Table 4: Preliminary Backfill and Topsoil Analytical Results Summary Table - TAL SVOCs
Holy Trinity Cemetery Site
Lewiston, Niagra County, New York
April 27, 2021

START V Sample Number	[1]EPA RML Residential Soil (µg/kg)	[2]NYSDEC RUSCO (µg/kg)	HTCRV2-GRAB-CF02-01	HTCRV2-GRAB-CF02-02	HTCRV2-GRAB-TS01-01	HTCRV2-GRAB-TS01-02
Sampling Date			4/27/2021	4/27/2021	4/27/2021	4/27/2021
Sample Matrix			Backfill	Backfill	Topsoil	Topsoil
TCL SVOC (µg/kg)						
Benzaldehyde	7,800,000	NS	130 U	130 U	150 U	150 U
Phenol	19,000,000	330	50.3 U	50.3 U	57.6 U	57.0 U
bis(2-Chloroethyl)ether	23,000	NS	39.8 U	39.8 U	45.6 U	45.1 U
2-Chlorophenol	390,000	NS	43.2 U	43.2 U	49.4 U	49.0 U
2-Methylphenol	3,200,000	330	51.1 U	51.1 U	58.5 U	58.0 U
2,2-oxybis(1-Chloropropane)	3,100,000	NS	53.2 U	53.2 U	60.9 U	60.3 U
Acetophenone	7,800,000	NS	60.5 U	60.5 U	69.2 U	68.6 U
3+4-Methylphenols	NS	NS	62.9 U	62.9 U	72.0 U	71.4 U
N-Nitroso-di-n-propylamine	7,800	NS	54.0 U	54.0 U	61.8 U	61.2 U
Hexachloroethane	45,000	NS	52.1 U	52.1 U	59.7 U	59.1 U
Nitrobenzene	130,000	NS	58.9 U	58.9 U	67.4 U	66.8 U
Isophorone	13,000,000	NS	60.2 U	60.3 U	69.0 U	68.4 U
2-Nitrophenol	NS	NS	83.1 U	83.1 U	95.1 U	94.3 U
2,4-Dimethylphenol	1,300,000	NS	80.8 U	80.8 U	92.5 U	91.7 U
Bis(2-Chloroethoxy)methane	190,000	NS	60.0 U	60.1 U	68.7 U	68.1 U
2,4-Dichlorophenol	190,000	NS	68.0 U	68.0 U	77.8 U	77.1 U
Naphthalene	130,000	12,000	61.9 U	61.9 U	70.9 U	70.2 U
4-Chloroaniline	250,000	NS	69.8 U	69.8 U	79.9 U	79.2 U
Hexachlorobutadiene	78,000	NS	83.0 U	83.0 U	95.0 U	94.1 U
Caprolactam	31,000,000	NS	120 U	120 U	140 U	140 U
4-Chloro-3-methylphenol	6,300,000	NS	71.5 U	71.5 U	81.8 U	81.1 U
2-Methylnaphthalene	240,000	NS	76.5 U	76.5 U	87.6 U	86.8 U
Hexachlorocyclopentadiene	1,800	NS	160 U	160 U	180 U	180 U
2,4,6-Trichlorophenol	63,000	NS	77.1 U	77.1 U	88.3 U	87.5 U
2,4,5-Trichlorophenol	6,300,000	NS	74.8 U	74.9 U	85.7 U	84.9 U
1,1-Biphenyl	47,000	NS	72.4 U	72.4 U	82.9 U	82.1 U
2-Chloronaphthalene	4,800,000	NS	68.9 U	68.9 U	78.9 U	78.2 U
2-Nitroaniline	630,000	NS	100 U	100 U	120 U	120 U
Dimethylphthalate	NS	NS	**100 J**	**110 J**	**220**	**120 J**
Acenaphthylene	NS	100,000	62.4 U	62.4 U	71.5 U	70.8 U
2,6-Dinitrotoluene	19,000	NS	70.6 U	70.7 U	80.9 U	80.1 U
3-Nitroaniline	NS	NS	83.0 U	83.0 U	95.0 U	94.1 U
Acenaphthene	3,600,000	98,000	69.3 U	69.3 U	79.3 U	78.6 U
2,4-Dinitrophenol	130,000	NS	200 U	200 U	230 U	230 U
4-Nitrophenol	NS	NS	140 U	140 U	**380 J**	160 U
Dibenzofuran	78,000	14,000	67.9 U	67.9 U	77.7 U	77.0 U
2,4-Dinitrotoluene	130,000	NS	90.5 U	90.5 U	**210**	100 U
Diethylphthalate	51,000,000	NS	64.1 U	64.1 U	**350**	72.7 U
4-Chlorophenyl-phenylether	NS	NS	86.0 U	86.0 U	98.4 U	97.5 U
Fluorene	2,400,000	100,000	74.4 U	74.5 U	85.2 U	84.5 U
4-Nitroaniline	250,000	NS	88.8 U	88.9 U	**320**	100 U
4,6-Dinitro-2-methylphenol	5,100	NS	99.5 U	99.6 U	110 U	110 U
N-Nitrosodiphenylamine	11,000,000	NS	58.9 U	58.9 U	67.4 U	66.8 U
4-Bromophenyl-phenylether	NS	NS	75.6 U	75.6 U	86.5 U	85.7 U
Hexachlorobenzene	21,000	330	81.1 U	81.2 U	92.9 U	92.0 U
Atrazine	240,000	NS	110 U	110 U	120 U	120 U
Pentachlorophenol	100,000	800	130 U	130 U	150 U	150 U
Phenanthrene	NS	100,000	69.4 U	69.4 U	**140 J**	78.7 U
Anthracene	18,000,000	100,000	76.7 U	76.7 U	**130 J**	87.0 U
Carbazole	NS	NS	79.4 U	79.4 U	**540**	90.1 U
Di-n-butylphthalate	6,300,000	NS	92.0 U	92.1 U	**990**	100 U
Fluoranthene	2,400,000	100,000	80.5 U	80.5 U	**820**	91.3 U
Pyrene	1,800,000	100,000	57.0 U	57.0 U	**770**	64.6 U
Butylbenzylphthalate	13,000,000	NS	71.9 U	71.9 U	**1,700**	81.5 U
3,3-Dichlorobenzidine	120,000	NS	93.0 U	93.1 U	110 U	110 U
Benzo(a)anthracene	110,000	1,000	70.5 U	70.6 U	**1,100**	80.0 U
Chrysene	11,000,000	1,000	66.1 U	66.1 U	**1,100**	75.0 U
Bis(2-ethylhexyl)phthalate	1,300,000	NS	88.0 U	88.0 U	**1,400**	99.9 U
Di-n-octyl phthalate	630,000	NS	89.2 U	89.3 U	**380 J**	100 U
Benzo(b)fluoranthene	110,000	1,000	54.1 U	54.1 U	**250**	61.4 U
Benzo(k)fluoranthene	1,100,000	1,000	59.1 U	59.1 U	**260**	67.1 U
Benzo(a)pyrene	11,000	1,000	59.8 U	59.9 U	**170 J**	67.9 U
Indeno(1,2,3-cd)pyrene	110,000	500	100 U	100 U	120 U	120 U
Dibenzo(a,h)anthracene	11,000	330	83.5 U	83.5 U	95.6 U	94.7 U
Benzo(g,h,i)perylene	NS	100,000	78.8 U	78.8 U	90.2 U	89.4 U
1,2,4,5-Tetrachlorobenzene	23,000	NS	77.9 U	78.0 U	89.2 U	88.4 U
1,4-Dioxane	530,000	100	52.0 U	52.0 U	59.6 U	59.0 U
2,3,4,6-Tetrachlorophenol	1,900,000	NS	77.7 U	77.8 U	89.0 U	88.2 U

Notes:

START V - Superfund Technical Assessment & Response Team V

TAL - Target Analyte List

SVOC - Semivolatile Organic Compound

J - Estimated value

U - Not detected

NS - Not specified

µg/kg - Micrograms per kilogram

[1]U.S. Environmental Protection Agency (EPA) Removal Management Levels (RMLs) for Residential Soil corresponding to 10^{-4} Risk Level for Carcinogens or a Hazard Quotient (HQ) of 1 for Non-Carcinogens, November 2020

[2]New York State Department of Environmental Conservation (NYSDEC) Residential Use Soil Cleanup Objectives (RUSCOs), May 2010

Bold result values are detections

Result values highlighted in yellow exceed the respective NYSDEC RUSCO