

	Dioxin	HCB	Asbestos	Arsenic	Perchlorate	4,4-DDE	4,4-DDT
0.0'-0.5' :	-	-	-	-	-	-	-
0.5'-2.0' :	5,990	3.1	29 (chrysotile)	7.75	3,950	110	220
1.0'-1.5' :	8.4	66	-	-	181	<0.009	<0.009
1.5'-2.0' :	8.6	44	-	-	219	<0.009	<0.009
10'-11.5' (dup) :	-	0.3	-	2.37	4.68	0.018	0.011
10'-11.5' :	-	0.097	-	4.14	3.58	0.0046	0.0042

	Arsenic	Manganese	4,4-DDE	4,4-DDT
0.5'-2.0' :	11.1	4,800	1.3	0.72
0.5'-2.0' (dup) :	14.3	13,800	13	11
10'-11.5' :	3.99	573	0.071	<0.02

	Dioxin	HCB
0.5'-2.0' :	5,153	1.4
1.0'-1.5' :	13,000	32
1.0'-1.5' (dup) :	46,000	54
1.5'-2.0' :	26,000	22
10'-11.5' :	-	0.42

	Asbestos
0.0'-0.5' :	2 (amphibole)

	Dioxin	HCB	Arsenic	Lead	Perchlorate	Chromium	4,4-DDE	4,4-DDT	alpha-BHC
0.5'-2.0' :	1,420	2.3	11	1,880	22,800	1,470	46	66	2
0.5'-2.0' (dup) :	2,100	4.8	4.09	493	-	66.4	47	18	<0.92
1.0'-1.5' :	1,500	3.3	1.22	75.6	-	34.8	5.1	4.3	<0.09
1.5'-2.0' (dup) :	1,600	4.2	2.95	121	-	33.4	3.3	1.7	<0.09
10'-11.5' :	-	0.13	2.85	20.2	2,860	25.2	0.57	0.43	<0.05

	Dioxin	HCB	Benzo(a)pyrene
0.5'-2.0' :	6,097	1.3	0.63
0.5'-2.0' (dup) :	8,450	4.9	0.31
1.0'-1.5' :	720	0.94	<0.004
1.0'-1.5' (dup) :	700	0.49	<0.004
1.5'-2.0' :	6.3	0.33	<0.001
10'-11.5' :	-	0.3	<0.021

	HCB	4,4-DDE	4,4-DDT
0.5'-2.0' :	4.2	100	19
0.5'-2.0' (dup) :	4.3	150	23
1.0'-1.5' :	2.4	<0.19	<0.19
1.5'-2.0' :	11	<0.18	<0.18
10'-11.5' :	0.31	5.5	0.96

	Dioxin	HCB	Arsenic	Benzo(a)pyrene	Aroclor-1260
0.5'-2.0' :	17,414	3.3	385	0.24	7.9
1.0'-1.5' :	290	0.055	-	0.048	<0.43
1.5'-2.0' :	0.81	0.014	-	0.0036	<0.04
10'-11.5' :	-	<0.001	5.2	<0.0071	<0.033

	Arsenic	Lead	Aldrin
0.5'-2.0' :	21.3	2,210	61
1.0'-1.5' :	22.0	2,540	<0.064
1.5'-2.0' :	21.3	635	<0.026
10'-11.5' :	4.78	7.9	<0.001

	Dioxin	Arsenic
0.5'-2.0' :	1,323	7.8
1.0'-1.5' :	3.7	-
1.5'-2.0' :	1.2	-
10'-11.5' (dup) :	-	4.13

	Dioxin	Arsenic
0.5'-2.0' :	3,243	7.8
1.0'-1.5' :	3,200	-
1.5'-2.0' :	23	-
10'-11.5' :	-	4.16
10'-11.5' (dup) :	-	4.13

Legend

Proposed Sampling Locations

- Proposed Deeper Sampling Location
- Proposed Horizontal Delineation Sample
- Proposed Biocorrosibility Sampling Location

Existing Soil Sample Locations and Results

- Phase A Sample Location (2006)
- Phase B Sample Location (2008-2009)
- Analytes Detected Above BCL
- Impacted by compounds that exceed BCL at 2 feet bgs (2,200 ppt criteria used for Dioxin).
- Analyte Not Detected Above BCL (less than 10 ft bgs)

Parcels C,D,F,G,& H

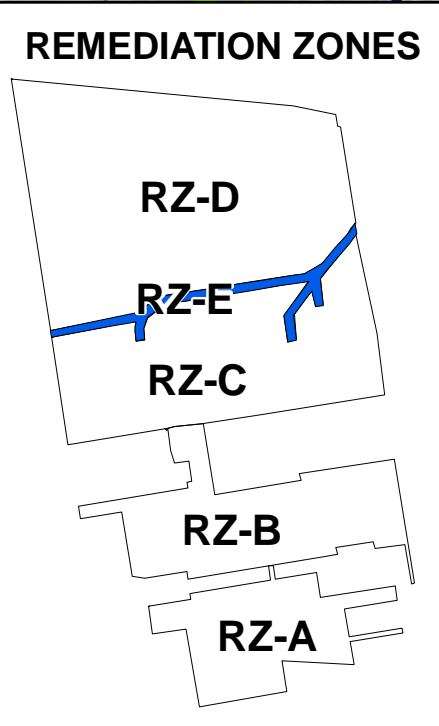
- No BCL Exceedance at 0 ft bgs
- BCL Exceedance(s) at 0 ft bgs

#24 LOU Boundaries

- Groundwater recharge trenches to be retained
- Groundwater barrier wall to be retained
- Associate LOU Pipelines
- LOU #60 Acid Drain System
- LOU #59 Storm Sewer System

Site features (Buildings and Tanks)

- Tronox Facilities to be retained
- ChemStar Property to be retained
- Proposed Scrape Areas for parcels
- Remediation Zone Boundary



Polygon Interpolation Areas (Soil less than 10 ft bgs) (Voronoi/Thiessen Polygons)

- Polygon area based on single sample location above Criteria 1*
- 1 long amphibole fiber with no other risk drivers
- Polygon area based on single sample location above Criteria 2*

*Polygon Area Exceedance Criteria

Criteria 1 [Dark Blue]: Analytes detected above NDEP Worker BCLs or following criteria:
 Arsenic greater than 18 mg/kg
 Chrysotile long fiber count greater than 13
 Amphibole long fiber count greater than 1
 Dioxin greater than 2,200 ppt

Criteria 2 [Light Blue]: Analytes detected above NDEP Worker BCLs or following criteria:
 Arsenic greater than 7.2 mg/kg and less than 18 mg/kg,
 Chrysotile long fiber count greater than 5 and less than or equal to 13,
 Dioxin greater than 1,000 ppt and less than 2,200 ppt, and/or
 low levels of PAHs

Abbreviations:

dup Field Duplicate
 HCB Hexachlorobenzene

Notes:
 Units for asbestos in number of long fibers and dioxin is parts per trillion (ppt), all other units are in milligrams per kilogram (mg/kg).

FIGURE NUMBER:
1-5
SHEET NUMBER:
1

REMEDATION ZONE E (RZ-E) BETA DITCH		
Tronox LLC Henderson, Nevada		
SCALE: 1" = 150'	DATE: 03/19/2010	PROJECT NUMBER: 2027.01

DESIGNED BY:	REVISIONS			
	NO.:	DESCRIPTION:	DATE:	BY:
DRAWN BY: NGEM				
CHECKED BY: NGEM				
APPROVED BY: NGEM				

northgate
environmental management, inc.
TRONOX
http://www.ngem.com