

**Calculation of Cohen's Adjustment  
Natural Log of Chromium Concentrations  
Detected in Glen Rose Formation Limestone  
Camp Stanley Storage Activity, Texas**

| Sample ID                                | Chromium Concentrations (mg/kg) | Natural log of Chromium Concentrations (mg/kg) |   |
|--|---------------------------------|--|---|
| BKGR-SB1 (4.5)                           | 2.0                             | 0.69   | U |
| BKGR-SB2 (10)                            | 2.0                             | 0.69   |   |
| BKGR-SB3 (19.5)                          | 2.2                             | 0.79   |   |
| BKGR-SB4 (17.5)                          | 2.2                             | 0.79   |   |
| BKGR-SB5 (10)                            | 2.7                             | 0.99   |   |
| BKGR-SB6 (18)                            | 2.4                             | 0.88   |   |
| BKGR-SB7 (24)                            | 2.5                             | 0.92   |   |
| BKGR-SB8 (5)                             | 2.0                             | 0.69   | U |
| BKGR-SB9 (5)                             | 2.0                             | 0.69   |   |
| BKGR-SB10 (20)                           | 3.7                             | 1.31   |   |
| Distribution                             |                                 | Lognormal                                      |   |
| Mean of Detects (X)                      | NA                              | 0.86   |   |
| Variance of Detects (V)                  | NA                              | 0.01   |   |
| Average Detection Limit (DL)             | NA                              | 0.69   |   |
| h  | NA                              | 0.20   |   |
| y  | NA                              | 0.25   |   |
| lambda                                   | NA                              | 0.2763   |   |
| Adjusted Mean (X*) (of ln)               | NA                              | 0.815  |   |
| Adjusted Standard Deviation (S*) (of ln) | NA                              | 0.122  |   |

mean of Detects= mean of all samples where contaminants were detected

Variance of Detects =

$h = (n-m)/n$  where  $n = \#$  of samples,  $m = \#$  of samples above detection limit

$y = V / (X-DL)(X-DL)$

lambda = Value from Appendix B, Table 7 of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities (EPA, 1989)

$X^* = X - \lambda(X-DL)$

$S^* = \text{SQRT}(V + (\lambda(X - DL)(X-DL)))$