

TABLES

**TABLE 4.1 SAMPLE FIELD PARAMETERS FOR SHALLOW GROUNDWATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

Sample ID	Associated Well ID	Collection Date ¹	Temperature (°C)	Dissolved Oxygen (DO) ²	Specific Conductivity (SC) ³	pH	Analytical Suite
GW-S01	SW-1	01/09/2008	17.2	0.4	14	6.47	Perchlorate, Explosives, RCRA metals, and Mercury
GW-S02	SW-2	01/11/2008	17.2	0.4	7	5.58	Perchlorate, Explosives, RCRA metals, and Mercury
GW-S03	SW-3	01/11/2008	17.1	2.4	10	4.97	Perchlorate, Explosives, RCRA metals, and Mercury
GW-S04	SW-4	01/11/2008	15.9	3.2	5	4.72	Perchlorate, Explosives, RCRA metals, and Mercury
GW-S05	SW-5	01/10/2008	18.7	1.5	7	5.00	Perchlorate, Explosives, RCRA metals, and Mercury

¹ Final groundwater quality parameters measured immediately before sample collection.

² (mg/L)

³ (ms/cm)

**TABLE 4.1 SAMPLE FIELD PARAMETERS FOR SHALLOW GROUNDWATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

Sample ID	Associated Well ID	Collection Date ¹	Temperature (°C)	Dissolved Oxygen (DO)	Specific Conductivity (SC)	pH	Analytical Suite
GW-S06	SW-6	01/10/2008	17.9	3.0	12	4.87	Perchlorate, Explosives, RCRA metals, and Mercury
GW-S07	SW-7	01/10/2008	18.9	5.5	5	4.78	Perchlorate, Explosives, RCRA metals, and Mercury
GW-S08	SW-8	01/07/2008	19.9	1.1	10	5.40	Perchlorate, Explosives, RCRA metals, and Mercury
GW-S09	SW-9	01/09/2008	17.8	0.4	10	5.81	Perchlorate, Explosives, RCRA metals, and Mercury
GW-S10	SW-10	01/08/2008	17.2	2.6	13	4.92	Perchlorate, Explosives, RCRA metals, and Mercury

¹ Final groundwater quality parameters measured immediately before sample collection.

**TABLE 4.2 SAMPLE FIELD PARAMETERS FOR DEEP GROUNDWATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

Sample ID	Associated Well ID	Collection Date ¹	Temperature (°C)	Dissolved Oxygen (DO) ²	Specific Conductivity (SC) ³	pH	Analytical Suite
GW-D01 GW-D022 Matrix Spike	DW-1	01/09/2008	18.7	0.5	32	7.82	Perchlorate, Explosives, RCRA metals, and Mercury
GW-D02	DW-2	01/09/2008	17.6	0.3	25	6.99	Perchlorate, Explosives, RCRA metals, and Mercury
GW-D02L GW-D21	DW-2L	01/09/2008	18.4	0.8	29	8.14	Perchlorate, Explosives, RCRA metals, and Mercury
GW-D03	DW-3	01/07/2008	20.1	0.4	32	6.95	Perchlorate, Explosives, RCRA metals, and Mercury
GW-D03L	DW-3L	01/07/2008	19.6	0.3	0.15	11.79	Perchlorate, Explosives, RCRA metals, and Mercury

¹ Final groundwater quality parameters measured immediately before sample collection.

² (mg/L)

³ (ms/cm)

**TABLE 4.2 SAMPLE FIELD PARAMETERS FOR DEEP GROUNDWATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

Sample ID	Associated Well ID	Collection Date ¹	Temperature (°C)	Dissolved Oxygen (DO)	Specific Conductivity (SC)	pH	Analytical Suite
GW-D04	DW-4	01/10/2008	18.5	0.4	33	7.75	Perchlorate, Explosives, RCRA metals, and Mercury
GW-D04L	DW-4L	01/10/2008	18.0	0.4	30	8.40	Perchlorate, Explosives, RCRA metals, and Mercury
GW-D05	DW-5	01/08/2008	17.9	3.4	45	7.09	Perchlorate, Explosives, RCRA metals, and Mercury
GW-D06	DW-6	01/08/2008	18.6	0.6	19	6.29	Perchlorate, Explosives, RCRA metals, and Mercury
GW-D07	DW-7	01/08/2008	18.7	0.4	28	7.60	Perchlorate, Explosives, RCRA metals, and Mercury

¹ Final groundwater quality parameters measured immediately before sample collection.

² (mg/L)

³ (ms/cm)

**TABLE 4.3 SAMPLE FIELD PARAMETERS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

Sample ID	Collection Date	Collection Time	Latitude	Longitude	Flow	pH	Analytical Suite
SW-01	02/14/2008	0955	33.66699	92.72914	Laminar	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-02	02/14/2008	1015	33.67849	92.69971	Laminar	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-03	02/14/2008	0935	33.66600	92.66472	No Flow Pond	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-04	02/14/2008	0835	33.64920	92.69259	Laminar	5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-05	02/14/2008	0850	33.64985	92.78198	Turbulent	5	Perchlorate, Explosives, RCRA metals, and Mercury

**TABLE 4.3 SAMPLE FIELD PARAMETERS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

Sample ID	Collection Date ¹	Collection Time	Latitude	Longitude	Flow	pH	Analytical Suite
SW-06 SW-35	02/11/2008	1720 1740	33.64118	92.69903	No Flow Pond	6	Perchlorate, Explosives, RCRA metals, and Mercury
SW-07	02/11/2008	1652	33.61979	92.69258	Laminar	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-08	02/11/2008	1633	33.62968	92.70919	Laminar	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-09	02/11/2008	1540	33.02114	96.77197	Laminar	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-10 SW-39	02/13/2008	1255 1310	33.58149	92.71022	Turbulent	5.5	Perchlorate, Explosives, RCRA metals, and Mercury

**TABLE 4.3 SAMPLE FIELD PARAMETERS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

Sample ID	Collection Date ¹	Collection Time	Latitude	Longitude	Flow	pH	Analytical Suite
SW-11	02/13/2008	1425	33.58487	92.69367	Turbulent	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-12	02/13/2008	1400	33.56212	92.70365	Laminar	6	Perchlorate, Explosives, RCRA metals, and Mercury
SW-13	02/13/2008	1227	33.55780	92.67657	Turbulent	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-14	02/13/2008	1150	33.56278	92.66445	Turbulent	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-15	02/13/2008	1205	33.58613	92.65810	Turbulent	5.5	Perchlorate, Explosives, RCRA metals, and Mercury

**TABLE 4.3 SAMPLE FIELD PARAMETERS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

Sample ID	Collection Date ¹	Collection Time	Latitude	Longitude	Flow	pH	Analytical Suite
SW-16	02/14/2008	0915	33.66195	92.65318	Turbulent	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-17 SW-38	02/13/2008	1110 1120	33.58072	92.61765	Turbulent	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-18	02/13/2008	0930	33.61042	92.67501	No Flow Pond	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-19	02/13/2008	0955	33.62444	92.66663	Turbulent	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-20 Matrix Spike	02/12/2008	1430	33.62996	92.63850	Turbulent	5.0	Perchlorate, Explosives, RCRA metals, and Mercury

**TABLE 4.3 SAMPLE FIELD PARAMETERS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

Sample ID	Collection Date¹	Collection Time	Latitude	Longitude	Flow	pH	Analytical Suite
SW-21	02/13/2008	0910	33.61580	92.62159	Turbulent	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-22	02/13/2008	0855	33.61982	92.59061	Turbulent	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-23	02/13/2008	0800	33.63424	92.60504	Turbulent	5.0	Perchlorate, Explosives, RCRA metals, and Mercury
SW-24	02/13/2008	0820	33.65083	92.58560	Laminar	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-25	02/12/2008	1405	33.66411	92.62286	Turbulent	5.5	Perchlorate, Explosives, RCRA metals, and Mercury

**TABLE 4.3 SAMPLE FIELD PARAMETERS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

Sample ID	Collection Date ¹	Collection Time	Latitude	Longitude	Flow	pH	Analytical Suite
SW-26	02/12/2008	1315	33.68952	92.61390	No Flow Pond	6	Perchlorate, Explosives, RCRA metals, and Mercury
SW-27 SW-37	02/12/2008	1217 1230	33.68911	92.58646	Laminar	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-28 SW-36	02/12/2008	1120 1140	33.67506	92.53937	No Flow Pond	6	Perchlorate, Explosives, RCRA metals, and Mercury
SW-29	02/12/2008	1100	33.16734	92.53937	No Flow Pond	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-30	02/12/2008	0945	Error ¹	Error ¹	No Flow Pond	5.5	Perchlorate, Explosives, RCRA metals, and Mercury

¹ Instrument error encountered. Global Positioning System (GPS) data not collected.

**TABLE 4.3 SAMPLE FIELD PARAMETERS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

Sample ID	Collection Date ¹	Collection Time	Latitude	Longitude	Flow	pH	Analytical Suite
SW-31	02/12/2008	1035	Error ¹	Error ¹	Laminar	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-32	02/12/2008	1012	Error ¹	Error ¹	Laminar	5.5	Perchlorate, Explosives, RCRA metals, and Mercury
SW-33	02/12/2008	0815	33.64164	92.69931	Laminar	6	Perchlorate, Explosives, RCRA metals, and Mercury
SW-34	02/12/2008	0915	33.68943	92.48140	Laminar	7	Perchlorate, Explosives, RCRA metals, and Mercury

¹ Instrument error encountered. Global Positioning System (GPS) data not collected.

**TABLE 4.4 WATER LEVEL READING
SHUMAKER NAVAL AMMUNITION DEPOT**

Well ID	Static Water Level¹ (feet bgs)
DW-01	27.95
DW-02	8.65
DW-02L	32.17
DW-03	9.57
DW-03L	31.20
DW-04	8.73
DW-04L	29.95
DW-05	25.25
DW-06	36.25
DW-07	17.00
SW-01	22.55
SW-02	5.12
SW-03	10.60
SW-04	5.83
SW-05	4.90
SW-06	5.67
SW-07	10.16
SW-08	5.87
SW-09	9.30
SW-10	6.05

¹ All static water levels measured on May 19, 2008.

**TABLE 5.1 SAMPLE INFORMATION
SHUMAKER NAVAL AMMUNITION DEPOT**

SAMPLE ID	LABORATORY SAMPLE NUMBER	DATE SAMPLED	TIME SAMPLED	DATE ANALYZED	TIME ANALYZED	ANALYTICAL METHOD
GW-D01	D8A110236005	01/09/2008	1505	01/18/2008	2009	SW6860
				01/15/2008	1851	SW6010B
				01/16/2008	1408	SW7470A
				01/15/2008	1822	SW8330
GW-D22	D8A110236004	01/09/2008	1300	01/18/2008	1942	SW6860
				01/15/2008	1924	SW6010B
				01/16/2008	1406	SW7470A
				01/15/2008	1745	SW8330
GW-D02	D8A110236001	01/09/2008	0928	01/18/2008	1821	SW6860
				01/15/2008	1910	SW6010B
				01/16/2008	1359	SW7470A
				01/15/2008	1517	SW8330
GW-D02L	D8A110236002	01/09/2008	1105	01/18/2008	1848	SW6860
				01/15/2008	1915	SW6010B
				01/16/2008	1401	SW7470A
				01/15/2008	1554	SW8330
GW-D21	D8A110236003	01/09/2008	1434	01/18/2008	1915	SW6860
				01/15/2008	1919	SW6010B
				01/16/2008	1404	SW7470A
				01/15/2008	1708	SW8330
GW-D03	D8A120180002	01/07/2008	1605	01/18/2008	1239	SW6860
				01/11/2008	1555	SW6010B
				01/10/2008	1520	SW7470A
				01/15/2008	1212	SW8330
				01/16/2008	1515	SW8330
GW-D03L	D8A090200002	01/07/2008	1700	01/18/2008	1413	SW6860
				01/11/2008	1615	SW6010B
				01/10/2008	1522	SW7470A
				01/15/2008	1249	SW8330
				01/16/2008	1552	SW8330
GW-D04	D8A120180004	01/10/2008	1055	01/19/2008	0105	SW6860
				01/16/2008	1705	SW6010B
				01/16/2008	1508	SW7470A
				01/22/2008	0044	SW8330
GW-D04L	D8A120180005	01/10/2008	0935	01/19/2008	0132	SW6860
				01/16/2008	1710	SW6010B
				01/16/2008	1511	SW7470A
				01/18/2008	1627	SW8330
GW-D05	D8A100295004	01/08/2008	1526	01/18/2008	1754	SW6860
				01/11/2008	1650	SW6010B
				01/16/2008	1347	SW7470A
				01/15/2008	0057	SW8330
GW-D06	D8A100295001	01/08/2008	1057	01/18/2008	1516	SW6860
				01/11/2008	1625	SW6010B
				01/16/2008	1341	SW7470A
				01/14/2008	2306	SW8330
GW-D07	D8A100295002	01/08/2008	0848	01/18/2008	1548	SW6860
				01/11/2008	1630	SW6010B
				01/16/2008	1343	SW7470A
				01/14/2008	2343	SW8330

**TABLE 5.1 SAMPLE INFORMATION
SHUMAKER NAVAL AMMUNITION DEPOT**

SAMPLE ID	LABORATORY SAMPLE NUMBER	DATE SAMPLED	TIME SAMPLED	DATE ANALYZED	TIME ANALYZED	ANALYTICAL METHOD
GW-S01	D8A110236006	01/09/2008	1710	01/18/2008	2223	SW6860
				01/15/2008	1938	SW6010B
				01/16/2008	1415	SW7470A
				01/15/2008	2013	SW8330
GW-S02	D8A120180001	01/11/2008	1030	01/18/2008	2344	SW6860
				01/16/2008	1635	SW6010B
				01/16/2008	1501	SW7470A
				01/21/2008	2253	SW8330
GW-S03	D8A120180002	01/11/2008	0940	01/19/2008	0011	SW6860
				01/16/2008	1655	SW6010B
				01/16/2008	1504	SW7470A
				01/21/2008	2330	SW8330
GW-S04	D8A120180003	01/11/2008	0825	01/19/2008	0038	SW6860
				01/16/2008	1700	SW6010B
				01/16/2008	1506	SW7470A
				01/22/2008	0007	SW8330
GW-S05	D8A120180006	01/10/2008	1212	01/19/2008	0159	SW6860
				01/16/2008	1724	SW6010B
				01/10/2008	1513	SW7470A
				01/22/2008	0158	SW8330
GW-S06	D8A120180007	01/10/2008	1550	01/22/2008	1555	SW6860
				01/16/2008	1729	SW6010B
				01/16/2008	1520	SW7470A
				01/22/2008	0235	SW8330
GW-S07	D8A12180008	01/10/2008	1405	01/22/2008	1622	SW6860
				01/16/2008	1734	SW6010B
				01/16/2008	1522	SW7470A
				01/22/2008	0312	SW8330
GW-S08	D8A090200003	01/07/2008	1758	01/18/2008	1445	SW6860
				01/11/2008	1620	SW6010B
				01/10/2008	1527	SW7470A
				01/15/2008	1326	SW8330
				01/16/2008	1629	
GW-S09	D8A110236008	01/09/2008	1225	01/18/2008	2317	SW6860
				01/15/2008	1948	SW6010B
				01/16/2008	1424	SW7470A
				01/15/2008	2127	SW8330
GW-S10	D8A100295005	01/08/2008	1730	01/18/2008	1825	SW6860
				01/11/2008	1655	SW6010B
				01/16/2008	1350	SW7470A
				01/15/2008	0134	SW8330
SW-01	D8B15018809	02/14/2008	0955	02/27/2008	1132	SW6860
				2/21/2008	1638	SW6010B
				02/18/2008	2203	SW7470A
				2/22/2008	0214	SW8330
SW-02	D8B150188010	02/14/2008	1015	02/27/2008	1201	SW6860
				02/21/2008	1643	SW6010B
				02/18/2008	2205	SW7470A
				02/22/2005	0235	SW8330
SW-03	D8B150188011	02/14/2008	0935	02/27/2008	1230	SW6860
				02/21/2008	1648	SW6010B
				02/18/2008	2212	SW7470A
				02/22/2008	0338	SW8330
SW-04	D8B150188005	02/14/2008	0835	02/27/2008	2233	SW6860
				02/21/2008	1608	SW6010B
				02/18/2008	2153	SW7470A
				02/22/2008	0050	SW8330

**TABLE 5.1 SAMPLE INFORMATION
SHUMAKER NAVAL AMMUNITION DEPOT**

SAMPLE ID	LABORATORY SAMPLE NUMBER	DATE SAMPLED	TIME SAMPLED	DATE ANALYZED	TIME ANALYZED	ANALYTICAL METHOD
SW-05	D8B150188004	02/14/2008	0850	02/27/2008	0810	SW6860
				02/21/2008	1602	SW6010B
				02/18/2008	2151	SW7470A
				02/22/2008	0029	SW8330
SW-06	D8B130274005	02/11/2008	1720	02/21/2008	2326	SW6860
				02/20/2008	1651	SW6010B
				02/18/2008	2351	SW7470A
				02/20/2008	1356	SW8330
SW-35	D8B130274006	02/11/2008	1740	02/22/2008	1350	SW8330
				02/21/2008	2351	SW6860
				02/20/2008	1656	SW6010B
				02/18/2008	2354	SW7470A
SW-07	D8B130274002	02/11/2008	1652	02/20/2008	1417	SW8330
				02/22/2008	1411	SW8330
				02/21/2008	2211	SW6860
				02/20/2008	1635	SW6010B
SW-08	D8B130274004	02/11/2008	1633	02/18/2008	2340	SW7470A
				02/22/2008	1247	SW8330
				02/25/2008	1401	SW8330
				02/21/2008	2301	SW6860
SW-09	D8B130274001	02/11/2008	1540	02/20/2008	1646	SW6010B
				02/18/2008	2349	SW7470A
				02/20/2008	1714	SW8330
				02/22/2008	1329	SW8330
SW-10	D8B150188017	02/13/2008	1255	02/21/2008	2007	SW6860
				02/20/2008	1630	SW6010B
				02/18/2008	2337	SW7470A
				02/20/2008	1335	SW8330
SW-39	D8B150188016	02/13/2008	1310	02/22/2008	1226	SW8330
				02/27/2008	1713	SW6860
				02/21/2008	1806	SW6010B
				02/18/2008	2226	SW7470A
SW-11	D8B150188021	02/13/2008	1425	02/22/2008	0544	SW8330
				02/27/2008	1455	SW6860
				02/21/2008	1750	SW6010B
				02/18/2008	2223	SW7470A
SW-12	D8B150188020	02/13/2008	1400	02/22/2008	0523	SW8330
				02/27/2008	1911	SW6860
				02/21/2008	1826	SW6010B
				02/18/2008	2035	SW7470A
SW-13	D8B150188015	02/13/2008	1227	02/21/2008	2059	SW8330
				02/22/2008	2317	SW8330
				02/27/2008	1842	SW6860
				02/21/2008	1821	SW6010B
SW-14	D8B150188019	02/13/2008	1150	02/18/2008	2028	SW7470A
				02/22/2008	0647	SW8330
				02/27/2008	1426	SW6860
				02/21/2008	1745	SW6010B
SW-15	D8B150188018	02/13/2008	1205	02/18/2008	2221	SW7470A
				02/22/2008	0502	SW8330
				02/27/2008	1813	SW6860
				02/21/2008	1816	SW6010B
SW-15	D8B150188018	02/13/2008	1205	02/18/2008	2026	SW7470A
				02/22/2008	0626	SW8330
				02/27/2008	1744	SW6860
				02/21/2008	1811	SW6010B
SW-15	D8B150188018	02/13/2008	1205	02/18/2008	2228	SW7470A
				02/22/2008	0605	SW8330

**TABLE 5.1 SAMPLE INFORMATION
SHUMAKER NAVAL AMMUNITION DEPOT**

SAMPLE ID	LABORATORY SAMPLE NUMBER	DATE SAMPLED	TIME SAMPLED	DATE ANALYZED	TIME ANALYZED	ANALYTICAL METHOD
SW-16	D8B150188006	02/14/2008	0914	02/27/2008	0908	SW6860
				02/21/2008	1623	SW6010B
				02/18/2008	2156	SW7470A
				02/22/2008	0111	SW8330
SW-17	D8B150188013	02/13/2008	1110	02/27/2008	1328	SW6860
				02/21/2008	1735	SW6010B
				02/18/2008	2216	SW7470A
				02/22/2008	0420	SW8330
SW-38	D8B150188012	02/13/2008	1120	02/27/2008	1259	SW6860
				02/21/2008	1714	SW6010B
				02/18/2008	2214	SW7470A
				02/22/2008	0359	SW8330
SW-18	D8B150188007	02/13/2008	0930	02/27/2008	0937	SW6860
				02/21/2008	1628	SW6010B
				02/18/2008	2158	SW7470A
				02/22/2008	0132	SW8330
SW-19	D8B150188014	02/13/2008	0955	02/27/2008	1357	SW6860
				02/21/2008	1740	SW6010B
				02/18/2008	2219	SW7470A
				02/22/2008	0441	SW8330
SW-20 Matrix Spike	D8B140258012	02/12/2008	1430	02/26/2008	1105	SW6860
				02/20/2008	1832	SW6010B
				02/18/2008	2242	SW7470A
				02/20/2008	2250	SW8330
				02/22/2008	2029	
SW-21	D8B150188008	02/13/2008	0910	02/27/2008	1103	SW6860
				02/21/2008	1633	SW6010B
				02/18/2008	2200	SW7470A
				02/22/2008	0153	SW8330
SW-22	D8B150188022	02/13/2008	0855	02/27/2008	1939	SW6860
				02/21/2008	1831	SW6010B
				02/18/2008	2037	SW7470A
				02/21/2008	2120	SW8330
				02/22/2008	2338	
SW-23	D8B150188003	02/13/2008	0800	02/27/2008	0643	SW6860
				02/21/2008	1557	SW6010B
				02/18/2008	2149	SW7470A
				02/22/2008	0008	SW8330
SW-24	D8B150188001	02/13/2008	0820	02/26/2008	1342	SW6860
				02/21/2008	1532	SW6010B
				02/18/2008	2139	SW7470A
				02/21/2008	2326	SW8330
SW-25	D8B140258013	02/12/2008	1405	02/26/2008	1239	SW6860
				02/20/2008	1837	SW6010B
				02/18/2008	2249	SW7470A
				02/20/2008	2353	SW8330
				02/22/2008	2132	
SW-26	D8B140258014	02/12/2008	1315	02/26/2008	1311	SW6860
				02/20/2008	1842	SW6010B
				02/18/2008	2251	SW7470A
				02/21/2008	0014	SW8330
02/22/2008	2153					

**TABLE 5.1 SAMPLE INFORMATION
SHUMAKER NAVAL AMMUNITION DEPOT**

SAMPLE ID	LABORATORY SAMPLE NUMBER	DATE SAMPLED	TIME SAMPLED	DATE ANALYZED	TIME ANALYZED	ANALYTICAL METHOD
SW-27	D8B140248010	02/12/2008	1217	02/26/2008	0756	SW6860
				02/20/2008	1806	SW6010B
				02/19/2008	0022	SW7470A
				02/20/2008	2044	SW8330
				02/22/2008	1823	
SW-37	D8B140258011	02/12/2008	1230	02/26/2008	0930	SW6860
				02/20/2008	1826	SW6010B
				02/18/2008	2240	SW7470A
				02/20/2008	2229	SW8330
				02/22/2008	2008	
SW-28	D8B140258007	02/12/2008	1120	02/26/2008	0621	SW6860
				02/20/2008	1741	SW6010B
				02/19/2008	0015	SW7470A
				02/20/2008	1941	SW8330
				02/22/2008	1720	
SW-36	D8B140258008	02/12/2008	1140	02/26/2008	0653	SW6860
				02/20/2008	1746	SW6010B
				02/19/2008	0017	SW7470A
				02/20/2008	2002	SW8330
				02/22/2008	1741	
SW-29	D8B140258002	02/12/2008	1100	02/26/2008	0241	SW6860
				02/20/2008	1706	SW6010B
				02/18/2008	2358	SW7470A
				02/20/2008	1632	SW8330
				02/22/2008	1453	
SW-30	D8B140258004	02/12/2008	0945	02/26/2008	0344	SW6860
				02/20/2008	1726	SW6010B
				02/19/2008	0003	SW7470A
				02/20/2008	1838	SW8330
				02/22/2008	1617	
SW-31	D8B140258001	02/12/2008	1035	02/26/2008	0209	SW6860
				02/20/2008	1701	SW6010B
				02/18/2008	2356	SW7470A
				02/20/2008	1438	SW8330
				02/22/2008	1432	
SW-32	D8B140258003	02/12/2008	1012	02/26/2008	0312	SW6860
				02/20/2008	1721	SW6010B
				02/19/2008	0001	SW7470A
				02/20/2008	1817	SW8330
				02/22/2008	1556	
SW-33	D8B140258005	02/12/2008	0815	02/26/2008	0415	SW6860
				02/20/2008	1731	SW6010B
				02/19/2008	0005	SW7470A
				02/20/2008	1859	SW8330
				02/22/2008	1638	
SW-34	D8B140258006	02/12/2008	0915	02/26/2008	0550	SW6860
				02/20/2008	1736	SW6010B
				02/19/2008	0012	SW7470A
				02/20/2008	1920	SW8330
				02/22/2008	1659	

**TABLE 5.2 SUMMARY OF ANALYTICAL RESULTS FOR QUALITY CONTROL SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	FB-01 ³ D8A110236007 (µg/l)	Equipment Blank ³ D8A100295003 (µg/l)	FB-01 ⁴ D8B140258009 (µg/l)	EB-01 ⁴ D8B130274003 (µg/l)	EB-02 ⁴ D8B150188002 (µg/l)
Perchlorate	14797-73-0	SW6860	26.0	26.0	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RCRA Metals									
Arsenic	7440-38-2	SW6010B	0.045	0.045	15 U	15 U	15 U	15 U	15 U
Barium	7440-39-3	SW6010B	7,300.0	2,000.0	10 U	10 U	10 U	10 U	10 U
Cadmium	7440-43-9	SW6010B	18.0	18.0	5 U	5 U	5 U	<0.65 J	5 U
Chromium	7440-47-3	SW6010B	110.0 ³	110.0 ³	10 U	10 U	10 U	10 U	10 U
Lead	7439-92-1	SW6010B	----	15.0	9 U	9 U	9 U	9 U	9 U
Selenium	7782-49-2	SW6010B	180.0	180.0	15 U	15 U	15 U	15 U	15 U
Silver	7440-22-4	SW6010B	180.0	180.0	10 U	10 U	10 U	10 U	10 U
Mercury	7439-97-6	SW7470A	----	11.0	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Collected during the shallow and deep groundwater monitoring well sampling event.

⁴ Collected during the surface water sampling event.

NOTE: U – undetected J – estimated UJ – non-detect result is estimated. E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.2 SUMMARY OF ANALYTICAL RESULTS FOR QUALITY CONTROL SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	FB-01 ³ D8A110236007 (µg/l)	Equipment Blank ³ D8A100295003 (µg/l)	FB-01 ⁴ D8B140258009 (µg/l)	EB-01 ⁴ D8B130274003 (µg/l)	EB-02 ⁴ D8B150188002 (µg/l)
Explosives									
1,3,5-Trinitrobenzene	99-35-4	SW8330	1,100.0	1,100.0	1 U	1 U	1 U	1 U	1 U
1,3-Dinitrobenzene	99-65-0	SW8330	3.70	3.70	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2,4,6-Trinitrotoluene	118-96-7	SW8330	2.20	2.20	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2,4-Dinitrotoluene	121-14-2	SW8330	73.0	73.0	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2,6-Dinitrotoluene	606-20-2	SW8330	37.0	37.0	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
o-Nitrotoluene	88-72-2	SW8330	61.0	370.0	0.36 J	0.4 U	0.4 U	0.4 U	0.4 U
m-Nitrotoluene	99-08-1	SW8330	----	120.0	0.43	0.4 U	0.4 U	0.4 U	0.4 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
p-Nitrotoluene	99-99-0	SW8330	----	4.00	0.39 J	1 U	1 U	1 U	1 U
HMX	2691-41-0	SW8330	1,800.0	1,800.0	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Nitrobenzene	98-95-3	SW8330	3.50	3.40	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Nitroglycerin	55-63-0	SW8330	3.70	----	3 U	3 U	3 U	3 U	3 U
PETN	78-11-5	SW8330	----	----	2 U	2 U	2 U	2 U	2 U
RDX	121-82-4	SW8330	0.61	0.61	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetryl	479-45-8	SW8330	150.0	----	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Collected during the shallow and deep groundwater monitoring well sampling event.

⁴ Collected during the surface water sampling event.

NOTE: U – undetected J – estimated UJ – non-detect result is estimated. E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.3 SUMMARY OF EXCEEDANCES FOR SURFACE GROUNDWATER WELL SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

Contaminant	Frequency of Detection	Screening Concentrations		Laboratory ID	Well ID	Concentration (µg/L)
		EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSSL tap water levels ² (µg/l)			
Arsenic	3/10	0.045	0.045	D8A120180001	GW-S02	16
				D8A120180008	GW-S07	29
				D8A090200003	GW-S08	21
Lead	5/10	---	15.0	D8A120180001	GW-S02	29
				D8A120180003	GW-S04	21
				D8A120180008	GW-S07	41
				D8A090200003	GW-S08	37 J
				D8A110236008	GW-S09	22

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria

**TABLE 5.4 SUMMARY OF ANALYTICAL RESULTS FOR SHALLOW GROUNDWATER WELL SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	GW-S01 D8A110236006 (µg/l)	GW-S02 D8A120180001 (µg/l)	GW-S03 D8A120180002 (µg/l)	GW-S04 D8A120180003 (µg/l)	GW-S05 D8A120180006 (µg/l)
Perchlorate	14797-73-0	SW6860	26.0	26.0	0.1 U	0.082 J	0.047 J	0.14	0.57
RCRA Metals									
Arsenic	7440-38-2	SW6010B	0.045	0.045	15 U	16	15 U	<10	15 U
Barium	7440-39-3	SW6010B	7,300.0	2,000.0	88	290	86	190	140
Cadmium	7440-43-9	SW6010B	18.0	18.0	5 U	5 U	5 U	5 U	5 U
Chromium	7440-47-3	SW6010B	110.0 ³	110.0 ³	<8.6	52	<4.7	36	12
Lead	7439-92-1	SW6010B	---	15.0	<4.8	29	<4.4	21	<7.4
Selenium	7782-49-2	SW6010B	180.0	180.0	15 U	<6.7	15 U	15 U	15 U
Silver	7440-22-4	SW6010B	180.0	180.0	10 U	10 U	10 U	10 U	10 U
Mercury	7439-97-6	SW7470A	---	11.0	<0.028	<0.14	0.2 U	<0.077	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.4 SUMMARY OF ANALYTICAL RESULTS FOR SHALLOW GROUNDWATER WELL SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	GW-S06 D8A120180007 (µg/l)	GW-S07 D8A120180008 (µg/l)	GW-S08 D8A090200003 (µg/l)	GW-S09 D8A110236008 (µg/l)	GW-S10 D8A100295005 (µg/l)
Perchlorate	14797-73-0	SW6860	26.0	26.0	0.12	0.25	0.039 J	0.1 U	0.035 J
RCRA Metals									
Arsenic	7440-38-2	SW6010B	0.045	0.045	15 U	29	21	<9.1	<13
Barium	7440-39-3	SW6010B	7,300.0	2,000.0	99	250	340	230	160
Cadmium	7440-43-9	SW6010B	18.0	18.0	5 U	5 U	<1.3	5 U	<0.71
Chromium	7440-47-3	SW6010B	110.0 ³	110.0 ³	<6.3	74	72	43	17
Lead	7439-92-1	SW6010B	---	15.0	<3.3	41	37 J	22	12 J
Selenium	7782-49-2	SW6010B	180.0	180.0	15 U	15 U	15 U	15 U	15 U
Silver	7440-22-4	SW6010B	180.0	180.0	10 U	10 U	10 U	10 U	10 U
Mercury	7439-97-6	SW7470A	---	11.0	0.2 U	<0.09	0.35	<0.12	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.4 SUMMARY OF ANALYTICAL RESULTS FOR SHALLOW GROUNDWATER WELL SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	GW-S01 D8A110236006 (µg/l)	GW-S02 D8A120180001 (µg/l)	GW-S03 D8A120180002 (µg/l)
Explosives							
1,3,5- Trinitrobenzene	99-35-4	SW8330	1,100.0	1,100.0	1 U	1 U	1 U
1,3-Dinitrobenzene	99-65-0	SW8330	3.70	3.70	0.4 U	0.4 U	0.4 U
2,4,6-Trinitrotoluene	118-96-7	SW8330	2.20	2.20	0.4 U	0.4 U	0.4 U
2,4-Dinitrotoluene	121-14-2	SW8330	73.0	73.0	0.4 U	0.4 U	0.4 U
2,6-Dinitrotoluene	606-20-2	SW8330	37.0	37.0	0.2 U	0.2 U	0.2 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	SW8330	73.0	----	0.2 U	0.2 U	0.2 U
o-Nitrotoluene	88-72-2	SW8330	61.0	370.0	0.4 U	0.4 U	0.4 U
m-Nitrotoluene	99-08-1	SW8330	----	120.0	0.4 U	0.4 U	0.4 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	SW8330	73.0	----	0.2 U	0.2 U	0.2 U
p-Nitrotoluene	99-99-0	SW8330	----	4.00	1 U	1 U	1 U
HMX	2691-41-0	SW8330	1,800.0	1,800.0	0.4 U	0.4 U	0.4 U
Nitrobenzene	98-95-3	SW8330	3.50	3.40	0.4 U	0.4 U	0.4 U
Nitroglycerin	55-63-0	SW8330	3.70	----	3 U	3 U	3 U
PETN	78-11-5	SW8330	----	----	2 U	2 U	2 U
RDX	121-82-4	SW8330	0.61	0.61	0.2 U	0.2 U	0.2 U
Tetryl	479-45-8	SW8330	150.0	----	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

NOTE: U – undetected J – estimated UJ – non-detect result is estimated. E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.4 SUMMARY OF ANALYTICAL RESULTS FOR SHALLOW GROUNDWATER WELL SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	GW-S04 D8A120180003 (µg/l)	GW-S05 D8A120180006 (µg/l)	GW-S06 D8A120180007 (µg/l)
Explosives							
1,3,5- Trinitrobenzene	99-35-4	SW8330	1,100.0	1,100.0	1 U	1 U	1 U
1,3-Dinitrobenzene	99-65-0	SW8330	3.70	3.70	0.4 U	0.4 U	0.4 U
2,4,6-Trinitrotoluene	118-96-7	SW8330	2.20	2.20	0.4 U	0.4 U	0.4 U
2,4-Dinitrotoluene	121-14-2	SW8330	73.0	73.0	0.4 U	0.4 U	0.4 U
2,6-Dinitrotoluene	606-20-2	SW8330	37.0	37.0	0.2 U	0.2 U	0.2 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	SW8330	73.0	----	0.2 U	0.2 U	0.2 U
o-Nitrotoluene	88-72-2	SW8330	61.0	370.0	0.4 U	0.4 U	0.4 U
m-Nitrotoluene	99-08-1	SW8330	----	120.0	0.4 U	0.4 U	0.4 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	SW8330	73.0	----	0.2 U	0.2 U	0.2 U
p-Nitrotoluene	99-99-0	SW8330	----	4.00	1 U	1 U	1 U
HMX	2691-41-0	SW8330	1,800.0	1,800.0	0.4 U	0.4 U	0.4 U
Nitrobenzene	98-95-3	SW8330	3.50	3.40	0.4 U	0.4 U	0.4 U
Nitroglycerin	55-63-0	SW8330	3.70	----	3 U	3 U	3 U
PETN	78-11-5	SW8330	----	----	2 U	2 U	2 U
RDX	121-82-4	SW8330	0.61	0.61	0.2 U	0.2 U	0.2 U
Tetryl	479-45-8	SW8330	150.0	----	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

NOTE: U – undetected J – estimated UJ – non-detect result is estimated. E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.4 SUMMARY OF ANALYTICAL RESULTS FOR SHALLOW GROUNDWATER WELL SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	GW-S07 D8A120180008 (µg/l)	GW-S08 D8A090200003 (µg/l)	GW-S09 D8A110236008 (µg/l)
Explosives							
1,3,5- Trinitrobenzene	99-35-4	SW8330	1,100.0	1,100.0	1 U	1 U	1 U
1,3-Dinitrobenzene	99-65-0	SW8330	3.70	3.70	0.4 U	0.4 U	0.4 U
2,4,6-Trinitrotoluene	118-96-7	SW8330	2.20	2.20	0.4 U	0.4 U	0.4 U
2,4-Dinitrotoluene	121-14-2	SW8330	73.0	73.0	0.4 U	0.4 U	0.4 U
2,6-Dinitrotoluene	606-20-2	SW8330	37.0	37.0	0.2 U	0.2 U	0.2 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	SW8330	73.0	----	0.2 U	0.2 U	0.2 U
o-Nitrotoluene	88-72-2	SW8330	61.0	370.0	0.4 U	0.4 U	0.4 U
m-Nitrotoluene	99-08-1	SW8330	----	120.0	0.4 U	0.4 U	0.4 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	SW8330	73.0	----	0.2 U	0.2 U	0.2 U
p-Nitrotoluene	99-99-0	SW8330	----	4.00	1 U	1 U	1 U
HMX	2691-41-0	SW8330	1,800.0	1,800.0	0.4 U	0.4 U	0.4 U
Nitrobenzene	98-95-3	SW8330	3.50	3.40	0.4 U	0.4 U	0.4 U
Nitroglycerin	55-63-0	SW8330	3.70	----	3 U	3 U	3 U
PETN	78-11-5	SW8330	----	----	2 U	2 U	2 U
RDX	121-82-4	SW8330	0.61	0.61	0.2 U	0.2 U	0.2 U
Tetryl	479-45-8	SW8330	150.0	----	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

NOTE: U – undetected J – estimated UJ – non-detect result is estimated. E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.4 SUMMARY OF ANALYTICAL RESULTS FOR SHALLOW GROUNDWATER WELL SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	GW-S10 D8A100295005 (µg/l)
Explosives					
1,3,5- Trinitrobenzene	99-35-4	SW8330	1,100.0	1,100.0	1 U
1,3-Dinitrobenzene	99-65-0	SW8330	3.70	3.70	0.4 U
2,4,6-Trinitrotoluene	118-96-7	SW8330	2.20	2.20	0.4 U
2,4-Dinitrotoluene	121-14-2	SW8330	73.0	73.0	0.4 U
2,6-Dinitrotoluene	606-20-2	SW8330	37.0	37.0	0.2 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	SW8330	73.0	----	0.2 U
o-Nitrotoluene	88-72-2	SW8330	61.0	370.0	0.4 U
m-Nitrotoluene	99-08-1	SW8330	----	120.0	0.4 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	SW8330	73.0	----	0.2 U
p-Nitrotoluene	99-99-0	SW8330	----	4.00	1 U
HMX	2691-41-0	SW8330	1,800.0	1,800.0	0.4 U
Nitrobenzene	98-95-3	SW8330	3.50	3.40	0.4 U
Nitroglycerin	55-63-0	SW8330	3.70	----	3 U
PETN	78-11-5	SW8330	----	----	2 U
RDX	121-82-4	SW8330	0.61	0.61	0.2 U
Tetryl	479-45-8	SW8330	150.0	----	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

NOTE: U – undetected J – estimated UJ – non-detect result is estimated. E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.5 SUMMARY OF EXCEEDANCES FOR DEEP GROUNDWATER WELL SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

Contaminant	Frequency of Detection	Screening Concentrations		Laboratory ID	Well ID	Concentration (µg/L)
		EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)			
Arsenic	1/12	0.045	0.045	D8A090200002	GW-D03L	17
Lead	2/12	---	15.0	D8A110236002	GW-D02L	18
				D8A110236003	GW-D21 ³	20

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Duplicate sample collected at deep groundwater well DW2L.

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria

**TABLE 5.6 SUMMARY OF ANALYTICAL RESULTS FOR DEEP GROUNDWATER WELL SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	GW-D01 D8A110236005 (µg/l)	GW-D22 ⁴ D8A110236004 (µg/l)	GW-D02 D8A110236001 (µg/l)	GW-D02L D8A110236002 (µg/l)	GW-D21 ⁵ D8A110236003 (µg/l)
Perchlorate	14797-73-0	SW6860	26.0	26.0	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RCRA Metals									
Arsenic	7440-38-2	SW6010B	0.045	0.045	15 U	15 U	15 U	15 U	<5.6
Barium	7440-39-3	SW6010B	7,300.0	2,000.0	66	69	110	250	250
Cadmium	7440-43-9	SW6010B	18.0	18.0	5 U	5 U	5 U	5 U	5 U
Chromium	7440-47-3	SW6010B	110.0 ³	110.0 ³	<5.3	<6	10 U	28	30
Lead	7439-92-1	SW6010B	----	15.0	<3.3	<3.1	9 U	18	20
Selenium	7782-49-2	SW6010B	180.0	180.0	15 U	15 U	15 U	15 U	15 U
Silver	7440-22-4	SW6010B	180.0	180.0	10 U	10 U	10 U	10 U	10 U
Mercury	7439-97-6	SW7470A	----	11.0	0.2 U	0.2 U	0.2 U	<0.11	<0.083

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

⁴ Duplicate sample collected at deep groundwater well DW1.

⁵ Duplicate sample collected at deep groundwater well DW2L.

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.6 SUMMARY OF ANALYTICAL RESULTS FOR DEEP GROUNDWATER WELL SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	GW-D03 D8A120180002 (µg/l)	GW-D03L D8A090200002 (µg/l)	GW-D04 D8A120180004 (µg/l)	GW-D04L D8A120180005 (µg/l)	GW-D05 D8A100295004 (µg/l)
Perchlorate	14797-73-0	SW6860	26.0	26.0	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RCRA Metals									
Arsenic	7440-38-2	SW6010B	0.045	0.045	15 U	17	15 U	15 U	15 U
Barium	7440-39-3	SW6010B	7,300.0	2,000.0	190	170	79	58	230
Cadmium	7440-43-9	SW6010B	18.0	18.0	5 U	5 U	5 U	5 U	<0.49
Chromium	7440-47-3	SW6010B	110.0 ³	110.0 ³	10 U	10 U	10 U	10 U	10 U
Lead	7439-92-1	SW6010B	----	15.0	<2.8 J	<5.6 J	9 U	<3.9	<2.9 J
Selenium	7782-49-2	SW6010B	180.0	180.0	15 U	15 U	15 U	<6.1	15 U
Silver	7440-22-4	SW6010B	180.0	180.0	10 U	10 U	10 U	10 U	10 U
Mercury	7439-97-6	SW7470A	----	11.0	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.6 SUMMARY OF ANALYTICAL RESULTS FOR DEEP GROUNDWATER WELL SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	GW-D06 D8A100295001 (µg/l)	GW-D07 D8A100295002 (µg/l)
Perchlorate	14797-73-0	SW6860	26.0	26.0	0.1 U	0.1 U
RCRA Metals						
Arsenic	7440-38-2	SW6010B	0.045	0.045	15 U	15 U
Barium	7440-39-3	SW6010B	7,300.0	2,000.0	100	220
Cadmium	7440-43-9	SW6010B	18.0	18.0	5 U	5 U
Chromium	7440-47-3	SW6010B	110.0 ³	110.0 ³	10 U	10 U
Lead	7439-92-1	SW6010B	----	15.0	<3.4 J	9 U
Selenium	7782-49-2	SW6010B	180.0	180.0	15 U	15 U
Silver	7440-22-4	SW6010B	180.0	180.0	10 U	10 U
Mercury	7439-97-6	SW7470A	----	11.0	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.6 SUMMARY OF ANALYTICAL RESULTS FOR DEEP GROUNDWATER WELL SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	GW-D01 D8A110236005 (µg/l)	GW-D22 ⁴ D8A110236004 (µg/l)	GW-D02 D8A110236001 (µg/l)
Explosives							
1,3,5- Trinitrobenzene	99-35-4	SW8330	1,100.0	1,100.0	1 U	1 U	1 U
1,3-Dinitrobenzene	99-65-0	SW8330	3.70	3.70	0.4 U	0.4 U	0.4 U
2,4,6-Trinitrotoluene	118-96-7	SW8330	2.20	2.20	0.4 U	0.4 U	0.4 U
2,4-Dinitrotoluene	121-14-2	SW8330	73.0	73.0	0.4 U	0.4 U	0.4 U
2,6-Dinitrotoluene	606-20-2	SW8330	37.0	37.0	0.2 U	0.2 U	0.2 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	SW8330	73.0	----	0.2 U	0.2 U	0.2 U
o-Nitrotoluene	88-72-2	SW8330	61.0	370.0	0.4 U	0.4 U	0.4 U
m-Nitrotoluene	99-08-1	SW8330	----	120.0	0.4 U	0.4 U	0.4 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	SW8330	73.0	----	0.2 U	0.2 U	0.2 U
p-Nitrotoluene	99-99-0	SW8330	----	4.00	1 U	1 U	1 U
HMX	2691-41-0	SW8330	1,800.0	1,800.0	0.4 U	0.4 U	0.4 U
Nitrobenzene	98-95-3	SW8330	3.50	3.40	0.4	0.4 U	0.4 U
Nitroglycerin	55-63-0	SW8330	3.70	----	3 U	3 U	3 U
PETN	78-11-5	SW8330	----	----	2 U	2 U	2 U
RDX	121-82-4	SW8330	0.61	0.61	0.2 U	0.2 U	0.2 U
Tetryl	479-45-8	SW8330	150.0	----	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

⁴ Duplicate sample collected at deep groundwater well DW1.

⁵ Duplicate sample collected at deep groundwater well DW2L.

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.6 SUMMARY OF ANALYTICAL RESULTS FOR DEEP GROUNDWATER WELL SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	GW-D02L D8A110236002 (µg/l)	GW-D21 ⁵ D8A110236003 (µg/l)	GW-D03 D8A120180002 (µg/l)	GW-D03L D8A090200002 (µg/l)
Explosives								
1,3,5- Trinitrobenzene	99-35-4	SW8330	1,100.0	1,100.0	1 U	1 U	1 U	1 U
1,3-Dinitrobenzene	99-65-0	SW8330	3.70	3.70	0.4 U	0.4 U	0.4 U	0.4 U
2,4,6-Trinitrotoluene	118-96-7	SW8330	2.20	2.20	0.4 U	0.4 U	0.4 U	0.4 U
2,4-Dinitrotoluene	121-14-2	SW8330	73.0	73.0	0.4 U	0.4 U	0.4 U	0.4 U
2,6-Dinitrotoluene	606-20-2	SW8330	37.0	37.0	0.2 U	0.2 U	0.2 U	0.2 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
o-Nitrotoluene	88-72-2	SW8330	61.0	370.0	0.4 U	0.4 U	0.33 J	0.4 U
m-Nitrotoluene	99-08-1	SW8330	----	120.0	0.4 U	0.4 U	0.35 J	0.4 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
p-Nitrotoluene	99-99-0	SW8330	----	4.00	1 U	1 U	0.33 J	1 U
HMX	2691-41-0	SW8330	1,800.0	1,800.0	0.4 U	0.4 U	0.4 U	0.4 U
Nitrobenzene	98-95-3	SW8330	3.50	3.40	0.4 U	0.4 U	0.4 U	0.4 U
Nitroglycerin	55-63-0	SW8330	3.70	----	3 U	3 U	3 U	3 U
PETN	78-11-5	SW8330	----	----	2 U	2 U	2 U	2 U
RDX	121-82-4	SW8330	0.61	0.61	0.2 U	0.2 U	0.2 U	0.2 U
Tetryl	479-45-8	SW8330	150.0	----	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria

µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.6 SUMMARY OF ANALYTICAL RESULTS FOR DEEP GROUNDWATER WELL SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	GW-D04 D8A120180004 (µg/l)	GW-D04L D8A120180005 (µg/l)	GW-D05 D8A100295004 (µg/l)
Explosives							
1,3,5- Trinitrobenzene	99-35-4	SW8330	1,100.0	1,100.0	1 U	1 U	1 U
1,3-Dinitrobenzene	99-65-0	SW8330	3.70	3.70	0.4 U	0.4 U	0.4 U
2,4,6-Trinitrotoluene	118-96-7	SW8330	2.20	2.20	0.4 U	0.4 U	0.4 U
2,4-Dinitrotoluene	121-14-2	SW8330	73.0	73.0	0.4 U	0.4 U	0.4 U
2,6-Dinitrotoluene	606-20-2	SW8330	37.0	37.0	0.2 U	0.2 U	0.2 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	SW8330	73.0	----	0.2 U	0.2 U	0.2 U
o-Nitrotoluene	88-72-2	SW8330	61.0	370.0	0.4 U	0.4 U	0.4 U
m-Nitrotoluene	99-08-1	SW8330	----	120.0	0.4 U	0.4 U	0.4 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	SW8330	73.0	----	0.2 U	0.2 U	0.2 U
p-Nitrotoluene	99-99-0	SW8330	----	4.00	1 U	1 U	1 U
HMX	2691-41-0	SW8330	1,800.0	1,800.0	0.4 U	0.4 U	0.4 U
Nitrobenzene	98-95-3	SW8330	3.50	3.40	0.13 J	0.4 U	0.4 U
Nitroglycerin	55-63-0	SW8330	3.70	----	3 U	3 U	3 U
PETN	78-11-5	SW8330	----	----	2 U	2 U	2 U
RDX	121-82-4	SW8330	0.61	0.61	0.2 U	0.2 U	0.2 U
Tetryl	479-45-8	SW8330	150.0	----	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.6 SUMMARY OF ANALYTICAL RESULTS FOR DEEP GROUNDWATER WELL SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	GW-D06 D8A100295001 (µg/l)	GW-D07 D8A100295002 (µg/l)
Explosives						
1,3,5- Trinitrobenzene	99-35-4	SW8330	1,100.0	1,100.0	1 U	1 U
1,3-Dinitrobenzene	99-65-0	SW8330	3.70	3.70	0.4 U	0.4 U
2,4,6-Trinitrotoluene	118-96-7	SW8330	2.20	2.20	0.4 U	0.4 U
2,4-Dinitrotoluene	121-14-2	SW8330	73.0	73.0	0.4 U	0.4 U
2,6-Dinitrotoluene	606-20-2	SW8330	37.0	37.0	0.2 U	0.2 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	SW8330	73.0	----	0.2 U	0.2 U
o-Nitrotoluene	88-72-2	SW8330	61.0	370.0	0.4 U	0.4 U
m-Nitrotoluene	99-08-1	SW8330	----	120.0	0.4 U	0.4 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	SW8330	73.0	----	0.2 U	0.2 U
p-Nitrotoluene	99-99-0	SW8330	----	4.00	1 U	1 U
HMX	2691-41-0	SW8330	1,800.0	1,800.0	0.4 U	0.4 U
Nitrobenzene	98-95-3	SW8330	3.50	3.40	0.4 U	0.4 U
Nitroglycerin	55-63-0	SW8330	3.70	----	3 U	3 U
PETN	78-11-5	SW8330	----	----	2 U	2 U
RDX	121-82-4	SW8330	0.61	0.61	0.2 U	0.2 U
Tetryl	479-45-8	SW8330	150.0	----	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.7 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	SW-01 D8B15018809 (µg/l)	SW-02 D8B150188010 (µg/l)	SW-03 D8B150188011 (µg/l)	SW-04 D8B150188005 (µg/l)	SW-05 D8B150188004 (µg/l)
Perchlorate	14797-73-0	SW6860	26.0	26.0	0.028 J	0.019 J	0.11	4	0.19
RCRA Metals									
Arsenic	7440-38-2	SW6010B	0.045	0.045	15 U	15 U	15 U	15 U	15 U
Barium	7440-39-3	SW6010B	7,300.0	2,000.0	68	76	10	42	43
Cadmium	7440-43-9	SW6010B	18.0	18.0	5 U	5 U	5 U	5 U	5 U
Chromium	7440-47-3	SW6010B	110.0 ³	110.0 ³	<7.4	<5.9	10 U	10 U	10 U
Lead	7439-92-1	SW6010B	----	15.0	<5.9	<3.4	9 U	<3.7	9 U
Selenium	7782-49-2	SW6010B	180.0	180.0	15 U	15 U	15 U	15 U	15 U
Silver	7440-22-4	SW6010B	180.0	180.0	10 U	10 U	10 U	10 U	10 U
Mercury	7439-97-6	SW7470A	----	11.0	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

⁴ Duplicate sample collected at deep groundwater well DW1.

⁵ Duplicate sample collected at deep groundwater well DW2L.

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.7 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSSL tap water levels ² (µg/l)	SW-06 D8B130274005 (µg/l)	SW-35 ⁴ D8B130274006 (µg/l)	SW-07 D8B130274002 (µg/l)	SW-08 D8B130274004 (µg/l)	SW-09 D8B130274004 (µg/l)	SW-10 D8B150188017 (µg/l)
Perchlorate	14797-73-0	SW6860	26.0	26.0	0.076 J	0.077 J	5.2	0.045 J	0.026 J	1.3
RCRA Metals										
Arsenic	7440-38-2	SW6010B	0.045	0.045	15 U	<4.6	15 U	15 U	15 U	15 U
Barium	7440-39-3	SW6010B	7,300.0	2,000.0	20	20	36	36	48	44
Cadmium	7440-43-9	SW6010B	18.0	18.0	5 U	5 U	<0.47 J	5 U	5 U	5 U
Chromium	7440-47-3	SW6010B	110.0 ³	110.0 ³	10 U	10 U	10 U	10 U	<3.5	10 U
Lead	7439-92-1	SW6010B	----	15.0	9 U	9 U	9 U	9 U	9 U	9 U
Selenium	7782-49-2	SW6010B	180.0	180.0	15 U	15 U	15 U	15 U	15 U	15 U
Silver	7440-22-4	SW6010B	180.0	180.0	10 U	10 U	10 U	10 U	10 U	10 U
Mercury	7439-97-6	SW7470A	----	11.0	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

⁴ Duplicate sample collected at SW-06.

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.7 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	SW-39 ⁴ D8B150188016 (µg/l)	SW-11 D8B150188021 (µg/l)	SW-12 D8B150188020 (µg/l)	SW-13 D8B150188015 (µg/l)	SW-14 D8B150188019 (µg/l)
Perchlorate	14797-73-0	SW6860	26.0	26.0	1.3	0.024 J	0.028 J	0.058 J	0.071
RCRA Metals									
Arsenic	7440-38-2	SW6010B	0.045	0.045	15 U	15 U	15 U	15 U	15 U
Barium	7440-39-3	SW6010B	7,300.0	2,000.0	45	42	35	42	44
Cadmium	7440-43-9	SW6010B	18.0	18.0	5 U	5 U	5 U	5 U	5 U
Chromium	7440-47-3	SW6010B	110.0 ³	110.0 ³	<2.6	10 U	10 U	10 U	10 U
Lead	7439-92-1	SW6010B	----	15.0	<3.9	<3.3	9 U	9 U	9 U
Selenium	7782-49-2	SW6010B	180.0	180.0	15 U	15 U	15 U	15 U	<5.4
Silver	7440-22-4	SW6010B	180.0	180.0	10 U	10 U	10 U	10 U	10 U
Mercury	7439-97-6	SW7470A	----	11.0	<0.027	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

⁴ Duplicate sample collected at SW-10.

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.7 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	SW-15 D8B150188018 (µg/l)	SW-16 D8B150188006 (µg/l)	SW-17 D8B150188013 (µg/l)	SW-38 ⁴ D8B150188012 (µg/l)	SW-18 D8B150188007 (µg/l)
Perchlorate	14797-73-0	SW6860	26.0	26.0	0.031 J	0.026 J	0.098 J	0.092 J	0.03 J
RCRA Metals									
Arsenic	7440-38-2	SW6010B	0.045	0.045	15 U	15 U	15 U	15 U	15 U
Barium	7440-39-3	SW6010B	7,300.0	2,000.0	39	42	47	48	44
Cadmium	7440-43-9	SW6010B	18.0	18.0	5 U	5 U	5 U	5 U	5 U
Chromium	7440-47-3	SW6010B	110.0 ³	110.0 ³	10 U	10 U	<3.8	<2.8	10 U
Lead	7439-92-1	SW6010B	----	15.0	<3	9 U	9 U	9 U	9 U
Selenium	7782-49-2	SW6010B	180.0	180.0	<6.8	15 U	<7.1	15 U	15 U
Silver	7440-22-4	SW6010B	180.0	180.0	10 U	10 U	10 U	10 U	10 U
Mercury	7439-97-6	SW7470A	----	11.0	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

⁴ Duplicate sample collected at SW-17.

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.7 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	SW-19 D8B150188014 (µg/l)	SW-20 D8B140258012 (µg/l)	SW-21 D8B150188008 (µg/l)	SW-22 D8B150188022 (µg/l)	SW-23 D8B150188003 (µg/l)
Perchlorate	14797-73-0	SW6860	26.0	26.0	0.027 J	0.088 J	0.028 J	0.012 J	0.1 U
RCRA Metals									
Arsenic	7440-38-2	SW6010B	0.045	0.045	15 U	15 U	15 U	15 U	<4.4
Barium	7440-39-3	SW6010B	7,300.0	2,000.0	38	42	35	45	34
Cadmium	7440-43-9	SW6010B	18.0	18.0	5 U	5 U	5 U	5 U	5 U
Chromium	7440-47-3	SW6010B	110.0 ³	110.0 ³	10 U	<2.8	10 U	10 U	10 U
Lead	7439-92-1	SW6010B	----	15.0	9 U	<3	<2.8	9 U	<2.8
Selenium	7782-49-2	SW6010B	180.0	180.0	<5	15 U	15 U	15 U	15 U
Silver	7440-22-4	SW6010B	180.0	180.0	10 U	10 U	10 U	10 U	10 U
Mercury	7439-97-6	SW7470A	----	11.0	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.7 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	SW-24 D8B150188001 (µg/l)	SW-25 D8B140258013 (µg/l)	SW-26 D8B140258014 (µg/l)	SW-27 D8B140248010 (µg/l)	SW-37 ⁴ D8B140258011 (µg/l)
Perchlorate	14797-73-0	SW6860	26.0	26.0	0.1 U	0.1 U	0.1 U	0.009 J	0.0088 J
RCRA Metals									
Arsenic	7440-38-2	SW6010B	0.045	0.045	15 U	15 U	15 U	15 U	15 U
Barium	7440-39-3	SW6010B	7,300.0	2,000.0	29	32	34	50	52
Cadmium	7440-43-9	SW6010B	18.0	18.0	5 U	5 U	5 U	5 U	5 U
Chromium	7440-47-3	SW6010B	110.0 ³	110.0 ³	10 U	10 U	10 U	10 U	10 U
Lead	7439-92-1	SW6010B	----	15.0	9 U	9 U	9 U	9 U	<2.7
Selenium	7782-49-2	SW6010B	180.0	180.0	15 U	15 U	15 U	15 U	15 U
Silver	7440-22-4	SW6010B	180.0	180.0	10 U	10 U	10 U	10 U	10 U
Mercury	7439-97-6	SW7470A	----	11.0	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

⁴ Duplicate sample collected at SW-27.

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.7 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	SW-28 D8B140258007 (µg/l)	SW-36 ⁴ D8B140258008 (µg/l)	SW-29 D8B140258002 (µg/l)	SW-30 D8B140258004 (µg/l)	SW-31 D8B140258001 (µg/l)
Perchlorate	14797-73-0	SW6860	26.0	26.0	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RCRA Metals									
Arsenic	7440-38-2	SW6010B	0.045	0.045	15 U	15 U	15 U	15 U	15 U
Barium	7440-39-3	SW6010B	7,300.0	2,000.0	19	19	26	15	24
Cadmium	7440-43-9	SW6010B	18.0	18.0	5 U	5 U	5 U	5 U	5 U
Chromium	7440-47-3	SW6010B	110.0 ³	110.0 ³	10 U	10 U	10 U	10 U	10 U
Lead	7439-92-1	SW6010B	----	15.0	9 U	9 U	<3.3	9 U	9 U
Selenium	7782-49-2	SW6010B	180.0	180.0	15 U	15 U	15 U	15 U	15 U
Silver	7440-22-4	SW6010B	180.0	180.0	10 U	10 U	10 U	10 U	10 U
Mercury	7439-97-6	SW7470A	----	11.0	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

⁴ Duplicate sample collected at SW-28.

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.7 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	SW-32 D8B140258003 (µg/l)	SW-33 D8B140258005 (µg/l)	SW-34 D8B140258006 (µg/l)
Perchlorate	14797-73-0	SW6860	26.0	26.0	0.1 U	0.1 U	0.015 J
RCRA Metals							
Arsenic	7440-38-2	SW6010B	0.045	0.045	15 U	<5.2	15 U
Barium	7440-39-3	SW6010B	7,300.0	2,000.0	51	33	44
Cadmium	7440-43-9	SW6010B	18.0	18.0	5 U	5 U	5 U
Chromium	7440-47-3	SW6010B	110.0 ³	110.0 ³	<2.8	10 U	10 U
Lead	7439-92-1	SW6010B	----	15.0	<3.4	9 U	<3.4
Selenium	7782-49-2	SW6010B	180.0	180.0	15 U	15 U	15 U
Silver	7440-22-4	SW6010B	180.0	180.0	10 U	10 U	10 U
Mercury	7439-97-6	SW7470A	----	11.0	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.7 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	SW-01 D8B15018809 (µg/l)	SW-02 D8B150188010 (µg/l)	SW-03 D8B150188011 (µg/l)	SW-04 D8B150188005 (µg/l)
Explosives								
1,3,5- Trinitrobenzene	99-35-4	SW8330	1,100.0	1,100.0	1 U	1 U	1 U	1 U
1,3-Dinitrobenzene	99-65-0	SW8330	3.70	3.70	0.4 U	0.4 U	0.4 U	0.4 U
2,4,6-Trinitrotoluene	118-96-7	SW8330	2.20	2.20	0.4 U	0.4 U	0.4 U	0.4 U
2,4-Dinitrotoluene	121-14-2	SW8330	73.0	73.0	0.4 U	0.4 U	0.4 U	0.4 U
2,6-Dinitrotoluene	606-20-2	SW8330	37.0	37.0	0.2 U	0.2 U	0.2 U	0.2 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
o-Nitrotoluene	88-72-2	SW8330	61.0	370.0	0.4 U	0.4 U	0.4 U	0.4 U
m-Nitrotoluene	99-08-1	SW8330	----	120.0	0.4 U	0.4 U	0.4 U	0.4 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
p-Nitrotoluene	99-99-0	SW8330	----	4.00	1 U	1 U	1 U	1 U
HMX	2691-41-0	SW8330	1,800.0	1,800.0	0.4 U	0.4 U	0.4 U	0.4 U
Nitrobenzene	98-95-3	SW8330	3.50	3.40	0.4 U	0.4 U	0.4 U	0.4 U
Nitroglycerin	55-63-0	SW8330	3.70	----	3 U	3 U	3 U	3 U
PETN	78-11-5	SW8330	----	----	2 U	2 U	2 U	2 U
RDX	121-82-4	SW8330	0.61	0.61	0.2 U	0.2 U	0.2 U	0.2 U
Tetryl	479-45-8	SW8330	150.0	----	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.7 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	SW-05 D8B150188004 (µg/l)	SW-06 D8B130274005 (µg/l)	SW-35 ⁴ D8B130274006 (µg/l)	SW-07 D8B130274002 (µg/l)
Explosives								
1,3,5- Trinitrobenzene	99-35-4	SW8330	1,100.0	1,100.0	1 U	1 U	1 U	1 U
1,3-Dinitrobenzene	99-65-0	SW8330	3.70	3.70	0.4 U	0.4 U	0.4 U	0.4 U
2,4,6-Trinitrotoluene	118-96-7	SW8330	2.20	2.20	0.4 U	0.4 U	0.4 U	0.4 U
2,4-Dinitrotoluene	121-14-2	SW8330	73.0	73.0	0.4 U	0.4 U	0.4 U	0.4 U
2,6-Dinitrotoluene	606-20-2	SW8330	37.0	37.0	0.2 U	0.2 U	0.2 U	0.2 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
o-Nitrotoluene	88-72-2	SW8330	61.0	370.0	0.4 U	0.4 U	0.4 U	0.4 U
m-Nitrotoluene	99-08-1	SW8330	----	120.0	0.4 U	0.38 J	0.39 J	0.4 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
p-Nitrotoluene	99-99-0	SW8330	----	4.00	1 U	1 U	1 U	1 U
HMX	2691-41-0	SW8330	1,800.0	1,800.0	0.4 U	0.4 U	0.4 U	0.4 U
Nitrobenzene	98-95-3	SW8330	3.50	3.40	0.4 U	0.4 U	0.4 U	0.4 U
Nitroglycerin	55-63-0	SW8330	3.70	----	3 U	3 U	3 U	3 U
PETN	78-11-5	SW8330	----	----	2 U	2 U	2 U	2 U
RDX	121-82-4	SW8330	0.61	0.61	0.2 U	0.2 U	0.2 U	0.2 U
Tetryl	479-45-8	SW8330	150.0	----	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

⁴ Duplicate sample collected at SW-06.

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.7 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	SW-08 D8B130274004 (µg/l)	SW-09 D8B130274001 (µg/l)	SW-10 D8B150188017 (µg/l)	SW-39 ⁴ D8B150188016 (µg/l)
Explosives								
1,3,5- Trinitrobenzene	99-35-4	SW8330	1,100.0	1,100.0	1 U	1 U	1 U	1 U
1,3-Dinitrobenzene	99-65-0	SW8330	3.70	3.70	0.4 U	0.4 U	0.4 U	0.4 U
2,4,6-Trinitrotoluene	118-96-7	SW8330	2.20	2.20	0.4 U	0.4 U	0.4 U	0.4 U
2,4-Dinitrotoluene	121-14-2	SW8330	73.0	73.0	0.4 U	0.4 U	0.4 U	0.4 U
2,6-Dinitrotoluene	606-20-2	SW8330	37.0	37.0	0.2 U	0.2 U	0.2 U	0.2 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
o-Nitrotoluene	88-72-2	SW8330	61.0	370.0	0.4 U	0.4 U	0.4 U	0.4 U
m-Nitrotoluene	99-08-1	SW8330	----	120.0	0.4 U	0.19 J	0.4 U	0.4 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
p-Nitrotoluene	99-99-0	SW8330	----	4.00	1 U	1 U	1 U	1 U
HMX	2691-41-0	SW8330	1,800.0	1,800.0	0.4 U	0.4 U	0.4 U	0.4 U
Nitrobenzene	98-95-3	SW8330	3.50	3.40	0.4 U	0.4 U	0.4 U	0.4 U
Nitroglycerin	55-63-0	SW8330	3.70	----	3 U	3 U	3 U	3 U
PETN	78-11-5	SW8330	----	----	2 U	2 U	2 U	2 U
RDX	121-82-4	SW8330	0.61	0.61	0.2 U	0.2 U	0.2 U	0.2 U
Tetryl	479-45-8	SW8330	150.0	----	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

⁴ Duplicate sample collected at SW-10.

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.7 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	SW-11 D8B150188021 (µg/l)	SW-12 D8B150188020 (µg/l)	SW-13 D8B150188015 (µg/l)	SW-14 D8B150188019 (µg/l)
Explosives								
1,3,5- Trinitrobenzene	99-35-4	SW8330	1,100.0	1,100.0	1 U	1 U	1 U	1 U
1,3-Dinitrobenzene	99-65-0	SW8330	3.70	3.70	0.4 U	0.4 U	0.4 U	0.4 U
2,4,6-Trinitrotoluene	118-96-7	SW8330	2.20	2.20	0.4 U	0.4 U	0.4 U	0.4 U
2,4-Dinitrotoluene	121-14-2	SW8330	73.0	73.0	0.4 U	0.4 U	0.4 U	0.4 U
2,6-Dinitrotoluene	606-20-2	SW8330	37.0	37.0	0.2 U	0.2 U	0.2 U	0.2 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
o-Nitrotoluene	88-72-2	SW8330	61.0	370.0	0.4 U	0.4 U	0.4 U	0.4 U
m-Nitrotoluene	99-08-1	SW8330	----	120.0	0.4 U	0.4 U	0.4 U	0.4 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
p-Nitrotoluene	99-99-0	SW8330	----	4.00	1 U	1 U	1 U	1 U
HMX	2691-41-0	SW8330	1,800.0	1,800.0	0.4 U	0.4 U	0.4 U	0.4 U
Nitrobenzene	98-95-3	SW8330	3.50	3.40	0.4 U	0.4 U	0.4 U	0.4 U
Nitroglycerin	55-63-0	SW8330	3.70	----	3 U	3 U	3 U	3 U
PETN	78-11-5	SW8330	----	----	2 U	2 U	2 U	2 U
RDX	121-82-4	SW8330	0.61	0.61	0.2 U	0.2 U	0.2 U	0.2 U
Tetryl	479-45-8	SW8330	150.0	----	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.7 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	SW-15 D8B150188018 (µg/l)	SW-16 D8B150188006 (µg/l)	SW-17 D8B150188013 (µg/l)	SW-38 ⁴ D8B150188012 (µg/l)
Explosives								
1,3,5- Trinitrobenzene	99-35-4	SW8330	1,100.0	1,100.0	1 U	1 U	1 U	1 U
1,3-Dinitrobenzene	99-65-0	SW8330	3.70	3.70	0.4 U	0.4 U	0.4 U	0.4 U
2,4,6-Trinitrotoluene	118-96-7	SW8330	2.20	2.20	0.4 U	0.4 U	0.4 U	0.4 U
2,4-Dinitrotoluene	121-14-2	SW8330	73.0	73.0	0.4 U	0.4 U	0.4 U	0.4 U
2,6-Dinitrotoluene	606-20-2	SW8330	37.0	37.0	0.2 U	0.2 U	0.2 U	0.2 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
o-Nitrotoluene	88-72-2	SW8330	61.0	370.0	0.4 U	0.4 U	0.4 U	0.4 U
m-Nitrotoluene	99-08-1	SW8330	----	120.0	0.4 U	0.4 U	0.4 U	0.4 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
p-Nitrotoluene	99-99-0	SW8330	----	4.00	1 U	1 U	1 U	1 U
HMX	2691-41-0	SW8330	1,800.0	1,800.0	0.4 U	0.4 U	0.4 U	0.4 U
Nitrobenzene	98-95-3	SW8330	3.50	3.40	0.4 U	0.4 U	0.4 U	0.4 U
Nitroglycerin	55-63-0	SW8330	3.70	----	3 U	3 U	3 U	3 U
PETN	78-11-5	SW8330	----	----	2 U	2 U	2 U	2 U
RDX	121-82-4	SW8330	0.61	0.61	0.2 U	0.2 U	0.2 U	0.2 U
Tetryl	479-45-8	SW8330	150.0	----	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

⁴ Duplicate sample collected at SW-17.

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.7 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	SW-18 D8B150188007 (µg/l)	SW-19 D8B150188014 (µg/l)	SW-20 D8B140258012 (µg/l)	SW-21 D8B150188008 (µg/l)
Explosives								
1,3,5- Trinitrobenzene	99-35-4	SW8330	1,100.0	1,100.0	1 U	1 U	1 U	1 U
1,3-Dinitrobenzene	99-65-0	SW8330	3.70	3.70	0.4 U	0.4 U	0.4 U	0.4 U
2,4,6-Trinitrotoluene	118-96-7	SW8330	2.20	2.20	0.4 U	0.4 U	0.4 U	0.4 U
2,4-Dinitrotoluene	121-14-2	SW8330	73.0	73.0	0.4 U	0.4 U	0.4 U	0.4 U
2,6-Dinitrotoluene	606-20-2	SW8330	37.0	37.0	0.2 U	0.2 U	0.2 U	0.2 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
o-Nitrotoluene	88-72-2	SW8330	61.0	370.0	0.4 U	0.4 U	0.15 U	0.4 U
m-Nitrotoluene	99-08-1	SW8330	----	120.0	0.4 U	0.4 U	0.15 J	0.4 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
p-Nitrotoluene	99-99-0	SW8330	----	4.00	1 U	1 U	1 U	1 U
HMX	2691-41-0	SW8330	1,800.0	1,800.0	0.4 U	0.4 U	0.4 U	0.4 U
Nitrobenzene	98-95-3	SW8330	3.50	3.40	0.4 U	0.4 U	0.4 U	0.4 U
Nitroglycerin	55-63-0	SW8330	3.70	----	3 U	3 U	3 U	3 U
PETN	78-11-5	SW8330	----	----	2 U	2 U	2 U	2 U
RDX	121-82-4	SW8330	0.61	0.61	0.2 U	0.2 U	0.2 U	0.2 U
Tetryl	479-45-8	SW8330	150.0	----	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.7 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	SW-22 D8B150188022 (µg/l)	SW-23 D8B150188003 (µg/l)	SW-24 D8B150188001 (µg/l)	SW-25 D8B140258013 (µg/l)
Explosives								
1,3,5- Trinitrobenzene	99-35-4	SW8330	1,100.0	1,100.0	1 U	1 U	1 U	1 U
1,3-Dinitrobenzene	99-65-0	SW8330	3.70	3.70	0.4 U	0.4 U	0.4 U	0.4 U
2,4,6-Trinitrotoluene	118-96-7	SW8330	2.20	2.20	0.4 U	0.4 U	0.4 U	0.4 U
2,4-Dinitrotoluene	121-14-2	SW8330	73.0	73.0	0.4 U	0.4 U	0.4 U	0.4 U
2,6-Dinitrotoluene	606-20-2	SW8330	37.0	37.0	0.2 U	0.2 U	0.2 U	0.2 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
o-Nitrotoluene	88-72-2	SW8330	61.0	370.0	0.4 U	0.4 U	0.4 U	0.4 U
m-Nitrotoluene	99-08-1	SW8330	----	120.0	0.4 U	0.4 U	0.4 U	0.4 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
p-Nitrotoluene	99-99-0	SW8330	----	4.00	1 U	1 U	1 U	1 U
HMX	2691-41-0	SW8330	1,800.0	1,800.0	0.4 U	0.4 U	0.4 U	0.4 U
Nitrobenzene	98-95-3	SW8330	3.50	3.40	0.4 U	0.4 U	0.4 U	0.4 U
Nitroglycerin	55-63-0	SW8330	3.70	----	3 U	3 U	3 U	3 U
PETN	78-11-5	SW8330	----	----	2 U	2 U	2 U	2 U
RDX	121-82-4	SW8330	0.61	0.61	0.2 U	0.2 U	0.2 U	0.2 U
Tetryl	479-45-8	SW8330	150.0	----	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.7 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	SW-26 D8B140258014 (µg/l)	SW-27 D8B140248010 (µg/l)	SW-37 ⁴ D8B140258011 (µg/l)	SW-28 D8B140258007 (µg/l)
Explosives								
1,3,5- Trinitrobenzene	99-35-4	SW8330	1,100.0	1,100.0	1 U	1 U	1 U	1 U
1,3-Dinitrobenzene	99-65-0	SW8330	3.70	3.70	0.4 U	0.4 U	0.4 U	0.4 U
2,4,6-Trinitrotoluene	118-96-7	SW8330	2.20	2.20	0.4 U	0.4 U	0.4 U	0.4 U
2,4-Dinitrotoluene	121-14-2	SW8330	73.0	73.0	0.4 U	0.4 U	0.4 U	0.4 U
2,6-Dinitrotoluene	606-20-2	SW8330	37.0	37.0	0.2 U	0.2 U	0.2 U	0.2 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
o-Nitrotoluene	88-72-2	SW8330	61.0	370.0	0.4 U	0.4 U	0.4 U	0.4 U
m-Nitrotoluene	99-08-1	SW8330	----	120.0	0.4 U	0.4 U	0.4 U	0.17 J
4-Amino-2,6-Dinitrotoluene	19406-51-0	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
p-Nitrotoluene	99-99-0	SW8330	----	4.00	1 U	1 U	1 U	1 U
HMX	2691-41-0	SW8330	1,800.0	1,800.0	0.4 U	0.4 U	0.4 U	0.4 U
Nitrobenzene	98-95-3	SW8330	3.50	3.40	0.4 U	0.4 U	0.4 U	0.4 U
Nitroglycerin	55-63-0	SW8330	3.70	----	3 U	3 U	3 U	3 U
PETN	78-11-5	SW8330	----	----	2 U	2 U	2 U	2 U
RDX	121-82-4	SW8330	0.61	0.61	0.2 U	0.2 U	0.2 U	0.2 U
Tetryl	479-45-8	SW8330	150.0	----	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

⁴ Duplicate sample collected at SW-27.

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.7 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	SW-36 ⁴ D8B140258008 (µg/l)	SW-29 D8B140258002 (µg/l)	SW-30 D8B140258004 (µg/l)	SW-31 D8B140258001 (µg/l)
Explosives								
1,3,5- Trinitrobenzene	99-35-4	SW8330	1,100.0	1,100.0	1 U	1 U	1 U	1 U
1,3-Dinitrobenzene	99-65-0	SW8330	3.70	3.70	0.4 U	0.4 U	0.4 U	0.4 U
2,4,6-Trinitrotoluene	118-96-7	SW8330	2.20	2.20	0.4 U	0.4 U	0.4 U	0.4 U
2,4-Dinitrotoluene	121-14-2	SW8330	73.0	73.0	0.4 U	0.4 U	0.4 U	0.4 U
2,6-Dinitrotoluene	606-20-2	SW8330	37.0	37.0	0.2 U	0.2 U	0.2 U	0.2 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
o-Nitrotoluene	88-72-2	SW8330	61.0	370.0	0.4 U	0.4 U	0.4 U	0.4 U
m-Nitrotoluene	99-08-1	SW8330	----	120.0	0.4 U	0.4 U	0.4 U	0.4 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	SW8330	73.0	----	0.2 U	0.2 U	0.2 U	0.2 U
p-Nitrotoluene	99-99-0	SW8330	----	4.00	1 U	1 U	1 U	1 U
HMX	2691-41-0	SW8330	1,800.0	1,800.0	0.4 U	0.4 U	0.4 U	0.4 U
Nitrobenzene	98-95-3	SW8330	3.50	3.40	0.4 U	0.4 U	0.4 U	0.4 U
Nitroglycerin	55-63-0	SW8330	3.70	----	3 U	3 U	3 U	3 U
PETN	78-11-5	SW8330	----	----	2 U	2 U	2 U	2 U
RDX	121-82-4	SW8330	0.61	0.61	0.2 U	0.2 U	0.2 U	0.2 U
Tetryl	479-45-8	SW8330	150.0	----	0.2 U	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

⁴ Duplicate sample collected at SW-28.

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.7 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	CAS Number	Analytical Method	EPA Region III RBC tap water levels ¹ (µg/l)	EPA Region 6 MSSL tap water levels ² (µg/l)	SW-32 D8B140258003 (µg/l)	SW-33 D8B140258005 (µg/l)	SW-34 D8B140258006 (µg/l)
Explosives							
1,3,5- Trinitrobenzene	99-35-4	SW8330	1,100.0	1,100.0	1 U	1 U	1 U
1,3-Dinitrobenzene	99-65-0	SW8330	3.70	3.70	0.4 U	0.4 U	0.4 U
2,4,6-Trinitrotoluene	118-96-7	SW8330	2.20	2.20	0.4 U	0.4 U	0.4 U
2,4-Dinitrotoluene	121-14-2	SW8330	73.0	73.0	0.4 U	0.4 U	0.4 U
2,6-Dinitrotoluene	606-20-2	SW8330	37.0	37.0	0.2 U	0.2 U	0.2 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	SW8330	73.0	----	0.2 U	0.2 U	0.2 U
o-Nitrotoluene	88-72-2	SW8330	61.0	370.0	0.4 U	0.4 U	0.4 U
m-Nitrotoluene	99-08-1	SW8330	----	120.0	0.4 U	0.4 U	0.4 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	SW8330	73.0	----	0.2 U	0.2 U	0.2 U
p-Nitrotoluene	99-99-0	SW8330	----	4.00	1 U	1 U	1 U
HMX	2691-41-0	SW8330	1,800.0	1,800.0	0.4 U	0.4 U	0.4 U
Nitrobenzene	98-95-3	SW8330	3.50	3.40	0.4 U	0.4 U	0.4 U
Nitroglycerin	55-63-0	SW8330	3.70	----	3 U	3 U	3 U
PETN	78-11-5	SW8330	----	----	2 U	2 U	2 U
RDX	121-82-4	SW8330	0.61	0.61	0.2 U	0.2 U	0.2 U
Tetryl	479-45-8	SW8330	150.0	----	0.2 U	0.2 U	0.2 U

¹ EPA Region 3 Risk Based Concentration Tables, April 2007

² EPA Region 6 Media Specific Screening Levels, May 2007

³ Value for Chromium VI

NOTE: U – undetected J – estimated UJ – non-detect result is estimated E – indicates that results did not meet serial dilution acceptance criteria
µg/l – micrograms per liter

Blue shaded cells represent sample that exceed both screening levels. Green shaded cells represent samples that exceed only the RBC water levels. Yellow shaded cells represent samples that exceed only the MSSL water levels. Information or data that is not available is depicted by dashed cells. Values associated with less than sign represent those values that were below the reporting limit.

**TABLE 5.8 SUMMARY OF ANALYTICAL RESULTS FOR ISOTOPIC SAMPLES
SHUMAKER NAVAL AMMUNITION DEPOT**

	AJ-01 IS-AJ-01 (mil)	SW-05 IS-SW-05 (mil)	SW-07 IS-SW-07 (mil)
Perchlorate ^{1,2,3,4}			
δ¹⁸O	-15.8	-1.5	-2.7
Δ¹⁷O	0.0	8.0	2.7
Δ³⁷Cl	0.8	-10.6	0.5

¹ Data normalized to RSIL-4 and RSIL-5 for oxygen isotope ratios

² Data normalized to SMOC for Cl isotope ratios

³ Precision is ± 0.2 per mil for Δ¹⁷O

⁴ Precision is ± 0.3 per mil for δ¹⁸O and Δ³⁷Cl

⁵ Gu, B.; Coates, J. *Perchlorate: Environmental Occurrence, Interactions and Treatment*; Springer 2005.

NOTE: RSIL – Reston Stable Isotope Laboratory SMOC – Standard Mean Ocean Chloride Cl – Chloride

Synthetic perchlorate – δ¹⁸O values typically range between -24.8 to -12.5 per mil difference between the ³⁷Cl/³⁵Cl ratio of a sample and that of the isotopic reference material, SMOC. Δ¹⁷O values are typically 0.0 ± 0.1 per mil difference between the ³⁷Cl/³⁵Cl ratio of a sample and that of SMOC.⁵

Natural perchlorate (i.e., perchlorate extracted from nitrate-bearing salts of the Atacama Desert and derivative fertilizer products) – Δ³⁷Cl values range from -14.5 to -11.7 per mil difference between the ³⁷Cl/³⁵Cl ratio of a sample and that of SMOC. δ¹⁸O values typically range from -9.3 to -4.2 per mil difference between the ³⁷Cl/³⁵Cl ratio of a sample and that of SMOC. Δ¹⁷O values are typically positive and range from +8.93 to +9.57 per mil difference between the ³⁷Cl/³⁵Cl ratio of a sample and that of SMOC.⁵