

I:\White Sands\GIS\ArcMap_MXD\HELI STE\2011_LTM\HELI STE_SWMU154_Data\box_VOCs.mxd - 1/25/2012 @ 11:57:54 AM

DRW-16	3/22/2011	8/30/2011
1,1-Dichloroethane	1.28	1.42
1,1-Dichloroethylene	5.9	4.08
Benzene	< 0.2	< 0.2
Naphthalene	< 5	< 5
Trichloroethylene	86.3	77.5

DRW-04	3/23/2011	9/1/2011
1,1-Dichloroethane	89.8	101
1,1-Dichloroethylene	2.8	2.87
Benzene	2.21	3.18
Naphthalene	6.95 J	9.16
Trichloroethylene	< 0.6	< 0.6

DRW-05	3/23/2011	8/31/2011
1,1-Dichloroethane	34.5	33.5
1,1-Dichloroethylene	< 0.2	< 0.2
Benzene	7.67	8.59
Naphthalene	27	25.2
Trichloroethylene	< 0.6	< 0.6

DRW-13	3/22/2011	8/31/2011
1,1-Dichloroethane	0.72 J [0.79 J]	0.98 [0.94]
1,1-Dichloroethylene	< 0.2 [<0.2]	< 0.2 [<0.2]
Benzene	< 0.2 [<0.2]	< 0.2 [<0.2]
Naphthalene	< 5 [<5]	< 5 [<5]
Trichloroethylene	0.71 J [0.73 J]	1.33 [1.3]

HCF-01	3/24/2011	9/1/2011
1,1-Dichloroethane	2.11	1.83
1,1-Dichloroethylene	< 0.2	< 0.2
Benzene	9.35	7.53
Naphthalene	59.4	41.2
Trichloroethylene	< 0.6	< 0.6

DRW-12	3/22/2011	8/31/2011
1,1-Dichloroethane	0.41 J	0.9
1,1-Dichloroethylene	< 0.2	< 0.2
Benzene	< 0.2	< 0.2
Naphthalene	< 5	< 5
Trichloroethylene	7.1	6.8

Groundwater Standards		
Analyte	Standard Name	Standard Value
1,1-Dichloroethane	NMED_GW	25 µg/L
1,1-Dichloroethylene	NMED_GW	5 µg/L
Benzene	EPA_MCL_GW	5 µg/L
Naphthalene	NMED_Tapwater_09	1.43 µg/L
Trichloroethylene	EPA_MCL_GW	5 µg/L

- LEGEND**
- WELLS SCREENED IN THE REGIONAL AQUIFER
 - WELLS SCREENED IN THE VAPOSE AQUIFER
 - SWMU BOUNDARY
 - SITE FEATURES
 - PAVED ROAD
 - BUILDING
 - DIRT ROAD
 - FENCE

- NOTES:**
- DATA PRESENTED ARE GROUNDWATER SAMPLES COLLECTED BY ARCADIS IN 2011.
 - YELLOW HIGHLIGHT INDICATES EITHER THE REPORTED RESULT EXCEEDS THE PUBLISHED SCREENING LEVEL OR THE DETECTION RESULT EXCEEDS THE PUBLISHED SCREENING LEVEL.
 - BOLD FONT INDICATES THE REPORTED RESULT IS ABOVE THE METHOD DETECTION LIMIT (MDL) AND IS A DETECTED RESULT.
 - SCREENING CRITERIA CONSIST OF THE LOWER VALUE BETWEEN THE USEPA MCL (2009) AND NMED WQCC STANDARD (2004). IF NO MCL OR WQCC STANDARD WAS AVAILABLE FOR AN ANALYTE, THE NMED OR EPA TAPWATER SCREENING LEVEL (2009) WAS USED, IF AVAILABLE.
 - ALL GROUNDWATER RESULTS ARE REPORTED IN µg/L (MICROGRAMS PER LITER).
 - BRACKETS INDICATE THAT THE RESULT SHOWN IS FROM A DUPLICATE FIELD SAMPLE.
 - ONLY THOSE ANALYTES WITH AT LEAST ONE DETECTED EXCEEDANCE OF THE SCREENING CRITERIA ARE SHOWN.

USEPA: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
MCL: MAXIMUM CONTAMINANT LEVEL
NMED: NEW MEXICO ENVIRONMENT DEPARTMENT
WQCC: WATER QUALITY CONTROL COMMISSION
EPA_MCL_GW: USEPA MAXIMUM CONTAMINANT LEVEL, AS DEFINED IN 40 CODE OF FEDERAL REGULATIONS, PART 141.
NMED_GW: NMED WATER QUALITY CONTROL COMMISSION (WQCC) STANDARD, 1995, PART OF THE NEW MEXICO ADMINISTRATIVE CODE (NMAC), TITLE 20, CHAPTER 6, PART 2 (ENVIRONMENTAL PROTECTION WATER QUALITY GROUND AND SURFACE WATER PROTECTION: 20.6.2.3103, STANDARDS FOR GROUND WATER OF 10,000 mg/L TDS CONCENTRATION OR LESS). (WQCC ADOPTED STANDARDS FOR NMED GROUNDWATER QUALITY BUREAU (GWQB) EXCEPT FOR MTBE AND FREE PRODUCT).
NMED_TAPWATER_09: NMED TAPWATER SCREENING LEVEL, NMED, 2009.
TECHNICAL BACKGROUND DOCUMENT FOR DEVELOPMENT OF SOIL SCREENING LEVELS, REVISION 5.0, NMED HAZARDOUS WASTE BUREAU AND GROUND WATER QUALITY BUREAU, VOLUNTARY REMEDIATION PROGRAM, AUGUST

TDS: TOTAL DISSOLVED SOLIDS
MTBE: METHYL TERT BUTYL ETHER
MGL: MILLIGRAM PER LITER
VOCs: VOLATILE ORGANIC COMPOUNDS
J: INDICATES AN ESTIMATED VALUE
<: SAMPLE RESULTS WAS NOT DETECTED AT LABORATORY REPORTING LIMIT SHOWN

SOURCE: BASE MAP PROVIDED BY ZIA AND RECTIFIED TO DECEMBER 2008 SATELLITE IMAGE.



WHITE SANDS MISSILE RANGE
NEW MEXICO
SWMU 154 - HELSTF SYSTEMIC DIESEL SPILL SITE

**EXCEEDANCES OF GROUNDWATER STANDARDS
VOCs**

FIGURE