

LEGEND

PARCEL BOUNDARY

VALIDATED RESULTS

BELOW EPA SCREENING LEVELS (2)

EXCEEDS EPA SCREENING LEVELS (3)

Julia Hester House Property

0 200 400

SCALE IN FEET



EPA SCREENING LEVEL:
DIOXIN / FURAN = 48 ng/kg
BENZO(a)PYRENE = 0.11 mg/kg



US EPA REGION 6

FIGURE 3

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	
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
Julia Hester House, Houston, Texas

Location ID Sample ID Sample Date Depth Range (inches)		OFFSS-008 OFFSS-008-0-2-C-SS-20240606-SV 6/6/2024 0 - 2	OFFSS-008 OFFSS-008-2-6-C-SH-20240606-SV 6/6/2024 2 - 6	OFFSS-009 OFFSS-009-0-2-C-SS-20240606-SV 6/6/2024 0 - 2
Parameter	EPA Residential Screening Level			
Dioxins and Furans (ng/kg)				
1,2,3,4,6,7,8-Heptachlorodibenzofuran	--	154	273	1260
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	--	1250	1940	8370
1,2,3,4,7,8,9-Heptachlorodibenzofuran	--	6.99	9.62	65.6
1,2,3,4,7,8-Hexachlorodibenzofuran	--	5.55	6.60	24.2
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	--	12.2	14.8	87.0
1,2,3,6,7,8-Hexachlorodibenzofuran	--	3.80 J	5.07	34.0
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	--	22.7	54.3	183
1,2,3,7,8,9-Hexachlorodibenzofuran	--	0.946 J	1.69 J	6.71
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	--	18.7	40.7	135
1,2,3,7,8-Pentachlorodibenzofuran	--	11.9 J	47.2 J	128 J
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	--	2.28 J	6.59	19.4
2,3,4,6,7,8-Hexachlorodibenzofuran	--	4.93	6.92	31.2
2,3,4,7,8-Pentachlorodibenzofuran	--	2.57 J	5.62 J	19.2 J
2,3,7,8-Tetrachlorodibenzofuran	--	0.899 J	2.35	4.61
2,3,7,8-Tetrachlorodibenzo-p-dioxin	4.8	Not Detected	0.859 J	0.773 J
Octachlorodibenzofuran	--	550	804	5020
Octachlorodibenzo-p-dioxin	--	16400	24700	143000
Dioxin/furan TEQ (WHO 2005, ND = RL)	48	30 J	54	220

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
Julia Hester House, Houston, Texas

Location ID Sample ID Sample Date Depth Range (inches)		OFFSS-009 OFFSS-009-2-6-C-SH-20240606-SV 6/6/2024 2 - 6	OFFSS-010 OFFSS-010-0-2-C-SS-20240606-SV 6/6/2024 0 - 2	OFFSS-010 DUP-01-0-2-C-SS-20240606-SV 6/6/2024 0 - 2
Parameter	EPA Residential Screening Level			
Dioxins and Furans (ng/kg)				
1,2,3,4,6,7,8-Heptachlorodibenzofuran	--	993	9.04	7.66
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	--	6000	57.6	65.6
1,2,3,4,7,8,9-Heptachlorodibenzofuran	--	81.7	Not Detected	Not Detected
1,2,3,4,7,8-Hexachlorodibenzofuran	--	33.3	Not Detected	Not Detected
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	--	59.5	Not Detected	Not Detected
1,2,3,6,7,8-Hexachlorodibenzofuran	--	41.1	Not Detected	Not Detected
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	--	137	1.41 J	1.32 J
1,2,3,7,8,9-Hexachlorodibenzofuran	--	10.9	Not Detected	Not Detected
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	--	102	Not Detected	1.43 J
1,2,3,7,8-Pentachlorodibenzofuran	--	87.5 J	Not Detected	1.02 J
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	--	10.8	Not Detected	Not Detected
2,3,4,6,7,8-Hexachlorodibenzofuran	--	27.4	Not Detected	0.868 J
2,3,4,7,8-Pentachlorodibenzofuran	--	13.5 J	Not Detected	Not Detected
2,3,7,8-Tetrachlorodibenzofuran	--	4.56	Not Detected	Not Detected
2,3,7,8-Tetrachlorodibenzo-p-dioxin	4.8	0.662 J	Not Detected	Not Detected
Octachlorodibenzofuran	--	3860	23.8	25.8
Octachlorodibenzo-p-dioxin	--	95100	3680 J	5680 J
Dioxin/furan TEQ (WHO 2005, ND = RL)	48	160	4.0 J	4.6 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

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
Julia Hester House, Houston, Texas

Location ID Sample ID Sample Date Depth Range (inches)		OFFSS-010 OFFSS-010-2-6-C-SH-20240606-SV 6/6/2024 2 - 6	OFFSS-010 DUP-01-2-6-C-SH-20240606-SV 6/6/2024 2 - 6	OFFSS-011 OFFSS-011-0-2-C-SS-20240606-SV 6/6/2024 0 - 2
Parameter	EPA Residential Screening Level			
Dioxins and Furans (ng/kg)				
1,2,3,4,6,7,8-Heptachlorodibenzofuran	--	9.48	10.2	14.1
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	--	68.7	73.5	204
1,2,3,4,7,8,9-Heptachlorodibenzofuran	--	Not Detected	Not Detected	Not Detected
1,2,3,4,7,8-Hexachlorodibenzofuran	--	Not Detected	Not Detected	1.20 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	--	Not Detected	Not Detected	2.66 J
1,2,3,6,7,8-Hexachlorodibenzofuran	--	Not Detected	1.34 J	1.28 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	--	1.32 J	1.40 J	3.91 J
1,2,3,7,8,9-Hexachlorodibenzofuran	--	Not Detected	Not Detected	1.12 J
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	--	1.81 J	1.60 J	4.71 J
1,2,3,7,8-Pentachlorodibenzofuran	--	Not Detected	Not Detected	9.75 J
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	--	Not Detected	Not Detected	Not Detected
2,3,4,6,7,8-Hexachlorodibenzofuran	--	Not Detected	Not Detected	1.45 J
2,3,4,7,8-Pentachlorodibenzofuran	--	Not Detected	Not Detected	1.11 J
2,3,7,8-Tetrachlorodibenzofuran	--	Not Detected	Not Detected	0.854 J
2,3,7,8-Tetrachlorodibenzo-p-dioxin	4.8	Not Detected	Not Detected	Not Detected
Octachlorodibenzofuran	--	27.8	25.5	42.0
Octachlorodibenzo-p-dioxin	--	3470	3800	32300 J
Dioxin/furan TEQ (WHO 2005, ND = RL)	48	4.0	4.2 J	15 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

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
Julia Hester House, Houston, Texas

Location ID		OFFSS-011	OFFSS-011	OFFSS-012
Sample ID		OFFSS-011-2-6-C-SH-20240606-SV	OFFSS-011-6-12-C-SH-20240606-SV	OFFSS-012-0-2-C-SS-20240606-SV
Sample Date		6/6/2024	6/6/2024	6/6/2024
Depth Range (inches)		2 - 6	6 - 12	0 - 2
Parameter	EPA Residential Screening Level			
Dioxins and Furans (ng/kg)				
1,2,3,4,6,7,8-Heptachlorodibenzofuran	--	9.56	8.65	8.25
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	--	187	126	301
1,2,3,4,7,8,9-Heptachlorodibenzofuran	--	Not Detected	Not Detected	Not Detected
1,2,3,4,7,8-Hexachlorodibenzofuran	--	Not Detected	Not Detected	Not Detected
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	--	1.79 J	Not Detected	2.18 J
1,2,3,6,7,8-Hexachlorodibenzofuran	--	0.960 J	Not Detected	Not Detected
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	--	2.97 J	2.27 J	3.65 J
1,2,3,7,8,9-Hexachlorodibenzofuran	--	Not Detected	Not Detected	Not Detected
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	--	3.82 J	2.74 J	6.70
1,2,3,7,8-Pentachlorodibenzofuran	--	Not Detected	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	--	0.868 J	Not Detected	Not Detected
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	--	23.9	23.9	18.3
Octachlorodibenzo-p-dioxin	--	24600 J	16100	58900
Dioxin/furan TEQ (WHO 2005, ND = RL)	48	12 J	8.7	24

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
Julia Hester House, Houston, Texas

		Location ID	OFFSS-012
		Sample ID	OFFSS-012-2-6-C-SH-20240606-SV
		Sample Date	6/6/2024
		Depth Range (inches)	2 - 6
Parameter	EPA Residential Screening Level		
Dioxins and Furans (ng/kg)			
1,2,3,4,6,7,8-Heptachlorodibenzofuran	--	6.81	
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	--	313	
1,2,3,4,7,8,9-Heptachlorodibenzofuran	--	Not Detected	
1,2,3,4,7,8-Hexachlorodibenzofuran	--	Not Detected	
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	--	2.91 J	
1,2,3,6,7,8-Hexachlorodibenzofuran	--	Not Detected	
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	--	3.29 J	
1,2,3,7,8,9-Hexachlorodibenzofuran	--	Not Detected	
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	--	7.03	
1,2,3,7,8-Pentachlorodibenzofuran	--	Not Detected	
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	--	Not Detected	
2,3,4,6,7,8-Hexachlorodibenzofuran	--	Not Detected	
2,3,4,7,8-Pentachlorodibenzofuran	--	Not Detected	
2,3,7,8-Tetrachlorodibenzofuran	--	Not Detected	
2,3,7,8-Tetrachlorodibenzo-p-dioxin	4.8	Not Detected	
Octachlorodibenzofuran	--	15.3	
Octachlorodibenzo-p-dioxin	--	70900	
Dioxin/furan TEQ (WHO 2005, ND = RL)	48	28	

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
Julia Hester House, Houston, Texas

Location ID Sample ID Sample Date Depth Range (inches)		OFFSS-008 OFFSS-008-0-2-C-SS-20240606 6/6/2024 0 - 2	OFFSS-008 OFFSS-008-2-6-C-SH-20240606 6/6/2024 2 - 6	OFFSS-009 OFFSS-009-0-2-C-SS-20240606 6/6/2024 0 - 2
Parameter	EPA Residential Screening Level			
Polycyclic Aromatic Hydrocarbons (mg/kg) - EPA 8270E SIM				
1-Methylnaphthalene	18	Not Detected	Not Detected	Not Detected
2-Chloronaphthalene	480	Not Detected	Not Detected	Not Detected
2-Methylnaphthalene	24	Not Detected	Not Detected	Not Detected
Acenaphthene	360	Not Detected	Not Detected	Not Detected
Acenaphthylene	--	Not Detected	Not Detected	Not Detected
Anthracene	1800	Not Detected	Not Detected	0.00331 J
Benzo(a)anthracene	1.1	0.00654 J	0.00265 J	0.0187
Benzo(a)pyrene	0.11	0.00584 J	0.00286 J	0.0195
Benzo(b)fluoranthene	1.1	0.00862	Not Detected	0.0296
Benzo(g,h,i)perylene	--	0.00469 J	Not Detected	0.0180
Benzo(k)fluoranthene	11	Not Detected	Not Detected	0.0101
Chrysene	110	0.00645 J	Not Detected	0.0202
Dibenz(a,h)anthracene	0.11	Not Detected	Not Detected	Not Detected
Fluoranthene	240	0.0144	0.00500 J	0.0498
Fluorene	240	Not Detected	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1	0.00694 J	0.00239 J	0.0184
Naphthalene	2	Not Detected	Not Detected	Not Detected
Phenanthrene	--	0.00566 J	Not Detected	0.0154
Pyrene	180	0.00950	0.00382 J	0.0328
Semi-Volatile Organic Compounds (mg/kg) - EPA 8270E				
1,2,4-Trichlorobenzene	5.8	Not Detected	Not Detected	Not Detected
1,2-Dichlorobenzene	180	Not Detected	Not Detected	Not Detected
1,3-Dichlorobenzene	--	Not Detected	Not Detected	Not Detected
1,4-Dichlorobenzene	2.6	Not Detected	Not Detected	Not Detected
2,4,6-Trichlorophenol	6.3	Not Detected	Not Detected	Not Detected
2,4-Dichlorophenol	19	Not Detected	Not Detected	Not Detected
2,4-Dimethylphenol	130	Not Detected	Not Detected	Not Detected
2,4-Dinitrophenol	13	Not Detected	Not Detected	Not Detected
2,4-Dinitrotoluene	1.7	Not Detected	Not Detected	Not Detected
2,6-Dinitrotoluene	0.36	Not Detected	Not Detected	Not Detected
2-Chloronaphthalene	480	Not Detected	Not Detected	Not Detected
2-Chlorophenol	39	Not Detected	Not Detected	Not Detected
2-Nitrophenol	--	Not Detected	Not Detected	Not Detected
3,3'-Dichlorobenzidine	1.20	Not Detected	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	0.51	Not Detected	Not Detected	Not Detected
4-Bromophenyl phenyl ether	--	Not Detected	Not Detected	Not Detected
4-Chloro-3-methylphenol	630	Not Detected	Not Detected	Not Detected
4-Chlorophenyl phenyl ether	--	Not Detected	Not Detected	Not Detected
4-Nitrophenol	--	Not Detected	Not Detected	Not Detected
Acenaphthene	360	Not Detected	Not Detected	Not Detected
Acenaphthylene	--	Not Detected	Not Detected	Not Detected
Anthracene	1800	Not Detected	Not Detected	Not Detected
Benzdine	0.00053	-	-	-
Benzo(a)anthracene	1.1	Not Detected	Not Detected	Not Detected
Benzo(a)pyrene	0.11	Not Detected	Not Detected	Not Detected
Benzo(b)fluoranthene	1.1	Not Detected	Not Detected	Not Detected
Benzo(g,h,i)perylene	--	Not Detected	Not Detected	Not Detected
Benzo(k)fluoranthene	11	Not Detected	Not Detected	Not Detected
Benzyl butyl phthalate	290	Not Detected	Not Detected	Not Detected
Bis(2-Chloroethoxy) methane	19	Not Detected	Not Detected	Not Detected
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	0.23	Not Detected	Not Detected	Not Detected
Bis(2-Chloroisopropyl) ether	310	Not Detected	Not Detected	Not Detected
Bis(2-Ethylhexyl) phthalate	39	Not Detected	Not Detected	Not Detected
Chrysene	110	Not Detected	Not Detected	Not Detected
Dibenz(a,h)anthracene	0.11	Not Detected	Not Detected	Not Detected
Diethyl phthalate	5100	Not Detected	Not Detected	Not Detected
Dimethyl phthalate	--	Not Detected	Not Detected	Not Detected
di-n-Butyl phthalate	630	Not Detected	Not Detected	Not Detected
di-n-Octylphthalate	63	Not Detected	Not Detected	Not Detected
Fluoranthene	240	Not Detected	Not Detected	Not Detected
Fluorene	240	Not Detected	Not Detected	Not Detected
Hexachlorobenzene	0.078	Not Detected	Not Detected	Not Detected
Hexachlorobutadiene	1.2	Not Detected	Not Detected	Not Detected
Hexachlorocyclopentadiene	0.18	Not Detected	Not Detected	Not Detected
Hexachloroethane	1.8	Not Detected	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1	Not Detected	Not Detected	Not Detected
Isophorone	570	Not Detected	Not Detected	Not Detected
Naphthalene	2	Not Detected	Not Detected	Not Detected
Nitrobenzene	5.1	Not Detected	Not Detected	Not Detected
N-Nitrosodimethylamine	0.002	Not Detected	Not Detected	Not Detected
N-Nitrosodi-n-propylamine	0.078	Not Detected	Not Detected	Not Detected
N-Nitrosodiphenylamine	110	Not Detected	Not Detected	Not Detected
Pentachlorophenol	1	Not Detected	Not Detected	Not Detected
Phenanthrene	--	Not Detected	Not Detected	Not Detected
Phenol	1900	Not Detected	Not Detected	Not Detected
Pyrene	180	Not Detected	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.
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
Julia Hester House, Houston, Texas

Location ID Sample ID Sample Date Depth Range (inches)		OFFSS-009 OFFSS-009-2-6-C-SH-20240606 6/6/2024 2 - 6	OFFSS-010 OFFSS-010-0-2-C-SS-20240606 6/6/2024 0 - 2	OFFSS-010 DUP-01-0-2-C-SS-20240606 6/6/2024 0 - 2
Parameter	EPA Residential Screening Level			
Polycyclic Aromatic Hydrocarbons (mg/kg) - EPA 8270E SIM				
1-Methylnaphthalene	18	Not Detected	Not Detected	Not Detected
2-Chloronaphthalene	480	Not Detected	Not Detected	Not Detected
2-Methylnaphthalene	24	Not Detected	Not Detected	Not Detected
Acenaphthene	360	Not Detected	0.00555 J	Not Detected
Acenaphthylene	--	Not Detected	Not Detected	Not Detected
Anthracene	1800	Not Detected	0.0103	Not Detected
Benzo(a)anthracene	1.1	0.00981	0.0472 J	0.0151 J
Benzo(a)pyrene	0.11	0.00887	0.0426 J	0.0162 J
Benzo(b)fluoranthene	1.1	0.0134	0.0617 J	0.0252 J
Benzo(g,h,i)perylene	--	0.00741 J	0.0345 J	0.0143 J
Benzo(k)fluoranthene	11	0.00454 J	0.0223 J	0.00904 J
Chrysene	110	0.0103	0.0404 J	0.0179 J
Dibenz(a,h)anthracene	0.11	Not Detected	0.00659 J	Not Detected
Fluoranthene	240	0.0232	0.123 J	0.0412 J
Fluorene	240	Not Detected	0.00362 J	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1	0.00757 J	0.0317 J	0.0120 J
Naphthalene	2	Not Detected	Not Detected	Not Detected
Phenanthrene	--	0.00872	0.0629 J	0.0174 J
Pyrene	180	0.0158	0.0956 J	0.0334 J
Semi-Volatile Organic Compounds (mg/kg) - EPA 8270E				
1,2,4-Trichlorobenzene	5.8	Not Detected	Not Detected	Not Detected
1,2-Dichlorobenzene	180	Not Detected	Not Detected	Not Detected
1,3-Dichlorobenzene	--	Not Detected	Not Detected	Not Detected
1,4-Dichlorobenzene	2.6	Not Detected	Not Detected	Not Detected
2,4,6-Trichlorophenol	6.3	Not Detected	Not Detected	Not Detected
2,4-Dichlorophenol	19	Not Detected	Not Detected	Not Detected
2,4-Dimethylphenol	130	Not Detected	Not Detected	Not Detected
2,4-Dinitrophenol	13	Not Detected	Not Detected	Not Detected
2,4-Dinitrotoluene	1.7	Not Detected	Not Detected	Not Detected
2,6-Dinitrotoluene	0.36	Not Detected	Not Detected	Not Detected
2-Chloronaphthalene	480	Not Detected	Not Detected	Not Detected
2-Chlorophenol	39	Not Detected	Not Detected	Not Detected
2-Nitrophenol	--	Not Detected	Not Detected	Not Detected
3,3'-Dichlorobenzidine	1.20	Not Detected	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	0.51	Not Detected	Not Detected	Not Detected
4-Bromophenyl phenyl ether	--	Not Detected	Not Detected	Not Detected
4-Chloro-3-methylphenol	630	Not Detected	Not Detected	Not Detected
4-Chlorophenyl phenyl ether	--	Not Detected	Not Detected	Not Detected
4-Nitrophenol	--	Not Detected	Not Detected	Not Detected
Acenaphthene	360	Not Detected	0.0194 J	Not Detected
Acenaphthylene	--	Not Detected	Not Detected	Not Detected
Anthracene	1800	Not Detected	0.0400 J	Not Detected
Benzdine	0.00053	-	Not Detected	Not Detected
Benzo(a)anthracene	1.1	Not Detected	0.110	Not Detected
Benzo(a)pyrene	0.11	Not Detected	0.103	Not Detected
Benzo(b)fluoranthene	1.1	Not Detected	0.140 J	0.0102 J
Benzo(g,h,i)perylene	--	Not Detected	0.0608	Not Detected
Benzo(k)fluoranthene	11	Not Detected	0.0430 J	Not Detected
Benzyl butyl phthalate	290	Not Detected	Not Detected	Not Detected
Bis(2-Chloroethoxy) methane	19	Not Detected	Not Detected	Not Detected
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	0.23	Not Detected	Not Detected	Not Detected
Bis(2-Chloroisopropyl) ether	310	Not Detected	Not Detected	Not Detected
Bis(2-Ethylhexyl) phthalate	39	Not Detected	Not Detected	Not Detected
Chrysene	110	Not Detected	0.110	Not Detected
Dibenz(a,h)anthracene	0.11	Not Detected	Not Detected	Not Detected
Diethyl phthalate	5100	Not Detected	Not Detected	Not Detected
Dimethyl phthalate	--	Not Detected	Not Detected	Not Detected
di-n-Butyl phthalate	630	Not Detected	Not Detected	Not Detected
di-n-Octylphthalate	63	Not Detected	Not Detected	Not Detected
Fluoranthene	240	0.107 J	0.278 J	0.0153 J
Fluorene	240	Not Detected	0.0167 J	Not Detected
Hexachlorobenzene	0.078	Not Detected	Not Detected	Not Detected
Hexachlorobutadiene	1.2	Not Detected	Not Detected	Not Detected
Hexachlorocyclopentadiene	0.18	Not Detected	Not Detected	Not Detected
Hexachloroethane	1.8	Not Detected	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1	Not Detected	0.0608	Not Detected
Isophorone	570	Not Detected	Not Detected	Not Detected
Naphthalene	2	Not Detected	Not Detected	Not Detected
Nitrobenzene	5.1	Not Detected	Not Detected	Not Detected
N-Nitrosodimethylamine	0.002	Not Detected	Not Detected	Not Detected
N-Nitrosodi-n-propylamine	0.078	Not Detected	Not Detected	Not Detected
N-Nitrosodiphenylamine	110	Not Detected	Not Detected	Not Detected
Pentachlorophenol	1	Not Detected	Not Detected	Not Detected
Phenanthrene	--	Not Detected	0.200	Not Detected
Phenol	1900	Not Detected	Not Detected	Not Detected
Pyrene	180	0.0958 J	0.236 J	0.0116 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
Julia Hester House, Houston, Texas

		Location ID Sample ID Sample Date Depth Range (inches)	OFFSS-010 OFFSS-010-2-6-C-SH-20240606 6/6/2024 2 - 6	OFFSS-010 DUP-01-2-6-C-SH-20240606 6/6/2024 2 - 6	OFFSS-011 OFFSS-011-0-2-C-SS-20240606 6/6/2024 0 - 2
Parameter		EPA Residential Screening Level			
Polycyclic Aromatic Hydrocarbons (mg/kg) - EPA 8270E SIM					
1-Methylnaphthalene	18		Not Detected	Not Detected	Not Detected
2-Chloronaphthalene	480		Not Detected	Not Detected	Not Detected
2-Methylnaphthalene	24		Not Detected	Not Detected	Not Detected
Acenaphthene	360		Not Detected	Not Detected	Not Detected
Acenaphthylene	--		Not Detected	Not Detected	Not Detected
Anthracene	1800		Not Detected	0.00415 J	0.00390 J
Benzo(a)anthracene	1.1		0.0362 J	0.0307 J	0.0241
Benzo(a)pyrene	0.11		0.0407 J	0.0338 J	0.0238
Benzo(b)fluoranthene	1.1		0.0662 J	0.0515 J	0.0380
Benzo(g,h,i)perylene	--		0.0392	0.0318	0.0211
Benzo(k)fluoranthene	11		0.0232	0.0199	0.0143
Chrysene	110		0.0393 J	0.0327 J	0.0240
Dibenz(a,h)anthracene	0.11		0.00755 J	0.00598 J	0.00397 J
Fluoranthene	240		0.0984 J	0.0790 J	0.0607
Fluorene	240		Not Detected	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1		0.0360	0.0285	0.0180
Naphthalene	2		Not Detected	Not Detected	Not Detected
Phenanthrene	--		0.0400 J	0.0329 J	0.0251
Pyrene	180		0.0779 J	0.0648 J	0.0514
Semi-Volatile Organic Compounds (mg/kg) - EPA 8270E					
1,2,4-Trichlorobenzene	5.8		Not Detected	Not Detected	Not Detected
1,2-Dichlorobenzene	180		Not Detected	Not Detected	Not Detected
1,3-Dichlorobenzene	--		Not Detected	Not Detected	Not Detected
1,4-Dichlorobenzene	2.6		Not Detected	Not Detected	Not Detected
2,4,6-Trichlorophenol	6.3		Not Detected	Not Detected	Not Detected
2,4-Dichlorophenol	19		Not Detected	Not Detected	Not Detected
2,4-Dimethylphenol	130		Not Detected	Not Detected	Not Detected
2,4-Dinitrophenol	13		Not Detected	Not Detected	Not Detected
2,4-Dinitrotoluene	1.7		Not Detected	Not Detected	Not Detected
2,6-Dinitrotoluene	0.36		Not Detected	Not Detected	Not Detected
2-Chloronaphthalene	480		Not Detected	Not Detected	Not Detected
2-Chlorophenol	39		Not Detected	Not Detected	Not Detected
2-Nitrophenol	--		Not Detected	Not Detected	Not Detected
3,3'-Dichlorobenzidine	1.20		Not Detected	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	0.51		Not Detected	Not Detected	Not Detected
4-Bromophenyl phenyl ether	--		Not Detected	Not Detected	Not Detected
4-Chloro-3-methylphenol	630		Not Detected	Not Detected	Not Detected
4-Chlorophenyl phenyl ether	--		Not Detected	Not Detected	Not Detected
4-Nitrophenol	--		Not Detected	Not Detected	Not Detected
Acenaphthene	360		Not Detected	0.0127 J	Not Detected
Acenaphthylene	--		Not Detected	Not Detected	Not Detected
Anthracene	1800		Not Detected	0.0304 J	Not Detected
Benzidine	0.00053		Not Detected	Not Detected	Not Detected
Benzo(a)anthracene	1.1		0.0285 J	0.0863 J	Not Detected
Benzo(a)pyrene	0.11		0.0357 J	0.0678 J	0.0160 J
Benzo(b)fluoranthene	1.1		0.0508 J	0.107 J	0.0242 J
Benzo(g,h,i)perylene	--		0.0250 J	0.0248 J	0.0189 J
Benzo(k)fluoranthene	11		0.0173 J	0.0335 J	Not Detected
Benzyl butyl phthalate	290		Not Detected	Not Detected	Not Detected
Bis(2-Chloroethoxy) methane	19		Not Detected	Not Detected	Not Detected
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	0.23		Not Detected	Not Detected	Not Detected
Bis(2-Chloroisopropyl) ether	310		Not Detected	Not Detected	Not Detected
Bis(2-Ethylhexyl) phthalate	39		Not Detected	Not Detected	Not Detected
Chrysene	110		0.0322 J	0.0750 J	Not Detected
Dibenz(a,h)anthracene	0.11		Not Detected	Not Detected	Not Detected
Diethyl phthalate	5100		Not Detected	Not Detected	Not Detected
Dimethyl phthalate	--		Not Detected	Not Detected	Not Detected
di-n-Butyl phthalate	630		Not Detected	Not Detected	Not Detected
di-n-Octylphthalate	63		Not Detected	Not Detected	Not Detected
Fluoranthene	240		0.0669 J	0.238 J	0.0299 J
Fluorene	240		Not Detected	0.0121 J	Not Detected
Hexachlorobenzene	0.078		Not Detected	Not Detected	Not Detected
Hexachlorobutadiene	1.2		Not Detected	Not Detected	Not Detected
Hexachlorocyclopentadiene	0.18		Not Detected	Not Detected	Not Detected
Hexachloroethane	1.8		Not Detected	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1		0.0256 J	0.0288 J	Not Detected
Isophorone	570		Not Detected	Not Detected	Not Detected
Naphthalene	2		0.0241 J	Not Detected	Not Detected
Nitrobenzene	5.1		Not Detected	Not Detected	Not Detected
N-Nitrosodimethylamine	0.002		Not Detected	Not Detected	Not Detected
N-Nitrosodi-n-propylamine	0.078		Not Detected	Not Detected	Not Detected
N-Nitrosodiphenylamine	110		Not Detected	Not Detected	Not Detected
Pentachlorophenol	1		Not Detected	Not Detected	Not Detected
Phenanthrene	--		0.0274 J	0.139 J	Not Detected
Phenol	1900		Not Detected	Not Detected	Not Detected
Pyrene	180		0.0558 J	0.172 J	0.0264 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
Julia Hester House, Houston, Texas

Location ID Sample ID Sample Date Depth Range (inches)		OFFSS-011 OFFSS-011-2-6-C-SH-20240606 6/6/2024 2 - 6	OFFSS-011 OFFSS-011-6-12-C-SH-20240606 6/6/2024 6 - 12	OFFSS-012 OFFSS-012-0-2-C-SS-20240606 6/6/2024 0 - 2
Parameter	EPA Residential Screening Level			
Polycyclic Aromatic Hydrocarbons (mg/kg) - EPA 8270E SIM				
1-Methylnaphthalene	18	Not Detected	Not Detected	Not Detected
2-Chloronaphthalene	480	Not Detected	Not Detected	Not Detected
2-Methylnaphthalene	24	Not Detected	Not Detected	Not Detected
Acenaphthene	360	Not Detected	Not Detected	Not Detected
Acenaphthylene	--	Not Detected	Not Detected	Not Detected
Anthracene	1800	Not Detected	Not Detected	0.00311 J
Benzo(a)anthracene	1.1	0.0172	0.0125	0.0121 J
Benzo(a)pyrene	0.11	0.0278	0.0119	0.0112 J
Benzo(b)fluoranthene	1.1	0.0423	0.0223	0.0172 J
Benzo(g,h,i)perylene	--	0.0267	0.0107	0.0130 J
Benzo(k)fluoranthene	11	0.0133	0.00662 J	0.00663 J
Chrysene	110	0.0194	0.0135	0.0126 J
Dibenz(a,h)anthracene	0.11	0.00476 J	0.00222 J	Not Detected
Fluoranthene	240	0.0289	0.0270	0.0359 J
Fluorene	240	Not Detected	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1	0.0247	0.00915	0.00874 J
Naphthalene	2	Not Detected	Not Detected	Not Detected
Phenanthrene	--	0.00851	0.00665 J	0.0216 J
Pyrene	180	0.0253	0.0251	0.0279 J
Semi-Volatile Organic Compounds (mg/kg) - EPA 8270E				
1,2,4-Trichlorobenzene	5.8	Not Detected	Not Detected	Not Detected
1,2-Dichlorobenzene	180	Not Detected	Not Detected	Not Detected
1,3-Dichlorobenzene	--	Not Detected	Not Detected	Not Detected
1,4-Dichlorobenzene	2.6	Not Detected	Not Detected	Not Detected
2,4,6-Trichlorophenol	6.3	Not Detected	Not Detected	Not Detected
2,4-Dichlorophenol	19	Not Detected	Not Detected	Not Detected
2,4-Dimethylphenol	130	Not Detected	Not Detected	Not Detected
2,4-Dinitrophenol	13	Not Detected	Not Detected	Not Detected
2,4-Dinitrotoluene	1.7	Not Detected	Not Detected	Not Detected
2,6-Dinitrotoluene	0.36	Not Detected	Not Detected	Not Detected
2-Chloronaphthalene	480	Not Detected	Not Detected	Not Detected
2-Chlorophenol	39	Not Detected	Not Detected	Not Detected
2-Nitrophenol	--	Not Detected	Not Detected	Not Detected
3,3'-Dichlorobenzidine	1.20	Not Detected	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	0.51	Not Detected	Not Detected	Not Detected
4-Bromophenyl phenyl ether	--	Not Detected	Not Detected	Not Detected
4-Chloro-3-methylphenol	630	Not Detected	Not Detected	Not Detected
4-Chlorophenyl phenyl ether	--	Not Detected	Not Detected	Not Detected
4-Nitrophenol	--	Not Detected	Not Detected	Not Detected
Acenaphthene	360	Not Detected	Not Detected	0.168 J
Acenaphthylene	--	Not Detected	Not Detected	0.00620 J
Anthracene	1800	Not Detected	Not Detected	0.382 J
Benzidine	0.00053	Not Detected	Not Detected	Not Detected
Benzo(a)anthracene	1.1	0.0387 J	0.0136 J	0.799 J
Benzo(a)pyrene	0.11	0.0427 J	0.0130 J	0.688 J
Benzo(b)fluoranthene	1.1	0.0614	0.0190 J	0.912 J
Benzo(g,h,i)perylene	--	0.0348 J	0.0112 J	0.365 J
Benzo(k)fluoranthene	11	0.0240 J	Not Detected	0.348 J
Benzyl butyl phthalate	290	Not Detected	Not Detected	Not Detected
Bis(2-Chloroethoxy) methane	19	Not Detected	Not Detected	Not Detected
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	0.23	Not Detected	Not Detected	Not Detected
Bis(2-Chloroisopropyl) ether	310	Not Detected	Not Detected	Not Detected
Bis(2-Ethylhexyl) phthalate	39	Not Detected	Not Detected	Not Detected
Chrysene	110	0.0388 J	0.00931 J	0.736 J
Dibenz(a,h)anthracene	0.11	Not Detected	Not Detected	0.0919 J
Diethyl phthalate	5100	Not Detected	Not Detected	Not Detected
Dimethyl phthalate	--	Not Detected	Not Detected	Not Detected
di-n-Butyl phthalate	630	Not Detected	Not Detected	Not Detected
di-n-Octylphthalate	63	Not Detected	Not Detected	Not Detected
Fluoranthene	240	0.0804	0.0285 J	1.97 J
Fluorene	240	Not Detected	Not Detected	0.142 J
Hexachlorobenzene	0.078	Not Detected	Not Detected	Not Detected
Hexachlorobutadiene	1.2	Not Detected	Not Detected	Not Detected
Hexachlorocyclopentadiene	0.18	Not Detected	-	Not Detected
Hexachloroethane	1.8	Not Detected	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.1	0.0276 J	Not Detected	0.381 J
Isophorone	570	Not Detected	Not Detected	Not Detected
Naphthalene	2	Not Detected	Not Detected	0.0268 J
Nitrobenzene	5.1	Not Detected	Not Detected	Not Detected
N-Nitrosodimethylamine	0.002	Not Detected	Not Detected	Not Detected
N-Nitrosodi-n-propylamine	0.078	Not Detected	Not Detected	Not Detected
N-Nitrosodiphenylamine	110	Not Detected	Not Detected	Not Detected
Pentachlorophenol	1	Not Detected	Not Detected	Not Detected
Phenanthrene	--	0.0293 J	0.0156 J	1.56 J
Phenol	1900	Not Detected	Not Detected	0.0178 J
Pyrene	180	0.0737	0.0249 J	1.53 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
Julia Hester House, Houston, Texas

		Location ID	OFFSS-012
		Sample ID	OFFSS-012-2-6-C-SH-20240606
		Sample Date	6/6/2024
		Depth Range (inches)	2 - 6
Parameter	EPA Residential Screening Level		
Polycyclic Aromatic Hydrocarbons (mg/kg) - EPA 8270E SIM			
1-Methylnaphthalene	18	Not Detected	
2-Chloronaphthalene	480	Not Detected	
2-Methylnaphthalene	24	Not Detected	
Acenaphthene	360	Not Detected	
Acenaphthylene	--	Not Detected	
Anthracene	1800	Not Detected	
Benzo(a)anthracene	1.1	0.0245 J	
Benzo(a)pyrene	0.11	0.0284 J	
Benzo(b)fluoranthene	1.1	0.0457 J	
Benzo(g,h,i)perylene	--	0.0280	
Benzo(k)fluoranthene	11	0.0159	
Chrysene	110	0.0285 J	
Dibenz(a,h)anthracene	0.11	0.00506 J	
Fluoranthene	240	0.0834 J	
Fluorene	240	Not Detected	
Indeno(1,2,3-c,d)pyrene	1.1	0.0242	
Naphthalene	2	Not Detected	
Phenanthrene	--	0.0442 J	
Pyrene	180	0.0638 J	
Semi-Volatile Organic Compounds (mg/kg) - EPA 8270E			
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	Not Detected	
Benzo(a)pyrene	0.11	Not Detected	
Benzo(b)fluoranthene	1.1	Not Detected	
Benzo(g,h,i)perylene	--	Not Detected	
Benzo(k)fluoranthene	11	Not Detected	
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	Not Detected	
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	Not Detected	
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	--	Not Detected	
Phenol	1900	Not Detected	
Pyrene	180	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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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
Julia Hester House, Houston, Texas

		Location ID Sample ID Sample Date Depth Range (inches)	OFFSS-036 OFFSS-036-2-6-D-SH-20240615 6/15/2024 2 - 6	OFFSS-036 OFFSS-036-6-12-D-SH-20240615 6/15/2024 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	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	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:
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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
Julia Hester House, Houston, Texas

Location ID Sample ID Sample Date Depth Range (inches)		OFFSS-037 OFFSS-037-2-6-D-SH-20240615 6/15/2024 2 - 6	OFFSS-038 OFFSS-038-2-6-D-SH-20240615 6/15/2024 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	--	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	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
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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
Julia Hester House, Houston, Texas

		Location ID Sample ID Sample Date Depth Range (inches)	OFFSS-064 OFFSS-064-2-6-D-SH-20240724 7/24/2024 2 - 6	OFFSS-065 OFFSS-065-2-6-D-SH-20240724 7/24/2024 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	0.00349	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	0.00897	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	0.00827 J	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	0.00234 J	Not Detected	



Notes:
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EPA - United States Environmental Protection Agency
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TR - target risk

TABLE 3
Summary of Soil Sample Results - Volatile Organic Compounds
Julia Hester House, Houston, Texas

		Location ID	OFFSS-065
		Sample ID	DUP-01-2-6-D-SH-20240724
		Sample Date	7/24/2024
		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	
Bromobenzene	29	Not Detected	
Bromodichloromethane	0.29	Not Detected	
Bromoform	19	Not Detected	
Bromomethane	0.68	Not Detected	
Carbon Tetrachloride	0.65	Not Detected	
Chlorobenzene	28	Not Detected	
Chloroethane	540	Not Detected	
Chloroform	0.32	Not Detected	
Chloromethane	11	Not Detected	
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	
Hexachlorobutadiene	1.2	Not Detected	
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	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	
t-Butylbenzene	780	Not Detected	
tert-Butyl methyl ether	47	Not Detected	
Tetrachloroethylene (PCE)	8.1	Not Detected	
Toluene	490	Not Detected	
trans-1,2-Dichloroethene	7	Not Detected	
trans-1,3-Dichloropropene	1.8	Not Detected	
Trichloroethylene (TCE)	0.41	Not Detected	
Trichlorofluoromethane	2300	Not Detected	
Vinyl chloride	0.059	Not Detected	
Xylenes, total	58	Not Detected	

Notes:
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