



EXCEEDANCE SUMMARY

LEGEND

- Dirt Pile
- Approximate Sample Location
- Approximate Site Parcel
- Approximate Parcel Boundary

LOCUS MAP

NOTES

1. Based on 2016 Statewide Orthophotography, Courtesy of CTECO.

Holland Hill School Playground
105 Meadowcroft Road
Fairfield, Connecticut

September 2019

Tighe&Bond
Engineers | Environmental Specialists

HOLLAND HILL ELEMENTARY SCHOOL PLAYGROUND

Summary of Analytical Data
Fairfield, Connecticut
Last Updated: 09/10/2019

Sample ID	CT RSR Criteria		US EPA	HH S100	HH S101	HH S102	HH S103
Sample Depth				0.75-1.25 ft	0.5-1 ft	1-1.5 ft	1-1.5 ft
Sample Date				9/5/19	9/5/19	9/5/19	9/5/19
Lab Sample ID	RES DEC	GB PMC		CD98471	CD98472	CD98473	CD98474
Asbestos PLM 198.1²							
% Amosite	NA	NA	NA	0.0%	0.0%	0.0%	0.0%
% Chrysotile	NA	NA	NA	0.0%	0.0%	0.0%	0.0%
% Other	NA	NA	NA	0.0%	0.0%	0.0%	0.0%
% Total Asbestos	NA	NA	1%	0.0%	0.0%	0.0%	0.0%
Total Metals 6010D							
Arsenic	10	NA	NA	2	14.2	15.5	1.81
Lead	400	NA	NA	4.96	6.34	3.37	2.19
CTETPH 8015D (mg/Kg)	500	2500	NA	<59	<56	<54	<55
PCBs SW8082A (mg/Kg)							
PCB-1016	NE	NA	NA	<0.4	<0.37	<0.36	<0.36
PCB-1221	NE	NA	NA	<0.4	<0.37	<0.36	<0.36
PCB-1232	NE	NA	NA	<0.4	<0.37	<0.36	<0.36
PCB-1242	NE	NA	NA	<0.4	<0.37	<0.36	<0.36
PCB-1248	NE	NA	NA	<0.4	<0.37	<0.36	<0.36
PCB-1254	NE	NA	NA	<0.4	<0.37	<0.36	<0.36
PCB-1260	NE	NA	NA	<0.4	<0.37	<0.36	<0.36
PCB-1262	NE	NA	NA	<0.4	<0.37	<0.36	<0.36
PCB-1268	NE	NA	NA	<0.4	<0.37	<0.36	<0.36
Total PCBs	1	NA	NA	<0.4	<0.37	<0.36	<0.36
PAHs SW8270D (mg/Kg)							
2-Methylnaphthalene	270	5.6	NA	<0.28	<0.26	<0.25	<0.25
Acenaphthene	1,000	84	NA	<0.28	<0.26	<0.25	<0.25
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Anthracene	1,000	400	NA	<0.28	<0.26	<0.25	<0.25
Benz(a)anthracene	1	1	NA	<0.28	<0.26	<0.25	<0.25
Benzo(a)pyrene	1	1	NA	<0.28	<0.26	<0.25	<0.25
Benzo(b)fluoranthene	1	1	NA	<0.28	<0.26	<0.25	<0.25
Benzo(ghi)perylene	8.4	1	NA	<0.28	<0.26	<0.25	<0.25
Benzo(k)fluoranthene	8.4	1	NA	<0.28	<0.26	<0.25	<0.25
Chrysene	84	1	NA	<0.28	<0.26	<0.25	<0.25
Dibenz(a,h)anthracene	1	1	NA	<0.28	<0.26	<0.25	<0.25
Fluoranthene	1,000	56.0	NA	<0.28	<0.26	<0.25	<0.25
Fluorene	1,000	56.0	NA	<0.28	<0.26	<0.25	<0.25
Indeno(1,2,3-cd)pyrene	1	1	NA	<0.28	<0.26	<0.25	<0.25
Naphthalene	1,000	56.0	NA	<0.28	<0.26	<0.25	<0.25
Phenanthrene	1,000	40	NA	<0.28	<0.26	<0.25	<0.25
Pyrene	1,000	40	NA	<0.28	<0.26	<0.25	<0.25
Pesticides By SW8081B (mg/Kg)							
4,4' -DDD	NE	NE	NA	<0.0016	<0.0015	<0.0014	<0.0015
4,4' -DDE	NE	NE	NA	<0.0016	<0.0015	<0.0014	<0.0015
4,4' -DDT	NE	NE	NA	<0.0016	<0.0015	<0.0014	<0.0015
Total DDT	1.8	0.02	NA	<0.0016	<0.0015	<0.0014	<0.0015
a-BHC	0.34	0.01	NA	<0.0016	<0.0015	<0.0014	<0.0015
Alachlor	7.7	0.4	NA	<0.0078	<0.0074	<0.0072	<0.0073
Aldrin	0.04	0.01	NA	<0.0016	<0.0015	<0.0014	<0.0015
b-BHC	0.34	0.01	NA	<0.0016	<0.0015	<0.0014	<0.0015
Chlordane	0.49	0.066	NA	<0.039	<0.037	<0.036	<0.036
d-BHC	0.34	0.01	NA	<0.0016	<0.0015	<0.0014	<0.0015
Dieldrin	0.038	0.007	NA	<0.0039	<0.0037	<0.0036	<0.0036
Endosulfan I	41	0.84	NA	<0.0078	<0.0074	<0.0072	<0.0073
Endosulfan II	41	0.84	NA	<0.0078	<0.0074	<0.0072	<0.0073
Endosulfan sulfate	41	0.84	NA	<0.0078	<0.0074	<0.0072	<0.0073
Endrin	20	0.4	NA	<0.0078	<0.0074	<0.0072	<0.0073
Endrin aldehyde	20	0.4	NA	<0.0078	<0.0074	<0.0072	<0.0073
Endrin ketone	20	0.4	NA	<0.0078	<0.0074	<0.0072	<0.0073
q-BHC	20	0.04	NA	<0.0016	<0.0015	<0.0014	<0.0015
Heptachlor	0.14	0.013	NA	<0.0078	<0.0074	<0.0072	<0.0073
Heptachlor epoxide	0.067	0.02	NA	<0.0078	<0.0074	<0.0072	<0.0073
Methoxychlor	340	8	NA	<0.039	<0.037	<0.036	<0.036
Toxaphene	0.56	0.6	NA	<0.16	<0.15	<0.14	<0.15

CTDEEP RSRs- Connecticut Department of Energy and Environmental Protection Remediation Standard Regulations (June 27, 2013)

US EPA - United State Environmental Protection Agency

RES DEC-Residential Direct Exposure Criteria

GB PMC- Pollutant Mobility Criteria in a GB groundwater area

NE- Not established

NA- Not Applicable

CT ETPH- Connecticut Department of Public Health Extractable Total Petroleum Hydrocarbons

PAHs- Polycyclic Aromatic Hydrocarbons

PCBs- Polychlorinated Biphenyls

< xx indicates compound was not detected. Detection limit is provided.

Boxed values indicate exceedances of RES DEC

Grey values indicate exceedances of GB PMC

²- Asbestos analysis of Bulk Materials via 40 CFR Part 763, Sub. E, App. E/NYS-DOH 198.1 (PLM) by Eastern Analytical Services, Inc.