



LEGEND

PARCEL BOUNDARY

VALIDATED RESULTS

BELOW EPA SCREENING LEVELS (4)

HISD Property

0 200 400

SCALE IN FEET



US EPA REGION 6

FIGURE 1

OFF-SITE SOIL ASSESSMENT
ZONE 1A SCREENING EXCEEDANCE
FIFTH WARD/KASHMERE GARDENS
UPRR SITE
HOUSTON, HARRIS COUNTY, TEXAS

SOURCE: OPEN STREET MAP LIGHT GRAY BASEMAP; ESRI
CLIN No.: 68HERH23F0391-0004000 Data Provided by Geosyntec

DATE 03/12/2025	PROJECT NO 26500.012.001.0004	SCALE AS SHOWN
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This page shows an example of the soil sample results from your property.

The Sample ID is required by EPA that contains the following information:
 OFFSS – soil sample type (off-site)
 000 –numerical identifier associated with address
 ‘C’ - method of soil sample collection (Composite)
 ‘0-2’, ‘2-6’, and ‘6-12’ – sample depth (inches below ground surface)
 20240605 – date of sample collection (year, month, day)
 SV – soil sample was sieved before sample analysis (as required by EPA)

The protective screening values established by EPA to which soil results are compared.

“--” means a screening value has not been established by EPA.

This column shows the EPA reviewed soil results.

TABLE 1
 Summary of Soil Sample Results - Dioxins and Furans
 Houston, Texas

Geosyntec Consultants

Parameter	Location ID Sample ID Sample Date Depth Range (inches)	OFFSS-000 OFFSS-000-0-2-C-SS-20240605-SV 6/5/2024 0-2
	EPA Residential Screening Level	
Dioxins and Furans (ng/kg)		
1,2,3,4,6,7,8-Heptachlorodibenzofuran	--	16.7
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	--	403
1,2,3,4,7,8,9-Heptachlorodibenzofuran	--	Not Detected
1,2,3,4,7,8-Hexachlorodibenzofuran	--	1.4 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	--	4.53 J
1,2,3,6,7,8-Hexachlorodibenzofuran	--	1.01 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	--	6.14
1,2,3,7,8,9-Hexachlorodibenzofuran	--	Not Detected
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	--	8.46
1,2,3,7,8-Pentachlorodibenzofuran	--	4.19 J
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	--	1.1 J
2,3,4,6,7,8-Hexachlorodibenzofuran	--	1.61 J
2,3,4,7,8-Pentachlorodibenzofuran	--	1.25 J
2,3,7,8-Tetrachlorodibenzofuran	--	1.27
2,3,7,8-Tetrachlorodibenzo-p-dioxin	4.8	Not Detected
Octachlorodibenzofuran	--	42.7
Octachlorodibenzo-p-dioxin	--	49600
Dioxin/furan TEQ (WHO 2005, ND = RL)	48	23 J

Notes:

– result detected above the EPA residential screening level

Bold - result detected above the method detection limit

Not Detected - the parameter was not detected above the method detection limit

-- no EPA residential screening level available

EPA Residential Site-Specific Screening Levels - Dioxins and Furans Toxic Equivalency (September 2023).

The last row of the table shows the upper bound toxic equivalency (TEQ) of the sample. The TEQ is calculated by multiplying the measured concentration of each parameter with a toxic equivalency factor (TEF) set by the World Health Organization (WHO) in 2005. The Dioxin/furan TEQ is calculated by adding each of the parameter-specific TEQ values together.

ng/kg - nanograms per kilogram

EPA - United States Environmental Protection Agency

J - estimated value

ND - Non-Detect

RL - Reporting Limit

TEQ - toxic equivalency

WHO - World Health Organization

The letters in this column are defined in the “Notes” below.


Shading indicates a result above the EPA residential screening value.

The “J” means the result is estimated because it was less than the laboratory instruments lowest reporting limit.

TABLE 1
Summary of Soil Sample Results - Dioxins and Furans
Atherton Elementary School, Houston, Texas

Location ID Sample ID Sample Date Depth Range (inches)		OFFSS-013 OFFSS-013-0-2-C-SS-20240607-SV 6/7/2024 0 - 2	OFFSS-013 OFFSS-013-2-6-C-SH-20240607-SV 6/7/2024 2 - 6	OFFSS-013 OFFSS-013-6-12-C-SH-20240607-SV 6/7/2024 6 - 12
Parameter	EPA Residential Screening Level			
Dioxins and Furans (ng/kg) - E1613				
1,2,3,4,6,7,8-Heptachlorodibenzofuran	--	24.3	23.2	23.4
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	--	236	233	219
1,2,3,4,7,8,9-Heptachlorodibenzofuran	--	1.08 J	1.17 J	1.22 J
1,2,3,4,7,8-Hexachlorodibenzofuran	--	0.927 J	0.915 J	Not Detected
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	--	2.44 J	2.14 J	1.77 J
1,2,3,6,7,8-Hexachlorodibenzofuran	--	Not Detected	Not Detected	Not Detected
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	--	4.49 J	4.17 J	3.92 J
1,2,3,7,8,9-Hexachlorodibenzofuran	--	Not Detected	Not Detected	Not Detected
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	--	4.89	4.06 J	3.30 J
1,2,3,7,8-Pentachlorodibenzofuran	--	1.08 J	Not Detected	Not Detected
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	--	Not Detected	Not Detected	Not Detected
2,3,4,6,7,8-Hexachlorodibenzofuran	--	1.63 J	1.33 J	0.969 J
2,3,4,7,8-Pentachlorodibenzofuran	--	Not Detected	Not Detected	Not Detected
2,3,7,8-Tetrachlorodibenzofuran	--	Not Detected	Not Detected	Not Detected
2,3,7,8-Tetrachlorodibenzo-p-dioxin	4.8	Not Detected	Not Detected	Not Detected
Octachlorodibenzofuran	--	87.0	75.7	111
Octachlorodibenzo-p-dioxin	--	27100	33300	37200
Dioxin/furan TCDD toxicity equivalent (WHO 2005, ND = RL)	48	14	15	16

Notes:

 - result detected above the EPA residential screening level

Bold - result detected above the method detection limit

-- no EPA residential screening level available

Not Detected - the parameter was not detected above the method detection limit

- result did not meet data quality criteria approved by EPA

EPA Residential Site-Specific Screening Level for Dioxins and Furans Toxic Equivalency (September 2023).

The last row of the table shows the upper bound toxic equivalency (TEQ) of the sample.

The TEQ is calculated by multiplying the measured concentration of each parameter with a toxic equivalency factor (TEF) set by the World Health Organization (WHO) in 2005. The Dioxin/furan TEQ is calculated by adding each of the parameter-specific TEQ values together.

ng/kg - nanograms per kilogram

EPA - United States Environmental Protection Agency

J - estimated value

ND - Non-Detect

RL - Reporting Limit


TEQ - toxic equivalency

WHO - World Health Organization

TABLE 1
Summary of Soil Sample Results - Dioxins and Furans
Atherton Elementary School, Houston, Texas

Location ID Sample ID Sample Date Depth Range (inches)		OFFSS-014 OFFSS-014-0-2-C-SS-20240607-SV 6/7/2024 0 - 2	OFFSS-014 OFFSS-014-2-6-C-SH-20240607-SV 6/7/2024 2 - 6	OFFSS-015 OFFSS-015-0-2-C-SS-20240607-SV 6/7/2024 0 - 2
Parameter	EPA Residential Screening Level			
Dioxins and Furans (ng/kg) - E1613				
1,2,3,4,6,7,8-Heptachlorodibenzofuran	--	28.4	32.2	60.9
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	--	233	254	307
1,2,3,4,7,8,9-Heptachlorodibenzofuran	--	1.29 J	1.44 J	2.12 J
1,2,3,4,7,8-Hexachlorodibenzofuran	--	1.19 J	1.24 J	1.28 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	--	2.90 J	2.49 J	3.08 J
1,2,3,6,7,8-Hexachlorodibenzofuran	--	Not Detected	Not Detected	1.10 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	--	5.27	5.49	6.61
1,2,3,7,8,9-Hexachlorodibenzofuran	--	Not Detected	Not Detected	Not Detected
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	--	5.20	4.74	6.00
1,2,3,7,8-Pentachlorodibenzofuran	--	0.646 J	Not Detected	Not Detected
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	--	Not Detected	Not Detected	Not Detected
2,3,4,6,7,8-Hexachlorodibenzofuran	--	1.58 J	1.34 J	1.48 J
2,3,4,7,8-Pentachlorodibenzofuran	--	Not Detected	Not Detected	1.22 J
2,3,7,8-Tetrachlorodibenzofuran	--	0.260 J	Not Detected	Not Detected
2,3,7,8-Tetrachlorodibenzo-p-dioxin	4.8	Not Detected	Not Detected	Not Detected
Octachlorodibenzofuran	--	85.5	89.3	208
Octachlorodibenzo-p-dioxin	--	22800	34100	39600
Dioxin/furan TCDD toxicity equivalent (WHO 2005, ND = RL)	48	13	16	19

Notes:

 - result detected above the EPA residential screening level

Bold - result detected above the method detection limit

-- no EPA residential screening level available

Not Detected - the parameter was not detected above the method detection limit

- result did not meet data quality criteria approved by EPA

EPA Residential Site-Specific Screening Level for Dioxins and Furans Toxic Equivalency (September 2023).

The last row of the table shows the upper bound toxic equivalency (TEQ) of the sample.

The TEQ is calculated by multiplying the measured concentration of each parameter with a toxic equivalency factor (TEF) set by the World Health Organization (WHO) in 2005. The Dioxin/furan TEQ is calculated by adding each of the parameter-specific TEQ values together.

ng/kg - nanograms per kilogram

EPA - United States Environmental Protection Agency

J - estimated value

ND - Non-Detect

RL - Reporting Limit


TEQ - toxic equivalency

WHO - World Health Organization

TABLE 1
Summary of Soil Sample Results - Dioxins and Furans
Atherton Elementary School, Houston, Texas

Location ID Sample ID Sample Date Depth Range (inches)		OFFSS-015 OFFSS-015-2-6-C-SH-20240607-SV 6/7/2024 2 - 6	OFFSS-056 OFFSS-056-0-2-C-SS-20240626-SV 6/26/2024 0 - 2	OFFSS-056 OFFSS-056-2-6-C-SH-20240626-SV 6/26/2024 2 - 6
Parameter	EPA Residential Screening Level			
Dioxins and Furans (ng/kg) - E1613				
1,2,3,4,6,7,8-Heptachlorodibenzofuran	--	109	27.0 J	35.4
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	--	390	222	276
1,2,3,4,7,8,9-Heptachlorodibenzofuran	--	3.41 J	1.27 J	1.45 J
1,2,3,4,7,8-Hexachlorodibenzofuran	--	2.01 J	1.00 J	0.958 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	--	3.48 J	2.59 J	3.05 J
1,2,3,6,7,8-Hexachlorodibenzofuran	--	1.98 J	1.32 J	1.57 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	--	9.00	5.06	6.44
1,2,3,7,8,9-Hexachlorodibenzofuran	--	Not Detected	Not Detected	Not Detected
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	--	7.32	4.69 J	5.85
1,2,3,7,8-Pentachlorodibenzofuran	--	0.688 J	Not Detected	Not Detected
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	--	Not Detected	0.919 J	0.967 J
2,3,4,6,7,8-Hexachlorodibenzofuran	--	2.68 J	1.67 J	1.74 J
2,3,4,7,8-Pentachlorodibenzofuran	--	1.20 J	Not Detected	Not Detected
2,3,7,8-Tetrachlorodibenzofuran	--	Not Detected	0.267 J	0.296 J
2,3,7,8-Tetrachlorodibenzo-p-dioxin	4.8	Not Detected	Not Detected	Not Detected
Octachlorodibenzofuran	--	374	110	149
Octachlorodibenzo-p-dioxin	--	46900	31100	41800
Dioxin/furan TCDD toxicity equivalent (WHO 2005, ND = RL)	48	23	15 J	19

Notes:

 - result detected above the EPA residential screening level

Bold - result detected above the method detection limit

-- no EPA residential screening level available

Not Detected - the parameter was not detected above the method detection limit

- result did not meet data quality criteria approved by EPA

EPA Residential Site-Specific Screening Level for Dioxins and Furans Toxic Equivalency (September 2023).

The last row of the table shows the upper bound toxic equivalency (TEQ) of the sample.

The TEQ is calculated by multiplying the measured concentration of each parameter with a toxic equivalency factor (TEF) set by the World Health Organization (WHO) in 2005. The Dioxin/furan TEQ is calculated by adding each of the parameter-specific TEQ values together.

ng/kg - nanograms per kilogram

EPA - United States Environmental Protection Agency

J - estimated value

ND - Non-Detect

RL - Reporting Limit

TEQ - toxic equivalency

WHO - World Health Organization

TABLE 2
Summary of Soil Sample Results - Polycyclic Aromatic Hydrocarbons and Semi-Volatile Organic Compounds
Atherton Elementary School, Houston, Texas

Location ID Sample ID Sample Date Depth Range (inches)		OFFSS-013 OFFSS-013-0-2-C-SS-20240607 6/7/2024 0 - 2	OFFSS-013 OFFSS-013-2-6-C-SH-20240607 6/7/2024 2 - 6
Parameter	EPA Residential Screening Level		
Polycyclic Aromatic Hydrocarbons (mg/kg) - SW8270ESIM			
1-Methylnaphthalene	18	Not Detected	Not Detected
2-Chloronaphthalene	480	Not Detected	Not Detected
2-Methylnaphthalene	24	Not Detected	Not Detected
Acenaphthene	360	Not Detected	Not Detected
Acenaphthylene	--	Not Detected	0.00585 J
Anthracene	1800	Not Detected	0.00637 J
Benzo(a)anthracene	1.1	0.00997	0.0676
Benzo(a)pyrene	0.11	0.0124	0.0544
Benzo(b)fluoranthene	1.1	0.0182	0.0923
Benzo(g,h,i)perylene	--	0.0112	0.0466
Benzo(k)fluoranthene	11	0.00628 J	0.0320
Chrysene	110	0.00962	0.0543
Dibenz(a,h)anthracene	0.11	Not Detected	0.00898
Fluoranthene	240	0.0201	0.0902
Fluorene	240	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1	0.00952	0.0429
Naphthalene	2	Not Detected	Not Detected
Phenanthrene	--	0.00757 J	0.0209
Pyrene	180	0.0182	0.0750
Semi-Volatile Organic Compounds (mg/kg) - SW8270E			
1,2,4-Trichlorobenzene	5.8	Not Detected	Not Detected
1,2-Dichlorobenzene	180	Not Detected	Not Detected
1,3-Dichlorobenzene	--	Not Detected	Not Detected
1,4-Dichlorobenzene	2.6	Not Detected	Not Detected
2,4,6-Trichlorophenol	6.3	Not Detected	Not Detected
2,4-Dichlorophenol	19	Not Detected	Not Detected
2,4-Dimethylphenol	130	Not Detected	Not Detected
2,4-Dinitrophenol	13	Not Detected	Not Detected
2,4-Dinitrotoluene	1.7	Not Detected	Not Detected
2,6-Dinitrotoluene	0.36	Not Detected	Not Detected
2-Chloronaphthalene	480	Not Detected	Not Detected
2-Chlorophenol	39	Not Detected	Not Detected
2-Nitrophenol	--	Not Detected	Not Detected
3,3'-Dichlorobenzidine	1.20	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	0.51	Not Detected	Not Detected
4-Bromophenyl phenyl ether	--	Not Detected	Not Detected
4-Chloro-3-methylphenol	630	Not Detected	Not Detected
4-Chlorophenyl phenyl ether	--	Not Detected	Not Detected
4-Nitrophenol	--	Not Detected	Not Detected
Acenaphthene	360	Not Detected	Not Detected
Acenaphthylene	--	Not Detected	Not Detected
Anthracene	1800	Not Detected	Not Detected
Benzdine	0.00053	Not Detected	Not Detected
Benzo(a)anthracene	1.1	0.0233 J	0.0277 J
Benzo(a)pyrene	0.11	0.0309 J	0.0340 J
Benzo(b)fluoranthene	1.1	0.0520 J	0.0515 J
Benzo(g,h,i)perylene	--	0.0194 J	0.0248 J
Benzo(k)fluoranthene	11	0.0152 J	0.0166 J
Benzyl butyl phthalate	290	Not Detected	Not Detected
Bis(2-Chloroethoxy) methane	19	Not Detected	Not Detected
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	0.23	Not Detected	Not Detected
Bis(2-Chloroisopropyl) ether	310	Not Detected	Not Detected
Bis(2-Ethylhexyl) phthalate	39	Not Detected	Not Detected
Chrysene	110	0.0230 J	0.0226 J
Dibenz(a,h)anthracene	0.11	Not Detected	Not Detected
Diethyl phthalate	5100	Not Detected	Not Detected
Dimethyl phthalate	--	Not Detected	Not Detected
di-n-Butyl phthalate	630	Not Detected	Not Detected
di-n-Octylphthalate	63	Not Detected	Not Detected
Fluoranthene	240	0.0449 J	0.0486 J
Fluorene	240	Not Detected	Not Detected
Hexachlorobenzene	0.078	Not Detected	Not Detected
Hexachlorobutadiene	1.2	Not Detected	Not Detected
Hexachlorocyclopentadiene	0.18	Not Detected	Not Detected
Hexachloroethane	1.8	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1	Not Detected	Not Detected
Isophorone	570	Not Detected	Not Detected
Naphthalene	2	Not Detected	Not Detected
Nitrobenzene	5.1	Not Detected	Not Detected
N-Nitrosodimethylamine	0.002	Not Detected	Not Detected
N-Nitrosodi-n-propylamine	0.078	Not Detected	Not Detected
N-Nitrosodiphenylamine	110	Not Detected	Not Detected
Pentachlorophenol	1	Not Detected	Not Detected
Phenanthrene	--	0.0170 J	0.0196 J
Phenol	1900	Not Detected	Not Detected
Pyrene	180	0.0399 J	0.0451 J


Notes:
 - result detected above the EPA residential screening level
Bold - result detected above the method detection limit
-- no EPA residential screening level available
Not Detected - the parameter was not detected above the method detection limit
- result did not meet data quality criteria approved by EPA
Residential Regional Screening Level Concentrations obtained from "U.S. EPA Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=0.1) November 2024", available at <https://semspub.epa.gov/work/HQ/405271.pdf> and accessed January 2025.
EPA - United States Environmental Protection Agency
mg/kg - milligrams per kilogram
HQ - hazard quotient
J - estimated value
TR - target risk

TABLE 2
Summary of Soil Sample Results - Polycyclic Aromatic Hydrocarbons and Semi-Volatile Organic Compounds
Atherton Elementary School, Houston, Texas

Location ID Sample ID Sample Date Depth Range (inches)		OFFSS-013 OFFSS-013-6-12-C-SH-20240607 6/7/2024 6 - 12	OFFSS-014 OFFSS-014-0-2-C-SS-20240607 6/7/2024 0 - 2
Parameter	EPA Residential Screening Level		
Polycyclic Aromatic Hydrocarbons (mg/kg) - SW8270ESIM			
1-Methylnaphthalene	18	Not Detected	Not Detected
2-Chloronaphthalene	480	Not Detected	Not Detected
2-Methylnaphthalene	24	Not Detected	Not Detected
Acenaphthene	360	Not Detected	Not Detected
Acenaphthylene	--	Not Detected	Not Detected
Anthracene	1800	Not Detected	Not Detected
Benzo(a)anthracene	1.1	0.00443 J	0.0242
Benzo(a)pyrene	0.11	0.00486 J	0.0285
Benzo(b)fluoranthene	1.1	0.00694 J	0.0429
Benzo(g,h,i)perylene	--	0.00393 J	0.0256
Benzo(k)fluoranthene	11	0.00253 J	0.0147
Chrysene	110	0.00378 J	0.0259
Dibenz(a,h)anthracene	0.11	Not Detected	0.00452 J
Fluoranthene	240	0.00870	0.0509
Fluorene	240	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1	0.00331 J	0.0220
Naphthalene	2	Not Detected	Not Detected
Phenanthrene	--	0.00423 J	0.0180
Pyrene	180	0.00858	0.0435
Semi-Volatile Organic Compounds (mg/kg) - SW8270E			
1,2,4-Trichlorobenzene	5.8	Not Detected	Not Detected
1,2-Dichlorobenzene	180	Not Detected	Not Detected
1,3-Dichlorobenzene	--	Not Detected	Not Detected
1,4-Dichlorobenzene	2.6	Not Detected	Not Detected
2,4,6-Trichlorophenol	6.3	Not Detected	Not Detected
2,4-Dichlorophenol	19	Not Detected	Not Detected
2,4-Dimethylphenol	130	Not Detected	Not Detected
2,4-Dinitrophenol	13	Not Detected	Not Detected
2,4-Dinitrotoluene	1.7	Not Detected	Not Detected
2,6-Dinitrotoluene	0.36	Not Detected	Not Detected
2-Chloronaphthalene	480	Not Detected	Not Detected
2-Chlorophenol	39	Not Detected	Not Detected
2-Nitrophenol	--	Not Detected	Not Detected
3,3'-Dichlorobenzidine	1.20	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	0.51	Not Detected	Not Detected
4-Bromophenyl phenyl ether	--	Not Detected	Not Detected
4-Chloro-3-methylphenol	630	Not Detected	Not Detected
4-Chlorophenyl phenyl ether	--	Not Detected	Not Detected
4-Nitrophenol	--	Not Detected	Not Detected
Acenaphthene	360	Not Detected	Not Detected
Acenaphthylene	--	Not Detected	Not Detected
Anthracene	1800	Not Detected	Not Detected
Benzdine	0.00053	Not Detected	Not Detected
Benzo(a)anthracene	1.1	0.00935 J	0.0207 J
Benzo(a)pyrene	0.11	0.00836 J	0.0259 J
Benzo(b)fluoranthene	1.1	0.0117 J	0.0401 J
Benzo(g,h,i)perylene	--	Not Detected	0.0137 J
Benzo(k)fluoranthene	11	Not Detected	0.0132 J
Benzyl butyl phthalate	290	Not Detected	Not Detected
Bis(2-Chloroethoxy) methane	19	Not Detected	Not Detected
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	0.23	Not Detected	Not Detected
Bis(2-Chloroisopropyl) ether	310	Not Detected	Not Detected
Bis(2-Ethylhexyl) phthalate	39	Not Detected	Not Detected
Chrysene	110	0.00792 J	0.0220 J
Dibenz(a,h)anthracene	0.11	Not Detected	Not Detected
Diethyl phthalate	5100	Not Detected	Not Detected
Dimethyl phthalate	--	Not Detected	Not Detected
di-n-Butyl phthalate	630	Not Detected	Not Detected
di-n-Octylphthalate	63	Not Detected	Not Detected
Fluoranthene	240	0.0187 J	0.0359 J
Fluorene	240	Not Detected	Not Detected
Hexachlorobenzene	0.078	Not Detected	Not Detected
Hexachlorobutadiene	1.2	Not Detected	Not Detected
Hexachlorocyclopentadiene	0.18	Not Detected	Not Detected
Hexachloroethane	1.8	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1	Not Detected	Not Detected
Isophorone	570	Not Detected	Not Detected
Naphthalene	2	Not Detected	Not Detected
Nitrobenzene	5.1	Not Detected	Not Detected
N-Nitrosodimethylamine	0.002	Not Detected	Not Detected
N-Nitrosodi-n-propylamine	0.078	Not Detected	Not Detected
N-Nitrosodiphenylamine	110	Not Detected	Not Detected
Pentachlorophenol	1	Not Detected	Not Detected
Phenanthrene	--	0.0112 J	0.0139 J
Phenol	1900	Not Detected	Not Detected
Pyrene	180	0.0165 J	0.0362 J


Notes:
 - result detected above the EPA residential screening level
Bold - result detected above the method detection limit
-- no EPA residential screening level available
Not Detected - the parameter was not detected above the method detection limit
- result did not meet data quality criteria approved by EPA
Residential Regional Screening Level Concentrations obtained from "U.S. EPA Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=0.1) November 2024", available at <https://semspub.epa.gov/work/HQ/405271.pdf> and accessed January 2025.
EPA - United States Environmental Protection Agency
mg/kg - milligrams per kilogram
HQ - hazard quotient
J - estimated value
TR - target risk

TABLE 2
Summary of Soil Sample Results - Polycyclic Aromatic Hydrocarbons and Semi-Volatile Organic Compounds
Atherton Elementary School, Houston, Texas

Location ID Sample ID Sample Date Depth Range (inches)		OFFSS-014 OFFSS-014-2-6-C-SH-20240607 6/7/2024 2 - 6	OFFSS-015 OFFSS-015-0-2-C-SS-20240626 6/26/2024 0 - 2
Parameter	EPA Residential Screening Level		
Polycyclic Aromatic Hydrocarbons (mg/kg) - SW8270ESIM			
1-Methylnaphthalene	18	Not Detected	0.00922 J
2-Chloronaphthalene	480	Not Detected	Not Detected
2-Methylnaphthalene	24	Not Detected	0.0249
Acenaphthene	360	Not Detected	0.00250 J
Acenaphthylene	--	Not Detected	0.00436 J
Anthracene	1800	0.00412 J	0.00842
Benzo(a)anthracene	1.1	0.0271	0.0574
Benzo(a)pyrene	0.11	0.0302	0.0613
Benzo(b)fluoranthene	1.1	0.0439	0.0767
Benzo(g,h,i)perylene	--	0.0246	0.0469
Benzo(k)fluoranthene	11	0.0156	0.0258
Chrysene	110	0.0268	0.0503
Dibenz(a,h)anthracene	0.11	0.00406 J	0.00993
Fluoranthene	240	0.0610	0.117
Fluorene	240	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1	0.0221	0.0475
Naphthalene	2	Not Detected	0.0200 J
Phenanthrene	--	0.0219	0.0425
Pyrene	180	0.0515	0.0898
Semi-Volatile Organic Compounds (mg/kg) - SW8270E			
1,2,4-Trichlorobenzene	5.8	Not Detected	Not Detected
1,2-Dichlorobenzene	180	Not Detected	Not Detected
1,3-Dichlorobenzene	--	Not Detected	Not Detected
1,4-Dichlorobenzene	2.6	Not Detected	Not Detected
2,4,6-Trichlorophenol	6.3	Not Detected	Not Detected
2,4-Dichlorophenol	19	Not Detected	Not Detected
2,4-Dimethylphenol	130	Not Detected	Not Detected
2,4-Dinitrophenol	13	Not Detected	Not Detected
2,4-Dinitrotoluene	1.7	Not Detected	Not Detected
2,6-Dinitrotoluene	0.36	Not Detected	Not Detected
2-Chloronaphthalene	480	Not Detected	Not Detected
2-Chlorophenol	39	Not Detected	Not Detected
2-Nitrophenol	--	Not Detected	Not Detected
3,3'-Dichlorobenzidine	1.20	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	0.51	Not Detected	Not Detected
4-Bromophenyl phenyl ether	--	Not Detected	Not Detected
4-Chloro-3-methylphenol	630	Not Detected	Not Detected
4-Chlorophenyl phenyl ether	--	Not Detected	Not Detected
4-Nitrophenol	--	Not Detected	Not Detected
Acenaphthene	360	Not Detected	Not Detected
Acenaphthylene	--	Not Detected	Not Detected
Anthracene	1800	Not Detected	0.00988 J
Benzdine	0.00053	Not Detected	Not Detected
Benzo(a)anthracene	1.1	0.0259 J	0.0469
Benzo(a)pyrene	0.11	0.0293 J	0.0504
Benzo(b)fluoranthene	1.1	0.0401	0.0712
Benzo(g,h,i)perylene	--	0.0188 J	0.0336 J
Benzo(k)fluoranthene	11	0.0139 J	0.0225 J
Benzyl butyl phthalate	290	Not Detected	Not Detected
Bis(2-Chloroethoxy) methane	19	Not Detected	Not Detected
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	0.23	Not Detected	Not Detected
Bis(2-Chloroisopropyl) ether	310	Not Detected	-
Bis(2-Ethylhexyl) phthalate	39	Not Detected	Not Detected
Chrysene	110	0.0253 J	0.0413
Dibenz(a,h)anthracene	0.11	Not Detected	Not Detected
Diethyl phthalate	5100	Not Detected	Not Detected
Dimethyl phthalate	--	Not Detected	Not Detected
di-n-Butyl phthalate	630	Not Detected	0.0135 J
di-n-Octylphthalate	63	Not Detected	Not Detected
Fluoranthene	240	0.0449	0.0793
Fluorene	240	Not Detected	Not Detected
Hexachlorobenzene	0.078	Not Detected	Not Detected
Hexachlorobutadiene	1.2	Not Detected	Not Detected
Hexachlorocyclopentadiene	0.18	Not Detected	Not Detected
Hexachloroethane	1.8	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1	0.0173 J	0.0308 J
Isophorone	570	Not Detected	Not Detected
Naphthalene	2	Not Detected	Not Detected
Nitrobenzene	5.1	Not Detected	Not Detected
N-Nitrosodimethylamine	0.002	Not Detected	Not Detected
N-Nitrosodi-n-propylamine	0.078	Not Detected	Not Detected
N-Nitrosodiphenylamine	110	Not Detected	Not Detected
Pentachlorophenol	1	Not Detected	Not Detected
Phenanthrene	--	0.0251 J	0.0386
Phenol	1900	Not Detected	Not Detected
Pyrene	180	0.0441	0.0658

Notes:

- result detected above the EPA residential screening level

Bold - result detected above the method detection limit

-- no EPA residential screening level available

Not Detected - the parameter was not detected above the method detection limit

- result did not meet data quality criteria approved by EPA

Residential Regional Screening Level Concentrations obtained from "U.S. EPA Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=0.1) November 2024", available at <https://semspub.epa.gov/work/HQ/405271.pdf> and accessed January 2025.

EPA - United States Environmental Protection Agency

mg/kg - milligrams per kilogram

HQ - hazard quotient

J - estimated value

TR - target risk

TABLE 2
Summary of Soil Sample Results - Polycyclic Aromatic Hydrocarbons and Semi-Volatile Organic Compounds
Atherton Elementary School, Houston, Texas

Location ID Sample ID Sample Date Depth Range (inches)		OFFSS-015 OFFSS-015-2-6-C-SH-20240607 6/7/2024 2 - 6	OFFSS-056 OFFSS-056-0-2-C-SS-20240626 6/26/2024 0 - 2
Parameter	EPA Residential Screening Level		
Polycyclic Aromatic Hydrocarbons (mg/kg) - SW8270ESIM			
1-Methylnaphthalene	18	Not Detected	Not Detected
2-Chloronaphthalene	480	Not Detected	Not Detected
2-Methylnaphthalene	24	Not Detected	Not Detected
Acenaphthene	360	Not Detected	0.00972
Acenaphthylene	--	Not Detected	0.00396 J
Anthracene	1800	Not Detected	0.0205
Benzo(a)anthracene	1.1	0.0165	0.0890
Benzo(a)pyrene	0.11	0.0191	0.0808
Benzo(b)fluoranthene	1.1	0.0285	0.113
Benzo(g,h,i)perylene	--	0.0173	0.0566
Benzo(k)fluoranthene	11	0.0121	0.0349
Chrysene	110	0.0195	0.0781
Dibenz(a,h)anthracene	0.11	0.00309 J	0.0133
Fluoranthene	240	0.0350	0.191
Fluorene	240	Not Detected	0.00892
Indeno(1,2,3-c,d)pyrene	1.1	0.0156	0.0572
Naphthalene	2	Not Detected	Not Detected
Phenanthrene	--	0.0130	0.0997
Pyrene	180	0.0301	0.134
Semi-Volatile Organic Compounds (mg/kg) - SW8270E			
1,2,4-Trichlorobenzene	5.8	Not Detected	Not Detected
1,2-Dichlorobenzene	180	Not Detected	-
1,3-Dichlorobenzene	--	Not Detected	-
1,4-Dichlorobenzene	2.6	Not Detected	-
2,4,6-Trichlorophenol	6.3	Not Detected	Not Detected
2,4-Dichlorophenol	19	Not Detected	Not Detected
2,4-Dimethylphenol	130	Not Detected	Not Detected
2,4-Dinitrophenol	13	Not Detected	Not Detected
2,4-Dinitrotoluene	1.7	Not Detected	Not Detected
2,6-Dinitrotoluene	0.36	Not Detected	Not Detected
2-Chloronaphthalene	480	Not Detected	Not Detected
2-Chlorophenol	39	Not Detected	-
2-Nitrophenol	--	Not Detected	Not Detected
3,3'-Dichlorobenzidine	1.20	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	0.51	Not Detected	Not Detected
4-Bromophenyl phenyl ether	--	Not Detected	Not Detected
4-Chloro-3-methylphenol	630	Not Detected	Not Detected
4-Chlorophenyl phenyl ether	--	Not Detected	Not Detected
4-Nitrophenol	--	Not Detected	Not Detected
Acenaphthene	360	Not Detected	0.0117 J
Acenaphthylene	--	Not Detected	Not Detected
Anthracene	1800	Not Detected	0.0296 J
Benzdine	0.00053	Not Detected	Not Detected
Benzo(a)anthracene	1.1	0.0222 J	0.111
Benzo(a)pyrene	0.11	0.0279 J	0.111
Benzo(b)fluoranthene	1.1	0.0397 J	0.145
Benzo(g,h,i)perylene	--	0.0170 J	0.0720
Benzo(k)fluoranthene	11	0.0140 J	0.0524
Benzyl butyl phthalate	290	Not Detected	Not Detected
Bis(2-Chloroethoxy) methane	19	Not Detected	Not Detected
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	0.23	Not Detected	-
Bis(2-Chloroisopropyl) ether	310	Not Detected	-
Bis(2-Ethylhexyl) phthalate	39	0.107 J	Not Detected
Chrysene	110	0.0211 J	0.0843
Dibenz(a,h)anthracene	0.11	Not Detected	0.0180 J
Diethyl phthalate	5100	Not Detected	Not Detected
Dimethyl phthalate	--	Not Detected	Not Detected
di-n-Butyl phthalate	630	Not Detected	Not Detected
di-n-Octylphthalate	63	Not Detected	Not Detected
Fluoranthene	240	0.0373 J	0.202
Fluorene	240	Not Detected	0.0114 J
Hexachlorobenzene	0.078	Not Detected	Not Detected
Hexachlorobutadiene	1.2	Not Detected	Not Detected
Hexachlorocyclopentadiene	0.18	Not Detected	Not Detected
Hexachloroethane	1.8	Not Detected	-
Indeno(1,2,3-c,d)pyrene	1.1	0.0172 J	0.0665
Isophorone	570	Not Detected	Not Detected
Naphthalene	2	Not Detected	Not Detected
Nitrobenzene	5.1	Not Detected	Not Detected
N-Nitrosodimethylamine	0.002	Not Detected	-
N-Nitrosodi-n-propylamine	0.078	Not Detected	-
N-Nitrosodiphenylamine	110	Not Detected	Not Detected
Pentachlorophenol	1	Not Detected	Not Detected
Phenanthrene	--	0.0139 J	0.119
Phenol	1900	Not Detected	-
Pyrene	180	0.0392 J	0.162


Notes:
 - result detected above the EPA residential screening level
Bold - result detected above the method detection limit
-- no EPA residential screening level available
Not Detected - the parameter was not detected above the method detection limit
- result did not meet data quality criteria approved by EPA
Residential Regional Screening Level Concentrations obtained from "U.S. EPA Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=0.1) November 2024", available at <https://semspub.epa.gov/work/HQ/405271.pdf> and accessed January 2025.
EPA - United States Environmental Protection Agency
mg/kg - milligrams per kilogram
HQ - hazard quotient
J - estimated value
TR - target risk

TABLE 2
Summary of Soil Sample Results - Polycyclic Aromatic Hydrocarbons and Semi-Volatile Organic Compounds
Atherton Elementary School, Houston, Texas

Location ID Sample ID Sample Date Depth Range (inches)		OFFSS-056 OFFSS-056-0-2-C-SS-20250215 2/15/2025 0 - 2	OFFSS-056 OFFSS-056-2-6-C-SH-20250215 2/15/2025 2 - 6
Parameter	EPA Residential Screening Level		
Polycyclic Aromatic Hydrocarbons (mg/kg) - SW8270ESIM			
1-Methylnaphthalene	18	Not Detected	Not Detected
2-Chloronaphthalene	480	Not Detected	Not Detected
2-Methylnaphthalene	24	Not Detected	Not Detected
Acenaphthene	360	0.0287	Not Detected
Acenaphthylene	--	Not Detected	Not Detected
Anthracene	1800	0.0586	Not Detected
Benzo(a)anthracene	1.1	0.0812	0.00424 J
Benzo(a)pyrene	0.11	0.0568	0.00391 J
Benzo(b)fluoranthene	1.1	0.0745	0.00641 J
Benzo(g,h,i)perylene	--	0.0342	0.00399 J
Benzo(k)fluoranthene	11	0.0229	0.00270 J
Chrysene	110	0.0601	0.00411 J
Dibenz(a,h)anthracene	0.11	0.00867	Not Detected
Fluoranthene	240	0.206	0.00754
Fluorene	240	0.0298	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1	0.0392	0.00221 J
Naphthalene	2	Not Detected	Not Detected
Phenanthrene	--	0.184	0.00378 J
Pyrene	180	0.134	0.00752
Semi-Volatile Organic Compounds (mg/kg) - SW8270E			
1,2,4-Trichlorobenzene	5.8	Not Detected	Not Detected
1,2-Dichlorobenzene	180	Not Detected	Not Detected
1,3-Dichlorobenzene	--	Not Detected	Not Detected
1,4-Dichlorobenzene	2.6	Not Detected	Not Detected
2,4,6-Trichlorophenol	6.3	Not Detected	Not Detected
2,4-Dichlorophenol	19	Not Detected	Not Detected
2,4-Dimethylphenol	130	Not Detected	Not Detected
2,4-Dinitrophenol	13	Not Detected	Not Detected
2,4-Dinitrotoluene	1.7	Not Detected	Not Detected
2,6-Dinitrotoluene	0.36	Not Detected	Not Detected
2-Chloronaphthalene	480	Not Detected	Not Detected
2-Chlorophenol	39	Not Detected	Not Detected
2-Nitrophenol	--	Not Detected	Not Detected
3,3'-Dichlorobenzidine	1.20	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	0.51	Not Detected	Not Detected
4-Bromophenyl phenyl ether	--	Not Detected	Not Detected
4-Chloro-3-methylphenol	630	Not Detected	Not Detected
4-Chlorophenyl phenyl ether	--	Not Detected	Not Detected
4-Nitrophenol	--	Not Detected	Not Detected
Acenaphthene	360	0.0203 J	Not Detected
Acenaphthylene	--	Not Detected	Not Detected
Anthracene	1800	0.0416 J	Not Detected
Benzidine	0.00053	Not Detected	Not Detected
Benzo(a)anthracene	1.1	0.0953 J	0.0186 J
Benzo(a)pyrene	0.11	0.0881 J	0.0216 J
Benzo(b)fluoranthene	1.1	0.125 J	0.0294 J
Benzo(g,h,i)perylene	--	0.0564 J	0.0187 J
Benzo(k)fluoranthene	11	0.0391 J	0.0109 J
Benzyl butyl phthalate	290	Not Detected	Not Detected
Bis(2-Chloroethoxy) methane	19	Not Detected	Not Detected
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	0.23	Not Detected	Not Detected
Bis(2-Chloroisopropyl) ether	310	Not Detected	Not Detected
Bis(2-Ethylhexyl) phthalate	39	Not Detected	Not Detected
Chrysene	110	0.0797 J	0.0229 J
Dibenz(a,h)anthracene	0.11	Not Detected	Not Detected
Diethyl phthalate	5100	Not Detected	Not Detected
Dimethyl phthalate	--	Not Detected	Not Detected
di-n-Butyl phthalate	630	Not Detected	Not Detected
di-n-Octylphthalate	63	Not Detected	Not Detected
Fluoranthene	240	0.220 J	0.0408 J
Fluorene	240	0.0225 J	Not Detected
Hexachlorobenzene	0.078	Not Detected	Not Detected
Hexachlorobutadiene	1.2	Not Detected	Not Detected
Hexachlorocyclopentadiene	0.18	Not Detected	Not Detected
Hexachloroethane	1.8	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1	0.0623 J	0.0176 J
Isophorone	570	Not Detected	Not Detected
Naphthalene	2	Not Detected	Not Detected
Nitrobenzene	5.1	Not Detected	Not Detected
N-Nitrosodimethylamine	0.002	Not Detected	Not Detected
N-Nitrosodi-n-propylamine	0.078	Not Detected	Not Detected
N-Nitrosodiphenylamine	110	Not Detected	Not Detected
Pentachlorophenol	1	Not Detected	Not Detected
Phenanthrene	--	0.164 J	0.0220 J
Phenol	1900	Not Detected	Not Detected
Pyrene	180	0.166 J	0.0347 J

Notes:

- result detected above the EPA residential screening level

Bold - result detected above the method detection limit

-- no EPA residential screening level available

Not Detected - the parameter was not detected above the method detection limit

- result did not meet data quality criteria approved by EPA

Residential Regional Screening Level Concentrations obtained from "U.S. EPA Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=0.1) November 2024", available at <https://semspub.epa.gov/work/HQ/405271.pdf> and accessed January 2025.

EPA - United States Environmental Protection Agency

mg/kg - milligrams per kilogram

HQ - hazard quotient


J - estimated value

TR - target risk

TABLE 3
Summary of Soil Sample Results - Volatile Organic Compounds
Atherton Elementary School, Houston, Texas

Location ID Sample ID Sample Date Depth Range (inches)		OFFSS-013 OFFSS-013-2-6-D-SH-20240607 6/7/2024 2 - 6	OFFSS-013 OFFSS-013-6-12-D-SH-20240607 6/7/2024 6 - 12
Parameter	EPA Residential Screening Level		
Volatile Organic Compounds (mg/kg)			
1,1,1,2-Tetrachloroethane	2	Not Detected	Not Detected
1,1,1-Trichloroethane (TCA)	810	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.6	Not Detected	Not Detected
1,1,2-Trichloro-1,2,2-trifluoroethane	670	Not Detected	Not Detected
1,1,2-Trichloroethane	0.15	Not Detected	Not Detected
1,1-Dichloroethane	3.6	Not Detected	Not Detected
1,1-Dichloroethene	23	Not Detected	Not Detected
1,1-Dichloropropene	--	Not Detected	Not Detected
1,2,3-Trichlorobenzene	6.3	Not Detected	Not Detected
1,2,3-Trichloropropane	0.0051	Not Detected	Not Detected
1,2,3-Trimethylbenzene	34	Not Detected	Not Detected
1,2,4-Trichlorobenzene	5.8	Not Detected	Not Detected
1,2,4-Trimethylbenzene	30	Not Detected	Not Detected
1,2-Dibromo-3-chloropropane	0.0053	Not Detected	Not Detected
1,2-Dibromoethane (Ethylene Dibromide)	0.036	Not Detected	Not Detected
1,2-Dichlorobenzene	180	Not Detected	Not Detected
1,2-Dichloroethane	0.46	Not Detected	Not Detected
1,2-Dichloropropane	1.6	Not Detected	Not Detected
1,3,5-Trimethylbenzene (Mesitylene)	27	Not Detected	Not Detected
1,3-Dichlorobenzene	--	Not Detected	Not Detected
1,3-Dichloropropane	160	Not Detected	Not Detected
1,4-Dichlorobenzene	2.6	Not Detected	Not Detected
2,2-Dichloropropane	--	Not Detected	Not Detected
2-Chlorotoluene	160	Not Detected	Not Detected
4-Chlorotoluene	160	Not Detected	Not Detected
Acetone	7000	Not Detected	Not Detected
Acrylonitrile	0.25	Not Detected	Not Detected
Benzene	1.2	Not Detected	Not Detected
Bromobenzene	29	Not Detected	Not Detected
Bromodichloromethane	0.29	Not Detected	Not Detected
Bromoform	19	Not Detected	Not Detected
Bromomethane	0.68	Not Detected	Not Detected
Carbon Tetrachloride	0.65	Not Detected	Not Detected
Chlorobenzene	28	Not Detected	Not Detected
Chloroethane	540	Not Detected	Not Detected
Chloroform	0.32	Not Detected	Not Detected
Chloromethane	11	Not Detected	Not Detected
cis-1,2-Dichloroethylene	6.3	Not Detected	Not Detected
cis-1,3-Dichloropropene	1.8	Not Detected	Not Detected
Cymene	--	Not Detected	0.00401 J
Dibromochloromethane	8.3	Not Detected	Not Detected
Dibromomethane	2.4	Not Detected	Not Detected
Dichlorodifluoromethane	8.7	Not Detected	Not Detected
Ethylbenzene	5.8	Not Detected	Not Detected
Hexachlorobutadiene	1.2	Not Detected	Not Detected
Isopropyl Ether	220	Not Detected	Not Detected
Isopropylbenzene (Cumene)	190	Not Detected	Not Detected
Methyl Ethyl Ketone (2-Butanone)	2700	Not Detected	Not Detected
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	3300	Not Detected	Not Detected
Methylene chloride	35	Not Detected	Not Detected
Naphthalene	2	Not Detected	Not Detected
n-Butylbenzene	390	Not Detected	Not Detected
n-Propylbenzene	380	Not Detected	Not Detected
sec-Butylbenzene	780	Not Detected	Not Detected
Styrene	600	Not Detected	Not Detected
t-Butylbenzene	780	Not Detected	Not Detected
tert-Butyl methyl ether	47	Not Detected	Not Detected
Tetrachloroethylene (PCE)	8.1	Not Detected	Not Detected
Toluene	490	Not Detected	Not Detected
trans-1,2-Dichloroethene	7	Not Detected	Not Detected
trans-1,3-Dichloropropene	1.8	Not Detected	Not Detected
Trichloroethylene (TCE)	0.41	Not Detected	Not Detected
Trichlorofluoromethane	2300	Not Detected	Not Detected
Vinyl chloride	0.059	Not Detected	Not Detected
Xylenes, total	58	Not Detected	Not Detected

Notes:

 - result detected above the EPA residential screening level

Bold - result detected above the method detection limit

-- no EPA residential screening level available

Not Detected - the parameter was not detected above the method detection limit

- result did not meet data quality criteria approved by EPA

Residential Regional Screening Level Concentrations obtained from "U.S. EPA Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=0.1) November 2024", available at <https://semspub.epa.gov/work/HQ/405271.pdf> and accessed January 2025.

mg/kg - milligrams per kilogram

EPA - United States Environmental Protection Agency

HQ - hazard quotient


J - estimated value

TR - target risk

TABLE 3
Summary of Soil Sample Results - Volatile Organic Compounds
Atherton Elementary School, Houston, Texas

Location ID Sample ID Sample Date Depth Range (inches)		OFFSS-014 OFFSS-014-2-6-D-SH-20240607 6/7/2024 2 - 6	OFFSS-015 OFFSS-015-2-6-D-SH-20240607 6/7/2024 2 - 6
Parameter	EPA Residential Screening Level		
Volatile Organic Compounds (mg/kg)			
1,1,1,2-Tetrachloroethane	2	Not Detected	Not Detected
1,1,1-Trichloroethane (TCA)	810	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.6	Not Detected	Not Detected
1,1,2-Trichloro-1,2,2-trifluoroethane	670	Not Detected	Not Detected
1,1,2-Trichloroethane	0.15	Not Detected	Not Detected
1,1-Dichloroethane	3.6	Not Detected	Not Detected
1,1-Dichloroethene	23	Not Detected	Not Detected
1,1-Dichloropropene	--	Not Detected	Not Detected
1,2,3-Trichlorobenzene	6.3	Not Detected	Not Detected
1,2,3-Trichloropropane	0.0051	Not Detected	Not Detected
1,2,3-Trimethylbenzene	34	Not Detected	Not Detected
1,2,4-Trichlorobenzene	5.8	Not Detected	Not Detected
1,2,4-Trimethylbenzene	30	Not Detected	Not Detected
1,2-Dibromo-3-chloropropane	0.0053	Not Detected	Not Detected
1,2-Dibromoethane (Ethylene Dibromide)	0.036	Not Detected	Not Detected
1,2-Dichlorobenzene	180	Not Detected	Not Detected
1,2-Dichloroethane	0.46	Not Detected	Not Detected
1,2-Dichloropropane	1.6	Not Detected	Not Detected
1,3,5-Trimethylbenzene (Mesitylene)	27	Not Detected	Not Detected
1,3-Dichlorobenzene	--	Not Detected	Not Detected
1,3-Dichloropropane	160	Not Detected	Not Detected
1,4-Dichlorobenzene	2.6	Not Detected	Not Detected
2,2-Dichloropropane	--	Not Detected	Not Detected
2-Chlorotoluene	160	Not Detected	Not Detected
4-Chlorotoluene	160	Not Detected	Not Detected
Acetone	7000	Not Detected	Not Detected
Acrylonitrile	0.25	Not Detected	Not Detected
Benzene	1.2	Not Detected	Not Detected
Bromobenzene	29	Not Detected	Not Detected
Bromodichloromethane	0.29	Not Detected	Not Detected
Bromoform	19	Not Detected	Not Detected
Bromomethane	0.68	Not Detected	Not Detected
Carbon Tetrachloride	0.65	Not Detected	Not Detected
Chlorobenzene	28	Not Detected	Not Detected
Chloroethane	540	Not Detected	Not Detected
Chloroform	0.32	Not Detected	Not Detected
Chloromethane	11	Not Detected	Not Detected
cis-1,2-Dichloroethylene	6.3	Not Detected	Not Detected
cis-1,3-Dichloropropene	1.8	Not Detected	Not Detected
Cymene	--	0.00665 J	0.0248
Dibromochloromethane	8.3	Not Detected	Not Detected
Dibromomethane	2.4	Not Detected	Not Detected
Dichlorodifluoromethane	8.7	Not Detected	Not Detected
Ethylbenzene	5.8	Not Detected	Not Detected
Hexachlorobutadiene	1.2	Not Detected	Not Detected
Isopropyl Ether	220	Not Detected	Not Detected
Isopropylbenzene (Cumene)	190	Not Detected	Not Detected
Methyl Ethyl Ketone (2-Butanone)	2700	Not Detected	Not Detected
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	3300	Not Detected	Not Detected
Methylene chloride	35	Not Detected	Not Detected
Naphthalene	2	Not Detected	Not Detected
n-Butylbenzene	390	Not Detected	Not Detected
n-Propylbenzene	380	Not Detected	Not Detected
sec-Butylbenzene	780	Not Detected	Not Detected
Styrene	600	Not Detected	Not Detected
t-Butylbenzene	780	Not Detected	Not Detected
tert-Butyl methyl ether	47	Not Detected	Not Detected
Tetrachloroethylene (PCE)	8.1	Not Detected	Not Detected
Toluene	490	Not Detected	Not Detected
trans-1,2-Dichloroethene	7	Not Detected	Not Detected
trans-1,3-Dichloropropene	1.8	Not Detected	Not Detected
Trichloroethylene (TCE)	0.41	Not Detected	Not Detected
Trichlorofluoromethane	2300	Not Detected	Not Detected
Vinyl chloride	0.059	Not Detected	Not Detected
Xylenes, total	58	Not Detected	Not Detected

Notes:

 - result detected above the EPA residential screening level

Bold - result detected above the method detection limit

-- no EPA residential screening level available

Not Detected - the parameter was not detected above the method detection limit

- result did not meet data quality criteria approved by EPA

Residential Regional Screening Level Concentrations obtained from "U.S. EPA Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=0.1) November 2024", available at <https://semspub.epa.gov/work/HQ/405271.pdf> and accessed January 2025.

mg/kg - milligrams per kilogram

EPA - United States Environmental Protection Agency

HQ - hazard quotient


J - estimated value

TR - target risk

TABLE 3
Summary of Soil Sample Results - Volatile Organic Compounds
Atherton Elementary School, Houston, Texas

Location ID		OFFSS-056
Sample ID		OFFSS-056-2-6-D-SH-20240626
Sample Date		6/26/2024
Depth Range (inches)		2 - 6
Parameter	EPA Residential Screening Level	
Volatile Organic Compounds (mg/kg)		
1,1,1,2-Tetrachloroethane	2	Not Detected
1,1,1-Trichloroethane (TCA)	810	Not Detected
1,1,2,2-Tetrachloroethane	0.6	Not Detected
1,1,2-Trichloro-1,2,2-trifluoroethane	670	Not Detected
1,1,2-Trichloroethane	0.15	Not Detected
1,1-Dichloroethane	3.6	Not Detected
1,1-Dichloroethene	23	Not Detected
1,1-Dichloropropene	--	Not Detected
1,2,3-Trichlorobenzene	6.3	Not Detected
1,2,3-Trichloropropane	0.0051	Not Detected
1,2,3-Trimethylbenzene	34	Not Detected
1,2,4-Trichlorobenzene	5.8	Not Detected
1,2,4-Trimethylbenzene	30	Not Detected
1,2-Dibromo-3-chloropropane	0.0053	Not Detected
1,2-Dibromoethane (Ethylene Dibromide)	0.036	Not Detected
1,2-Dichlorobenzene	180	Not Detected
1,2-Dichloroethane	0.46	Not Detected
1,2-Dichloropropane	1.6	Not Detected
1,3,5-Trimethylbenzene (Mesitylene)	27	Not Detected
1,3-Dichlorobenzene	--	Not Detected
1,3-Dichloropropane	160	Not Detected
1,4-Dichlorobenzene	2.6	Not Detected
2,2-Dichloropropane	--	Not Detected
2-Chlorotoluene	160	Not Detected
4-Chlorotoluene	160	Not Detected
Acetone	7000	Not Detected
Acrylonitrile	0.25	Not Detected
Benzene	1.2	Not Detected
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cis-1,2-Dichloroethylene	6.3	Not Detected
cis-1,3-Dichloropropene	1.8	Not Detected
Cymene	--	Not Detected
Dibromochloromethane	8.3	Not Detected
Dibromomethane	2.4	Not Detected
Dichlorodifluoromethane	8.7	Not Detected
Ethylbenzene	5.8	Not Detected
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Isopropyl Ether	220	Not Detected
Isopropylbenzene (Cumene)	190	Not Detected
Methyl Ethyl Ketone (2-Butanone)	2700	Not Detected
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	3300	Not Detected
Methylene chloride	35	0.0124 J
Naphthalene	2	Not Detected
n-Butylbenzene	390	Not Detected
n-Propylbenzene	380	Not Detected
sec-Butylbenzene	780	Not Detected
Styrene	600	Not Detected
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tert-Butyl methyl ether	47	Not Detected
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