

Parameter	Range (mg/kg)	Samples above detection Limit	Tier 1 Threshold	Number above Threshold
Fluoranthene	<0.3 to 6.6	3 of 33	100 ⁽²⁾	0
Pyrene	<0.3 to 5.3	3 of 33	NL	N/A
benz(a)anthracene	<0.3 to 2.4	1 of 33	50 ⁽²⁾	0
Chrysene	<0.3 to 2.9	1 of 33	50 ⁽²⁾	0
benzo(b)fluoranthene	<0.3 to 1.6	1 of 33	NL	N/A
benzo(k)fluoranthene	<0.3 to 2.2	1 of 33	50 ⁽²⁾	0
benzo(a)pyrene	<0.3 to 2.2	1 of 33	10 ⁽²⁾	0
Indeno(123-cd)pyrene	<0.3 to 1.4	1 of 33	50 ⁽²⁾	0
benzo(ghi)perylene	<0.3 to 1.2	1 of 33	100 ⁽²⁾	0
VOCs by GCMS				
Toluene	<0.2 to 0.8	1 of 11	130 ⁽³⁾	0
Ethyl benzene	<0.3 to 1.2	2 of 21	50 ⁽³⁾	0
m,p-Xylenes	<0.0002 to 0.0012	1 of 10	25 ⁽³⁾	0
o,p-Xylene	<0.2 to 0.0066	1 of 10	25 ⁽³⁾	0
Xylene	<0.4 to 7.9	1 of 11	25 ⁽³⁾	0
Isopropylbenzene	<0.8 to 0.0475	1 of 10	NL	N/A
n-Propylbenzene	<0.7 to 0.1327	1 of 10	NL	N/A
1,3,5 Trimethylbenzene	<0.6 to 0.0166	1 of 10	NL	N/A
Tert-butylbenzene	<0.9 to 0.0445	1 of 10	NL	N/A
Sec-Butylbenzene	<1.0 to 0.3282	1 of 10	NL	N/A
n-Butylbenzene	<1.9 to 0.2798	1 of 10	NL	N/A
Naphthalene	<2.6 to 0.6593	1 of 43	NL	N/A

Notes:

- (1). WSP Tier 1 Trigger Value based on typical clean up criteria adopted by Environment Agency and trigger value for "Special Waste" or "Controlled Waste" classification.
- (2). Dutch (C) Former Intervention Value
- (3). Dutch Intervention Value
- (4). NL is no level formulated for this determinand to date
- (5). All values are mg/kg

5.2.8 Soil Organic Contaminants – Assessment

The results indicate generally low concentrations of organic contaminants in soil across the site area with the exception of one exceedance of its threshold value for TPH (by IR) of 3455mg/kg in TP12. This location correlates with the backfilled pond as discussed in the previous section and appears to be an isolated issue. Associated with this 'hot-spot' are elevated concentrations of PAH.

Other areas of elevated concentrations of organic contaminants comprise:

- Elevated **TPH** (PRO, DRO, MRO, BTEX) and **VOC's** in WS08.
- Elevated **PAH** in WS11 and WS13.

These occurrences correlate with an AST farm for heating oil (APC 3: WS08), the former oil store (APC 10: WS11) and former fuelling post (APC 11: WS13). The contaminant