program will remain flexible and will be altered as such factors as new products, changing regulations, facility operation changes or other factors that may effect the site are introduced.

This Storm Water Pollution Prevention Program specific to the Cutters Pit location will incorporate best management practices to include:

- Restrictions on use of facility.
- Assessment of materials stored
- Limitation of quantities stored.
- Spill prevention, response, and minimization.
- Employee training
- Facility configuration to minimize off site movement
- Elimination of unpermitted non-storm water discharges

1.2 Background

The site known as Cutters Pit is located within Sailor Bar County Park. Cutters Pit was formerly an aggregate plant, and is now owned by the Department of Parks, Recreation and Open Space. The Department of Transportation has had an informal agreement with the Parks Department for the use of a portion of park property for over forty years. The Department of Transportation has also given permission to Water Resources Division's Channel Maintenance Section to use the facility as a staging area for quarry rock, sand, sandbags, and other flood fighting materials and equipment. Cutter's Pit has historically offered the Department of Transportation and Water Resources a cost savings to our customers by providing a materials storage site north of the American River. The facility has and will continue to play a vital role in our emergency operations response by providing an easily accessible twenty-four hour a day location for stockpiling flood fighting and road repair materials.

1.3 Materials Storage

The Sacramento County Department of Transportation utilizes the facility to store aggregate materials such as sand, aggregate road base materials, recycled asphalt materials, various sizes of rip-rap quarry rock, and temporary storage of dirt from road base repair, wood from downed trees, and other non-hazardous materials removed from the roadway system.

There is a locked fenced area approximately 1600 square feet in the northern section of the facility used to secure equipment on a temporary basis.

1.4 Site Description

The Department of Transportation's "Cutters Pit" is located at the south terminus of Illinois Avenue, south of Winding Way within Sailor Bar Park. The storage site is immediately to the east upon entering park property (See Map page 11). The site is bounded on its eastern edge and running to the south by an earthen berm approximately four feet high running parallel to the paved park road leading to the American River. An approximately twenty-foot high earth wall bounds the north side of the facility, which is a remnant of previous mining activities. The east side of the facility is bounded by an earthen berm approximately eighteen inches high behind which is a drainage ditch. In the northwest interior area there is a concrete bunker for storage of asphalt. On the east side of the site is the entrance to the facility, which is paved with asphalt and has a berm approximately six inches in height is at the gate. The entrance is gated and locked when not actively in use.

The site is well above the one hundred year flood level and has historically never been inundated by the American River. The site is located on old dredger tailings and water percolates through the gravel base easily. The Cutters Pit satellite storage facility is approximately two acres in area.

1.5 Drainage and Site Description

The site drains in sheet flows generally to the south and east. There is an interior drainage ditch beginning at the south side of the gate and runs south east approximately seven hundred feet until exiting the site into an abandoned dredger pit. This ditch diverts water from the hillside from sheeting across the facility. On the south side there is an approximately eighteen inch high earthen berm, which begins approximately one hundred and fifty feet southeast of the main entrance and runs to the southeast until merging with a similar height berm running north to south. This berm delineates the park service road from the storage site and confines drainage within the storage site. On the east side there is an earthen berm which begins at this union and extends approximately three hundred feet to the north following the contour or the drainage ditch outside the facility. On the northeast side of the facility through-drainage from uphill watershed enters the site. This drainage runs down the twenty foot high north side slope of the site, which is gravel is diverted to the east of the site, and meanders around the site though the gravel to the head of the defined ditch which flows south and east eventually crossing the park service road and meandering into an abandoned dredger pit where the flow dissipates. (See map page 11)

2. STORM WATER POLLUTION PREVENTION PROGRAM

2.1 Potential Pollutant Source Identification and Best Management Practices

The Cutters Pit Auxiliary storage yard has potential storm water pollution sources, which may impact storm water discharges. The potential pollutant sources identified are:

- Sediment from exposed soil, uncovered stockpiles of rock, sand, ground asphalt, broken concrete, and other soil materials commonly related to construction activities.
- Petroleum hydrocarbons from parked equipment, vehicle field refueling and maintenance activities.
- Other wastes and/or debris, which may be found in roadside ditches such as but not, limited to; rusty metals, paper products, decaying vegetative matter, plastics, and chemicals.

The entire site has been contained by permanent earthen or asphalt berms to stop or severely reduce the flow of storm water off site. Incoming flows have been diverted to the outside perimeter off the site. Storm water falling within the site is filtered by means of a three hundred foot grassy swale to slow and filter storm water flowing from the site.

The haul routes within the site are stabilized gravel and road base materials to minimize tracking. The entrance gate is closed and locked by a lock when not in use. The entrance to the site is posted for use of authorized personnel only, thus making it possible to legally stop, question, and expel or arrest unauthorized users of the site.

Keeping the haul routes within Cutters Pit compacted and stabilized will control tracking of materials off site. The park road leading to the site is paved and there are no drainage facilities other than open roadside ditches consisting of gravel and weeds. There are no drainage facilities

within two tenths of mile from Cutters Pit entrance on the park road. The river is approximately two tenths of a mile from the sites entrance/exit thus any incidental tracking from Cutters Pit will be filtered and captured and stabilized by vegetation.

County crews, supervision, and engineering staff have been and are continuing to be trained in the sources of and the methods of reducing storm water pollution from maintenance and construction activities. The area is no longer available to County contractors without care and consideration to storm water protection. County crews are restricted as to the sites use of and the materials, which may be stored at Cutters Pit.

2.2 Department of Transportation Storage and Stockpile Areas.

The Sacramento County Department of Transportation utilizes the entire Cutters Pit site in total collaboration with the Sacramento County Water Resources Channel Maintenance Section. During emergency response operations, mutual support activities, or in order to increase the efficiency and effectiveness of maintenance activities, utilization and replenishment of materials and equipment are shared and monitored by both departments. However, each department has control and responsibilities within this understood mutual support agreement.

The Department of Transportation utilizes, and has primary control of, the greatest portion of the Cutters Pit storage site. The northwest portion of the site after entering is primarily controlled and maintained by the Department of Transportation. This portion of the site is storage for aggregate base road rock mix; there is also a concrete bunker for storage and containment of asphalt. On the north east end of the facility is a K-rail bunker for the temporary storage and consolidation of debris generated by SacDOT street sweeping activities. Centrally located is stockpiled ground asphalt. On the south and central portion of the site are stockpiles of crushed rock and spoils from dig outs of pavement and roadside ditches.

The Department of Transportation also utilizes the location occasionally to temporarily park equipment within a locked enclosed area. The eastern side near the site designated for quarry rock. General storm water BMPs will be observed as applies to parking vehicles at remote locations.

2.3 General Storm Water Management Site Practices.

General storm water management practices in place are to restrict the use of the fenced facility to authorized County Department of Transportation crews only. Also by reducing the quantity of materials stockpiled, removing some materials before the rainy season, restricting the type of materials stored, and enforcing general best management practices for equipment parking and refueling of equipment potential pollutants will be reduced to the maximum extent practical.

2.4 Department of Transportation Roles and Responsibilities.

The Department of Transportation will take lead responsibility in monitoring and maintaining the Cutters Pit satellite storage yard. The Department of Transportation will seek cooperation and assistance with Sacramento County Water Resources, and the Sacramento County Parks and Open Spaces, in all aspects of maintaining and monitoring the site.

- The Department of Transportation will on a weekly basis inspect the area for possible stormwater contaminate sources.
- The Department of Transportation will ensure the haul routes within the site are kept well compacted, stabilized and grade or level the area as needed.
- During or immediately after a rainstorm the Department of Transportation will inspect the storage facility at the Cutters Pit site for possible stormwater pollution.
- This plan will be reviewed annually, upon discovery of possible sources of storm water pollution, or upon knowledge of applicable laws and regulations or their interpretation.
- The Department of Transportation will continually train personnel in stormwater protection. Department of Transportation Best Management Practices for Stormwater Protection will be enforced. See general Department of Transportation Stormwater Best Management Practices.

2.5 Elimination of Unpermitted Non-Stormwater Discharges

There are no unpermitted non-stormwater discharges at the Cutters Pit site by the Department of Transportation. By policy and practice no discharge is allowed with the exception of surface watering to control dust when the activity in the area warrants such measures. However, upon discovery of an accidental spill of possible stormwater contaminates within or upon the common area or driveway the Department of Parks will be notified as to the violation. The Department of Transportation will mitigate any such spills in such a manner, as they do not contaminate the American River Basin.

2.6 Site Compliance Evaluation

The Department of Transportation with assistance from County of Sacramento Water Resources will perform an annual in-depth site evaluation.

2.7 Stormwater Pollution Prevention Personnel

The Department of Transportation controlled portion of the Cutters Pit site persons responsible for site management are:

Department of Transportation	Brian Shine	875-7007
Department of Transportation	Jeff Welchman	875-5125

3. STORMWATER MONITORING AND SITE INSPECTION

The stormwater monitoring and site inspection plan will consist of:

- Storm water visual inspections
- Measuring siltation at critical locations
- Non-storm water discharge visual inspections
- Ensuring site security

3.1 Non-Stormwater Discharge Visual Inspections

3.1.1 Inspection Criteria and Checklist

Inspection of the site will be done each time the Highway Maintenance supervisory staff visit the site. The inspection will be assigned to the maintenance supervisor to assure consistency and to gain an intimate knowledge of changes taking place within and around the site. These observations will include but not be limited to the following:

- The presence of oil or other vehicular fluids spilled and not cleaned up.
- Discoloration caused by fluid, oxidation, or materials stockpiled.
- Smells not normally associated with the area.
- General security of the area.
- The presence of materials, which may be washed, or float off site.
- The presence and or volume of tracking of materials at the entry/exit.
- The presence of dust or other materials, which may be blown off site.
- General cleanliness of the area to include trash and sanitary conditions.
- Stockpiled materials are not migrating out of designated storage area.
- Changes to the site or abnormal conditions will be investigated.
- Inspect materials stockpiled to assure they are authorized.
- Insure temporarily stored materials are removed in a timely manner.
- Inspect security of Hazardous Materials bin to assure there is no leakage or spillage.

Any condition found to be not in compliance would be corrected immediately.

3.1.2 Observation Frequency

Documented visual inspections will be conducted by trained Department of Transportation personnel a minimum of once per month.

3.1.3 Observation Points

The following observations points will be checked and any non-compliant observations recorded.

1. Entrance gate and driveway.
2. South Swale Egress
3. Grounds and haul routes within the site.
4. South service road cross culvert.
5. All equipment parked on site.
6. Metal storage shed.
7. All material storage piles.
8. North wall.
9. East drainage ditch and berm.

3.2 Stormwater Discharge Visual Inspections

3.2.1 Observation Criteria and Checklist

Inspection of the site will be done during rain events when these events occurring during regular work hours, or within two working days after such and event. The inspection will be assigned to the maintenance supervisor to assure consistency and gain an intimate knowledge of changes taking place within the site. These observations will include but not be limited to the following:

- The presence of oil or other vehicular fluids spilled and not cleaned up.
- Discoloration caused by fluid, oxidation, or materials stockpiled.
- Smells not normally associated with the area.
- General security of the area.
- The presence of materials, which may be washed, or float off site.
- The presence and or volume of tracking of materials at the entry/exit gate.
- General cleanliness of the area to include trash and sanitary conditions.
- Stockpiled materials are not migrating out of designated storage area.
- Changes to the site or abnormal conditions will be investigated.
- Inspect materials stockpiled to assure they are authorized.
- Running water escaping the area.
- Ponding water that has sheen, smell, or discoloration.
- Rutting from vehicular use.
- Ground stability within the site.
- Security of the Hazardous Materials bin.

3.2.2 Observation Frequency

Documented inspection of the site will be done during rain events when these events occurring during regular work hours, or within two working days after such an event. Additionally, a documented inspection of the site will be done a minimum of once a month.

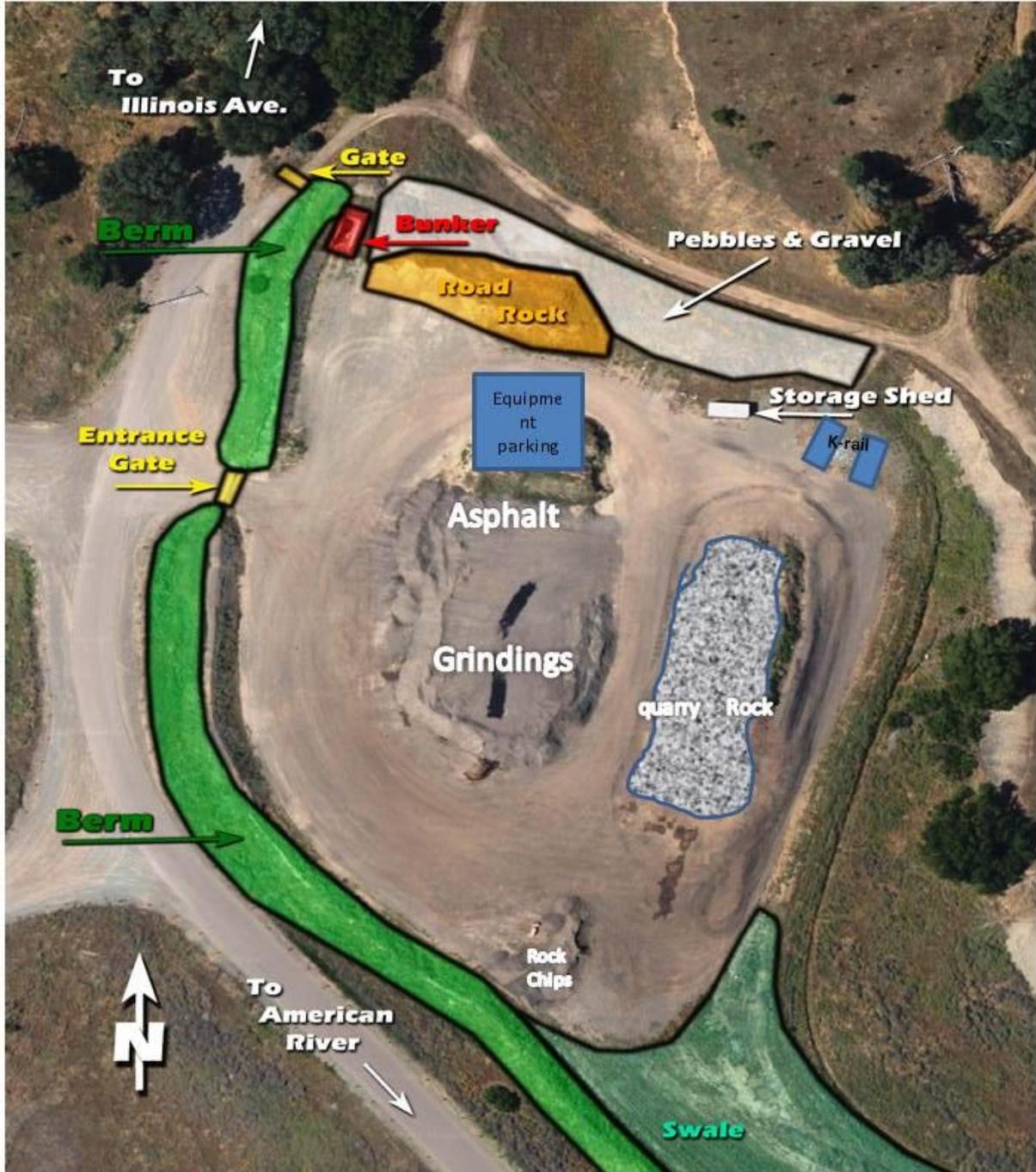
3.2.3 Observation Points

The following observation points will be checked and observations recorded on the Cutters Pit SWPP checklist. (See Policy & Forms)

1. Entrance gate and driveway.
2. The perimeter of the fence for security
3. Grounds and haul routes within the site.
4. Hazardous Materials bin.
5. All equipment parked on site.
6. Metal storage shed.
7. All material storage piles

4 Facility Map

Cutters Pit Map





5 Inspection Checklists

MATERIALS STORED AT "Cutters Pit"

The following materials/items may be stored or stockpiled at "Cutters Pit."

- Asphalt Grindings
- Quarry Rock
- Sand
- Rock "Chips"
- Cobbles
- Crushed Rock
- Road base material
- Broken Asphalt
- Wood Rounds/Lumber
- Locked Watertight Storage Shed (s)
- Heavy Equipment

The following materials/items may be temporarily stored or stockpiled at "Cutters Pit."

- Ditch dig-out materials (dry only)
- Road base repair dig-out materials
- Top Soil
- Broken Concrete (dust)
- Treated Lumber
- Rusty Pipe

The above materials must be removed before expected rainfall.

The following materials/items may not to stored or stockpiled at "Cutters Pit."

- Liquid Petroleum Products
- Contaminated Ditch Spoils
- Wet Dig-Out Material
- Garbage or Trash



Cutters Pit Storm water Protection Program Observation Checklist

OK Not compliant

- Is the entrance gate secure?
- Is there tracking of materials from the storage area onto the road?
- Is the gate in good condition? (Not Rusting or Damaged)
- Is the vegetation in proper condition for the season? There should no dead or unnatural discoloration of plants and soils.
- Is there evidence of siltation downstream of the driveway in the gutter?
- Are the sheds secure?
- Do the sheds show rust or decay?
- Is anything leaking from the sheds?
- Are the stockpiled materials eroding, slumping, or sliding?
- Are the stockpiled materials authorized?
- Is there mud or debris being tracked by vehicles off site?
- Are the haul routes within the site muddy?
- Is there trash on the inside or outside of the fence?
- Is there any discoloration of soils or materials such as rust or unnatural sheen from petroleum products?