

Complete Station Testing Methodology 2001 – 2013

Tritium sampling occurred near all stations in the CEMP network

Location	Tritium Results from CEMP offsite water tests (³ H - pCi/L)												
	2013	2012	2011	2010	2009	2008‡	2007	2006	2005	2004	2003	2002	2001
Adaven Springs*	†	11.0	13.8	13.8	12.4	10.7	9.7	22.6	20	12	16	15	
Alamo^	<1.12	0.6	0.6	-0.3	0.4	0.8	-6.4	-9.7	-4	-3	-1	2	7
Amargosa Valley^	<1.12	-0.2	0.3	-0.3	-0.1	0.0	6.4	-6.4	-3	-2	3	0.1	3
Beatty^	<1.12	0.8	0.3	0.4	0.1	-0.2	3.2	-12.9	-3	-2	0	2	3
Boulder City*	21.9	21.9	22.2	22.6	21.6	24.1	19.3	35.4	24	29	35	27	34
Caliente^	4.32	3.9	4.8	4.7	4.7	5.4	3.2	-3.2	8	7	5	8	12
Cedar City^	<1.12	0.1	-0.1	-0.2	-0.1	0.2	6.4	0.0	3	-4	-4	-3	1
Delta^	<1.12	0.0	0.0	0.1	-0.1	-0.1	3.2	6.4	-8	2	-1	-0.8	1
Duckwater^	<1.12	0.0	0.2	0.2	0.1	0.3	6.4						
Ely*	2.7	2.1	2.6	2.7	2.7	2.8	16.1	9.7	-2				
Goldfield^	<1.12	-0.1	-0.3	0.2	0.0	0.4	3.2	-9.7	0	-4	5	-0.3	<1
Henderson*	23.3	22.5	22.7	23.5	22.4	23.2	32.2	16.1	24	27	27	26	34
Indian Springs^	<1.12	0.0	-0.2	0.1	-0.3	0.1	3.2	9.7	-5	-1	4	5	2
Las Vegas^	<1.12	0.2	0.4	0.3	0.8	0.8	12.9	3.2	-5	3	-2	1	<1
Medlin's Ranch*	†	5.8	8.3	8.4	3.8	5.1	3.2	0.0	10	9	9	4	13
Mesquite^	<1.12	0.1	-0.3	0.2	-0.1	0.0	0.0	0.0					
Milford^	<1.12	0.2	-0.2	-0.3	0.0	-0.3	0.0	12.9	1	-5	-2	-1	<1
Nyala Ranch^	†	2.9	1.2	0.0	0.5	0.5	-3.2	9.7	0	-1	-4	-1	
Overton^	<1.12	-0.4	-0.3	0.0	0.1	-0.1	12.9	6.4	-4	3	2	0.4	1
Pahrump^	<1.12	-0.1	-0.2	0.1	0.1	0.1	0.0	3.2	-5	-1	2	-2.0	1
Pioche^	<1.12	0.0	0.2	-0.2	-0.1	0.1	0.0	6.4	-7	2	-1	4	<1
Rachel^	<1.12	-0.2	-0.1	0.0	-0.1	-0.2	-6.4	3.2	-1	-1	-9	1	<1
Sarcobatus Flats^	<1.12	0.2	0.0	0.4	0.3	0.1	19.3	-3.2	-3	3	-7	-4	
Stone Cabin Ranch*	†	0.4	0.6	0.6	0.5	0.8	-6.4	0.0	2	-2	3	2	
St. George*	7.8	9.9	11.8	8.5	9.3	9.4	22.6	9.7	8	-3	4	8	9
Tecopa^	<1.12	0.3	0.4	0.6	0.4	-0.2							
Tonopah^	<1.12	0.0	0.1	0.0	-0.3	-0.1	9.7	-3.2	-4	-2	4	-2	<1
Twin Springs^	†	0.2	0.1	0.0	0.0	-0.1	-9.7	3.2	-2	-3	-1	0.7	

* Sample taken from spring or surface water. ^ Sample taken from well water. † Sampling at this location discontinued.

‡ In 2008, analyses began to be conducted using enriched gas proportional counting. Prior to that year gas proportional or liquid scintillation counting was used.

The safe drinking water standard for tritium allows 20,000 pCi/L. Source: Nevada Test Site Environmental Reports.

MDC 2001-2005= 21 pCi/L (enriched liquid scintillation counting).

MDC 2006, 2007= 24 pCi/L, 26.5 pCi/L respectively (gas proportional counting). Some 2007 results were anomalously high and not repeated in subsequent samples.

MDC 2008-2010= ~1.0 pCi/L (enriched gas proportional counting).