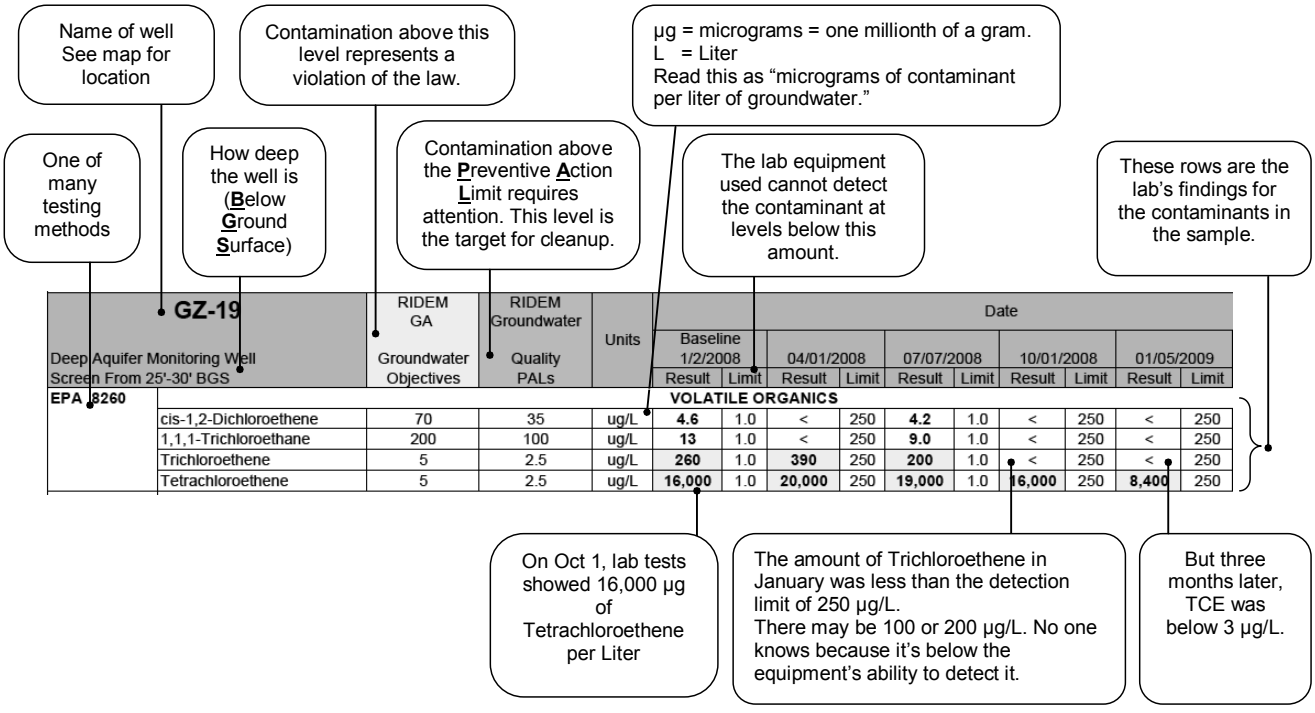
Not for Scientists Only!

Remember Your Smart Moves. (See p. 35.) Take it Slowly!

Ethan Contini-Field

In order to track the clean-up of the land around Charbert Dye (see p. 28), the people of Alton, Rhode Island, look at charts like the ones you see below. At first, these charts might seem too complicated—like only a scientist could understand them! But take your time and see if you can make sense of them.



GZ-19		RIDEM GA	RIDEM Groundwater	Units	Date									
Deep Aquifer Monitoring Well Screen From 25'-30' BGS		Groundwater Objectives	Quality PALs		Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009	
					Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
EPA 8260	VOLATILE ORGANICS													
	cis-1,2-Dichloroethene	70	35	ug/L	**4.6**	1.0	<	250	**4.2**	1.0	<	250	<	250
	1,1,1-Trichloroethane	200	100	ug/L	**13**	1.0	<	250	**9.0**	1.0	<	250	<	250
	Trichloroethene	5	2.5	ug/L	**260**	1.0	**390**	250	**200**	1.0	<	250	<	250
	Tetrachloroethene	5	2.5	ug/L	**16,000**	1.0	**20,000**	250	**19,000**	1.0	**16,000**	250	**8,400**	250

GP-28		RIDEM GA	RIDEM Groundwater	Units	Date									
Shallow Aquifer Monitoring Well Screen From 3'-15' BGS		Groundwater Objectives	Quality PALs		Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009	
					Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
EPA 8260	VOLATILE ORGANICS													
	Vinyl Chloride	2	1	ug/L	**1,200**	5.0	**180**	2.5	<	1.0	**10**	1.0	**140**	1.0
	cis-1,2-Dichloroethene	70	35	ug/L	**1,400**	5.0	**200**	2.5	**6.2**	1.0	**2.9**	1.0	**940**	1.0
	Trichloroethene	5	2.5	ug/L	<	5.0	<	2.5	<	1.0	<	1.0	**350**	1.0
	Tetrachloroethene	5	2.5	ug/L	<	5.0	<	2.5	<	1.0	<	1.0	**2,900**	1.0

Vinyl chloride causes cancer in humans. According to test results at GP-28, how is the clean-up affecting vinyl chloride levels? Follow the tips on p. 28 and the hints above to help you interpret the data.