

## LEGEND

PARCEL BOUNDARY

FIFTH WARD/KASHMERE GARDENS UPRR SITE BOUNDARY

## VALIDATED RESULTS

BELOW EPA SCREENING LEVELS (2)

## City of Houston/UPRR Property

0 200 400

SCALE IN FEET



US EPA REGION 6

## FIGURE 5

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

DATE  
02/04/2025

PROJECT NO  
26500.012.001.0004

SCALE  
AS SHOWN

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

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	
<b>Dioxins and Furans (ng/kg)</b>		
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**  
**Barbara Jordan Family Park, Houston, Texas**

Parameter	EPA Residential Screening Level	Location ID	OFFSS-019	OFFSS-019	OFFSS-019
		Sample ID	OFFSS-019-0-2-C-SS-20240610-SV	OFFSS-019-2-6-C-SH-20240610-SV	OFFSS-019-6-12-C-SH-20240610-SV
		Sample Date	6/10/2024	6/10/2024	6/10/2024
		Depth Range (inches)	0 - 2	2 - 6	6 - 12
<b>Dioxins and Furans (ng/kg) - E1613</b>					
1,2,3,4,6,7,8-Heptachlorodibenzofuran	--		89.6	72.3	54.0
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	--		352	399	231
1,2,3,4,7,8,9-Heptachlorodibenzofuran	--		3.33 J	3.29 J	2.54 J
1,2,3,4,7,8-Hexachlorodibenzofuran	--		2.77 J	5.08	2.21 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	--		4.63	4.88	2.99 J
1,2,3,6,7,8-Hexachlorodibenzofuran	--		3.53 J	5.06	2.24 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	--		7.58	8.28	4.85
1,2,3,7,8,9-Hexachlorodibenzofuran	--		Not Detected	1.41 J	Not Detected
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	--		10.8	8.46	5.54
1,2,3,7,8-Pentachlorodibenzofuran	--		1.29 J	2.81 J	0.627 J
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	--		1.31 J	1.78 J	Not Detected
2,3,4,6,7,8-Hexachlorodibenzofuran	--		6.17	8.09	3.94 J
2,3,4,7,8-Pentachlorodibenzofuran	--		1.74 J	4.93	1.21 J
2,3,7,8-Tetrachlorodibenzofuran	--		0.790 J	1.82	0.900 J
2,3,7,8-Tetrachlorodibenzo-p-dioxin	4.8		0.222 J	0.260 J	0.301 J
Octachlorodibenzofuran	--		220	162	136
Octachlorodibenzo-p-dioxin	--		11200	28300	7620
Dioxin/furan TCDD toxicity equivalent (WHO 2005, ND = RL)	48		14 J	21 J	9.0 J

**Notes:**

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**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**  
**Barbara Jordan Family Park, Houston, Texas**

	Location ID Sample ID Sample Date Depth Range (inches)	OFFSS-020 OFFSS-020-0-2-C-SS-20240610-SV 6/10/2024 0 - 2	OFFSS-020 OFFSS-020-2-6-C-SH-20240610-SV 6/10/2024 2 - 6
<b>Parameter</b>	<b>EPA Residential Screening Level</b>		
<b>Dioxins and Furans (ng/kg) - E1613</b>			
1,2,3,4,6,7,8-Heptachlorodibenzofuran	--	<b>50.1</b>	<b>36.2</b>
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	--	<b>310</b>	<b>211</b>
1,2,3,4,7,8,9-Heptachlorodibenzofuran	--	<b>1.81 J</b>	<b>1.43 J</b>
1,2,3,4,7,8-Hexachlorodibenzofuran	--	<b>1.84 J</b>	<b>1.95 J</b>
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	--	<b>3.04 J</b>	<b>3.21 J</b>
1,2,3,6,7,8-Hexachlorodibenzofuran	--	<b>2.02 J</b>	<b>2.11 J</b>
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	--	<b>4.82</b>	<b>4.72 J</b>
1,2,3,7,8,9-Hexachlorodibenzofuran	--	Not Detected	Not Detected
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	--	<b>5.74</b>	<b>4.75 J</b>
1,2,3,7,8-Pentachlorodibenzofuran	--	<b>0.979 J</b>	<b>0.843 J</b>
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	--	Not Detected	Not Detected
2,3,4,6,7,8-Hexachlorodibenzofuran	--	<b>3.28 J</b>	<b>2.99 J</b>
2,3,4,7,8-Pentachlorodibenzofuran	--	<b>1.19 J</b>	Not Detected
2,3,7,8-Tetrachlorodibenzofuran	--	<b>0.469 J</b>	<b>0.709 J</b>
2,3,7,8-Tetrachlorodibenzo-p-dioxin	4.8	Not Detected	Not Detected
Octachlorodibenzofuran	--	<b>165</b>	<b>90.9</b>
Octachlorodibenzo-p-dioxin	--	<b>14700</b>	<b>11300</b>
Dioxin/furan TCDD toxicity equivalent (WHO 2005, ND = RL)	48	<b>12 J</b>	<b>9.4 J</b>

**Notes:**

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-- 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  
Barbara Jordan Family Park, Houston, Texas

	Location ID Sample ID Sample Date Depth Range (inches)	OFFSS-019 OFFSS-019-0-2-C-SS-20240610 6/10/2024 0 - 2	OFFSS-019 OFFSS-019-2-6-C-SH-20240610 6/10/2024 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	--	0.00290 J	Not Detected
Anthracene	1800	0.00350 J	0.00291 J
Benzo(a)anthracene	1.1	0.0189	0.0131
Benzo(a)pyrene	0.11	0.0229	0.0176
Benzo(b)fluoranthene	1.1	0.0408	0.0330
Benzo(g,h,i)perylene	--	0.0210	0.0170
Benzo(k)fluoranthene	11	0.0136	0.0108
Chrysene	110	0.0199	0.0129
Dibenz(a,h)anthracene	0.11	0.00360 J	0.00327 J
Fluoranthene	240	0.0366	0.0193
Fluorene	240	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1	0.0181	0.0147
Naphthalene	2	Not Detected	Not Detected
Phenanthrene	--	0.00913	0.00510 J
Pyrene	180	0.0348	0.0225
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
Benzidine	0.00053	Not Detected	Not Detected
Benzo(a)anthracene	1.1	0.0251 J	0.0287 J
Benzo(a)pyrene	0.11	0.0345 J	0.0355 J
Benzo(b)fluoranthene	1.1	0.0718 J	0.0770
Benzo(g,h,i)perylene	--	0.0189 J	Not Detected
Benzo(k)fluoranthene	11	0.0199 J	0.0236 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	0.0264 J	0.0272 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	0.0458 J	0.0449 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	--	Not Detected	0.0161 J
Phenol	1900	Not Detected	Not Detected
Pyrene	180	0.0494 J	0.0521 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  
Barbara Jordan Family Park, Houston, Texas

	Location ID Sample ID Sample Date Depth Range (inches)	OFFSS-019 OFFSS-019-6-12-C-SH-20240610 6/10/2024 6 - 12	OFFSS-020 OFFSS-020-0-2-C-SS-20240610 6/10/2024 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	--	0.00557 J	Not Detected
Anthracene	1800	0.00586 J	Not Detected
Benzo(a)anthracene	1.1	0.0327	0.0129
Benzo(a)pyrene	0.11	0.0368	0.0163
Benzo(b)fluoranthene	1.1	0.0540	0.0269
Benzo(g,h,i)perylene	--	0.0316	0.0165
Benzo(k)fluoranthene	11	0.0191	0.00924
Chrysene	110	0.0345	0.0138
Dibenz(a,h)anthracene	0.11	0.00493 J	0.00293 J
Fluoranthene	240	0.0696	0.0254
Fluorene	240	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1	0.0256	0.0132
Naphthalene	2	Not Detected	Not Detected
Phenanthrene	--	0.0236	0.0109
Pyrene	180	0.0642	0.0234
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	--	0.00638 J	Not Detected
Anthracene	1800	Not Detected	Not Detected
Benzidine	0.00053	Not Detected	Not Detected
Benzo(a)anthracene	1.1	0.0216 J	0.0359 J
Benzo(a)pyrene	0.11	0.0253 J	0.0480 J
Benzo(b)fluoranthene	1.1	0.0497	0.0861
Benzo(g,h,i)perylene	--	0.0223 J	0.0273 J
Benzo(k)fluoranthene	11	0.0143 J	0.0264 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	0.0198 J	0.0455 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	0.0340 J	0.0704 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	0.0239 J	0.0302 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	--	0.0160 J	0.0344 J
Phenol	1900	Not Detected	Not Detected
Pyrene	180	0.0324 J	0.0700 J

Notes:

 - result detected above the EPA residential screening level

**Bold** - result detected above the method detection limit

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

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mg/kg - milligrams per kilogram

HQ - hazard quotient

J - estimated value

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TABLE 2  
Summary of Soil Sample Results - Polycyclic Aromatic Hydrocarbons and Semi-Volatile Organic Compounds  
Barbara Jordan Family Park, Houston, Texas

	Location ID Sample ID Sample Date Depth Range (inches)	OFFSS-020 OFFSS-020-2-6-C-SH-20240610 6/10/2024 2 - 6
Parameter	EPA Residential Screening Level	
Polycyclic Aromatic Hydrocarbons (mg/kg) - SW8270ESIM		
1-Methylnaphthalene	18	Not Detected
2-Chloronaphthalene	480	Not Detected
2-Methylnaphthalene	24	Not Detected
Acenaphthene	360	Not Detected
Acenaphthylene	--	Not Detected
Anthracene	1800	0.00459 J
Benzo(a)anthracene	1.1	0.0684
Benzo(a)pyrene	0.11	0.0810 J
Benzo(b)fluoranthene	1.1	0.123 J
Benzo(g,h,i)perylene	--	0.0605 J
Benzo(k)fluoranthene	11	0.0395
Chrysene	110	0.0729
Dibenz(a,h)anthracene	0.11	0.0146
Fluoranthene	240	0.0802
Fluorene	240	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1	0.0544
Naphthalene	2	Not Detected
Phenanthrene	--	0.0230
Pyrene	180	0.0710
Semi-Volatile Organic Compounds (mg/kg) - SW8270E		
1,2,4-Trichlorobenzene	5.8	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
2,4-Dichlorophenol	19	Not Detected
2,4-Dimethylphenol	130	Not Detected
2,4-Dinitrophenol	13	Not Detected
2,4-Dinitrotoluene	1.7	Not Detected
2,6-Dinitrotoluene	0.36	Not Detected
2-Chloronaphthalene	480	Not Detected
2-Chlorophenol	39	Not Detected
2-Nitrophenol	--	Not Detected
3,3'-Dichlorobenzidine	1.20	Not Detected
4,6-Dinitro-2-methylphenol	0.51	Not Detected
4-Bromophenyl phenyl ether	--	Not Detected
4-Chloro-3-methylphenol	630	Not Detected
4-Chlorophenyl phenyl ether	--	Not Detected
4-Nitrophenol	--	Not Detected
Acenaphthene	360	Not Detected
Acenaphthylene	--	Not Detected
Anthracene	1800	Not Detected
Benzidine	0.00053	Not Detected
Benzo(a)anthracene	1.1	0.0502 J
Benzo(a)pyrene	0.11	0.0495 J
Benzo(b)fluoranthene	1.1	0.0904
Benzo(g,h,i)perylene	--	Not Detected
Benzo(k)fluoranthene	11	0.0295 J
Benzyl butyl phthalate	290	Not Detected
Bis(2-Chloroethoxy) methane	19	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	Not Detected
Chrysene	110	0.0442 J
Dibenz(a,h)anthracene	0.11	Not Detected
Diethyl phthalate	5100	Not Detected
Dimethyl phthalate	--	Not Detected
di-n-Butyl phthalate	630	Not Detected
di-n-Octylphthalate	63	Not Detected
Fluoranthene	240	0.0853
Fluorene	240	Not Detected
Hexachlorobenzene	0.078	Not Detected
Hexachlorobutadiene	1.2	Not Detected
Hexachlorocyclopentadiene	0.18	Not Detected
Hexachloroethane	1.8	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1	Not Detected
Isophorone	570	Not Detected
Naphthalene	2	Not Detected
Nitrobenzene	5.1	Not Detected
N-Nitrosodimethylamine	0.002	Not Detected
N-Nitrosodi-n-propylamine	0.078	Not Detected
N-Nitrosodiphenylamine	110	Not Detected
Pentachlorophenol	1	Not Detected
Phenanthrene	--	0.0240 J
Phenol	1900	Not Detected
Pyrene	180	0.0766 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  
Barbara Jordan Family Park, Houston, Texas

	Location ID	OFFSS-019	OFFSS-019
	Sample ID	OFFSS-019-2-6-D-SH-20240610	OFFSS-019-6-12-D-SH-20240610
	Sample Date	6/10/2024	6/10/2024
	Depth Range (inches)	2 - 6	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	Not Detected
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	0.0129	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  
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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  
Barbara Jordan Family Park, Houston, Texas

		Location ID	OFFSS-020
		Sample ID	OFFSS-020-2-6-D-SH-20240610
		Sample Date	6/10/2024
		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
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1,4-Dichlorobenzene	2.6		Not Detected
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2-Chlorotoluene	160		Not Detected
4-Chlorotoluene	160		Not Detected
Acetone	7000		Not Detected
Acrylonitrile	0.25		Not Detected
Benzene	1.2		Not Detected
Bromobenzene	29		Not Detected
Bromodichloromethane	0.29		Not Detected
Bromoform	19		Not Detected
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Methylene chloride	35		Not Detected
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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