

**Perchlorate Results for Creek Sampling
Longhorn Army Ammunition Plant, Karnack, Texas**

| Creek Sample ID | GW-Res | Mar 2008 | Jun 2008 | Sep 2008 | Dec 2008 | May 2009 | July 2009 | Aug 2009 | Sep 2009 | Dec 2009 | Mar 2010 | Jun 2010 | Sep 2010 | Dec 2010 | Mar 2011 | Jun 2011 | Sep 2011 | Dec 2011 | Mar 2012 |
|-----------------|--------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| GPW-1 | 26 | 27 | 0.5U | 0.5U | 0.22U | 16 | 4U | NS | 1.2U | 3.7 | 1.3J | 0.6U | dry | 0.1U | 8.7 | dry | dry | 1.76 | 0.163J |
| GPW-3 | 26 | 21.9 | 9.42 | 1.1 | 0.22U | 8.9 | 4U | NS | 0.6U | 2.8 | 1.8J | 0.6U | dry | 0.199J | 0.673 | dry | dry | 1.31 | 0.261 |
| HBW-1 | 26 | 0.5U | 0.5U | 0.5U | 0.22U | 0.55U | 4U | NS | 1.5U | 0.275U | 1.5U | 0.6U | dry | 0.1U | 0.2U | dry | dry | 0.1U | 0.1U |
| HBW-7 | 26 | 0.5U | 0.5U | 0.5U | 0.22U | 0.55U | 4U | 24* | 1.2U | 0.275U | 1.5U | 0.6U | dry | 0.1U | 0.2U | dry | dry | 0.171J | 0.1U |
| HBW-10 | 26 | 0.5U | 0.5U | 0.5U | 0.22U | 0.55U | 4U | NS | 1.5U | 0.275U | 1.2U | 0.6U | dry | 0.1U | 0.2U | dry | dry | 0.1U | 0.1U |

NOTES:

all units in micrograms/liter (µg/L)

* One sample taken during GWTP shutdown

U undetected

J approximate value present below normal reporting limit

GW-Res groundwater medium-specific concentration for residential use

NS not sampled

GP is Goose Prairie Creek

HB is Harrison Bayou

W is surface water

General Creek Conditions for last 7 sampling events:

September 2010 conditions: All creek sampling locations were dry in September.

December 2010 conditions: GP sampling locations some water but no visible flow; HB sampling locations plenty of water volume but very little flow

March 2011 conditions: GP sampling locations slow flow; HB sampling locations fairly good flow

June 2011 conditions: All creek sampling locations were dry in June.

September 2011 conditions: All creek sampling locations were dry in September.

December 2011 conditions: Small amount of flow at Harrison Bayou locations and no visible flow at Goose Prairie Creek locations.

March 2012 conditions: Good flow at Harrison Bayou locations and small amount of flow at Goose Prairie Creek locations.