

**Table II
Evaluation of Oliver
Groundwater Quality Ambient Network**

Network Name :		OLIVER				
Aquifer Numbers:		254 1A (Oliver) , 255 1A(Oliver north)				
Monitored Since:		March 5, 1985				
Footprint Area:		19.2 km ² and 10.7 km ²				
Number of Obs wells:		14 wells at 14 sites				
Number wells in WRA:		691				
Aquifer Classification:		254 IA (rank 16), 255 1A (rank 15)				
Parameters ≥ GCDWQ:		Uranium, NO3				
Contaminants of Concern:		Uranium, NO3, K, NO2				
Network Objective		Measurement Criteria	Current Status	Evidence of Change	Response Options	Comments
1	Spatial and Depth Coverage	a. background well(s)	- good spatial coverage	- no evidence of geothermal	- no response/change	
		b. coverage in areas of suspected impacts		- no significant land use change	- add well(s) to the south of Oliver	
		c. coverage of all indicated spatial mode areas				
		d. coverage of hydraulically isolated formations				
2	Suite of Chemistry Parameters and Lab Methods	a. indicator parameters capable of identifying existing/potential threats	- insufficient parameters to verify charge balance		- no response/change	
		b. ability for anion/cation balance	- HCO3 not regularly included		- sample for complete suite in all parameters annually	
		c. continuity of historical parameters	- background for some parameters is modal		- monitor WTN 21867 more closely	
		d. consistent suite of parameters				
		e. new parameters reflect emerging lab methods and recs. by Kohut (2009)				
		f. surrogate monitoring methods				
3	Sampling Frequency for Network + Wells of Importance	a. consistency in suite of parameters	- paramters not consistent	- sample frequency is not consistent	- no response/change	
		b. duration frequency for primary and secondary priority wells	- no seasonal sampling		- sample more consistently	
		c. sampling for seasonal variation			- could sample less frequently in background wells at north end	
4	Field Methods QA/QC Data Validation	a. field sampling + handling protocols	- some outliers identified,		- no response/change	
		b. QA/QC lab results	As variable likely result of		- adherence to field protocols	
		c. cation/anion balance	sampling methods		- EMS results reviewed quickly so that sample re-testing still possible	
		d. QA/QC data entered in EMS				
		e. identify statistical outliers				
5	Spatial and Temporal Analysis and Reporting	a. visual outliers and spatial/temporal trends	- some upward trends exist	- upward trend in NO2 and K	- no response/change	- nitrogen and uranium are above GCDWQ and close attention is required in WTN 21867 and WTN 83010/83011
		b.			- regular analysis/vaildation to identify outliers/trends	
					- communicate with planners	
					- communicate with water users	
					- communicate with planners	