

Associated Laboratories

Sampling Your Stormwater

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Associated Laboratory

- Full Service Laboratory
 - California ELAP Certified
 - California NELAP Certified
 - Nevada NDEP Certified
 - Hawaii Certified
 - SBE Certified with the State of California

We analyze – Water, Soil, Sediment, Air and Products

Presenting

- Introduction to Sampling
- Bottle Types & Preservatives & Holding Times
- How to use a Chain-of –Custody
- Reading your Analytical Report

Where Stormwater Discharges

- Sampling Points – where stormwater is discharged
 - Out flows
 - Drains
 - Ditches
 - Other structures that transport stormwater
- Non-Sampling points
 - Areas that business does not take place

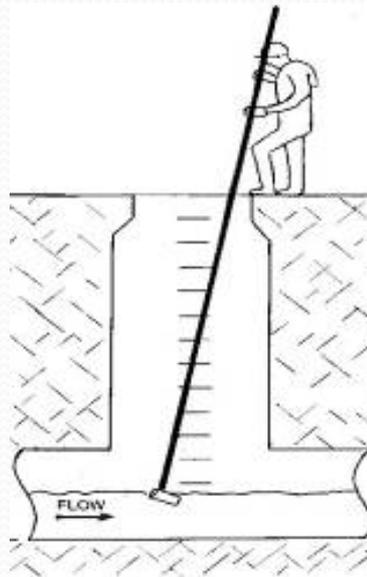


Sampling Points



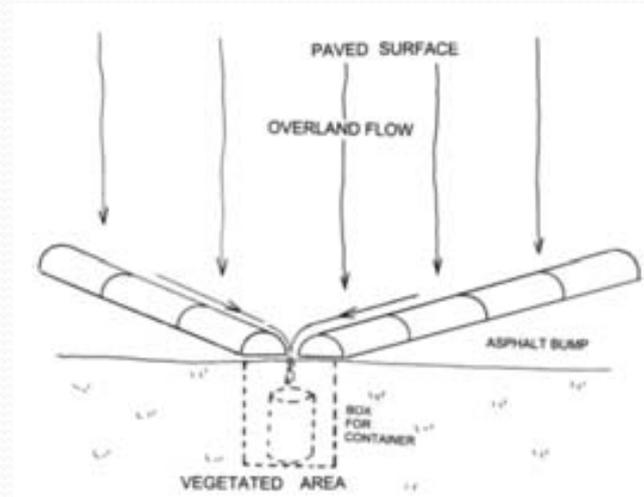
Sampling

- Sampling From a Pipe
 - Sample directly from the pipe
 - For hard to reach – fasten collection bottle to a pole



Sampling

- Sampling From Ditch or Swale
 - Consistently flowing
 - If too small or shallow
 - Install a barrier device to deepen a small area



Sampling

When Collecting any type of stormwater sample it is imperative that the sample is collected before the stormwater reaches the receiving water.



Bottle Kits

- Bottle Types
- Preservatives
- Holding times
- Tests Needed for Stormwater

Bottle Types



Chain-of-Custody

ASSOCIATED LABORATORIES																		
CHAIN OF CUSTODY RECORD																		
Company					Phone					A.L. Job No.			Page _____ of _____					
Project Manager					Fax					Analysis Requested			Test Instruction & Comments					
Project Name					Project #					Oil & Grease	Conductivity	TSS & pH	Metals*					
Site Name																		
& Address					1700 Saturn Way, Seal Beach, CA 90740					Pres.								
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size													
1						N/A	x	x							*Cd, Cr, Cu, Pb, Ni, Ag, Zn			
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Sample Receipt - To Be Filled By Lab					Turn Around Time					Relinquished By: _____			1 Relinquished By: _____		2 Relinquished By: _____		3 Relinquished By: _____	
Total Number of Containers					Normal					Signature			Signature		Signature		Signature	
Custody Seals Yes No N/A					Rush					Signature			Signature		Signature		Signature	
Received in Good Condition Yes No					Same Day					Printed Name			Printed Name		Printed Name		Printed Name	
Properly Cooled Yes No N/A					24 Hrs					Date Time			Date Time		Date Time		Date Time	
Samples Intact Yes No N/A					48 Hrs					Received By			1 Received By		2 Received By		3 Received By	
Samples Accepted Yes No					72 Hrs					Signature			Signature		Signature		Signature	
										Printed Name			Printed Name		Printed Name		Printed Name	
										Date Time			Date Time		Date Time		Date Time	
PLEASE FILL IN THE YELLOW HIGHLIGHTED																		

Delivering Your Samples

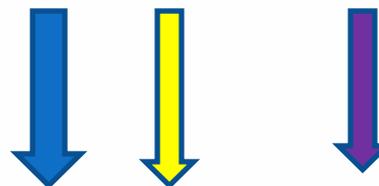
- Samples should be kept in cooler with ice
 - Temperature less than 6°C



Laboratory Report

Sample #: 293968
 Matrix: Water
 Collect Date:
 Collect Time:

Client:
 Client Sample #:
 Site:
 Collector: client



Compound	Result	DF	RDL	Units	Analysis Date	Analyst
Method: EPA 1664a	Prep Method:			QCBatchID: QC1120288		
Total Oil and Grease	ND	1	5	mg/L	11/04/11	rybechay
Method: SM 2510-B	Prep Method:			QCBatchID:		
Specific Conductance	110	1	1	umhos/cm	11/04/11	cathy
Method: SM 2540-D	Prep Method:			QCBatchID: QC1120263		
Total Suspended Solids	82	1	5	mg/L	11/04/11	ame
Method: SM 4500-H+B	Prep Method:			QCBatchID:		
pH	6.23	1		pH Units	11/04/11	cathy
Method: SM 5310B	Prep Method: Method			QCBatchID: QC1120368		
Total Organic Carbon (TOC)	42.0	2	1	mg/L	11/07/11	quang

Collecting Samples Check List

- Contact lab well in advance of storm
 - Order bottles
 - Label bottles
- Watch the weather
- Have your monitoring team ready
- Have Chain-Of-Custody ready

Discuss with your Lab

- What type of bottle are needed for the test on the permit?
- Can I get extra bottles for collecting the samples?
- How full do you need to fill the bottles?
- Are there safety concerns with the bottles?
- Will the lab deliver the bottles and pick-up?
- Will the lab help me fill out the chain-of-custody?



Associated Laboratories

Founded in 1922

Located in Orange California

We are here for you!