Precipitation Events									
		Ante- Time to Respond / Peak After Start of Rain*		Travel from Source		Duration of			
	Threshold	cedent		Turbid-	Spec.		Dis-	Response	Specific
	Precip-	Condit-	Flow	ity	Cond.		tance	Relative to	Conductance
Source	itation	ions		(hrs)		Time	(ft)	Storm	Response
Lindsey (1959)						8 hrs			
Wisser & Cox (1960)				shortly after					
Todd (1963)						>50 days			
Lindsey (1964)				48					
Creegan (1972)				little lag					
				time					
Engineering-Science (1991)									not down
Watkins-Johnson (1992)	2 in/day		24						
SECOR (1998)	<0.2 in/hr	wet		3.5 - 5	3.5 - 6	6 hrs		similar	up and/or down
EMKO (1999)									
every storm				30-50				much longer	up
major or late-season storm		wet		3.	-6			longer	down
Farallon (2000) (WY 1999)		wet		3.5 - 6		≤6 hrs	>1,000	similar	down then up
Farallon (2001) (WY 2000)		dry		10 - 14		2 - 5 hrs		similar	up
		wet		2 - 5		2 - 5 1115		Sillina	up
Balance Hydrologics (2005)									
(WY 2005) strong singals				9 - 19					
full range				4.5 - 32					

*Various definitions of start and response times.

Tracer Tests									
	Map Distance								
	from Injection		Arrival of Peak or						
	Point	First Arrival	Center of Mass						
Study	(ft)	(days)							
Lindsey (1968)	450	6.5	10-20						
PELA (2005)									
from MW NZA	800	7 hrs							
from SH-6	4,100	3.3	10						
from Reggiardo Ck	4,900	6.5	16						
from Reggiardo trib.	5,400	29							
from Laguna Ck	14,500	67	88						

(times and distances are in relation to Liddell Spring)

Summary of Previous Interpretations of Liddell Spring's Response to Precipitation and Tracers

Table 39 Nolan Associates