October 20, 2015

Eric Kirwan
United States Army Corps of Engineers, Fort Worth District
819 Taylor Street
Fort Worth, Texas 76102

Re: FINAL SAMPLING RESULTS FOR THE AREA OF CONTAMINATION FOR THE HAZARDOUS WASTE MANAGEMENT UNIT REMOVAL ACTIONS, AT FORT WINGATE DEPOT ACTIVITY, MCKINLEY COUNTY, NEW MEXICO.

Dear Mr. Kirwan,

The purpose of this letter is to provide the results of the post remediation sampling completed within the approved Area of Contamination (AOC) utilized during remediation activities in the Hazardous Waste Management Unit (HWMU). The AOC boundary included approximately 3.7 acres located on the southeast corner of the HWMU boundary as shown in Figure 1.

The primary purpose of the AOC was to facilitate the staging and segregation of remediation waste within the Fort Wingate Depot Activity (FWDA). The AOC was used as a reserve and special waste stockpile for excavated soils from within the HWMU boundary per the approved 2011 HWMU Work Plan and addressed the following needs:

- Increased the overall separation of work areas resulting in safer work conditions for workers and the environment
- Provided flexibility for on-site management of waste while in the process of making final waste determinations, as well as managing materials that will be staged until they are returned to the excavation
- Provided an area to separate and stockpile non-hazardous and hazardous fill for future testing, treatment, and/or disposal
- Provided staging areas away from cleanup operations for non-hazardous and hazardous waste removal operations

Closure soil sampling was conducted throughout the AOC footprint to document the conditions after completion of the HWMU remediation and stockpile activities. The closure sampling included six composite surface soil samples. The AOC was divided into six areas and one sample was collected from within each area.

From each area, one discrete soil sample was collected and for VOCs and one composite sample was collected and analyzed for TAL metals, SVOC, explosives, PCB aroclors, nitrate, cyanide,

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dioxins, furans, and perchlorate. The composite samples were comprised of nine subsamples randomly collected from within each sampling area. The sampling areas are shown on Figure 1.

The analytical results were screened against the NMED residential soil screening levels and the EPA regional screening levels. There were no exceedances of screening values for any of the constituents. The analytical results are presented Table 1.

If you have any questions or require additional information please contact us as soon as practicable.

Sincerely,

URS GROUP, INC.

John Carson, PE
Project Manager

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12120 Shamrock Plaza,
Omaha, NE 68154
Tel: 402.334.8181
Fax: 402.334.1984

P3HWMU-AOC-GRID-10

P3HWMU-AOC-GRID-07

P3HWMU-AOC-GRID-11

P3HWMU-AOC-GRID-08

P3HWMU-AOC-GRID-12

P3HWMU-AOC-GRID-09

N

0 30 60 120

Feet

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Legend

- HWMU
- Arroyo
- Road
- Fence
- AOC
- Sample Grid

AOC Closure Sampling Locations
Fort Wingate Depot Activity
McKinley County, New Mexico

Drawn By: JZ	Date: 9/30/2015
Checked By: JC	Project No: 16170613

Figure 1

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TABLE 1 SUMMARY OF ANALYTICAL DATA

FIELD ID / DATE COLLECTED	CAS Number	Residential Value	Source	Endpoint	P3HWMU-AOC-GRID-07 July 23, 2015						P3HWMU-AOC-GRID-08 July 23, 2015					
					Result	LOQ	LOD	DL	Lab Qualifier	Validation Qualifier	Result	LOQ	LOD	DL	Lab Qualifier	Validation Qualifier
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
1,1,1,2-Tetrachloroethane	630-20-6	28.1	NMED	c	0.0022UJ	0.0055	0.0022	0.0011	U	UJ	0.0022U	0.0055	0.0022	0.0011	U	
1,1,1-Trichloroethane	71-55-6	14400	NMED	n	0.0022U	0.0055	0.0022	0.0009	U		0.0022U	0.0055	0.0022	0.00088	U	
1,1,2,2-Tetrachloroethane	79-34-5	7.98	NMED	c	0.0022UJ	0.0055	0.0022	0.0014	U	UJ	0.0022U	0.0055	0.0022	0.0014	U	
1,1,2-Trichloroethane	79-00-5	2.61	NMED	n	0.0022UJ	0.0055	0.0022	0.0011	U	UJ	0.0022U	0.0055	0.0022	0.001	U	
1,1-Dichloroethane	75-34-3	78.6	NMED	c	0.0022U	0.011	0.0022	0.0013	U	UJ	0.0022U	0.011	0.0022	0.0012	U	
1,1-Dichloroethene	75-35-4	440	NMED	n	0.0022U	0.0055	0.0022	0.00088	U		0.0022U	0.0055	0.0022	0.00086	U	
1,1-Dichloropropene	563-58-6	29.3	NMED[S]	c	0.0022U	0.0055	0.0022	0.00094	U		0.0022U	0.0055	0.0022	0.00093	U	
1,2,3-Trichlorobenzene	87-61-6	49	RSL	n	0.001J	0.0055	0.0022	0.00055	J	J	0.0013J	0.0055	0.0022	0.00055	J	
1,2,3-Trichloropropane	96-18-4	0.051	NMED	c	0.0055UJ	0.022	0.0055	0.0014	U	UJ	0.0055U	0.022	0.0055	0.0014	U	
1,2,4-Trichlorobenzene	120-82-1	82.9	NMED	n	0.001J	0.0055	0.0022	0.00058	J	J	0.0013J	0.0055	0.0022	0.00057	J	
1,2,4-Trimethylbenzene	95-63-6	58	RSL	n	0.0022UJ	0.0055	0.0022	0.0013	U	UJ	0.0022U	0.0055	0.0022	0.0013	U	
1,2-Dibromo-3-Chloropropane	96-12-8	0.0858	NMED	c	0.0055UJ	0.011	0.0055	0.0024	U	UJ	0.0055U	0.011	0.0055	0.0024	U	
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.672	NMED	c	0.0022UJ	0.0055	0.0022	0.00067	U	UJ	0.0022U	0.0055	0.0022	0.00066	U	
1,2-Dichlorobenzene	95-50-1	2150	NMED	n	0.0022UJ	0.0055	0.0022	0.0011	U	UJ	0.0022U	0.0055	0.0022	0.001	U	
1,2-Dichloroethane	107-06-2	8.32	NMED	c	0.0022UJ	0.0055	0.0022	0.00085	U	UJ	0.0022U	0.0055	0.0022	0.00084	U	
1,2-Dichloropropane	78-87-5	17.8	NMED	c	0.0022UJ	0.0055	0.0022	0.0008	U	UJ	0.0022U	0.0055	0.0022	0.00079	U	
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	780	RSL	n	0.0022UJ	0.0055	0.0022	0.0011	U	UJ	0.0022U	0.0055	0.0022	0.0011	U	
1,3-Dichlorobenzene	541-73-1	32.8	NMED[S]	c	0.0022UJ	0.0055	0.0022	0.00067	U	UJ	0.0022U	0.0055	0.0022	0.00066	U	
1,3-Dichloropropane	142-28-9	1600	RSL	n	0.0022UJ	0.0055	0.0022	0.00072	U	UJ	0.0022U	0.0055	0.0022	0.00071	U	
1,4-Dichlorobenzene	106-46-7	32.8	NMED	c	0.0022UJ	0.0055	0.0022	0.00074	U	UJ	0.0022U	0.0055	0.0022	0.00073	U	
2,2-Dichloropropane	594-20-7	17.8	NMED[S]	c	0.0022UJ	0.0055	0.0022	0.0012	U	UJ	0.0022U	0.0055	0.0022	0.0012	U	
2-Butanone	78-93-3	37400	NMED	n	0.011U	0.011	0.0033	0.0031	J	U	0.011U	0.011	0.0033	0.003		U
2-Chlorotoluene	95-49-8	1560	NMED	n	0.0022UJ	0.0055	0.0022	0.0011	U	UJ	0.0022U	0.0055	0.0022	0.0011	U	
2-Hexanone	591-78-6	200	RSL	n	0.011U	0.011	0.0022	0.00099	J	U	0.011U	0.011	0.0022	0.00097		U
4-Chlorotoluene	106-43-4	1600	RSL	n	0.0022UJ	0.0055	0.0022	0.0012	U	UJ	0.0022U	0.0055	0.0022	0.0011	U	
4-Methyl-2-Pentanone	108-10-1	5300	RSL	n	0.0022U	0.011	0.0022	0.001	U		0.011U	0.011	0.0022	0.001	J	U
Acetone	67-64-1	66300	NMED	n	0.074U	0.011	0.0055	0.0031		U	0.099U	0.011	0.0055	0.0031		U
Benzene	71-43-2	17.8	NMED	c	0.0077J	0.0055	0.0022	0.0007		J	0.0061	0.0055	0.0022	0.00069		
Bromobenzene	108-86-1	290	RSL	n	0.0022UJ	0.0055	0.0022	0.00084	U	UJ	0.0022U	0.0055	0.0022	0.00083	U	
Bromochloromethane	74-97-5	150	RSL	n	0.0022UJ	0.011	0.0022	0.0009	U	UJ	0.0022U	0.011	0.0022	0.00088	U	
Bromodichloromethane	75-27-4	6.19	NMED	c	0.0022UJ	0.0055	0.0022	0.00077	U	UJ	0.0022U	0.0055	0.0022	0.00075	U	
Bromoform	75-25-2	674	NMED	c	0.0022UJ	0.0055	0.0022	0.00089	U	UJ	0.0022U	0.0055	0.0022	0.00087	U	
Bromomethane	74-83-9	17.7	NMED	n	0.041	0.0055	0.0022	0.0018			0.072	0.0055	0.0022	0.0017		
Carbon Disulfide	75-15-0	1550	NMED	n	0.0022U	0.0055	0.0022	0.0012	U		0.0022U	0.0055	0.0022	0.0012	U	
Carbon Tetrachloride	56-23-5	10.7	NMED	c	0.0022U	0.0055	0.0022	0.00089	U		0.0022U	0.0055	0.0022	0.00087	U	
Chlorobenzene	108-90-7	378	NMED	n	0.0022UJ	0.0055	0.0022	0.00054	U	UJ	0.0022U	0.0055	0.0022	0.00053	U	
Chloroethane	75-00-3	19000	NMED	n	0.0022U	0.0055	0.0022	0.0017	U		0.0022U	0.0055	0.0022	0.0017	U	
Chloroform	67-66-3	5.9	NMED	c	0.0022UJ	0.0055	0.0022	0.0016	U	UJ	0.0022U	0.0055	0.0022	0.0016	U	
Chloromethane	74-87-3	41.1	NMED	c	0.014	0.0055	0.0055	0.002			0.015	0.0055	0.0055	0.002		
cis -1,2-Dichloroethene	156-59-2	156	NMED	n	0.0022UJ	0.011	0.0022	0.0012	U	UJ	0.0022U	0.011	0.0022	0.0012	U	
cis -1,3-Dichloropropene	10061-01-5	29.3	NMED[S]	c	0.0022UJ	0.0055	0.0022	0.001	U	UJ	0.0022U	0.0055	0.0022	0.001	U	
Dibromochloromethane	74-95-3	13.9	NMED	c	0.0022UJ	0.0055	0.0022	0.00094	U	UJ	0.0022U	0.0055	0.0022	0.00093	U	
Dibromomethane	124-48-1	57.9	NMED	n	0.0022UJ	0.0055	0.0022	0.00097	U	UJ	0.0022U	0.0055	0.0022	0.00095	U	
Dichlorodifluoromethane	75-71-8	182	NMED	n	0.0022UJ	0.011	0.0022	0.0015	U	UJ	0.0022U	0.011	0.0022	0.0014	U	
Ethylbenzene	100-41-4	75.1	NMED	c	0.0022UJ	0.0055	0.0022	0.0011	U	UJ	0.0022U	0.0055	0.0022	0.0011	U	
Hexachlorobutadiene	87-68-3	61.1	NMED	n	0.0022UJ	0.011	0.0022	0.0013	U	UJ	0.0022U	0.011	0.0022	0.0012	U	
Isopropylbenzene (Cumene)	98-82-8	2360	NMED	n	0.0022UJ	0.0055	0.0022	0.0012	U	UJ	0.0022U	0.0055	0.0022	0.0012	U	
m,p-Xylene (sum of isomers)	136777-61-2	764	NMED[S]	n	0.0055UJ	0.011	0.0055	0.0026	U	UJ	0.0055U	0.011	0.0055	0.0026	U	
Methyl t-Butyl Ether	1634-04-4	975	NMED	c	0.0022UJ	0.0055	0.0022	0.00099	U	UJ	0.0022U	0.0055	0.0022	0.00097	U	
Methylene Chloride	75-09-2	409	NMED	n	0.011UJ	0.055	0.011	0.0051	U	UJ	0.011U	0.055	0.011	0.005	U	
n-Butylbenzene	104-51-8	3900	RSL	n	0.0022UJ	0.0055	0.0022	0.0014	U	UJ	0.0022U	0.0055	0.0022	0.0014	U	
n-Propylbenzene	103-65-1	3300	RSL	n	0.0022UJ	0.0055	0.0022	0.0013	U	UJ	0.0022U	0.0055	0.0022	0.0013	U	
Naphthalene	91-20-3	49.7	NMED	c	0.007J	0.0055	0.0022	0.0012		J	0.008	0.0055	0.0022	0.0012		
o-Xylene	95-47-6	805	NMED	n	0.0022UJ	0.0055	0.0022	0.0011	U	UJ	0.0022U	0.0055	0.0022	0.0011	U	
p-Isopropyltoluene	99-87-6	2360	NMED[S]	n	0.0016J	0.0055	0.0022	0.0014	J	J	0.0018J	0.0055	0.0022	0.0014	J	
sec-Butylbenzene	135-98-8	7800	RSL	n	0.0022UJ	0.0055	0.0022	0.0012	U	UJ	0.0022U	0.0055	0.0022	0.0012	U	
Styrene	100-42-5	7260	NMED	n	0.0022UJ	0.0055	0.0022	0.0013	U	UJ	0.0022U	0.0055	0.0022	0.0013	U	
tert-Butylbenzene	98-06-6	7800	RSL	n	0.0022UJ	0.0055	0.0022	0.00084	U	UJ	0.0022U	0.0055	0.0022	0.00083	U	
Tetrachloroethene	127-18-4	111	NMED	n	0.00061J	0.0055	0.0022	0.0006	J	J	0.0022U	0.0055	0.0022	0.00059	U	
Toluene	108-88-3	5230	NMED	n	0.0047J	0.0055	0.0022	0.0014	J	J	0.0036J	0.0055	0.0022	0.0014	J	
trans -1,2-Dichloroethene	156-60-5	295	NMED	n	0.0022U	0.0055	0.0022	0.0015	U		0.0022U	0.0055	0.0022	0.0015	U	
trans -1,3-Dichloropropene	10061-02-6	29.3	NMED[S]	c	0.0022UJ	0.0055	0.0022	0.00087	U	UJ	0.0022U	0.0055	0.0022	0.00085	U	
Trichloroethene	79-01-6	6.77	NMED	n	0.0022UJ	0.0055	0.0022	0.0011	U	UJ	0.0022U	0.0055	0.0022	0.0011	U	
Trichlorofluoromethane	75-69-4	1230	NMED	n	0.0022U	0.0055	0.0022	0.0017	U		0.0022U	0.0055	0.0022	0.0017	U	
Vinyl Chloride	75-01-4	0.742	NMED	c	0.0022U	0.0055	0.0022	0.0019	U		0.0022U	0.0055	0.0022	0.0018	U	
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
1,2,4-Trichlorobenzene	120-82-1	82.9	NMED	n	0.19U	0.37	0.19	0.055	U		0.18U	0.36	0.18	0.054	U	
1,2-Dichlorobenzene	95-50-1	2150	NMED	n	0.19U	0.37	0.19	0.057	U		0.18U	0.36	0.18	0.056	U	
1,3-Dichlorobenzene	541-73-1	32.8	NMED[S]	c	0.19U	0.37	0.19	0.056	U		0.18U	0.36	0.18	0.055	U	
1,4-Dichlorobenzene	106-46-7	32.8	NMED	c	0.19U	0.37	0.19	0.054	U		0.18U	0.36	0.18	0.053	U	
2,4,5-Trichlorophenol	95-95-4	6160	NMED	n	0.19U	0.37	0.19	0.067	U		0.18U	0.36	0.18	0.066	U	
2,4,6-Trichlorophenol	88-06-2	61.6	NMED	n	0.19U	0.37	0.19	0.054	U		0.18U	0.36	0.18	0.053	U	
2,4-Dichlorophenol	120-83-2	185	NMED	n	0.19U	0.37	0.19	0.056	U		0.18U	0.36	0.18	0.055	U	
2,4-Dimethylphenol	105-67-9	1230	NMED	n	0.19U	0.37	0.19	0.049	U		0.18U	0.36	0.18	0.048	U	
2,4-Dinitrophenol	51-28-5	123	NMED	n	0.19U	0.73	0.19	0.06	U		0.18U	0.72	0.18	0.059	U	
2,4-Dinitrotoluene	121-14-2	17.1	NMED	c	0.19U	0.73	0.19	0.071	U		0.18U	0.72	0.18	0.07	U	
2,6-Dinitrotoluene	606-20-2	3.56	NMED	c	0.19U	0.73	0.19	0.067	U		0.18U	0.72	0.18	0.066	U	
2-Chloronaphthalene	91-58-7	6260	NMED	n	0.19U	0.37	0.19	0.058	U		0.18U	0.36	0.18	0.057	U	
2-Chlorophenol	95-57-8	391	NMED	n	0.19U	0.37	0.19	0.049	U		0.18U	0.36	0.18	0.048	U	
2-Methylnaphthalene	91-57-6	230	RSL	n	0.19U	0.37	0.19	0.056	U		0.18U	0.36	0.18	0.055	U	
2-Methylphenol (o-cresol)	95-48-7	3100	RSL	n	0.19U	0.37	0.19	0.05	U		0.18U	0.36	0.18	0.049	U	
2-Nitroaniline	88-74-4	610	RSL	n	0.19U	0.73	0.19	0.069	U		0.18U	0.72	0.18	0.068	U	
2-Nitrophenol	88-75-5	NS	NS	NA	0.19U	0.37	0.19	0.053	U		0.18U	0.36	0.18	0.052	U	
3,3-Dichlorobenzidine	91-94-1	11.8	NMED	c	0.19U	0.73	0.19	0.062	U		0.18U	0.72	0.18	0.061	U	
3-Nitroaniline	99-09-2	270	RSL[S]	c	0.19U	0.73	0.19	0.068	U		0.18U	0.72	0.18	0.067	U	
4,6-Dinitro-2-methylphenol	534-52-1	4.93	NMED	n	0.19U	0.73	0.19	0.063	U		0.18U	0.72	0.18	0.062	U	
4-Bromophenyl-phenylether	101-55-3	NS	NS	NA	0.19U	0.37	0.19	0.063	U		0.18U	0.36	0.18	0.062	U	
4-Chloro-3-methylphenol	59-50-7	6200	RSL	n	0.19U	0.37	0.19	0.065	U		0.18U	0.36	0.18	0.064	U	
4-Chloroaniline	106-47-8	27	RSL	c	0.19U	0.37	0.19	0.018	U		0.18U	0.36	0.18	0.018	U	
4-Chlorophenyl-phenylether	7005-72-3	NS	NS	NA	0.19U	0.37	0.19	0.067	U		0.18U	0.36	0.18	0.066	U	
4-Nitroaniline	100-01-6	270	RSL	c	0.19U	0.37	0.19	0.081	U		0.18U	0.36	0.18	0.079	U	
4-Nitrophenol	100-02-7	NS	NS	NA	0.19U	0.73	0.19	0.066	U		0.18U	0.72	0.18	0.065	U	
Acenaphthene	83-32-9	3480	NMED	n	0.19U	0.37	0.19	0.06	U		0.18U	0.36	0.18	0.059	U	
Acenaphthylene	208-96-8	1740	NMED[S]	n	0.19U	0.37	0.19	0.059	U		0.18U	0.36	0.18	0.058	U	
Anthracene	120-12-7	17400	NMED	n	0.19U	0.37	0.19	0.068	U		0.18U	0.36	0.18	0.067	U	
Benzo(a)anthracene	56-55-3	1.53	NMED	c	0.19U	0.37	0.19	0.064	U		0.18U	0.36	0.18	0.063	U	
Benzo(a)pyrene	50-32-8	0.153	NMED	c	0.14U	0.37	0.14	0.056	U		0.14U	0.36	0.14	0.055	U	

TABLE 1 SUMMARY OF ANALYTICAL DATA

FIELD ID / DATE COLLECTED	CAS Number	Residential Value	Source	Endpoint	P3HWMU-AOC-GRID-07 July 23, 2015						P3HWMU-AOC-GRID-08 July 23, 2015					
					Result	LOQ	LOD	DL	Lab Qualifier	Validation Qualifier	Result	LOQ	LOD	DL	Lab Qualifier	Validation Qualifier
Benzo(b)fluoranthene	205-99-2	1.53	NMED	c	0.19U	0.37	0.19	0.067	U		0.18U	0.36	0.18	0.066	U	
Benzo(g,h,i)perylene	191-24-2	1740	NMED[S]	n	0.19U	0.37	0.19	0.061	U		0.18U	0.36	0.18	0.06	U	
Benzo(k)fluoranthene	207-08-9	15.3	NMED	c	0.19U	0.37	0.19	0.068	U		0.18U	0.36	0.18	0.067	U	
Benzoic Acid	65-85-0	250000	RSL	n	0.19U	0.37	0.19	0.033	U		0.18U	0.36	0.18	0.032	U	
Benzyl Alcohol	100-51-6	6200	RSL	n	0.19U	0.37	0.19	0.062	U		0.18U	0.36	0.18	0.061	U	
bis (2-Chloroethoxy)methane	111-91-1	180	RSL	n	0.19U	0.37	0.19	0.055	U		0.18U	0.36	0.18	0.054	U	
bis (2-Chloroethyl)ether	111-44-4	3.11	NMED	c	0.19U	0.37	0.19	0.055	U		0.18U	0.36	0.18	0.055	U	
bis (2-Chloroisopropyl)ether	108-60-1	99.3	NMED	c	0.19U	0.37	0.19	0.052	U		0.18U	0.36	0.18	0.052	U	
bis (2-Ethylhexyl)phthalate	117-81-7	380	NMED	c	0.73U	0.73	0.19	0.068	J	U	0.18U	0.72	0.18	0.067	U	
Butylbenzylphthalate	85-68-7	280	RSL	c	0.19U	0.37	0.19	0.062	U		0.18U	0.36	0.18	0.061	U	
Carbazole	86-74-8	NS	NS	NA	0.19U	0.37	0.19	0.091	U		0.18U	0.36	0.18	0.089	U	
Chrysene	218-01-9	153	NMED	c	0.19U	0.37	0.19	0.067	U		0.18U	0.36	0.18	0.066	U	
Di-n-butylphthalate	84-74-2	6160	NMED	n	0.19U	0.37	0.19	0.073	U		0.18U	0.36	0.18	0.072	U	
Di-n-octylphthalate	117-84-0	620	RSL	n	0.19U	0.37	0.19	0.065	U		0.18U	0.36	0.18	0.064	U	
Dibenz(a,h)anthracene	53-70-3	0.153	NMED	c	0.14U	0.37	0.14	0.066	U		0.14U	0.36	0.14	0.065	U	
Dibenzofuran	132-64-9	72	RSL	n	0.19U	0.73	0.19	0.064	U		0.18U	0.72	0.18	0.063	U	
Diethylphthalate	84-66-2	49300	NMED	n	0.19U	0.37	0.19	0.069	U		0.18U	0.36	0.18	0.068	U	
Dimethylphthalate	131-11-3	NS	NS	n	0.19U	0.37	0.19	0.07	U		0.18U	0.36	0.18	0.069	U	
Fluoranthene	206-44-0	2320	NMED	n	0.19U	0.37	0.19	0.073	U		0.18U	0.36	0.18	0.071	U	
Fluorene	86-73-7	2320	NMED	n	0.19U	0.37	0.19	0.068	U		0.18U	0.36	0.18	0.067	U	
Hexachlorobenzene	118-74-1	3.33	NMED	c	0.19U	0.73	0.19	0.067	U		0.18U	0.72	0.18	0.066	U	
Hexachlorobutadiene	87-68-3	61.6	NMED	n	0.19U	0.37	0.19	0.057	U		0.18U	0.36	0.18	0.056	U	
Hexachloroethane	67-72-1	43.1	NMED	n	0.19U	0.37	0.19	0.055	U		0.18U	0.36	0.18	0.054	U	
Indeno(1,2,3-cd)pyrene	193-39-5	1.53	NMED	c	0.19U	0.37	0.19	0.067	U		0.18U	0.36	0.18	0.066	U	
Isophorone	78-59-1	5610	NMED	c	0.19U	0.37	0.19	0.063	U		0.18U	0.36	0.18	0.062	U	
N-Nitroso-di-n-propylamine	621-64-7	0.076	RSL	c	0.19U	0.37	0.19	0.061	U		0.18U	0.36	0.18	0.06	U	
N-Nitrosodimethylamine	62-75-9	0.0234	NMED	c	0.037U	0.37	0.037	0.025	U		0.036U	0.36	0.036	0.025	U	
N-Nitrosodiphenylamine	86-30-6	1090	NMED	c	0.19U	0.37	0.19	0.056	U		0.18U	0.36	0.18	0.055	U	
Naphthalene	91-20-3	49.7	NMED	c	0.19U	0.37	0.19	0.056	U		0.18U	0.36	0.18	0.055	U	
Nitrobenzene	98-95-3	60.4	NMED	c	0.19U	0.37	0.19	0.055	U		0.18U	0.36	0.18	0.054	U	
Pentachlorophenol	87-86-5	9.85	NMED	c	0.19U	0.73	0.19	0.065	U		0.18U	0.72	0.18	0.064	U	
Phenanthrene	85-01-8	1740	NMED	n	0.19U	0.73	0.19	0.065	U		0.18U	0.72	0.18	0.064	U	
Phenol	108-95-2	18500	NMED	n	0.19U	0.37	0.19	0.048	U		0.18U	0.36	0.18	0.047	U	
Pyrene	129-00-0	1740	NMED	n	0.19U	0.37	0.19	0.06	U		0.18U	0.36	0.18	0.059	U	
EXPLOSIVES (mg/kg)																
1,3,5-Trinitrobenzene	99-35-4	2200	RSL	n	0.2U	0.5	0.2	0.08	U		0.2U	0.5	0.2	0.08	U	
1,3-Dinitrobenzene	99-65-0	6.2	RSL	n	0.2U	0.5	0.2	0.06	U		0.2U	0.5	0.2	0.06	U	
2,4,6-Trinitrotoluene	118-96-7	36	NMED	n	0.089J	0.5	0.2	0.08	J		0.66	0.5	0.2	0.08		
2,4-Dinitrotoluene	121-14-2	17.1	NMED	c	0.2U	0.5	0.2	0.08	U		0.2U	0.5	0.2	0.08	U	
2,6-Dinitrotoluene	606-20-2	3.56	NMED	c	0.2U	0.5	0.2	0.08	U		0.2U	0.5	0.2	0.08	U	
2-Amino-4,6-dinitrotoluene	35572-78-2	150	RSL	n	0.10J	0.5	0.2	0.07	J		0.14J	0.5	0.2	0.07	J	
2-Nitrotoluene	88-72-2	31.6	NMED	c	0.2U	0.5	0.2	0.07	U		0.2U	0.5	0.2	0.07	U	
3-Nitrotoluene	99-08-1	6.16	NMED	n	0.2U	0.5	0.2	0.07	U		0.2U	0.5	0.2	0.07	U	
4-Amino-2,6-dinitrotoluene	19406-51-0	150	RSL	n	0.10J	0.5	0.2	0.07	J		0.13J	0.5	0.2	0.07	J	
4-Nitrotoluene	99-99-0	247	NMED	n	0.2U	0.5	0.2	0.08	U		0.2U	0.5	0.2	0.08	U	
Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	121-82-4	60.4	NMED	c	1	0.5	0.2	0.08			0.20J	0.5	0.2	0.08	J	
Methyl-2,4,6-Trinitrophenylnitramine (Tetryl)	479-45-8	156	NMED	n	0.2U	0.5	0.2	0.09	U		0.2U	0.5	0.2	0.09	U	
Nitrobenzene	98-95-3	60.4	NMED	c	0.2U	0.5	0.2	0.07	U		0.2U	0.5	0.2	0.07	U	
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0	3850	NMED	n	0.25J	0.5	0.2	0.08	J		0.2U	0.5	0.2	0.08	U	
POLYCHLORINATED BIPHENYLS (mg/kg)																
Aroclor 1016	12674-11-2	3.98	NMED	n	0.022U	0.055	0.022	0.011	U		0.022U	0.055	0.022	0.011	U	
Aroclor 1221	11104-28-2	1.81	NMED	c	0.022U	0.055	0.022	0.0067	U		0.022U	0.055	0.022	0.0066	U	
Aroclor 1232	11141-16-5	1.86	NMED	c	0.011U	0.055	0.011	0.004	U		0.011U	0.055	0.011	0.0039	U	
Aroclor 1242	53469-21-9	2.43	NMED	c	0.011U	0.055	0.011	0.004	U		0.011U	0.055	0.011	0.0039	U	
Aroclor 1248	12672-29-6	2.43	NMED	c	0.011U	0.055	0.011	0.004	U		0.011U	0.055	0.011	0.0039	U	
Aroclor 1254	11097-69-1	1.14	NMED	n	0.011U	0.055	0.011	0.004	U		0.011U	0.055	0.011	0.0039	U	
Aroclor 1260	11096-82-5	2.43	NMED	c	0.011U	0.055	0.011	0.004	U		0.011U	0.055	0.011	0.0039	U	
DIOXINS/FURANS (ηg/kg)																
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	*	NMED	NA	4.8J	25	4.8		J		5.1J	25	5.1		J	
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	*	NMED	NA	80	25	13				82	25	13			
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	*	NMED	NA	2.7U	12.5	2.7		U		2.2J	12.5	2.2		J	
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	*	NMED	NA	12J	12.5	12		J		10J	12.5	10		J	
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	*	NMED	NA	0.28U	12.5	0.28		U		0.29U	12.5	0.29		U	
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	*	NMED	NA	0.15U	12.5	0.15		U		0.2U	12.5	0.2		U	
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6	*	NMED	NA	0.26U	12.5	0.26		U		0.46U	12.5	0.46		U	
1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	*	NMED	NA	0.14U	12.5	0.14		U		0.2U	12.5	0.2		U	
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	*	NMED	NA	0.7U	12.5	0.7		U		0.84J	12.5	0.84		J	
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	*	NMED	NA	0.2U	12.5	0.2		U		0.34J	12.5	0.34		J	
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3	*	NMED	NA	0.25U	12.5	0.25		U		0.58U	12.5	0.58		U	
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	*	NMED	NA	0.096U	12.5	0.096		U		0.32J	12.5	0.32		J	
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4	*	NMED	NA	0.17U	12.5	0.17		U		0.18U	12.5	0.18		U	
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	*	NMED	NA	0.16U	12.5	0.16		U		2.5U	12.5	2.5		U	
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	*	NMED	NA	0.1U	12.5	0.1		U		0.17U	12.5	0.17		U	
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	490	NMED	c	0.19U	5	0.19		U		0.24U	5	0.24		U	
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	49	NMED	c	0.15U	5	0.15		U		0.14U	5	0.14		U	
TEQ		49	NMED	c	0.15						0.28					
METALS (mg/kg)																
Aluminum	7429-90-5	78000	NMED	n	8410	111	44	22			7830	109	44	22		
Antimony	7440-36-0	31.3	NMED	n	3.8J	5.5	4.4	2	J	J	4.4U	5.5	4.4	2	U	
Arsenic	7440-38-2	5.6**	BKG	NA	3.9J	5.5	4.4	2.8	J		3.3J	5.5	4.4	2.7	J	
Barium	7440-39-3	15600	NMED	n	228	5.5	4.4	0.83			231	5.5	4.4	0.82		
Beryllium	7440-41-7	156	NMED	n	2.2UJ	2.2	2.2	0.49	U	UJ	2.2U	2.2	2.2	0.48	U	
Cadmium	7440-43-9	70.5	NMED	n	2.2U	5.5	2.2	0.57	U		2.2U	5.5	2.2	0.56	U	
Calcium	7440-70-2	NS	NS	NA	22000	111	89	55			28300	109	87	55		
Chromium	7440-47-3	117000	NMED[S]	n	12.3	5.5	4.4	1.6			7.3	5.5	4.4	1.5		
Cobalt	7440-48-4	23	RSL	n	3.2J	5.5	3.3	0.7	J		3.1J	5.5	3.3	0.69	J	
Copper	7440-50-8	3130	NMED	n	91.5J	5.5	4.4	1		J	47.2	5.5	4.4	1		
Iron	7439-89-6	54800	NMED	n	11100	55	44	9.4			9080	55	44	9.3		
Lead	7439-92-1	400	NMED	IEUBK	21.0J	5.5	4.4	1.8		J	9.7	5.5	4.4	1.7		
Magnesium	7439-95-4	NS	NS	NA	3320	55	44	14			2790	55	44	14		
Manganese	7439-96-5	10500	NMED	n	343	5.5	4.4	1.4			422	5.5	4.4	1.4		
Mercury	7439-97-6	23.5	NMED	n	0.12J	0.1	0.04	0.01		J	0.1	0.1	0.04	0.01		
Nickel	7440-02-0	1560	NMED	n	10.5	5.5	4.4	0.75			8	5.5	4.4	0.74		
Potassium	7440-09-7	NS	NS	NA	1070J	1110	555	154	J		953J	1090	546	152	J	
Selenium	7782-49-2	391	NMED	n	5.5U	5.5	5.5	4.1	U		5.5U	5.5	5.5	4	U	
Silver	7440-22-4	391	NMED	n	0.89U	1.1	0.89	0.4	U		0.87U	1.1	0.87	0.39	U	
Sodium	7440-23-5	NS	NS	NA	225J	1110	555	123	J	J	214J	1090	546	121	J	
Thallium	7440-28-0	0.782	NMED	n	0.44UJ	0.83	0.44	0.23	U	UJ	0.44UJ	0.82	0.44	0.22	U	UJ

TABLE 1 SUMMARY OF ANALYTICAL DATA

FIELD ID / DATE COLLECTED	CAS Number	Residential Value	Source	Endpoint	P3HWMU-AOC-GRID-07 July 23, 2015						P3HWMU-AOC-GRID-08 July 23, 2015					
					Result	LOQ	LOD	DL	Lab Qualifier	Validation Qualifier	Result	LOQ	LOD	DL	Lab Qualifier	Validation Qualifier
Vanadium	7440-62-2	394	NMED	n	16.6	5.5	4.4	1.1			16.2	5.5	4.4	1.1		
Zinc	7440-66-6	23500	NMED	n	62.2J	55	44	13		J	49.1J	55	44	13	J	
OTHER PARAMETERS (mg/kg)																
Cyanide	57-12-5	11.2	NMED	n	0.44U	0.55	0.44	0.31	U		0.44U	0.55	0.44	0.31	U	
Nitrate	14797-65-0	125000	NMED	n	23J	11	4.9	1.4		J	47	11	4.8	1.4		
Perchlorate	14797-73-0	54.8	NMED	n	0.0090J	0.006	0.004	0.002		J	0.0088	0.006	0.004	0.002		

Notes:
B = Detected in method blank
BKG = Background
c = cancer
DL =Detection limit
J = Estimated
LOD = Limit of Detection
LOQ = Limit of Quantitation
mg/kg = milligrams per kilogram
ηg/kg = nanograms per kilogram
n = noncancer
NA = not applicable
NMED = New Mexico Environment Department Screening Levels (NMED 2014, December update).
NS = No standard
Qual = Qualifier
RSL = Regional Screening Levels (USEPA 2015, June Update).
s = surrogate
TEQ = Toxicity Equivalence
U = Nondetect
UJ = Estimated Nondetect
*Dioxins/Furans assessed as 2,3,7,8-TCDD TEQ
**Arsenic sceeening value is the background value determined by December 18, 2013 NMED letter. The background value is used because it is higher than the NMED SSL. If the arsenic value of 5.6 is exceeded then consider the site range compared to 0.2-11.2mg/kg. If the result exceeds 5.6, then the NMED SSL of 4.25 will be used to estimate potential risk.

The following screening values are based on surrogate:
1-4-Dichlorobenzene was used as a surrogate for 1,3-dichlorobenzene.
2,4-Dichlorophenol was used as a surrogate for 2,6-dichlorophenol.
1,2-Dichloropropane was used as a surrogate for 2,2-dichloropropane.
1,3-Dichloropropene was used for 1,1-dichloropropene and *cis* - and *trans* - 1,3-dichloropropene.
Isopropyl benzene was used as a surrogate for p-isopropyl toluene.
4-Nitroaniline was used as surrogate for 3-nitroaniline.
Pyrene was used as a surrogate for noncarcinogenic PAHs without toxicity factors.
Chromium III was used as a surrogate for chromium
m-Xylene was used as a surrogate for m,p-Xylenes
TEQ calculation and the TEFs used are from the 2005 World Health Organization (WHO) dioxin toxicity equivalence factors (TEFs) to calculate dioxin toxicity equivalence (TEQ) at CERCLA and RCRA Sites.
(Van den Berg, M. 2005 WHO Reevaluation of Human and Mammalian TEFs Toxicological Sciences 93(2): 223-241, 2006)

Shaded results exceed Residential Value

TABLE 1 SUMMARY OF ANALYTICAL DATA

FIELD ID / DATE COLLECTED	CAS Number	Residential Value	Source	Endpoint	P3HWMU-AOC-GRID-09 July 23, 2015						P3HWMU-AOC-GRID-10 July 23, 2015					
					Result	LOQ	LOD	DL	Lab Qualifier	Validation Qualifier	Result	LOQ	LOD	DL	Lab Qualifier	Validation Qualifier
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
1,1,1,2-Tetrachloroethane	630-20-6	28.1	NMED	c	0.0022U	0.0054	0.0022	0.0011	U		0.0022U	0.0055	0.0022	0.0011	U	
1,1,1-Trichloroethane	71-55-6	14400	NMED	n	0.0022U	0.0054	0.0022	0.00088	U		0.0022U	0.0055	0.0022	0.00089	U	
1,1,2,2-Tetrachloroethane	79-34-5	7.98	NMED	c	0.0022U	0.0054	0.0022	0.0013	U		0.0022U	0.0055	0.0022	0.0014	U	
1,1,2-Trichloroethane	79-00-5	2.61	NMED	n	0.0022U	0.0054	0.0022	0.001	U		0.0022U	0.0055	0.0022	0.0011	U	
1,1-Dichloroethane	75-34-3	78.6	NMED	c	0.0022U	0.011	0.0022	0.0012	U		0.0022U	0.011	0.0022	0.0012	U	
1,1-Dichloroethene	75-35-4	440	NMED	n	0.0022U	0.0054	0.0022	0.00086	U		0.0022U	0.0055	0.0022	0.00087	U	
1,1-Dichloropropene	563-58-6	29.3	NMED[S]	c	0.0022U	0.0054	0.0022	0.00092	U		0.0022U	0.0055	0.0022	0.00093	U	
1,2,3-Trichlorobenzene	87-61-6	49	RSL	n	0.0022U	0.0054	0.0022	0.00054	U		0.0022U	0.0055	0.0022	0.00055	U	
1,2,3-Trichloropropane	96-18-4	0.051	NMED	c	0.0054U	0.022	0.0054	0.0013	U		0.0055U	0.022	0.0055	0.0014	U	
1,2,4-Trichlorobenzene	120-82-1	82.9	NMED	n	0.0022U	0.0054	0.0022	0.00057	U		0.0022U	0.0055	0.0022	0.00057	U	
1,2,4-Trimethylbenzene	95-63-6	58	RSL	n	0.0022U	0.0054	0.0022	0.0013	U		0.0022U	0.0055	0.0022	0.0013	U	
1,2-Dibromo-3-Chloropropane	96-12-8	0.0858	NMED	c	0.0054U	0.011	0.0054	0.0024	U		0.0055U	0.011	0.0055	0.0024	U	
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.672	NMED	c	0.0022U	0.0054	0.0022	0.00065	U		0.0022U	0.0055	0.0022	0.00066	U	
1,2-Dichlorobenzene	95-50-1	2150	NMED	n	0.0022U	0.0054	0.0022	0.001	U		0.0022U	0.0055	0.0022	0.001	U	
1,2-Dichloroethane	107-06-2	8.32	NMED	c	0.0022U	0.0054	0.0022	0.00084	U		0.0022U	0.0055	0.0022	0.00085	U	
1,2-Dichloropropane	78-87-5	17.8	NMED	c	0.0022U	0.0054	0.0022	0.00078	U		0.0022U	0.0055	0.0022	0.00079	U	
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	780	RSL	n	0.0022U	0.0054	0.0022	0.0011	U		0.0022U	0.0055	0.0022	0.0011	U	
1,3-Dichlorobenzene	541-73-1	32.8	NMED[S]	c	0.0022U	0.0054	0.0022	0.00065	U		0.0022U	0.0055	0.0022	0.00066	U	
1,3-Dichloropropane	142-28-9	1600	RSL	n	0.0022U	0.0054	0.0022	0.00071	U		0.0022U	0.0055	0.0022	0.00071	U	
1,4-Dichlorobenzene	106-46-7	32.8	NMED	c	0.0022U	0.0054	0.0022	0.00073	U		0.0022U	0.0055	0.0022	0.00074	U	
2,2-Dichloropropane	594-20-7	17.8	NMED[S]	c	0.0022U	0.0054	0.0022	0.0012	U		0.0022U	0.0055	0.0022	0.0012	U	
2-Butanone	78-93-3	37400	NMED	n	0.011U	0.011	0.0033	0.003	J	U	0.014U	0.011	0.0033	0.0031		U
2-Chlorotoluene	95-49-8	1560	NMED	n	0.0022U	0.0054	0.0022	0.0011	U		0.0022U	0.0055	0.0022	0.0011	U	
2-Hexanone	591-78-6	200	RSL	n	0.0022U	0.011	0.0022	0.00097	U		0.0022U	0.011	0.0022	0.00098	U	
4-Chlorotoluene	106-43-4	1600	RSL	n	0.0022U	0.0054	0.0022	0.0011	U		0.0022U	0.0055	0.0022	0.0012	U	
4-Methyl-2-Pentanone	108-10-1	5300	RSL	n	0.0022U	0.011	0.0022	0.001	U		0.0022U	0.011	0.0022	0.001	U	
Acetone	67-64-1	66300	NMED	n	0.073U	0.011	0.0054	0.003		U	0.14U	0.011	0.0055	0.0031		U
Benzene	71-43-2	17.8	NMED	c	0.0062	0.0054	0.0022	0.00068			0.0047J	0.0055	0.0022	0.00069	J	
Bromobenzene	108-86-1	290	RSL	n	0.0022U	0.0054	0.0022	0.00083	U		0.0022U	0.0055	0.0022	0.00083	U	
Bromochloromethane	74-97-5	150	RSL	n	0.0022U	0.011	0.0022	0.00088	U		0.0022U	0.011	0.0022	0.00089	U	
Bromodichloromethane	75-27-4	6.19	NMED	c	0.0022U	0.0054	0.0022	0.00075	U		0.0022U	0.0055	0.0022	0.00076	U	
Bromoform	75-25-2	674	NMED	c	0.0022U	0.0054	0.0022	0.00087	U		0.0022U	0.0055	0.0022	0.00088	U	
Bromomethane	74-83-9	17.7	NMED	n	0.052	0.0054	0.0022	0.0017			0.022	0.0055	0.0022	0.0018		
Carbon Disulfide	75-15-0	1550	NMED	n	0.0022U	0.0054	0.0022	0.0012	U		0.0024J	0.0055	0.0022	0.0012	J	
Carbon Tetrachloride	56-23-5	10.7	NMED	c	0.0022U	0.0054	0.0022	0.00087	U		0.0022U	0.0055	0.0022	0.00088	U	
Chlorobenzene	108-90-7	378	NMED	n	0.0022U	0.0054	0.0022	0.00053	U		0.0022U	0.0055	0.0022	0.00054	U	
Chloroethane	75-00-3	19000	NMED	n	0.0022U	0.0054	0.0022	0.0017	U		0.0022U	0.0055	0.0022	0.0017	U	
Chloroform	67-66-3	5.9	NMED	c	0.0022U	0.0054	0.0022	0.0016	U		0.0022U	0.0055	0.0022	0.0016	U	
Chloromethane	74-87-3	41.1	NMED	c	0.015	0.0054	0.0054	0.002			0.016	0.0055	0.0055	0.002		
cis -1,2-Dichloroethene	156-59-2	156	NMED	n	0.0022U	0.011	0.0022	0.0012	U		0.0022U	0.011	0.0022	0.0012	U	
cis -1,3-Dichloropropene	10061-01-5	29.3	NMED[S]	c	0.0022U	0.0054	0.0022	0.001	U		0.0022U	0.0055	0.0022	0.001	U	
Dibromochloromethane	74-95-3	13.9	NMED	c	0.0022U	0.0054	0.0022	0.00092	U		0.0022U	0.0055	0.0022	0.00093	U	
Dibromomethane	124-48-1	57.9	NMED	n	0.0022U	0.0054	0.0022	0.00095	U		0.0022U	0.0055	0.0022	0.00095	U	
Dichlorodifluoromethane	75-71-8	182	NMED	n	0.0022U	0.011	0.0022	0.0014	U		0.0022U	0.011	0.0022	0.0014	U	
Ethylbenzene	100-41-4	75.1	NMED	c	0.0022U	0.0054	0.0022	0.0011	U		0.0022U	0.0055	0.0022	0.0011	U	
Hexachlorobutadiene	87-68-3	61.1	NMED	n	0.0022U	0.011	0.0022	0.0012	U		0.0022U	0.011	0.0022	0.0012	U	
Isopropylbenzene (Cumene)	98-82-8	2360	NMED	n	0.0022U	0.0054	0.0022	0.0012	U		0.0022U	0.0055	0.0022	0.0012	U	
m,p-Xylene (sum of isomers)	136777-61-2	764	NMED[S]	n	0.0054U	0.011	0.0054	0.0026	U		0.0055U	0.011	0.0055	0.0026	U	
Methyl t-Butyl Ether	1634-04-4	975	NMED	c	0.0022U	0.0054	0.0022	0.00097	U		0.0022U	0.0055	0.0022	0.00098	U	
Methylene Chloride	75-09-2	409	NMED	n	0.011U	0.054	0.011	0.005	U		0.011U	0.055	0.011	0.005	U	
n-Butylbenzene	104-51-8	3900	RSL	n	0.0022U	0.0054	0.0022	0.0014	U		0.0022U	0.0055	0.0022	0.0014	U	
n-Propylbenzene	103-65-1	3300	RSL	n	0.0022U	0.0054	0.0022	0.0013	U		0.0022U	0.0055	0.0022	0.0013	U	
Naphthalene	91-20-3	49.7	NMED	c	0.0022U	0.0054	0.0022	0.0012	U		0.0022U	0.0055	0.0022	0.0012	U	
o-Xylene	95-47-6	805	NMED	n	0.0022U	0.0054	0.0022	0.0011	U		0.0022U	0.0055	0.0022	0.0011	U	
p-Isopropyltoluene	99-87-6	2360	NMED[S]	n	0.0022J	0.0054	0.0022	0.0014	J		0.0022J	0.0055	0.0022	0.0014	J	
sec-Butylbenzene	135-98-8	7800	RSL	n	0.0022U	0.0054	0.0022	0.0012	U		0.0022U	0.0055	0.0022	0.0012	U	
Styrene	100-42-5	7260	NMED	n	0.0022U	0.0054	0.0022	0.0013	U		0.0022U	0.0055	0.0022	0.0013	U	
tert-Butylbenzene	98-06-6	7800	RSL	n	0.0022U	0.0054	0.0022	0.00083	U		0.0022U	0.0055	0.0022	0.00083	U	
Tetrachloroethene	127-18-4	111	NMED	n	0.0022U	0.0054	0.0022	0.00059	U		0.00069J	0.0055	0.0022	0.00059	J	
Toluene	108-88-3	5230	NMED	n	0.0045J	0.0054	0.0022	0.0014	J		0.0035J	0.0055	0.0022	0.0014	J	
trans -1,2-Dichloroethene	156-60-5	295	NMED	n	0.0022U	0.0054	0.0022	0.0015	U		0.0022U	0.0055	0.0022	0.0015	U	
trans -1,3-Dichloropropene	10061-02-6	29.3	NMED[S]	c	0.0022U	0.0054	0.0022	0.00085	U		0.0022U	0.0055	0.0022	0.00086	U	
Trichloroethene	79-01-6	6.77	NMED	n	0.0022U	0.0054	0.0022	0.0011	U		0.0022U	0.0055	0.0022	0.0011	U	
Trichlorofluoromethane	75-69-4	1230	NMED	n	0.0022U	0.0054	0.0022	0.0017	U		0.0022U	0.0055	0.0022	0.0017	U	
Vinyl Chloride	75-01-4	0.742	NMED	c	0.0022U	0.0054	0.0022	0.0018	U		0.0022U	0.0055	0.0022	0.0018	U	
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
1,2,4-Trichlorobenzene	120-82-1	82.9	NMED	n	0.18U	0.36	0.18	0.054	U		0.18U	0.36	0.18	0.054	U	
1,2-Dichlorobenzene	95-50-1	2150	NMED	n	0.18U	0.36	0.18	0.056	U		0.18U	0.36	0.18	0.056	U	
1,3-Dichlorobenzene	541-73-1	32.8	NMED[S]	c	0.18U	0.36	0.18	0.055	U		0.18U	0.36	0.18	0.056	U	
1,4-Dichlorobenzene	106-46-7	32.8	NMED	c	0.18U	0.36	0.18	0.053	U		0.18U	0.36	0.18	0.054	U	
2,4,5-Trichlorophenol	95-95-4	6160	NMED	n	0.18U	0.36	0.18	0.065	U		0.18U	0.36	0.18	0.066	U	
2,4,6-Trichlorophenol	88-06-2	61.6	NMED	n	0.18U	0.36	0.18	0.052	U		0.18U	0.36	0.18	0.053	U	
2,4-Dichlorophenol	120-83-2	185	NMED	n	0.18U	0.36	0.18	0.055	U		0.18U	0.36	0.18	0.055	U	
2,4-Dimethylphenol	105-67-9	1230	NMED	n	0.18U	0.36	0.18	0.048	U		0.18U	0.36	0.18	0.048	U	
2,4-Dinitrophenol	51-28-5	123	NMED	n	0.18U	0.72	0.18	0.058	U		0.18U	0.72	0.18	0.059	U	
2,4-Dinitrotoluene	121-14-2	17.1	NMED	c	0.18U	0.72	0.18	0.069	U		0.18U	0.72	0.18	0.07	U	
2,6-Dinitrotoluene	606-20-2	3.56	NMED	c	0.18U	0.72	0.18	0.066	U		0.18U	0.72	0.18	0.067	U	
2-Chloronaphthalene	91-58-7	6260	NMED	n	0.18U	0.36	0.18	0.057	U		0.18U	0.36	0.18	0.058	U	
2-Chlorophenol	95-57-8	391	NMED	n	0.18U	0.36	0.18	0.048	U		0.18U	0.36	0.18	0.049	U	
2-Methylnaphthalene	91-57-6	230	RSL	n	0.18U	0.36	0.18	0.055	U		0.18U	0.36	0.18	0.055	U	
2-Methylphenol (o-cresol)	95-48-7	3100	RSL	n	0.18U	0.36	0.18	0.049	U		0.18U	0.36	0.18	0.05	U	
2-Nitroaniline	88-74-4	610	RSL	n	0.18U	0.72	0.18	0.068	U		0.18U	0.72	0.18	0.068	U	
2-Nitrophenol	88-75-5	NS	NS	NA	0.18U	0.36	0.18	0.052	U		0.18U	0.36	0.18	0.052	U	
3,3-Dichlorobenzidine	91-94-1	11.8	NMED	c	0.18U	0.72	0.18	0.061	U		0.18U	0.72	0.18	0.062	U	
3-Nitroaniline	99-09-2	270	RSL[S]	c	0.18U	0.72	0.18	0.066	U		0.18U	0.72	0.18	0.067	U	
4,6-Dinitro-2-methylphenol	534-52-1	4.93	NMED	n	0.18U	0.72	0.18	0.061	U		0.18U	0.72	0.18	0.062	U	
4-Bromophenyl-phenylether	101-55-3	NS	NS	NA	0.18U	0.36	0.18	0.062	U		0.18U	0.36	0.18	0.062	U	
4-Chloro-3-methylphenol	59-50-7	6200	RSL	n	0.18U	0.36	0.18	0.064	U		0.18U	0.36	0.18	0.065	U	
4-Chloroaniline	106-47-8	27	RSL	c	0.18U	0.36	0.18	0.018	U		0.18U	0.36	0.18	0.018	U	
4-Chlorophenyl-phenylether	7005-72-3	NS	NS	NA	0.18U	0.36	0.18	0.066	U		0.18U	0.36	0.18	0.067	U	
4-Nitroaniline	100-01-6	270	RSL	c	0.18U	0.36	0.18	0.079	U		0.18U	0.36	0.18	0.08	U	
4-Nitrophenol	100-02-7	NS	NS	NA	0.18U	0.72	0.18	0.065	U		0.18U	0.72	0.18	0.066	U	
Acenaphthene	83-32-9	3480	NMED	n	0.18U	0.36	0.18	0.058	U		0.18U	0.36	0.18	0.059	U	
Acenaphthylene	208-96-8	1740	NMED[S]	n	0.18U	0.36	0.18	0.058	U		0.18U	0.36	0.18	0.058	U	
Anthracene	120-12-7	17400	NMED	n	0.18U	0.36	0.18	0.067	U		0.18U	0.36	0.18	0.067	U	
Benzo(a)anthracene	56-55-3	1.53	NMED	c	0.18U	0.36	0.18	0.063	U		0.18U	0.36	0.18	0.064	U	
Benzo(a)pyrene	50-32-8	0.153	NMED	c	0.14U	0.36	0.14	0.055	U		0.14U	0.36	0.14	0.056	U	

TABLE 1 SUMMARY OF ANALYTICAL DATA

FIELD ID / DATE COLLECTED	CAS Number	Residential Value	Source	Endpoint	P3HWMU-AOC-GRID-09 July 23, 2015						P3HWMU-AOC-GRID-10 July 23, 2015					
					Result	LOQ	LOD	DL	Lab Qualifier	Validation Qualifier	Result	LOQ	LOD	DL	Lab Qualifier	Validation Qualifier
Benzo(b)fluoranthene	205-99-2	1.53	NMED	c	0.18U	0.36	0.18	0.065	U		0.18U	0.36	0.18	0.066	U	
Benzo(g,h,i)perylene	191-24-2	1740	NMED[S]	n	0.18U	0.36	0.18	0.06	U		0.18U	0.36	0.18	0.061	U	
Benzo(k)fluoranthene	207-08-9	15.3	NMED	c	0.18U	0.36	0.18	0.066	U		0.18U	0.36	0.18	0.067	U	
Benzoic Acid	65-85-0	250000	RSL	n	0.18U	0.36	0.18	0.032	U		0.18U	0.36	0.18	0.032	U	
Benzyl Alcohol	100-51-6	6200	RSL	n	0.18U	0.36	0.18	0.061	U		0.18U	0.36	0.18	0.061	U	
bis (2-Chloroethoxy)methane	111-91-1	180	RSL	n	0.18U	0.36	0.18	0.054	U		0.18U	0.36	0.18	0.055	U	
bis (2-Chloroethyl)ether	111-44-4	3.11	NMED	c	0.18U	0.36	0.18	0.054	U		0.18U	0.36	0.18	0.055	U	
bis (2-Chloroisopropyl)ether	108-60-1	99.3	NMED	c	0.18U	0.36	0.18	0.051	U		0.18U	0.36	0.18	0.052	U	
bis (2-Ethylhexyl)phthalate	117-81-7	380	NMED	c	0.18U	0.72	0.18	0.067	U		0.18U	0.72	0.18	0.068	U	
Butylbenzylphthalate	85-68-7	280	RSL	c	0.18U	0.36	0.18	0.06	U		0.18U	0.36	0.18	0.061	U	
Carbazole	86-74-8	NS	NS	NA	0.18U	0.36	0.18	0.089	U		0.18U	0.36	0.18	0.09	U	
Chrysene	218-01-9	153	NMED	c	0.18U	0.36	0.18	0.066	U		0.18U	0.36	0.18	0.067	U	
Di-n-butylphthalate	84-74-2	6160	NMED	n	0.18U	0.36	0.18	0.072	U		0.18U	0.36	0.18	0.072	U	
Di-n-octylphthalate	117-84-0	620	RSL	n	0.18U	0.36	0.18	0.063	U		0.18U	0.36	0.18	0.064	U	
Dibenz(a,h)anthracene	53-70-3	0.153	NMED	c	0.14U	0.36	0.14	0.065	U		0.14U	0.36	0.14	0.065	U	
Dibenzofuran	132-64-9	72	RSL	n	0.18U	0.72	0.18	0.062	U		0.18U	0.72	0.18	0.063	U	
Diethylphthalate	84-66-2	49300	NMED	n	0.18U	0.36	0.18	0.068	U		0.18U	0.36	0.18	0.068	U	
Dimethylphthalate	131-11-3	NS	NS	n	0.18U	0.36	0.18	0.069	U		0.18U	0.36	0.18	0.069	U	
Fluoranthene	206-44-0	2320	NMED	n	0.18U	0.36	0.18	0.071	U		0.18U	0.36	0.18	0.072	U	
Fluorene	86-73-7	2320	NMED	n	0.18U	0.36	0.18	0.067	U		0.18U	0.36	0.18	0.067	U	
Hexachlorobenzene	118-74-1	3.33	NMED	c	0.18U	0.72	0.18	0.066	U		0.18U	0.72	0.18	0.066	U	
Hexachlorobutadiene	87-68-3	61.6	NMED	n	0.18U	0.36	0.18	0.056	U		0.18U	0.36	0.18	0.057	U	
Hexachloroethane	67-72-1	43.1	NMED	n	0.18U	0.36	0.18	0.054	U		0.18U	0.36	0.18	0.055	U	
Indeno(1,2,3-cd)pyrene	193-39-5	1.53	NMED	c	0.18U	0.36	0.18	0.066	U		0.18U	0.36	0.18	0.066	U	
Isophorone	78-59-1	5610	NMED	c	0.18U	0.36	0.18	0.062	U		0.18U	0.36	0.18	0.063	U	
N-Nitroso-di-n-propylamine	621-64-7	0.076	RSL	c	0.18U	0.36	0.18	0.06	U		0.18U	0.36	0.18	0.06	U	
N-Nitrosodimethylamine	62-75-9	0.0234	NMED	c	0.036U	0.36	0.036	0.025	U		0.037U	0.36	0.037	0.025	U	
N-Nitrosodiphenylamine	86-30-6	1090	NMED	c	0.18U	0.36	0.18	0.055	U		0.18U	0.36	0.18	0.056	U	
Naphthalene	91-20-3	49.7	NMED	c	0.18U	0.36	0.18	0.055	U		0.18U	0.36	0.18	0.055	U	
Nitrobenzene	98-95-3	60.4	NMED	c	0.18U	0.36	0.18	0.054	U		0.18U	0.36	0.18	0.055	U	
Pentachlorophenol	87-86-5	9.85	NMED	c	0.18U	0.72	0.18	0.064	U		0.18U	0.72	0.18	0.064	U	
Phenanthrene	85-01-8	1740	NMED	n	0.18U	0.72	0.18	0.063	U		0.18U	0.72	0.18	0.064	U	
Phenol	108-95-2	18500	NMED	n	0.18U	0.36	0.18	0.047	U		0.18U	0.36	0.18	0.047	U	
Pyrene	129-00-0	1740	NMED	n	0.18U	0.36	0.18	0.059	U		0.18U	0.36	0.18	0.059	U	
EXPLOSIVES (mg/kg)																
1,3,5-Trinitrobenzene	99-35-4	2200	RSL	n	0.2U	0.5	0.2	0.08	U		0.2U	0.5	0.2	0.08	U	
1,3-Dinitrobenzene	99-65-0	6.2	RSL	n	0.2U	0.5	0.2	0.06	U		0.2U	0.5	0.2	0.06	U	
2,4,6-Trinitrotoluene	118-96-7	36	NMED	n	17	2.5	1	0.4			2.4	0.5	0.2	0.08		
2,4-Dinitrotoluene	121-14-2	17.1	NMED	c	0.2U	0.5	0.2	0.08	U		0.2U	0.5	0.2	0.08	U	
2,6-Dinitrotoluene	606-20-2	3.56	NMED	c	0.2U	0.5	0.2	0.08	U		0.2U	0.5	0.2	0.08	U	
2-Amino-4,6-dinitrotoluene	35572-78-2	150	RSL	n	0.2U	0.5	0.2	0.07	U		0.11J	0.5	0.2	0.07	J	
2-Nitrotoluene	88-72-2	31.6	NMED	c	0.2U	0.5	0.2	0.07	U		0.2U	0.5	0.2	0.07	U	
3-Nitrotoluene	99-08-1	6.16	NMED	n	0.2U	0.5	0.2	0.07	U		0.2U	0.5	0.2	0.07	U	
4-Amino-2,6-dinitrotoluene	19406-51-0	150	RSL	n	0.14J	0.5	0.2	0.07	J		0.090J	0.5	0.2	0.07	J	
4-Nitrotoluene	99-99-0	247	NMED	n	0.2U	0.5	0.2	0.08	U		0.2U	0.5	0.2	0.08	U	
Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	121-82-4	60.4	NMED	c	1.1	0.5	0.2	0.08			4.8	0.5	0.2	0.08		
Methyl-2,4,6-Trinitrophenylnitramine (Tetryl)	479-45-8	156	NMED	n	0.2U	0.5	0.2	0.09	U		0.2U	0.5	0.2	0.09	U	
Nitrobenzene	98-95-3	60.4	NMED	c	0.2U	0.5	0.2	0.07	U		0.2U	0.5	0.2	0.07	U	
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0	3850	NMED	n	0.30J	0.5	0.2	0.08	J		1.3	0.5	0.2	0.08		
POLYCHLORINATED BIPHENYLS (mg/kg)																
Aroclor 1016	12674-11-2	3.98	NMED	n	0.022U	0.054	0.022	0.011	U		0.022U	0.055	0.022	0.011	U	
Aroclor 1221	11104-28-2	1.81	NMED	c	0.022U	0.054	0.022	0.0065	U		0.022U	0.055	0.022	0.0066	U	
Aroclor 1232	11141-16-5	1.86	NMED	c	0.011U	0.054	0.011	0.0039	U		0.011U	0.055	0.011	0.004	U	
Aroclor 1242	53469-21-9	2.43	NMED	c	0.011U	0.054	0.011	0.0039	U		0.011U	0.055	0.011	0.004	U	
Aroclor 1248	12672-29-6	2.43	NMED	c	0.011U	0.054	0.011	0.0039	U		0.011U	0.055	0.011	0.004	U	
Aroclor 1254	11097-69-1	1.14	NMED	n	0.011U	0.054	0.011	0.0039	U		0.011U	0.055	0.011	0.004	U	
Aroclor 1260	11096-82-5	2.43	NMED	c	0.011U	0.054	0.011	0.0039	U		0.011U	0.055	0.011	0.004	U	
DIOXINS/FURANS (ηg/kg)																
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	*	NMED	NA	3.8J	25	3.8		J		4J	25	4		J	
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	*	NMED	NA	89	25	13				54	25	13			
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	*	NMED	NA	2.6J	12.5	2.6		J		1.5U	12.5	1.5		U	
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	*	NMED	NA	14	12.5	6.3				7.3J	12.5	7.3		J	
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	*	NMED	NA	0.43U	12.5	0.43		U		0.1U	12.5	0.1		U	
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	*	NMED	NA	0.41J	12.5	0.41		J		0.13U	12.5	0.13		U	
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6	*	NMED	NA	0.38U	12.5	0.38		U		0.27U	12.5	0.27		U	
1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	*	NMED	NA	0.38J	12.5	0.38		J		0.19U	12.5	0.19		U	
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	*	NMED	NA	0.84J	12.5	0.84		J		0.49J	12.5	0.49		J	
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	*	NMED	NA	0.14U	12.5	0.14		U		0.15U	12.5	0.15		U	
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3	*	NMED	NA	0.77J	12.5	0.77		J		0.25U	12.5	0.25		U	
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	*	NMED	NA	0.22U	12.5	0.22		U		0.15U	12.5	0.15		U	
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4	*	NMED	NA	0.2U	12.5	0.2		U		0.14U	12.5	0.14		U	
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	*	NMED	NA	0.23U	12.5	0.23		U		0.2U	12.5	0.2		U	
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	*	NMED	NA	0.23U	12.5	0.23		U		0.16U	12.5	0.16		U	
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	490	NMED	c	0.15U	5	0.15		U		0.16U	5	0.16		U	
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	49	NMED	c	0.18U	5	0.18		U		0.12U	5	0.12		U	
TEQ		49	NMED	c	0.43						0.14					
METALS (mg/kg)																
Aluminum	7429-90-5	78000	NMED	n	7350	109	43	22			10400	110	44	22		
Antimony	7440-36-0	31.3	NMED	n	8	5.4	4.3	2			4.4U	5.5	4.4	2	U	
Arsenic	7440-38-2	5.6**	BKG	NA	3.2J	5.4	4.3	2.7	J		3.7J	5.5	4.4	2.7	J	
Barium	7440-39-3	15600	NMED	n	239	5.4	4.3	0.82			238	5.5	4.4	0.82		
Beryllium	7440-41-7	156	NMED	n	2.2U	2.2	2.2	0.48	U		2.2U	2.2	2.2	0.48	U	
Cadmium	7440-43-9	70.5	NMED	n	2.2U	5.4	2.2	0.55	U		2.2U	5.5	2.2	0.56	U	
Calcium	7440-70-2	NS	NS	NA	28700	109	87	54			19600	110	88	55		
Chromium	7440-47-3	117000	NMED[S]	n	15.1	5.4	4.3	1.5			8.2	5.5	4.4	1.5		
Cobalt	7440-48-4	23	RSL	n	3.0J	5.4	3.3	0.68	J		3.3J	5.5	3.3	0.69	J	
Copper	7440-50-8	3130	NMED	n	92.1	5.4	4.3	1			50.3	5.5	4.4	1		
Iron	7439-89-6	54800	NMED	n	10700	54	43	9.2			10300	55	44	9.3		
Lead	7439-92-1	400	NMED	IEUBK	18.2	5.4	4.3	1.7			19.1	5.5	4.4	1.8		
Magnesium	7439-95-4	NS	NS	NA	2820	54	43	14			3780	55	44	14		
Manganese	7439-96-5	10500	NMED	n	377	5.4	4.3	1.4			450	5.5	4.4	1.4		
Mercury	7439-97-6	23.5	NMED	n	0.2	0.1	0.04	0.01			0.034J	0.1	0.04	0.01	J	
Nickel	7440-02-0	1560	NMED	n	12	5.4	4.3	0.74			8.7	5.5	4.4	0.75		
Potassium	7440-09-7	NS	NS	NA	898J	1090	543	151	J		1210	1100	549	153		
Selenium	7782-49-2	391	NMED	n	5.4U	5.4	5.4	4	U		5.5U	5.5	5.5	4.1	U	
Silver	7440-22-4	391	NMED	n	0.87U	1.1	0.87	0.39	U		0.88U	1.1	0.88	0.4	U	
Sodium	7440-23-5	NS	NS	NA	205J	1090	543	121	J		250J	1100	549	122	J	
Thallium	7440-28-0	0.782	NMED	n	0.43UJ	0.82	0.43	0.22	U	UJ	0.44UJ	0.82	0.44	0.23	U	UJ

TABLE 1 SUMMARY OF ANALYTICAL DATA

FIELD ID / DATE COLLECTED	CAS Number	Residential Value	Source	Endpoint	P3HWMU-AOC-GRID-09 July 23, 2015						P3HWMU-AOC-GRID-10 July 23, 2015					
					Result	LOQ	LOD	DL	Lab Qualifier	Validation Qualifier	Result	LOQ	LOD	DL	Lab Qualifier	Validation Qualifier
Vanadium	7440-62-2	394	NMED	n	18.8	5.4	4.3	1.1			18.6	5.5	4.4	1.1		
Zinc	7440-66-6	23500	NMED	n	115	54	43	13			66.5	55	44	13		
OTHER PARAMETERS (mg/kg)																
Cyanide	57-12-5	11.2	NMED	n	0.43U	0.54	0.43	0.3	U		0.44U	0.55	0.44	0.31	U	
Nitrate	14797-65-0	125000	NMED	n	29	11	4.8	1.3			35	11	4.8	1.4		
Perchlorate	14797-73-0	54.8	NMED	n	0.0038J	0.006	0.004	0.002	J		0.0055J	0.006	0.004	0.002	J	

Notes:
B = Detected in method blank
BKG = Background
c = cancer
DL =Detection limit
J = Estimated
LOD = Limit of Detection
LOQ = Limit of Quantitation
mg/kg = milligrams per kilogram
ηg/kg = nanograms per kilogram
n = noncancer
NA = not applicable
NMED = New Mexico Environment Department Screening Levels (NMED 2014, December update).
NS = No standard
Qual = Qualifier
RSL = Regional Screening Levels (USEPA 2015, June Update).
s = surrogate
TEQ = Toxicity Equivalence
U = Nondetect
UJ = Estimated Nondetect
*Dioxins/Furans assessed as 2,3,7,8-TCDD TEQ
**Arsenic sceeening value is the background value determined by December 18, 2013 NMED letter. The background value is used because it is higher than the NMED SSL. If the arsenic value of 5.6 is exceeded then consider the site range compared to 0.2-11.2mg/kg. If the result exceeds 5.6, then the NMED SSL of 4.25 will be used to estimate potential risk.

The following screening values are based on surrogate:
1-4-Dichlorobenzene was used as a surrogate for 1,3-dichlorobenzene.
2,4-Dichlorophenol was used as a surrogate for 2,6-dichlorophenol.
1,2-Dichloropropane was used as a surrogate for 2,2-dichloropropane.
1,3-Dichloropropene was used for 1,1-dichloropropene and *cis* - and *trans* - 1,3-dichloropropene.
Isopropyl benzene was used as a surrogate for p-isopropyl toluene.
4-Nitroaniline was used as surrogate for 3-nitroaniline.
Pyrene was used as a surrogate for noncarcinogenic PAHs without toxicity factors.
Chromium III was used as a surrogate for chromium
m-Xylene was used as a surrogate for m,p-Xylenes
TEQ calculation and the TEFs used are from the 2005 World Health Organization (WHO) dioxin toxicity equivalence factors (TEFs) to calculate dioxin toxicity equivalence (TEQ) at CERCLA and RCRA Sites.
(Van den Berg, M. 2005 WHO Reevaluation of Human and Mammalian TEFs Toxicological Sciences 93(2): 223-241, 2006)

Shaded results exceed Residential Value

TABLE 1 SUMMARY OF ANALYTICAL DATA

FIELD ID / DATE COLLECTED	CAS Number	Residential Value	Source	Endpoint	P3HWMU-AOC-GRID-11 July 23, 2015						P3HWMU-AOC-GRID-12 July 23, 2015					
					Result	LOQ	LOD	DL	Lab Qualifier	Validation Qualifier	Result	LOQ	LOD	DL	Lab Qualifier	Validation Qualifier
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
1,1,1,2-Tetrachloroethane	630-20-6	28.1	NMED	c	0.0022U	0.0055	0.0022	0.0011	U		0.0022U	0.0056	0.0022	0.0011	U	
1,1,1-Trichloroethane	71-55-6	14400	NMED	n	0.0022U	0.0055	0.0022	0.00089	U		0.0022U	0.0056	0.0022	0.00091	U	
1,1,2,2-Tetrachloroethane	79-34-5	7.98	NMED	c	0.0022U	0.0055	0.0022	0.0014	U		0.0022U	0.0056	0.0022	0.0014	U	
1,1,2-Trichloroethane	79-00-5	2.61	NMED	n	0.0022U	0.0055	0.0022	0.0011	U		0.0022U	0.0056	0.0022	0.0011	U	
1,1-Dichloroethane	75-34-3	78.6	NMED	c	0.0022U	0.011	0.0022	0.0012	U		0.0022U	0.011	0.0022	0.0013	U	
1,1-Dichloroethene	75-35-4	440	NMED	n	0.0022U	0.0055	0.0022	0.00087	U		0.0022U	0.0056	0.0022	0.00089	U	
1,1-Dichloropropene	563-58-6	29.3	NMED[S]	c	0.0022U	0.0055	0.0022	0.00094	U		0.0022U	0.0056	0.0022	0.00095	U	
1,2,3-Trichlorobenzene	87-61-6	49	RSL	n	0.0022U	0.0055	0.0022	0.00055	U		0.0022U	0.0056	0.0022	0.00056	U	
1,2,3-Trichloropropane	96-18-4	0.051	NMED	c	0.0055U	0.022	0.0055	0.0014	U		0.0056U	0.022	0.0056	0.0014	U	
1,2,4-Trichlorobenzene	120-82-1	82.9	NMED	n	0.0022U	0.0055	0.0022	0.00057	U		0.0022U	0.0056	0.0022	0.00058	U	
1,2,4-Trimethylbenzene	95-63-6	58	RSL	n	0.0022U	0.0055	0.0022	0.0013	U		0.0022U	0.0056	0.0022	0.0013	U	
1,2-Dibromo-3-Chloropropane	96-12-8	0.0858	NMED	c	0.0055U	0.011	0.0055	0.0024	U		0.0056U	0.011	0.0056	0.0025	U	
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.672	NMED	c	0.0022U	0.0055	0.0022	0.00066	U		0.0022U	0.0056	0.0022	0.00067	U	
1,2-Dichlorobenzene	95-50-1	2150	NMED	n	0.0022U	0.0055	0.0022	0.001	U		0.0022U	0.0056	0.0022	0.0011	U	
1,2-Dichloroethane	107-06-2	8.32	NMED	c	0.0022U	0.0055	0.0022	0.00085	U		0.0022U	0.0056	0.0022	0.00086	U	
1,2-Dichloropropane	78-87-5	17.8	NMED	c	0.0022U	0.0055	0.0022	0.00079	U		0.0022U	0.0056	0.0022	0.00081	U	
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	780	RSL	n	0.0022U	0.0055	0.0022	0.0011	U		0.0022U	0.0056	0.0022	0.0011	U	
1,3-Dichlorobenzene	541-73-1	32.8	NMED[S]	c	0.0022U	0.0055	0.0022	0.00066	U		0.0022U	0.0056	0.0022	0.00067	U	
1,3-Dichloropropane	142-28-9	1600	RSL	n	0.0022U	0.0055	0.0022	0.00072	U		0.0022U	0.0056	0.0022	0.00073	U	
1,4-Dichlorobenzene	106-46-7	32.8	NMED	c	0.0022U	0.0055	0.0022	0.00074	U		0.0022U	0.0056	0.0022	0.00075	U	
2,2-Dichloropropane	594-20-7	17.8	NMED[S]	c	0.0022U	0.0055	0.0022	0.0012	U		0.0022U	0.0056	0.0022	0.0012	U	
2-Butanone	78-93-3	37400	NMED	n	0.011U	0.011	0.0033	0.0031	J	U	0.011U	0.011	0.0034	0.0031		U
2-Chlorotoluene	95-49-8	1560	NMED	n	0.0022U	0.0055	0.0022	0.0011	U		0.0022U	0.0056	0.0022	0.0011	U	
2-Hexanone	591-78-6	200	RSL	n	0.0022U	0.011	0.0022	0.00098	U		0.0022U	0.011	0.0022	0.001	U	
4-Chlorotoluene	106-43-4	1600	RSL	n	0.0022U	0.0055	0.0022	0.0012	U		0.0022U	0.0056	0.0022	0.0012	U	
4-Methyl-2-Pentanone	108-10-1	5300	RSL	n	0.0022U	0.011	0.0022	0.001	U		0.0022U	0.011	0.0022	0.001	U	
Acetone	67-64-1	66300	NMED	n	0.1U	0.011	0.0055	0.0031		U	0.09U	0.011	0.0056	0.0031		U
Benzene	71-43-2	17.8	NMED	c	0.0083	0.0055	0.0022	0.00069			0.0051J	0.0056	0.0022	0.00071	J	
Bromobenzene	108-86-1	290	RSL	n	0.0022U	0.0055	0.0022	0.00084	U		0.0022U	0.0056	0.0022	0.00085	U	
Bromochloromethane	74-97-5	150	RSL	n	0.0022U	0.011	0.0022	0.00089	U		0.0022U	0.011	0.0022	0.00091	U	
Bromodichloromethane	75-27-4	6.19	NMED	c	0.0022U	0.0055	0.0022	0.00076	U		0.0022U	0.0056	0.0022	0.00077	U	
Bromoform	75-25-2	674	NMED	c	0.0022U	0.0055	0.0022	0.00088	U		0.0022U	0.0056	0.0022	0.0009	U	
Bromomethane	74-83-9	17.7	NMED	n	0.033	0.0055	0.0022	0.0018			0.019	0.0056	0.0022	0.0018		
Carbon Disulfide	75-15-0	1550	NMED	n	0.0022U	0.0055	0.0022	0.0012	U		0.0014J	0.0056	0.0022	0.0012	J	
Carbon Tetrachloride	56-23-5	10.7	NMED	c	0.0022U	0.0055	0.0022	0.00088	U		0.0022U	0.0056	0.0022	0.0009	U	
Chlorobenzene	108-90-7	378	NMED	n	0.0022U	0.0055	0.0022	0.00054	U		0.0022U	0.0056	0.0022	0.00055	U	
Chloroethane	75-00-3	19000	NMED	n	0.0022U	0.0055	0.0022	0.0017	U		0.0022U	0.0056	0.0022	0.0017	U	
Chloroform	67-66-3	5.9	NMED	c	0.0022U	0.0055	0.0022	0.0016	U		0.0022U	0.0056	0.0022	0.0016	U	
Chloromethane	74-87-3	41.1	NMED	c	0.0083	0.0055	0.0055	0.002			0.0037J	0.0056	0.0056	0.002	J	
cis -1,2-Dichloroethene	156-59-2	156	NMED	n	0.0022U	0.011	0.0022	0.0012	U		0.0022U	0.011	0.0022	0.0012	U	
cis -1,3-Dichloropropene	10061-01-5	29.3	NMED[S]	c	0.0022U	0.0055	0.0022	0.001	U		0.0022U	0.0056	0.0022	0.001	U	
Dibromochloromethane	74-95-3	13.9	NMED	c	0.0022U	0.0055	0.0022	0.00094	U		0.0022U	0.0056	0.0022	0.00095	U	
Dibromomethane	124-48-1	57.9	NMED	n	0.0022U	0.0055	0.0022	0.00096	U		0.0022U	0.0056	0.0022	0.00098	U	
Dichlorodifluoromethane	75-71-8	182	NMED	n	0.0022U	0.011	0.0022	0.0014	U		0.0022U	0.011	0.0022	0.0015	U	
Ethylbenzene	100-41-4	75.1	NMED	c	0.0022U	0.0055	0.0022	0.0011	U		0.0022U	0.0056	0.0022	0.0011	U	
Hexachlorobutadiene	87-68-3	61.1	NMED	n	0.0022U	0.011	0.0022	0.0012	U		0.0022U	0.011	0.0022	0.0013	U	
Isopropylbenzene (Cumene)	98-82-8	2360	NMED	n	0.0022U	0.0055	0.0022	0.0012	U		0.0022U	0.0056	0.0022	0.0012	U	
m,p-Xylene (sum of isomers)	136777-61-2	764	NMED[S]	n	0.0055U	0.011	0.0055	0.0026	U		0.0056U	0.011	0.0056	0.0026	U	
Methyl t-Butyl Ether	1634-04-4	975	NMED	c	0.0022U	0.0055	0.0022	0.00098	U		0.0022U	0.0056	0.0022	0.001	U	
Methylene Chloride	75-09-2	409	NMED	n	0.011U	0.055	0.011	0.005	U		0.011U	0.056	0.011	0.0051	U	
n-Butylbenzene	104-51-8	3900	RSL	n	0.0022U	0.0055	0.0022	0.0014	U		0.0022U	0.0056	0.0022	0.0014	U	
n-Propylbenzene	103-65-1	3300	RSL	n	0.0022U	0.0055	0.0022	0.0013	U		0.0022U	0.0056	0.0022	0.0013	U	
Naphthalene	91-20-3	49.7	NMED	c	0.0022U	0.0055	0.0022	0.0012	U		0.0022U	0.0056	0.0022	0.0013	U	
o-Xylene	95-47-6	805	NMED	n	0.0022U	0.0055	0.0022	0.0011	U		0.0022U	0.0056	0.0022	0.0011	U	
p-Isopropyltoluene	99-87-6	2360	NMED[S]	n	0.0016J	0.0055	0.0022	0.0014	J		0.0014J	0.0056	0.0022	0.0014	J	
sec-Butylbenzene	135-98-8	7800	RSL	n	0.0022U	0.0055	0.0022	0.0012	U		0.0022U	0.0056	0.0022	0.0012	U	
Styrene	100-42-5	7260	NMED	n	0.0022U	0.0055	0.0022	0.0013	U		0.0022U	0.0056	0.0022	0.0014	U	
tert-Butylbenzene	98-06-6	7800	RSL	n	0.0022U	0.0055	0.0022	0.00084	U		0.0022U	0.0056	0.0022	0.00085	U	
Tetrachloroethene	127-18-4	111	NMED	n	0.00078J	0.0055	0.0022	0.00059	J		0.0022U	0.0056	0.0022	0.00061	U	
Toluene	108-88-3	5230	NMED	n	0.0053J	0.0055	0.0022	0.0014	J		0.0036J	0.0056	0.0022	0.0015	J	
trans -1,2-Dichloroethene	156-60-5	295	NMED	n	0.0022U	0.0055	0.0022	0.0015	U		0.0022U	0.0056	0.0022	0.0015	U	
trans -1,3-Dichloropropene	10061-02-6	29.3	NMED[S]	c	0.0022U	0.0055	0.0022	0.00086	U		0.0022U	0.0056	0.0022	0.00087	U	
Trichloroethene	79-01-6	6.77	NMED	n	0.0022U	0.0055	0.0022	0.0011	U		0.0022U	0.0056	0.0022	0.0011	U	
Trichlorofluoromethane	75-69-4	1230	NMED	n	0.0022U	0.0055	0.0022	0.0017	U		0.0022U	0.0056	0.0022	0.0017	U	
Vinyl Chloride	75-01-4	0.742	NMED	c	0.0022U	0.0055	0.0022	0.0019	U		0.0022U	0.0056	0.0022	0.0019	U	
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
1,2,4-Trichlorobenzene	120-82-1	82.9	NMED	n	0.18U	0.36	0.18	0.054	U		0.19U	0.37	0.19	0.055	U	
1,2-Dichlorobenzene	95-50-1	2150	NMED	n	0.18U	0.36	0.18	0.056	U		0.19U	0.37	0.19	0.057	U	
1,3-Dichlorobenzene	541-73-1	32.8	NMED[S]	c	0.18U	0.36	0.18	0.056	U		0.19U	0.37	0.19	0.057	U	
1,4-Dichlorobenzene	106-46-7	32.8	NMED	c	0.18U	0.36	0.18	0.054	U		0.19U	0.37	0.19	0.055	U	
2,4,5-Trichlorophenol	95-95-4	6160	NMED	n	0.18U	0.36	0.18	0.066	U		0.19U	0.37	0.19	0.067	U	
2,4,6-Trichlorophenol	88-06-2	61.6	NMED	n	0.18U	0.36	0.18	0.053	U		0.19U	0.37	0.19	0.054	U	
2,4-Dichlorophenol	120-83-2	185	NMED	n	0.18U	0.36	0.18	0.056	U		0.19U	0.37	0.19	0.057	U	
2,4-Dimethylphenol	105-67-9	1230	NMED	n	0.18U	0.36	0.18	0.048	U		0.19U	0.37	0.19	0.049	U	
2,4-Dinitrophenol	51-28-5	123	NMED	n	0.18U	0.73	0.18	0.059	U		0.19U	0.74	0.19	0.06	U	
2,4-Dinitrotoluene	121-14-2	17.1	NMED	c	0.18U	0.73	0.18	0.07	U		0.19U	0.74	0.19	0.072	U	
2,6-Dinitrotoluene	606-20-2	3.56	NMED	c	0.18U	0.73	0.18	0.067	U		0.19U	0.74	0.19	0.068	U	
2-Chloronaphthalene	91-58-7	6260	NMED	n	0.18U	0.36	0.18	0.058	U		0.19U	0.37	0.19	0.059	U	
2-Chlorophenol	95-57-8	391	NMED	n	0.18U	0.36	0.18	0.049	U		0.19U	0.37	0.19	0.05	U	
2-Methylnaphthalene	91-57-6	230	RSL	n	0.18U	0.36	0.18	0.056	U		0.19U	0.37	0.19	0.057	U	
2-Methylphenol (o-cresol)	95-48-7	3100	RSL	n	0.18U	0.36	0.18	0.05	U		0.19U	0.37	0.19	0.051	U	
2-Nitroaniline	88-74-4	610	RSL	n	0.18U	0.73	0.18	0.069	U		0.19U	0.74	0.19	0.07	U	
2-Nitrophenol	88-75-5	NS	NS	NA	0.18U	0.36	0.18	0.053	U		0.19U	0.37	0.19	0.054	U	
3,3-Dichlorobenzidine	91-94-1	11.8	NMED	c	0.18U	0.73	0.18	0.062	U		0.19U	0.74	0.19	0.063	U	
3-Nitroaniline	99-09-2	270	RSL[S]	c	0.18U	0.73	0.18	0.067	U		0.19U	0.74	0.19	0.068	U	
4,6-Dinitro-2-methylphenol	534-52-1	4.93	NMED	n	0.18U	0.73	0.18	0.062	U		0.19U	0.74	0.19	0.063	U	
4-Bromophenyl-phenylether	101-55-3	NS	NS	NA	0.18U	0.36	0.18	0.062	U		0.19U	0.37	0.19	0.063	U	
4-Chloro-3-methylphenol	59-50-7	6200	RSL	n	0.18U	0.36	0.18	0.065	U		0.19U	0.37	0.19	0.066	U	
4-Chloroaniline	106-47-8	27	RSL	c	0.18U	0.36	0.18	0.018	U		0.19U	0.37	0.19	0.018	U	
4-Chlorophenyl-phenylether	7005-72-3	NS	NS	NA	0.18U	0.36	0.18	0.067	U		0.19U	0.37	0.19	0.068	U	
4-Nitroaniline	100-01-6	270	RSL	c	0.18U	0.36	0.18	0.08	U		0.19U	0.37	0.19	0.082	U	
4-Nitrophenol	100-02-7	NS	NS	NA	0.18U	0.73	0.18	0.066	U		0.19U	0.74	0.19	0.067	U	
Acenaphthene	83-32-9	3480	NMED	n	0.18U	0.36	0.18	0.059	U		0.19U	0.37	0.19	0.06	U	
Acenaphthylene	208-96-8	1740	NMED[S]	n	0.18U	0.36	0.18	0.058	U		0.19U	0.37	0.19	0.06	U	
Anthracene	120-12-7	17400	NMED	n	0.18U	0.36	0.18	0.068	U		0.19U	0.37	0.19	0.069	U	
Benzo(a)anthracene	56-55-3	1.53	NMED	c	0.18U	0.36	0.18	0.064	U		0.19U	0.37	0.19	0.065	U	
Benzo(a)pyrene	50-32-8	0.153	NMED	c	0.14U	0.36	0.14	0.056	U		0.15U	0.37	0.15	0.057	U	

TABLE 1 SUMMARY OF ANALYTICAL DATA

FIELD ID / DATE COLLECTED	CAS Number	Residential Value	Source	Endpoint	P3HWMU-AOC-GRID-11 July 23, 2015						P3HWMU-AOC-GRID-12 July 23, 2015					
					Result	LOQ	LOD	DL	Lab Qualifier	Validation Qualifier	Result	LOQ	LOD	DL	Lab Qualifier	Validation Qualifier
Benzo(b)fluoranthene	205-99-2	1.53	NMED	c	0.18U	0.36	0.18	0.066	U		0.19U	0.37	0.19	0.067	U	
Benzo(g,h,i)perylene	191-24-2	1740	NMED[S]	n	0.18U	0.36	0.18	0.061	U		0.19U	0.37	0.19	0.062	U	
Benzo(k)fluoranthene	207-08-9	15.3	NMED	c	0.18U	0.36	0.18	0.067	U		0.19U	0.37	0.19	0.068	U	
Benzoic Acid	65-85-0	250000	RSL	n	0.18U	0.36	0.18	0.033	U		0.19U	0.37	0.19	0.033	U	
Benzyl Alcohol	100-51-6	6200	RSL	n	0.18U	0.36	0.18	0.061	U		0.19U	0.37	0.19	0.063	U	
bis (2-Chloroethoxy)methane	111-91-1	180	RSL	n	0.18U	0.36	0.18	0.055	U		0.19U	0.37	0.19	0.056	U	
bis (2-Chloroethyl)ether	111-44-4	3.11	NMED	c	0.18U	0.36	0.18	0.055	U		0.19U	0.37	0.19	0.056	U	
bis (2-Chloroisopropyl)ether	108-60-1	99.3	NMED	c	0.18U	0.36	0.18	0.052	U		0.19U	0.37	0.19	0.053	U	
bis (2-Ethylhexyl)phthalate	117-81-7	380	NMED	c	0.18U	0.73	0.18	0.068	U		0.19U	0.74	0.19	0.069	U	
Butylbenzylphthalate	85-68-7	280	RSL	c	0.18U	0.36	0.18	0.061	U		0.19U	0.37	0.19	0.062	U	
Carbazole	86-74-8	NS	NS	NA	0.18U	0.36	0.18	0.09	U		0.19U	0.37	0.19	0.091	U	
Chrysene	218-01-9	153	NMED	c	0.18U	0.36	0.18	0.067	U		0.19U	0.37	0.19	0.068	U	
Di-n-butylphthalate	84-74-2	6160	NMED	n	0.18U	0.36	0.18	0.073	U		0.19U	0.37	0.19	0.074	U	
Di-n-octylphthalate	117-84-0	620	RSL	n	0.18U	0.36	0.18	0.064	U		0.19U	0.37	0.19	0.065	U	
Dibenz(a,h)anthracene	53-70-3	0.153	NMED	c	0.14U	0.36	0.14	0.065	U		0.15U	0.37	0.15	0.067	U	
Dibenzofuran	132-64-9	72	RSL	n	0.18U	0.73	0.18	0.063	U		0.19U	0.74	0.19	0.064	U	
Diethylphthalate	84-66-2	49300	NMED	n	0.18U	0.36	0.18	0.068	U		0.19U	0.37	0.19	0.07	U	
Dimethylphthalate	131-11-3	NS	NS	n	0.18U	0.36	0.18	0.07	U		0.19U	0.37	0.19	0.071	U	
Fluoranthene	206-44-0	2320	NMED	n	0.18U	0.36	0.18	0.072	U		0.19U	0.37	0.19	0.073	U	
Fluorene	86-73-7	2320	NMED	n	0.18U	0.36	0.18	0.068	U		0.19U	0.37	0.19	0.069	U	
Hexachlorobenzene	118-74-1	3.33	NMED	c	0.18U	0.73	0.18	0.066	U		0.19U	0.74	0.19	0.068	U	
Hexachlorobutadiene	87-68-3	61.6	NMED	n	0.18U	0.36	0.18	0.057	U		0.19U	0.37	0.19	0.058	U	
Hexachloroethane	67-72-1	43.1	NMED	n	0.18U	0.36	0.18	0.055	U		0.19U	0.37	0.19	0.056	U	
Indeno(1,2,3-cd)pyrene	193-39-5	1.53	NMED	c	0.18U	0.36	0.18	0.067	U		0.19U	0.37	0.19	0.068	U	
Isophorone	78-59-1	5610	NMED	c	0.18U	0.36	0.18	0.063	U		0.19U	0.37	0.19	0.064	U	
N-Nitroso-di-n-propylamine	621-64-7	0.076	RSL	c	0.18U	0.36	0.18	0.06	U		0.19U	0.37	0.19	0.062	U	
N-Nitrosodimethylamine	62-75-9	0.0234	NMED	c	0.037U	0.36	0.037	0.025	U		0.037U	0.37	0.037	0.025	U	
N-Nitrosodiphenylamine	86-30-6	1090	NMED	c	0.18U	0.36	0.18	0.056	U		0.19U	0.37	0.19	0.057	U	
Naphthalene	91-20-3	49.7	NMED	c	0.18U	0.36	0.18	0.056	U		0.19U	0.37	0.19	0.057	U	
Nitrobenzene	98-95-3	60.4	NMED	c	0.18U	0.36	0.18	0.055	U		0.19U	0.37	0.19	0.056	U	
Pentachlorophenol	87-86-5	9.85	NMED	c	0.18U	0.73	0.18	0.065	U		0.19U	0.74	0.19	0.066	U	
Phenanthrene	85-01-8	1740	NMED	n	0.18U	0.73	0.18	0.064	U		0.19U	0.74	0.19	0.065	U	
Phenol	108-95-2	18500	NMED	n	0.18U	0.36	0.18	0.047	U		0.19U	0.37	0.19	0.048	U	
Pyrene	129-00-0	1740	NMED	n	0.18U	0.36	0.18	0.06	U		0.19U	0.37	0.19	0.061	U	
EXPLOSIVES (mg/kg)																
1,3,5-Trinitrobenzene	99-35-4	2200	RSL	n	0.2U	0.5	0.2	0.08	U		0.2U	0.5	0.2	0.08	U	
1,3-Dinitrobenzene	99-65-0	6.2	RSL	n	0.2U	0.5	0.2	0.06	U		0.2U	0.5	0.2	0.06	U	
2,4,6-Trinitrotoluene	118-96-7	36	NMED	n	0.2U	0.5	0.2	0.08	U		0.12J	0.5	0.2	0.08	J	
2,4-Dinitrotoluene	121-14-2	17.1	NMED	c	0.2U	0.5	0.2	0.08	U		0.2U	0.5	0.2	0.08	U	
2,6-Dinitrotoluene	606-20-2	3.56	NMED	c	0.2U	0.5	0.2	0.08	U		0.2U	0.5	0.2	0.08	U	
2-Amino-4,6-dinitrotoluene	35572-78-2	150	RSL	n	0.096J	0.5	0.2	0.07	J		0.086J	0.5	0.2	0.07	J	
2-Nitrotoluene	88-72-2	31.6	NMED	c	0.2U	0.5	0.2	0.07	U		0.2U	0.5	0.2	0.07	U	
3-Nitrotoluene	99-08-1	6.16	NMED	n	0.2U	0.5	0.2	0.07	U		0.2U	0.5	0.2	0.07	U	
4-Amino-2,6-dinitrotoluene	19406-51-0	150	RSL	n	0.097J	0.5	0.2	0.07	J		0.084J	0.5	0.2	0.07	J	
4-Nitrotoluene	99-99-0	247	NMED	n	0.2U	0.5	0.2	0.08	U		0.2U	0.5	0.2	0.08	U	
Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	121-82-4	60.4	NMED	c	0.25J	0.5	0.2	0.08	J		0.21J	0.5	0.2	0.08	J	
Methyl-2,4,6-Trinitrophenylnitramine (Tetryl)	479-45-8	156	NMED	n	0.2U	0.5	0.2	0.09	U		0.2U	0.5	0.2	0.09	U	
Nitrobenzene	98-95-3	60.4	NMED	c	0.2U	0.5	0.2	0.07	U		0.2U	0.5	0.2	0.07	U	
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0	3850	NMED	n	0.2U	0.5	0.2	0.08	U		0.2U	0.5	0.2	0.08	U	
POLYCHLORINATED BIPHENYLS (mg/kg)																
Aroclor 1016	12674-11-2	3.98	NMED	n	0.022U	0.055	0.022	0.011	U		0.022U	0.056	0.022	0.011	U	
Aroclor 1221	11104-28-2	1.81	NMED	c	0.022U	0.055	0.022	0.0066	U		0.022U	0.056	0.022	0.0067	U	
Aroclor 1232	11141-16-5	1.86	NMED	c	0.011U	0.055	0.011	0.004	U		0.011U	0.056	0.011	0.004	U	
Aroclor 1242	53469-21-9	2.43	NMED	c	0.011U	0.055	0.011	0.004	U		0.011U	0.056	0.011	0.004	U	
Aroclor 1248	12672-29-6	2.43	NMED	c	0.011U	0.055	0.011	0.004	U		0.011U	0.056	0.011	0.004	U	
Aroclor 1254	11097-69-1	1.14	NMED	n	0.011U	0.055	0.011	0.004	U		0.011U	0.056	0.011	0.004	U	
Aroclor 1260	11096-82-5	2.43	NMED	c	0.011U	0.055	0.011	0.004	U		0.011U	0.056	0.011	0.004	U	
DIOXINS/FURANS (ηg/kg)																
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	*	NMED	NA	5.4J	25	5.4		J		4.2J	25	4.2		J	
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	*	NMED	NA	110	25	13				73	25	13			
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	*	NMED	NA	2.8J	12.5	2.8		J		0.35U	12.5	0.35		U	
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	*	NMED	NA	11J	12.5	11		J		9.9J	12.5	9.9		J	
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	*	NMED	NA	0.12U	12.5	0.12		U		0.5U	12.5	0.5		U	
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	*	NMED	NA	0.21U	12.5	0.21		U		0.13U	12.5	0.13		U	
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6	*	NMED	NA	0.15U	12.5	0.15		U		0.2U	12.5	0.2		U	
1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	*	NMED	NA	0.16U	12.5	0.16		U		0.086U	12.5	0.086		U	
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	*	NMED	NA	0.53U	12.5	0.53		U		0.4U	12.5	0.4		U	
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	*	NMED	NA	0.22U	12.5	0.22		U		0.18U	12.5	0.18		U	
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3	*	NMED	NA	0.39U	12.5	0.39		U		0.19U	12.5	0.19		U	
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	*	NMED	NA	0.14U	12.5	0.14		U		0.063U	12.5	0.063		U	
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4	*	NMED	NA	0.07U	12.5	0.07		U		0.13U	12.5	0.13		U	
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	*	NMED	NA	2U	12.5	2		U		2.1U	12.5	2.1		U	
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	*	NMED	NA	0.23U	12.5	0.23		U		0.089U	12.5	0.089		U	
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	490	NMED	c	0.2U	5	0.2		U		0.16U	5	0.16		U	
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	49	NMED	c	0.16U	5	0.16		U		0.096U	5	0.096		U	
TEQ		49	NMED	c	0.17						0.12					
METALS (mg/kg)																
Aluminum	7429-90-5	78000	NMED	n	12000	110	44	22			8970	112	45	22		
Antimony	7440-36-0	31.3	NMED	n	2.0J	5.5	4.4	2	J		4.5U	5.6	4.5	2	U	
Arsenic	7440-38-2	5.6**	BKG	NA	3.9J	5.5	4.4	2.8	J		3.6J	5.6	4.5	2.8	J	
Barium	7440-39-3	15600	NMED	n	246	5.5	4.4	0.83			229	5.6	4.5	0.84		
Beryllium	7440-41-7	156	NMED	n	0.50J	2.2	2.2	0.48	J		2.2U	2.2	2.2	0.49	U	
Cadmium	7440-43-9	70.5	NMED	n	2.2U	5.5	2.2	0.56	U		2.2U	5.6	2.2	0.57	U	
Calcium	7440-70-2	NS	NS	NA	25600	110	88	55			38500	112	90	56		
Chromium	7440-47-3	117000	NMED[S]	n	11.2	5.5	4.4	1.5			8.7	5.6	4.5	1.6		
Cobalt	7440-48-4	23	RSL	n	3.4J	5.5	3.3	0.69	J		3.1J	5.6	3.4	0.71	J	
Copper	7440-50-8	3130	NMED	n	55.7	5.5	4.4	1			30.8	5.6	4.5	1.1		
Iron	7439-89-6	54800	NMED	n	12400	55	44	9.4			10300	56	45	9.5		
Lead	7439-92-1	400	NMED	IEUBK	11.8	5.5	4.4	1.8			8.7	5.6	4.5	1.8		
Magnesium	7439-95-4	NS	NS	NA	4100	55	44	14			3490	56	45	14		
Manganese	7439-96-5	10500	NMED	n	384	5.5	4.4	1.4			497	5.6	4.5	1.5		
Mercury	7439-97-6	23.5	NMED	n	0.14	0.1	0.04	0.01			0.11	0.1	0.04	0.01		
Nickel	7440-02-0	1560	NMED	n	9.7	5.5	4.4	0.75			9.4	5.6	4.5	0.76		
Potassium	7440-09-7	NS	NS	NA	1480	1100	551	153			1100J	1120	561	156	J	
Selenium	7782-49-2	391	NMED	n	5.5U	5.5	5.5	4.1	U		5.6U	5.6	5.6	4.1	U	
Silver	7440-22-4	391	NMED	n	0.88U	1.1	0.88	0.4	U		0.9U	1.1	0.9	0.4	U	
Sodium	7440-23-5	NS	NS	NA	308J	1100	551	122	J		243J	1120	561	124	J	
Thallium	7440-28-0	0.782	NMED	n	0.44UJ	0.83	0.44	0.23	U	UJ	0.45UJ	0.84	0.45	0.23	U	UJ

TABLE 1 SUMMARY OF ANALYTICAL DATA

FIELD ID / DATE COLLECTED	CAS Number	Residential Value	Source	Endpoint	P3HWMU-AOC-GRID-11 July 23, 2015						P3HWMU-AOC-GRID-12 July 23, 2015					
					Result	LOQ	LOD	DL	Lab Qualifier	Validation Qualifier	Result	LOQ	LOD	DL	Lab Qualifier	Validation Qualifier
Vanadium	7440-62-2	394	NMED	n	17.8	5.5	4.4	1.1			17.4	5.6	4.5	1.1		
Zinc	7440-66-6	23500	NMED	n	88.2	55	44	13			29.0J	56	45	13	J	
OTHER PARAMETERS (mg/kg)																
Cyanide	57-12-5	11.2	NMED	n	0.44U	0.55	0.44	0.31	U		0.45U	0.56	0.45	0.31	U	
Nitrate	14797-65-0	125000	NMED	n	39	11	4.8	1.4			36	11	4.9	1.4		
Perchlorate	14797-73-0	54.8	NMED	n	0.011	0.006	0.004	0.002			0.0050J	0.006	0.004	0.002	J	

Notes:
B = Detected in method blank
BKG = Background
c = cancer
DL =Detection limit
J = Estimated
LOD = Limit of Detection
LOQ = Limit of Quantitation
mg/kg = milligrams per kilogram
ηg/kg = nanograms per kilogram
n = noncancer
NA = not applicable
NMED = New Mexico Environment Department Screening Levels (NMED 2014, December update).
NS = No standard
Qual = Qualifier
RSL = Regional Screening Levels (USEPA 2015, June Update).
s = surrogate
TEQ = Toxicity Equivalence
U = Nondetect
UJ = Estimated Nondetect
*Dioxins/Furans assessed as 2,3,7,8-TCDD TEQ
**Arsenic sceeening value is the background value determined by December 18, 2013 NMED letter. The background value is used because it is higher than the NMED SSL. If the arsenic value of 5.6 is exceeded then consider the site range compared to 0.2-11.2mg/kg. If the result exceeds 5.6, then the NMED SSL of 4.25 will be used to estimate potential risk.

The following screening values are based on surrogate:
1-4-Dichlorobenzene was used as a surrogate for 1,3-dichlorobenzene.
2,4-Dichlorophenol was used as a surrogate for 2,6-dichlorophenol.
1,2-Dichloropropane was used as a surrogate for 2,2-dichloropropane.
1,3-Dichloropropene was used for 1,1-dichloropropene and *cis* - and *trans* - 1,3-dichloropropene.
Isopropyl benzene was used as a surrogate for p-isopropyl toluene.
4-Nitroaniline was used as surrogate for 3-nitroaniline.
Pyrene was used as a surrogate for noncarcinogenic PAHs without toxicity factors.
Chromium III was used as a surrogate for chromium
m-Xylene was used as a surrogate for m,p-Xylenes
TEQ calculation and the TEFs used are from the 2005 World Health Organization (WHO) dioxin toxicity equivalence factors (TEFs) to calculate dioxin toxicity equivalence (TEQ) at CERCLA and RCRA Sites.
(Van den Berg, M. 2005 WHO Reevaluation of Human and Mammalian TEFs Toxicological Sciences 93(2): 223-241, 2006)

Shaded results exceed Residential Value

AOC-GRID-07

Chemical	CAS Number	Result (mg/kg)	Background Value (mg/kg)	Exceeds Background Y/N	Residential Screening Value (mg/kg	Exceeds Screening Value (Y/N)	Residential Value Cancer Endpoint (mg/kg)***	Residential Value Noncancer Endpoint (mg/kg)	Source	Target Risk	Estimated Cancer Risk	Target Hazard Quotient	Estimated Hazard Quotient	Target Organ
VOCs (mg/kg)														
1,2,3-Trichlorobenzene	87-61-6	0.001	NA					49	RSL	1E-05		1	0.00002	
1.2.4-Trichlorobenzene	120-82-1	0.001	NA					82.9	NMED	1E-05		1	0.000012	
Benzene	71-43-2	0.0077	NA				17.8		NMED	1E-05	4.33E-09	1		
Bromomethane	74-83-9	0.041	NA					17.7	NMED	1E-05		1	0.0023	
Chloromethane	74-87-3	0.014	NA				41.1		NMED	1E-05	3.41E-09	1		
p-Isopropyltoluene	99-87-6	0.0016	NA					2360	NMED	1E-05		1	0.000001	
Naphthalene	91-20-3	0.007	NA				49.7		NMED	1E-05	1.41E-09	1		
Tetrachloroethene	127-18-4	0.00061	NA				111		NMED	1E-05	5.50E-11	1		
Toluene	108-88-3	0.0047	NA					5230	NMED	1E-05		1	0.0000009	
Explosives (mg/kg)														
2,4,6-Trinitrotoluene	118-96-7	0.089	NA					36	NMED	1E-05		1	0.002	
2-Amino-4,6-dinitrotoluene	35572-78-2	0.10	NA					150	RSL	1E-05		1	0.0007	
4-Amino-2,6-dinitrotoluene	19406-51-0	0.10	NA					150	RSL	1E-05		1	0.0007	
RDX	121-82-4	1	NA				60.4		NMED	1E-05	1.66E-07	1		
HMX	2691-41-0	0.25	NA					3850	NMED	1E-05		1	0.00006	
Dixons/Furans (ng/kg)														
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	4.8	NA							1E-05		1		
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	80	NA							1E-05		1		
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	12	NA							1E-05		1		
TEQ***		0.15	NA				49		NMED	1E-05	3.06E-08	1		
Metals (mg/kg)														
Aluminum	7429-90-5	8410	23340	N				78000	NMED	1E-05		1		
Antimony*	7440-36-0	3.8	0.23	Y				31.3	NMED	1E-05		1	0.12	
Arsenic**	7440-38-2	3.9	5.6	N			4.25		NMED	1E-05		1		
Barium	7440-39-3	228	482	N				15600	NMED	1E-05		1		
Chromium****	7440-47-3	12.3	18.10	N				117000	NMED	1E-05		1		
Cobalt	7440-48-4	3.2	6.82	N				23	RSL	1E-05		1		
Copper	7440-50-8	91.5	18.40	Y				3130	NMED	1E-05		1	0.03	
Iron	7439-89-6	11100	22660	N				54800	NMED	1E-05		1		
Lead	7439-92-1	21.0	12.40	Y	400	N	NA	NA	NMED	NA		NA		
Manganese	7439-96-5	343	1058	N				10500	NMED	1E-05		1		
Mercury	7439-97-6	0.12	0.03	Y				23.5	NMED	1E-05		1	0.005	
Nickel	7440-02-0	10.5	19.50	N				1560	NMED	1E-05		1		
Vanadium	7440-62-2	16.6	27.2	N				394	NMED	1E-05		1		
Zinc	7440-66-6	62.2	49.2	Y				23500	NMED	1E-05		1	0.003	
Other Parameters (mg/kg)														
Nitrate	14797-65-0	23	NA					125000	NMED	1E-05		1	0.0002	
Perchlorate	14797-73-0	0.0090	NA					54.8	NMED	1E-05		1	0.0002	
										Total	**2E-07**	**Total**	**0.16**	

Except for arsenic and antimony, background values are the 95% UTLs from the 2009 Background document.

* Background value is the 95% UTL for soil unit 350ss based on the 2012 background study.

**Arsenic value determined by December 18, 2013 NMED letter.

If arsenic value of 5.6 is exceeded then consider the site range compared to 0.2 - 11.2 mg/kg

NMED = New Mexico Environment Department Screening Levels (NMED 2014, December update).

RSL = Regional Screening Levels (USEPA 2014, November Update).

***The dioxin and furan result and screening values are presented in ng/kg. TEQ calculation and the TEFs are from the 2005 World Health Organization (WHO) dioxin toxicity equivalence factors (TEFs) to calculate dioxin toxicity equivalence (TEQ) at CERCLA and RCRA Sites. (Van den Berg, 2005 WHO Reevaluation of Human and Mammalian TEFs Toxicological Sciences 93(2):223-241, 2006)

****Chromium screening value is for Cr+++.

AOC-GRID-08

Chemical	CAS Number	Result (mg/kg)	Background Value (mg/kg)	Exceeds Background Y/N	Residential Screening Value (mg/kg)	Exceeds Screening Value (Y/N)	Residential Value Cancer Endpoint (mg/kg)***	Residential Value Noncancer Endpoint (mg/kg)	Source	Target Risk	Estimated Cancer Risk	Target Hazard Quotient	Estimated Hazard Quotient	Target Organ
VOCs (mg/kg)														
1,2,3-Trichlorobenzene	87-61-6	0.0013	NA					49	RSL	1E-05		1	0.00003	
1.2.4-Trichlorobenzene	120-82-1	0.0013	NA					82.9	NMED	1E-05		1	0.00002	
Benzene	71-43-2	0.0061	NA				17.8		NMED	1E-05	3.43E-09	1		
Bromomethane	74-83-9	0.072	NA					17.7	NMED	1E-05		1	0.0041	
Chloromethane	74-87-3	0.015	NA				41.1		NMED	1E-05	3.65E-09	1		
p-Isopropyltoluene	99-87-6	0.0018	NA					2360	NMED	1E-05		1	0.000001	
Naphthalene	91-20-3	0.008	NA				49.7		NMED	1E-05	1.61E-09	1		
Toluene	108-88-3	0.0036	NA					5230	NMED	1E-05		1	0.0000007	
Explosives (mg/kg)														
2,4,6-Trinitrotoluene	118-96-7	0.66	NA					36	NMED	1E-05		1	0.018	
2-Amino-4,6-dinitrotoluene	35572-78-2	0.14	NA					150	RSL	1E-05		1	0.0009	
4-Amino-2,6-dinitrotoluene	19406-51-0	0.13	NA					150	RSL	1E-05		1	0.0009	
RDX	121-82-4	0.20	NA				60.4		NMED	1E-05	3.31E-08	1		
Dixons/Furans (ng/kg)														
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	5.1	NA							1E-05		1		
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	82	NA							1E-05		1		
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	2.2	NA							1E-05		1		
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	10	NA							1E-05		1		
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	0.84	NA							1E-05		1		
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	0.34	NA							1E-05		1		
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	0.32	NA							1E-05		1		
TEQ***		0.28	NA				49		NMED	1E-05	5.71E-08	1		
Metals (mg/kg)														
Aluminum	7429-90-5	7830	23340	N				78000	NMED	1E-05		1		
Arsenic**	7440-38-2	3.3	5.6	N			4.25		NMED	1E-05		1		
Barium	7440-39-3	231	482	N				15600	NMED	1E-05		1		
Chromium****	7440-47-3	7.3	18.10	N				117000	NMED	1E-05		1		
Cobalt	7440-48-4	3.1	6.82	N				23	RSL	1E-05		1		
Copper	7440-50-8	47.2	18.40	Y				3130	NMED	1E-05		1	0.02	
Iron	7439-89-6	9080	22660	N				54800	NMED	1E-05		1		
Lead	7439-92-1	9.7	12.40	N	400	N	NA	NA	NMED	NA		NA		
Manganese	7439-96-5	422	1058	N				10500	NMED	1E-05		1		
Mercury	7439-97-6	0.1	0.03	Y				23.5	NMED	1E-05		1	0.004	
Nickel	7440-02-0	8	19.50	N				1560	NMED	1E-05		1		
Vanadium	7440-62-2	16.2	27.2	N				394	NMED	1E-05		1		
Zinc	7440-66-6	49.1	49.2	N				23500	NMED	1E-05		1		
Other Parameters (mg/kg)														
Nitrate	14797-65-0	47	NA					125000	NMED	1E-05		1	0.0004	
Perchlorate	14797-73-0	0.0088	NA					54.8	NMED	1E-05		1	0.0002	
										Total	**1E-07**	**Total**	**0.04**	

Except for arsenic and antimony, background values are the 95% UTLs from the 2009 Background document.

**Arsenic value determined by December 18, 2013 NMED letter.

If arsenic value of 5.6 is exceeded then consider the site range compared to 0.2 - 11.2 mg/kg

NMED = New Mexico Environment Department Screening Levels (NMED 2014, December update).

RSL = Regional Screening Levels (USEPA 2014, November Update).

***The dioxin and furan result and screening values are presented in ng/kg. TEQ calculation and the TEFs are from the 2005 World Health Organization (WHO) dioxin toxicity equivalence factors (TEFs) to calculate dioxin toxicity equivalence (TEQ) at CERCLA and RCRA Sites. (Van den Berg, 2005 WHO Reevaluation of Human and Mammalian TEFs Toxicological Sciences 93(2):223-241, 2006)

****Chromium screening value is for Cr+++.

AOC-GRID-09

Chemical	CAS Number	Result (mg/kg)	Background Value (mg/kg)	Exceeds Background Y/N	Residential Screening Value (mg/kg)	Exceeds Screening Value (Y/N)	Residential Value Cancer Endpoint (mg/kg)***	Residential Value Noncancer Endpoint (mg/kg)	Source	Target Risk	Estimated Cancer Risk	Target Hazard Quotient	Estimated Hazard Quotient	Target Organ
VOCs (mg/kg)														
Benzene	71-43-2	0.0062	NA				17.8		NMED	1E-05	3.48E-09	1		
Bromomethane	74-83-9	0.052	NA					17.7	NMED	1E-05		1	0.003	
Chloromethane	74-87-3	0.015	NA				41.1		NMED	1E-05	3.65E-09	1		
p-Isopropyltoluene	99-87-6	0.0022	NA					2360	NMED	1E-05		1	0.000001	
Toluene	108-88-3	0.0045	NA					5230	NMED	1E-05		1	0.0000009	
Explosives (mg/kg)														
2,4,6-Trinitrotoluene	118-96-7	17	NA					36	NMED	1E-05		1	0.47	
4-Amino-2,6-dinitrotoluene	19406-51-0	0.14	NA					150	RSL	1E-05		1	0.0009	
RDX	121-82-4	1.1	NA				60.4		NMED	1E-05	1.82E-07	1		
HMX	2691-41-0	0.30	NA					3850	NMED	1E-05		1	0.00008	
Dixons/Furans (ng/kg)														
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	3.8	NA							1E-05		1		
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	89	NA							1E-05		1		
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	2.6	NA							1E-05		1		
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	14	NA							1E-05		1		
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	0.41	NA							1E-05		1		
1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	0.38	NA							1E-05		1		
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	0.84	NA							1E-05		1		
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3	0.77	NA							1E-05		1		
TEQ***		0.43	NA				49		NMED	1E-05	8.78E-08	1		
Metals (mg/kg)														
Aluminum	7429-90-5	7350	23340	N				78000	NMED	1E-05		1		
Antimony*	7440-36-0	8	0.23	Y				31.3	NMED	1E-05		1	0.26	
Arsenic**	7440-38-2	3.2	5.6	N			4.25		NMED	1E-05		1		
Barium	7440-39-3	239	482	N				15600	NMED	1E-05		1		
Chromium****	7440-47-3	15.1	18.10	N				117000	NMED	1E-05		1		
Cobalt	7440-48-4	3.0	6.82	N				23	RSL	1E-05		1		
Copper	7440-50-8	92.1	18.40	Y				3130	NMED	1E-05		1	0.03	
Iron	7439-89-6	10700	22660	N				54800	NMED	1E-05		1		
Lead	7439-92-1	18.2	12.40	Y	400	N	NA	NA	NMED	NA		NA		
Manganese	7439-96-5	377	1058	N				10500	NMED	1E-05		1		
Mercury	7439-97-6	0.2	0.03	Y				23.5	NMED	1E-05		1	0.009	
Nickel	7440-02-0	12	19.50	N				1560	NMED	1E-05		1		
Vanadium	7440-62-2	18.8	27.2	N				394	NMED	1E-05		1		
Zinc	7440-66-6	115	49.2	Y				23500	NMED	1E-05		1	0.005	
Other Parameters (mg/kg)														
Nitrate	14797-65-0	29	NA					125000	NMED	1E-05		1	0.0002	
Perchlorate	14797-73-0	0.0038	NA					54.8	NMED	1E-05		1	0.0001	
										Total	**3E-07**	**Total**	**0.77**	

Except for arsenic and antimony, background values are the 95% UTLs from the 2009 Background document.

* Background value is the 95% UTL for soil unit 350ss based on the 2012 background study.

**Arsenic value determined by December 18, 2013 NMED letter.

If arsenic value of 5.6 is exceeded then consider the site range compared to 0.2 - 11.2 mg/kg

NMED = New Mexico Environment Department Screening Levels (NMED 2014, December update).

RSL = Regional Screening Levels (USEPA 2014, November Update).

***The dioxin and furan result and screening values are presented in ng/kg. TEQ calculation and the TEFs are from the 2005 World Health Organization (WHO) dioxin toxicity equivalence factors (TEFs) to calculate dioxin toxicity equivalence (TEQ) at CERCLA and RCRA Sites. (Van den Berg, 2005 WHO Reevaluation of Human and Mammalian TEFs Toxicological Sciences 93(2):223-241, 2006)

****Chromium screening value is for Cr+++.

AOC-GRID-10

Chemical	CAS Number	Result (mg/kg)	Background Value (mg/kg)	Exceeds Background Y/N	Residential Screening Value (mg/kg)	Exceeds Screening Value (Y/N)	Residential Value Cancer Endpoint (mg/kg)***	Residential Value Noncancer Endpoint (mg/kg)	Source	Target Risk	Estimated Cancer Risk	Target Hazard Quotient	Estimated Hazard Quotient	Target Organ
VOCs (mg/kg)														
Benzene	71-43-2	0.0047	NA				17.8		NMED	1E-05	2.64E-09	1		
Bromomethane	74-83-9	0.022	NA					17.7	NMED	1E-05		1	0.001	
Carbon Disulfide	75-15-0	0.0024	NA					1550	NMED	1E-05		1	0.000002	
Chloromethane	74-87-3	0.016	NA				41.1		NMED	1E-05	3.89E-09	1		
p-Isopropyltoluene	99-87-6	0.0022	NA					2360	NMED	1E-05		1	0.000001	
Tetrachloroethene	127-18-4	0.00069	NA				111		NMED	1E-05	6.22E-11	1		
Toluene	108-88-3	0.0035	NA					5230	NMED	1E-05		1	0.0000007	
Explosives (mg/kg)														
2,4,6-Trinitrotoluene	118-96-7	2.4	NA					36	NMED	1E-05		1	0.07	
2-Amino-4,6-dinitrotoluene	35572-78-2	0.11	NA					150	RSL	1E-05		1	0.0007	
4-Amino-2,6-dinitrotoluene	19406-51-0	0.090	NA					150	RSL	1E-05		1	0.0006	
RDX	121-82-4	4.8	NA				60.4		NMED	1E-05	7.95E-07	1		
HMX	2691-41-0	1.3	NA					3850	NMED	1E-05		1	0.0003	
Dixons/Furans (ng/kg)														
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	4	NA							1E-05		1		
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	54	NA							1E-05		1		
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	7.3	NA							1E-05		1		
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	0.49	NA							1E-05		1		
TEQ***		0.14	NA				49		NMED	1E-05	2.86E-08	1		
Metals (mg/kg)														
Aluminum	7429-90-5	10400	23340	N				78000	NMED	1E-05		1		
Arsenic**	7440-38-2	3.7	5.6	N			4.25		NMED	1E-05		1		
Barium	7440-39-3	238	482	N				15600	NMED	1E-05		1		
Chromium****	7440-47-3	8.2	18.10	N				117000	NMED	1E-05		1		
Cobalt	7440-48-4	3.3	6.82	N				23	RSL	1E-05		1		
Copper	7440-50-8	50.3	18.40	Y				3130	NMED	1E-05		1	0.02	
Iron	7439-89-6	10300	22660	N				54800	NMED	1E-05		1		
Lead	7439-92-1	19.1	12.40	Y	400	N	NA	NA	NMED	NA		NA		
Manganese	7439-96-5	450	1058	N				10500	NMED	1E-05		1		
Mercury	7439-97-6	0.034	0.03	Y				23.5	NMED	1E-05		1	0.001	
Nickel	7440-02-0	8.7	19.50	N				1560	NMED	1E-05		1		
Vanadium	7440-62-2	18.6	27.2	N				394	NMED	1E-05		1		
Zinc	7440-66-6	66.5	49.2	Y				23500	NMED	1E-05		1	0.003	
Other Parameters (mg/kg)														
Nitrate	14797-65-0	35	NA					125000	NMED	1E-05		1	0.0003	
Perchlorate	14797-73-0	0.0055	NA					54.8	NMED	1E-05		1	0.0001	
										Total	**8E-07**	**Total**	**0.09**	

Except for arsenic and antimony, background values are the 95% UTLs from the 2009 Background document.

**Arsenic value determined by December 18, 2013 NMED letter.

If arsenic value of 5.6 is exceeded then consider the site range compared to 0.2 - 11.2 mg/kg

NMED = New Mexico Environment Department Screening Levels (NMED 2014, December update).

RSL = Regional Screening Levels (USEPA 2014, November Update).

***The dioxin and furan result and screening values are presented in ng/kg. TEQ calculation and the TEFs are from the 2005 World Health Organization (WHO) dioxin toxicity equivalence factors (TEFs) to calculate dioxin toxicity equivalence (TEQ) at CERCLA and RCRA Sites. (Van den Berg, 2005 WHO Reevaluation of Human and Mammalian TEFs Toxicological Sciences 93(2):223-241, 2006)

****Chromium screening value is for Cr+++.

AOC-GRID-11

Chemical	CAS Number	Result (mg/kg)	Background Value (mg/kg)	Exceeds Background Y/N	Residential Screening Value (mg/kg)	Exceeds Screening Value (Y/N)	Residential Value Cancer Endpoint (mg/kg)***	Residential Value Noncancer Endpoint (mg/kg)	Source	Target Risk	Estimated Cancer Risk	Target Hazard Quotient	Estimated Hazard Quotient	Target Organ
VOCs (mg/kg)														
Benzene	71-43-2	0.0083	NA				17.8		NMED	1E-05	4.66E-09	1		
Bromomethane	74-83-9	0.033	NA					17.7	NMED	1E-05		1	0.002	
Chloromethane	74-87-3	0.0083	NA				41.1		NMED	1E-05	2.02E-09	1		
p-Isopropyltoluene	99-87-6	0.0016	NA					2360	NMED	1E-05		1	0.000001	
Tetrachloroethene	127-18-4	0.00078	NA				111		NMED	1E-05	7.03E-11	1		
Toluene	108-88-3	0.0053	NA					5230	NMED	1E-05		1	0.0000010	
Explosives (mg/kg)														
2-Amino-4,6-dinitrotoluene	35572-78-2	0.096	NA					150	RSL	1E-05		1	0.0006	
4-Amino-2,6-dinitrotoluene	19406-51-0	0.097	NA					150	RSL	1E-05		1	0.0006	
RDX	121-82-4	0.25	NA				60.4		NMED	1E-05	4.14E-08	1		
Dixons/Furans (ng/kg)														
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	5.4	NA							1E-05		1		
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	110	NA							1E-05		1		
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	2.8	NA							1E-05		1		
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	11	NA							1E-05		1		
TEQ***		0.17	NA				49		NMED	1E-05	3.47E-08	1		
Metals (mg/kg)														
Aluminum	7429-90-5	12000	23340	N				78000	NMED	1E-05		1		
Antimony*	7440-36-0	2.0	0.23	Y				31.3	NMED	1E-05		1	0.06	
Arsenic**	7440-38-2	3.9	5.6	N			4.25		NMED	1E-05		1		
Barium	7440-39-3	246	482	N				15600	NMED	1E-05		1		
Beryllium	7440-41-7	0.50	1.49	N				156	NMED	1E-05		1		
Chromium****	7440-47-3	11.2	18.10	N				117000	NMED	1E-05		1		
Cobalt	7440-48-4	3.4	6.82	N				23	RSL	1E-05		1		
Copper	7440-50-8	55.7	18.40	Y				3130	NMED	1E-05		1	0.02	
Iron	7439-89-6	12400	22660	N				54800	NMED	1E-05		1		
Lead	7439-92-1	11.8	12.40	N	400	N	NA	NA	NMED	NA		NA		
Manganese	7439-96-5	384	1058	N				10500	NMED	1E-05		1		
Mercury	7439-97-6	0.14	0.03	Y				23.5	NMED	1E-05		1	0.006	
Nickel	7440-02-0	9.7	19.50	N				1560	NMED	1E-05		1		
Vanadium	7440-62-2	17.8	27.2	N				394	NMED	1E-05		1		
Zinc	7440-66-6	88.2	49.2	Y				23500	NMED	1E-05		1	0.004	
Other Parameters (mg/kg)														
Nitrate	14797-65-0	39	NA					125000	NMED	1E-05		1	0.0003	
Perchlorate	14797-73-0	0.011	NA					54.8	NMED	1E-05		1	0.0002	
										Total	**8E-08**	**Total**	**0.10**	

Except for arsenic and antimony, background values are the 95% UTLs from the 2009 Background document.

* Background value is the 95% UTL for soil unit 350ss based on the 2012 background study.

**Arsenic value determined by December 18, 2013 NMED letter.

If arsenic value of 5.6 is exceeded then consider the site range compared to 0.2 - 11.2 mg/kg

NMED = New Mexico Environment Department Screening Levels (NMED 2014, December update).

RSL = Regional Screening Levels (USEPA 2014, November Update).

***The dioxin and furan result and screening values are presented in ng/kg. TEQ calculation and the TEFs are from the 2005 World Health Organization (WHO) dioxin toxicity equivalence factors (TEFs) to calculate dioxin toxicity equivalence (TEQ) at CERCLA and RCRA Sites. (Van den Berg, 2005 WHO Reevaluation of Human and Mammalian TEFs Toxicological Sciences 93(2):223-241, 2006)

****Chromium screening value is for Cr+++.

AOC-GRID-12

Chemical	CAS Number	Result (mg/kg)	Background Value (mg/kg)	Exceeds Background Y/N	Residential Screening Value (mg/kg)	Exceeds Screening Value (Y/N)	Residential Value Cancer Endpoint (mg/kg)***	Residential Value Noncancer Endpoint (mg/kg)	Source	Target Risk	Estimated Cancer Risk	Target Hazard Quotient	Estimated Hazard Quotient	Target Organ
VOCs (mg/kg)														
Benzene	71-43-2	0.0051	NA				17.8		NMED	1E-05	2.87E-09	1		
Bromomethane	74-83-9	0.019	NA					17.7	NMED	1E-05		1	0.001	
Carbon Disulfide	75-15-0	0.0014	NA					1550	NMED	1E-05		1	0.000001	
Chloromethane	74-87-3	0.0037	NA				41.1		NMED	1E-05	9.00E-10	1		
p-Isopropyltoluene	99-87-6	0.0014	NA					2360	NMED	1E-05		1	0.000001	
Toluene	108-88-3	0.0036	NA					5230	NMED	1E-05		1	0.0000007	
Explosives (mg/kg)														
2,4,6-Trinitrotoluene	118-96-7	0.12	NA					36	NMED	1E-05		1	0.003	
2-Amino-4,6-dinitrotoluene	35572-78-2	0.086	NA					150	RSL	1E-05		1	0.0006	
4-Amino-2,6-dinitrotoluene	19406-51-0	0.084	NA					150	RSL	1E-05		1	0.0006	
RDX	121-82-4	0.21	NA				60.4		NMED	1E-05	3.48E-08	1		
Dixons/Furans (ng/kg)														
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	4.2	NA							1E-05		1		
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	73	NA							1E-05		1		
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	9.9	NA							1E-05		1		
TEQ***		0.12	NA				49		NMED	1E-05	2.45E-08	1		
Metals (mg/kg)														
Aluminum	7429-90-5	8970	23340	N				78000	NMED	1E-05		1		
Arsenic**	7440-38-2	3.6	5.6	N			4.25		NMED	1E-05		1		
Barium	7440-39-3	229	482	N				15600	NMED	1E-05		1		
Chromium****	7440-47-3	8.7	18.10	N				117000	NMED	1E-05		1		
Cobalt	7440-48-4	3.1	6.82	N				23	RSL	1E-05		1		
Copper	7440-50-8	30.8	18.40	Y				3130	NMED	1E-05		1	0.01	
Iron	7439-89-6	10300	22660	N				54800	NMED	1E-05		1		
Lead	7439-92-1	8.7	12.40	N	400	N	NA	NA	NMED	NA		NA		
Manganese	7439-96-5	497	1058	N				10500	NMED	1E-05		1		
Mercury	7439-97-6	0.11	0.03	Y				23.5	NMED	1E-05		1	0.005	
Nickel	7440-02-0	9.4	19.50	N				1560	NMED	1E-05		1		
Vanadium	7440-62-2	17.4	27.2	N				394	NMED	1E-05		1		
Zinc	7440-66-6	29.0	49.2	N				23500	NMED	1E-05		1		
Other Parameters (mg/kg)														
Cyanide	57-12-5		NA					11.2	NMED	1E-05		1	0.0000	
Nitrate	14797-65-0	36	NA					125000	NMED	1E-05		1	0.0003	
Perchlorate	14797-73-0	0.0050	NA					54.8	NMED	1E-05		1	0.0001	
										Total	**6E-08**	**Total**	**0.02**	

Except for arsenic and antimony, background values are the 95% UTLs from the 2009 Background document.

**Arsenic value determined by December 18, 2013 NMED letter.

If arsenic value of 5.6 is exceeded then consider the site range compared to 0.2 - 11.2 mg/kg

NMED = New Mexico Environment Department Screening Levels (NMED 2014, December update).

RSL = Regional Screening Levels (USEPA 2014, November Update).

***The dioxin and furan result and screening values are presented in ng/kg. TEQ calculation and the TEFs are from the 2005 World Health Organization (WHO) dioxin toxicity equivalence factors (TEFs) to calculate dioxin toxicity equivalence (TEQ) at CERCLA and RCRA Sites. (Van den Berg, 2005 WHO Reevaluation of Human and Mammalian TEFs Toxicological Sciences 93(2):223-241, 2006)

****Chromium screening value is for Cr+++.