



LABORATORY ANALYTICAL REPORT

**Client:** Texas Water Development Board  
**Project:** TWDB  
**Lab ID:** C06081513-003  
**Client Sample ID:** 8419303 (861)

**Report Date:** 09/29/06  
**Collection Date:** 08/21/06 15:25  
**Date Received:** 08/30/06  
**Matrix:** Aqueous

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>MAJOR IONS</b>							
Alkalinity, Phenolphthalein as CaCO3	ND	mg/L		1		A2320 B	08/31/06 09:50 / th
Alkalinity, Total as CaCO3	388	mg/L		1		A2320 B	08/31/06 09:50 / th
Bromide	ND	mg/L		0.50		E300.0	09/01/06 04:44 / wen
Calcium	92.6	mg/L		0.5		E200.7	09/11/06 17:17 / ts
Chloride	4420	mg/L		1		A4500-Cl B	08/31/06 17:00 / jl
Fluoride	1.0	mg/L		0.1		A4500-F C	08/31/06 07:13 / th
Magnesium	16.6	mg/L		0.5		E200.7	09/11/06 17:17 / ts
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/31/06 14:43 / jal
Potassium	103	mg/L		0.5		E200.7	09/11/06 17:17 / ts
Silica	53.4	mg/L		0.1		E200.7	09/11/06 17:17 / ts
Sodium	2960	mg/L	D	0.6		E200.7	09/11/06 17:20 / ts
Sulfate	180	mg/L	D	3		A4500-SO4 E	09/11/06 11:56 / bmm
<b>NON-METALS</b>							
Iodide	2.0	mg/L		0.10		E300.0	09/11/06 20:55 / eli-b
<b>METALS - DISSOLVED</b>							
Aluminum	19	ug/L	D	2		E200.8	09/05/06 14:16 / bws
Antimony	ND	ug/L		1		E200.8	09/05/06 14:16 / bws
Arsenic	24	ug/L	D	2		E200.8	09/05/06 14:16 / bws
Barium	174	ug/L		1		E200.8	09/05/06 14:16 / bws
Beryllium	ND	ug/L		1		E200.8	09/05/06 14:16 / bws
Boron	16600	ug/L		100		E200.7	09/11/06 17:17 / ts
Cadmium	ND	ug/L	D	1		E200.8	09/05/06 14:16 / bws
Chromium	6	ug/L	D	1		E200.8	09/05/06 14:16 / bws
Cobalt	ND	ug/L		1		E200.8	09/05/06 14:16 / bws
Copper	ND	ug/L	D	1		E200.8	09/05/06 14:16 / bws
Iron	54	ug/L		30		E200.7	09/11/06 17:17 / ts
Lead	ND	ug/L		1		E200.8	09/05/06 14:16 / bws
Lithium	453	ug/L		1		E200.8	09/07/06 16:37 / bws
Manganese	384	ug/L		1		E200.8	09/05/06 14:16 / bws
Molybdenum	16	ug/L		1		E200.8	09/05/06 14:16 / bws
Selenium	25	ug/L	D	4		E200.8	09/05/06 14:16 / bws
Strontium	1680	ug/L		1		E200.8	09/05/06 14:16 / bws
Thallium	1	ug/L		1		E200.8	09/05/06 14:16 / bws
Vanadium	3	ug/L		1		E200.8	09/05/06 14:16 / bws
Zinc	174	ug/L	D	3		E200.8	09/05/06 14:16 / bws
<b>RADIONUCLIDES - DISSOLVED</b>							
Gross Alpha	37.6	pCi/L		1.0		E900.0	09/15/06 08:57 / rs
Gross Alpha precision (±)	6.7	pCi/L				E900.0	09/15/06 08:57 / rs

**Report** RL - Analyte reporting limit.

**Definitions:** QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



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				RL	QCL		
<b>RADIONUCLIDES - DISSOLVED</b>							
Radium 226	0.2	pCi/L		0.2		E903.0	09/19/06 15:15 / trs
Radium 226 precision (±)	0.2	pCi/L				E903.0	09/19/06 15:15 / trs
Radium 228	1.2	pCi/L		1.0		RA-05	09/14/06 16:24 / pj
Radium 228 precision (±)	0.8	pCi/L				RA-05	09/14/06 16:24 / pj
Uranium 234	3.5	pCi/L		0.2		E907.0	09/15/06 15:00 / df
Uranium 234 precision (±)	1.0	pCi/L				E907.0	09/15/06 15:00 / df
Uranium 235	ND	pCi/L		0.2		E907.0	09/15/06 15:00 / df
Uranium 238	1.6	pCi/L		0.2		E907.0	09/15/06 15:00 / df
Uranium 238 precision (±)	0.6	pCi/L				E907.0	09/15/06 15:00 / df
<b>DATA QUALITY</b>							
A/C Balance (± 5)	0.340	%		250		Calculation	09/13/06 11:23 / cp
Anions	136	meq/L		250		Calculation	09/13/06 11:23 / cp
Cations	137	meq/L		250		Calculation	09/13/06 11:23 / cp

**Report Definitions:** RL - Analyte reporting limit.  
 QCL - Quality control limit.

MCL - Maximum contaminant level.  
 ND - Not detected at the reporting limit.