Table 6 Chemicals of Potential Concern in North Pasture

Chemical of Potential Concern	Maximum Detected Concentration (1) (mg/kg)	CSSA Soil Background Concentration (2) (mg/kg)	Ecological Benchmark for Soil (3) (mg/kg)	Residential PCL Combined Tier 1 Soil ^{Tot} Soil _{Comb} (4) (mg/kg)	Residential PCL Groundwater Protection ^{GW} Soil _{Ing} (4) (mg/kg)
Barium	15,493	186	330 (f, h)	7,840.5 [n]	221.9 [m, >S]
Copper	1,515.6	23.2	61 (f, g)	547.6 [n]	521.2 [a, >S]
Lead	156,640	84.5	120 (f, n)	500 [n]	1.5 [a, >S] †
Zinc	406.4	73.2	120 (f, g)	9,921.5 [n]	1,180.2 [n, >S]
2,4-DNT	550		NA	6.9 [c]	0.0027 [c]

--- = Not applicable.

NA = Not available.

(1) Represents the maximum detected concentration of COPC in soil for all SWMUs in North Pasture. Highest concentrations of lead, barium, copper and zinc were at SWMU B-8; highest concentration of 2,4-DNT was at SWMU B-2.

(2) Parsons, 2002. Second Revision, Evaluation of Background Metals Concentrations in Soils and Bedrock at CSSA. February 2002.

(3) TCEQ, 2006. Update to Guidance for Conducting Ecological Risk Assessments at Remediation Sites in Texas. RG-263 (Revised). January 2006. Values from Table 3-4 (Ecological Benchmarks for Soil). Lower of the earthworm or plant benchmark is used (most conservative value). Footnotes from Table 3-4:

(f) Screening values for soil invertebrates.

(n) USEPA, 2005. Ecological Soil Screening Levels for Lead. Interim Final. OSWER Directive 9285.7-70. March 2005.

(h) USEPA, 2005. Ecological Soil Screening Levels for Barium. Interim Final. OSWER Directive 9285.7-63. February 2005.

(g) USEPA, 2000. Ecological Soil Screening Level Guidance. Draft. Office of Emergency and Remedial Response. July 10, 2000.

(4) TCEQ, 2007. TRRP Protective Concentration Levels. Tier 1 PCL Tables (revised June 26, 2007).

Values from Table 1 (^{Tot}Soil_{Comb} and ^{GW}Soil_{Ing} for a 30-acre source area).

^{Tot}Soil_{Comb} is a surface soil PCL for residential land use for combined soil ingestion, dermal contact, inhalation of volatiles and particulates, and ingestion of above-ground and below-ground vegetables.

 $^{GW}\mbox{Soil}_{Ing}$ is a PCL for surface and subsurface soil to protect groundwater.

If a chemical is both carcinogenic and noncarcinogenic, the lower of the carcinogenic or noncarcinogenic PCL values is used (most conservative value). Footnotes from Table 1:

a EPA Action Level-based.

- a EFA Action Level-bas
- c Carcinogenic.
- m Primary MCL-based.

n Noncarcinogenic.

>S Solubility limit exceeded during calculation.