Arroyo Seco Water Quality

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Presentation Outline

Water Issues

The Arroyo Seco

Geography, Process, and Data

Concept Map

Is the Arroyo Seco healthy?

Global Water Issues

Clean Water

Developing Countries

Availability

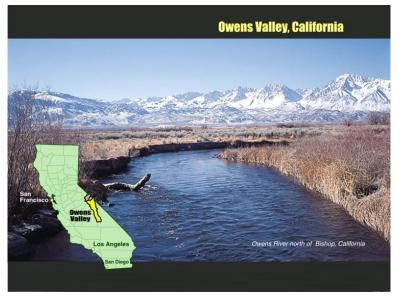
California Water Issues

- Laws of nature
- Where does our water come from?
- How do we use our water?
- The current problem

Where Does Southern California Get Water ?







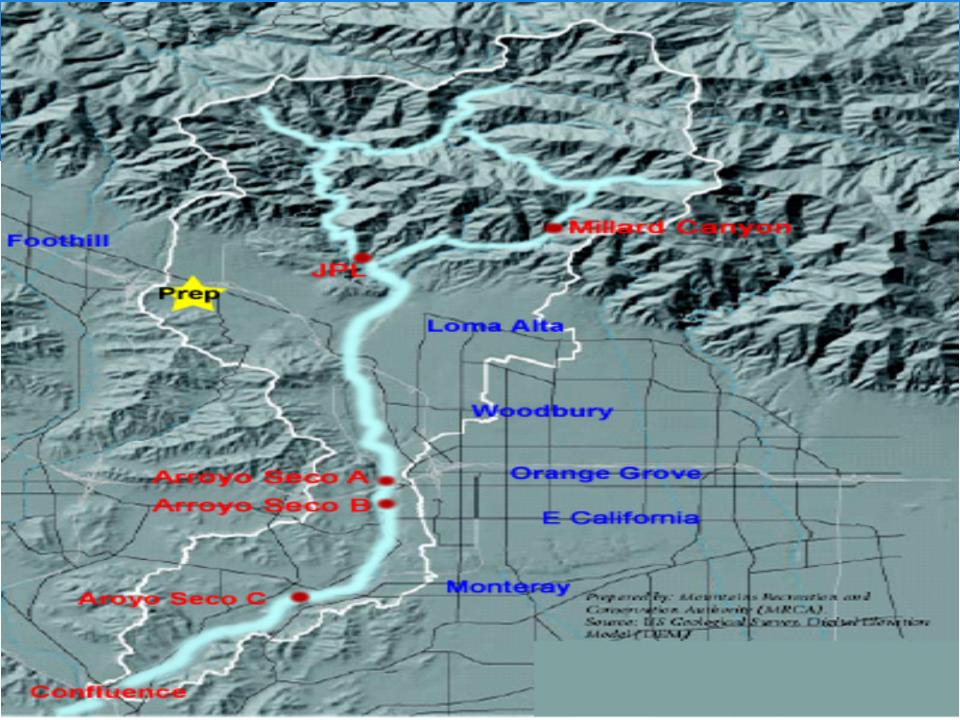
The Arroyo Seco

- LA River
- Beginnings
- Function

The Question

Is the Arroyo Seco a healthy river?





Indicators

Conductivity Temperatur е pН D.O. Nitrate **Bacteria** E.Coli



Undeveloped Site Data

		07410040000		
	REGULATORY	STANDARDS	UNDEVE LOPED	
	National MCL	State/Local MCL	Millard	JPL
		Arroyo Seco/ LA		
		River Confluence:		
Discharge (cfs)	N/A	23	0.4	1.8
Conductivity: (mg/L)	Maximum 1000	570	239	242
Temperature: (C)	NA	NA	11	11.6
pH:	6.5-8.5	7.6-8.6	7.8	7.3
	Must be >5mg/l to	ľ		
D.O.: (mg/L)	support life	N/A	7.2	9.2
Nitrate: (mg/L)	45	10	3.2	1.6
	220 cfu per 100 mL			
Bacteria: (cfu/100 mL)	of water	N/A	700	1500
E.Coli: (cfu/100 mL)	N/A	N/A	None	None

Developed Site Data

	REGULATORY	STANDARDS		DEVELOPED	
	National MCL	State/Local MCL	Arroyo Seco A	Arroyo Seco B	Arroyo Seco C
		Arroyo Seco/ LA			
		River Confluence:			
Discharge (cfs)	N/A	23	0.5	1.2	4.9
Conductivity: (mg/L)	Maximum 1000	570	146.8	685	458
Temperature: (C)	NA	NA	15.5	13.5	13.8
pH:	6.5-8.5	7.6-8.6	8.2	8.52	8.4
	Must be >5mg/l to				
D.O.: (mg/L)	support life	N/A	4.9	6.5	7.5
Nitrate: (mg/L)	45	10	9.2	5.8	5.8
	220 cfu per 100 mL				
Bacteria: (cfu/100 mL)	of water	N/A	2800	1300	1700
E.Coli: (cfu/100 mL)	N/A	N/A	200	500	6100

Sources/Human Use

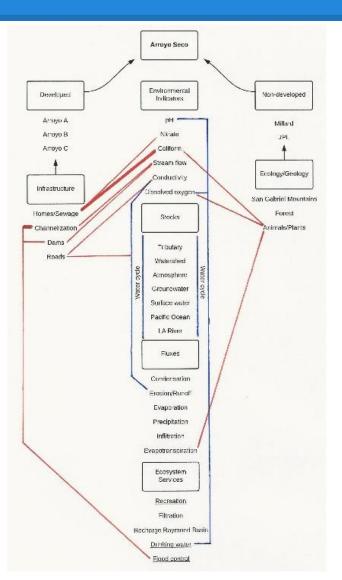
Direct Sources

Outfalls from factories or treatment plants

Indirect Sources

Rain water is run through the water solution and picks up pollutants along the way. An example of this particular to the arroyo would be freeway runoff.

Concept Map





Is the Arroyo Seco healthy?