

METHODS AND PROCEDURES FOR THE COLLECTION OF STORMWATER RUNOFF FROM THE PRELL BASIN, HOBBS BASIN AND MAIN STREET CHANNEL LOCATED IN THE CITY OF SANTA MARIA

SAMPLE LOCATION FOR THE PRELL BASIN

The City of Santa Maria will collect samples representative of the urban runoff, which is discharged into the Santa Maria River. The samples are to be taken on the West side of Highway 101 at the storm water channel where storm water enters the large diameter stormwater line, which leads under Highway 101 and Crossroads Lane (see Attachment). This site was selected because of its proximity to the Prell Basin and relative ease to collect a sample. The site is representative of stormwater entering the City from the East.

SAMPLE LOCATION FOR THE HOBBS BASIN

The City of Santa Maria will collect samples representative of the urban runoff, which is discharged into the Santa Maria River. The samples are to be taken at the Northwest corner of the 50-inch pipe that discharges stormwater overflow from the Hobbs Basin. The Basin is located approximately 400-yards to the South of the 1400 block of West Stowell Road (see Attachment). This site is representative of storm water that leaves the City and is eventually discharged to the Santa Maria River.

SAMPLE LOCATION FOR THE WEST MAIN STREET CHANNEL

The City of Santa Maria will collect samples representative of urban runoff, which is discharged into the Santa Maria River. The samples are to be taken at the North side of Main Street Channel 500 feet South of Hansen Way directly in front of Western Ag Services. Samples will also be collected on the South side of the Main Street Channel, approximately 700 feet West of Hansen Way at the discharge into the storm water channel.

SAMPLING TIMES AND PERSONELL

Sampling of Prell and Hobbs Basins is to be performed, at a minimum, during overflow conditions in which storm water that is collected in the basins is discharged to a channel. Sampling of the Main Street Channel will be performed, at a minimum, during two separate storm events per year. City staff trained in the proper collection of water and wastewater will collect the samples. Sampling shall consist of a grab sample from a storm event that produces a storm water discharge that is preceded by at least 72 hours of dry weather. The sample should be taken during the first hour of runoff or soon thereafter with a note of explanation as to why the collection could not be made during the first hour. Sample collections will occur if stormwater runoff occurs during scheduled facility operating hours.

COLLECTION OF SAMPLES

All samples are to be taken as grab samples utilizing proper sampling and preservation techniques in accordance to 40 CFR PART 136 and SCVRCB / QAPP Appendix D requirements. Grab samples will be collected into an appropriate pre-cleaned container and aliquoted into glass, polyethelene, or Teflon sample containers. Field collected samples will be stored at 4° C until arrival at a laboratory certified to perform the requested analysis. Samples to be analyzed for other constituents will be preserved in the field or lab, as

appropriate, and as described in the SWAMP Handling and Custody Requirements Summary Tables (Tables 6 and 7, Section B3).

In accordance with the June 23, 2004 letter from the Regional Water Quality Control Board, this MRP includes the following parameters, at a minimum:

Parameter	Detection Limit	Analytical Method
Nitrate as N	< 0.1 mg/L	EPA 353.3
Unionized ammonia as N	< 0.02 mg/L	EPA 350.3
Orthophosphate as P	< 0.1 mg/L	EPA 365.3
Total Coliform	25 multiple tube dilution	SM 9221B
Fecal Coliform	25 multiple tube dilution	SM 9221E

COLLECTION OF WATER SAMPLES

Samples analyzed for bacteria will be collected as near-surface grab samples. Sampling for bacteria will be performed according to sampling procedures detailed for Standard Methods 922B and 9221E. The grab sample container will be a pre-cleaned polyethylene container, which will be used to pour a 100 ml. aliquot into a pre-cleaned/sterilized 100-ml. plastic container supplied by the lab. Samples are to be collected while wearing protective gloves and utilizing clean sampling techniques. After collection, all samples will be packed in dry ice or frozen ice packs during shipment, so that they will be kept at approximately 4°C. Samples will be shipped in insulated containers. All caps and lids will be checked for tightness prior to shipping. All samples will be handled, prepared, transported and stored in a manner so as to minimize bulk loss, analyte loss, biological degradation or contamination. Sample containers will be clearly labeled with an indelible marker.

- Sample bottles may be glass or plastic (e.g. polypropylene) with a capacity of at least 100 mls. or a Whirl-pac bag. After sterilization, sample bottles should be kept closed until they are filled.
- When removing caps from sample bottles, be careful to avoid contaminating inner surface of caps or bottles.
- Using aseptic techniques fill sample bottles, leaving sufficient airspace to facilitate mixing by shaking. Do not rinse bottles.
- Recap bottles tightly.

If at any time the sampling crew suspects that the sample or sampling container has been contaminated, the sample should be re-collected into a new sample container.

If bacteriological samples are to be used for regulatory compliance purposes, then the samples must be kept at 4°C (in the dark) and analysis must begin within six hours of collection, otherwise a twenty-four hour hold time is to be followed.

Chain-of-Custody (COC) procedures require that possession of samples be traceable from the time the samples are collected until completion and submittal of analytical results. A complete COC form is to accompany the transfer of samples to the analyzing laboratory. The person collecting the sample will fill out a chain of custody form(s) and sample label(s). Information to be included on the chain of custody form will include the name of the person who collected the sample, sample date and time, preservation, number of sample bottles, sample locations, and the analysis requested. Ice chests are sealed with tape before shipping. Samples are placed in the ice chest with enough ice to completely fill the ice chest. COC forms (as well as "Authorization/Instruction for Analysis" forms) are placed in a plastic bag and taped to the inside of the ice chest.