



US Army Corps  
of Engineers ®

## Notes for Analytical Data Tables and Figure Former Lake Ontario Ordnance Works Site Occidental Property Investigation – 2010

The data set represents analytical results associated with a sampling event conducted by the U.S. Army Corps of Engineers during August 2010. Soil and fill samples were collected from a “presumed storage area” identified in *Examination of Historical Aerial Photography-Selected Sites, Former Lake Ontario Ordnance Works, NY*, Final Report (prepared by the US Army Topographic Engineering Center. September 2002).

Sample identification (Sample ID) designators corresponding to the attached table “Summary of Analytical Results Occidental Chemical Corporation Data Gap Investigation – August 2010” and attached figure “August 2010 Sample Locations for the Occidental Chemical Corporation Property” are described below.

Example Sample ID: C2-OXY-SO-HE-0.5

C2 = Site ID Code for LOOW Analytical Database  
OXY = Occidental Property (Tax ID No. 60.00-3-5)  
SO = Soil  
HE = Sample Location (refer to figure)  
0.5 = Sample Depth (feet below ground surface)

Other designators provided on the table are:

B = probable blank contamination  
CAS = Chemical Abstracts Service Registry Number  
DUP = duplicate sample  
J = estimated value  
N = tentatively identified compound  
U = not detected, the associated number is the reporting limit  
mg/kg = milligrams per kilogram  
pCi/g = picocuries per gram  
µg/kg = micrograms per kilogram  
--- = not analyzed

Section 5 of the *Final Field Sampling Plan Addendum for Occidental Chemical Corporation Property Data Gap and Lewiston-Porter Central School District Investigations at the Former Lake Ontario Ordnance Works (LOOW)* (USACE, 2010) provides information on the investigation objectives, sampling rationale, analytical parameters and methods. A summary of analytical parameters and methods is also provided below.

### **Chemical (Organic and Inorganic) Constituents**

- Target Compound List (TCL) Volatile Organic Compounds (SW 846 8260B)
- TCL Semi-Volatile Organic Compounds (SW846 8270C)
- Explosive Compounds (SW846 8330)
- Target Analyte List (TAL) Inorganics (SW846 6020A)
- Hexavalent Chromium (SW846 7196A)

Sample C2-OXY-SO-Y20 was analyzed for radiological constituents because a measurement taken at ground surface (14,783 counts per minute – cpm) for worker health and safety exceeded site background (8,000 cpm). Analytical parameters and methods for the sample are provided below.



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### Radiological Constituents

- Gross Alpha/Beta (SW846 9310 Mod)
- Gamma Spectroscopy (DOE HASL 300 Ga-01-R Mod).
- Isotopic Uranium (DOE HASL 300 A-01-R Mod)
- Isotopic Plutonium (DOE HASL 300 A-01-R Mod)
- Isotopic Thorium (DOE HASL 300 A-01-R Mod)
- Radium-226 (DOE HASL 300 Ra-006-RC-Mod)
- Strontium-90 (DOE HASL 300 Sr-03-RC)

SUMMARY OF ANALYTICAL RESULTS  
 OCCIDENTAL CHEMICAL CORPORATION DATA GAP SAMPLING EVENT - AUGUST 2010  
 LAKE ONTARIO ORDNANCE WORKS

Location:		C10-GS2-2	C10-GS2-DET	C10-GS2-DET	C10-GS2-HE	C10-GS2-HE	C10-GS2-HN	C10-GS2-HN	C10-GS2-HN	
Sample Name:		C2-OXY-SO-S02-7	C2-OXY-DET-0.5	C2-OXY-DET-1	C2-OXY-HE-0.5	C2-OXY-HE-1	C2-OXY-HN-0.5	C2-OXY-HN-1	C2-OXY-SO-DUP1	
Parent Sample:									C2-OXY-HN-1	
Sample Date:		8/25/2010	8/27/2010	8/27/2010	8/23/2010	8/23/2010	8/23/2010	8/23/2010	8/23/2010	
Sample Depth:		6.5 - 7 ft	0 - 0.5 ft	0.5 - 1 ft	0 - 0.5 ft	1.0 - 1.5 ft	0 - 0.5 ft	1.0 - 1.5 ft	1.0 - 1.5 ft	
CAS	Analyte	Units								
<b>Metals</b>										
7429-90-5	Aluminum	mg/kg	7800	6720	12000	6420	10400	21900	11800	17600
7440-36-0	Antimony	mg/kg	0.6 UJ	15 U	1.2 U	1 J	0.93 J	1.3 J	3 UJ	1.6 J
7440-38-2	Arsenic	mg/kg	3.1	15 U	2.9	4.6 J	16	3.3 J	4.9 J	3.2 J
7440-39-3	Barium	mg/kg	136	4840	134	463	1750	465	293	804
7440-41-7	Beryllium	mg/kg	0.48	0.75 U	0.83	0.06 J	0.071 J	0.069 J	0.54	0.12 J
7440-42-8	Boron	mg/kg	3.6 B	225 UJ	18 UJ	45 U	45 U	45 U	45 U	45 U
7440-43-9	Cadmium	mg/kg	0.053 J	0.75 U	0.11	17.4	23.6	35.9	5.6	38.3
7440-70-2	Calcium	mg/kg	48000	12800 J	5620 J	6650	61900	10800	5380	9740
7440-47-3	Chromium	mg/kg	14.1	89.8	20.6	33.9 J	146 J	111 J	80.4 J	214 J
18540-29-9	Chromium (hexavalent)	mg/kg	0.23 UJ	1.3	0.24 U	3.6 UJ	0.59 J	22.4 J	0.65 J	4.4 J
7440-48-4	Cobalt	mg/kg	8.5	5.4	9.6	2.9	6	6.7	9.3	11.4
7440-50-8	Copper	mg/kg	25.4	239	26.6	259	407	1310	85.2	1170
7439-89-6	Iron	mg/kg	19800	99900	22800	10900	13000	14000	49700	18200
7439-92-1	Lead	mg/kg	5.7	59.3	5.3	1960	1160	2110	234	2750
7439-93-2	Lithium	mg/kg	19.1	4.8 J	18.5	1.8 J	3.6 J	3.1 J	19.6	3.9 J
7439-95-4	Magnesium	mg/kg	11400 J	32600 J	5910 J	3430	21800	8470	7600	14600
7439-96-5	Manganese	mg/kg	992 J	625 J	147 J	225	535	131	287	198
7439-97-6	Mercury	mg/kg	0.0081 B	0.031 B	0.032 B	0.1	0.042	0.13	0.13	0.12
7440-02-0	Nickel	mg/kg	17.7	22.2	21.6	19.1 J	75.2 J	40.7 J	27.5 J	63.5 J
7440-09-7	Potassium	mg/kg	1260 J	610 J	777 J	287	118	634	1090	1790
7782-49-2	Selenium	mg/kg	1.2	3.75 U	1.7	0.65 J	0.36 J	1.3 J	1.6 J	1.1 J
7440-22-4	Silver	mg/kg	0.043 J	0.6 U	0.037 J	0.32 J	0.27 J	0.37 J	0.082 J	0.39 J
7440-23-5	Sodium	mg/kg	112	136 J	41.9 J	60 U	134	101 J	38.7 J	93.9 J
7440-28-0	Thallium	mg/kg	0.11 B	3.75 U	0.3 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
7440-62-2	Vanadium	mg/kg	20.6	52.5 U	30.3	5.6	6.7	13.3	21.7	18.5
7440-66-6	Zinc	mg/kg	37.6 J	17100 J	42.4 J	9450 J	52300 J	12900 J	1220 J	13700 J
<b>Explosives</b>										
99-35-4	1,3,5-Trinitrobenzene	ug/kg	--	110 J	140 U	220 U	5500	1400 U	190 U	1300 U
99-65-0	1,3-Dinitrobenzene	ug/kg	--	390 J	140 U	220 U	170 U	1400 U	190 U	1300 U
118-96-7	2,4,6-trinitrotoluene	ug/kg	--	220 U	140 U	220 U	50000	9600	400	8800
121-14-2	2,4-dinitrotoluene	ug/kg	--	970	140 U	770	390	5600	410	2800
606-20-2	2,6-dinitrotoluene	ug/kg	--	1200	140 U	580 NJ	330 J	3300	190 U	2900 NJ
35572-78-2	2-amino-4,6-dinitrotoluene	ug/kg	--	750	140 U	220 U	8300	98000	7000	85000
88-72-2	2-nitrotoluene	ug/kg	--	220 U	140 U	220 U	170 U	14000 NJ	190 U	1300 U
99-08-1	3-nitrotoluene	ug/kg	--	220 U	140 U	220 U	170 U	1400 U	190 U	1300 U
19406-51-0	4-amino-2,6-dinitrotoluene	ug/kg	--	2100	140 U	220 U	4900	130000	8400	130000
99-99-0	4-Nitrotoluene	ug/kg	--	220 U	140 U	220 U	170 U	1400 U	190 U	1300 U
2691-41-0	HMX	ug/kg	--	220 U	140 U	56000 J	67 NJ	1100 NJ	120 J	1300 NJ
98-95-3	Nitrobenzene	ug/kg	--	220 U	140 U	220 U	170 U	1400 U	190 U	1300 U

SUMMARY OF ANALYTICAL RESULTS  
 OCCIDENTAL CHEMICAL CORPORATION DATA GAP SAMPLING EVENT - AUGUST 2010  
 LAKE ONTARIO ORDNANCE WORKS

Location:		C10-GS2-2	C10-GS2-DET	C10-GS2-DET	C10-GS2-HE	C10-GS2-HE	C10-GS2-HN	C10-GS2-HN	C10-GS2-HN	
Sample Name:		C2-OXY-SO-S02-7	C2-OXY-DET-0.5	C2-OXY-DET-1	C2-OXY-HE-0.5	C2-OXY-HE-1	C2-OXY-HN-0.5	C2-OXY-HN-1	C2-OXY-SO-DUP1	
Parent Sample:									C2-OXY-HN-1	
Sample Date:		8/25/2010	8/27/2010	8/27/2010	8/23/2010	8/23/2010	8/23/2010	8/23/2010	8/23/2010	
Sample Depth:		6.5 - 7 ft	0 - 0.5 ft	0.5 - 1 ft	0 - 0.5 ft	1.0 - 1.5 ft	0 - 0.5 ft	1.0 - 1.5 ft	1.0 - 1.5 ft	
CAS	Analyte	Units								
121-82-4	RDX	ug/kg	--	220 U	140 U	220 U	320 J	1400 U	190 U	1300 NJ
479-45-8	Tetryl	ug/kg	--	220 U	140 U	--	170 U	1370 U	187 U	1310 U
<b>Radionuclides</b>										
13981-16-3	Plutonium-238	pCi/g	--	--	--	--	--	--	--	--
	Plutonium-239/240	pCi/g	--	--	--	--	--	--	--	--
13982-10-0	Plutonium-242	pCi/g	--	--	--	--	--	--	--	--
14119-34-7	Plutonium-244	pCi/g	--	--	--	--	--	--	--	--
14932-40-2	Thorium-231	pCi/g	--	--	--	--	--	--	--	--
15065-10-8	Thorium-234	pCi/g	--	--	--	--	--	--	--	--
13966-29-5	Uranium-234	pCi/g	--	--	--	--	--	--	--	--
15117-96-1	Uranium-235	pCi/g	--	--	--	--	--	--	--	--
7440-61-1	Uranium-238	pCi/g	--	--	--	--	--	--	--	--
13982-63-3	Radium-226	pCi/g	--	--	--	--	--	--	--	--
7440-24-6	Strontium	pCi/g	--	--	--	--	--	--	--	--
12587-46-1	Alpha	pCi/g	--	--	--	--	--	--	--	--
12587-47-2	Beta	pCi/g	--	--	--	--	--	--	--	--
<b>Other</b>										
	Percent Solids	%	88.8	53.5	83.7	55	70.3	43.9	64	45.8

CAS = Chemical Abstracts Service Registry Number

-- = Analyte was not measured

B = Probably blank contamination

J = Estimated value

N = Tentatively identified compound

U = Not detected; the associated number is the limit of detection

mg/kg = milligrams per kilogram

ug/kg = micrograms per kilogram

pCi/g = Picocuries per gram

% = percent

SUMMARY OF ANALYTICAL RESULTS  
 OCCIDENTAL CHEMICAL CORPORATION DATA GAP SAMPLING EVENT - AUGUST 2010  
 LAKE ONTARIO ORDNANCE WORKS

Location:		C10-GS2-HS	C10-GS2-HS	C10-GS2-HW	C10-GS2-HW	C10-GS2-P21	C10-GS2-P21	C10-GS2-P22	
Sample Name:		C2-OXY-HS-0.5	C2-OXY-HS-1	C2-OXY-HW-0.5	C2-OXY-HW-1	C2-OXY-SO-P21-1	C2-OXY-SO-P21-3	C2-OXY-SO-P22-2	
Parent Sample:									
Sample Date:		8/23/2010	8/23/2010	8/23/2010	8/23/2010	8/27/2010	8/27/2010	8/27/2010	
Sample Depth:		0 - 0.5 ft	1.0 - 1.5 ft	0 - 0.5 ft	1.0 - 1.5 ft	0.5 - 1 ft	2.5 - 3 ft	1.5 - 2 ft	
CAS	Analyte	Units							
<b>Metals</b>									
7429-90-5	Aluminum	mg/kg	1310	7200	5430	10600	21000	9800	7850
7440-36-0	Antimony	mg/kg	1.6 J	4.2 J	1.9 J	2.3 J	10.1	0.6 U	0.36
7440-38-2	Arsenic	mg/kg	6	10.1	2.4 J	3.4 J	18.4	1.8	1.8 J
7440-39-3	Barium	mg/kg	2890	3910	1970	9710	651 J	102 J	559 J
7440-41-7	Beryllium	mg/kg	0.15 U	0.13 J	0.15 U	0.15 U	0.19 J	0.6 J	0.25 J
7440-42-8	Boron	mg/kg	45 U	45 U	45 U	45 U	90 UJ	3.4 B	14.1 B
7440-43-9	Cadmium	mg/kg	7.7	23.3	12.2	5.7	15.1	0.065	0.26
7440-70-2	Calcium	mg/kg	6080	6170	6480	10900	11500 J	1970 J	18200 J
7440-47-3	Chromium	mg/kg	46.8 J	128 J	92.2 J	4960 J	56.5	12.8	27.2
18540-29-9	Chromium (hexavalent)	mg/kg	11.8 J	0.71 J	170 J	2.7 J	1.8	0.23 U	0.91
7440-48-4	Cobalt	mg/kg	5.5	6.2	2	10.1	13.4	7.9	4.6
7440-50-8	Copper	mg/kg	97.9	389	414	1240	4790	24.6	85
7439-89-6	Iron	mg/kg	51300	29300	8500	73300	153000	14900	10500
7439-92-1	Lead	mg/kg	1040	1660	201	122	2160	4.4	232
7439-93-2	Lithium	mg/kg	0.53 J	3.2 J	1 J	2.7 J	5.5	22.2	7.3
7439-95-4	Magnesium	mg/kg	2980	29000	10300	22800	7320 J	4470 J	10400 J
7439-96-5	Manganese	mg/kg	415	352	235	434	870 J	215 J	308 J
7439-97-6	Mercury	mg/kg	0.1	0.058	0.014 J	0.15	0.17	0.033 B	0.04 B
7440-02-0	Nickel	mg/kg	25.8 J	53.6 J	23.6 J	198 J	87.7	17.6	29.9
7440-09-7	Potassium	mg/kg	201	214	196	292	270 J	551 J	4540 J
7782-49-2	Selenium	mg/kg	0.44 J	0.34 J	0.74 J	0.38 J	0.77 J	1.3 J	0.49 J
7440-22-4	Silver	mg/kg	0.098 J	0.29 J	0.13 J	0.14 J	0.81 J	0.035 J	1.6
7440-23-5	Sodium	mg/kg	60 U	115 J	41.9 J	42.3 J	110 J	59.3	647
7440-28-0	Thallium	mg/kg	0.75 U	0.75 U	0.75 U	0.75 U	1.8 J	0.12 B	0.3 U
7440-62-2	Vanadium	mg/kg	10.5 U	6.7	4 J	11.7	10.1	14.7	11.8
7440-66-6	Zinc	mg/kg	6930 J	35900 J	20000 J	17400 J	8570 J	45.4 J	508 J
<b>Explosives</b>									
99-35-4	1,3,5-Trinitrobenzene	ug/kg	130 NJ	1800	1900	14000	150 J	140 U	45000 J
99-65-0	1,3-Dinitrobenzene	ug/kg	280 U	810	1600	3300	170 U	140 U	180 UJ
118-96-7	2,4,6-trinitrotoluene	ug/kg	280 U	780 NJ	3000 J	5200000	790	140 U	19000000 J
121-14-2	2,4-dinitrotoluene	ug/kg	830	960	1900	16000	270 J	140 U	26000 J
606-20-2	2,6-dinitrotoluene	ug/kg	370 NJ	2100	7200	11000 J	180 J	140 U	22000 J
35572-78-2	2-amino-4,6-dinitrotoluene	ug/kg	280 U	440	5300	54000	2300	140 U	170000 J
88-72-2	2-nitrotoluene	ug/kg	280 U	180 U	270 NJ	230 U	170 U	140 U	180 UJ
99-08-1	3-nitrotoluene	ug/kg	280 U	180 U	160 NJ	230 U	170 U	140 U	180 UJ
19406-51-0	4-amino-2,6-dinitrotoluene	ug/kg	280 U	380 J	8500	230 U	2300	140 U	180 UJ
99-99-0	4-Nitrotoluene	ug/kg	280 U	180 U	280 U	230 U	170 U	140 U	180 UJ
2691-41-0	HMX	ug/kg	280 U	440 NJ	280 U	2700 J	170 U	140 U	180 UJ
98-95-3	Nitrobenzene	ug/kg	280 U	180 U	280 U	230 U	170 U	140 U	180 UJ

SUMMARY OF ANALYTICAL RESULTS  
 OCCIDENTAL CHEMICAL CORPORATION DATA GAP SAMPLING EVENT - AUGUST 2010  
 LAKE ONTARIO ORDNANCE WORKS

Location:		C10-GS2-HS	C10-GS2-HS	C10-GS2-HW	C10-GS2-HW	C10-GS2-P21	C10-GS2-P21	C10-GS2-P22	
Sample Name:		C2-OXY-HS-0.5	C2-OXY-HS-1	C2-OXY-HW-0.5	C2-OXY-HW-1	C2-OXY-SO-P21-1	C2-OXY-SO-P21-3	C2-OXY-SO-P22-2	
Parent Sample:									
Sample Date:		8/23/2010	8/23/2010	8/23/2010	8/23/2010	8/27/2010	8/27/2010	8/27/2010	
Sample Depth:		0 - 0.5 ft	1.0 - 1.5 ft	0 - 0.5 ft	1.0 - 1.5 ft	0.5 - 1 ft	2.5 - 3 ft	1.5 - 2 ft	
CAS	Analyte	Units							
121-82-4	RDX	ug/kg	280 U	270 NJ	280 U	6300 J	170 U	140 U	180 UJ
479-45-8	Tetryl	ug/kg	276 U	184 U	280 U	8500 J	170 U	140 U	180 UJ
<b>Radionuclides</b>									
13981-16-3	Plutonium-238	pCi/g	--	--	--	--	--	--	--
	Plutonium-239/240	pCi/g	--	--	--	--	--	--	--
13982-10-0	Plutonium-242	pCi/g	--	--	--	--	--	--	--
14119-34-7	Plutonium-244	pCi/g	--	--	--	--	--	--	--
14932-40-2	Thorium-231	pCi/g	--	--	--	--	--	--	--
15065-10-8	Thorium-234	pCi/g	--	--	--	--	--	--	--
13966-29-5	Uranium-234	pCi/g	--	--	--	--	--	--	--
15117-96-1	Uranium-235	pCi/g	--	--	--	--	--	--	--
7440-61-1	Uranium-238	pCi/g	--	--	--	--	--	--	--
13982-63-3	Radium-226	pCi/g	--	--	--	--	--	--	--
7440-24-6	Strontium	pCi/g	--	--	--	--	--	--	--
12587-46-1	Alpha	pCi/g	--	--	--	--	--	--	--
12587-47-2	Beta	pCi/g	--	--	--	--	--	--	--
<b>Other</b>									
	Percent Solids	%	43.5	65.4	42.5	52	69.2	85.7	68.1

CAS = Chemical Abstracts Service Registry Number

-- = Analyte was not measured

B = Probably blank contamination

J = Estimated value

N = Tentatively identified compound

U = Not detected; the associated number is the limit of detection

mg/kg = milligrams per kilogram

ug/kg = micrograms per kilogram

pCi/g = Picocuries per gram

% = percent

SUMMARY OF ANALYTICAL RESULTS  
 OCCIDENTAL CHEMICAL CORPORATION DATA GAP SAMPLING EVENT - AUGUST 2010  
 LAKE ONTARIO ORDNANCE WORKS

Location:		C10-GS2-P22	C10-GS2-P23	C10-GS2-P23	C10-GS2-P23	C10-GS2-P23	C10-GS2-P24	
Sample Name:		C2-OXY-SO-P22-3	C2-OXY-SO-P23-1	C2-OXY-SO-DUPE1	C2-OXY-SO-P23-3	C2-OXY-SO-P2-03 DUP	C2-OXY-SO-P24-1	
Parent Sample:				C2-OXY-SO-P23-1		C2-OXY-SO-P23-3		
Sample Date:		8/27/2010	8/27/2010	8/27/2010	8/27/2010	8/27/2010	8/27/2010	
Sample Depth:		2.5 - 3 ft	0.5 - 1 ft	0.5 - 1 ft	2.5 - 3 ft	2.5 - 3 ft	0.5 - 1 ft	
CAS	Analyte	Units						
<b>Metals</b>								
7429-90-5	Aluminum	mg/kg	8010	10600	9350	10600	9260	9870
7440-36-0	Antimony	mg/kg	0.6 U	3 U	6 U	1.2 U	1.2 U	1.2 U
7440-38-2	Arsenic	mg/kg	1	1.1 J	6 U	5.6	4.4	1.4 J
7440-39-3	Barium	mg/kg	109 J	114 J	182	118 J	94.3	131 J
7440-41-7	Beryllium	mg/kg	0.73 J	0.75 J	0.64 J	0.78 J	0.57	0.79 J
7440-42-8	Boron	mg/kg	9 UJ	45 UJ	90 UJ	18 UJ	18 UJ	18 UJ
7440-43-9	Cadmium	mg/kg	0.11	0.53	0.87	0.11	0.16	0.37
7440-70-2	Calcium	mg/kg	1930 J	2130 J	3380 J	42300 J	61500 J	2900 J
7440-47-3	Chromium	mg/kg	11.1	12.8	20.2	15.4	16	13.5
18540-29-9	Chromium (hexavalent)	mg/kg	0.17 J	0.27 U	3.3	0.23 U	0.24 U	0.42 J
7440-48-4	Cobalt	mg/kg	4.5	4.7	5.4	10.3	8.4	4.7
7440-50-8	Copper	mg/kg	15.9	33.2	46.1	37.1	28.3	27.2
7439-89-6	Iron	mg/kg	7830	9130	11500	25500	23400	9430
7439-92-1	Lead	mg/kg	6.1	6.6	19.4	5.9	5.3	43.9
7439-93-2	Lithium	mg/kg	15.1	16.4	18.6	17.9	16.9	17.7
7439-95-4	Magnesium	mg/kg	2290 J	4180 J	4410 J	7920 J	7120 J	3500 J
7439-96-5	Manganese	mg/kg	74 J	78.5 J	108 J	874 J	527 J	78.6 J
7439-97-6	Mercury	mg/kg	0.035 B	0.055 B	0.062 B	0.026 B	0.025 B	0.049 B
7440-02-0	Nickel	mg/kg	12	15.6	20.7	21.6	19.8	14.5
7440-09-7	Potassium	mg/kg	722 J	757 J	729 J	1140 J	980 J	640 J
7782-49-2	Selenium	mg/kg	1.3 J	2 J	1.9 J	1.5 J	1.1	2.1 J
7440-22-4	Silver	mg/kg	0.053 J	0.041 J	0.24 U	0.025 J	0.029 J	0.047 J
7440-23-5	Sodium	mg/kg	38.2 J	22.5 J	46.4 J	72.6	70.1	57.6 J
7440-28-0	Thallium	mg/kg	0.064 B	0.75 U	1.5 U	0.3 U	0.3 U	0.3 U
7440-62-2	Vanadium	mg/kg	11.6	14.6	11.2	24.1	25.1	14.8
7440-66-6	Zinc	mg/kg	55.7 J	3510 J	8310 J	62.1 J	57.6 J	222 J
<b>Explosives</b>								
99-35-4	1,3,5-Trinitrobenzene	ug/kg	230 J	160 U	450 J	140 U	130 J	140 U
99-65-0	1,3-Dinitrobenzene	ug/kg	55 J	160 U	310 U	140 U	140 U	140 U
118-96-7	2,4,6-trinitrotoluene	ug/kg	23000	160 U	1400	140 U	240 J	140 U
121-14-2	2,4-dinitrotoluene	ug/kg	140 U	160 U	760	140 U	840	140 U
606-20-2	2,6-dinitrotoluene	ug/kg	140 U	160 U	310 J	140 U	370	140 U
35572-78-2	2-amino-4,6-dinitrotoluene	ug/kg	3100	160 U	3400	140 U	1700	140 U
88-72-2	2-nitrotoluene	ug/kg	140 U	160 U	430 J	140 U	140 U	140 U
99-08-1	3-nitrotoluene	ug/kg	140 U	160 U	310 U	140 U	140 U	140 U
19406-51-0	4-amino-2,6-dinitrotoluene	ug/kg	2100	160 U	2200	140 U	810	140 U
99-99-0	4-Nitrotoluene	ug/kg	140 U	160 U	310 U	140 U	140 U	140 U
2691-41-0	HMX	ug/kg	140 U	160 U	310 U	140 U	140 U	140 U
98-95-3	Nitrobenzene	ug/kg	140 U	160 U	310 U	140 U	140 U	140 U

SUMMARY OF ANALYTICAL RESULTS  
 OCCIDENTAL CHEMICAL CORPORATION DATA GAP SAMPLING EVENT - AUGUST 2010  
 LAKE ONTARIO ORDNANCE WORKS

Location:		C10-GS2-P22	C10-GS2-P23	C10-GS2-P23	C10-GS2-P23	C10-GS2-P23	C10-GS2-P24
Sample Name:		C2-OXY-SO-P22-3	C2-OXY-SO-P23-1	C2-OXY-SO-DUPE1	C2-OXY-SO-P23-3	C2-OXY-SO-P2-03 DUP	C2-OXY-SO-P24-1
Parent Sample:				C2-OXY-SO-P23-1		C2-OXY-SO-P23-3	
Sample Date:		8/27/2010	8/27/2010	8/27/2010	8/27/2010	8/27/2010	8/27/2010
Sample Depth:		2.5 - 3 ft	0.5 - 1 ft	0.5 - 1 ft	2.5 - 3 ft	2.5 - 3 ft	0.5 - 1 ft
CAS	Analyte	Units					
121-82-4	RDX	ug/kg	140 U	160 U	310 U	140 U	140 U
479-45-8	Tetryl	ug/kg	140 U	160 U	310 U	140 U	140 U
<b>Radionuclides</b>							
13981-16-3	Plutonium-238	pCi/g	--	--	--	--	--
	Plutonium-239/240	pCi/g	--	--	--	--	--
13982-10-0	Plutonium-242	pCi/g	--	--	--	--	--
14119-34-7	Plutonium-244	pCi/g	--	--	--	--	--
14932-40-2	Thorium-231	pCi/g	--	--	--	--	--
15065-10-8	Thorium-234	pCi/g	--	--	--	--	--
13966-29-5	Uranium-234	pCi/g	--	--	--	--	--
15117-96-1	Uranium-235	pCi/g	--	--	--	--	--
7440-61-1	Uranium-238	pCi/g	--	--	--	--	--
13982-63-3	Radium-226	pCi/g	--	--	--	--	--
7440-24-6	Strontium	pCi/g	--	--	--	--	--
12587-46-1	Alpha	pCi/g	--	--	--	--	--
12587-47-2	Beta	pCi/g	--	--	--	--	--
<b>Other</b>							
	Percent Solids	%	85.2	74.2	38.2	87.3	84.3

CAS = Chemical Abstracts Service Registry Number

-- = Analyte was not measured

B = Probably blank contamination

J = Estimated value

N = Tentatively identified compound

U = Not detected; the associated number is the limit of detection

mg/kg = milligrams per kilogram

ug/kg = micrograms per kilogram

pCi/g = Picocuries per gram

% = percent

SUMMARY OF ANALYTICAL RESULTS  
 OCCIDENTAL CHEMICAL CORPORATION DATA GAP SAMPLING EVENT - AUGUST 2010  
 LAKE ONTARIO ORDNANCE WORKS

Location:		C10-GS2-P24	C10-GS2-PE	C10-GS2-PE	C10-GS2-PN	C10-GS2-PN	C10-GS2-PS	C10-GS2-PS	
Sample Name:		C2-OXY-SO-P24-3	C2-OXY-SO-PE-0.5	C2-OXY-SO-PE-1	C2-OXY-SO-PN-0.5	C2-OXY-SO-PN-1	C2-OXY-SO-PS-0.5	C2-OXY-SO-PS-1	
Parent Sample:									
Sample Date:		8/27/2010	8/23/2010	8/23/2010	8/23/2010	8/23/2010	8/23/2010	8/23/2010	
Sample Depth:		2.5 - 3 ft	0 - 0.5 ft	1.0 - 1.5 ft	0 - 0.5 ft	1.0 - 1.5 ft	0 - 0.5 ft	1.0 - 1.5 ft	
CAS	Analyte	Units							
<b>Metals</b>									
7429-90-5	Aluminum	mg/kg	10800	2190	1840	9550	5110	8570	9400
7440-36-0	Antimony	mg/kg	1.2 U	0.93 J	3 UJ	1.2 J	3.7 J	1.2 J	3 UJ
7440-38-2	Arsenic	mg/kg	5.2	7.4	5.4	6.1	27.1	2.6 J	1.5 J
7440-39-3	Barium	mg/kg	130	648	62.8	4860	3840	3920	414
7440-41-7	Beryllium	mg/kg	0.68	0.25 J	0.36 J	0.69	0.29 J	0.35 J	0.58
7440-42-8	Boron	mg/kg	19.2 B	45 U	45 U	45 U	45 U	45 U	45 U
7440-43-9	Cadmium	mg/kg	0.088 J	1.3	0.14 J	0.82	1.1	0.52	0.31
7440-70-2	Calcium	mg/kg	68000 J	1500	1540	4830	15100	2970	1920
7440-47-3	Chromium	mg/kg	18.3	22.9 J	6.2 J	92.7 J	157 J	307 J	92 J
18540-29-9	Chromium (hexavalent)	mg/kg	0.23 U	1.1 J	0.65 J	1.9 J	1.6 J	12.7 J	12.4 J
7440-48-4	Cobalt	mg/kg	9.9	2.6	3.5	4.9	12.7	4.3	4.9
7440-50-8	Copper	mg/kg	28	60.3	19.9	167	301	188	38.3
7439-89-6	Iron	mg/kg	25000	13800	11700	22200	182000	21000	9760
7439-92-1	Lead	mg/kg	7.4	292	37.7	145	75.6	76.7	10.8
7439-93-2	Lithium	mg/kg	18.6	2.1 J	1.6 J	7	2.4 J	11.2	17.3
7439-95-4	Magnesium	mg/kg	7830 J	2940	632	22000	22200	9150	4340
7439-96-5	Manganese	mg/kg	1150 J	77.6	18.5	171	667	167	85.1
7439-97-6	Mercury	mg/kg	0.023 B	0.093	0.024 J	0.03 J	0.023 J	0.042	0.046
7440-02-0	Nickel	mg/kg	21.1	9.3 J	6.8 J	21.8 J	104 J	23.2 J	14 J
7440-09-7	Potassium	mg/kg	1170 J	276	421	392	270	615	844
7782-49-2	Selenium	mg/kg	1.5	0.66 J	0.6 J	0.72 J	0.29 J	0.93 J	1.5 J
7440-22-4	Silver	mg/kg	0.036 J	0.078 J	0.12 U	0.13 J	0.21 J	0.15 J	0.058 J
7440-23-5	Sodium	mg/kg	112	42.4 J	46 J	49.2 J	79 J	29.3 J	28.6 J
7440-28-0	Thallium	mg/kg	0.39 B	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
7440-62-2	Vanadium	mg/kg	27.7	7.1	8.7	11.9	7.1	8.6	12.3
7440-66-6	Zinc	mg/kg	55.9 J	2340 J	103 J	39200 J	35900 J	3780 J	324 J
<b>Explosives</b>									
99-35-4	1,3,5-Trinitrobenzene	ug/kg	140 U	2500	1100	160 U	150 U	190 J	170 U
99-65-0	1,3-Dinitrobenzene	ug/kg	140 U	780	180 J	160 U	150 U	200 U	170 U
118-96-7	2,4,6-trinitrotoluene	ug/kg	140 U	4200	760 J	160 U	150 U	200 U	170 U
121-14-2	2,4-dinitrotoluene	ug/kg	140 U	3300	280 NJ	160 U	150 U	220 NJ	170 U
606-20-2	2,6-dinitrotoluene	ug/kg	140 U	1600	950 NJ	160 U	150 U	200 U	170 U
35572-78-2	2-amino-4,6-dinitrotoluene	ug/kg	140 U	1000	190 NJ	160 U	150 U	300 J	68 NJ
88-72-2	2-nitrotoluene	ug/kg	140 U	150 U	150 U	160 U	150 U	200 U	170 U
99-08-1	3-nitrotoluene	ug/kg	140 U	150 U	150 U	160 U	150 U	200 U	170 U
19406-51-0	4-amino-2,6-dinitrotoluene	ug/kg	140 U	150 U	150 U	160 U	150 U	410 J	200 NJ
99-99-0	4-Nitrotoluene	ug/kg	140 U	150 U	150 U	160 U	150 U	200 U	170 U
2691-41-0	HMX	ug/kg	140 U	150 U	150 U	160 U	150 U	200 U	79 J
98-95-3	Nitrobenzene	ug/kg	140 U	150 U	150 U	160 U	150 U	200 U	170 U

SUMMARY OF ANALYTICAL RESULTS  
 OCCIDENTAL CHEMICAL CORPORATION DATA GAP SAMPLING EVENT - AUGUST 2010  
 LAKE ONTARIO ORDNANCE WORKS

Location:			C10-GS2-P24	C10-GS2-PE	C10-GS2-PE	C10-GS2-PN	C10-GS2-PN	C10-GS2-PS	C10-GS2-PS
Sample Name:			C2-OXY-SO-P24-3	C2-OXY-SO-PE-0.5	C2-OXY-SO-PE-1	C2-OXY-SO-PN-0.5	C2-OXY-SO-PN-1	C2-OXY-SO-PS-0.5	C2-OXY-SO-PS-1
Parent Sample:									
Sample Date:			8/27/2010	8/23/2010	8/23/2010	8/23/2010	8/23/2010	8/23/2010	8/23/2010
Sample Depth:			2.5 - 3 ft	0 - 0.5 ft	1.0 - 1.5 ft	0 - 0.5 ft	1.0 - 1.5 ft	0 - 0.5 ft	1.0 - 1.5 ft
CAS	Analyte	Units							
121-82-4	RDX	ug/kg	140 U	270 J	150 U	160 U	150 U	200 U	170 U
479-45-8	Tetryl	ug/kg	140 U	150 U	150 U	160 U	150 U	204 U	167 U
<b>Radionuclides</b>									
13981-16-3	Plutonium-238	pCi/g	--	--	--	--	--	--	--
	Plutonium-239/240	pCi/g	--	--	--	--	--	--	--
13982-10-0	Plutonium-242	pCi/g	--	--	--	--	--	--	--
14119-34-7	Plutonium-244	pCi/g	--	--	--	--	--	--	--
14932-40-2	Thorium-231	pCi/g	--	--	--	--	--	--	--
15065-10-8	Thorium-234	pCi/g	--	--	--	--	--	--	--
13966-29-5	Uranium-234	pCi/g	--	--	--	--	--	--	--
15117-96-1	Uranium-235	pCi/g	--	--	--	--	--	--	--
7440-61-1	Uranium-238	pCi/g	--	--	--	--	--	--	--
13982-63-3	Radium-226	pCi/g	--	--	--	--	--	--	--
7440-24-6	Strontium	pCi/g	--	--	--	--	--	--	--
12587-46-1	Alpha	pCi/g	--	--	--	--	--	--	--
12587-47-2	Beta	pCi/g	--	--	--	--	--	--	--
<b>Other</b>									
	Percent Solids	%	87	78.3	79.3	74.8	80.3	58.8	71.9

CAS = Chemical Abstracts Service Registry Number

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B = Probably blank contamination

J = Estimated value

N = Tentatively identified compound

U = Not detected; the associated number is the limit of detection

mg/kg = milligrams per kilogram

ug/kg = micrograms per kilogram

pCi/g = Picocuries per gram

% = percent

SUMMARY OF ANALYTICAL RESULTS  
 OCCIDENTAL CHEMICAL CORPORATION DATA GAP SAMPLING EVENT - AUGUST 2010  
 LAKE ONTARIO ORDNANCE WORKS

Location:		C10-GS2-PW	C10-GS2-PW	C10-GS2-SIN	C10-GS2-SIN	C10-GS2-SIS	C10-GS2-SIS	C10-GS2-SIW
Sample Name:		C2-OXY-SO-PW-0.5	C2-OXY-SO-PW-1	C2-OXY-SO-SIN-1	C2-OXY-SO-SIN-3	C2-OXY-SO-SIS-1	C2-OXY-SO-SIS-3	C2-OXY-SO-SIW-1
Parent Sample:								
Sample Date:		8/23/2010	8/23/2010	8/27/2010	8/27/2010	8/27/2010	8/27/2010	8/27/2010
Sample Depth:		0 - 0.5 ft	1.0 - 1.5 ft	0.5 - 1 ft	2.5 - 3 ft	0.5 - 1 ft	2.5 - 3 ft	0.5 - 1 ft
CAS	Analyte	Units						
<b>Metals</b>								
7429-90-5	Aluminum	mg/kg	6850	6760	6170	11500	11500	11200
7440-36-0	Antimony	mg/kg	3 UJ	3 UJ	6 U	1.2 U	15 U	1.2 U
7440-38-2	Arsenic	mg/kg	1.7 J	1.7 J	3.7 J	2.9	8.8 J	4.5
7440-39-3	Barium	mg/kg	98.3	99.6	3850	132	858	118
7440-41-7	Beryllium	mg/kg	0.68	0.5 J	0.32 J	0.65	0.75 U	0.72
7440-42-8	Boron	mg/kg	45 U	45 U	57.2 J	7.6 B	225 UJ	18 UJ
7440-43-9	Cadmium	mg/kg	0.43	0.28 J	5.7	0.1	49.2	0.14
7440-70-2	Calcium	mg/kg	3190	3230	20500 J	2730 J	3960 J	3680 J
7440-47-3	Chromium	mg/kg	9.6 J	9.6 J	145	18.4	39.1	18.2
18540-29-9	Chromium (hexavalent)	mg/kg	0.29 UJ	0.67 J	5.8	0.24 U	0.43 J	0.25 U
7440-48-4	Cobalt	mg/kg	2.9	2.8	18.1	12.3	6	10.2
7440-50-8	Copper	mg/kg	20.4	20.6	164	28.8	1600	30.5
7439-89-6	Iron	mg/kg	5960	6280	21600	22600	21100	25900
7439-92-1	Lead	mg/kg	8.6	8.6	673	6	1460	7.9
7439-93-2	Lithium	mg/kg	10.1	9.8	4.7 J	18.5	3.8 J	17.6
7439-95-4	Magnesium	mg/kg	1670	1680	46100 J	5190 J	5210 J	4900 J
7439-96-5	Manganese	mg/kg	56.5	59.3	395 J	263 J	183 J	198 J
7439-97-6	Mercury	mg/kg	0.062	0.05	0.62 B	0.033 B	0.064 B	0.026 B
7440-02-0	Nickel	mg/kg	9 J	9.1 J	306	23.4	111	21.2
7440-09-7	Potassium	mg/kg	362	343	398 J	718 J	322 J	645 J
7782-49-2	Selenium	mg/kg	2.3 J	1.7 J	1.5 U	1.4	3.75 U	1.5
7440-22-4	Silver	mg/kg	0.063 J	0.045 J	0.15 J	0.032 J	0.55 J	0.041 J
7440-23-5	Sodium	mg/kg	29.6 J	27 J	182 J	87.4	104 J	67.4
7440-28-0	Thallium	mg/kg	1 J	0.31 J	1.5 U	0.3 U	3.75 U	0.3 U
7440-62-2	Vanadium	mg/kg	10.6	11	14.9	29.3	52.5 U	26.5
7440-66-6	Zinc	mg/kg	33.4 J	34 J	5510 J	49.9 J	14000 J	54.4 J
<b>Explosives</b>								
99-35-4	1,3,5-Trinitrobenzene	ug/kg	170 U	170 U	190 U	140 U	150 U	410
99-65-0	1,3-Dinitrobenzene	ug/kg	170 U	170 U	190 U	140 U	150 U	150 J
118-96-7	2,4,6-trinitrotoluene	ug/kg	170 U	170 U	330 J	70 J	150 U	4500
121-14-2	2,4-dinitrotoluene	ug/kg	170 U	170 U	320 J	140 U	3400	700
606-20-2	2,6-dinitrotoluene	ug/kg	170 U	170 U	150 J	140 U	670	290 J
35572-78-2	2-amino-4,6-dinitrotoluene	ug/kg	170 U	170 U	120 J	140 U	150 U	980 J
88-72-2	2-nitrotoluene	ug/kg	170 U	170 U	190 U	140 U	100 J	140 U
99-08-1	3-nitrotoluene	ug/kg	170 U	170 U	190 U	140 U	150 U	140 U
19406-51-0	4-amino-2,6-dinitrotoluene	ug/kg	170 U	170 U	190 U	140 U	150 U	460
99-99-0	4-Nitrotoluene	ug/kg	170 U	170 U	170 U	140 U	110 J	140 U
2691-41-0	HMX	ug/kg	170 U	170 U	190 U	140 U	150 U	140 U
98-95-3	Nitrobenzene	ug/kg	170 U	170 U	190 U	140 U	150 U	140 U

SUMMARY OF ANALYTICAL RESULTS  
 OCCIDENTAL CHEMICAL CORPORATION DATA GAP SAMPLING EVENT - AUGUST 2010  
 LAKE ONTARIO ORDNANCE WORKS

Location:		C10-GS2-PW	C10-GS2-PW	C10-GS2-SIN	C10-GS2-SIN	C10-GS2-SIS	C10-GS2-SIS	C10-GS2-SIW	
Sample Name:		C2-OXY-SO-PW-0.5	C2-OXY-SO-PW-1	C2-OXY-SO-SIN-1	C2-OXY-SO-SIN-3	C2-OXY-SO-SIS-1	C2-OXY-SO-SIS-3	C2-OXY-SO-SIW-1	
Parent Sample:									
Sample Date:		8/23/2010	8/23/2010	8/27/2010	8/27/2010	8/27/2010	8/27/2010	8/27/2010	
Sample Depth:		0 - 0.5 ft	1.0 - 1.5 ft	0.5 - 1 ft	2.5 - 3 ft	0.5 - 1 ft	2.5 - 3 ft	0.5 - 1 ft	
CAS	Analyte	Units							
121-82-4	RDX	ug/kg	170 U	170 U	190 U	140 U	150 U	140 U	160 U
479-45-8	Tetryl	ug/kg	170 U	170 U	190 U	140 U	150 U	140 U	160 U
<b>Radionuclides</b>									
13981-16-3	Plutonium-238	pCi/g	--	--	--	--	--	--	--
	Plutonium-239/240	pCi/g	--	--	--	--	--	--	--
13982-10-0	Plutonium-242	pCi/g	--	--	--	--	--	--	--
14119-34-7	Plutonium-244	pCi/g	--	--	--	--	--	--	--
14932-40-2	Thorium-231	pCi/g	--	--	--	--	--	--	--
15065-10-8	Thorium-234	pCi/g	--	--	--	--	--	--	--
13966-29-5	Uranium-234	pCi/g	--	--	--	--	--	--	--
15117-96-1	Uranium-235	pCi/g	--	--	--	--	--	--	--
7440-61-1	Uranium-238	pCi/g	--	--	--	--	--	--	--
13982-63-3	Radium-226	pCi/g	--	--	--	--	--	--	--
7440-24-6	Strontium	pCi/g	--	--	--	--	--	--	--
12587-46-1	Alpha	pCi/g	--	--	--	--	--	--	--
12587-47-2	Beta	pCi/g	--	--	--	--	--	--	--
<b>Other</b>									
	Percent Solids	%	69.6	69	62.6	83.1	81.3	82.8	75.3

CAS = Chemical Abstracts Service Registry Number

-- = Analyte was not measured

B = Probably blank contamination

J = Estimated value

N = Tentatively identified compound

U = Not detected; the associated number is the limit of detection

mg/kg = milligrams per kilogram

ug/kg = micrograms per kilogram

pCi/g = Picocuries per gram

% = percent

SUMMARY OF ANALYTICAL RESULTS  
 OCCIDENTAL CHEMICAL CORPORATION DATA GAP SAMPLING EVENT - AUGUST 2010  
 LAKE ONTARIO ORDNANCE WORKS

Location:		C10-GS2-SIW	C10-GS2-SOE	C10-GS2-SOE	C10-GS2-Y20
Sample Name:		C2-OXY-SO-SIW-3	C2-OXY-SO-SOE-1	C2-OXY-SO-SOE-3	C2-OXY-SO-Y20
Parent Sample:					
Sample Date:		8/27/2010	8/27/2010	8/27/2010	8/27/2010
Sample Depth:		2.5 - 3 ft	0.5 - 1 ft	2.5 - 3 ft	0 - 0.5 ft
CAS	Analyte	Units			
<b>Metals</b>					
7429-90-5	Aluminum	mg/kg	5160	3550	8700
7440-36-0	Antimony	mg/kg	3 U	6 U	0.6 U
7440-38-2	Arsenic	mg/kg	3.8 J	18.7	2.4
7440-39-3	Barium	mg/kg	168	369	154
7440-41-7	Beryllium	mg/kg	0.26 J	0.35 J	0.58
7440-42-8	Boron	mg/kg	45 UJ	90 UJ	5.2 B
7440-43-9	Cadmium	mg/kg	0.073 J	0.85	1.5
7440-70-2	Calcium	mg/kg	36800 J	17300 J	3390 J
7440-47-3	Chromium	mg/kg	8.7	15.8	13.6
18540-29-9	Chromium (hexavalent)	mg/kg	0.25 U	0.26 U	0.61
7440-48-4	Cobalt	mg/kg	6.5	5.2	3.7
7440-50-8	Copper	mg/kg	23.8	52.6	37.7
7439-89-6	Iron	mg/kg	14600	26600	9540
7439-92-1	Lead	mg/kg	3.3	365	29.2
7439-93-2	Lithium	mg/kg	10.5	6.1 J	15.2
7439-95-4	Magnesium	mg/kg	5810 J	2220 J	1960 J
7439-96-5	Manganese	mg/kg	1790 J	320 J	83.1 J
7439-97-6	Mercury	mg/kg	0.024 B	0.32	0.07 B
7440-02-0	Nickel	mg/kg	12.6	18	13.5
7440-09-7	Potassium	mg/kg	480 J	443 J	452 J
7782-49-2	Selenium	mg/kg	0.9 J	4.9 J	1.6
7440-22-4	Silver	mg/kg	0.12 U	0.24 U	0.12 J
7440-23-5	Sodium	mg/kg	74 J	77 J	36.5 J
7440-28-0	Thallium	mg/kg	0.75 U	1.5 U	0.1 J
7440-62-2	Vanadium	mg/kg	13.2	11.4	14.7
7440-66-6	Zinc	mg/kg	29 J	689 J	115 J
<b>Explosives</b>					
99-35-4	1,3,5-Trinitrobenzene	ug/kg	150 U	350	140 U
99-65-0	1,3-Dinitrobenzene	ug/kg	150 U	130 J	140 U
118-96-7	2,4,6-trinitrotoluene	ug/kg	150 U	1000	140 J
121-14-2	2,4-dinitrotoluene	ug/kg	150 U	1100	130 J
606-20-2	2,6-dinitrotoluene	ug/kg	150 U	390 J	140 U
35572-78-2	2-amino-4,6-dinitrotoluene	ug/kg	150 U	260 J	140 U
88-72-2	2-nitrotoluene	ug/kg	150 U	150 U	140 U
99-08-1	3-nitrotoluene	ug/kg	150 U	150 U	140 U
19406-51-0	4-amino-2,6-dinitrotoluene	ug/kg	150 U	150 U	140 U
99-99-0	4-Nitrotoluene	ug/kg	150 U	150 U	140 U
2691-41-0	HMX	ug/kg	150 U	150 U	140 U
98-95-3	Nitrobenzene	ug/kg	150 U	150 U	140 U

SUMMARY OF ANALYTICAL RESULTS  
 OCCIDENTAL CHEMICAL CORPORATION DATA GAP SAMPLING EVENT - AUGUST 2010  
 LAKE ONTARIO ORDNANCE WORKS

Location:		C10-GS2-SIW	C10-GS2-SOE	C10-GS2-SOE	C10-GS2-Y20	
Sample Name:		C2-OXY-SO-SIW-3	C2-OXY-SO-SOE-1	C2-OXY-SO-SOE-3	C2-OXY-SO-Y20	
Parent Sample:						
Sample Date:		8/27/2010	8/27/2010	8/27/2010	8/27/2010	
Sample Depth:		2.5 - 3 ft	0.5 - 1 ft	2.5 - 3 ft	0 - 0.5 ft	
CAS	Analyte	Units				
121-82-4	RDX	ug/kg	150 U	150 U	140 U	--
479-45-8	Tetryl	ug/kg	150 U	150 U	140 U	--
<b>Radionuclides</b>						
13981-16-3	Plutonium-238	pCi/g	--	--	--	-0.003 U
	Plutonium-239/240	pCi/g	--	--	--	0.037
13982-10-0	Plutonium-242	pCi/g	--	--	--	0.002 U
14119-34-7	Plutonium-244	pCi/g	--	--	--	0.0029 U
14932-40-2	Thorium-231	pCi/g	--	--	--	0.055 J
15065-10-8	Thorium-234	pCi/g	--	--	--	1.28
13966-29-5	Uranium-234	pCi/g	--	--	--	1.4
15117-96-1	Uranium-235	pCi/g	--	--	--	0.055 J
7440-61-1	Uranium-238	pCi/g	--	--	--	1.28
13982-63-3	Radium-226	pCi/g	--	--	--	2.06
7440-24-6	Strontium	pCi/g	--	--	--	0.08 U
12587-46-1	Alpha	pCi/g	--	--	--	32.8
12587-47-2	Beta	pCi/g	--	--	--	27.2
<b>Other</b>						
	Percent Solids	%	82.2	78.2	83.9	--

CAS = Chemical Abstracts Service Registry Number

-- = Analyte was not measured

B = Probably blank contamination

J = Estimated value

N = Tentatively identified compound

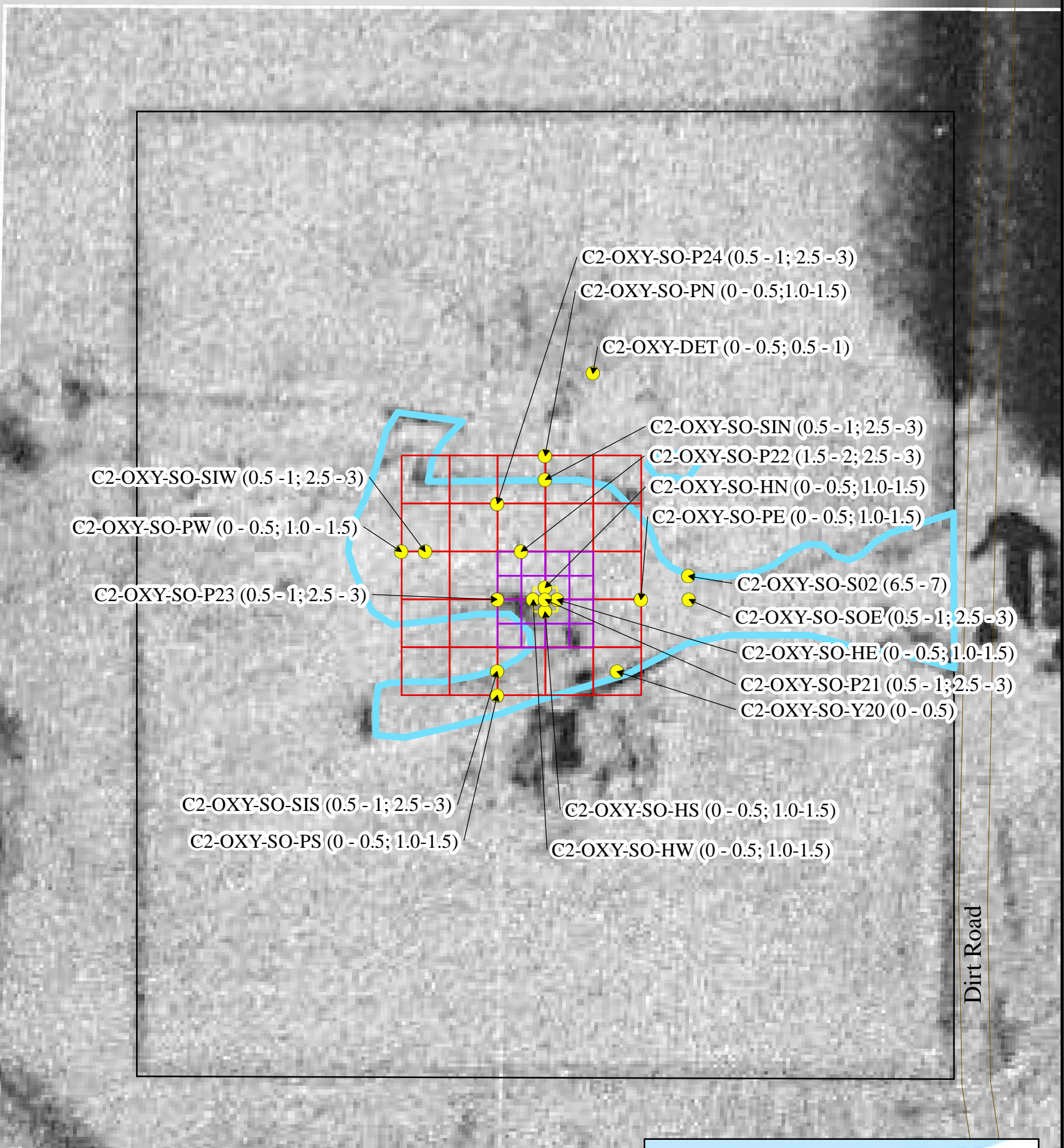
U = Not detected; the associated number is the limit of detection

mg/kg = milligrams per kilogram

ug/kg = micrograms per kilogram

pCi/g = Picocuries per gram

% = percent



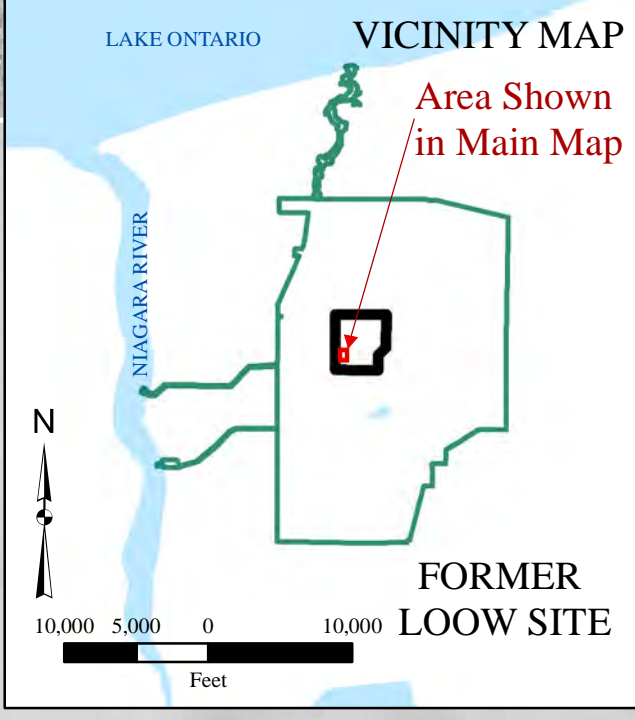
**LEGEND**

- OCCIDENTAL EU 8 DATA GAP SAMPLE LOCATIONS (LOCATION NAMES ARE FOLLOWED BY SAMPLE DEPTH INTERVALS IN FT BGS)
- APPROXIMATE LOCATION OF AREAS WITHIN EU8 THAT ARE SLIGHTLY ELEVATED (BORDER FROM 1944 AERIAL PHOTO) (TEC 2002)
- SAMPLING GRID (5X5 FEET)
- SAMPLING GRID (10X10 FEET)
- SAMPLING GRID (20X20 FEET)
- ROADS

N

50 25 0 50  
Feet

NOTE:  
MAP PROJECTION IS NEW YORK STATE PLANE NAD83 FEET.  
PARCEL IDENTIFICATION AND BOUNDARY DATA PROVIDED BY  
NIAGARA COUNTY TAX PARCEL IDENTIFICATION DATABASE (2010).  
AERIAL DATE - 1944  
FT BGS = FEET BELOW GROUND SURFACE



**LAKE ONTARIO ORDNANCE WORKS  
NIAGARA COUNTY, NEW YORK**

**AUGUST 2010 SAMPLE  
LOCATIONS FOR THE  
OCCIDENTAL CHEMICAL  
CORPORATION PROPERTY**

\\Loverton\external\gis\data\Northeast\New York\LOOW\Phase4MXD\Occidental AnalyticSamp.mxd