



LABORATORY ANALYTICAL REPORT

**Client:** Texas Water Development Board  
**Project:** TWDB  
**Lab ID:** C06100938-003  
**Client Sample ID:** 3221505 (8211)

**Report Date:** 10/31/06  
**Collection Date:** 10/17/06 09:49  
**Date Received:** 10/19/06  
**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     | 10/26/06 14:10 / bmm |
| Alkalinity, Total as CaCO3           | 299    | mg/L  |      | 1    |     | A2320 B     | 10/26/06 14:10 / bmm |
| Bromide                              | ND     | mg/L  | D    | 0.60 |     | E300.0      | 10/26/06 17:07 / bt  |
| Calcium                              | 9.7    | mg/L  |      | 0.5  |     | E200.7      | 10/24/06 15:55 / ts  |
| Chloride                             | 9      | mg/L  |      | 1    |     | A4500-Cl B  | 10/20/06 09:06 / jl  |
| Fluoride                             | 0.7    | mg/L  |      | 0.1  |     | A4500-F C   | 10/27/06 16:06 / bmm |
| Magnesium                            | 4.5    | mg/L  |      | 0.5  |     | E200.7      | 10/24/06 15:55 / ts  |
| Nitrogen, Nitrate+Nitrite as N       | ND     | mg/L  |      | 0.1  |     | E353.2      | 10/20/06 15:38 / jal |
| Potassium                            | 3.6    | mg/L  |      | 0.5  |     | E200.7      | 10/24/06 15:55 / ts  |
| Silica                               | 12.6   | mg/L  |      | 0.1  |     | E200.7      | 10/24/06 15:55 / ts  |
| Sodium                               | 148    | mg/L  |      | 0.5  |     | E200.7      | 10/24/06 15:55 / ts  |
| Sulfate                              | 60     | mg/L  |      | 1    |     | A4500-SO4 E | 10/20/06 09:48 / jal |
| <b>METALS - DISSOLVED</b>            |        |       |      |      |     |             |                      |
| Aluminum                             | ND     | ug/L  |      | 1    |     | E200.8      | 10/20/06 20:47 / sml |
| Antimony                             | ND     | ug/L  |      | 1    |     | E200.8      | 10/20/06 20:47 / sml |
| Arsenic                              | ND     | ug/L  |      | 1    |     | E200.8      | 10/20/06 20:47 / sml |
| Barium                               | 19     | ug/L  |      | 1    |     | E200.8      | 10/20/06 20:47 / sml |
| Beryllium                            | ND     | ug/L  |      | 1    |     | E200.8      | 10/20/06 20:47 / sml |
| Boron                                | 333    | ug/L  |      | 100  |     | E200.7      | 10/24/06 15:55 / ts  |
| Cadmium                              | ND     | ug/L  |      | 1    |     | E200.8      | 10/20/06 20:47 / sml |
| Chromium                             | ND     | ug/L  |      | 1    |     | E200.8      | 10/20/06 20:47 / sml |
| Cobalt                               | ND     | ug/L  |      | 1    |     | E200.8      | 10/20/06 20:47 / sml |
| Copper                               | 10     | ug/L  |      | 1    |     | E200.8      | 10/20/06 20:47 / sml |
| Iron                                 | ND     | ug/L  |      | 30   |     | E200.7      | 10/24/06 15:55 / ts  |
| Lead                                 | ND     | ug/L  |      | 1    |     | E200.8      | 10/20/06 20:47 / sml |
| Lithium                              | 45     | ug/L  |      | 1    |     | E200.8      | 10/20/06 11:30 / bws |
| Manganese                            | 8      | ug/L  |      | 1    |     | E200.8      | 10/20/06 20:47 / sml |
| Molybdenum                           | 1      | ug/L  |      | 1    |     | E200.8      | 10/20/06 20:47 / sml |
| Selenium                             | ND     | ug/L  |      | 1    |     | E200.8      | 10/20/06 20:47 / sml |
| Strontium                            | 588    | ug/L  |      | 1    |     | E200.8      | 10/20/06 20:47 / sml |
| Thallium                             | ND     | ug/L  |      | 1    |     | E200.8      | 10/20/06 20:47 / sml |
| Vanadium                             | 1      | ug/L  |      | 1    |     | E200.8      | 10/20/06 20:47 / sml |
| Zinc                                 | 15     | ug/L  |      | 1    |     | E200.8      | 10/20/06 20:47 / sml |
| <b>DATA QUALITY</b>                  |        |       |      |      |     |             |                      |
| A/C Balance (± 5)                    | 0.590  | %     |      | 250  |     | Calculation | 10/27/06 15:23 / cp  |
| Anions                               | 7.49   | meq/L |      | 250  |     | Calculation | 10/27/06 15:23 / cp  |
| Cations                              | 7.40   | meq/L |      | 250  |     | Calculation | 10/27/06 15:23 / cp  |

**Report Definitions:**  
 RL - Analyte reporting limit.  
 QCL - Quality control limit.  
 D - RL increased due to sample matrix interference.

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