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Grenfell Investigation into Potential Land Contamination Impacts

Technical Note 18: Stage 2 Design

Royal Borough of Kensington and Chelsea

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Prepared by	Checked by	Verified by	Approved by
Simon Cole	David Dyson	David Dyson	Liz Philp

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Prepared for:

Royal Borough of Kensington and Chelsea

Prepared by:

AECOM Infrastructure & Environment UK Limited
Sunley House
4 Bedford Park, Surrey
Croydon CRO 2AP
United Kingdom

T: +44 20 8639 3500
aecom.com

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1. Introduction

This technical note sets out AECOM's recommendations for the design and scope of Stage 2 (referred to as Tier 2 in the ITT) of the investigation into potential land contamination impacts arising from the Grenfell Tower fire. The recommendations are based on a review of the works undertaken as part of Stage 1 (referred to as Tier 1 in the ITT) and reported in Technical Notes TN01 through TN17.

2. Context & Objectives

2.1 Statutory Requirements for Stage 2

The statutory guidance for Part 2A requires local authorities to inspect land for the purposes of identifying contaminated land (Department for Environment, Food and Rural Affairs (Defra), 2012b). The statutory guidance recognises two types of inspection; strategic, and detailed. In this case the guidance relative to detailed inspection is relevant. Detailed inspection should be prioritised for land considered most likely to pose the greatest risk to human health or the environment. Detailed inspection should only occur if it is considered that there is a reasonable possibility that a significant contaminant linkage (SCL) exists. An SCL is defined as a contaminant linkage which gives rise to a level of risk sufficient to justify a piece of land being determined as contaminated land (i.e. it poses an unacceptable risk to human health or the environment). With respect to human health and property, Part 2A defines unacceptable risk as a significant possibility of significant harm or the occurrence of significant harm. The local authority should carry out any intrusive investigation in accordance with relevant good practice guidance and should stop that investigation at any stage when information suggests that there is no longer a reasonable possibility that an SCL exists. The starting point is that land is not contaminated land unless there is reason to consider otherwise.

In terms of designing the investigation, it must be capable of providing the information necessary to inform the risk assessment required by the statutory guidance; that is the identification of the likelihood of harm and the scale and seriousness of that harm from one or more contaminant-pathway-receptor linkages by which a receptor might be adversely affected by the contaminants in question. The risks should only be considered in relation to the current use of the land (including temporary and informal use and reasonably likely future use within the bounds of current planning permission for the land), and the risk assessment should be relevant to the land in question and based on risk reasonably likely to exist, not on what is hypothetically possible.

The Part 2A regime is not intended to apply to land with levels of contaminants in soil that are commonplace and widespread and for which there is no reason to consider that there is an unacceptable risk. Normal levels of contaminants should not qualify the land as contaminated land unless there is a particular reason to consider otherwise, and therefore the investigation should be capable of identifying whether detected soil concentrations are "normal".

The statutory guidance defines four categories of land. The investigation should therefore be designed such that it is capable of providing the evidence necessary to decide which category the land meets and balances the data needs required to sufficiently identify and characterise the three components of a contaminant linkage: source, pathway, and receptor. Key defining elements of the four categories of land as they apply to human health include:

- Category 1 – land where a significant possibility of significant harm exists. Defined as an unacceptably high probability that significant harm would occur if no action is taken to stop it.
- Category 2 – land where there is a strong case for considering that the risks are of sufficient concern and for taking action under Part 2A on a precautionary basis.
- Category 3 – land where there isn't a strong case for action and the legal test for significant possibility of significant harm (unacceptable risk) is not met. This can include land where the identified risk is not low but regulatory intervention is not warranted. The strength of the case is measured by the predicted level of risk and the benefits and impacts of intervention.

- Category 4 – land where there is no risk, or the risk is low. This includes land where:
  - no contaminant linkage has been identified.
  - only normal levels of contaminants in soil are present.
  - soil concentrations do not exceed relevant generic assessment criteria.
  - estimated levels of exposure from soil are likely to form only a small proportion of exposure from other sources.

Finally, the statutory guidance recognises that the assessment of potentially contaminated land will involve uncertainty. It requires that uncertainty be minimised as far as relevant, reasonable and practical. It does not require all uncertainty to be removed; the statutory guidance requires local authorities to use their judgement to form a reasonable view of what it considers the risks to be on the basis of a robust assessment of the available evidence.

2.2 ITT Requirements for Stage 2

The overarching objectives for Stage 2 (specifically in relation to the design of Stage 2) are:

- Determine whether the levels of any contamination found potentially represent an unacceptable risk to health under Part 2A.
- Determine so far as possible the geographical extent of any significant contamination caused by the fire whilst recognising the potential for underlying (pre-fire) contamination.
- Provide recommendations for additional steps required, and/or whether any land appears to meet the definition of contaminated land, under Part 2A.
- Undertake the works in accordance with the UK Government's online 'Land Contamination: Risk Management' guidance.
- Complete the generic and detailed quantitative risk assessments required under Part 2A to establish whether there are unacceptable risks to human health.
- Stage 1 was restricted to soil sampling; Stage 2 should consider the sampling of other potentially contaminated media (where this is relevant and/or beneficial based on the outcome of Stage 1).

2.3 Relevant Guidance

The recommendations are intended to reflect the relevant guidance contained within the following British Standards and regulatory guidance:

- BS 10175:2011+A2:2017. Investigation of potentially contaminated sites – Code of practice, British Standards Institution Publication. (British Standards Institute, 2017).
- BS ISO 18400-101:2017. Soil quality – Sampling. Part 101: Framework for the preparation and application of a sampling plan, British Standards Institution Publication, 2017 (British Standards Institute, 2017a).
- BS ISO 26367-1:2017. Guidelines for assessing the adverse environmental impact of fire effluents. Part 1: General, British Standards Institution Publication, 2017 (British Standards Institute, 2017b).
- BS ISO 26367-2:2017. Guidelines for assessing the adverse environmental impact of fire effluents. Part 2: Methodology for compiling data on environmentally significant emissions from fires, British Standards Institution Publication, 2017 (British Standards Institute, 2017c).
- Model Procedures for the Management of Land Contamination. CLR11 (Environment Agency, 2004).

Should additional pertinent legislation or guidance be released prior to the commencement of the Stage 2 investigation, this should be considered and if required incorporated into the Stage 2 design.

3. Evidence from the Stage 1 desk-based research

The desk-based research has focused on identifying potential fire effluents that could be present in soil as result of the fire, what their toxicity is, and what their likely fate in the environment might be. This has resulted in the selection of the chemicals of potential concern (COPC listed in Table TN04-02).

Evidence on the land-use history of the local area has identified a number of potentially contaminative historic land-uses. In addition to these is the impact of shell damage from World War 2, and the normal cycle of building demolition and redevelopment that occurs in urban areas that can leave building material-related contaminants in the ground post redevelopment (for example asbestos). Ground investigation data submitted as part of planning applications for redevelopment in the area indicates that elevated concentrations of some COPC (for example lead and PAHs) were present in the soil in the local area before the fire. The limitation of this data however is that the reported samples are typically from greater depths than those relevant for this study i.e. ≥0.5m. Evidence from national and regional surveys of urban soils have also identified the normal presence of a number of COPC (including lead, PAHs, PCBs and dioxins and furans).

Evidence from the community and other organisations on the distribution of fire debris indicates that the land area affected may be delineated by a 300m radius around the Tower, plus an area extending to at least 1km in a north-westerly direction (i.e. the direction of the wind at the time of the fire). This is illustrated in Figure TN14-1 which is reproduced below.

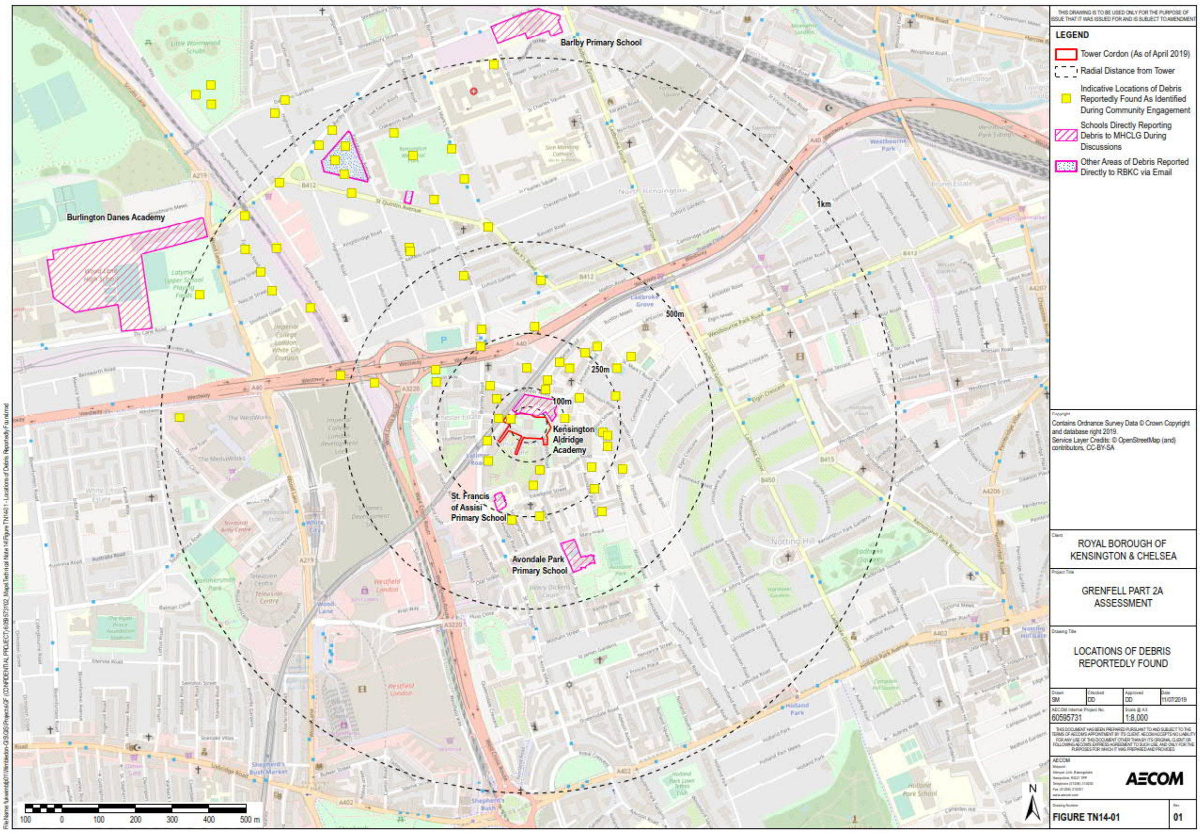


Figure TN18-1. Copy of Figure TN14-1 showing the locations where debris has been reported to have fallen

The Met Office predictive modelling of the smoke plume emitted during the fire has produced an estimate of the land area where smoke particulates may have landed, noting that this modelling only provides a relative measure of particulate deposition, not absolute values. The modelling has been constrained to a 5km distance from the Tower and predicts that the highest levels of deposition may have occurred to the northwest of the Tower at distances of 1km and again at 2-5km. The modelling predictions for the heaviest particles (100µm particles with a density of 1500g/cm^3) are reproduced below. It is important to note that the Met Office modelled a series of particle sizes, densities and shapes separately. In practice the smoke particles would have been distributed across a range of shapes and sizes and it is not known what proportion of that distribution particles of one size, shape and density would be. Therefore, the modelling only provides an indication of where particles may have landed.

The Met Office modelling indicates that smoke deposition was potentially heaviest in areas to the north west of the London Borough of Hammersmith and Fulham, the north east of the London Borough of Ealing, and a southern area of the London Borough of Brent.

In comparing Figure TN18-1 with Figure TN18-2 it is evident that the reported observations of debris do appear to concur with the predicted areas of higher deposition within the 1km radius, noting that the debris will have been much larger and likely less dense than the 100µm particles modelled. What is not known is what source of potential fire effluents will have contributed the most to potentially resultant soil contamination – the debris, or the smoke particles. On the one hand the fallen debris could be of greater mass per unit area of ground. However, in most cases, this is expected to have been cleaned up before it became entrained into the soil profile, and therefore the proportion remaining in the soil could be small. Conversely the deposited mass of smoke particles per unit area of ground could be much less but is much less likely to have been cleaned up and therefore much more likely to have become entrained in the soil profile.

In considering the potential contribution from both debris and smoke particles it is considered reasonable in the design of Stage 2 to assume that soil samples taken from within the 1km radius to the northwest of the Tower should provide enough indication of potential fire effluent contamination and resultant COPC soil concentrations.

Figure TN18-2. Copy of Figure 9f and Figure 10f from Met Office report FRTR 637

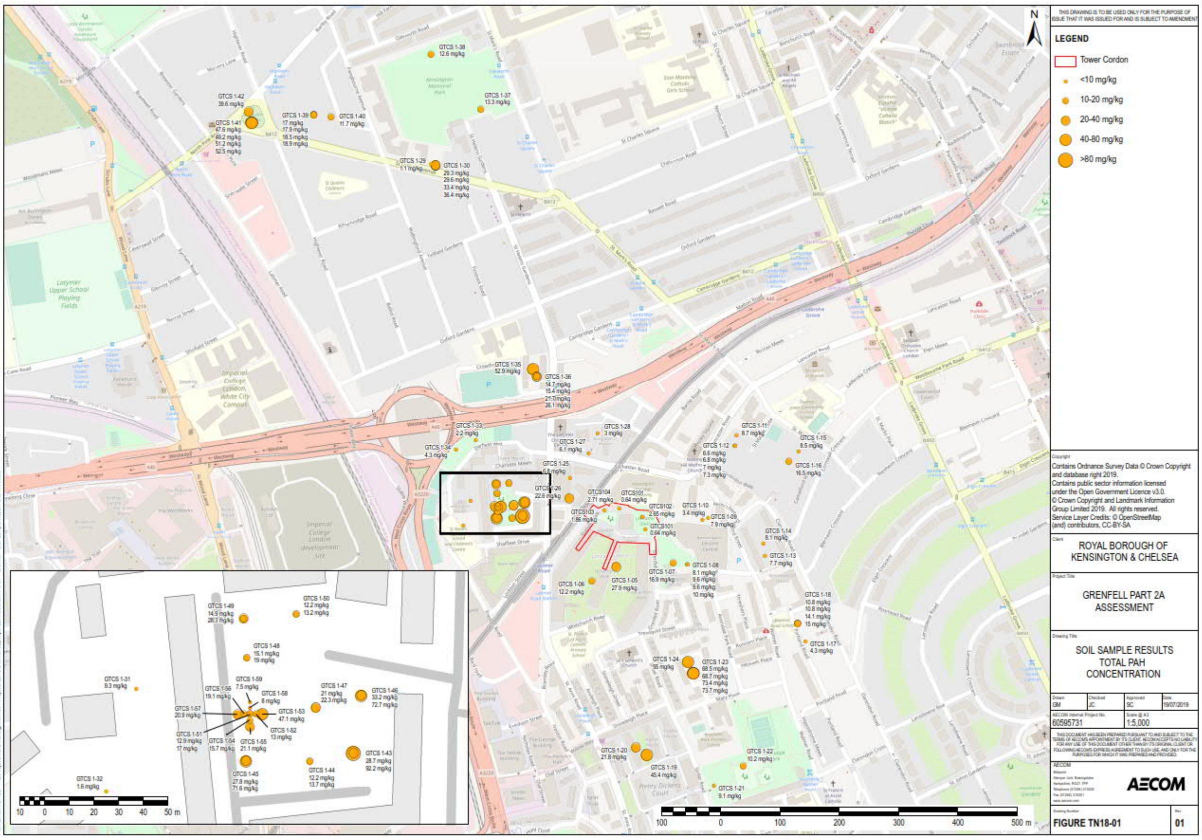
4. Evidence from the Stage 1 exploratory sampling

Exploratory soil sampling has been undertaken within the current cordon of the Tower, and in nineteen areas of public open space within a 1km radius of the Tower. This was supplemented by additional sampling in one other area as part of the pilot study (detailed in Section 5).

A shallow soil sample was taken from two randomly chosen locations in each area, with the areas located within the 300m debris radius, within areas further to the northwest of the Tower, and outside the 300m debris radius to the east and south for comparison.

The soil sampling encountered a range of soil conditions that are evidenced in Table TN15-6. The soil was typically brown gravelly, silty and clayey sand with occasional brick, plastic, metal, concrete, wood, clinker, coal, paper, tarmac, glass, ceramics, fabrics, wood and ash (noted that ash is reported in a number of samples). Possible cladding debris was noted at location GTCS-26 and GTCS-12, charred material was reported at GTCS-31, and white ashy material was noted in soil at GTCS-32. Black-grey ashy debris was reported at GTCS-05 and grey porous debris noted at GTCS-06 and GTCS-07. A complete list of observations of potential fire debris is given in Table TN15-8.

The reported concentrations of COPC in the soil samples do not produce a discernible spatial pattern. The figures below provide an indication of that absence of pattern, using PAHs and brominated dioxins and furans as examples. PAHs have been chosen because they are a potential fire effluent and are likely to be present in the soil before the fire; brominated dioxins and furans because they are a potential fire effluent but are less likely to have been present in the soil before the fire due to the only more recent use of brominated chemicals in building and household materials.



N.B. – The first sample concentration listed at each Waynflete Square location is for the 0-0.05m depth sample. The second sample concentration at each location is for the 0.1-0.15m depth sample.

Figure TN18-3. Spatial distribution of PAH 16 Total soil concentration in exploratory samples

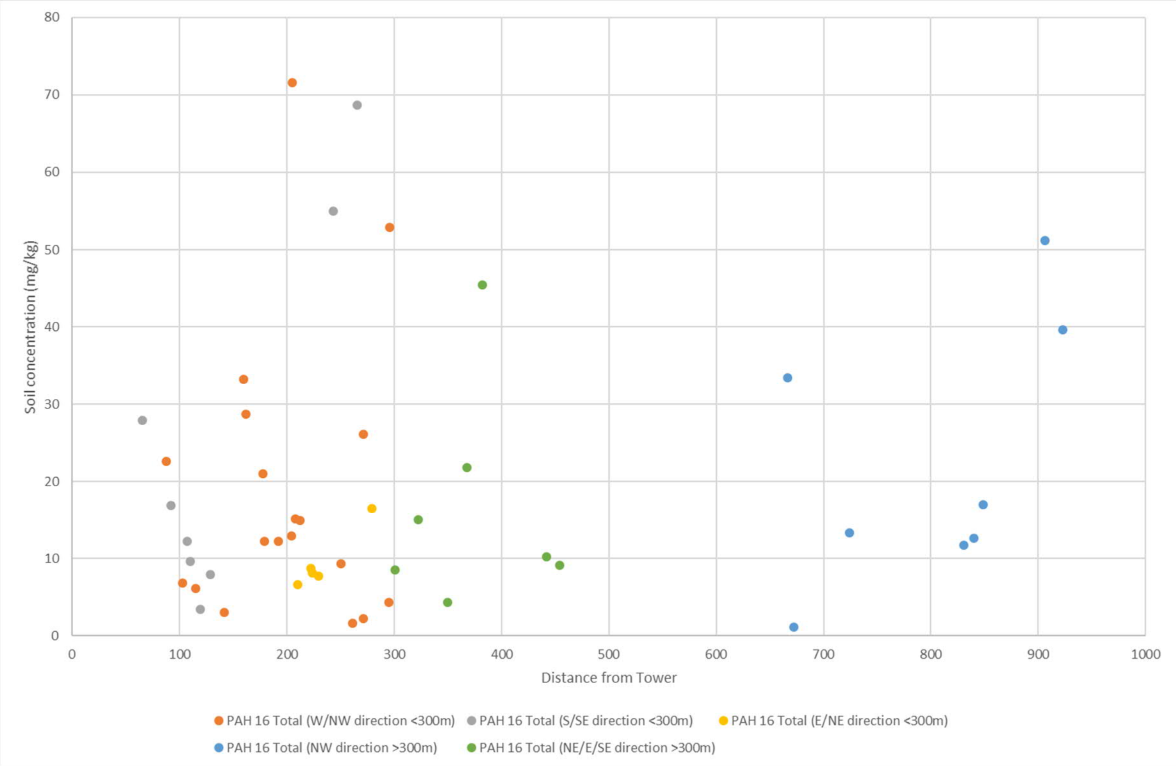


Figure TN18-4. PAH 16 Total soil concentrations plotted against distance from Tower

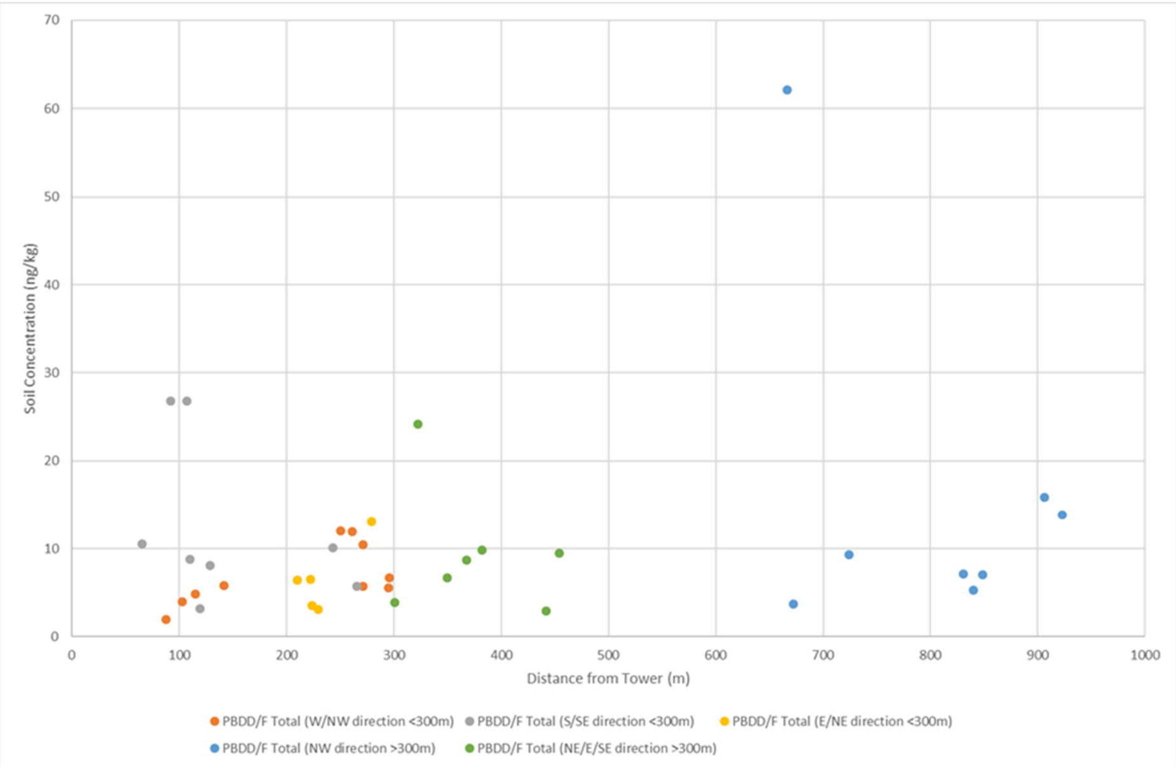


Figure TN18-5. Brominated dioxins and furans (total) soil concentrations plotted against distance from Tower

The lack of a clear spatial pattern does not match the findings of (Stec, et al., 2019) which indicates that soil concentrations of COPC might decrease substantially somewhere between 140m and 300m away in a north westerly direction from the Tower.

The cordon samples were sampled and tested before the final analytical specification was developed so some of the fire effluent COPC were not tested for in those samples. However, reported concentrations of PAHs and chlorinated dioxins and furans for example tend to be lower than those detected outside the cordon. It is not known why this is the case, and there are a number of possible (untested) explanations for this:

1. The fire water washed the COPC from the surface soil tested.
2. The area was reported to have been littered with debris after the fire – this debris was cleared up and very little debris-derived COPC were left in the soil post clean-up.
3. The shallow soil around the tower had been replaced at some time before the fire and therefore does not contain as much of the diffuse urban pollutants as other soil tested where that soil has been in -situ for a longer period of time.

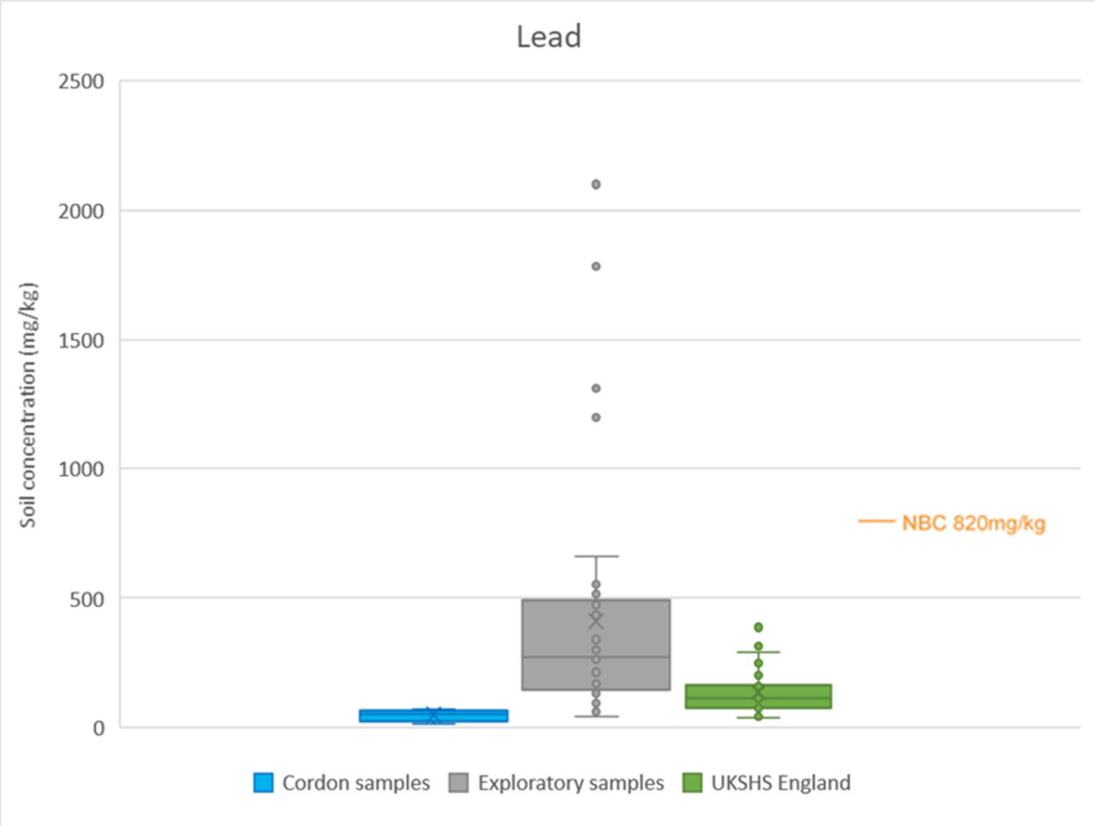
The analytical results from the exploratory soil samples have been compared against GSC protective of human health (refer to Table A appended). COPC for which one or more reported soil concentrations exceed those SGC are:

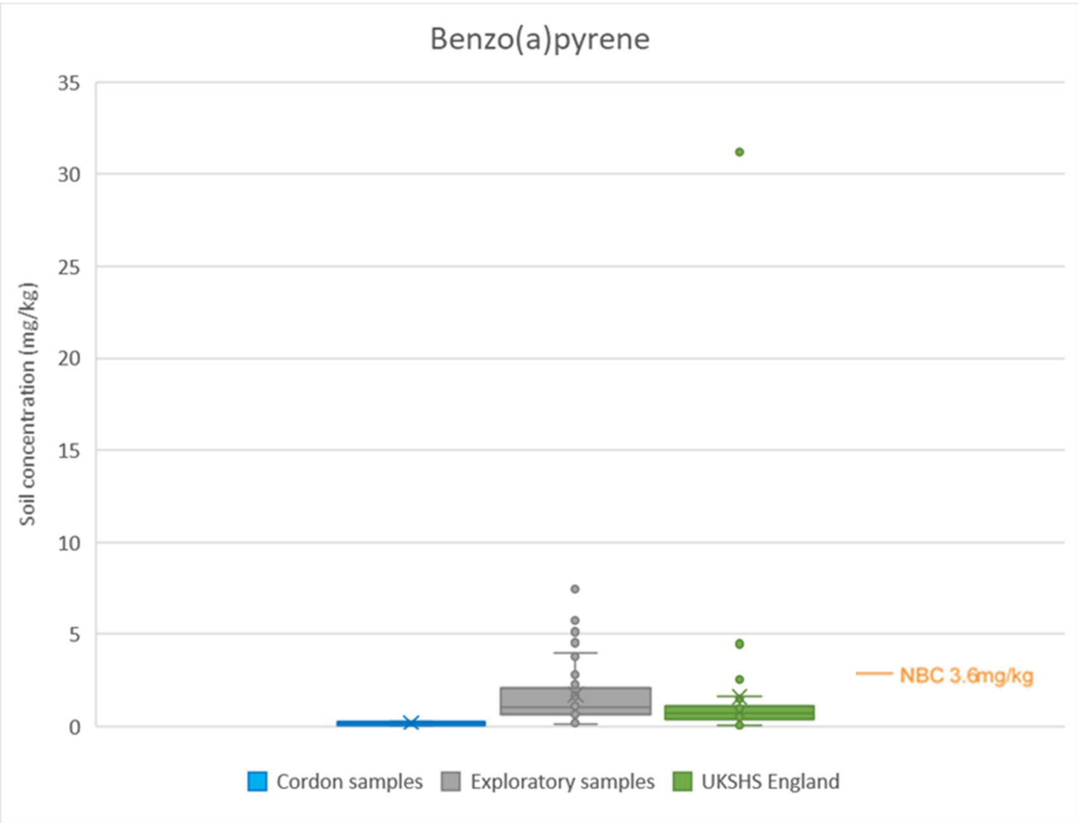
- Arsenic, barium, beryllium, cadmium, lead, zinc, chloromethane, cresols, and PAHs (benzo(a)pyrene as a marker).

Precautionary estimates of dioxin and furan exposure fall below the tolerable daily soil intake (TDSI) (refer to TN8 for explanation) adopted by the EA in the derivation of the SGV in 2009. The FSA has advised not to adopt the more recent EFSA TWI at this stage given EFSA's recommendation to review the TEF for PCB-126. Further guidance (if relevant) will be issued by the FSA once the WHO review of the entire dioxin TEF system (driven by EFSA's comments for PCB-126) has been completed.

Brominated flame retardants that have been tested for have not been detected in the soil samples analysed. One organophosphate ester flame retardant has been detected in eight samples (four of which are duplicates for one sample location) with the maximum reported concentration 220 times lower than the guideline level. One isocyanate compound has been detected in one of the four duplicate samples taken from one sample location, with the reported soil concentration 2,300,000 times lower than the GSC.

The reported concentrations of PAHs and dioxins and furans appear to be similar to those in published surveys of urban soils, those for PAHs and lead potentially slightly higher than for England as a whole (UKSHS & SP1008) – but this needs to be supported by more detailed data analysis. Data analysis published by (Lark & Scheib, 2013) on the spatial distribution of soil lead concentrations in London suggests that lead concentrations in North Kensington might be expected to range from 260-665mg/kg. This compares to the normal background concentration (NBC) for the urban domain for England of 820mg/kg. Similarly, (Vane, et al., 2014) studied a 19km^2 area of east London and determined that PAH (sum of US EPA 16) concentrations ranged from 4 to 67mg/kg with a mean of 18mg/kg. The authors calculated an NBC for benzo(a)pyrene of 6.9mg/kg (this comparing with the NBC for the urban domain for England of 3.6mg/kg). Comparison of the exploratory sample data with the UKSHS (Environment Agency, 2007a) (Environment Agency, 2007b) and Defra NBC data (DEFRA, 2012b) is illustrated in the box and whisker plots below:


Lead
2500
2000
1500
1000
500
0
Soil concentration (mg/kg)
NBC 820mg/kg
Cordon samples
Exploratory samples
UKSHS England


Benzo(a)pyrene
35
30
25
20
15
10
5
0
Soil concentration (mg/kg)
NBC 3.6mg/kg
Cordon samples
Exploratory samples
UKSHS England

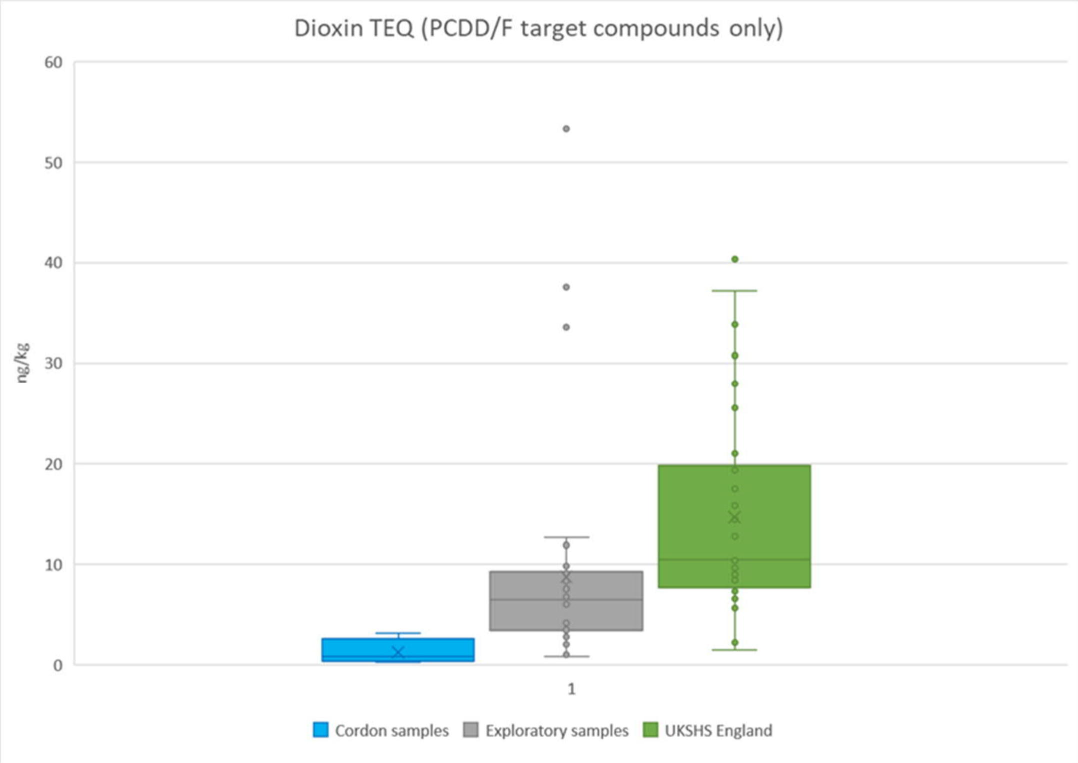


Figure TN18-6. Exploratory soil sample concentrations distributions

Asbestos and synthetic vitreous fibres were detected at low levels in a number of samples. It is not known whether these originated from the fire or were already present in the ground as a result of alternative urban sources. Health risk assessment was carried out for the asbestos encountered in soils at similarly low levels in Waynflete Square from the pilot study, reported in TN17. This concluded that the risk to human health was low.

The duplicate sample data suggest that the soil sampling protocol involving the removal and mixing of soil from a 0.5m x 0.5m square sampling area provides a sufficiently representative sample for analysis by minimising variability in sample analytical results. The analytical results from the two locations sampled in each area however suggest that there can be sufficient spatial variability in soil concentrations within areas such that individual location results may not be representative of the range and average concentrations present in each area.

5. Evidence from the pilot study

The pilot study utilised two sampling patterns:

1. A 20m square grid pattern of sampling that resulted in nine sample locations across the area, with two soil samples collected at each location at a depth of 0-5cm (consistent with the exploratory sampling) and at a deeper depth of 10-15cm.
2. A radial pattern of samples from one of these grid locations, with samples taken at 2.5m and 5m distances from the centre sample in a north, south, east and west direction. Samples were taken at a single depth (0-5cm) from these eight locations.

The soil data acquired from this suggests that nine samples (and/or a 20m grid) is potentially the minimum number necessary to adequately characterise an area such as Waynflete Square. The reported results included some relatively higher concentrations of COPC including lead, PAH compounds and dioxins, furans & dioxin-like-PCBs. These higher concentrations skew the data and increase the uncertainty in the average concentrations and therefore likely receptor exposure. The radial samples indicated that the concentrations only started to vary more considerably at a sample separation distance of 5m.

The reported soil concentrations from the deeper samples were at times higher than those reported in the shallower samples. Different ground conditions were encountered at the two sampling depths and it is possible but not proven that this is the cause of the differences. The alternative possibility is that the chemicals detected at 10-15cm have migrated vertically from the surface.

The Part 2A risk assessment carried out using the pilot study dataset concluded that the land met the definition of Category 4.

6. Evidence from the preliminary risk assessment

The PRA (TN16) has identified a short-list of potential significant contaminant linkages (pSCLs) that warrant consideration for further investigation and assessment at Stage 2. These are summarised in Table TN18-01 below.

The linkages listed in Table TN18-01 have been identified on the basis that they pose a reasonable possibility of a significant contaminant linkage (SCL) in accordance with the approach and methodology described in TN16.

Table TN18-01. Summary of Potential SCLs as identified in TN16

Sources		Pathways		Receptors	
S1	Lead	P1	Ingestion of soil and indoor dust	R1	Residents
		P5	Consumption of produce and attached soil		
S2	Polycyclic Aromatic Hydrocarbons and associated SVOCs	P1	Ingestion of soil and indoor dust	R1	Residents
		P3	Dermal contact with soil (outdoor)		
		P4	Dermal contact with soil derived dust (indoor)		
		P5	Consumption of produce and attached soil		

Contaminant linkages associated with asbestos were also identified by the PRA as linkages that could warrant further investigation on the basis of uncertainty as opposed to evidence of a reasonable possibility of a SCL.

7. Justification for further investigation under Part 2A

The statutory guidance for Part 2A sets out a number of tests for initiating, continuing, or stopping the investigation of suspected contaminated land. These are set out in Table TN18-02 below alongside commentary on the supporting information acquired from Stage 1 of the Grenfell Investigation into Potential Land Contamination Impacts.

This is consistent with the methodology described in TN16, and Table TN18-03 below summarises the TN16 prioritisation matrix and how it links to the Statutory Guidance justifications for further assessment.

The justification for further investigation must be consistent with the overarching objectives of Part 2A, namely (paragraph 1.4):

1. To identify and remove unacceptable risks to human health and the environment.
2. To seek to ensure that contaminated land is made suitable for its current use.
3. To ensure that the burdens faced by individuals, companies and society as a whole are proportionate, manageable and compatible with the principles of sustainable development.

Other considerations set out in the statutory guidance are:

- Land is not contaminated land unless there is reason to consider otherwise (paragraph 1.3).
- Where there is unavoidable uncertainty the authority should use its judgement to strike a reasonable balance between (a) dealing with risks raised by contaminants in land and the benefits of remediating land to remove or reduce those risks, and (b) the potential impacts of regulatory intervention including financial costs to whoever will pay for the remediation, health and environmental impacts of taking action, property blight, and burdens on affected people (paragraph 1.6).
- Authorities should take a precautionary approach to the risks raised by contamination, whilst avoiding a disproportionate approach given the circumstances (paragraph 1.6).

The Grenfell Investigation is a detailed inspection activity as defined by the statutory guidance (i.e. the authority has identified based on its strategic assessment criteria that there is a reasonable possibility that a significant contaminant linkage (as defined in paragraphs 3.8 and 3.9 of the statutory guidance) exists. Paragraphs 3.8 and 3.9 define a significant contaminant linkage as a contaminant linkage which gives rise to a level of risk sufficient to justify a piece of land being determined as contaminated land. A contaminant linkage is the relationship between a contaminant, a pathway and a receptor. For a linkage to exist, all three elements must be present. Land cannot be considered to potentially be contaminated land under Part 2A unless all three elements of a contaminant linkage exist, including evidence of the actual presence of contaminants.

Table TN18-02. Justification for Further Investigation under Part 2A

Statutory Guidance paragraph number	Statutory Guidance Requirement	Additional Considerations in Statutory Guidance	Consequence for Grenfell Investigation
2.13	If at any stage the local authority considers, on the basis of the information obtained from inspection activities, that there is no longer a reasonable possibility that a significant contaminant linkage exists on the land, the authority should not carry out any further inspection in relation to that linkage.	N/A	The PRA identifies a reasonable possibility of a significant contaminant linkage for lead and PAHs only, on the basis of reported soil concentrations in excess of screening criteria and normal urban background concentrations. Further investigation is only justified for lead and PAHs on this basis alone. [Note: the statutory guidance does not define “reasonable possibility” and the term suggests a higher than minimal or negligible possibility but not necessarily so high a probability as “more likely than not”. A “reasonable possibility” therefore could be a “significant possibility” but requires further assessment before that judgement can be made.]
3.13	For land to proceed to the next stage of risk assessment there should be evidence that an unacceptable risk could reasonably exist. If there is little reason to consider that the land might pose an unacceptable risk, inspection activities should stop at that point having regard to paragraphs 5.2-5.4.	An unacceptable risk for human health is defined by the statutory guidance as either significant harm to human health or the significant possibility of significant harm (SPOSH). For the authority to determine land as contaminated land on the basis of significant harm it must be satisfied on the balance of probabilities (i.e. more likely than not) that significant harm is being caused by a significant contaminant (para 4.4). The definition for SPOSH is linked to the definitions of Category 1 and Category 2 land, and specific consideration of the estimated impact of the significant harm (nature and seriousness of the harm and number of people affected), the estimated probability that the significant harm might occur, and the strength of evidence underlying the risk estimate (paras 4.11-4.12). Category 1 land is defined as that where it is considered there is an unacceptably high probability that significant harm would occur if no action is taken to stop it (para 4.19). Category 2 land is defined as that where there is a strong case for considering that the risks from the land are of sufficient concern that the land poses a SPOSH, and there is a strong case for taking action under Part 2A on a precautionary basis (para 4.25).	There is no evidence that significant harm is occurring or has occurred as a direct result of one or more of the contaminants identified in soil, and no evidence that significant harm has occurred elsewhere as a result of similar land or degrees of exposure to identified contaminants. There is no strong case for considering that the reported soil concentrations for contaminants pose a SPOSH with the exception of lead and PAHs, where a reasonable possibility of SPOSH remains at the current point of assessment. There is therefore no strong evidence that an unacceptable risk could reasonably exist, and therefore little reason to continue the inspection process for contaminants other than lead and PAHs on this basis alone.

Statutory Guidance paragraph number	Statutory Guidance Requirement	Additional Considerations in Statutory Guidance	Consequence for Grenfell Investigation
		A lack of absolute certainty in the exact contamination status of any land should not stop an authority from deciding that land is not contaminated land. This does not preclude scientific understanding changing with time (para 5.3).	
3.14	If it becomes apparent during the course of detailed inspection of the land that the assumptions that led to the prioritisation of the land prove to be incorrect, and that the risks posed by the land are lower than expected, the authority should consider whether to proceed with its inspection. As soon as it becomes clear that the land is unlikely to be contaminated land, the inspection and risk assessment should be brought to an end.	Land that is not contaminated land is land that is not causing significant harm nor poses a SPOSH. Such land is defined as either Category 4 land or Category 3 land. Category 4 land is defined as land that poses no risk or where the level of risk posed is low. This includes land where no relevant contaminant linkage is present, land where the are only normal levels of contaminants present, land where contaminant levels do not exceed relevant generic assessment criteria, land where the estimated levels of exposure to contaminants in soil are likely to form only a small proportion of what a receptor might be exposed to, or land where a detailed quantitative risk assessment shows that the level of risk posed is sufficiently low (para 4.21). Category 3 land is land where the strong case described for Category 2 does not exist. It can include land where the risks are not low but regulatory intervention under Part 2A is not warranted (para 4.25). The decision for Category 3 can be made on the basis of estimated impact, likelihood, timescale and certainty (i.e. strong case) (para 4.26), or on the basis of a broad consideration of likely direct and indirect health benefits and impacts of regulatory intervention and an estimate of what remediation would entail (para 4.27).	The majority of COPC were either not detected or detected at concentrations that were either below the identified GSC protective of health, and/or below normal background concentrations (i.e. within the range expected for urbans soils in England and specifically London). Based on the current evidence for these COPC it is therefore unlikely that the land is contaminated land. On this basis alone the inspection and risk assessment process could be brought to an end for these COPC, which include: brominated flame retardants, isocyanates, phosphate ester flame retardants, VOCs (excluding chloromethane), asbestos and SVF, non dioxin like PCBs, cyanides, metals (other than lead), chloromethane, dioxins, furans & dioxin-like PCBs, cresols.
3.31	The authority should seek to minimise uncertainty as far as it considers to be relevant, reasonable and practical; and it should recognise remaining uncertainty, which is likely to exist in almost all cases, and the effect of that on its conclusions.	N/A	Certain COPC have not been detected in samples taken during Stage 1 and the analytical detection limit for these COPC is significantly lower than the health-based screening criteria. It is therefore very unlikely that further investigation would identify higher concentrations that would not only exceed those screening criteria but exceed them by such a margin as to pose a SPOSH. The uncertainty for these COPC is therefore insufficient to justify further investigation of these COPC. e.g. brominated flame retardants, isocyanates. For other COPC, they have been detected in only a small number of samples, and at concentrations that are below the

Statutory Guidance paragraph number	Statutory Guidance Requirement	Additional Considerations in Statutory Guidance	Consequence for Grenfell Investigation
			screening criteria. The evidence for considering that further investigation will identify higher concentrations that could pose a SPOSH is therefore weak and does not justify further investigation. E.g. phosphate ester flame retardants, VOCs (excluding chloromethane) The remaining COPC can be divided in to three categories: those that have been detected in the majority of samples but at concentrations below the screening criteria; those that have been detected in the majority of samples and a small number of reported concentrations have exceeded the screening criteria; and those that have been frequently detected at concentrations exceeding the screening criteria. The latter category is captured by the test for a reasonable possibility of significant contaminant linkage existing and evidence that an unacceptable risk could reasonably exist and captures the COPC lead. The two remaining categories are those where the significance of the data uncertainty is least known. Further investigation could be justified under Part 2A on the basis of reducing the identified uncertainty in the health risk posed by these COPC. Where reported concentrations of COPC have been reported in the majority of samples but at concentrations below the screening criteria, these COPC should only be considered as part of further investigations if the available data suggests a high degree of variability in the data and/or the concentrations are close to the screening criteria (as opposed to COPC that are commonly detected but at concentrations orders of magnitude lower than the screening values) (for example dioxins and furans). Where some reported concentrations of common COPC exceed the screening criteria (e.g. PAHs), these COPC should be considered as part of further investigation as there is some (albeit limited) evidence that a SCL might exist in an area.

Based on the specific Part 2A Statutory Guidance considerations above, the COPC identified from the evidence reviews, exploratory sampling and pilot study have been categorised in accordance with the TN16 prioritisation presented in the EA/PHE methodology document (refer to TN16). This is shown in Table TN18-03 below.

Table TN18-03. COPC classification

Prioritisation (refer to TN16)	Priority Group Description			COPC
Lowest	Most if not all results less than suitable method detection limits (MDL) and/or sample depth and location inconsistent with potential exposure pathways			Brominated flame retardants, phosphate ester flame retardants, isocyanates, VOCs (excluding chloromethane), asbestos and SVF, non dioxin like PCBs.
Low	Most results above MDL and sample depth and location consistent with potential exposure pathways, but no indication of spatial patterns or hot spot consistent with fire emissions	All results at or below a relevant GSC	All results considered to be within typical background levels	Cyanides, metals (other than lead), chloromethane, dioxins, furans & dioxin-like PCBs, cresols
Medium	Most results above MDL and sample depth and location consistent with potential exposure pathways, but no indication of spatial patterns or hot spot consistent with fire emissions	Some results well-above a relevant GSC	Some results above typical background levels	Lead, PAHs (with BaP as a surrogate marker)
High	Results above MDL and sample depth and location consistent with potential exposure pathways. Results indicate a strong spatial pattern and/or hot spot(s) that are consistent with fire emissions	Majority of results above relevant GSC and many results well-above a relevant GSC	Majority of results above typical background levels	None
Highest	Results above MDL and sample depth and location consistent with potential exposure pathways. Results indicate of a strong spatial pattern or hot spot that is consistent with fire emissions	Majority of results well-above a relevant GSC	Majority of results well-above typical background levels	None

COPC within the medium, high and highest priority categories are those that meet the requirements for further investigation under Part 2A of the EPA, excluding any specific consideration of uncertainty, which can also be used to elevated linkages for inclusion in further assessment. The inclusion of COPC linkages based on uncertainty is addressed further in Section 8 below.

8. Considerations for the design of Stage 2

The considerations discussed below comprise a combination of scientific evidence from the Stage 1 investigation and potential policy driven considerations for the regulatory bodies. With respect to the scientific evidence considered within the framework of Part 2A, two key considerations include:

- Contaminant linkages with a reasonable possibility of being significant should be considered for further investigation at Stage 2 (this is equivalent to those linkages defined as having a medium (or higher) priority in Table TN18-03 above).
- Contaminant linkages with a high level of uncertainty in the scientific evidence should be considered for further investigation at Stage 2.

The exploratory sampling has not provided robust evidence for the presence of significant contaminant linkages associated with the deposition of debris and smoke particulates from the Grenfell Tower fire. The COPC that have been identified at potentially elevated concentrations relative to GSC and/or expected urban background levels are ubiquitous in the urban environment. These COPC, lead and PAHs, are identified as medium priority for further investigation in Table TN18-03 above, and are considered to have a reasonable possibility of being associated with a significant contaminant linkage.

However, given the constrained scope of the exploratory sampling and its objective to identify COPC for Stage 2 sampling, rather than to inform all stages of the Part 2A quantitative risk assessment process, Part 2A permits the inclusion of additional COPC in further investigation at Stage 2 with the aim of reducing the uncertainties in the current data (paragraph 3.31 of the statutory guidance). These additional COPC could include dioxins, furans, and dioxin-like polybiphenyls, and asbestos because of their direct association with fire emissions, their common detection in exploratory samples and the potential ability to use these COPC as markers for the potential presence of other fire effluents. Other fire effluents tested for have been rarely (if at all) detected and do not warrant inclusion in Stage 2 as there is not a reasonable possibility of an SCL associated with these compounds.

Not all possible flame-retardant chemicals were tested for at Stage 1 – for example not all of the poly brominated biphenyls (PBBs), not deca-PBDE, nor any brominated diphenyl ethanes. However, the absence of detectable concentrations of the PBDEs and PBBs that were tested for, coupled with the very low concentrations of brominated dioxins and furans detected, suggests that these substances are unlikely to be chemicals of concern. Polyfluorinated Alkyl Substances (PFAS) associated with non-stick surfaces on cookware, waterproof coatings on fabrics and stainproof coatings on carpets and upholstery, and mixed halogenated dioxins and furans were also not tested for at Stage 1.

It is considered reasonable to assume for the purposes of the design of Stage 2 that the quantity of the untested chemicals would not be significantly different to that of the tested chemicals (given the similarities in use of these chemicals in household items), such that the tested chemicals should be reasonable indicators of the similar presence of untested chemicals.

In designing the Stage 2 soil sampling exercise, consideration has been given to a number of factors in addition to the selection of COPC. These are detailed in Table B appended to this Technical Note. Those that have been taken forward to the suggested design for Stage 2 are detailed in Table TN18-04 below:

Table TN18-04. Factors considered in design of Stage 2 Sample Plan

Factor	Decision	Included? Yes/No
Investigation area for Stage 2	Given the lack of spatial pattern to the COPC concentrations from the exploratory sampling, and the classification of Waynflete Square as Category 4 land, there is no robust evidence to support the expansion of the investigative area beyond that assessed at Stage 1. Locations outside the 1km radius could be sampled on a precautionary basis and to provide evidence to support this decision. These locations outside the 1km radius could include the area of the allotments	N/A

Factor	Decision	Included? Yes/No
	located in the London Borough of Brent for which community information was provided during the community engagement events in April and which potentially coincides with the higher particulate deposition rates as modelled by the Met Office. The outputs from other separately instigated investigations at sites in relation to the fire (if provided to RBKC) should be used to assist with the determination of what if any other areas could be included in Stage 2 outside of the proposed 1km radius to be retained from Stage 1.	
Targeted land-uses	The land-uses with the highest relative sensitivity, based on the criteria set out in **Table TN18-03**, are residential gardens, schools/nurseries, and community kitchen gardens. These land-use areas should be considered in the selection of the areas targeted for Stage 2 sampling.	N/A
Inclusion of individual residential gardens	The evidence from Stage 1 is not strong enough to warrant sampling in all individual residential gardens. Schools, communal residential gardens and public open spaces should provide sufficient spatial distribution and provide sufficient evidence of the likely range of soil concentrations to be expected in the investigation area. An alternative approach could be a grid-based selection of sampling locations, noting that it is likely that the grid would be difficult to achieve in practice due to location of buildings and hardstanding, and that the sample locations would be independent of land-use sensitivity.	No
Expansion of investigation area to include area defined by Met Office plume	It was not practical to investigate the entire potential plume deposition area (as defined by the Met Office modelling report (E. L. Kendall, 2019)[1]) at Stage 1 and it is not considered necessary to investigate the entire area delineated by the Met Office modelling at Stage 2. The reasons for this are two-fold: (1) the modelling undertaken by the Met Office provides only relative estimates of particle deposition, and (2) it is reasonable to use the evidence from samples taken within the plume area within 1km of the Tower to provide a reasonable indication of potential soil concentrations resulting from that deposition and pre-existing concentrations. It is noted that the Met Office report only indicates that higher deposition rates could have occurred beyond 1km distance for larger particles and the worst case is approximately a factor of 10 higher deposition.	No
Random or statistically-based sampling	The Stage 1 sampling strategy was based on random sampling within targeted areas. Stage 2 should consist of systematic sampling within areas targeted on the basis that they are within the expected potential source zone (i.e. plume area and identified spatial extent of debris) and are also most likely to have active exposure pathways and sensitive receptors (e.g. areas of grassed open space and schools). Systematic sampling will enable estimates of average soil concentrations and therefore potential exposure to soil COPC to be made for each target area. The target areas should be chosen such that the targeted areas provide sufficient spatial coverage of the investigation area.	N/A
Maintain Stage 1 sampling protocol	The Stage 2 sampling protocol should follow that developed for Stage 1 as it has been demonstrated that the Stage 1 protocol is capable of providing reproducible results. Consideration should be given to modifying the sampling protocol where different land-uses dictate. For example, sampling over a depth interval of 20cm for raised beds used to grow edible crops where it is likely that the soil is turned over (i.e. mixed) on a relatively frequent basis.	Yes
Incorporation of sample media other than soil	Based on the PRA (TN16) and pilot study risk assessment (TN17), plant uptake remains a potential contaminant linkage for some COPC. Other media such as vapours and airborne dust (with the exception of asbestos) are not predicted to be exposure routes of	Yes

[1] E. L. Kendall, S. J. Leadbetter, C. S. Witham, M. C. Hort, April 2019. Grenfell Tower fire: modelling deposition of smoke particulates using NAME. Forecasting Research Technical Report No. 637

Factor	Decision	Included? Yes/No
	concern. Sampling of some edible crops are to be taken as part of the testing strategy for community gardens. Sampling of edible crops must be carried out with concurrent sampling of soil in root zone areas and in areas where soils have not been changed since the fire. Sampling of airborne or swabbed surface dust for asbestos is not recommended due to lack of robust evidence from Stage 1 to suggest that contaminant linkages associated with asbestos have a reasonable possibility of being significant (c.f. TN17 concluded Category 4 for Waynflete Square which had higher asbestos concentrations than other exploratory samples analysed). Asbestos only considered for inclusion at Stage 2 due to high uncertainty of spatial distribution.	
Reduce analytical testing on the basis of Stage 1 results	Based on the results of the exploratory sampling and pilot study, it is considered that the analytical suite can be limited (see below **Table TN18-08**). Analytes not detected above the LOD during the Stage 1 assessment and those not detected close to the GSC have been discounted at Stage 2.	Yes
Test media not directly related to soil	Community concerns have been expressed relating to the health risk posed by dust and debris from the fire that entered homes and collected on balconies, window sills etc. This is outside the scope of Part 2A which is only concerned with exposure to contaminants associated with a soil source.	No

Table TN18-05. Factors to be Considered in Selecting Sampling Areas

Factor	Details
Land-use sensitivity	Based on sensitivity of receptor (child vs. adult), frequency and duration of exposure, and nature of land-use (activities undertaken and resultant contact with/exposure to soil)
Identified by community as an area of concern	Areas/locations identified during community engagement events in April and the site walkovers in May and/or previous/subsequent notification to the MHCLG community liaison team.
Modelled plume deposition area	Areas within modelled extent of smoke plume as modelled by Met Office (E. L. Kendall, 2019).
Reported occurrence of fire debris deposition	Areas/locations identified during community engagement events in April and/or previous/subsequent notification to the MHCLG community liaison team.
Distance from tower	Discernible patterns in the data sets have not been established during the Stage 1 assessment, however this should be considered as part of Stage 2.
Ease of accessibility	The Stage 2 sampling exercise should be undertaken so far as is reasonably practicable such that it can be viewed/witnessed by the community. Land areas chosen therefore should be easily accessible to the public where possible.

Land-use sensitivity (nested table):

Land-Use	Relative Sensitivity
Residential property with private garden	High
Residential property without private garden	High
School/nursery	High
Community kitchen garden	Moderate to high
Communal or public open space (e.g. residential landscaped areas or public parks)	Moderate
Sports facilities	Moderate to low
Commercial properties	Low

9. Stage 2 Strategy

9.1 Aim and Objectives

The aim of Stage 2 of the investigation is to collect sufficient information on the contaminant linkages summarised in Section 6 (based on the findings of the preliminary risk assessment, TN16) so that all required stages of risk assessment can be completed to allow the Authority to make an informed decision with regard to the Part 2A status of the land under investigation. Specific objectives include:

- collect soil samples from a representative group of exposure areas within the zone affected by the fire.
- collect sufficient soil samples within each area to adequately assess potential average exposure concentrations.
- collect produce samples (with co-located soil samples) at a number of community kitchen gardens / allotments within the zone affected by the fire to allow calculation of site-specific assessment criteria and evaluate the contribution to exposure from the consumption of homegrown produce pathway.
- carry out bioaccessibility testing for lead and PAHs to allow calculation of site-specific assessment criteria (SSAC) and evaluate a more reasonable estimate of contribution to exposure from the soil ingestion pathway.
- reduce uncertainty in the potential for the presence of fire effluents from the Grenfell Tower fire by including fire effluent specific COPC in the analytical testing (acknowledging that lead and PAHs, the COPC representing linkages with a reasonable possibility of being significant, are commonplace in the urban environment with many non-fire related potential sources).

9.2 Approach

It is recommended that the Stage 2 investigation should target the single areas of land identified in Table TN18-06 below and investigate that land in a systematic way to assess the potential risks under Part 2A.

These locations were identified based on the following key selection factors:

- Schools and community kitchen gardens located within 500m of the Tower in any direction.
- Schools and community kitchen gardens located up to 1,000m from the Tower in a north-westerly direction.
- Public open spaces to fill notable gaps in spatial coverage (once schools and community gardens have been identified) using the same distance criteria (i.e. 500m from Tower in any direction and up to 1,000m from the Tower in a north-westerly direction).
- Schools and other public areas predominantly identified based on requests for testing, or concerns about impacts, raised during community engagement prior to or during the Stage 1 assessment (reported in TN14).

Table TN18-06. Areas identified as locations for Stage 2 sampling

Location Type	Location Name and Distance/Direction from Tower	Justification
Schools		
	St. Francis Primary School (200m S)	School within 500m radius of Tower. School has raised concerns over debris and dust on-site post fire
	Thomas Jones Primary School (300m NE)	School within 500m radius of Tower.
	Oxford Gardens Primary School (300m NW)	School within 500m radius of Tower. School has raised concerns over a small area of grass
	St. Anne's and Avondale Primary School and Nursery (300m SSE)	School within 500m radius of Tower. School reported debris post-fire

Location Type	Location Name and Distance/Direction from Tower	Justification
	All Saints Catholic College (700m NNE)	Outside 500m range, but within 1,000m and located very nearly directly north of Tower. School has directly requested testing prior to Stage 1.
	Burlington Danes School (1,000m NW)	School just outside 1,000m range but is in north-westerly direction where more distant sampling areas are justifiably considered, and the school has requested to be included in soil investigation
	Barlby Primary School (1,000m N)	School just outside 1,000m range but is in northerly direction where more distant sampling areas are justifiably considered. In addition, the school reported that buildings were affected by smoke during fire.
	Grenfell Creche Under 3s' Centre / Grenfell Nursery (200m ENE)	Nursery school within 500m of Tower.
	Kids on the Green forest school, and Golborne and Maxilla Children's Centre – Forest School On Maxilla Green Westway Trust land (275m N)	Open space area used for forest school located within 500m of the Tower.
	Latymer Alternative Provision Academy (280m ESE)	School within 500m of Tower.
	Bassett House School (470m NNE)	School within 500m of Tower.
	New Studio pre-school (585m NW)	Nursery school within 1,000m of Tower to the north-west.
Community Kitchen Gardens – based on RBKC information		
	Bramley House (100m NW)	Community kitchen garden within 500m of the Tower
	Treadgold House (100m SE)	Community kitchen garden within 500m of the Tower
	Morland House/Talbot Grove (200m NE)	Community kitchen garden within 500m of the Tower
	Darfield Way (300m NW)	Community kitchen garden within 500m of the Tower
	The Grove (300m E)	Community kitchen garden within 500m of the Tower.
	Allom and Barlow (200m E)	Community kitchen garden within 500m of the Tower
	Henry Dickens Court (300m S)	Community kitchen garden within 500m of the Tower
	Portland Road (300m SE)	Community kitchen garden within 500m of the Tower
	Robinson House (300m NW)	Community kitchen garden within 500m of the Tower
	Equal People (650m N)	Community kitchen garden within 1,000m to the north-west of the Tower. Aerial mapping does not reveal any obvious open space / planted areas at this location. To be reviewed during Stage 2 walkover.
	St Quintin Gardens (700m NW)	Community kitchen garden within 1,000m to the north-west of the Tower
	Kensington Memorial Park (St Marks Park) (800m N)	Community kitchen garden within 1,000m to the north-west of the Tower. Not clear where this is located in the park; however if it does not exist, allocation could be used to increase sampling frequency in the park itself due to large area.
Publicly-accessible Open Space		

Location Type	Location Name and Distance/Direction from Tower	Justification
	Lancaster Green (50m N, W, E)	Publicly accessible open space within 500m, not sampled at Stage 1 and providing greater coverage in close proximity to the Tower
	Hurstway, Grenfell, Testerton and Barandon Walks (50m S)	Publicly accessible open space within 500m, providing greater coverage in close proximity to the Tower
	Markland House (300m W)	Publicly accessible open space within 500m, providing greater coverage in close proximity to the Tower
	Whitstable House and Maxilla Hall (100m N)	Publicly accessible open space within 500m, providing greater coverage in close proximity to the Tower
	Verity Close (100m E)	Publicly accessible open space within 500m, providing greater coverage in close proximity to the Tower
	Wesley Square (200m NE)	Open space within private residential estate within 500m of the Tower, not tested during Stage 1, and providing improved coverage in close proximity to the Tower.
	Kensington Memorial Park (750m NW)	Large area of open space with high frequency resident use within 1,000m to the north-west of the Tower, providing improved overall coverage
Other relevant areas from community engagement		
	Longstone Avenue allotments (3.8km NW)	Report of odour and ash in the air the day after the fire. Located within the area where the Met Office modelling indicates that deposition of certain soot particles could have been highest. Hence potential for slightly different deposition scenario.
	Little Wormwood Scrubs (1.2km NW) Including EPIC CIC Adventure Playground	Numerous reports of debris on this area from community engagement. Large area of frequently used public open space provides improved sampling coverage at a distance between 1km and 1.5km to the north-west of the Tower.
	Eynham Road, and land behind backing onto rail tracks (600 – 900m NW)	Debris reported in this area from the community engagement, and anecdotally used as a public space with growing gardens. Improves coverage in the zone between 500m and 1,000m to the north-west of the Tower.

* Subject to each location being reasonably accessible and having open areas of soil where sampling is relevant (i.e. contaminant deposition onto, and migration into soil could have occurred.

Soil sampling in each study area should consist of a systematic sampling grid where possible (acknowledging that this may be difficult in location areas where there are multiple ground surface types (hardstanding, buildings, grassed areas, raised beds etc). Samples will not be collected in areas where hardstanding or buildings are present on the basis that COPC from the Grenfell Tower fire could not have entered the soil in these areas. The sampling grid may be limited by such conditions.

In public open spaces and parks, samples should be taken in the same way as for the exploratory sampling undertaken as part of the Stage 1 assessment, i.e. at a depth of 0-0.05m and using the same procedure and protocol. In other areas (e.g. schools, allotments, raised beds) separate sampling strategies should be devised which should include the collection of samples from depths that best reflect the use of the soil.

It is recommended that ten samples be collected from each sampling area (an increase from the two samples taken at Stage 1 that reflects the variability seen in reported soil concentrations from those Stage 1 pairs of samples and the additional complexity of location areas where multiple ground surfaces exist).

An edible crop sampling protocol should be developed and agreed with the Food Standards Agency (with communication directed through MAP), defining the timings for sampling, sampling procedure (including how to deal with attached soil and handle/preserve crops), analytical test methods, and required limits of detection. At each community kitchen garden location, the sampling approach will need to reflect the types of produce grown, their quantity (and availability/suitability) for testing, and the number of areas (e.g. raised growing beds) being used to grow produce and should be informed by information from the local community on how they use the site.

The PRA (TN16) has only identified reasonably possible SCLs that are associated with COPC that are typically associated with urban soils, notably lead and PAHs (with BaP as a surrogate marker). In testing soil only for lead and PAHs at Stage 2, the strategy could end up focussing on characterising local urban background concentrations of these ubiquitous chemicals rather than directly investigating the contaminative impact of the fire. As a result, it is recommended that dioxins, furans and dioxin-like PCBs are also included in the analytical testing because of their direct association with fire emissions, their common detection in exploratory samples and the potential ability to use of these COPC as markers for the potential presence of other fire effluents – with the aim of reducing the uncertainties in the current Stage 1 dataset with respect to fire effluent concentration spatial distribution in soil and associated potential health risk.

In addition, contaminant linkages associated with asbestos were considered to have high uncertainty due to the sporadic nature of detections, and therefore asbestos was also identified in the PRA as a COPC that should be considered for further investigation at Stage 2.

The recommended analytical strategy is therefore:

- Lead.
- PAHs (standard USEPA priority 16 compounds suite, but with the focus on assessment of the carcinogenic PAHs with coal-tar like toxicity represented by BaP as a surrogate marker.

Plus

- Asbestos (screen and description, plus quantification where identified).
- Chlorinated and brominated dioxins and furans and dioxin-like PCBs.

There is a lack of evidence that chemicals used to treat interior materials and fabrics (e.g. flame retardants and stain protectors) are present in sufficient quantities in fire emissions to justify inclusion in the Stage 2 strategy (i.e. they are not associated with reasonably possible significant contaminant linkages).

In addition, it is recommended that 30% of samples are tested for total organic carbon / soil organic matter to facilitate the subsequent quantitative risk assessment.

10. BS ISO 18400-101 Sampling Plan

The content of the Stage 2 Sampling Plan presented in Table TN18-07 below reflects the suggested items listed in Annex A of BS ISO 18400-101 (British Standards Institute, 2017a).

Table TN18-07. Stage 2 Sampling Plan

Item	Details
General Information	
Aim of investigative programme	The aim of Stage 2 of the investigation is to collect sufficient information on the contaminant linkages summarised in Section 6 (based on the findings of the preliminary risk assessment, TN16) so that all required stages of risk assessment can be completed to allow the Authority to make an informed decision with regard to the Part 2A status of the land under investigation.
Objective for Stage 2 sampling	Specific objectives include: • collect soil samples from a representative group of exposure areas within the zone affected by the fire. • collect sufficient soil samples within each area to adequately assess potential average exposure concentrations. • collect produce samples (with co-located soil samples) at a number of community kitchen gardens / allotments within the zone affected by the fire to allow calculation of site-specific assessment criteria and evaluate the contribution to exposure from the consumption of homegrown produce pathway. • carry out bioaccessibility testing for lead and PAHs to allow calculation of site-specific assessment criteria (SSAC) and evaluate a more reasonable estimate of contribution to exposure from the soil ingestion pathway. • reduce uncertainty in the potential for the presence of fire effluents from the Grenfell Tower fire by including fire effluent specific COPC in the analytical testing (acknowledging that lead and PAHs, the COPC representing linkages with a reasonable possibility of being significant, are commonplace in the urban environment with many non-fire related potential sources).
Quality assurance/quality control	Use of suitably qualified staff Works in accordance with written procedures and protocols Use of a United Kingdom Accreditation Service (UKAS) accredited laboratory that participates in national laboratory proficiency testing schemes (AISS, CONTEST and AQUACHECK) where possible Use of UKAS accredited methods where possible Use of MCERTs accredited methods where possible Use of surrogate recovery for organic analysis Inclusion of duplicate sample testing Sample containers, preservation (chemical/temperature), sample volume, and holding times as per USEPA QA manual 2016 (U.S. Environmental Protection Agency Analytical Services Branch, 2016) or equivalent, as specified by chosen laboratory's quality management system. Request of laboratory method validation data where UKAS accreditation for the method is unavailable Other relevant QA/QC procedures in accordance with British Standards for soil sampling including: • BS 101075:2011+A2:2017 Investigation of potentially contaminated sites – Code of practice, British Standards Institution Publication, 2017. • BS ISO 18400-102:2017 Soil quality – Sampling. Part 102: Selection and application of sampling techniques, British Standards Institution Publication, 2017.

Item	Details
	• BS ISO 18400-105:2017 Soil quality – Sampling. Part 105: Packaging, transport, storage and preservation of samples, British Standards Institution Publication, 2017. • BS ISO 18400-201:2017 Soil quality – Sampling. Part 201: Physical pre-treatment in the field, British Standards Institution Publication, 2017. • BS ISO 18512:2007 Soil Quality – Guidance on long and short-term storage of soil samples, British Standards Institution Publication, 2007.
Information on soil material	
Site details	Individual sites should be defined as each of the sampling areas – 34 recommended sampling areas are listed in Table TN18-06.
History of site / origins of soil	Variable dependent on specific area being sampled. History of the area surrounding Grenfell Tower to a radial distance of 1km is provided in TN10/12.
Soil types expected	Topsoil and variable made ground including reworked natural with inclusions of anthropogenic material and predominantly anthropogenic materials.
Land access arrangements	To be arranged through the MAP.
Type of samples to be collected	Discrete, disturbed, surface, and sub-surface soil samples to a maximum depth of 0.05m (second deeper sample if evidence suggests deeper soil mixing/disturbance – such as in raised beds – sample depth of 0.2m is advised in these circumstances).
Soil Sampling Methodology	
Sampling approach and type of sampling	Sampling areas as identified in Table TN18-06. Regular systematic samples to be taken on a grid pattern. 10 samples to be taken in each land use area. Samples to be disturbed soil samples taken from a 0.5m x 0.5m square area where possible.
Sample locations	Prioritised to include schools, nurseries, and community gardens within 500m radius of the Tower, extending to 1km radius in the north-west direction. Other areas of public space to be included to improve spatial coverage. Specific areas with reports of debris from community engagement beyond 1km to be included.
Sampling technique	Hand dug.
Place and point of sampling	To be confirmed by Stage 2 contractor during a site walkover prior to sampling.
Date and time of sampling	To be confirmed by Stage 2 contractor.
Person/organisation undertaking sampling	To be confirmed by Stage 2 contractor.
Sampling equipment to be used	Hand-held stainless-steel sampling tools e.g. spades, trowels, fence-post diggers
Sampling scheme/pattern	Target of 10 samples in each area on a systematic grid, to be finalised as part of Stage 2 work.
Number of increments/samples to be	Samples to be single increments.

Item	Details
collected	
Increment/sample size	Sample size dictated by laboratory analytical requirements and to be confirmed by laboratory when testing request and dispatch of sample containers is arranged.
Requirements for in-site determinations	None recommended.
Sample code methodology	Unique location code GTCS 2-xx using a simple sequential numbering system to identify the samples (01, 02, 03 etc) in the Stage 2 sampling. GTCS 2 has been selected as a short form to represent 'Grenfell Tower Contamination, Soil, Stage 2'.
Safety precautions	As stipulated in the safety, health and environment (SHE) plan for the sampling works – to be prepared by the Stage 2 contractor.
Decontamination procedures	Sampling equipment to be decontaminated between samples in accordance with a prior agreed sampling method statement.
Crop Sampling Methodology	
	To be developed by Stage 2 contractor and agreed with the Food Standards Agency through the MAP.
Packaging, preservation, storage and transport requirements	
Packaging	Use laboratory specified packaging in accordance with laboratory method.
Preservation	As specified by laboratory method.
Storage	Use laboratory supplied cool boxes. Cool boxes to be kept chilled with ice and stored out of the sun whilst on-site. Samples to be stored for the minimum time necessary and shipped once-daily to the laboratory.
Transport	Use laboratory supplied courier. Collection of samples to be arranged daily.
Analytical Laboratory	
Company details	To be confirmed by Stage 2 contractor
Analysis required	**Soil and crops** Lead PAHs (USEPA speciated 16 compounds) – benzo(a)pyrene to be used as surrogate marker for PAH mixture with carcinogenic coal tar toxicology Chlorinated and brominated dioxins and furans and dioxin-like PCBs **Soil only** Asbestos screen – (specifically SCA Blue Book Method) Asbestos quantification where screen has a positive identification Total organic carbon **Soil bioaccessibility**

Item	Details
	Lead PAHs **Sample numbers** All samples collected are to be tested for lead, PAHs and asbestos screen in soil. Where the asbestos screen identifies the presence of asbestos, quantification of the asbestos is to be scheduled. A sub-set of 5% of all soil samples are to be scheduled for lead and PAH bioaccessibility testing. The quantity of crop samples to be scheduled for testing is dependent on the outcome of the crop sampling methodology, to be prepared by the Stage 2 contractor and agreed by the FSA. Pending confirmation of the acceptability of this approach between the Stage 2 contractor and chosen laboratory (i.e. are holding times sufficiently long) - chlorinated and brominated dioxins and furans and dioxin-like PCBs are to be scheduled in 20% of samples (i.e. two in 10 at each sampling area), with the remaining eight samples in each area to be kept on hold pending receipt of the results for the initial two scheduled samples. Allowance for testing of all soil samples for these COPC is required in the event of high concentrations in the initial samples; however it is anticipated that the full allocation of testing will not ultimately be required. The decision on testing is to be made by the Stage 2 contractor with agreement from MAP and SAG.
Chain of custody requirements	As per laboratory requirements.
Sub-contracted laboratories	To be confirmed (if required).

Table TN18-08. Analytical Methods

Analyte/Group	Laboratory	Laboratory Method	Detection Limit (mg/kg unless specified)	UKAS Accredited Method?	Sample Handling

[Table TN18-08 to be completed by Stage 2 contractor]

11. Reference List

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Appendix TN18-A - Tables

Parameter	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	Location	GTCS 1-05	GTCS 1-06	GTCS 1-07	GTCS 1-08				GTCS 1-09	GTCS 1-10	GTCS 1-11	GTCS 1-12			
					Date	06/06/2019	06/06/2019	06/06/2019	06/06/2019				06/06/2019	06/06/2019	06/06/2019	06/06/2019			
					Sample Type	Normal	Normal	Normal	Normal	Field_D			Normal	Normal	Normal	Normal	Field_D		
					Sample Area	Lancaster West Walkways	Lancaster West Walkways	Treadgold House	Treadgold House	Treadgold House	Treadgold House	Treadgold House	Verity Close	Verity Close	Morland House	Morland House	Morland House	Morland House	Morland House
					Field ID	GTCS 1-05A	GTCS 1-06A	GTCS 1-07A	GTCS 1-08 PRIMARY SAMPLE	GTCS 1-08 FIELD DUPLICATE	GTCS 1-08 LAB DUPLICATE	GTCS 1-08 LAB FIELD DUPLICATE	GTCS 1-09A	GTCS 1-10A	GTCS 1-11A	GTCS 1-12 PRIMARY SAMPLE	GTCS 1-12 FIELD DUPLICATE	GTCS 1-12 LAB DUPLICATE	GTCS 1-12 LAB FIELD DUPLICATE
					Sample_Depth_Range	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
Metals																			
Aluminium	mg/kg	50	77,000[#1]			11,920 - 14,493	15,840	13,900	10,660	8,167 - 12,670	11,540	12,640	13,940	12,070	8,683	10,180	9,318 - 9,669	10,300	11,880
Arsenic	mg/kg	0.5	37[#6]	***32***		9.1 - 9.5	11.1	17.8	***35.2***	***25.3 - 32.5***	***29.6***	27	12.8	9.2	9.6	11.1	11.1 - 13.4	9.6	10.7
Barium	mg/kg	1	460[#7]			133 - 178	187	321	343	253 - 377	357	395	164	88	124	153	117 - 153	134	134
Beryllium	mg/kg	0.5	1.7[#2]			1 - 1.1	1.1	1.8	2.1	1.8 - 2.3	2.6	2.3	1	0.8	0.8	0.8	0.8	0.8	1
Boron	mg/kg	0.1	290[#2]			1.7 - 2.2	3	2.9	2.9	4.2 - 4.4	3	2.5	2	0.8	2.5	3.7	4 - 5.3	3.7	3.2
Cadmium	mg/kg	0.1	22[#6]	***2.1***		1.3 - 1.4	***3.1***	0.7	0.7	0.5 - 1.1	0.9	0.5	1.4	0.6	0.6	0.9	0.6	0.6	0.6
Chromium (Trivalent)	mg/kg	0.5	910[#2]			42.1 - 47.2	150.7	87.6	115.2	28 - 36.7	114.5	48.3	118.5	91.6	132.8	84.5	28.7 - 30.1	74	78.1
Chromium (hexavalent)	mg/kg	0.3	21[#6]			<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium (III+VI)	mg/kg	0.5	Use either CrIII or CrVI[#2]			42.1 - 47.2	150.7	87.6	115.2	28 - 36.7	114.5	48.3	118.5	91.6	132.8	84.5	28.7 - 30.1	74	78.1
Copper	mg/kg	1	2,400[#2]	***190***		43 - 53	77	113	131	105 - 154	139	162	63	30	39	62	45 - 55	48	50
Lead	mg/kg	5	200[#6]	***820***		116 - 132	175	500	473	359 - 516	442	587	169	100	197	131	149 - 153	141	147
Mercury	mg/kg	0.1	40[#2]	***1.9***		0.3	0.5	0.5	0.5	0.7	0.5	0.8	0.3	0.2	<0.1	<0.1	<0.1 - 0.2	<0.1	<0.1
Nickel	mg/kg	0.7	130[#2]	***42***		23.6 - 27.1	26.9	30	35.9	29 - 35	39.6	33	28.8	17	21.8	23.4	16.3 - 18.5	17.2	20.3
Selenium	mg/kg	1	250[#2]			<1	1	1	1	1	1	1	<1	<1	1	1	1	<1	1
Vanadium	mg/kg	1	410[#2]			36 - 43	50	56	69	56 - 64	77	60	51	37	40	47	45	45	52
Zinc	mg/kg	5	3,700[#2]			166 - 191	243	286	327	275 - 387	339	354	212	104	391	189	177 - 198	190	188
VOCs																			
1,1,1,2-tetrachloroethane	ug/kg	5	2,800[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-trichloroethane	ug/kg	5	18,000[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,2,2-tetrachloroethane	ug/kg	3	3,400[#2]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1,2-trichloroethane	ug/kg	4	1,200[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,1-dichloroethane	ug/kg	6	1,200[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
1,1-dichloroethene	ug/kg	6	3,900[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
1,1-dichloropropene	ug/kg	3				<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2,3-trichlorobenzene	ug/kg	7	3,600[#2]			<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
1,2,3-trichloropropane	ug/kg	4	5.1[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,2,4-trimethylbenzene	ug/kg	6	850[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
1,2-dibromo-3-chloropropane	ug/kg	4	5.3[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,2-dibromoethane	ug/kg	3	36[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2-dichloroethane	ug/kg	5	11[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-dichloropropane	ug/kg	4	42[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,3,5-trimethylbenzene	ug/kg	3	270,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,3-dichloropropane	ug/kg	4	1,600,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
2,2-dichloropropane	ug/kg	4				<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
2-chlorotoluene	ug/kg	3	1,600,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
4-chlorotoluene	ug/kg	3	1,600,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Benzene	ug/kg	5	870[#6]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromobenzene	ug/kg	2	2,000[#3]			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Bromochloromethane	ug/kg	4	150,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromodichloromethane	ug/kg	4	290[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromoform	ug/kg	4	5,900[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	ug/kg	1	6,800[#1]			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3-Methyl butanal	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/kg	4	56[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chlorobenzene	ug/kg	4	1,000[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chlorodibromomethane	ug/kg	5	8,300[#1]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	ug/kg	6	11,000[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
Chloroform	ug/kg	5	1,700[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloromethane	ug/kg	3	9.8[#3]			8	6	4	7	7	8	9	12	10	17	20	14	21	14
cis-1,2-dichloroethene	ug/kg	7	190[#3]			<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
cis-1,3-dichloropropene	ug/kg	4				<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromomethane	ug/kg	4	24,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dichlorodifluoromethane	ug/kg	2	87,000[#1]			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloromethane	ug/kg	30	980[#3]			<30	<30	38	<30	46	<30	<30	<30	<30	<30	<30	<30	<30	<30
Ethylbenzene	ug/kg	3	110,000[#2]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Eucalyptol	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	ug/kg	3	27,000[#3]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Methyl Methacrylate	ug/kg	100	4,400,000[#1]			-	-	-	-	-	-	-	-	-	-	-	-	-	-
MTBE	ug/kg	6	84,000[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
n-butylbenzene	ug/kg	4	3,900,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
n-propylbenzene	ug/kg	4	82,000[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
sec-butylbenzene	ug/kg	4	7,800,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/kg	3	19,000[#3]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
tert-butylbenzene	ug/kg	5	7,800,000[#1]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethene	ug/kg	3	390[#2]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Toluene	ug/kg	3	290,000[#2]			<3	<3	<3	<3	4	<3	<3	<3	<3	<3	<3	<3	<3	<3
trans-1,2-dichloroethene	ug/kg	3	340[#3]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
trans-1,3-dichloropropene	ug/kg	3				<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Trichloroethene	ug/kg	5	34[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichlorofluoromethane	ug/kg	3	23,000,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Undecane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene (m & p)	ug/kg	4				<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Xylene (o)	ug/kg	4	140,000[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vinyl chloride	ug/kg	2	0.87[#2]			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
VOC TICs	None					0	0	0	0	0	0	0	0	0	0	0	0	0	-
Trihalomethanes	ug/kg					<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration															
					Location	GTCS 1-05	GTCS 1-06	GTCS 1-07	GTCS 1-08				GTCS 1-09	GTCS 1-10	GTCS 1-11	GTCS 1-12			
					Date	06/06/2019	06/06/2019	06/06/2019	06/06/2019				06/06/2019	06/06/2019	06/06/2019	06/06/2019			
					Sample Type	Normal	Normal	Normal	Normal	Field_D			Normal	Normal	Normal	Normal	Field_D		
					Sample Area	Lancaster West Walkways	Lancaster West Walkways	Treadgold House	Treadgold House	Treadgold House	Treadgold House	Treadgold House	Verity Close	Verity Close	Morland House	Morland House	Morland House	Morland House	Morland House
					Field ID	GTCS 1-05A	GTCS 1-06A	GTCS 1-07A	GTCS 1-08 PRIMARY SAMPLE	GTCS 1-08 FIELD DUPLICATE	GTCS 1-08 LAB DUPLICATE	GTCS 1-08 LAB FIELD DUPLICATE	GTCS 1-09A	GTCS 1-10A	GTCS 1-11A	GTCS 1-12 PRIMARY SAMPLE	GTCS 1-12 FIELD DUPLICATE	GTCS 1-12 LAB DUPLICATE	GTCS 1-12 LAB FIELD DUPLICATE
					Sample_Depth_Range	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
SVOCs																			
Dibenzo[a,e]pyrene	ug/kg	100	42[#1]			-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-methylnaphthalene	ug/kg	10	240.000[#1]			75	24	46	32	29	35	40	29	26	<10	21	27	50	50
4-bromophenyl phenyl ether	ug/kg	10				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-chlorophenyl phenyl ether	ug/kg	10				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Azobenzene	ug/kg	10	5.600[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bis(2-chloroethoxy) methane	ug/kg	10	190.000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bis(2-chloroethyl)ether	ug/kg	10	230[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbazole	ug/kg	10				280	50	49	37	45	49	92	52	28	61	67	243	518	1,164
Dibenzofuran	ug/kg	10	73.000[#1]			194	19	22	15	18	19	36	21	12	12	16	98	170	233
Hexachlorobutadiene	ug/kg	4	700[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hexachlorocyclopentadiene	ug/kg	10	1.800[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexachloroethane	ug/kg	10	480[#3]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Anilines																			
2-nitroaniline	ug/kg	10	630.000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3-nitroaniline	ug/kg	10				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-chloroaniline	ug/kg	10	2.700[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-nitroaniline	ug/kg	10	27.000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Amino Aliphatics																			
N-nitrosodi-n-propylamine	ug/kg	10	78[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Explosives																			
2,4-Dinitrotoluene	ug/kg	10	3.200[#3]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,6-dinitrotoluene	ug/kg	10	1.700[#3]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nitrobenzene	ug/kg	10	5.100[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Phenolics																			
2,4-dimethylphenol	ug/kg	10	43.000[#3]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-chloronaphthalene	ug/kg	10	9.200[#3]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-methylphenol	ug/kg	10	Use Cresols Total[#3]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-nitrophenol	ug/kg	10				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-chloro-3-methylphenol	ug/kg	10	6.300.000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-methylphenol	ug/kg	10	Use Cresols Total[#3]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-nitrophenol	ug/kg	10				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phenol	ug/kg	10	200.000[#2]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Halogenated Phenols																			
2,4,5-trichlorophenol	ug/kg	10	6.300.000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4,6-trichlorophenol	ug/kg	10	49.000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4-dichlorophenol	ug/kg	10	190.000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-chlorophenol	ug/kg	10	390.000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Pentachlorophenol	ug/kg	10	520[#2]			<10	<10	<10	<10	116	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Halogenated Benzenes																			
1,2,4-trichlorobenzene	ug/kg	7	6.400[#2]			<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
1,2-dichlorobenzene	ug/kg	4	55.000[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,3-dichlorobenzene	ug/kg	4	1.000[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,4-dichlorobenzene	ug/kg	4	150.000[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hexachlorobenzene	ug/kg	10	3.300[#2]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Phthalates																			
Bis(2-ethylhexyl) phthalate	ug/kg	100	610.000[#3]			418	576	389	386	238	363	399	457	251	210	408	418	939	583
Butyl benzyl phthalate	ug/kg	100	3.300.000[#3]			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Diethylphthalate	ug/kg	100	260.000[#3]			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Dimethyl phthalate	ug/kg	100	16.400[#5]			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Di-n-butyl phthalate	ug/kg	100	31.000[#3]			<100	<100	<100	<100	<100	<100	<100	711	<100	<100	<100	<100	<100	<100
Di-n-octyl phthalate	ug/kg	100	2.800.000[#3]			801	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SVOC - Solvents																			
Isophorone	ug/kg	10	570.000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC TIC																			
SVOC TICs	None					-	-	-	-	-	-	-	-	-	-	-	-	-	-
.alpha.-Phellandrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
.alpha.-Pinene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	268
.beta.-Guaiene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
[1,1-Biphenyl]-4-carboxaldehyde	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
1(2Aminobenzylidene)1234-tetrahydroacridine	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl, 2,3,3,4-tetrachloro-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl, 2,3,3,5-tetrachloro-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl, 2,3,4,6-tetrachloro-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-di	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,9,10-Dibenzopyrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,5,5-Trimethyl-6-methylene-cyclohexene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,6-Dimethylphenazine	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
10,18-Bisnorabieta-5,7,9(10),11,13-pentaene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
10,18-Bisnorabieta-8,11,13-triene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
10s,11s-Himachala-3(12),4-diene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
11H-Benzo[a]carbazole	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
11H-Benzo[a]fluoren-11-one	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	1,293
11H-Benzo[a]fluoren-11-one, 10-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
11H-Benzo[a]fluorene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
11H-Benzo(b)fluorene	ug/kg	100				1,617	-	-	-	-	-	-	-	-	-	-	-	-	-
11H-Indeno(1,2-b)quinoline	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
13-Docosenamide, (Z)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
13-Isopropylpodocarpen-12-ol-20-al	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	532	-
1H-Cyclopropa[l]phenanthrene,1a,9b-dihydro-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methyldibenzothiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Naphthalenecarboxylic acid, 2-benzoyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-(2H-Benzotriazol-2-yl)-5-methylphenol	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-(Acetoxymethyl)-3-(methoxycarbonyl)bipheny	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix TN18-A
Table A
Tabulated Laboratory Data

Location	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	GTCS 1-05	GTCS 1-06	GTCS 1-07	GTCS 1-08				GTCS 1-09	GTCS 1-10	GTCS 1-11	GTCS 1-12			
Date					06/06/2019	06/06/2019	06/06/2019	06/06/2019				06/06/2019	06/06/2019	06/06/2019	06/06/2019			
Sample Type					Normal	Normal	Normal	Normal	Field_D			Normal	Normal	Normal	Normal	Field_D		
Sample Area					Lancaster West Walkways	Lancaster West Walkways	Treadgold House	Treadgold House	Treadgold House	Treadgold House	Treadgold House	Verity Close	Verity Close	Morland House	Morland House	Morland House	Morland House	Morland House
Field ID					GTCS 1-05A	GTCS 1-06A	GTCS 1-07A	GTCS 1-08 PRIMARY SAMPLE	GTCS 1-08 FIELD DUPLICATE	GTCS 1-08 LAB DUPLICATE	GTCS 1-08 LAB FIELD DUPLICATE	GTCS 1-09A	GTCS 1-10A	GTCS 1-11A	GTCS 1-12 PRIMARY SAMPLE	GTCS 1-12 FIELD DUPLICATE	GTCS 1-12 LAB DUPLICATE	GTCS 1-12 LAB FIELD DUPLICATE
Sample_Depth_Range					0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
2,3,3,,5,6-Pentachloro-1,1-biphenyl	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,3,6-Tetrachloro-1,1-biphenyl	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6-Tetrachloro-1,1-biphenyl	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Cycloheptatrien-1-one, 2-phenyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dimethyldibenzothiophene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,9-Dimethyl-2,3,4,5,6,7hexahydro-1H-2-benza	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Bromo-4,5-dimethoxycinnamic acid	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
2Chloro2methyl1oxa2sila-1,2-dihydronaphthale	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	123	-
2-Methylchrysene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Propenal, 3-(4-hydroxy-3-methoxyphenyl)-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3-Dimethylbiphenyl	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,4:8,9-Dibenzopyrene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,4-Dichlorobenzonitrile	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,5-Dimethoxy-4-hydroxycinnamaldehyde	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Bromo-5-ethoxy-4-hydroxybenzaldehyde	ug/kg	100			528	-	-	-	-	-	-	-	-	-	-	-	-	1,052
4,4-Bis(tetrahydrothiopyran)	ug/kg	100			871	-	-	-	-	-	-	-	-	-	-	-	-	470
4H-Cyclopenta[def]phenanthrene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
6H-Benz[de]anthracen-6-one	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
7H-Benz(de)anthracen-7-one	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
8,9-Dihydro-7H-cyclopenta[a]pyrene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
9,10-Anthracenedione	ug/kg	100	14,000[#1]		355	-	-	-	-	-	-	-	-	-	-	-	-	-
9,10-Anthracenedione, 2-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
9,10-Bis(bromomethyl)anthracene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
9,10-Dimethylanthracene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
9-Anthracenecarbonitrile	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Cyclopenta[a]pyrene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluoren-9-ol	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluoren-9-one	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	307
9H-Fluorene, 1-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluorene, 2-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluorene, 9-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Abietic acid	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alloaromadendrene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthra(1,2-b)thiophene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthra(2,3-b)thiophene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene, 1-methyl-	ug/kg	100			506	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene, 2-ethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene, 2-methyl-	ug/kg	100			-	122	-	-	-	-	-	-	-	-	-	-	-	-
Aromandendrene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz(A)anthracene-7,12-dione	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz(a)anthracene-7-carbonitrile	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz[a]anthracene, 12-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz[a]anthracene, 1-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz[a]anthracene, 7-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz[j]aceanthrylene, 3-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde, 4-hydroxy-3,5-dimethoxy-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzenamine, 2,4,6-tribromo-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	696
Benzene, (4,5,5-trimethyl-1,3-cyclopentadien-1-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Sulfonylbis (4-chlorobenzene)	ug/kg	100	51,000[#1]		-	-	-	-	-	-	-	-	-	266	-	-	-	-
Benzenesulfonamide, 4-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]naphtho[1,2-d]furan	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(c)carbazole	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]naphtho[1,2-d]thiophene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]naphtho[2,1-d]thiophene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	593
Benzo[b]naphtho[2,3-d]furan	ug/kg	100			556	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]naphtho[2,3-d]thiophene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]triphenylene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[c]cinnoline	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[c]phenanthrene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(e)pyrene	ug/kg	100			6,551	962	-	-	1,081	881	1,918	-	-	-	882	1,029	-	3,341
Benzo[ghi]fluoranthene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[h]quinoline, 2,4-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[kl]xanthene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzoic acid, hexyl ester	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl	ug/kg	100	160,000[#3]		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenylene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylated Hydroxytoluene	ug/kg	100	150,000[#1]		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Camphor (TIC)	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene, 1-methyl-	ug/kg	100			-	-	-	-	234	-	-	-	-	-	-	-	-	746
Chrysene, 5-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene, 6-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	836	-
Cyclopenta(cd)pyrene, 3,4-dihydro-	ug/kg	100			1,147	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopenta(def)phenanthrenone	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dehydroabietic acid	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-Homoandrostane, (5.alpha.,13.alpha.)-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,e)aceanthrylene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,i)pyrene	ug/kg	100			1,341	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo[def,mno]chrysene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran, 4-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzothiophene	ug/kg	100	780,000[#1]		-	-	-	-	-	-	-	-	-	-	-	-	-	435
Dibenzothiophene, 3-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzothiophene, 4,6-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dicyclohexyl phthalate	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diphenyl sulfide	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
di-p-Tolylacetylene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-Limonene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Eicosane	ug/kg	100			-	-	-	-	-	-	-	1,437	-	-	-	-	-	-
Ferruginol	ug/kg	100			-	-	-	523	-	-	-	-	-	-	-	624	-	-
Fluoranthene, 2-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	782	1,038
Fluorene, 2,4a-dihydro-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heneicosane	ug/kg	100			-	-	-	-	-	-	4,270	-	-	-	-	1,142	1,411	-
Heneicosane, 3-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptadecane	ug/kg	100			-	421	-	-	1,829	2,230	-	-	-	-	1,514	-	-	1,856
Hexadecane	ug/kg	100			-	-	-	-	-	-	723	1,940	3,310	-	-	-	-	-
Hexathiane	ug/kg	100			-	-	-	-	-	-	1,332	-	-	-	-	-	-	-

Chemical	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	Location	GTCS 1-05	GTCS 1-06	GTCS 1-07	GTCS 1-08				GTCS 1-09	GTCS 1-10	GTCS 1-11	GTCS 1-12			
					Date	06/06/2019	06/06/2019	06/06/2019	06/06/2019				06/06/2019	06/06/2019	06/06/2019	06/06/2019			
					Sample Type	Normal	Normal	Normal	Normal	Field_D			Normal	Normal	Normal	Normal	Field_D		
					Sample Area	Lancaster West Walkways	Lancaster West Walkways	Treadgold House	Treadgold House	Treadgold House	Treadgold House	Treadgold House	Verity Close	Verity Close	Morland House	Morland House	Morland House	Morland House	Morland House
					Field ID	GTCS 1-05A	GTCS 1-06A	GTCS 1-07A	GTCS 1-08 PRIMARY SAMPLE	GTCS 1-08 FIELD DUPLICATE	GTCS 1-08 LAB DUPLICATE	GTCS 1-08 LAB FIELD DUPLICATE	GTCS 1-09A	GTCS 1-10A	GTCS 1-11A	GTCS 1-12 PRIMARY SAMPLE	GTCS 1-12 FIELD DUPLICATE	GTCS 1-12 LAB DUPLICATE	GTCS 1-12 LAB FIELD DUPLICATE
					Sample_Depth_Range	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
Indene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno[1,2,3-fg]naphthacene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indole, 5-methyl-2-(4-pyridyl)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isocil	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
isoledene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Longifolene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl dehydroabietate	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Morpholine, 4-(1-cyclohepten-1-yl)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,4,5-trimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,4,6-trimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,6,7-trimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,6-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,7-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,3,6-trimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,3-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,6-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,7-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2-ethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2-phenyl-	ug/kg	100				660	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphtho[1,2-b]thiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphtho[2,1,8,7-klmn]xanthene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphtho[2,1-b]thiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Decanoic acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neocuproine	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexadecanoic Acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonadecane	ug/kg	100				-	-	-	-	-	-	2,363	3,681	-	-	-	1,386	-	-
n-Pentafluorosulfanyl-S,S-diphenoxysufilimine	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octadecane	ug/kg	100				-	-	-	-	879	-	-	-	-	-	-	1,290	-	-
Octadecane, 1-iodo-	ug/kg	100				-	-	-	-	-	-	1,601	-	-	-	-	-	-	-
Octadecanoic Acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octadecanoic acid, butyl ester	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
p-Cymene	ug/kg	4				<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Perylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene, 1-methyl-	ug/kg	100				1,088	-	-	-	-	125	-	-	-	-	-	-	-	650
Phenanthrene, 2,5-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene, 2-methyl-	ug/kg	100				615	-	153	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene, 3,6-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene, 4-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	818
Phenol, 2,6-dimethoxy-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol, 2,6-dimethoxy-4-(2-propenyl)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol, 2-methoxy-4-(1-propenyl)-, (Z)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene, 1,3-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene, 1-methyl-	ug/kg	100				-	300	402	343	-	-	-	-	-	-	-	-	-	941
Pyrene, 2-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quinoxaline, 6-(3-nitrobenzylidenamino)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Retene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rubicene-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloro-o-benzoquinone	ug/kg	100				503	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetracosane	ug/kg	100				-	-	-	-	-	-	926	-	-	-	-	-	-	-
Tetradecanoic acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Bis(methyldichlorosilyl)ethylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorovinylsilane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triphenylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triphenylene, 2-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-01	ug/kg	100				665	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-02	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-03	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-04	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-05	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	1,743	1,163	-
GT-SVOC-TIC-06	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-07	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-08	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-09	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-10	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-11	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-12	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	622	496	401
GT-SVOC-TIC-13	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-14	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-15	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-16	ug/kg	100				1,916	-	1,105	-	-	-	-	667	-	-	-	-	1,334	-
GT-SVOC-TIC-17	ug/kg	100				-	-	1,254	-	-	-	1,590	-	-	-	-	-	-	-
GT-SVOC-TIC-18	ug/kg	100				1,037	-	-	-	-	-	424	-	-	-	-	-	-	-
Benzo(b)naphtho(1,2-d)furan	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	Location	GTCS 1-05	GTCS 1-06	GTCS 1-07	GTCS 1-08				GTCS 1-09	GTCS 1-10	GTCS 1-11	GTCS 1-12			
					Date	06/06/2019	06/06/2019	06/06/2019	06/06/2019				06/06/2019	06/06/2019	06/06/2019	06/06/2019			
					Sample Type	Normal	Normal	Normal	Normal	Field_D			Normal	Normal	Normal	Normal	Field_D		
					Sample Area	Lancaster West Walkways	Lancaster West Walkways	Treadgold House	Treadgold House	Treadgold House	Treadgold House	Treadgold House	Verity Close	Verity Close	Morland House	Morland House	Morland House	Morland House	Morland House
					Field ID	GTCS 1-05A	GTCS 1-06A	GTCS 1-07A	GTCS 1-08 PRIMARY SAMPLE	GTCS 1-08 FIELD DUPLICATE	GTCS 1-08 LAB DUPLICATE	GTCS 1-08 LAB FIELD DUPLICATE	GTCS 1-09A	GTCS 1-10A	GTCS 1-11A	GTCS 1-12 PRIMARY SAMPLE	GTCS 1-12 FIELD DUPLICATE	GTCS 1-12 LAB DUPLICATE	GTCS 1-12 LAB FIELD DUPLICATE
					Sample_Depth_Range	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
PAH																			
Acenaphthene	mg/kg	0.01	510[#2]			0.15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	mg/kg	0.01	420[#2]			0.3	0.15	0.27	0.11	0.12	0.11	0.08	0.12	0.04	0.12	0.07	0.06	0.07	0.07
Anthracene	mg/kg	0.01	5,400[#2]			0.96	0.24	0.31	0.23	0.19	0.15	0.19	0.19	0.08	0.07	0.12	0.13	0.11	0.11
Benz(a)anthracene	mg/kg	0.01	11[#2]			2.37	1.15	1.46	0.81	0.78	0.68	0.75	0.69	0.29	1.16	0.76	0.74	0.81	0.72
Benzo(a) pyrene	mg/kg	0.01	2.7[#2]	***3.6***		2.29	1.24	1.67	0.93	0.99	0.82	0.92	0.75	0.34	0.93	0.63	0.72	0.72	0.72
Benzo(b)fluoranthene	mg/kg	0.01	3.3[#2]			3.02	1.63	2.25	1.3	1.33	1.14	1.32	1.02	0.44	1.45	0.93	0.95	1.04	0.96
Benzo(b)&(k)fluoranthene	mg/kg	0.01				4.2	2.27	3.13	1.81	1.85	1.59	1.84	1.41	0.61	2.02	1.29	1.32	1.45	1.33
Benzo(g,h,i)perylene	mg/kg	0.01	340[#2]			1.49	0.81	1.12	0.69	0.75	0.67	0.78	0.53	0.23	0.78	0.53	0.56	0.6	0.55
Benzo(k)fluoranthene	mg/kg	0.01	93[#2]			1.18	0.64	0.88	0.51	0.52	0.45	0.52	0.39	0.17	0.57	0.36	0.37	0.41	0.37
Chrysene	mg/kg	0.01	22[#2]			2.15	1.07	1.46	0.86	0.88	0.75	0.97	0.72	0.32	0.79	0.49	0.57	0.59	0.64
Coronene	mg/kg	0.04				0.3	0.2	0.27	0.15	0.18	0.13	0.15	0.13	0.06	0.16	0.12	0.12	0.14	0.12
Dibenz(a,h)anthracene	mg/kg	0.01	0.28[#2]			0.5	0.29	0.33	0.24	0.21	0.19	0.19	0.18	0.08	0.16	0.12	0.13	0.1	0.09
Fluoranthene	mg/kg	0.01	560[#2]			5.05 - 8.862	1.92	2.73	1.41	1.38	1.15	1.58	1.23	0.52	0.87	0.96	1.03	1.05	0.94
Fluorene	mg/kg	0.01	400[#2]			0.15	<0.04	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Indeno(1,2,3-c,d)pyrene	mg/kg	0.01	36[#2]			1.5	0.84	1.09	0.63	0.73	0.62	0.72	0.53	0.23	0.78	0.49	0.49	0.53	0.51
Naphthalene	mg/kg	0.01	5.6[#2]			<0.027 - 0.04	<0.027	<0.027 - 0.05	<0.027 - 0.04	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027
Phenanthrene	mg/kg	0.01	220[#2]			2.59	0.56	0.84	0.57	0.45	0.35	0.61	0.43	0.17	0.22	0.33	0.38	0.29	0.3
Pyrene	mg/kg	0.01	1,200[#2]			4.16	1.66	2.38	1.23	1.26	1.04	1.38	1.07	0.45	0.79	0.84	0.91	0.93	0.84
PAH 16 Total	mg/kg	0.6				27.9	12.2	16.9	9.6	9.6	8.1	10	7.9	3.4	8.7	6.6	7	7.3	6.8
PAH 17 Total	mg/kg	0.64				28.2	12.4	17.15	9.71	9.77	8.25	10.16	7.98	3.42	8.85	6.75	7.16	7.39	6.94
PCB (Dutch 7) congeners																			
PCB 28	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 52	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 101	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 118	ug/kg	5	120[#1]			<5 - 0.544	<5 - 4.83	<5 - 0.567	<5 - 0.363	<5 - 0.325	<5 - 0.362	<5 - 0.264	<5 - 0.619	<5 - 0.313	<5 - 1.58	<5 - 1.2	<5 - 0.92	<5 - 1.06	<5 - 0.796
PCB 138	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 153	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 180	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total PCB 7 Congeners	ug/kg	35	200[#5]			<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
PCB (WHO12) 12 congeners																			
Tetrachlorobiphenyl, 3,3,4,4- (PCB 77)	ug/kg	Various	38[#1]			0.045	0.259	0.0375	0.0379	0.0271	0.0303	0.0234	0.0626	0.0241	0.134	0.0693	0.0578	0.0656	0.0489
Tetrachlorobiphenyl, 3,4,4,5- (PCB 81)	ug/kg	Various	12[#1]			0.000833	0.00784	0.00181	0.00206	0.00217	0.00235	0.00126	0.00219	0.000516	0.00523	0.00346	0.00094	0.00148	0.00132
Pentachlorobiphenyl, 2,3,3,4,4- (PCB 105)	ug/kg	Various	120[#1]			0.351	2.33	0.28	0.174	0.162	0.18	0.128	0.315	0.164	0.743	0.587	0.445	0.538	0.388
Pentachlorobiphenyl, 2,3,4,4,5- (PCB 114)	ug/kg	Various	120[#1]			0.00381	0.04	0.00514	0.00573	0.00296	0.0035	0.0024	0.00457	0.00191	0.0174	0.0124	0.0107	0.0105	0.0132
Pentachlorobiphenyl, 2,3',4,4',5- (PCB-118)	ug/kg	Various	120[#1]			0.544	4.83	0.567	0.363	0.325	0.362	0.264	0.619	0.313	1.58	1.2	0.92	1.06	0.796
Pentachlorobiphenyl, 2,3,4,4,5- (PCB 123)	ug/kg	Various	120[#1]			0.0217	0.151	0.0156	0.0127	0.0117	0.0117	0.00997	0.0274	0.0149	0.0373	0.0275	0.0217	0.0312	0.0263
Pentachlorobiphenyl, 3,3,4,4,5- (PCB 126)	ug/kg	Various	0.036[#1]			0.0101	0.157	0.00867	0.00823	0.00682	0.00849	0.00433	0.0221	0.00915	0.0117	0.0149	0.00488	0.0118	0.00706
Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 156)	ug/kg	Various	120[#1]			0.156	1.17	0.112	0.0878	0.0818	0.094	0.0673	0.213	0.0844	0.262	0.231	0.183	0.215	0.157
Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 157)	ug/kg	Various	120[#1]			0.0388	0.341	0.0308	0.0235	0.0201	0.0239	0.0174	0.0633	0.0228	0.0602	0.0511	0.0388	0.0497	0.0346
Hexachlorobiphenyl, 2,3,4,4,5,5- (PCB 167)	ug/kg	Various	120[#1]			0.0689	0.632	0.0498	0.0395	0.0358	0.0418	0.0293	0.0941	0.0352	0.0995	0.0983	0.0758	0.0844	0.064
Hexachlorobiphenyl, 3,3,4,4,5,5- (PCB 169)	ug/kg	Various	0.12[#1]			0.000301	0.0132	0.00159	0.00258	0.00209	0.00156	0.000585	0.00177	0.00115	<0.000353	0.000258	0.000545	<0.000204	0.00046
Heptachlorobiphenyl, 2,3,3,4,4,5,5- (PCB 189)	ug/kg	Various	130[#1]			0.0223	0.131	0.0132	0.0127	0.0131	0.0128	0.0105	0.0256	0.0107	0.023	0.0288	0.0192	0.0223	0.0169
Chlorinated Dioxins and Furans																			
2378-TCDF	ng/kg	Various				<0.492	4.63	4.44	7.24	3.78	5.17	<0.62	<0.587	<0.339	<0.664	<0.539	<0.601	<0.734	<0.543
12378-PeCDD	ng/kg	Various				<0.591	0.526	<0.607	3.81	3.09	<0.571	<0.546	1.29	0.686	7.21	0.96	<0.458	<0.624	<0.521
123478-HxCDD	ng/kg	Various				<0.706	0.853	<0.662	2.64	2.42	2.24	1.1	1.69	0.804	18.6	1.49	0.918	1.19	1.21
123678-HxCDD	ng/kg	Various				2.5	5.28	2.7	4.74	4.83	4.35	1.86	10	3.63	33.5	6.11	2.63	4.55	3.34
123789 HxCDD	ng/kg	Various				3.32	3.06	1.77	3.17	3.46	3.28	1.16	4.27	2.98	36.4	4.33	<0.541	3.16	1.64
1234678-HpCDD	ng/kg	Various				166	104	89.5	83.3	83.6	95.6	79.1	266	97.7	1,350	191	128	170	121
OCDD	ng/kg	Various				1,370	736	526	600	543	68.1	545	2,090	705	10,200	1,440	964	1,230	844
OCDF	ng/kg	Various				84	132	145	36.2	28.1	34.6	29.1	52.9	21.7	74.6	59.1	35.4	50.9	34.5
2378-TCDD	ng/kg	Various				<0.469	<0.273	<0.494	<0.551	<0.517	<0.681	<0.534	<0.34	<0.247	<0.289	<0.213	<0.186	<0.234	<0.214
12378-PeCDF	ng/kg	Various				1.14	3.77	1.25	5.44	4.04	4.28	1.29	2.65	1.37	<0.362	3.04	<0.314	<0.445	<0.315
23478-PeCDF	ng/kg	Various				2.25	4.45	4.59	8.17	7.28	7.62	4.7	3.91	2.93	0.725	3.26	1.77	<0.372	2.58
123478-HxCDF	ng/kg	Various				<0.448	5.64	3.75	7.34	6.17	5.9	4.54	5.08	2.65	1.91	3.23	<0.247	1.88	1.32
123678-HxCDF	ng/kg	Various				1.71	4.7	5.02	6.64	5.01	4.98	4.2	4.44	0.919	<0.335	2.85	<0.251	<0.315	2.01
234678-HxCDF	ng/kg	Various				2.61	5.5	4.61	7.86	4.68	6.32	4	4.86	2.62	0.85	4.16	<0.218	3.62	<0.221
123789-HxCDF	ng/kg	Various				<0.455	0.678	<0.797	0.546	0.354	<0.52	<0.447	0.483	0.495	<0.368	<0.368	<0.275	<0.346	<0.265
1234678-HpCDF	ng/kg	Various				50.5	198	147	50.8	36.1	46.8	34	47.9	21.2	42.2	38.3	21.8	28.1	18.9
1234789-HpCDF	ng/kg	Various				1.77	3.05	1.01	1.91	1.15	1.78	0.872	2.28	1.17	3.16	1.94	0.803	1.31	<0.517
Brominated Dioxins and Furans																			
2378-TBDD	ng/kg	Various				<0.84	<0.82	<0.85	<0.83	<0.83	<0.84	<0.83	<0.84	<0.82	<0.77	<0.8	<0.8	<0.77	<0.8
12378-PBDD	ng/kg	Various				<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.8	<0.78	<0.8	<0.8	<0.8
123478-HxBDD	ng/kg	Various				<0.84	<0.83	<0.85	<0.84	<0.84	<0.82	<0.85	<0.84	<0.82	<0.8	<0.8	<0.78	<0.81	<0.77
123678-HxBDD	ng/kg	Various				<0.84	<0.84	<0.84	<0.84	<0.84	<0.84	<0.84	<0.84	<0.84	<0.76	<0.78	<0.78	<0.78	<0.78
123789-HxBDD	ng/kg	Various				<0.82	<0.81	<0.86	<0.83	<0.8	<0.84	<0.82	<0.81	<0.84	<0.78	<0.75	<0.79	<0.77	<0.77
1234678-HpBDD	ng/kg	Various				<0.83	0.97	0.86	<0.85	<0.81	<0.85	<0.82	<0.82	<0.82	<0.8	<0.83	<0.82	<0.82	<0.82
OBDD	ng/kg	Various				<0.82	<0.86	<0.84	<0.82	<0.84	<0.81	<0.84	<0.85	<0.83	<0.82	<0.81	<0.8	<0.8	<0.81
2378-TBDF	ng/kg	Various				3.65	8.77	8.12	3.19	2.3	2.96	2.19	2.93	1.34	2.91	1.76	0.89	1.3	<0.79
12378-PBDF	ng/kg	Various				3.1	6.19	6.02	2.18	1.57	1.9	1.35	1.46	0.89	1.06	1.28	1.31	1.01	1.07
23478-PBDF	ng/kg	Various				1.49	3.8	4.49	1.39	1.44	1.13	1.05	1.39	0.93	0.77	1.25	1.09	1.65	0.92
123478-HxBDF	ng/kg	Various				1.28	2.71	3.16	1.05	1.16	0.92	1.33	0.89	<0.84	0.69	0.8	<0.79	0.91	<0.79
123678-HxBDF	ng/kg	Various				1.05	2.29	3.08	1	<0.8	<0.83	0.87	1.41	<0.83	1.04	1.33	<0.8	0.88	<0.8
234678-HxBDF	ng/kg	Various				<0.85	1.17	1.02	<0.85	<0.83	<0.83	<0.83	<0.83	<0.83	<0.81	<0.8	<0.76	<0.78	<0.76
123789-HxBDF	ng/kg	Various				<0.83	0.88	<0.83	<0.84	<0.85	<0.84	<0.84	<0.84	<0.84	<0.8	<0.84	<0.8	<0.8	<0.8
1234678-HpBDF	ng/kg	Various				<0.82	<0.82	<0.82	<0.82	<0.84	<0.84	<0.84	<0.85	<0.85	<0.8	<0.8	1.11	<0.8	1.34
1234789-HpBDF	ng/kg	Various				<0.83	<0.81	<0.84	<0.82	<0.84	<0.82	<0.82	<0.82	<0.85	<0.84	<0.78	<0.79	<0.79	<0.78
OBDF	ng/kg	Various				<0.85	<0.85	<0.85	<0.85	<0.82	<0.82	<0.84	<0.85	<0.85	<0.82	<0.85	<0.84	<0.81	<0.83
Organophosphorous flame retardants																			
Triphenylphosphate	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tris(1-chloro-2-propyl)phosphate	mg/kg	Various	630[#1]			<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.2	<0.2	<0.5	<0.2
Tris(2-ethylhexyl) phosphate	mg/kg	0.1	170[#1]			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	Location	GTCS 1-05	GTCS 1-06	GTCS 1-07	GTCS 1-08				GTCS 1-09	GTCS 1-10	GTCS 1-11	GTCS 1-12			
					Date	06/06/2019	06/06/2019	06/06/2019	06/06/2019				06/06/2019	06/06/2019	06/06/2019	06/06/2019			
					Sample Type	Normal	Normal	Normal	Normal	Field_D			Normal	Normal	Normal	Normal	Field_D		
					Sample Area	Lancaster West Walkways	Lancaster West Walkways	Treadgold House	Treadgold House	Treadgold House	Treadgold House	Treadgold House	Verity Close	Verity Close	Morland House	Morland House	Morland House	Morland House	Morland House
					Field ID	GTCS 1-05A	GTCS 1-06A	GTCS 1-07A	GTCS 1-08 PRIMARY SAMPLE	GTCS 1-08 FIELD DUPLICATE	GTCS 1-08 LAB DUPLICATE	GTCS 1-08 LAB FIELD DUPLICATE	GTCS 1-09A	GTCS 1-10A	GTCS 1-11A	GTCS 1-12 PRIMARY SAMPLE	GTCS 1-12 FIELD DUPLICATE	GTCS 1-12 LAB DUPLICATE	GTCS 1-12 LAB FIELD DUPLICATE
					Sample_Depth_Range	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
Brominated flame retardents (PBDEs)																			
2,2",4-tribromodiphenyl ether (BDE-17)	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,4"-tribromodiphenyl ether (BDE-28)	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4"-tetrabromodiphenyl ether (BDE-47)	mg/kg	0.1	6.3[#1]			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,3",4,4"-tetrabromodiphenyl ether (BDE-66)	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",3,4,4"-pentabromodiphenyl ether (BDE-85	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4",5-pentabromodiphenyl ether (BDE-99	mg/kg	0.1	6.3[#1]			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4",6-pentabromodiphenyl ether (BDE-10	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",3,4,4",5"-hexabromodiphenyl ether(BDE-1	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4",5,5"-hexabromodiphenyl ether(BDE-1	mg/kg	0.1	13[#1]			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4",5,6"-hexabromodiphenyl ether(BDE-1	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2,3,4,4,5,6-heptabromodiphenyl ether (BDE-1	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polybrominated biphenyls (PBBs)																			
2,2-dibromobiphenyl (PBB 4)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4,4-dibromobiphenyl (PBB 15)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,2,5-tribromobiphenyl (PBB 18)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
tetrabromobiphenyl (3,3,5,5-) (PBB 80)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexabromobiphenyl (PBB 153)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrabromobisphenol A																			
tetrabromobisphenol A	mg/kg	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexabromocyclododecane (HBCDD)																			
Hexabromocyclododecane (HBCDD)	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isocyanates																			
Isocyanic Acid	ug/kg	250				<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Methyl Isocyanate	ug/kg	250	4,600[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Ethyl Isocyanate	ug/kg	250				<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Propyl Isocyanate	ug/kg	250				<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Phenyl Isocyanate	ug/kg	250				<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Hexamethylene diisocyanate	ug/kg	250	3,100[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
2,4-Toluene diisocyanate	ug/kg	250	6,400[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
2,6-Toluene diisocyanate	ug/kg	250	5,300[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Isophorone Diisocyanate	ug/kg	500				<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500
4,4-Methylene-bis(phenyl-isocyanate)	ug/kg	250	850,000,000[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Cyanides																			
Cyanide (Free)	mg/kg	0.5	20[#5]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5
Cyanide Total	mg/kg	0.5	78[#1]			<0.5	<0.5	<0.5	0.8	0.9	0.8	0.8	<0.5	<0.5	1	0.7	<0.5	<0.5	0.6
Thiocyanate	mg/kg	0.6	20[#5]			1.2	1	1.1	1.7	1.6	1.9	2	0.7	1.7	1	1.7	1.7	1.8	1.7
Asbestos																			
General Description (Bulk Analysis)	None					Soil/Stone	Soil/Stone	soil.stones	Soil/Stones	Soil/Stones	Soil/Stones	soil.stones	soil.stones	soil.stones	soil/stones	soil/stones	soil-stones	soil/stones	soil/stones
Asbestos Fibres	None					Fibre Bundles	NAD	NAD	NAD	Fibre Bundles	NAD	NAD	NAD	NAD	NAD	NAD	Fibre Bundles	NAD	NAD
Asbestos ACM	None					NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Asbestos Type	None					Amosite	NAD	NAD	NAD	Chrysotile	NAD	NAD	NAD	NAD	NAD	NAD	Chrysotile	NAD	NAD
Asbestos Level Screen						less than 0.1%	NAD	NAD	NAD	less than 0.1%	NAD	NAD	NAD	NAD	NAD	NAD	less than 0.1%	NAD	NAD
Potentially Respirable Fibres per gram	f/g	0				0	-	-	-	0	-	-	-	-	-	-	0	-	-
SVF / MMMF																			
Synthetic/MMMF	None					Present	Present	Present	Absent	Present	Absent	Present	Absent	Absent	Present	Present	Present	Present	Present
Asbestos Quantification																			
Asbestos Gravimetric & PCOM Total	mass %	0.001				<0.001	-	-	-	<0.001	-	-	-	-	-	-	<0.001	-	-
Asbestos PCOM Quantification (Fibres)	mass %	0.001				<0.001	-	-	-	<0.001	-	-	-	-	-	-	<0.001	-	-
Total ACM Gravimetric Quantification (% Asb)	mass %	0.001				<0.001	-	-	-	<0.001	-	-	-	-	-	-	<0.001	-	-
Total Detailed Gravimetric Quantification (% As	mass %	0.001				<0.001	-	-	-	<0.001	-	-	-	-	-	-	<0.001	-	-
Asbestos Quantification - Total - %	mass %	0.001				<0.001	-	-	-	<0.001	-	-	-	-	-	-	<0.001	-	-
Total Organic Carbon																			
TOC	percent	0.02				3.43	3.16	6.72	5.93	5.62	5.87	5.16	3.79	2.99	6.59	7.82	8.21	8.35	9.17
Inorganics																			
pH (Lab)	pH units	0.01				6.99	7.21	7.76	7.9	7.86	7.96	7.97	7.23	6.65	7.65	7.47	7.54	7.45	7.25
Other																			
Natural Moisture Content	percent	0.1				10.3	16.2	6.8	9.1	9.7	9.4	10	10.2	10	22.2	22.1	15.8	20.8	13.6
ESdat Calculated																			
Cresols Total	ug/kg	20	180[#3]			<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Benzo(a)pyrene (surrogate marker for PAH mix	mg/kg	0.01	5.0[#6]			2.29	1.24	1.67	0.93	0.99	0.82	0.92	0.75	0.34	0.93	0.63	0.72	0.72	0.72
Xylene Total	ug/kg	8	130,000[#2]			<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Trichlorobenzene (total)	ug/kg	14	2200[#5]			<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
AECOM Calculated																			
Sum of PCDD/F +PCB12	ng/kg	Various	8700[#4]			2972	11309	2097	1619	1445	1083	1288	3967	1563	14761	4101	2952	3603	2601
PCDD/F+PBDD/F+PCB12 Hazard Index	-	-	1			0.07	0.32	0.1	0.14				0.13	0.06	0.34	0.09			
WHO2005 TEQ (PCDD/F + PBDD/F + PCB)	ng/kg	Various				6.539	27.646	10.245	13.925	11.438	8.816	5.71	12.723	5.845	35.585	9.383	3.719	5.899	4.48

Comments
#1 USEPA RSL (May 2019)
#2 LQM/CIEH S4ULs 2015
#3 EIC/AGS/CL:AIRE 2010
#4 EA SGV 2009
#5 Dutch IV 2013
#6 Defra C4SL 2014
#7 AECOM (modified EIC GAC to include plant uptake route)
GSC based on residential (with private gardens) land use scenario
2.5% soil organic matter content selected for GSC #2 and #3
(blank): No assessment criteria available
 - : Not analysed
Field_D: Field Duplicate
NAD: No Asbestos Detected

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration																	
Location					GTCS 1-13	GTCS 1-14	GTCS 1-15	GTCS 1-16	GTCS 1-17	GTCS 1-18				GTCS 1-19	GTCS 1-20	GTCS 1-21	GTCS 1-22	GTCS 1-23			
Date					07/06/2019	07/06/2019	07/06/2019	07/06/2019	05/06/2019	05/06/2019				05/06/2019	05/06/2019	05/06/2019	05/06/2019	05/06/2019			
Sample Type					Normal	Normal	Normal	Normal	Normal	Normal	Field_D			Normal	Normal	Normal	Normal	Normal	Field_D		
Sample Area					Allom House and Barlow House	Allom House and Barlow House	Camelford Walk	Camelford Walk	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Henry Dickens Estate	Henry Dickens Estate	Avondale Park	Avondale Park	Avondale Park Gardens	Avondale Park Gardens	Avondale Park Gardens	Avondale Park Gardens
Field ID					GTCS 1-13A	GTCS 1-14A	GTCS 1-15A	GTCS 1-16A	GTCS 1-17A	GTCS 1-18 PRIMARY SAMPLE	GTCS 1-18 FIELD DUPLICATE	GTCS 1-18 LAB DUPLICATE	GTCS 1-18 LAB FIELD DUPLICATE	GTCS 1-19A	GTCS 1-20A	GTCS 1-21A	GTCS 1-22A	GTCS 1-23 PRIMARY SAMPLE	GTCS 1-23 FIELD DUPLICATE	GTCS 1-23 LAB DUPLICATE	GTCS 1-23 LAB FIELD DUPLICATE
Sample_Depth_Range					0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
Metals																					
Aluminium	mg/kg	50	77,000[#1]		7,777	8,281	11,650	11,400	9,583	15,320 - 18,258	17,423 - 18,250	16,350 - 19,022	16,400 - 19,023	8,970	10,260	10,030	11,170	12,090	9,670 - 12,510	11,560	11,124 - 11,210
Arsenic	mg/kg	0.5	37[#6]	***32***	10.6	12.4	9	14.8	27	***38.5 - 47.4***	***50.7 - 58.6***	***39.7 - 55.4***	***46.6 - 61.5***	16.7	19.2	13.9	15.4	18.4	17.2 - 20.2	19.1	16.3 - 19.3
Barium	mg/kg	1	460[#7]		89	140	135	225	272	815 - 991	866 - 945	885 - 948	883 - 944	171	249	186	138	540	486 - 613	564	517 - 560
Beryllium	mg/kg	0.5	1.7[#2]		0.7	0.8	0.9	1.3	2.1	3.5 - 4	3.9 - 4.1	3.6 - 4.1	3.7 - 4	1.1	1.4	1.1	1	1.3	1.1 - 1.3	1.3	1.2
Boron	mg/kg	0.1	290[#2]		0.9	1.2	1.3	1.8	1.8	3.7 - 4.3	3.5 - 3.8	3.3 - 4.3	3.5 - 3.7	2	3.5	4.5	3.8	6.4	4.2 - 7.4	6.1	4.9 - 6.5
Cadmium	mg/kg	0.1	22[#6]	***2.1***	0.4	0.4	0.7	1.1	0.9	1.6 - 2	***1.9 - 7***	1.8 - 2.1	1.9 - 2.1	1.1	0.8	1.1	0.9	0.9	0.6 - 0.8	0.8	0.6 - 0.8
Chromium (Trivalent)	mg/kg	0.5	910[#2]		102.5	94	145.2	117.6	80.9	52.6 - 59.9	57.4 - 57.8	57.1 - 59.6	54.1 - 63.4	69.3	117.8	66.9	72	71.5	28.3 - 30.6	71.1	30.1 - 31
Chromium (hexavalent)	mg/kg	0.3	21[#6]		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium (III+VI)	mg/kg	0.5	Use either CrIII or CrVI[#2]		102.5	94	145.2	117.6	80.9	52.6 - 59.9	57.4 - 57.8	57.1 - 59.6	54.1 - 63.4	69.3	117.8	66.9	72	71.5	28.3 - 30.6	71.1	30.1 - 31
Copper	mg/kg	1	2,400[#2]	***190***	24	34	33	54	183	***518 - 658***	***470 - 501***	***484 - 527***	***504 - 539***	68	90	81	58	93	79 - 86	88	79 - 92
Lead	mg/kg	5	200[#6]	***820***	101	182	141	280	492	***1,231 - 1,785***	***1,459 - 1,780***	***1,455 - 1,528***	***1,472 - 1,519***	290	434	***1,200***	168	***2,099***	***2,092 - 2,621***	***2,151***	***2,371 - 2,539***
Mercury	mg/kg	0.1	40[#2]	***1.9***	0.2	0.4	0.3	0.4	0.4	***2.4 - 4.1***	***3.1 - 3.5***	***2.4 - 4.2***	***2.6 - 3.3***	0.8	0.6	0.9	0.3	0.8	0.5 - 0.9	1.8	0.4 - 0.8
Nickel	mg/kg	0.7	130[#2]	***42***	14.7	17.8	21	25.9	38.4	***51.9 - 62.6***	***62.1 - 73.1***	***56.8 - 61.6***	***55.4 - 85.3***	25.6	28.3	23.3	22.4	24.9	21.1 - 23.9	24.9	21.9 - 23.1
Selenium	mg/kg	1	250[#2]		<1	<1	1	<1	2	2	2	2	2	1	2	<1	1	1	<1	1	<1 - 1
Vanadium	mg/kg	1	410[#2]		36	43	49	55	66	79 - 95	90 - 92	85 - 90	79 - 92	53	58	44	44	53	51 - 59	53	53 - 59
Zinc	mg/kg	5	3,700[#2]		104	130	151	303	339	971 - 1,092	1,058 - 5,153	989 - 1,070	1,000 - 1,184	229	292	299	243	499	369 - 451	444	382 - 444
VOCs																					
1,1,1,2-tetrachloroethane	ug/kg	5	2,800[#2]		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-trichloroethane	ug/kg	5	18,000[#2]		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,2,2-tetrachloroethane	ug/kg	3	3,400[#2]		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1,2-trichloroethane	ug/kg	4	1,200[#3]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,1-dichloroethane	ug/kg	6	1,200[#3]		<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
1,1-dichloroethene	ug/kg	6	3,900[#3]		<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
1,1-dichloropropene	ug/kg	3			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2,3-trichlorobenzene	ug/kg	7	3,600[#2]		<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
1,2,3-trichloropropane	ug/kg	4	5.1[#1]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,2,4-trimethylbenzene	ug/kg	6	850[#3]		<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
1,2-dibromo-3-chloropropane	ug/kg	4	5.3[#1]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,2-dibromoethane	ug/kg	3	36[#1]		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2-dichloroethane	ug/kg	5	11[#2]		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-dichloropropane	ug/kg	4	42[#3]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,3,5-trimethylbenzene	ug/kg	3	270,000[#1]		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,3-dichloropropane	ug/kg	4	1,600,000[#1]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
2,2-dichloropropane	ug/kg	4			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
2-chlorotoluene	ug/kg	3	1,600,000[#1]		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
4-chlorotoluene	ug/kg	3	1,600,000[#1]		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Benzene	ug/kg	5	870[#6]		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromobenzene	ug/kg	2	2,000[#3]		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Bromochloromethane	ug/kg	4	150,000[#1]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromodichloromethane	ug/kg	4	290[#1]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromoform	ug/kg	4	5,900[#3]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	ug/kg	1	6,800[#1]		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3-Methyl butanal	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/kg	4	56[#2]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chlorobenzene	ug/kg	4	1,000[#2]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chlorodibromomethane	ug/kg	5	8,300[#1]		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	ug/kg	6	11,000[#3]		<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
Chloroform	ug/kg	5	1,700[#2]		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloromethane	ug/kg	3	9.8[#3]		5	5	5	11	9	26	11	14	19	12	21	7	8	16	11	18	34
cis-1,2-dichloroethene	ug/kg	7	190[#3]		<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
cis-1,3-dichloropropene	ug/kg	4			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromomethane	ug/kg	4	24,000[#1]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dichlorodifluoromethane	ug/kg	2	87,000[#1]		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloromethane	ug/kg	30	980[#3]		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Ethylbenzene	ug/kg	3	110,000[#2]		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	3	<3	3	3
Eucalyptol	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	ug/kg	3	27,000[#3]		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Methyl Methacrylate	ug/kg	100	4,400,000[#1]		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MTBE	ug/kg	6	84,000[#3]		<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
n-butylbenzene	ug/kg	4	3,900,000[#1]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
n-propylbenzene	ug/kg	4	82,000[#3]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
sec-butylbenzene	ug/kg	4	7,800,000[#1]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/kg	3	19,000[#3]		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
tert-butylbenzene	ug/kg	5	7,800,000[#1]		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethene	ug/kg	3	390[#2]		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Toluene	ug/kg	3	290,000[#2]		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
trans-1,2-dichloroethene	ug/kg	3	340[#3]		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
trans-1,3-dichloropropene	ug/kg	3			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Trichloroethene	ug/kg	5	34[#2]		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichlorofluoromethane	ug/kg	3	23,000,000[#1]		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Undecane	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene (m & p)	ug/kg	4			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Xylene (o)	ug/kg	4	140,000[#2]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vinyl chloride	ug/kg	2	0.87[#2]		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
VOC TICs	None				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trihalomethanes	ug/kg				<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration																	
Location					GTCS 1-13	GTCS 1-14	GTCS 1-15	GTCS 1-16	GTCS 1-17	GTCS 1-18				GTCS 1-19	GTCS 1-20	GTCS 1-21	GTCS 1-22	GTCS 1-23			
Date					07/06/2019	07/06/2019	07/06/2019	07/06/2019	05/06/2019	05/06/2019				05/06/2019	05/06/2019	05/06/2019	05/06/2019	05/06/2019			
Sample Type					Normal	Normal	Normal	Normal	Normal	Normal	Field_D			Normal	Normal	Normal	Normal	Normal	Field_D		
Sample Area					Allom House and Barlow House	Allom House and Barlow House	Camelford Walk	Camelford Walk	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Henry Dickens Estate	Henry Dickens Estate	Avondale Park	Avondale Park	Avondale Park Gardens	Avondale Park Gardens	Avondale Park Gardens	Avondale Park Gardens
Field ID					GTCS 1-13A	GTCS 1-14A	GTCS 1-15A	GTCS 1-16A	GTCS 1-17A	GTCS 1-18 PRIMARY SAMPLE	GTCS 1-18 FIELD DUPLICATE	GTCS 1-18 LAB DUPLICATE	GTCS 1-18 LAB FIELD DUPLICATE	GTCS 1-19A	GTCS 1-20A	GTCS 1-21A	GTCS 1-22A	GTCS 1-23 PRIMARY SAMPLE	GTCS 1-23 FIELD DUPLICATE	GTCS 1-23 LAB DUPLICATE	GTCS 1-23 LAB FIELD DUPLICATE
Sample_Depth_Range					0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
SVOCs																					
Dibenzo[a,e]pyrene	ug/kg	100	42#1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-methylnaphthalene	ug/kg	10	240.000#1		<10	21	17	<10	22	74	72	75	195	87	98	43	21	162	126	141	116
4-bromophenyl phenyl ether	ug/kg	10			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-chlorophenyl phenyl ether	ug/kg	10			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Azobenzene	ug/kg	10	5.600#1		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bis(2-chloroethoxy) methane	ug/kg	10	190.000#1		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bis(2-chloroethyl)ether	ug/kg	10	230#1		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbazole	ug/kg	10			35	69	76	80	25	53	58	53	54	250	296	61	39	329	226	451	291
Dibenzofuran	ug/kg	10	73.000#1		<10	17	19	22	21	38	36	36	60	89	142	28	15	139	136	164	132
Hexachlorobutadiene	ug/kg	4	700#2		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hexachlorocyclopentadiene	ug/kg	10	1.800#1		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexachloroethane	ug/kg	10	480#3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Anilines																					
2-nitroaniline	ug/kg	10	630.000#1		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3-nitroaniline	ug/kg	10			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-chloroaniline	ug/kg	10	2.700#1		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-nitroaniline	ug/kg	10	27.000#1		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Amino Aliphatics																					
N-nitrosodi-n-propylamine	ug/kg	10	78#1		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Explosives																					
2,4-Dinitrotoluene	ug/kg	10	3.200#3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,6-dinitrotoluene	ug/kg	10	1.700#3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nitrobenzene	ug/kg	10	5.100#1		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Phenolics																					
2,4-dimethylphenol	ug/kg	10	43.000#3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-chloronaphthalene	ug/kg	10	9.200#3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-methylphenol	ug/kg	10	Use Cresols Total#3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-nitrophenol	ug/kg	10			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-chloro-3-methylphenol	ug/kg	10	6.300.000#1		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-methylphenol	ug/kg	10	Use Cresols Total#3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-nitrophenol	ug/kg	10			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phenol	ug/kg	10	200.000#2		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Halogenated Phenols																					
2,4,5-trichlorophenol	ug/kg	10	6.300.000#1		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4,6-trichlorophenol	ug/kg	10	49.000#1		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4-dichlorophenol	ug/kg	10	190.000#1		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-chlorophenol	ug/kg	10	390.000#1		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Pentachlorophenol	ug/kg	10	520#2		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Halogenated Benzenes																					
1,2,4-trichlorobenzene	ug/kg	7	6.400#2		<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
1,2-dichlorobenzene	ug/kg	4	55.000#2		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,3-dichlorobenzene	ug/kg	4	1.000#2		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,4-dichlorobenzene	ug/kg	4	150.000#2		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hexachlorobenzene	ug/kg	10	3.300#2		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Phthalates																					
Bis(2-ethylhexyl) phthalate	ug/kg	100	610.000#3		<100	120	1,106	459	587	567	634	639	731	418	287	571	1,546	399	307	394	337
Butyl benzyl phthalate	ug/kg	100	3.300.000#3		<100	<100	<100	<100	135	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Diethylphthalate	ug/kg	100	260.000#3		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Dimethyl phthalate	ug/kg	100	16.400#5		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Di-n-butyl phthalate	ug/kg	100	31.000#3		<100	<100	<100	<100	<100	<100	453	177	119	<100	<100	<100	<100	<100	<100	<100	<100
Di-n-octyl phthalate	ug/kg	100	2.800.000#3		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SVOC - Solvents																					
Isophorone	ug/kg	10	570.000#1		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC TIC																					
SVOC TICs	None				0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.alpha.-Phellandrene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.alpha.-Pinene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.beta.-Guaiene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
[1,1-Biphenyl]-4-carboxaldehyde	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1(2Aminobenzylidene)1234-tetrahydroacridineN	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl, 2,3,3,4-tetrachloro-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl, 2,3,3,5-tetrachloro-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl, 2,3,4,6-tetrachloro-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-die	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	574
1,2,9,10-Dibenzopyrene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,5,5-Trimethyl-6-methylene-cyclohexene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,6-Dimethylphenazine	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10,18-Bisnorabieta-5,7,9(10),11,13-pentaene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10,18-Bisnorabieta-8,11,13-triene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10s,11s-Himachala-3(12),4-diene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11H-Benzo[a]carbazole	ug/kg	100			-	-	-	-	-	-	-	-	-	518	-	-	-	-	-	515	-
11H-Benzo[a]fluoren-11-one	ug/kg	100			-	-	-	-	-	-	-	-	-	299	152	-	-	-	1,038	540	900
11H-Benzo[a]fluoren-11-one, 10-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11H-Benzo[a]fluorene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11H-Benzo(b)fluorene	ug/kg	100			-	-	-	-	-	-	-	-	-	307	203	-	-	-	872	718	821
11H-Indeno(1,2-b)quinoline	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13-Docosenamide, (Z)-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13-Isopropylpodocarpen-12-ol-20-al	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Cyclopropa[l]phenanthrene,1a,9b-dihydro-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	368	-	-	-
1-Methyldibenzothiophene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Naphthalenecarboxylic acid, 2-benzoyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-(2H-Benzotriazol-2-yl)-5-methylphenol	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-(Acetoxymethyl)-3-(methoxycarbonyl)bipheny	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix TN18-A
Table A
Tabulated Laboratory Data

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration																		
					Location	GTCS 1-13	GTCS 1-14	GTCS 1-15	GTCS 1-16	GTCS 1-17	GTCS 1-18				GTCS 1-19	GTCS 1-20	GTCS 1-21	GTCS 1-22	GTCS 1-23			
					Date	07/06/2019	07/06/2019	07/06/2019	07/06/2019	05/06/2019	05/06/2019				05/06/2019	05/06/2019	05/06/2019	05/06/2019	05/06/2019			
					Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Field_D			Normal	Normal	Normal	Normal	Normal	Field_D		
					Sample Area	Allom House and Barlow House	Allom House and Barlow House	Camelford Walk	Camelford Walk	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Henry Dickens Estate	Henry Dickens Estate	Avondale Park	Avondale Park	Avondale Park Gardens	Avondale Park Gardens	Avondale Park Gardens	Avondale Park Gardens
					Field ID	GTCS 1-13A	GTCS 1-14A	GTCS 1-15A	GTCS 1-16A	GTCS 1-17A	GTCS 1-18 PRIMARY SAMPLE	GTCS 1-18 FIELD DUPLICATE	GTCS 1-18 LAB DUPLICATE	GTCS 1-18 LAB FIELD DUPLICATE	GTCS 1-19A	GTCS 1-20A	GTCS 1-21A	GTCS 1-22A	GTCS 1-23 PRIMARY SAMPLE	GTCS 1-23 FIELD DUPLICATE	GTCS 1-23 LAB DUPLICATE	GTCS 1-23 LAB FIELD DUPLICATE
					Sample_Depth_Range	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
2,3,3,,5,6-Pentachloro-1,1-biphenyl	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,3,6-Tetrachloro-1,1-biphenyl	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6-Tetrachloro-1,1-biphenyl	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Cycloheptatrien-1-one, 2-phenyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dimethyldibenzothiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,9-Dimethyl-2,3,4,5,6,7hexahydro-1H-2-benza	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	425
2-Bromo-4,5-dimethoxycinnamic acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2Chloro2methyl1oxa2sila-1,2-dihydronaphthale	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylchrysene	ug/kg	100				-	-	-	-	-	-	-	-	-	358	-	126	-	-	-	-	-
2-Propenal, 3-(4-hydroxy-3-methoxyphenyl)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3-Dimethylbiphenyl	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,4:8,9-Dibenzopyrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,4-Dichlorobenzonitrile	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,5-Dimethoxy-4-hydroxycinnamaldehyde	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Bromo-5-ethoxy-4-hydroxybenzaldehyde	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4-Bis(tetrahydrothiopyran)	ug/kg	100				-	-	-	-	-	-	-	-	-	528	200	-	-	2,508	-	756	1,225
4H-Cyclopenta[def]phenanthrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	399	-	-	-	-	1,061	1,286
6H-Benz[de]anthracen-6-one	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7H-Benz(de)anthracen-7-one	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8,9-Dihydro-7H-cyclopenta[a]pyrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,728
9,10-Anthracenedione	ug/kg	100	14.000[#1]			-	-	-	-	-	-	-	-	-	-	183	-	-	389	419	289	298
9,10-Anthracenedione, 2-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9,10-Bis(bromomethyl)anthracene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	451	-	-
9,10-Dimethylanthracene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	232	-	-
9-Anthracenecarbonitrile	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	191	-	-
9H-Cyclopenta[a]pyrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,942	-	-
9H-Fluoren-9-ol	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluoren-9-one	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluorene, 1-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluorene, 2-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluorene, 9-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Abietic acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alloaromadendrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthra(1,2-b)thiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	412	-	-	-	-	923	-	1,213
Anthra(2,3-b)thiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene, 1-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	413	-	-	-	-	296	-	473
Anthracene, 2-ethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene, 2-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	544	-	-
Aromandendrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz(A)anthracene-7,12-dione	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz(a)anthracene-7-carbonitrile	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz[a]anthracene, 12-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz[a]anthracene, 1-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,040	-
Benz[a]anthracene, 7-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz[j]aceanthrylene, 3-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde, 4-hydroxy-3,5-dimethoxy-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzenamine, 2,4,6-tribromo-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, (4,5,5-trimethyl-1,3-cyclopentadien-1-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Sulfonylbis (4-chlorobenzene)	ug/kg	100	51.000[#1]			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzenesulfonamide, 4-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]naphtho[1,2-d]furan	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(c)carbazole	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	765	-	-
Benzo[b]naphtho[1,2-d]thiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]naphtho[2,1-d]thiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	509	346	-	-	2,312	1,041	1,024	-
Benzo[b]naphtho[2,3-d]furan	ug/kg	100				-	-	-	-	-	-	-	-	-	340	357	-	-	1,417	757	659	933
Benzo[b]naphtho[2,3-d]thiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]triphenylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,301	-	-
Benzo[c]cinnoline	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[c]phenanthrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(e)pyrene	ug/kg	100				-	848	-	1,177	1,150	235	-	-	-	-	1,037	-	318	10,148	5,869	-	15,183
Benzo[ghi]fluoranthene	ug/kg	100				-	-	-	-	-	-	-	-	-	1,395	-	-	-	-	-	-	-
Benzo[h]quinoline, 2,4-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[kl]xanthene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	598	-	-
Benzoic acid, hexyl ester	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl	ug/kg	100	160.000[#3]			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylated Hydroxytoluene	ug/kg	100	150.000[#1]			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Camphor (TIC)	ug/kg	100				-	-	-	-	-	-	491	-	-	-	-	-	-	-	-	-	-
Chrysene, 1-methyl-	ug/kg	100				-	-	-	-	-	-	-	134	170	-	304	-	-	2,567	1,163	685	-
Chrysene, 5-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene, 6-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopenta(cd)pyrene, 3,4-dihydro-	ug/kg	100				-	-	-	-	-	-	-	-	-	708	-	-	-	3,954	-	1,582	-
Cyclopenta(def)phenanthrenone	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	1,456	1,002	492	696
Dehydroabietic acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-Homoandrostane, (5.alpha.,13.alpha.)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,e)aceanthrylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,i)pyrene	ug/kg	100				-	-	-	-	-	-	-	-	-	676	776	-	-	-	-	-	-
Dibenzo[def,mno]chrysene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	2,785	-	-	-
Dibenzofuran, 4-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzothiophene	ug/kg	100	780.000[#1]			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	312	-
Dibenzothiophene, 3-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzothiophene, 4,6-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dicyclohexyl phthalate	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diphenyl sulfide	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
di-p-Tolylacetylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	576	477	-	258
D-Limonene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Eicosane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	1,737	-	-	3,426	-	-
Ferruginol	ug/kg	100				-	-	-	-	367	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene, 2-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	1,013	521	-	-	4,555	858	1,960	2,325
Fluorene, 2,4a-dihydro-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heneicosane	ug/kg	100				-	954	-	-	-	-	-	-	-	-	-	-	-	6,918	-	-	-
Heneicosane, 3-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	643	-	-
Heptadecane	ug/kg	100				-	-	-	-	-	205	-	-	-	-	-	594	-	-	-	-	-
Hexadecane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexathiane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	GTCS 1-13	GTCS 1-14	GTCS 1-15	GTCS 1-16	GTCS 1-17	GTCS 1-18				GTCS 1-19	GTCS 1-20	GTCS 1-21	GTCS 1-22	GTCS 1-23			
Date					07/06/2019	07/06/2019	07/06/2019	07/06/2019	05/06/2019	05/06/2019				05/06/2019	05/06/2019	05/06/2019	05/06/2019	05/06/2019			
Sample Type					Normal	Normal	Normal	Normal	Normal	Normal	Field_D			Normal	Normal	Normal	Normal	Normal	Field_D		
Sample Area					Allom House and Barlow House	Allom House and Barlow House	Camelford Walk	Camelford Walk	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Henry Dickens Estate	Henry Dickens Estate	Avondale Park	Avondale Park	Avondale Park Gardens	Avondale Park Gardens	Avondale Park Gardens	Avondale Park Gardens
Field ID					GTCS 1-13A	GTCS 1-14A	GTCS 1-15A	GTCS 1-16A	GTCS 1-17A	GTCS 1-18 PRIMARY SAMPLE	GTCS 1-18 FIELD DUPLICATE	GTCS 1-18 LAB DUPLICATE	GTCS 1-18 LAB FIELD DUPLICATE	GTCS 1-19A	GTCS 1-20A	GTCS 1-21A	GTCS 1-22A	GTCS 1-23 PRIMARY SAMPLE	GTCS 1-23 FIELD DUPLICATE	GTCS 1-23 LAB DUPLICATE	GTCS 1-23 LAB FIELD DUPLICATE
Sample_Depth_Range					0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
Indene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	1,027	-	-	-
Indeno[1,2,3-fg]naphthacene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indole, 5-methyl-2-(4-pyridyl)-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isocil	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
isoledene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Longifolene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl dehydroabietate	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Morpholine, 4-(1-cyclohepten-1-yl)-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,4,5-trimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,4,6-trimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,6,7-trimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	136	-	-
Naphthalene, 1,6-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,7-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,3,6-trimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,3-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,6-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,7-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2-ethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2-phenyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	729	-	-	-
Naphtho[1,2-b]thiophene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphtho[2,1,8,7-klmn]xanthene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphtho[2,1-b]thiophene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Decanoic acid	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neocuproine	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	739	-	-
Hexadecanoic Acid	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonadecane	ug/kg	100			-	-	-	1,856	-	-	-	-	-	-	1,450	-	-	-	-	-	-
n-Pentafluorosulfanyl-S,S-diphenoxysufilimine	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octadecane	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	8,766	-	-	-
Octadecane, 1-iodo-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octadecanoic Acid	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octadecanoic acid, butyl ester	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
p-Cymene	ug/kg	4			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Perylene	ug/kg	100			-	-	-	-	-	-	-	-	-	2,202	-	-	-	-	-	3,387	3,330
Phenanthrene, 1-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	440	272	-	-	849	-	600	692
Phenanthrene, 2,5-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene, 2-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	414	322	-	-	1,313	499	519	386
Phenanthrene, 3,6-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene, 4-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol, 2,6-dimethoxy-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol, 2,6-dimethoxy-4-(2-propenyl)-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol, 2-methoxy-4-(1-propenyl)-, (Z)-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene, 1,3-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	349	-	-	-	1,021	680	668	438
Pyrene, 1-methyl-	ug/kg	100			-	-	293	502	246	-	-	-	-	401	313	228	-	1,978	2,218	860	678
Pyrene, 2-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quinoxaline, 6-(3-nitrobenzylidenamino)-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Retene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	281	-	-	-	-	-
Rubicene-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloro-o-benzoquinone	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	595
Tetracosane	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,911	-
Tetradecanoic acid	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Bis(methyldichlorosilyl)ethylene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorovinylsilane	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triphenylene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	1,334	-	-	9,889	-	-	-
Triphenylene, 2-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,050	-	-
GT-SVOC-TIC-01	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-02	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-03	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-04	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-05	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-06	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-07	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-08	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-09	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-10	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-11	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-12	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-13	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-14	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-15	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-16	ug/kg	100			-	-	-	-	-	-	-	559	774	-	-	637	-	7,888	-	-	-
GT-SVOC-TIC-17	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-18	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)naphtho(1,2-d)furan	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	Location	GTCS 1-13	GTCS 1-14	GTCS 1-15	GTCS 1-16	GTCS 1-17	GTCS 1-18				GTCS 1-19	GTCS 1-20	GTCS 1-21	GTCS 1-22	GTCS 1-23			
					Date	07/06/2019	07/06/2019	07/06/2019	07/06/2019	05/06/2019	05/06/2019				05/06/2019	05/06/2019	05/06/2019	05/06/2019	05/06/2019			
					Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Field_D			Normal	Normal	Normal	Normal	Normal	Field_D		
					Sample Area	Allom House and Barlow House	Allom House and Barlow House	Camelford Walk	Camelford Walk	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Henry Dickens Estate	Henry Dickens Estate	Avondale Park	Avondale Park	Avondale Park Gardens	Avondale Park Gardens	Avondale Park Gardens	Avondale Park Gardens
					Field ID	GTCS 1-13A	GTCS 1-14A	GTCS 1-15A	GTCS 1-16A	GTCS 1-17A	GTCS 1-18 PRIMARY SAMPLE	GTCS 1-18 FIELD DUPLICATE	GTCS 1-18 LAB DUPLICATE	GTCS 1-18 LAB FIELD DUPLICATE	GTCS 1-19A	GTCS 1-20A	GTCS 1-21A	GTCS 1-22A	GTCS 1-23 PRIMARY SAMPLE	GTCS 1-23 FIELD DUPLICATE	GTCS 1-23 LAB DUPLICATE	GTCS 1-23 LAB FIELD DUPLICATE
					Sample_Depth_Range	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
PAH																						
Acenaphthene	mg/kg	0.01	510[#2]			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.13	<0.05	<0.05	0.16	0.12	0.19	0.15
Acenaphthylene	mg/kg	0.01	420[#2]			0.07	0.07	0.06	0.2	0.13	0.24	0.23	0.27	0.21	1.4	0.27	0.17	0.1	1.69	1.74	1.76	1.54
Anthracene	mg/kg	0.01	5,400[#2]			0.12	0.11	0.13	0.21	0.12	0.31	0.26	0.39	0.24	1.12	0.5	0.19	0.22	1.74	1.72	1.77	1.72
Benz(a)anthracene	mg/kg	0.01	11[#2]			0.85	0.65	0.89	1.71	0.33	1.2	0.79	1.07	0.79	4.03	1.71	0.72	0.81	5.55	6.03	5.92	5.66
Benzo(a) pyrene	mg/kg	0.01	2.7[#2]	***3.6***		0.76	0.87	0.77	1.65	0.49	1.48	1.06	1.35	1.09	***4.52***	2.04	0.9	0.95	***7.43***	***7.82***	***7.68***	***7.05***
Benzo(b)fluoranthene	mg/kg	0.01	3.3[#2]			1.09	1.16	1.17	2.28	0.63	2.25	1.63	1.98	1.61	5.93	2.6	1.21	1.26	9.25	10.06	9.91	9.05
Benzo(b)&(k)fluoranthene	mg/kg	0.01				1.51	1.61	1.62	3.16	0.88	3.12	2.26	2.75	2.24	8.23	3.61	1.68	1.75	12.85	13.97	13.77	12.57
Benzo(g,h,i)perylene	mg/kg	0.01	340[#2]			0.54	0.64	0.75	1.22	0.46	1.47	1.14	1.36	1.12	3.26	1.4	0.68	0.67	5.46	5.95	6.15	5.13
Benzo(k)fluoranthene	mg/kg	0.01	93[#2]			0.42	0.45	0.45	0.88	0.25	0.87	0.63	0.77	0.63	2.3	1.01	0.47	0.49	3.6	3.91	3.86	3.52
Chrysene	mg/kg	0.01	22[#2]			0.62	0.68	0.62	1.33	0.36	1.36	0.91	1.18	0.93	3.75	1.82	0.8	0.89	5.77	6.19	6.12	6.08
Coronene	mg/kg	0.04				0.12	0.15	0.17	0.27	0.1	0.33	0.24	0.33	0.27	0.76	0.25	0.18	0.12	1.23	1.43	1.13	0.91
Dibenz(a,h)anthracene	mg/kg	0.01	0.28[#2]			0.1	0.17	0.18	0.29	0.1	0.33	0.19	0.25	0.24	0.67	0.32	0.18	0.16	1.01	1.49	1.25	1.31
Fluoranthene	mg/kg	0.01	560[#2]			1.2	1.25	1.29	2.56	0.46	1.72	1.2	1.69	1.19	7.09	3.68	1.37	1.71	9.69	10.1	10.15	9.67
Fluorene	mg/kg	0.01	400[#2]			<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.06	<0.04	0.1	0.11	<0.04	<0.04	0.2	0.19	0.21	0.19
Indeno(1,2,3-c,d)pyrene	mg/kg	0.01	36[#2]			0.53	0.57	0.65	1.09	0.42	1.32	1.01	1.22	1.01	3.2	1.35	0.67	0.62	5.22	5.84	5.84	5.06
Naphthalene	mg/kg	0.01	5.6[#2]			<0.027	<0.027	<0.027	<0.027 - 0.05	<0.027	<0.027 - 0.07	<0.027 - 0.07	<0.027 - 0.11	<0.027 - 0.07	<0.027 - 0.15	<0.027 - 0.08	<0.027 - 0.05	<0.027	<0.027 - 0.29	<0.027 - 0.39	<0.027 - 0.38	<0.027 - 0.32
Phenanthrene	mg/kg	0.01	220[#2]			0.34	0.36	0.39	0.74	0.16	0.68	0.43	0.77	0.43	1.65	1.65	0.46	0.82	2.85	3	3.07	3.15
Pyrene	mg/kg	0.01	1,200[#2]			1.04	1.12	1.1	2.25	0.43	1.72	1.22	1.63	1.21	6.2	3.13	1.19	1.47	8.8	9.11	9.15	8.9
PAH 16 Total	mg/kg	0.6				7.7	8.1	8.5	16.5	4.3	15	10.8	14.1	10.8	45.4	21.8	9.1	10.2	68.7	73.7	73.4	68.5
PAH 17 Total	mg/kg	0.64				7.8	8.25	8.62	16.73	4.44	15.35	11.01	14.43	11.04	46.2	22.05	9.24	10.29	69.94	75.09	74.54	69.41
PCB (Dutch 7) congeners																						
PCB 28	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 52	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 101	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 118	ug/kg	5	120[#1]			<5 - 0.264	<5 - 0.226	<5 - 0.929	<5 - 1.11	<5 - 0.633	<5 - 1.28	<5 - 1.88	<5 - 1.01	<5 - 0.851	<5 - 1.04	<5 - 1.09	<5 - 0.554	<5 - 0.52	<5 - 0.512	<5 - 0.471	<5 - 0.581	<5 - 0.48
PCB 138	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 153	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 180	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total PCB 7 Congeners	ug/kg	35	200[#5]			<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
PCB (WHO12) 12 congeners																						
Tetrachlorobiphenyl, 3,3,4,4- (PCB 77)	ug/kg	Various	38[#1]			0.0196	0.0269	0.057	0.0599	0.0392	0.0916	0.211	0.0863	0.073	0.0731	0.0927	0.0576	0.0532	0.0331	0.0341	0.0362	0.0345
Tetrachlorobiphenyl, 3,4,4,5- (PCB 81)	ug/kg	Various	12[#1]			<0.00023	0.000385	0.00157	0.00223	0.00219	0.0113	0.0183	0.0105	0.00994	0.00281	0.00443	0.000997	0.000617	0.00206	0.00073	0.00184	0.000941
Pentachlorobiphenyl, 2,3,3,4,4- (PCB 105)	ug/kg	Various	120[#1]			0.118	0.109	0.525	0.583	0.295	0.701	1.06	0.556	0.498	0.431	0.545	0.269	0.241	0.248	0.226	0.281	0.231
Pentachlorobiphenyl, 2,3,4,4,5- (PCB 114)	ug/kg	Various	120[#1]			0.00549	0.00189	0.0101	0.0134	0.00305	0.0256	0.0435	0.0138	0.0126	0.00905	0.0106	0.00814	0.00369	0.00577	0.00517	0.00639	0.00549
Pentachlorobiphenyl, 2,3',4,4',5- (PCB-118)	ug/kg	Various	120[#1]			0.264	0.226	0.929	1.11	0.633	1.28	1.88	1.01	0.851	1.04	1.09	0.554	0.52	0.512	0.471	0.581	0.48
Pentachlorobiphenyl, 2,3,4,4,5- (PCB 123)	ug/kg	Various	120[#1]			0.00445	0.00435	0.0281	0.0489	0.0217	0.046	0.0636	0.0368	0.0298	0.0402	0.04	0.0149	0.0155	0.0127	0.0151	0.0154	0.0141
Pentachlorobiphenyl, 3,3,4,4,5- (PCB 126)	ug/kg	Various	0.036[#1]			0.00175	0.00334	0.0138	0.00247	0.0132	0.0387	0.0633	0.043	0.0377	0.0192	0.0133	0.00808	0.013	0.00646	0.00636	0.00759	0.011
Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 156)	ug/kg	Various	120[#1]			0.0591	0.0486	0.242	0.299	0.153	0.391	0.398	0.332	0.28	0.245	0.214	0.101	0.109	0.128	0.104	0.133	0.111
Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 157)	ug/kg	Various	120[#1]			0.0162	0.0161	0.0614	0.0915	0.0346	0.0895	0.0925	0.0735	0.0665	0.0714	0.0592	0.0342	0.0394	0.0347	0.0332	0.0395	0.0338
Hexachlorobiphenyl, 2,3,4,4,5,5- (PCB 167)	ug/kg	Various	120[#1]			0.0271	0.0238	0.0972	0.157	0.0658	0.153	0.154	0.134	0.114	0.122	0.0931	0.0511	0.0577	0.0603	0.0514	0.0574	0.0529
Hexachlorobiphenyl, 3,3,4,4,5,5- (PCB 169)	ug/kg	Various	0.12[#1]			0.000376	0.000561	<0.000378	0.00162	0.00214	0.00684	0.0181	0.00908	0.00736	0.00187	0.00153	0.000795	0.00125	0.00152	0.00268	0.00117	0.00215
Heptachlorobiphenyl, 2,3,3,4,4,5,5- (PCB 189)	ug/kg	Various	130[#1]			0.007	0.00662	0.0273	0.046	0.0164	0.0418	0.0435	0.0425	0.0332	0.0281	0.0189	0.0183	0.0126	0.0192	0.0149	0.0166	0.0156
Chlorinated Dioxins and Furans																						
2378-TCDF	ng/kg	Various				<0.469	<0.436	<0.976	<0.757	3.11	26.5	28.1	22.6	19.2	5.7	6.52	6.49	<0.234	7.74	10.4	9.95	9.98
12378-PeCDD	ng/kg	Various				<0.507	<0.392	<0.781	<0.593	1.27	9.44	12.5	2.83	12.2	0.643	1.51	1.07	<0.4	2.05	1.84	0.918	2.2
123478-HxCDD	ng/kg	Various				<0.36	<0.725	2.63	<0.904	0.898	7.06	12	7.13	7.8	1.36	0.917	1.82	<0.394	2.07	2.01	1.85	1.66
123678-HxCDD	ng/kg	Various				1.28	<0.793	3.53	<0.849	3.68	13.7	20	10.5	11.6	4.12	3.56	3.09	1.96	3.63	4.29	4.91	5.29
123789 HxCDD	ng/kg	Various				0.595	<0.817	<1.204	<0.874	2.69	11.8	13.9	8.34	10	2.67	2	2.27	0.583	2.13	3.36	2.69	3.68
1234678-HpCDD	ng/kg	Various				48.8	42.7	145	114	62.9	108	132	102	86.6	58.7	62.3	67.5	50.8	53.2	57.4	56.6	65.5
OCDD	ng/kg	Various				388	340	1,180	796	474	579	524	515	489	381	319	450	419	327	354	350	385
OCDF	ng/kg	Various				31.7	19.6	42.6	88.5	73.7	107	88.9	97.2	87.6	37.4	43.2	42.3	23.8	33.1	36.8	31.8	74.4
2378-TCDD	ng/kg	Various				<0.182	<0.164	<0.398	<0.223	<0.433	<1.426	4.61	<1.505	3.16	<0.226	<0.218	<0.218	<0.104	<0.377	<0.23	<0.334	<0.225
12378-PeCDF	ng/kg	Various				<0.267	<0.284	1.47	<0.815	3.68	18.3	26.7	15.7	16.6	5.06	4.84	4.43	1.01	5.51	2.02	5.79	7.71
23478-PeCDF	ng/kg	Various				<0.229	<0.249	<0.566	<0.538	6.6	33.4	57.6	33.8	27.8	6.95	6.15	7.29	<0.242	8.98	7.61	4.06	9.49
123478-HxCDF	ng/kg	Various				<0.2	<0.373	<0.358	<0.859	6.03	28.1	37.5	22.4	21.4	6.86	6.81	6.17	<0.217	8.85	5.23	6.71	8.58
123678-HxCDF	ng/kg	Various				<0.196	<0.42	<0.415	<0.807	5.18	23.2	35	20.4	16.8	5.63	4.38	4.09	<0.225	6.54	7.3	7.42	7.66
234678-HxCDF	ng/kg	Various				<0.18	<0.404	<0.373	<0.835	5.37	28.1	56.7	27.7	21.4	6.1	5.39	4.05	0.997	7.47	6.44	7.59	7.46
123789-HxCDF	ng/kg	Various				<0.22	<0.496	<0.551	<1.003	<0.388	1.34	2.25	1.74	0.939	0.799	<0.505	0.547	<0.245	<0.333	<0.608	0.88	0.877
1234678-HpCDF	ng/kg	Various				17	26.4	26.9	139	75.4	228	232	170	155	55	60.2	46	18.5	50.1	46.7	45	57.8
1234789-HpCDF	ng/kg	Various				<0.423	0.912	2.09	<2.553	1.89	3.48	5.65	4.99	3.25	2.6	2.48	2.17	0.946	2.8	2.6	1.67	1.3
Brominated Dioxins and Furans																						
2378-TBDD	ng/kg	Various				<0.8	<0.78	<0.79	<0.8	<0.75	<0.77	<0.77	<0.79	<0.76	<0.8	<0.78	<0.8	<0.8	<0.78	<0.77	<0.79	<0.79
12378-PBDD	ng/kg	Various				<0.83	<0.83	<0.8	<0.8	<0.8	<0.81	<0.8	<0.8	<0.82	<0.78	<0.8	<0.78	<0.79	<0.81	<0.8	<0.84	<0.8
123478-HxBDD	ng/kg	Various				<0.79	<0.77	<0.8	<0.8	<0.75	<0.76	<0.71	<0.75	<0.76	<0.76	<0.75	<0.77	<0.77	<0.79	<0.77	<0.79	<0.79
123678-HxBDD	ng/kg	Various				<0.78	<0.78	<0.81	<0.81	<0.72	<0.75	<0.73	<0.72	<0.73	<0.8	<0.78	<0.78	<0.8	<0.76	<0.74	<0.77	<0.78
123789-HxBDD	ng/kg	Various				<0.8	<0.8	<0.77	<0.79	<0.71	<0.7	<0.69	<0.68	<0.66	<0.77	<0.77	<0.71	<0.74	<0.69	<0.8	<0.75	<0.73
1234678-HpBDD	ng/kg	Various				<0.82	<0.81	<0.82	<0.82	<0.78	<0.8	1.22	0.86	0.99	<0.84	<0.83	<0.8	<0.8	<0.8	<0.83	<0.8	<0.8
OBDD	ng/kg	Various				<0.8	<0.8	<0.82	<0.83	<0.78	<0.82	<0.78	<0.8	<0.8	<0.82	<0.8	<0.82	<0.8	<0.82	<0.8	<0.84	<0.82
2378-TBDF	ng/kg	Various				<0.82	<0.8	1.1	3.97	2.31	7.34	6.99	6.34	4.8	2.65	1.97	2.87	0.98	1.98	1.7	1.55	1.58
12378-PBDF	ng/kg	Various				1.22	0.97	0.85	2.14	1.16	6.23	6.14	5.87	4.87	1.7	1.41	1.75	1.14	1.54	1.28	1.17	1.25
23478-PBDF	ng/kg	Various				0.85	1.26	1.16	2.3	0.68	3.3	2.24	2.51	2.59	0.98	0.77	0.89	<0.8	0.83	0.88	0.76	0.76
123478-HxBDF	ng/kg	Various				<0.79	<0.79	0.8	1.46	1.5	2.72	3.06	3.5	3.81	2	2.3	2.1	0.79	0.62	1.6	1.38	1.75
123678-HxBDF	ng/kg	Various				<0.8	<0.8	<0.77	2.07	1.01	2.11	2.29	2.79	2	2.53	2.21	1.85	<0.8	0.79	2.19	1.72	2.6
234678-HxBDF	ng/kg	Various				<0.8	<0.8	<0.8	<0.8	<0.8	1.05	1.82	1.31	2.13	<0.81	<0.77	<0.75	<0.77	<0.78	<0.8	<0.8	<0.83
123789-HxBDF	ng/kg	Various				<0.78	<0.79	<0.81	<0.8	<0.78	1.44	1.48	0.99	1.19	<0.79	<0.8	<0.81	<0.8	<0.82	<0.8	<0.84	<0.82
1234678-HpBDF	ng/kg	Various				1.03	1.31	<0.8	1.11	<0.76	<0.76	<0.79	<0.77	<0.77	<0.84	<0.78	<0.77	<0.79	<0.74	<0.79	<0.77	<0.77
1234789-HpBDF	ng/kg	Various				<0.79	<0.78	<0.82	<0.79	<0.82	<0.8	<0.81	<0.8	<0.81	<0.8	<0.81	<0.79	<0.74	<0.8	<0.82	<0.8	<0.8
OBDF	ng/kg	Various				<0.83	<0.84	<0.83	<0.83	<0.84	<0.82	<0.78	<0.8	<0.82	<0.82	<0.84	<0.85	<0.83	<0.84	<0.81	<0.79	<0.84
Organophosphorous flame retardants																						
Triphenylphosphate	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tris(1-chloro-2-propyl)phosphate	mg/kg	Various	630[#1]			<0.15	<0.15	<0.2	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.5	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.2
Tris(2-ethylhexyl) phosphate	mg/kg	0.1	170[#1]			<0.1	<0.1	<0.1	<0.1	0.77	0.23	0.23	0.2	0.22	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	GTCS 1-13	GTCS 1-14	GTCS 1-15	GTCS 1-16	GTCS 1-17	GTCS 1-18				GTCS 1-19	GTCS 1-20	GTCS 1-21	GTCS 1-22	GTCS 1-23			
Date					07/06/2019	07/06/2019	07/06/2019	07/06/2019	05/06/2019	05/06/2019				05/06/2019	05/06/2019	05/06/2019	05/06/2019	05/06/2019			
Sample Type					Normal	Normal	Normal	Normal	Normal	Normal	Field_D			Normal	Normal	Normal	Normal	Normal	Field_D		
Sample Area					Allom House and Barlow House	Allom House and Barlow House	Camelford Walk	Camelford Walk	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Portland Road Community Kitchen Garden	Henry Dickens Estate	Henry Dickens Estate	Avondale Park	Avondale Park	Avondale Park Gardens	Avondale Park Gardens	Avondale Park Gardens	Avondale Park Gardens
Field ID					GTCS 1-13A	GTCS 1-14A	GTCS 1-15A	GTCS 1-16A	GTCS 1-17A	GTCS 1-18 PRIMARY SAMPLE	GTCS 1-18 FIELD DUPLICATE	GTCS 1-18 LAB DUPLICATE	GTCS 1-18 LAB FIELD DUPLICATE	GTCS 1-19A	GTCS 1-20A	GTCS 1-21A	GTCS 1-22A	GTCS 1-23 PRIMARY SAMPLE	GTCS 1-23 FIELD DUPLICATE	GTCS 1-23 LAB DUPLICATE	GTCS 1-23 LAB FIELD DUPLICATE
Sample_Depth_Range					0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
Brominated flame retardents (PBDEs)																					
2,2",4-tribromodiphenyl ether (BDE-17)	mg/kg	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,4"-tribromodiphenyl ether (BDE-28)	mg/kg	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4"-tetrabromodiphenyl ether (BDE-47)	mg/kg	0.1	6.3[#1]		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,3",4,4"-tetrabromodiphenyl ether (BDE-66)	mg/kg	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",3,4,4"-pentabromodiphenyl ether (BDE-85	mg/kg	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4",5-pentabromodiphenyl ether (BDE-99	mg/kg	0.1	6.3[#1]		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4",6-pentabromodiphenyl ether (BDE-10	mg/kg	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",3,4,4",5"-hexabromodiphenyl ether(BDE-1	mg/kg	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4",5,5"-hexabromodiphenyl ether(BDE-1	mg/kg	0.1	13[#1]		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4",5,6"-hexabromodiphenyl ether(BDE-1	mg/kg	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2,3,4,4,5,6-heptabromodiphenyl ether (BDE-1	mg/kg	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polybrominated biphenyls (PBBs)																					
2,2-dibromobiphenyl (PBB 4)	mg/kg	0.5	0.018[#1]		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4,4-dibromobiphenyl (PBB 15)	mg/kg	0.5	0.018[#1]		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,2,5-tribromobiphenyl (PBB 18)	mg/kg	0.5	0.018[#1]		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
tetrabromobiphenyl (3,3,5,5-) (PBB 80)	mg/kg	0.5	0.018[#1]		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexabromobiphenyl (PBB 153)	mg/kg	0.5	0.018[#1]		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrabromobisphenol A																					
tetrabromobisphenol A	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexabromocyclododecane (HBCDD)																					
Hexabromocyclododecane (HBCDD)	mg/kg	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isocyanates																					
Isocyanic Acid	ug/kg	250			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Methyl Isocyanate	ug/kg	250	4,600[#1]		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Ethyl Isocyanate	ug/kg	250			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Propyl Isocyanate	ug/kg	250			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Phenyl Isocyanate	ug/kg	250			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Hexamethylene diisocyanate	ug/kg	250	3,100[#1]		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
2,4-Toluene diisocyanate	ug/kg	250	6,400[#1]		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
2,6-Toluene diisocyanate	ug/kg	250	5,300[#1]		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Isophorone Diisocyanate	ug/kg	500			<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500
4,4-Methylene-bis(phenyl-isocyanate)	ug/kg	250	850,000,000[#1]		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	373
Cyanides																					
Cyanide (Free)	mg/kg	0.5	20[#5]		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide Total	mg/kg	0.5	78[#1]		<0.5	<0.5	<0.5	<0.5	1	1.6	1.5	1.8	1.8	<0.5	<0.5	0.7	0.7	0.8	<0.5	0.7	0.6
Thiocyanate	mg/kg	0.6	20[#5]		0.8	0.6	<0.6	0.9	1.6	1.4	1.2	1.5	1.3	1.6	0.8	0.8	1.3	1.7	1.4	1.5	1.5
Asbestos																					
General Description (Bulk Analysis)	None				soil-stones	soil-stones	soil-stones	soil.stones	soil.stones	soil.stones	soil.stones	soil.stones	soil.stones	soil-stones	soil-stones	soil-stones	soil-stones	soil-stones	soil-stones	soil-stones	soil-stones
Asbestos Fibres	None				NAD	NAD	NAD	NAD	NAD	Fibre Bundles	Fibre Bundles	Fibre Bundles	Fibre Bundles	NAD	NAD	NAD	NAD	NAD	Fibre Bundles	NAD	Fibre Bundles
Asbestos ACM	None				NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Asbestos Type	None				NAD	NAD	NAD	NAD	NAD	Chrysotile	Chrysotile	Chrysotile	Chrysotile	NAD	NAD	NAD	NAD	NAD	Chrysotile	NAD	Chrysotile
Asbestos Level Screen					NAD	NAD	NAD	NAD	NAD	less than 0.1%	less than 0.1%	less than 0.1%	less than 0.1%	NAD	NAD	NAD	NAD	NAD	less than 0.1%	NAD	less than 0.1%
Potentially Respirable Fibres per gram	f/g	0			-	-	-	-	-	0	86,822	0	0	-	-	-	-	-	0	-	0
SVF / MMMF																					
Synthetic/MMMF	None				Present	Present	Present	Absent	Absent	Present	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
Asbestos Quantification																					
Asbestos Gravimetric & PCOM Total	mass %	0.001			-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	<0.001
Asbestos PCOM Quantification (Fibres)	mass %	0.001			-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	<0.001
Total ACM Gravimetric Quantification (% Asb)	mass %	0.001			-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	<0.001
Total Detailed Gravimetric Quantification (% As	mass %	0.001			-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	<0.001
Asbestos Quantification - Total - %	mass %	0.001			-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	<0.001
Total Organic Carbon																					
TOC	percent	0.02			2.75	2.84	2.38	4.12	4.93	8.83	8.57	9.42	9.51	5.57	4.88	4.09	5.75	6.14	7.08	5.81	5.75
Inorganics																					
pH (Lab)	pH units	0.01			7.49	7.62	7.59	7.37	7.74	7.73	7.73	7.77	7.82	7.13	8.06	7.73	7.42	7.6	7.57	7.59	7.59
Other																					
Natural Moisture Content	percent	0.1			9.9	6.8	18.3	7.1	15.5	23.7	21.5	22.8	18.3	13.2	21.4	13.8	9.5	15	11.1	12.5	12.6
ESdat Calculated																					
Cresols Total	ug/kg	20	180[#3]		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Benzo(a)pyrene (surrogate marker for PAH mi	mg/kg	0.01	5.0[#6]		0.76	0.87	0.77	1.65	0.49	1.48	1.06	1.35	1.09	4.52	2.04	0.9	0.95	7.43	7.82	7.68	7.05
Xylene Total	ug/kg	8	130,000[#2]		<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Trichlorobenzene (total)	ug/kg	14	2200[#5]		<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
AECOM Calculated																					
Sum of PCDD/F +PCB12	ng/kg	Various	8700[#4]		1028	917	3417	3586	2022	4136	5367	3442	3033	2684	2731	1787	1601	1601	1531	1731	1659
PCDD/F+PBDD/F+PCB12 Hazard Index	-	-	1		0.01	0.02	0.05	0.04	0.1	0.45				0.11	0.1	0.1	0.03	0.11			
WHO2005 TEQ (PCDD/F + PBDD/F + PCB)	ng/kg	Various			1.476	1.595	4.773	4.682	9.768	44.401	69.059	35.555	44.116	10.598	10.186	9.417	2.803	11.281	10.869	9.217	13.235

Comments
#1 USEPA RSL (May 2019)
#2 LQM/CIEH S4ULs 2015
#3 EIC/AGS/CL:AIRE 2010
#4 EA SGV 2009
#5 Dutch IV 2013
#6 Defra C4SL 2014
#7 AECOM (modified EIC GAC to include plant uptake route)
GSC based on residential (with private gardens) land use scenario
2.5% soil organic matter content selected for GSC #2 and #3
(blank): No assessment criteria available
 - : Not analysed
Field_D: Field Duplicate
NAD: No Asbestos Detected

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	Location	GTCS 1-24	GTCS 1-25	GTCS 1-26	GTCS 1-27	GTCS 1-28	GTCS 1-29	GTCS 1-30				GTCS 1-31	GTCS 1-32	GTCS 1-33	GTCS 1-34	GTCS 1-35
					Date	05/06/2019	05/06/2019	05/06/2019	05/06/2019	05/06/2019	06/06/2019	06/06/2019				07/06/2019	07/06/2019	04/06/2019	04/06/2019	04/06/2019
					Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D			Normal	Normal	Normal	Normal	Normal
					Sample Area	Avondale Park Gardens	Bramley House	Bramley House	Whitstable House	Whitstable House	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	Markland House	Markland House	Darfield Way	Darfield Way	Robinson House
					Field ID	GTCS 1-24A	GTCS 1-25A	GTCS 1-26A	GTCS 1-27A	GTCS 1-28A	GTCS 1-29A	GTCS 1-30 PRIMARY SAMPLE	GTCS 1-30 FIELD DUPLICATE	GTCS 1-30 LAB DUPLICATE	GTCS 1-30 LAB FIELD DUPLICATE	GTCS 1-31A	GTCS 1-32A	GTCS 1-33A	GTCS 1-34A	GTCS 1-35A
					Sample_Depth_Range	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
Metals																				
Aluminium	mg/kg	50	77,000[#1]			13,720	6,985	10,480	19,810	17,950	3,993 - 4,386	12,066 - 12,550	12,710 - 13,421	12,110 - 14,825	12,027 - 12,040	18,930	5,892	17,230	10,400	9,603
Arsenic	mg/kg	0.5	37[#6]	***32***		23.1	13.9	12.7	15.4	11.4	8.9 - 9.4	***32.3 - 92.9***	***25.8 - 35.2***	***27.8 - 32.7***	***26.7 - 32.2***	17.7	5.2	12	15.8	17.2
Barium	mg/kg	1	460[#7]			269	113	165	289	200	48 - 52	327 - 475	345 - 535	509 - 607	375 - 575	244	196	111	139	186
Beryllium	mg/kg	0.5	1.7[#2]			1.6	0.8	0.9	1.5	1.2	<0.5 - 0.5	1.8 - 2.2	1.6 - 1.9	1.7 - 2	1.3 - 1.8	1.5	0.7	1.1	0.9	1.3
Boron	mg/kg	0.1	290[#2]			2.7	3.4	6.6	2.1	2	2.4 - 2.8	2.8 - 4.1	4 - 4.3	3.1 - 4.5	3.2 - 4.2	1.7	0.9	2.7	3.9	2.5
Cadmium	mg/kg	0.1	22[#6]	***2.1***		1	0.6	***4.7***	1.4	2	0.2 - 0.3	1.6 - 1.8	1.4 - 2.1	1.4	1.6 - 1.9	***2.7***	0.3	0.8	0.9	0.7
Chromium (Trivalent)	mg/kg	0.5	910[#2]			68.2	171.2	192.3	95.8	105.6	24.4 - 24.9	55.9 - 67	46.6 - 59	46.2 - 57	32.9 - 52.8	89.2	94	83	99	97.8
Chromium (hexavalent)	mg/kg	0.3	21[#6]			<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium (III+VI)	mg/kg	0.5	Use either CrIII or CrVI[#2]			68.2	171.2	192.3	95.8	105.6	24.4 - 24.9	55.9 - 67	46.6 - 59	46.2 - 57	32.9 - 52.8	89.2	94	83	99	97.8
Copper	mg/kg	1	2,400[#2]	***190***		76	35	41	72	56	48 - 63	***232 - 644***	***218 - 299***	***245 - 261***	***161 - 287***	95	25	50	61	90
Lead	mg/kg	5	200[#6]	***820***		659	67	262	439	149	36 - 42	***552 - 980***	***860 - 1,083***	***956 - 1,111***	***617 - 1,597***	301	63	96	172	312
Mercury	mg/kg	0.1	40[#2]	***1.9***		1.8	<0.1	0.2	0.6	0.4	<0.1	0.2	0.2 - 0.3	0.3 - 0.5	0.2 - 0.3	1.4	<0.1	0.1	0.2	0.7
Nickel	mg/kg	0.7	130[#2]	***42***		27.4	20.7	19.5	32.2	36.4	16 - 16.3	***50.9 - 82.8***	***40.6 - 52.8***	***41.2 - 44.8***	***31.3 - 48.2***	30.5	13.4	24.4	21	26.1
Selenium	mg/kg	1	250[#2]			2	1	1	2	1	<1	2 - 4	2	2	2	1	1	2	2	2
Vanadium	mg/kg	1	410[#2]			62	46	42	66	53	37 - 39	62 - 77	73 - 80	73 - 82	60 - 77	64	30	55	38	56
Zinc	mg/kg	5	3,700[#2]			285	141	169	358	217	85 - 103	803 - 1,021	804 - 1,505	891 - 967	851 - 1,046	360	90	166	246	243
VOCs																				
1,1,1,2-tetrachloroethane	ug/kg	5	2,800[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-trichloroethane	ug/kg	5	18,000[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,2,2-tetrachloroethane	ug/kg	3	3,400[#2]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1,2-trichloroethane	ug/kg	4	1,200[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,1-dichloroethane	ug/kg	6	1,200[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
1,1-dichloroethene	ug/kg	6	3,900[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
1,1-dichloropropene	ug/kg	3				<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2,3-trichlorobenzene	ug/kg	7	3,600[#2]			<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
1,2,3-trichloropropane	ug/kg	4	5.1[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,2,4-trimethylbenzene	ug/kg	6	850[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
1,2-dibromo-3-chloropropane	ug/kg	4	5.3[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,2-dibromoethane	ug/kg	3	36[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2-dichloroethane	ug/kg	5	11[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-dichloropropane	ug/kg	4	42[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,3,5-trimethylbenzene	ug/kg	3	270,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,3-dichloropropane	ug/kg	4	1,600,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
2,2-dichloropropane	ug/kg	4				<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
2-chlorotoluene	ug/kg	3	1,600,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
4-chlorotoluene	ug/kg	3	1,600,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Benzene	ug/kg	5	870[#6]			<5	<5	96	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromobenzene	ug/kg	2	2,000[#3]			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Bromochloromethane	ug/kg	4	150,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromodichloromethane	ug/kg	4	290[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromoform	ug/kg	4	5,900[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	ug/kg	1	6,800[#1]			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3-Methyl butanal	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/kg	4	56[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chlorobenzene	ug/kg	4	1,000[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chlorodibromomethane	ug/kg	5	8,300[#1]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	ug/kg	6	11,000[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
Chloroform	ug/kg	5	1,700[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloromethane	ug/kg	3	9.8[#3]			7	6	9	5	7	8	7	10	9	12	12	7	5	7	6
cis-1,2-dichloroethene	ug/kg	7	190[#3]			<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
cis-1,3-dichloropropene	ug/kg	4				<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromomethane	ug/kg	4	24,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dichlorodifluoromethane	ug/kg	2	87,000[#1]			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloromethane	ug/kg	30	980[#3]			<30	<30	<30	<30	<30	<30	<30	37	<30	<30	<30	41	<30	<30	<30
Ethylbenzene	ug/kg	3	110,000[#2]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Eucalyptol	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	ug/kg	3	27,000[#3]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Methyl Methacrylate	ug/kg	100	4,400,000[#1]			-	-	782	-	-	-	-	-	-	-	-	-	-	-	-
MTBE	ug/kg	6	84,000[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
n-butylbenzene	ug/kg	4	3,900,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
n-propylbenzene	ug/kg	4	82,000[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
sec-butylbenzene	ug/kg	4	7,800,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/kg	3	19,000[#3]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
tert-butylbenzene	ug/kg	5	7,800,000[#1]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethene	ug/kg	3	390[#2]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Toluene	ug/kg	3	290,000[#2]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
trans-1,2-dichloroethene	ug/kg	3	340[#3]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
trans-1,3-dichloropropene	ug/kg	3				<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Trichloroethene	ug/kg	5	34[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichlorofluoromethane	ug/kg	3	23,000,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Undecane	ug/kg	100				386	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene (m & p)	ug/kg	4				<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Xylene (o)	ug/kg	4	140,000[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vinyl chloride	ug/kg	2	0.87[#2]			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
VOC TICs	None					-	0	-	0	0	0	0	0	0	0	0	0	0	0	0
Trihalomethanes	ug/kg					<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration																
					Location	GTCS 1-24	GTCS 1-25	GTCS 1-26	GTCS 1-27	GTCS 1-28	GTCS 1-29	GTCS 1-30				GTCS 1-31	GTCS 1-32	GTCS 1-33	GTCS 1-34	GTCS 1-35
					Date	05/06/2019	05/06/2019	05/06/2019	05/06/2019	05/06/2019	06/06/2019	06/06/2019				07/06/2019	07/06/2019	04/06/2019	04/06/2019	04/06/2019
					Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D			Normal	Normal	Normal	Normal	Normal
					Sample Area	Avondale Park Gardens	Bramley House	Bramley House	Whitstable House	Whitstable House	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	Markland House	Markland House	Darfield Way	Darfield Way	Robinson House
					Field ID	GTCS 1-24A	GTCS 1-25A	GTCS 1-26A	GTCS 1-27A	GTCS 1-28A	GTCS 1-29A	GTCS 1-30 PRIMARY SAMPLE	GTCS 1-30 FIELD DUPLICATE	GTCS 1-30 LAB DUPLICATE	GTCS 1-30 LAB FIELD DUPLICATE	GTCS 1-31A	GTCS 1-32A	GTCS 1-33A	GTCS 1-34A	GTCS 1-35A
					Sample_Depth_Range	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
SVOCs																				
Dibenzo[a,e]pyrene	ug/kg	100	42[#1]			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-methylnaphthalene	ug/kg	10	240,000[#1]			131	<10	<10	24	<10	<10	87	92	82	101	32	<10	15	28	47
4-bromophenyl phenyl ether	ug/kg	10				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-chlorophenyl phenyl ether	ug/kg	10				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Azobenzene	ug/kg	10	5,600[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bis(2-chloroethoxy) methane	ug/kg	10	190,000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bis(2-chloroethyl)ether	ug/kg	10	230[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbazole	ug/kg	10				238	288	81	42	22	<10	233	257	245	346	49	23	<10	131	57
Dibenzofuran	ug/kg	10	73,000[#1]			107	37	21	<10	<10	<10	72	70	60	112	24	<10	<10	52	25
Hexachlorobutadiene	ug/kg	4	700[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hexachlorocyclopentadiene	ug/kg	10	1,800[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexachloroethane	ug/kg	10	480[#3]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Anilines																				
2-nitroaniline	ug/kg	10	630,000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3-nitroaniline	ug/kg	10				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-chloroaniline	ug/kg	10	2,700[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-nitroaniline	ug/kg	10	27,000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Amino Aliphatics																				
N-nitrosodi-n-propylamine	ug/kg	10	78[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Explosives																				
2,4-Dinitrotoluene	ug/kg	10	3,200[#3]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,6-dinitrotoluene	ug/kg	10	1,700[#3]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nitrobenzene	ug/kg	10	5,100[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Phenolics																				
2,4-dimethylphenol	ug/kg	10	43,000[#3]			<10	33	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-chloronaphthalene	ug/kg	10	9,200[#3]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-methylphenol	ug/kg	10	Use Cresols Total[#3]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-nitrophenol	ug/kg	10				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-chloro-3-methylphenol	ug/kg	10	6,300,000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-methylphenol	ug/kg	10	Use Cresols Total[#3]			<10	<10	221	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-nitrophenol	ug/kg	10				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phenol	ug/kg	10	200,000[#2]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Halogenated Phenols																				
2,4,5-trichlorophenol	ug/kg	10	6,300,000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4,6-trichlorophenol	ug/kg	10	49,000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4-dichlorophenol	ug/kg	10	190,000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-chlorophenol	ug/kg	10	390,000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Pentachlorophenol	ug/kg	10	520[#2]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Halogenated Benzenes																				
1,2,4-trichlorobenzene	ug/kg	7	6,400[#2]			<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
1,2-dichlorobenzene	ug/kg	4	55,000[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,3-dichlorobenzene	ug/kg	4	1,000[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,4-dichlorobenzene	ug/kg	4	150,000[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hexachlorobenzene	ug/kg	10	3,300[#2]			83	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Phthalates																				
Bis(2-ethylhexyl) phthalate	ug/kg	100	610,000[#3]			384	196	<100	762	327	32,607	609	639	805	838	594	<100	340	610	626
Butyl benzyl phthalate	ug/kg	100	3,300,000[#3]			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Diethylphthalate	ug/kg	100	260,000[#3]			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Dimethyl phthalate	ug/kg	100	16,400[#5]			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Di-n-butyl phthalate	ug/kg	100	31,000[#3]			<100	<100	<100	<100	<100	<100	174	191	212	231	131	<100	<100	<100	<100
Di-n-octyl phthalate	ug/kg	100	2,800,000[#3]			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SVOC - Solvents																				
Isophorone	ug/kg	10	570,000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC TIC																				
SVOC TICs	None					-	-	-	0	0	-	-	-	-	-	-	0	0	-	-
.alpha.-Phellandrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.alpha.-Pinene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.beta.-Guaiene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
[1,1-Biphenyl]-4-carboxaldehyde	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1(2Aminobenzylidene)1234-tetrahydroacridineN	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl, 2,3,3,4-tetrachloro-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl, 2,3,3,5-tetrachloro-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl, 2,3,4,6-tetrachloro-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-die	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,9,10-Dibenzopyrene	ug/kg	100				1,190	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,5,5-Trimethyl-6-methylene-cyclohexene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,6-Dimethylphenazine	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10,18-Bisnorabieta-5,7,9(10),11,13-pentaene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10,18-Bisnorabieta-8,11,13-triene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10s,11s-Himachala-3(12),4-diene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11H-Benzo[a]carbazole	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11H-Benzo[a]fluoren-11-one	ug/kg	100				296	-	-	-	-	-	338	837	430	642	-	-	-	-	-
11H-Benzo[a]fluoren-11-one, 10-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11H-Benzo[a]fluorene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11H-Benzo(b)fluorene	ug/kg	100				316	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11H-Indeno(1,2-b)quinoline	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13-Docosenamide, (Z)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13-Isopropylpodocarpen-12-ol-20-al	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Cyclopropa[l]phenanthrene,1a,9b-dihydro-	ug/kg	100				-	-	-	-	-	-	-	-	608	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methyldibenzothiophene	ug/kg	100				-	-	-	-	-	-	689	896	760	825	-	-	-	-	-
1-Naphthalenecarboxylic acid, 2-benzoyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-(2H-Benzotriazol-2-yl)-5-methylphenol	ug/kg	100				-	-	3,791	-	-	-	-	-	-	-	-	-	-	-	-
2-(Acetoxymethyl)-3-(methoxycarbonyl)bipheny	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	Location	GTCS 1-24	GTCS 1-25	GTCS 1-26	GTCS 1-27	GTCS 1-28	GTCS 1-29	GTCS 1-30				GTCS 1-31	GTCS 1-32	GTCS 1-33	GTCS 1-34	GTCS 1-35
					Date	05/06/2019	05/06/2019	05/06/2019	05/06/2019	05/06/2019	06/06/2019	06/06/2019				07/06/2019	07/06/2019	04/06/2019	04/06/2019	04/06/2019
					Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D			Normal	Normal	Normal	Normal	Normal
					Sample Area	Avondale Park Gardens	Bramley House	Bramley House	Whitstable House	Whitstable House	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	Markland House	Markland House	Darfield Way	Darfield Way	Robinson House
					Field ID	GTCS 1-24A	GTCS 1-25A	GTCS 1-26A	GTCS 1-27A	GTCS 1-28A	GTCS 1-29A	GTCS 1-30 PRIMARY SAMPLE	GTCS 1-30 FIELD DUPLICATE	GTCS 1-30 LAB DUPLICATE	GTCS 1-30 LAB FIELD DUPLICATE	GTCS 1-31A	GTCS 1-32A	GTCS 1-33A	GTCS 1-34A	GTCS 1-35A
					Sample_Depth_Range	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
2,3,3,,5,6-Pentachloro-1,1-biphenyl	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,3,6-Tetrachloro-1,1-biphenyl	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6-Tetrachloro-1,1-biphenyl	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Cycloheptatrien-1-one, 2-phenyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dimethyldibenzothiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,9-Dimethyl-2,3,4,5,6,7hexahydro-1H-2-benza	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Bromo-4,5-dimethoxycinnamic acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2Chloro2methyl1oxa2sila-1,2-dihydronaphthale	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylchrysene	ug/kg	100				503	-	-	-	-	-	-	-	-	752	-	-	-	-	-
2-Propenal, 3-(4-hydroxy-3-methoxyphenyl)-	ug/kg	100				-	-	-	-	-	3,917	-	-	-	-	-	-	-	-	-
3,3-Dimethylbiphenyl	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,4:8,9-Dibenzopyrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,4-Dichlorobenzonitrile	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,5-Dimethoxy-4-hydroxycinnamaldehyde	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Bromo-5-ethoxy-4-hydroxybenzaldehyde	ug/kg	100				-	-	-	-	-	-	-	-	-	449	-	-	-	-	-
4,4-Bis(tetrahydrothiopyran)	ug/kg	100				336	-	-	-	-	-	-	-	938	-	-	-	-	-	-
4H-Cyclopenta[def]phenanthrene	ug/kg	100				558	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6H-Benz[de]anthracen-6-one	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7H-Benz(de)anthracen-7-one	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8,9-Dihydro-7H-cyclopenta[a]pyrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9,10-Anthracenedione	ug/kg	100	14,000[#1]			217	-	-	-	-	-	467	352	-	536	-	-	-	-	-
9,10-Anthracenedione, 2-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9,10-Bis(bromomethyl)anthracene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9,10-Dimethylanthracene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9-Anthracenecarbonitrile	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Cyclopenta[a]pyrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluoren-9-ol	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluoren-9-one	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluorene, 1-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluorene, 2-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluorene, 9-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Abietic acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alloaromadendrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthra(1,2-b)thiophene	ug/kg	100				620	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthra(2,3-b)thiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene, 1-methyl-	ug/kg	100				-	-	-	-	-	-	322	271	-	-	-	-	-	-	-
Anthracene, 2-ethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene, 2-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	376	-	-	-	-	-
Aromandendrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz(A)anthracene-7,12-dione	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz(a)anthracene-7-carbonitrile	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz[a]anthracene, 12-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz[a]anthracene, 1-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz[a]anthracene, 7-methyl-	ug/kg	100				804	-	-	-	-	-	890	-	-	-	-	-	-	-	-
Benz[j]aceanthrylene, 3-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde, 4-hydroxy-3,5-dimethoxy-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzenamine, 2,4,6-tribromo-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, (4,5,5-trimethyl-1,3-cyclopentadien-1	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Sulfonylbis (4-chlorobenzene)	ug/kg	100	51,000[#1]			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzenesulfonamide, 4-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	474	-	-	-	-	-	-
Benzo[b]naphtho[1,2-d]furan	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(c)carbazole	ug/kg	100				387	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]naphtho[1,2-d]thiophene	ug/kg	100				-	-	-	-	-	-	-	-	624	-	-	-	-	-	-
Benzo[b]naphtho[2,1-d]thiophene	ug/kg	100				-	-	-	-	-	-	730	1,008	-	971	-	-	-	395	-
Benzo[b]naphtho[2,3-d]furan	ug/kg	100				412	-	-	-	-	-	-	-	-	345	-	-	-	-	-
Benzo[b]naphtho[2,3-d]thiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]triphenylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[c]cinnoline	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[c]phenanthrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(e)pyrene	ug/kg	100				-	1,316	-	-	-	-	2,766	2,611	2,927	2,795	-	-	-	815	-
Benzo[ghi]fluoranthene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[h]quinoline, 2,4-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[kl]xanthene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzoic acid, hexyl ester	ug/kg	100				-	-	2,877	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl	ug/kg	100	160,000[#3]			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylated Hydroxytoluene	ug/kg	100	150,000[#1]			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Camphor (TIC)	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene, 1-methyl-	ug/kg	100				-	-	-	-	-	-	-	812	-	-	-	-	-	-	-
Chrysene, 5-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	770	-	-	-	-	-	-
Chrysene, 6-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopenta(cd)pyrene, 3,4-dihydro-	ug/kg	100				998	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopenta(def)phenanthrenone	ug/kg	100				303	423	-	-	-	-	-	-	-	-	-	-	-	-	-
Dehydroabietic acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-Homoandrostane, (5.alpha.,13.alpha.)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,e)aceanthrylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,i)pyrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo[def,mno]chrysene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran, 4-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzothiophene	ug/kg	100	780,000[#1]			-	-	-	-	-	-	-	-	-	517	-	-	-	-	-
Dibenzothiophene, 3-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzothiophene, 4,6-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dicyclohexyl phthalate	ug/kg	100				-	-	60,077	-	-	-	-	-	-	-	-	-	-	-	-
Diphenyl sulfide	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	361
di-p-Tolylacetylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-Limonene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Eicosane	ug/kg	100				-	-	4,727	-	-	-	-	-	-	-	-	-	-	-	-
Ferruginol	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene, 2-methyl-	ug/kg	100				764	-	-	-	-	-	1,068	-	1,203	1,275	-	-	-	-	-
Fluorene, 2,4a-dihydro-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heneicosane	ug/kg	100				-	-	599	-	-	-	-	1,909	-	-	-	-	-	-	-
Heneicosane, 3-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptadecane	ug/kg	100				-	-	-	-	-	-	-	1,277	-	-	-	-	-	-	-
Hexadecane	ug/kg	100				-	-	1,760	-	-	-	-	-	514	-	-	-	-	-	-
Hexathiane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	GTCS 1-24	GTCS 1-25	GTCS 1-26	GTCS 1-27	GTCS 1-28	GTCS 1-29	GTCS 1-30				GTCS 1-31	GTCS 1-32	GTCS 1-33	GTCS 1-34	GTCS 1-35
Date					05/06/2019	05/06/2019	05/06/2019	05/06/2019	05/06/2019	06/06/2019	06/06/2019				07/06/2019	07/06/2019	04/06/2019	04/06/2019	04/06/2019
Sample Type					Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D			Normal	Normal	Normal	Normal	Normal
Sample Area					Avondale Park Gardens	Bramley House	Bramley House	Whitstable House	Whitstable House	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	Markland House	Markland House	Darfield Way	Darfield Way	Robinson House
Field ID					GTCS 1-24A	GTCS 1-25A	GTCS 1-26A	GTCS 1-27A	GTCS 1-28A	GTCS 1-29A	GTCS 1-30 PRIMARY SAMPLE	GTCS 1-30 FIELD DUPLICATE	GTCS 1-30 LAB DUPLICATE	GTCS 1-30 LAB FIELD DUPLICATE	GTCS 1-31A	GTCS 1-32A	GTCS 1-33A	GTCS 1-34A	GTCS 1-35A
Sample_Depth_Range					0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
Indene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno[1,2,3-fg]naphthacene	ug/kg	100			718	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indole, 5-methyl-2-(4-pyridyl)-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isocil	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
isoledene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Longifolene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl dehydroabietate	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Morpholine, 4-(1-cyclohepten-1-yl)-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,4,5-trimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,4,6-trimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,6,7-trimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,6-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,7-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,3,6-trimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,3-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,6-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,7-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2-ethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2-phenyl-	ug/kg	100			-	-	-	-	-	-	236	-	-	-	-	-	-	-	-
Naphtho[1,2-b]thiophene	ug/kg	100			-	-	-	-	-	-	-	-	305	-	-	-	-	-	-
Naphtho[2,1,8,7-klmn]xanthene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphtho[2,1-b]thiophene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Decanoic acid	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neocuproine	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexadecanoic Acid	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonadecane	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Pentafluorosulfanyl-S,S-diphenoxysufilimine	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octadecane	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octadecane, 1-iodo-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octadecanoic Acid	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octadecanoic acid, butyl ester	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
p-Cymene	ug/kg	4			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Perylene	ug/kg	100			2,798	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene, 1-methyl-	ug/kg	100			200	-	-	-	-	-	-	-	687	512	-	-	-	-	-
Phenanthrene, 2,5-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene, 2-methyl-	ug/kg	100			308	-	-	-	-	-	469	618	-	988	-	-	-	-	-
Phenanthrene, 3,6-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene, 4-methyl-	ug/kg	100			-	-	-	-	-	-	830	686	-	-	-	-	-	224	-
Phenol, 2,6-dimethoxy-	ug/kg	100			-	-	-	-	-	2,254	-	-	-	-	-	-	-	-	-
Phenol, 2,6-dimethoxy-4-(2-propenyl)-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol, 2-methoxy-4-(1-propenyl)-, (Z)-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene, 1,3-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene, 1-methyl-	ug/kg	100			396	561	-	-	-	-	-	1,193	564	667	-	-	-	-	-
Pyrene, 2-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quinoxaline, 6-(3-nitrobenzylidenamino)-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Retene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rubicene-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloro-o-benzoquinone	ug/kg	100			-	-	-	-	-	-	-	-	-	643	-	-	-	-	-
Tetracosane	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetradecanoic acid	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Bis(methyldichlorosilyl)ethylene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorovinylsilane	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triphenylene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triphenylene, 2-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-01	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-02	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-03	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-04	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-05	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-06	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-07	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-08	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-09	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-10	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-11	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-12	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-13	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-14	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-15	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-16	ug/kg	100			1,963	-	-	-	-	-	-	-	-	1,463	701	-	-	-	-
GT-SVOC-TIC-17	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-18	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)naphtho(1,2-d)furan	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	Location	GTCS 1-24	GTCS 1-25	GTCS 1-26	GTCS 1-27	GTCS 1-28	GTCS 1-29	GTCS 1-30				GTCS 1-31	GTCS 1-32	GTCS 1-33	GTCS 1-34	GTCS 1-35
					Date	05/06/2019	05/06/2019	05/06/2019	05/06/2019	05/06/2019	06/06/2019	06/06/2019				07/06/2019	07/06/2019	04/06/2019	04/06/2019	04/06/2019
					Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D			Normal	Normal	Normal	Normal	Normal
					Sample Area	Avondale Park Gardens	Bramley House	Bramley House	Whitstable House	Whitstable House	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	Markland House	Markland House	Darfield Way	Darfield Way	Robinson House
					Field ID	GTCS 1-24A	GTCS 1-25A	GTCS 1-26A	GTCS 1-27A	GTCS 1-28A	GTCS 1-29A	GTCS 1-30 PRIMARY SAMPLE	GTCS 1-30 FIELD DUPLICATE	GTCS 1-30 LAB DUPLICATE	GTCS 1-30 LAB FIELD DUPLICATE	GTCS 1-31A	GTCS 1-32A	GTCS 1-33A	GTCS 1-34A	GTCS 1-35A
					Sample_Depth_Range	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
PAH																				
Acenaphthene	mg/kg	0.01	510[#2]			0.16	<0.05	<0.05	<0.05	<0.05	<0.05	0.16	0.14	0.12	0.19	<0.05	<0.05	<0.05	<0.05	0.23
Acenaphthylene	mg/kg	0.01	420[#2]			1.04	0.07	0.25	0.08	0.05	<0.03	0.19	0.17	0.19	0.19	0.12	<0.03	0.04	0.08	0.57
Anthracene	mg/kg	0.01	5,400[#2]			1.24	0.18	0.57	0.14	0.06	<0.04	0.47	0.42	0.43	0.64	0.18	<0.04	<0.04	0.09	2.33
Benz(a)anthracene	mg/kg	0.01	11[#2]			4.4	0.59	2.52	0.5	0.28	0.15	3.36	2.71	2.99	4.32	0.77	0.19	0.22	0.38	4.32
Benzo(a) pyrene	mg/kg	0.01	2.7[#2]	*3.6*		**5.75**	0.65	1.96	0.55	0.3	0.13	2.87	2.81	2.64	3.18	0.96	0.19	0.21	0.38	**3.97**
Benzo(b)fluoranthene	mg/kg	0.01	3.3[#2]			7.17	0.86	2.7	0.73	0.4	0.19	4.13	3.69	3.66	4.53	1.27	0.27	0.3	0.55	5.09
Benzo(b)&(k)fluoranthene	mg/kg	0.01				9.96	1.19	3.75	1.02	0.56	0.26	5.73	5.13	5.08	6.29	1.76	0.38	0.41	0.76	7.07
Benzo(g,h,i)perylene	mg/kg	0.01	340[#2]			4.34	0.45	0.92	0.38	0.22	0.11	2.09	1.8	1.69	2.12	0.79	0.16	0.2	0.36	2.48
Benzo(k)fluoranthene	mg/kg	0.01	93[#2]			2.79	0.33	1.05	0.29	0.16	0.07	1.6	1.44	1.42	1.76	0.49	0.11	0.11	0.21	1.98
Chrysene	mg/kg	0.01	22[#2]			4.53	0.46	2.49	0.53	0.27	0.09	2.55	2.49	2.25	2.66	0.76	0.13	0.21	0.37	4.01
Coronene	mg/kg	0.04				1.04	0.09	0.19	0.09	0.07	<0.04	0.47	0.42	0.43	0.49	0.18	<0.04	0.07	0.11	0.38
Dibenz(a,h)anthracene	mg/kg	0.01	0.28[#2]			1.06	0.12	0.41	0.1	0.06	<0.04	0.39	0.42	0.45	0.6	0.15	<0.04	<0.04	0.07	0.71
Fluoranthene	mg/kg	0.01	560[#2]			8.11	1.14	3.93	1.02	0.43	0.14	5.64	4.89	5.02	5.85	1.41	0.19	0.34	0.59	10.09
Fluorene	mg/kg	0.01	400[#2]			0.16	<0.04	0.07	<0.04	<0.04	<0.04	0.13	0.1	0.09	0.15	<0.04	<0.04	<0.04	<0.04	0.27
Indeno(1,2,3-c,d)pyrene	mg/kg	0.01	36[#2]			4.2	0.43	1.04	0.37	0.21	0.1	1.94	1.83	1.73	2.07	0.74	0.15	0.17	0.32	2.48
Naphthalene	mg/kg	0.01	5.6[#2]			<0.027 - 0.28	<0.027	<0.027 - 0.08	<0.027	<0.027	<0.027	<0.027 - 0.12	<0.027 - 0.1	<0.027 - 0.09	<0.027 - 0.12	<0.027	<0.027	<0.027	<0.027 - 0.13	<0.027 - 0.16
Phenanthrene	mg/kg	0.01	220[#2]			2.56	0.54	1.43	0.47	0.17	0.05	2.58	2.19	2.08	2.79	0.56	0.05	0.13	0.25	6.24
Pyrene	mg/kg	0.01	1,200[#2]			7.19	0.97	3.17	0.9	0.39	0.11	5.17	4.41	4.41	5.21	1.09	0.18	0.31	0.5	7.95
PAH 16 Total	mg/kg	0.6				55	6.8	22.6	6.1	3	1.1	33.4	29.6	29.3	36.4	9.3	1.6	2.2	4.3	52.9
PAH 17 Total	mg/kg	0.64				56.02	6.88	22.78	6.15	3.07	1.14	33.86	30.03	29.69	36.87	9.47	1.62	2.31	4.39	53.26
PCB (Dutch 7) congeners																				
PCB 28	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 52	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 101	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 118	ug/kg	5	120[#1]			<5 - 0.507	<5 - 5.86	<5 - 0.494	<5 - 1.07	<5 - 1.14	<5 - 0.249	<5 - 0.753	<5 - 1.12	<5 - 1.04	<5 - 1.14	<5 - 1.7	<5 - 0.253	<5 - 1.34	<5 - 2.78	<5 - 1.22
PCB 138	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 153	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 180	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total PCB 7 Congeners	ug/kg	35	200[#5]			<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
PCB (WHO12) 12 congeners																				
Tetrachlorobiphenyl, 3,3,4,4- (PCB 77)	ug/kg	Various	38[#1]			0.0339	0.0484	0.0314	0.0713	0.0619	0.0124	0.0813	0.115	0.106	0.173	0.0913	0.0122	0.0629	0.136	0.0332
Tetrachlorobiphenyl, 3,4,4,5- (PCB 81)	ug/kg	Various	12[#1]			0.00266	0.00165	0.00109	0.00135	0.00182	0.000687	0.00354	0.00514	0.00466	0.00705	0.0029	<0.000168	<0.000305	0.00172	0.00125
Pentachlorobiphenyl, 2,3,3,4,4- (PCB 105)	ug/kg	Various	120[#1]			0.228	2.38	0.231	0.569	0.537	0.117	0.355	0.535	0.525	0.573	0.886	0.111	0.634	1.34	0.523
Pentachlorobiphenyl, 2,3,4,4,5- (PCB 114)	ug/kg	Various	120[#1]			0.00466	0.0961	0.00502	0.00865	0.00947	0.00345	0.00728	0.0162	0.00841	0.018	0.0126	0.00257	0.0199	0.0241	0.011
Pentachlorobiphenyl, 2,3',4,4',5- (PCB-118)	ug/kg	Various	120[#1]			0.507	5.86	0.494	1.07	1.14	0.249	0.753	1.12	1.04	1.14	1.7	0.253	1.34	2.78	1.22
Pentachlorobiphenyl, 2,3,4,4,5- (PCB 123)	ug/kg	Various	120[#1]			0.0172	0.103	0.013	0.0353	0.0324	0.00706	0.0244	0.0461	0.0433	0.0343	0.0421	0.00502	0.036	0.0676	0.0251
Pentachlorobiphenyl, 3,3,4,4,5- (PCB 126)	ug/kg	Various	0.036[#1]			0.0119	0.00205	0.00688	0.0166	0.0154	<0.000476	0.0174	0.0288	0.0221	0.0271	0.00406	<0.002912	0.012	0.0302	0.0069
Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 156)	ug/kg	Various	120[#1]			0.104	0.808	0.0887	0.262	0.285	0.0559	0.21	0.265	0.248	0.28	0.486	0.0588	0.32	0.703	0.194
Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 157)	ug/kg	Various	120[#1]			0.0301	0.17	0.0208	0.0637	0.0695	0.0106	0.0603	0.102	0.0893	0.0943	0.161	0.0128	0.081	0.175	0.0448
Hexachlorobiphenyl, 2,3,4,4,5,5- (PCB 167)	ug/kg	Various	120[#1]			0.0481	0.291	0.0363	0.108	0.115	0.0207	0.114	0.199	0.132	0.151	0.247	0.0292	0.133	0.283	0.0723
Hexachlorobiphenyl, 3,3,4,4,5,5- (PCB 169)	ug/kg	Various	0.12[#1]			0.00211	0.000365	0.000528	<0.000218	0.000996	0.000158	0.00241	0.00639	0.00593	0.0063	0.000768	<0.000187	0.000913	0.00168	0.00154
Heptachlorobiphenyl, 2,3,3,4,4,5,5- (PCB 189)	ug/kg	Various	130[#1]			0.0144	0.0463	0.00769	0.025	0.0239	0.00564	0.0561	0.0579	0.0611	0.0657	0.0638	0.00722	0.0279	0.0371	0.0142
Chlorinated Dioxins and Furans																				
2378-TCDF	ng/kg	Various				12.8	<0.368	1.47	3.88	3.81	<0.196	13	19.5	21	24.5	<0.939	<0.982	3.93	3.68	5.11
12378-PeCDD	ng/kg	Various				2.68	<0.511	0.9	<0.497	0.475	<0.113	16.2	8.97	10.5	9.92	0.766	<0.636	0.603	<0.4	1.63
123478-HxCDD	ng/kg	Various				2.71	<0.447	0.561	1.05	0.901	0.593	25.2	13.4	18.5	16.5	<1.146	<0.66	1.04	1.11	1.1
123678-HxCDD	ng/kg	Various				6.17	<0.458	0.992	3.05	3.35	1.84	43	39.9	55.9	41.1	4.84	1.61	2.12	2.62	3.51
123789 HxCDD	ng/kg	Various				5.17	<0.459	0.833	1.67	1.55	0.994	40.3	25.7	35	31.3	<1.28	<0.716	1.74	1.94	2.2
1234678-HpCDD	ng/kg	Various				55.8	55.2	30.9	54.4	66.7	91.9	1,040	1,230	2,190	1,440	226	66.9	47.1	43.6	51.5
OCDD	ng/kg	Various				270	511	207	359	434	774	8,750	12,900	25,900	14,900	1,670	492	332	290	380
OCDF	ng/kg	Various				40.1	33.5	17.2	32.2	31.9	31.1	1,040	1,470	2,680	1,750	91	71.6	24.3	27.3	25.9
2378-TCDD	ng/kg	Various				<0.235	<0.263	<0.288	<0.432	<0.258	<0.132	<0.846	0.81	<0.437	1.68	<0.324	<0.311	<0.182	<0.201	<0.312
12378-PeCDF	ng/kg	Various				9.94	<0.339	1.34	1.57	1.69	<0.132	9.81	12.3	11.6	12.5	4.91	<0.437	2.33	2.61	3.44
23478-PeCDF	ng/kg	Various				8.96	<0.278	2.23	4.72	0.811	<0.111	11.7	15.4	20.5	16.6	<0.573	<0.339	3.63	3.88	4.7
123478-HxCDF	ng/kg	Various				10.9	<0.279	2.67	2.93	2.25	0.998	14.1	10.5	14.4	17.9	<0.784	<0.378	2.71	4.61	4.89
123678-HxCDF	ng/kg	Various				9.62	<0.268	2.08	1.77	2.22	1.01	13.2	18	19.9	19.2	4.77	<0.413	2.87	3.65	4.24
234678-HxCDF	ng/kg	Various				9.24	1.16	2.32	<0.387	1.78	1.26	18.2	19.5	24.3	20.4	6.12	<0.459	2.88	4.61	4.18
123789-HxCDF	ng/kg	Various				0.943	<0.285	<0.259	<0.403	<0.26	<0.144	2.02	<1.201	1.55	1.55	<0.852	<0.595	<0.237	<0.315	0.552
1234678-HpCDF	ng/kg	Various				54.7	16.3	17.5	28.2	25	18	275	384	535	441	82.8	131	19	23.7	33.6
1234789-HpCDF	ng/kg	Various				2.64	0.68	0.887	1.77	1.43	0.744	34	24.1	33.5	26.3	4.72	<3.012	1.18	1.78	1.49
Brominated Dioxins and Furans																				
2378-TBDD	ng/kg	Various				<0.8	<0.84	<0.85	<0.83	<0.83	<0.76	<0.78	<0.78	<0.76	<0.76	<0.78	<0.79	<0.47	<0.48	<0.44
12378-PBDD	ng/kg	Various				<0.81	<0.82	<0.82	<0.83	<0.83	<0.81	<0.81	<0.74	<0.8	<0.79	<0.8	<0.8	<0.5	<0.5	<0.49
123478-HxBDD	ng/kg	Various				<0.77	<0.85	<0.84	<0.84	<0.84	<0.79	<0.8	<0.8	<0.8	<0.77	<0.8	<0.81	<0.54	<0.54	<0.52
123678-HxBDD	ng/kg	Various				<0.79	<0.85	<0.85	<0.82	<0.82	<0.7	<0.78	<0.7	<0.76	<0.8	<0.8	<0.8	<0.47	<0.47	<0.48
123789-HxBDD	ng/kg	Various				<0.73	<0.86	<0.85	<0.84	<0.81	<0.75	<0.79	<0.77	<0.79	<0.79	<0.77	<0.78	<0.48	<0.49	<0.46
1234678-HpBDD	ng/kg	Various				<0.78	<0.83	<0.83	<0.83	<0.83	<0.74	2.56	1.11	1.88	2.68	<0.81	<0.81	<0.59	<0.6	<0.57
OBDD	ng/kg	Various				<0.82	<0.84	<0.85	<0.82	<0.85	<0.78	<0.78	<0.81	<0.83	<0.81	<0.82	<0.8	<0.83	<0.85	<0.88
2378-TBDF	ng/kg	Various				3.08	1.29	1.08	2.26	1.89	1.29	16.89	12.66	23.55	11.09	3.78	3.91	2.13	2.22	2.81
12378-PBDF	ng/kg	Various				1.66	0.88	<0.83	1.6	1.9	0.92	12.29	10.91	18.91	8.89	2.57	2.66	1.7	1.51	1.75
23478-PBDF	ng/kg	Various				1.19	<0.82	<0.84	0.95	1.14	<0.77	5.91	5.87	8.45	6.23	1.29	1.68	0.84	0.67	0.9
123478-HxBDF	ng/kg	Various				1.9	<0.84	<0.84	<0.85	0.88	0.71	6.88	3.87	7.9	5.52	1.85	1.29	0.55	0.55	0.61
123678-HxBDF	ng/kg	Various				2.27	0.97	0.85	<0.83	<0.83	<0.8	5.4	4.21	4.13	3.16	0.75	0.89	0.54	0.6	0.58
234678-HxBDF	ng/kg	Various				<0.88	0.83	<0.82	<0.85	<0.85	<0.84	3.15	7.32	9.22	5.92	<0.82	<0.8	<0.45	<0.44	<0.41
123789-HxBDF	ng/kg	Various				<0.82	<0.83	<0.84	<0.84	<0.85	<0.8	1.88	2.55	3.56	1.85	<0.83	<0.79	<0.5	<0.53	<0.33
1234678-HpBDF	ng/kg	Various				<0.79	<0.84	<0.84	<0.82	<0.82	<0.8	5.03	8.35	12.11	14.77	1.8	1.5	<0.41	<0.4	<0.45
1234789-HpBDF	ng/kg	Various				<0.83	<0.81	<0.84	<0.82	<0.83	0.82	1.22	2.7	4.9	6.32	<0.82	<0.78	<0.47	<0.46	<0.57
OBDF	ng/kg	Various				<0.85	<0.84	<0.84	<0.85	<0.84	<0.84	0.9	4.08	3.34	5.9	<0.8	<0.8	<0.58	<0.59	<0.62
Organophosphorous flame retardants																				
Triphenylphosphate	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tris(1-chloro-2-propyl)phosphate	mg/kg	Various	630[#1]			<0.15	<0.2	<0.5	<0.1	<0.15	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.5	<0.15	<0.5	<0.15
Tris(2-ethylhexyl) phosphate	mg/kg	0.1	170[#1]			<0.1	<0.1	0.14	0.21	0.15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration															
Location					GTCS 1-24	GTCS 1-25	GTCS 1-26	GTCS 1-27	GTCS 1-28	GTCS 1-29	GTCS 1-30				GTCS 1-31	GTCS 1-32	GTCS 1-33	GTCS 1-34	GTCS 1-35
Date					05/06/2019	05/06/2019	05/06/2019	05/06/2019	05/06/2019	06/06/2019	06/06/2019				07/06/2019	07/06/2019	04/06/2019	04/06/2019	04/06/2019
Sample Type					Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D			Normal	Normal	Normal	Normal	Normal
Sample Area					Avondale Park Gardens	Bramley House	Bramley House	Whitstable House	Whitstable House	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	St. Quintin Community Kitchen Garden	Markland House	Markland House	Darfield Way	Darfield Way	Robinson House
Field ID					GTCS 1-24A	GTCS 1-25A	GTCS 1-26A	GTCS 1-27A	GTCS 1-28A	GTCS 1-29A	GTCS 1-30 PRIMARY SAMPLE	GTCS 1-30 FIELD DUPLICATE	GTCS 1-30 LAB DUPLICATE	GTCS 1-30 LAB FIELD DUPLICATE	GTCS 1-31A	GTCS 1-32A	GTCS 1-33A	GTCS 1-34A	GTCS 1-35A
Sample_Depth_Range					0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
Brominated flame retardents (PBDEs)																			
2,2",4-tribromodiphenyl ether (BDE-17)	mg/kg	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,4"-tribromodiphenyl ether (BDE-28)	mg/kg	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4"-tetrabromodiphenyl ether (BDE-47)	mg/kg	0.1	6.3[#1]		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,3",4,4"-tetrabromodiphenyl ether (BDE-66)	mg/kg	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",3,4,4"-pentabromodiphenyl ether (BDE-85	mg/kg	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4",5-pentabromodiphenyl ether (BDE-99	mg/kg	0.1	6.3[#1]		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4",6-pentabromodiphenyl ether (BDE-10	mg/kg	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",3,4,4",5"-hexabromodiphenyl ether(BDE-1	mg/kg	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4",5,5"-hexabromodiphenyl ether(BDE-1	mg/kg	0.1	13[#1]		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4",5,6"-hexabromodiphenyl ether(BDE-1	mg/kg	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2,3,4,4,5,6-heptabromodiphenyl ether (BDE-1	mg/kg	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polybrominated biphenyls (PBBs)																			
2,2-dibromobiphenyl (PBB 4)	mg/kg	0.5	0.018[#1]		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4,4-dibromobiphenyl (PBB 15)	mg/kg	0.5	0.018[#1]		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,2,5-tribromobiphenyl (PBB 18)	mg/kg	0.5	0.018[#1]		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
tetrabromobiphenyl (3,3,5,5-) (PBB 80)	mg/kg	0.5	0.018[#1]		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexabromobiphenyl (PBB 153)	mg/kg	0.5	0.018[#1]		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrabromobisphenol A																			
tetrabromobisphenol A	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexabromocyclododecane (HBCDD)																			
Hexabromocyclododecane (HBCDD)	mg/kg	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isocyanates																			
Isocyanic Acid	ug/kg	250			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Methyl Isocyanate	ug/kg	250	4,600[#1]		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Ethyl Isocyanate	ug/kg	250			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Propyl Isocyanate	ug/kg	250			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Phenyl Isocyanate	ug/kg	250			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Hexamethylene diisocyanate	ug/kg	250	3,100[#1]		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
2,4-Toluene diisocyanate	ug/kg	250	6,400[#1]		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
2,6-Toluene diisocyanate	ug/kg	250	5,300[#1]		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Isophorone Diisocyanate	ug/kg	500			<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500
4,4-Methylene-bis(phenyl-isocyanate)	ug/kg	250	850,000,000[#1]		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Cyanides																			
Cyanide (Free)	mg/kg	0.5	20[#5]		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide Total	mg/kg	0.5	78[#1]		0.6	<0.5	<0.5	<0.5	<0.5	<0.5	2.1	2.6	2.2	2.4	2.2	0.5	<0.5	<0.5	<0.5
Thiocyanate	mg/kg	0.6	20[#5]		1.8	<0.6	1.9	0.7	0.8	2.9	<0.6	<0.6	<0.6	<0.6	0.9	1.3	<0.6	1.2	0.9
Asbestos																			
General Description (Bulk Analysis)	None				soil-stones	soil-stones	soil-stones	soil-stones	soil-stones	soil-stones	soil-stones	soil-stones	soil-stones	soil/stones	soil.stones	soil.stones	soil.stones	soil.stones	soil.stones
Asbestos Fibres	None				NAD	NAD	NAD	NAD	NAD	Fibre Bundles	Fibre Bundles	Fibre Bundles	Fibre Bundles	Fibre Bundles	NAD	NAD	NAD	NAD	NAD
Asbestos ACM	None				NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Asbestos Type	None				NAD	NAD	NAD	NAD	NAD	Chrysotile	Chrysotile	Chrysotile	Chrysotile	Chrysotile	NAD	NAD	NAD	NAD	NAD
Asbestos Level Screen					NAD	NAD	NAD	NAD	NAD	less than 0.1%	less than 0.1%	less than 0.1%	less than 0.1%	less than 0.1%	NAD	NAD	NAD	NAD	NAD
Potentially Respirable Fibres per gram	f/g	0			-	-	-	-	-	0	0	0	0	0	-	-	-	-	-
SVF / MMMF																			
Synthetic/MMMF	None				Absent	Present	Present	Absent	Absent	Present	Absent	Absent	Absent	Present	Present	Absent	Absent	Absent	Absent
Asbestos Quantification																			
Asbestos Gravimetric & PCOM Total	mass %	0.001			-	-	-	-	-	<0.001	<0.001	<0.001	0.001	<0.001	-	-	-	-	-
Asbestos PCOM Quantification (Fibres)	mass %	0.001			-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-
Total ACM Gravimetric Quantification (% Asb)	mass %	0.001			-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-
Total Detailed Gravimetric Quantification (% As	mass %	0.001			-	-	-	-	-	<0.001	<0.001	<0.001	0.001	<0.001	-	-	-	-	-
Asbestos Quantification - Total - %	mass %	0.001			-	-	-	-	-	<0.001	<0.001	<0.001	0.001	<0.001	-	-	-	-	-
Total Organic Carbon																			
TOC	percent	0.02			5.84	3.66	8.2	5.09	4.48	5.84	6.15	8.09	9.07	7.83	4.83	3	3.1	5.16	5.33
Inorganics																			
pH (Lab)	pH units	0.01			7.27	8.09	7.51	7.45	7.29	7.53	7.75	7.83	7.77	7.78	7.63	7.5	7.82	6.99	7.58
Other																			
Natural Moisture Content	percent	0.1			15.2	15.2	33.3	16.3	18.1	27.7	17.6	16.4	16	17.8	8.2	5.8	18	9.1	11.7
ESdat Calculated																			
Cresols Total	ug/kg	20	180[#3]		<20	<20	221	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Benzo(a)pyrene (surrogate marker for PAH mix	mg/kg	0.01	5.0[#6]		5.75	0.65	1.96	0.55	0.3	0.13	2.87	2.81	2.64	3.18	0.96	0.19	0.21	0.38	3.97
Xylene Total	ug/kg	8	130,000[#2]		<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Trichlorobenzene (total)	ug/kg	14	2200[#5]		<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
AECOM Calculated																			
Sum of PCDD/F +PCB12	ng/kg	Various	8700[#4]		1526	10444	1240	2746	2887	1420	13098	18758	33961	21417	5820	1288	3128	6007	2689
PCDD/F+PBDD/F+PCB12 Hazard Index	-	-	1		0.15	0.02	0.04	0.07	0.06	0.02	0.6				0.08	0.03	0.06	0.09	0.08
WHO2005 TEQ (PCDD/F + PBDD/F + PCB)	ng/kg	Various			15.063	1.849	4.189	6.149	5.744	2.273	60.851	58.536	82.803	66.384	7.815	3.532	6.206	8.079	8.234

Comments
#1 USEPA RSL (May 2019)
#2 LQM/CIEH S4ULs 2015
#3 EIC/AGS/CL:AIRE 2010
#4 EA SGV 2009
#5 Dutch IV 2013
#6 Defra C4SL 2014
#7 AECOM (modified EIC GAC to include plant uptake route)
GSC based on residential (with private gardens) land use scenario
2.5% soil organic matter content selected for GSC #2 and #3
(blank): No assessment criteria available
- : Not analysed
Field_D: Field Duplicate
NAD: No Asbestos Detected

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	Location	GTCS 1-36				GTCS 1-37	GTCS 1-38	GTCS 1-39				GTCS 1-40	GTCS 1-41			
					Date	04/06/2019				04/06/2019	04/06/2019	04/06/2019				04/06/2019	04/06/2019			
					Sample Type	Normal	Field_D			Normal	Normal	Normal	Field_D			Normal	Normal	Field_D		
					Sample Area	Robinson House	Robinson House	Robinson House	Robinson House	Kensington Memorial Park	Kensington Memorial Park	West London Bowling Club	West London Bowling Club	West London Bowling Club	West London Bowling Club	West London Bowling Club	St. Quintins' Roundabout	St. Quintins' Roundabout	St. Quintins' Roundabout	St. Quintin's Roundabout
					Field ID	GTCS 1-36 PRIMARY SAMPLE	GTCS 1-36 FIELD DUPLICATE	GTCS 1-36 LAB DUPLICATE	GTCS 1-36 LAB FIELD DUPLICATE	GTCS 1-37A	GTCS 1-38A	GTCS 1-39 PRIMARY SAMPLE	GTCS 1-39 FIELD DUPLICATE	GTCS 1-39 LAB DUPLICATE	GTCS 1-39 LAB FIELD DUPLICATE	GTCS 1-40A	GTCS 1-41 PRIMARY SAMPLE	GTCS 1-41 FIELD DUPLICATE	GTCS 1-41 LAB DUPLICATE	GTCS 1-41 LAB FIELD DUPLICATE
					Sample_Depth_Range	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
Metals																				
Aluminium	mg/kg	50	77,000[#1]			9,831 - 13,789	10,450 - 13,120	9,865 - 12,830	14,330	7,627	25,210	13,595 - 13,720	13,090 - 17,285	19,970	14,080 - 16,029	15,970	16,920	17,890	17,060	17,570
Arsenic	mg/kg	0.5	37[#6]	***32***		15 - 16.1	15.1 - 18	14.2 - 18.4	14.6	11.7	16.1	27.4 - 30.3	28.2 - 30.7	***32.6***	29.1 - 31.9	25.8	19.7	20.2	20.7	21.2
Barium	mg/kg	1	460[#7]			175 - 235	175 - 230	187 - 209	222	143	168	200 - 252	201 - 220	361	197 - 210	563	258	266	258	269
Beryllium	mg/kg	0.5	1.7[#2]			1.1 - 1.4	1.1 - 1.3	1.1 - 1.3	1.4	0.8	1.8	1.5 - 1.8	1.6 - 2.1	2.7	1.6 - 1.8	2.2	1.7	1.7	1.7	1.7
Boron	mg/kg	0.1	290[#2]			2.2 - 2.6	2.3 - 2.5	2.3 - 2.6	2.7	9.8	3.7	3.7 - 4.6	3.8 - 4.1	4.3	3.7 - 4	4.3	2.5	2.4	2.7	2.6
Cadmium	mg/kg	0.1	22[#6]	***2.1***		0.6 - 0.7	0.6 - 0.8	0.6 - 0.8	0.7	0.7	0.5	0.6 - 0.7	0.6 - 0.7	0.9	0.7	1	0.8	0.9	0.9	0.9
Chromium (Trivalent)	mg/kg	0.5	910[#2]			28.8 - 34	29.2 - 33.5	30.5 - 35.4	101.4	95.4	88.8	29.1 - 34.4	32.5 - 35.8	68.9	35.6 - 36.5	70.5	106	112.4	102.5	97.2
Chromium (hexavalent)	mg/kg	0.3	21[#6]			<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium (III+VI)	mg/kg	0.5	Use either CrIII or CrVI[#2]			28.8 - 34	29.2 - 33.5	30.5 - 35.4	101.4	95.4	88.8	29.1 - 34.4	32.5 - 35.8	68.9	35.6 - 36.5	70.5	106	112.4	102.5	97.2
Copper	mg/kg	1	2,400[#2]	***190***		83 - 110	85 - 98	87 - 95	92	54	54	58 - 66	58 - 71	71	63 - 69	76	98	103	103	101
Lead	mg/kg	5	200[#6]	***820***		296 - 341	294 - 327	321 - 385	275	178	214	342 - 398	373 - 392	431	375 - 393	***1,311***	552	556	571	564
Mercury	mg/kg	0.1	40[#2]	***1.9***		<0.1 - 0.3	0.1 - 0.4	<0.1 - 0.4	0.5	0.3	0.5	***1.9 - 2.7***	***2.3 - 3.2***	***3***	***2 - 3***	***2.1***	1	0.9	2.4	1
Nickel	mg/kg	0.7	130[#2]	***42***		22.7 - 26.4	22.6 - 28	23.4 - 24.7	26.4	18.7	30.8	23.1 - 26.3	23.5 - 27.8	34.6	26.9 - 28.5	30	28.9	29.4	29.4	29.7
Selenium	mg/kg	1	250[#2]			<1 - 1	<1	1	<1	<1	2	1	1	2	1 - 2	2	2	2	2	2
Vanadium	mg/kg	1	410[#2]			41 - 53	44 - 52	42 - 49	53	35	95	57 - 61	60 - 66	82	65 - 67	59	70	74	72	73
Zinc	mg/kg	5	3,700[#2]			271 - 337	269 - 312	270 - 325	298	199	160	246 - 285	258 - 290	308	287	318	347	357	362	364
VOCs																				
1,1,1,2-tetrachloroethane	ug/kg	5	2,800[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-trichloroethane	ug/kg	5	18,000[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,2,2-tetrachloroethane	ug/kg	3	3,400[#2]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1,2-trichloroethane	ug/kg	4	1,200[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,1-dichloroethane	ug/kg	6	1,200[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
1,1-dichloroethene	ug/kg	6	3,900[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
1,1-dichloropropene	ug/kg	3				<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2,3-trichlorobenzene	ug/kg	7	3,600[#2]			<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
1,2,3-trichloropropane	ug/kg	4	5.1[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,2,4-trimethylbenzene	ug/kg	6	850[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
1,2-dibromo-3-chloropropane	ug/kg	4	5.3[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,2-dibromoethane	ug/kg	3	36[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2-dichloroethane	ug/kg	5	11[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-dichloropropane	ug/kg	4	42[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,3,5-trimethylbenzene	ug/kg	3	270,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,3-dichloropropane	ug/kg	4	1,600,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
2,2-dichloropropane	ug/kg	4				<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
2-chlorotoluene	ug/kg	3	1,600,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
4-chlorotoluene	ug/kg	3	1,600,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Benzene	ug/kg	5	870[#6]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromobenzene	ug/kg	2	2,000[#3]			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Bromochloromethane	ug/kg	4	150,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromodichloromethane	ug/kg	4	290[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromoform	ug/kg	4	5,900[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	ug/kg	1	6,800[#1]			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3-Methyl butanal	ug/kg	100				-	-	-	-	-	-	-	-	152	-	-	-	-	-	-
Carbon tetrachloride	ug/kg	4	56[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chlorobenzene	ug/kg	4	1,000[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chlorodibromomethane	ug/kg	5	8,300[#1]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	ug/kg	6	11,000[#3]			7	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
Chloroform	ug/kg	5	1,700[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloromethane	ug/kg	3	9.8[#3]			19	6	6	4	50	36	12	10	13	10	27	27	28	30	33
cis-1,2-dichloroethene	ug/kg	7	190[#3]			<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
cis-1,3-dichloropropene	ug/kg	4				<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromomethane	ug/kg	4	24,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dichlorodifluoromethane	ug/kg	2	87,000[#1]			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloromethane	ug/kg	30	980[#3]			<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Ethylbenzene	ug/kg	3	110,000[#2]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Eucalyptol	ug/kg	100				-	-	-	-	-	-	317	447	2,367	614	-	-	-	-	-
Isopropylbenzene	ug/kg	3	27,000[#3]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Methyl Methacrylate	ug/kg	100	4,400,000[#1]			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MTBE	ug/kg	6	84,000[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
n-butylbenzene	ug/kg	4	3,900,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
n-propylbenzene	ug/kg	4	82,000[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
sec-butylbenzene	ug/kg	4	7,800,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/kg	3	19,000[#3]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
tert-butylbenzene	ug/kg	5	7,800,000[#1]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethene	ug/kg	3	390[#2]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Toluene	ug/kg	3	290,000[#2]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
trans-1,2-dichloroethene	ug/kg	3	340[#3]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
trans-1,3-dichloropropene	ug/kg	3				<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Trichloroethene	ug/kg	5	34[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichlorofluoromethane	ug/kg	3	23,000,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Undecane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene (m & p)	ug/kg	4				<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Xylene (o)	ug/kg	4	140,000[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vinyl chloride	ug/kg	2	0.87[#2]			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
VOC TICs	None					0	0	0	0	0	0	-	-	-	-	-	0	0	0	0
Trihalomethanes	ug/kg					<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	Location	GTCS 1-36				GTCS 1-37	GTCS 1-38	GTCS 1-39				GTCS 1-40	GTCS 1-41			
					Date	04/06/2019				04/06/2019	04/06/2019	04/06/2019				04/06/2019	04/06/2019			
					Sample Type	Normal	Field_D			Normal	Normal	Normal	Field_D			Normal	Normal	Field_D		
					Sample Area	Robinson House	Robinson House	Robinson House	Robinson House	Kensington Memorial Park	Kensington Memorial Park	West London Bowling Club	West London Bowling Club	West London Bowling Club	West London Bowling Club	West London Bowling Club	St. Quintins' Roundabout	St. Quintins' Roundabout	St. Quintins' Roundabout	St. Quintin's Roundabout
					Field ID	GTCS 1-36 PRIMARY SAMPLE	GTCS 1-36 FIELD DUPLICATE	GTCS 1-36 LAB DUPLICATE	GTCS 1-36 LAB FIELD DUPLICATE	GTCS 1-37A	GTCS 1-38A	GTCS 1-39 PRIMARY SAMPLE	GTCS 1-39 FIELD DUPLICATE	GTCS 1-39 LAB DUPLICATE	GTCS 1-39 LAB FIELD DUPLICATE	GTCS 1-40A	GTCS 1-41 PRIMARY SAMPLE	GTCS 1-41 FIELD DUPLICATE	GTCS 1-41 LAB DUPLICATE	GTCS 1-41 LAB FIELD DUPLICATE
					Sample_Depth_Range	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
SVOCs																				
Dibenzo[a,e]pyrene	ug/kg	100	42[#1]			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-methylnaphthalene	ug/kg	10	240,000[#1]			121	61	146	108	24	32	49	90	61	64	35	104	91	100	104
4-bromophenyl phenyl ether	ug/kg	10				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-chlorophenyl phenyl ether	ug/kg	10				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Azobenzene	ug/kg	10	5,600[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bis(2-chloroethoxy) methane	ug/kg	10	190,000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bis(2-chloroethyl)ether	ug/kg	10	230[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbazole	ug/kg	10				112	82	797	381	116	203	93	93	103	82	75	362	357	359	365
Dibenzofuran	ug/kg	10	73,000[#1]			56	30	122	90	19	38	37	51	47	40	27	98	81	93	88
Hexachlorobutadiene	ug/kg	4	700[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hexachlorocyclopentadiene	ug/kg	10	1,800[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexachloroethane	ug/kg	10	480[#3]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Anilines																				
2-nitroaniline	ug/kg	10	630,000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3-nitroaniline	ug/kg	10				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-chloroaniline	ug/kg	10	2,700[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-nitroaniline	ug/kg	10	27,000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Amino Aliphatics																				
N-nitrosodi-n-propylamine	ug/kg	10	78[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Explosives																				
2,4-Dinitrotoluene	ug/kg	10	3,200[#3]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,6-dinitrotoluene	ug/kg	10	1,700[#3]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nitrobenzene	ug/kg	10	5,100[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Phenolics																				
2,4-dimethylphenol	ug/kg	10	43,000[#3]			<10	<10	<10	18	25	<10	<10	<10	<10	<10	<10	24	22	21	29
2-chloronaphthalene	ug/kg	10	9,200[#3]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-methylphenol	ug/kg	10	Use Cresols Total[#3]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-nitrophenol	ug/kg	10				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-chloro-3-methylphenol	ug/kg	10	6,300,000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-methylphenol	ug/kg	10	Use Cresols Total[#3]			<10	<10	<10	<10	136	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-nitrophenol	ug/kg	10				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phenol	ug/kg	10	200,000[#2]			<10	<10	<10	<10	598	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Halogenated Phenols																				
2,4,5-trichlorophenol	ug/kg	10	6,300,000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4,6-trichlorophenol	ug/kg	10	49,000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4-dichlorophenol	ug/kg	10	190,000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-chlorophenol	ug/kg	10	390,000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Pentachlorophenol	ug/kg	10	520[#2]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Halogenated Benzenes																				
1,2,4-trichlorobenzene	ug/kg	7	6,400[#2]			<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
1,2-dichlorobenzene	ug/kg	4	55,000[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,3-dichlorobenzene	ug/kg	4	1,000[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,4-dichlorobenzene	ug/kg	4	150,000[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hexachlorobenzene	ug/kg	10	3,300[#2]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Phthalates																				
Bis(2-ethylhexyl) phthalate	ug/kg	100	610,000[#3]			613	1,121	812	766	527	155	<100	141	<100	122	282	637	540	520	491
Butyl benzyl phthalate	ug/kg	100	3,300,000[#3]			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Diethylphthalate	ug/kg	100	260,000[#3]			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Dimethyl phthalate	ug/kg	100	16,400[#5]			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Di-n-butyl phthalate	ug/kg	100	31,000[#3]			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Di-n-octyl phthalate	ug/kg	100	2,800,000[#3]			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SVOC - Solvents																				
Isophorone	ug/kg	10	570,000[#1]			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC TIC																				
SVOC TICs	None					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.alpha.-Phellandrene	ug/kg	100				-	-	-	-	-	-	-	1,967	-	980	-	-	-	-	-
.alpha.-Pinene	ug/kg	100				-	-	-	-	-	-	-	-	-	1,009	216	-	-	-	-
.beta.-Guaiene	ug/kg	100				-	-	-	-	-	-	-	-	-	134	-	-	-	-	-
[1,1-Biphenyl]-4-carboxaldehyde	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1(2Aminobenzylidene)1234-tetrahydroacridineN	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl, 2,3,3,4-tetrachloro-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl, 2,3,3,5-tetrachloro-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl, 2,3,4,6-tetrachloro-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-die	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,9,10-Dibenzopyrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	742
1,5,5-Trimethyl-6-methylene-cyclohexene	ug/kg	100				-	-	-	-	-	-	5,220	1,663	-	580	-	-	-	-	-
1,6-Dimethylphenazine	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10,18-Bisnorabieta-5,7,9(10),11,13-pentaene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10,18-Bisnorabieta-8,11,13-triene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10s,11s-Himachala-3(12),4-diene	ug/kg	100				-	-	-	-	-	-	-	-	-	3,879	-	-	-	-	-
11H-Benzo[a]carbazole	ug/kg	100				-	-	-	-	-	-	-	1,968	-	-	-	527	-	-	-
11H-Benzo[a]fluoren-11-one	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	235	281	284
11H-Benzo[a]fluoren-11-one, 10-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11H-Benzo[a]fluorene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	1,129	1,160	-	1,232
11H-Benzo(b)fluorene	ug/kg	100				-	-	-	-	-	-	-	1,689	-	-	-	410	485	478	387
11H-Indeno(1,2-b)quinoline	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13-Docosenamide, (Z)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13-Isopropylpodocarpen-12-ol-20-al	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Cyclopropa[l]phenanthrene,1a,9b-dihydro-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methyldibenzothiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Naphthalenecarboxylic acid, 2-benzoyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-(2H-Benzotriazol-2-yl)-5-methylphenol	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-(Acetoxymethyl)-3-(methoxycarbonyl)bipheny	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration																
					Location	GTCS 1-36				GTCS 1-37	GTCS 1-38	GTCS 1-39				GTCS 1-40	GTCS 1-41			
					Date	04/06/2019				04/06/2019	04/06/2019	04/06/2019				04/06/2019	04/06/2019			
					Sample Type	Normal	Field_D			Normal	Normal	Normal	Field_D			Normal	Normal	Field_D		
					Sample Area	Robinson House	Robinson House	Robinson House	Robinson House	Kensington Memorial Park	Kensington Memorial Park	West London Bowling Club	West London Bowling Club	West London Bowling Club	West London Bowling Club	West London Bowling Club	St. Quintins' Roundabout	St. Quintins' Roundabout	St. Quintins' Roundabout	St. Quintin's Roundabout
					Field ID	GTCS 1-36 PRIMARY SAMPLE	GTCS 1-36 FIELD DUPLICATE	GTCS 1-36 LAB DUPLICATE	GTCS 1-36 LAB FIELD DUPLICATE	GTCS 1-37A	GTCS 1-38A	GTCS 1-39 PRIMARY SAMPLE	GTCS 1-39 FIELD DUPLICATE	GTCS 1-39 LAB DUPLICATE	GTCS 1-39 LAB FIELD DUPLICATE	GTCS 1-40A	GTCS 1-41 PRIMARY SAMPLE	GTCS 1-41 FIELD DUPLICATE	GTCS 1-41 LAB DUPLICATE	GTCS 1-41 LAB FIELD DUPLICATE
					Sample_Depth_Range	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
2,3,3,,5,6-Pentachloro-1,1-biphenyl	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,3,6-Tetrachloro-1,1-biphenyl	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6-Tetrachloro-1,1-biphenyl	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Cycloheptatrien-1-one, 2-phenyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dimethyldibenzothiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,9-Dimethyl-2,3,4,5,6,7hexahydro-1H-2-benza	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Bromo-4,5-dimethoxycinnamic acid	ug/kg	100				-	-	-	-	-	-	-	670	-	-	-	-	-	-	-
2Chloro2methyl1oxa2sila-1,2-dihydronaphthale	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylchrysene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	180	-	-	-	-
2-Propenal, 3-(4-hydroxy-3-methoxyphenyl)-	ug/kg	100				-	-	-	-	784	-	-	-	-	-	-	-	783	-	-
3,3-Dimethylbiphenyl	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,4:8,9-Dibenzopyrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,4-Dichlorobenzonitrile	ug/kg	100				-	-	-	-	-	-	-	284	-	-	-	-	-	-	-
3,5-Dimethoxy-4-hydroxycinnamaldehyde	ug/kg	100				-	-	-	-	300	-	-	-	-	-	-	-	413	-	-
3-Bromo-5-ethoxy-4-hydroxybenzaldehyde	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4-Bis(tetrahydrothiopyran)	ug/kg	100				-	-	-	-	-	-	-	-	240	-	-	575	496	631	583
4H-Cyclopenta[def]phenanthrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6H-Benz[de]anthracen-6-one	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7H-Benz(de)anthracen-7-one	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8,9-Dihydro-7H-cyclopenta[a]pyrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9,10-Anthracenedione	ug/kg	100	14,000[#1]			-	-	-	-	-	-	-	845	-	-	-	215	313	199	-
9,10-Anthracenedione, 2-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9,10-Bis(bromomethyl)anthracene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9,10-Dimethylanthracene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9-Anthracenecarbonitrile	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Cyclopenta[a]pyrene	ug/kg	100				-	-	-	-	-	-	-	1,567	-	-	-	-	-	-	-
9H-Fluoren-9-ol	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluoren-9-one	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluorene, 1-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluorene, 2-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluorene, 9-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Abietic acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alloaromadendrene	ug/kg	100				-	-	-	-	-	-	18,260	-	776	296	-	-	-	-	-
Anthra(1,2-b)thiophene	ug/kg	100				-	-	415	445	-	-	-	-	-	-	-	-	-	-	-
Anthra(2,3-b)thiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene, 1-methyl-	ug/kg	100				-	-	-	-	-	-	-	2,739	-	-	-	-	218	-	187
Anthracene, 2-ethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene, 2-methyl-	ug/kg	100				-	-	-	169	-	-	-	-	-	-	-	-	-	-	-
Aromandendrene	ug/kg	100				-	-	-	-	-	-	3,643	6,997	1,778	709	-	-	-	-	-
Benz(A)anthracene-7,12-dione	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz(a)anthracene-7-carbonitrile	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz[a]anthracene, 12-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	794	-	-
Benz[a]anthracene, 1-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz[a]anthracene, 7-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	786	-	979	835
Benz[j]aceanthrylene, 3-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde, 4-hydroxy-3,5-dimethoxy-	ug/kg	100				-	-	-	-	424	-	-	-	-	-	-	-	-	-	-
Benzenamine, 2,4,6-tribromo-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, (4,5,5-trimethyl-1,3-cyclopentadien-1-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Sulfonylbis (4-chlorobenzene)	ug/kg	100	51,000[#1]			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzenesulfonamide, 4-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]naphtho[1,2-d]furan	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(c)carbazole	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]naphtho[1,2-d]thiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]naphtho[2,1-d]thiophene	ug/kg	100				-	-	-	-	-	-	-	2,257	233	-	-	1,102	562	584	739
Benzo[b]naphtho[2,3-d]furan	ug/kg	100				-	-	-	165	-	-	-	1,886	-	-	-	286	446	412	455
Benzo[b]naphtho[2,3-d]thiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]triphenylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[c]cinnoline	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[c]phenanthrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(e)pyrene	ug/kg	100				574	594	1,062	2,669	-	664	2,604	8,088	1,406	-	-	2,453	1,991	2,636	2,335
Benzo[ghi]fluoranthene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[h]quinoline, 2,4-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[kl]xanthene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzoic acid, hexyl ester	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl	ug/kg	100	160,000[#3]			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylated Hydroxytoluene	ug/kg	100	150,000[#1]			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Camphor (TIC)	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene, 1-methyl-	ug/kg	100				-	-	307	337	-	-	-	2,776	-	-	-	437	488	470	441
Chrysene, 5-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene, 6-methyl-	ug/kg	100				-	-	-	-	-	-	-	1,191	-	-	-	-	-	-	-
Cyclopenta(cd)pyrene, 3,4-dihydro-	ug/kg	100				-	-	-	-	-	-	-	1,883	-	-	-	-	758	1,002	-
Cyclopenta(def)phenanthrenone	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dehydroabietic acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-Homoandrostane, (5.alpha.,13.alpha.)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,e)aceanthrylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,i)pyrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo[def,mno]chrysene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran, 4-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzothiophene	ug/kg	100	780,000[#1]			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzothiophene, 3-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzothiophene, 4,6-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dicyclohexyl phthalate	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diphenyl sulfide	ug/kg	100				-	433	374	392	372	-	-	-	-	-	-	300	394	244	250
di-p-Tolylacetylene	ug/kg	100				-	-	-	-	-	-	-	845	-	-	-	-	-	-	-
D-Limonene	ug/kg	100				-	-	-	-	-	-	-	-	-	1,603	-	-	-	-	-
Eicosane	ug/kg	100				-	-	-	-	-	-	-	10,651	-	-	-	-	-	-	-
Ferruginol	ug/kg	100				-	-	-	-	-	-	-	-	-	-	2,005	-	-	-	-
Fluoranthene, 2-methyl-	ug/kg	100				-	-	533	707	-	-	-	2,010	-	-	-	-	-	1,169	-
Fluorene, 2,4a-dihydro-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heneicosane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	1,432	-	-	-	-
Heneicosane, 3-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptadecane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	485	-	-	-	-
Hexadecane	ug/kg	100				-	-	-	-	-	-	-	-	-	1,613	-	-	-	-	-
Hexathiane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration																
					Location	GTCS 1-36				GTCS 1-37	GTCS 1-38	GTCS 1-39				GTCS 1-40	GTCS 1-41			
					Date	04/06/2019				04/06/2019	04/06/2019	04/06/2019				04/06/2019	04/06/2019			
					Sample Type	Normal	Field_D			Normal	Normal	Normal	Field_D			Normal	Normal	Field_D		
					Sample Area	Robinson House	Robinson House	Robinson House	Robinson House	Kensington Memorial Park	Kensington Memorial Park	West London Bowling Club	West London Bowling Club	West London Bowling Club	West London Bowling Club	West London Bowling Club	St. Quintins' Roundabout	St. Quintins' Roundabout	St. Quintins' Roundabout	St. Quintin's Roundabout
					Field ID	GTCS 1-36 PRIMARY SAMPLE	GTCS 1-36 FIELD DUPLICATE	GTCS 1-36 LAB DUPLICATE	GTCS 1-36 LAB FIELD DUPLICATE	GTCS 1-37A	GTCS 1-38A	GTCS 1-39 PRIMARY SAMPLE	GTCS 1-39 FIELD DUPLICATE	GTCS 1-39 LAB DUPLICATE	GTCS 1-39 LAB FIELD DUPLICATE	GTCS 1-40A	GTCS 1-41 PRIMARY SAMPLE	GTCS 1-41 FIELD DUPLICATE	GTCS 1-41 LAB DUPLICATE	GTCS 1-41 LAB FIELD DUPLICATE
					Sample_Depth_Range	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
Indene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno[1,2,3-fg]naphthacene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indole, 5-methyl-2-(4-pyridyl)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	267
Isocil	ug/kg	100				-	-	281	-	-	-	-	-	-	-	-	296	-	-	-
isoledene	ug/kg	100				-	-	-	-	-	-	-	712	-	-	-	-	-	-	-
Longifolene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	561	-	-	-	-
Methyl dehydroabietate	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Morpholine, 4-(1-cyclohepten-1-yl)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,4,5-trimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,4,6-trimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,6,7-trimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,6-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,7-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,3,6-trimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,3-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,6-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,7-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2-ethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2-phenyl-	ug/kg	100				-	-	135	-	-	-	-	1,855	-	-	-	284	-	-	345
Naphtho[1,2-b]thiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphtho[2,1,8,7-klmn]xanthene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphtho[2,1-b]thiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Decanoic acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neocuproine	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexadecanoic Acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonadecane	ug/kg	100				-	-	-	-	-	-	-	-	1,716	-	-	-	-	-	-
n-Pentafluorosulfanyl-S,S-diphenoxysufilimine	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octadecane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octadecane, 1-iodo-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octadecanoic Acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octadecanoic acid, butyl ester	ug/kg	100				-	-	-	-	-	-	-	1,508	-	-	-	-	-	-	-
p-Cymene	ug/kg	4				<4	<4	<4	<4	<4	<4	26	45	226	16 - 1,642	<4	<4	<4	<4	<4
Perylene	ug/kg	100				-	-	-	-	-	-	-	-	-	361	492	-	-	-	-
Phenanthrene, 1-methyl-	ug/kg	100				-	-	332	248	-	-	-	-	-	-	180	507	252	484	-
Phenanthrene, 2,5-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene, 2-methyl-	ug/kg	100				-	-	217	264	-	252	-	1,527	-	-	-	428	413	409	393
Phenanthrene, 3,6-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	2,076	-	-	-	-	-	-	-
Phenanthrene, 4-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	349	-	-	-	-	-	-
Phenol, 2,6-dimethoxy-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol, 2,6-dimethoxy-4-(2-propenyl)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	727	-	-
Phenol, 2-methoxy-4-(1-propenyl)-, (Z)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	327	-	-
Pyrene, 1,3-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	704	-	-	-	-	-	-	370
Pyrene, 1-methyl-	ug/kg	100				280	-	302	-	-	-	-	3,210	585	-	-	458	331	444	438
Pyrene, 2-methyl-	ug/kg	100				-	-	-	244	-	-	-	1,688	-	-	-	-	-	-	-
Quinoxaline, 6-(3-nitrobenzylidenamino)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Retene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rubicene-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloro-o-benzoquinone	ug/kg	100				-	-	-	-	-	-	-	1,396	-	-	-	-	-	-	-
Tetracosane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetradecanoic acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Bis(methyldichlorosilyl)ethylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorovinylsilane	ug/kg	100				-	-	-	-	-	-	-	-	-	116	-	-	-	-	-
Triphenylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triphenylene, 2-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-01	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-02	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-03	ug/kg	100				-	-	-	-	-	-	2,983	696	-	927	-	-	-	-	-
GT-SVOC-TIC-04	ug/kg	100				-	-	-	-	-	-	9,410	785	-	1,613	-	-	-	-	-
GT-SVOC-TIC-05	ug/kg	100				-	-	-	-	-	-	-	-	-	-	10,624	-	-	-	-
GT-SVOC-TIC-06	ug/kg	100				-	-	-	-	-	-	7,955	-	-	825	-	-	-	-	-
GT-SVOC-TIC-07	ug/kg	100				-	-	-	-	-	-	-	-	-	-	777	-	-	-	-
GT-SVOC-TIC-08	ug/kg	100				-	-	-	-	-	-	-	-	-	812	-	-	-	-	-
GT-SVOC-TIC-09	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-10	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-11	ug/kg	100				-	-	-	-	-	-	-	-	620	-	-	-	-	-	-
GT-SVOC-TIC-12	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-13	ug/kg	100				-	-	-	-	-	-	-	-	386	208	-	-	-	-	-
GT-SVOC-TIC-14	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-15	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	294	-	-
GT-SVOC-TIC-16	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	2,141	-	-	-
GT-SVOC-TIC-17	ug/kg	100				-	-	-	-	894	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-18	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)naphtho(1,2-d)furan	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	Location	GTCS 1-36				GTCS 1-37	GTCS 1-38	GTCS 1-39				GTCS 1-40	GTCS 1-41			
					Date	04/06/2019				04/06/2019	04/06/2019	04/06/2019				04/06/2019	04/06/2019			
					Sample Type	Normal	Field_D			Normal	Normal	Normal	Field_D			Normal	Normal	Field_D		
					Sample Area	Robinson House	Robinson House	Robinson House	Robinson House	Kensington Memorial Park	Kensington Memorial Park	West London Bowling Club	West London Bowling Club	West London Bowling Club	West London Bowling Club	West London Bowling Club	St. Quintins' Roundabout	St. Quintins' Roundabout	St. Quintins' Roundabout	St. Quintin's Roundabout
					Field ID	GTCS 1-36 PRIMARY SAMPLE	GTCS 1-36 FIELD DUPLICATE	GTCS 1-36 LAB DUPLICATE	GTCS 1-36 LAB FIELD DUPLICATE	GTCS 1-37A	GTCS 1-38A	GTCS 1-39 PRIMARY SAMPLE	GTCS 1-39 FIELD DUPLICATE	GTCS 1-39 LAB DUPLICATE	GTCS 1-39 LAB FIELD DUPLICATE	GTCS 1-40A	GTCS 1-41 PRIMARY SAMPLE	GTCS 1-41 FIELD DUPLICATE	GTCS 1-41 LAB DUPLICATE	GTCS 1-41 LAB FIELD DUPLICATE
					Sample_Depth_Range	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
PAH																				
Acenaphthene	mg/kg	0.01	510[#2]			0.07	0.07	0.11	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.1	0.11	0.11
Acenaphthylene	mg/kg	0.01	420[#2]			0.38	0.18	0.2	0.32	0.25	0.17	0.37	0.38	0.42	0.44	0.22	1.14	1.04	1.13	1.02
Anthracene	mg/kg	0.01	5,400[#2]			0.57	0.32	0.45	0.51	0.37	0.29	0.36	0.37	0.41	0.4	0.25	1.15	1.05	1.18	1.02
Benz(a)anthracene	mg/kg	0.01	11[#2]			2	1.14	1.18	1.73	1.03	1.04	1.34	1.44	1.63	1.49	0.96	4	3.95	4.14	3.69
Benzo(a) pyrene	mg/kg	0.01	2.7[#2]	*3.6*		2.81	1.47	1.43	2.22	1.22	1.1	1.66	1.71	1.76	1.86	1.12	***5.11***	***5.04***	***5.34***	***4.88***
Benzo(b)fluoranthene	mg/kg	0.01	3.3[#2]			3.58	1.94	1.88	2.94	1.77	1.47	2.22	2.32	2.35	2.38	1.54	7.02	6.83	7.21	6.65
Benzo(b)&(k)fluoranthene	mg/kg	0.01				4.97	2.69	2.61	4.08	2.46	2.04	3.08	3.22	3.26	3.31	2.14	9.75	9.49	10.02	9.24
Benzo(g,h,i)perylene	mg/kg	0.01	340[#2]			2.07	1.22	1.09	1.98	0.96	0.7	1.17	1.22	1.23	1.23	0.79	3.99	4.06	4.4	3.91
Benzo(k)fluoranthene	mg/kg	0.01	93[#2]			1.39	0.75	0.73	1.14	0.69	0.57	0.86	0.9	0.91	0.93	0.6	2.73	2.66	2.81	2.59
Chrysene	mg/kg	0.01	22[#2]			2.12	1.25	1.26	1.85	1.18	1.13	1.61	1.6	1.71	1.72	1.07	4.51	4.38	4.64	4.27
Coronene	mg/kg	0.04				0.46	0.21	0.23	0.42	0.22	0.16	0.28	0.28	0.29	0.29	0.2	1.04	0.92	0.99	1.05
Dibenz(a,h)anthracene	mg/kg	0.01	0.28[#2]			0.41	0.22	0.18	0.47	0.2	0.16	0.21	0.37	0.28	0.32	0.16	1	0.8	0.87	0.79
Fluoranthene	mg/kg	0.01	560[#2]			3.72	2.08	2.34	2.76	2.09	2.32	2.68	2.81	2.87	3.08	1.83	7.35	6.9	7.38	6.69
Fluorene	mg/kg	0.01	400[#2]			0.08	0.06	0.1	0.1	0.08	0.07	0.05	0.06	0.06	0.07	<0.04	0.17	0.14	0.15	0.15
Indeno(1,2,3-c,d)pyrene	mg/kg	0.01	36[#2]			2.08	1.14	1.03	1.75	0.91	0.7	1.13	1.22	1.27	1.22	0.84	3.93	3.97	4.18	3.81
Naphthalene	mg/kg	0.01	5.6[#2]			<0.027 - 0.15	<0.027 - 0.1	<0.027 - 0.11	<0.027 - 0.14	<0.027	<0.027	<0.027 - 0.08	<0.027 - 0.09	<0.027 - 0.09	<0.027 - 0.08	<0.027 - 0.06	<0.027 - 0.23	<0.027 - 0.2	<0.027 - 0.23	<0.027 - 0.23
Phenanthrene	mg/kg	0.01	220[#2]			1.22	0.88	1.24	1.08	0.83	1.04	0.85	0.92	0.86	1	0.65	2.44	2.17	2.31	2.03
Pyrene	mg/kg	0.01	1,200[#2]			3.4	1.9	2.05	2.58	1.76	1.86	2.39	2.52	2.63	2.7	1.61	6.31	5.95	6.43	5.78
PAH 16 Total	mg/kg	0.6				26.1	14.7	15.4	21.7	13.3	12.6	17	17.9	18.5	18.9	11.7	51.2	49.2	52.5	47.6
PAH 17 Total	mg/kg	0.64				26.51	14.93	15.61	22.11	13.56	12.78	17.26	18.21	18.77	19.21	11.9	52.24	50.16	53.5	48.67
PCB (Dutch 7) congeners																				
PCB 28	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 52	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 101	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 118	ug/kg	5	120[#1]			<5 - 0.747	<5 - 0.767	<5 - 0.708	<5 - 0.728	<5 - 0.534	<5 - 0.432	<5 - 0.56	<5 - 0.589	<5 - 0.519	<5 - 0.533	<5 - 0.548	<5 - 0.915	<5 - 0.953	<5 - 0.881	<5 - 0.839
PCB 138	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 153	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PCB 180	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total PCB 7 Congeners	ug/kg	35	200[#5]			<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
PCB (WHO12) 12 congeners																				
Tetrachlorobiphenyl, 3,3,4,4- (PCB 77)	ug/kg	Various	38[#1]			0.052	0.0665	0.0552	0.0478	0.0414	0.0362	0.052	0.048	0.0478	0.049	0.0393	0.0697	0.0737	0.0667	0.0658
Tetrachlorobiphenyl, 3,4,4,5- (PCB 81)	ug/kg	Various	12[#1]			0.00153	<0.000271	0.0019	0.00107	0.00133	0.000823	0.00345	0.00331	0.00368	0.00322	0.000963	0.00231	0.00438	0.00211	0.00365
Pentachlorobiphenyl, 2,3,3,4,4- (PCB 105)	ug/kg	Various	120[#1]			0.356	0.368	0.35	0.35	0.258	0.197	0.294	0.301	0.274	0.282	0.263	0.447	0.467	0.426	0.411
Pentachlorobiphenyl, 2,3,4,4,5- (PCB 114)	ug/kg	Various	120[#1]			0.00677	0.00859	0.00844	0.00879	0.00875	0.0044	0.00708	0.00581	0.00712	0.00714	0.00545	0.00665	0.00702	0.00377	0.00363
Pentachlorobiphenyl, 2,3',4,4',5- (PCB-118)	ug/kg	Various	120[#1]			0.747	0.767	0.708	0.728	0.534	0.432	0.56	0.589	0.519	0.533	0.548	0.915	0.953	0.881	0.839
Pentachlorobiphenyl, 2,3,4,4,5- (PCB 123)	ug/kg	Various	120[#1]			0.0174	0.0179	0.0129	0.0209	0.0181	0.00976	0.0146	0.0172	0.0139	0.0147	0.014	0.036	0.0356	0.0304	0.0239
Pentachlorobiphenyl, 3,3,4,4,5- (PCB 126)	ug/kg	Various	0.036[#1]			0.00842	<0.000529	0.0087	0.0104	0.00589	0.0091	0.0137	0.0115	0.0119	0.0117	0.00984	0.0138	0.014	0.0145	0.0144
Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 156)	ug/kg	Various	120[#1]			0.163	0.163	0.155	0.157	0.0967	0.0744	0.0958	0.0975	0.0883	0.0887	0.0919	0.197	0.203	0.19	0.183
Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 157)	ug/kg	Various	120[#1]			0.0426	0.0462	0.0406	0.0409	0.0255	0.017	0.0227	0.0235	0.0224	0.0204	0.0225	0.0456	0.047	0.0442	0.0412
Hexachlorobiphenyl, 2,3,4,4,5,5- (PCB 167)	ug/kg	Various	120[#1]			0.0719	0.0772	0.0707	0.0704	0.0449	0.0315	0.0413	0.043	0.0402	0.0395	0.0413	0.0833	0.086	0.0791	0.0759
Hexachlorobiphenyl, 3,3,4,4,5,5- (PCB 169)	ug/kg	Various	0.12[#1]			0.00152	<0.000245	<0.000127	0.00192	0.000305	0.000701	0.00245	0.00169	0.00129	0.00264	0.00255	0.00236	0.000699	0.0026	<0.000243
Heptachlorobiphenyl, 2,3,3,4,4,5,5- (PCB 189)	ug/kg	Various	130[#1]			0.0195	0.0199	0.0192	0.0192	0.0109	0.00786	0.0098	0.00978	0.0088	0.00923	0.00929	0.0215	0.0228	0.0203	0.0194
Chlorinated Dioxins and Furans																				
2378-TCDF	ng/kg	Various				7.1	<0.685	7.25	5.89	2.13	5.92	6.88	7.37	11.3	8.6	8.5	11.8	8.02	12.8	10.2
12378-PeCDD	ng/kg	Various				<0.503	<0.642	1.7	1.08	<0.486	2.31	2.03	2.33	2.18	1.63	1.62	<0.746	3.63	1.89	4.12
123478-HxCDD	ng/kg	Various				1.4	<0.467	2.35	1.73	1.08	1.42	2.66	1.61	3.25	2.19	2.37	3.12	1.89	2.07	2.5
123678-HxCDD	ng/kg	Various				3.85	6.99	3.28	4.39	4.38	2.96	6.8	6.34	6.05	6.72	6.7	8.41	7.29	7.88	8.22
123789 HxCDD	ng/kg	Various				2.27	<0.519	2.25	3.08	<0.586	2.09	<0.649	4.57	4.84	4.05	4.46	6.35	5.02	5.03	4.89
1234678-HpCDD	ng/kg	Various				75.4	84.2	75.1	61.8	117	35.5	76.4	75	81.5	77.6	134	84.8	78.7	78.6	68.1
OCDD	ng/kg	Various				579	580	587	450	941	116	563	544	578	567	981	397	413	377	367
OCDF	ng/kg	Various				31	35.8	26.3	24	48.1	11.8	33.8	31.1	36.9	34.2	50.2	62	53.8	57.8	54.2
2378-TCDD	ng/kg	Various				<0.344	<0.291	<0.373	<0.274	<0.252	<0.43	<0.646	<0.444	<0.545	<0.427	<0.288	<0.644	0.99	<0.457	<0.461
12378-PeCDF	ng/kg	Various				2.84	6.81	<0.405	3.69	<0.354	0.865	5.98	7.17	6.47	4.6	3.67	6.87	6.87	7.24	7.53
23478-PeCDF	ng/kg	Various				5.68	8.54	5.31	5.64	2.68	4.42	6.84	8.86	7.4	8	6.25	13	11.2	12.1	10.4
123478-HxCDF	ng/kg	Various				5.36	7.9	5.69	4.68	2.79	3.95	6.53	7.13	7.22	6.2	5.96	11.9	10.2	9.48	6.41
123678-HxCDF	ng/kg	Various				4.09	6.51	3.56	3.88	2.25	4.13	6.21	6.08	3.21	4.78	1.41	9.9	8.35	9.02	7.47
234678-HxCDF	ng/kg	Various				4.96	7.51	4.1	4.45	2.59	2.77	5.62	5.84	5.46	5.68	5.48	10.4	10	8.61	7.41
123789-HxCDF	ng/kg	Various				<0.313	<0.337	<0.4	0.98	<0.332	<0.338	<0.362	0.909	0.395	0.684	0.655	<0.378	0.756	<0.442	0.577
1234678-HpCDF	ng/kg	Various				36.3	60.5	33.4	29.8	28.7	19.3	31.4	30.8	31.8	30.2	38.4	55.6	50.6	56.8	49.2
1234789-HpCDF	ng/kg	Various				1.64	<0.276	1.94	1.91	1.23	1.26	2.18	2.69	1.64	1.82	0.723	3.08	2.3	3.49	2.86
Brominated Dioxins and Furans																				
2378-TBDD	ng/kg	Various				<0.49	0.42	<0.46	<0.45	<0.46	<0.47	<0.64	<0.66	<0.66	<0.69	<0.82	<0.47	<0.5	<0.47	<0.51
12378-PBDD	ng/kg	Various				<0.47	<0.426	<0.48	<0.5	<0.5	<0.5	<0.6	<0.69	<0.65	<0.72	<0.79	<0.5	<0.47	<0.5	<0.47
123478-HxBDD	ng/kg	Various				<0.5	<0.55	<0.54	<0.54	<0.54	<0.53	<0.59	<0.64	<0.58	<0.65	<0.79	<0.55	<0.59	<0.55	<0.62
123678-HxBDD	ng/kg	Various				<0.52	<0.45	<0.47	<0.49	<0.5	<0.44	<0.62	<0.62	<0.6	<0.62	<0.84	<0.49	<0.48	<0.46	<0.54
123789-HxBDD	ng/kg	Various				<0.51	<0.49	<0.49	<0.45	<0.46	<0.48	<0.58	<0.68	<0.57	<0.7	<0.78	<0.51	<0.55	<0.52	<0.49
1234678-HpBDD	ng/kg	Various				0.59	<0.55	<0.58	<0.59	<0.52	<0.55	<0.63	<0.7	<0.62	<0.73	<0.8	0.88	<0.58	<0.6	<0.66
OBDD	ng/kg	Various				<0.79	<0.83	<0.86	<0.85	<0.8	<0.8	<0.8	<0.82	<0.78	<0.8	<0.8	<0.8	<0.79	<0.8	<0.83
2378-TBDF	ng/kg	Various				3.39	4.91	2.62	2.33	3.78	2.25	2.29	3.42	3.81	2.86	2.48	5.92	4.98	6.09	4.4
12378-PBDF	ng/kg	Various				1.95	2.77	1.84	1.61	2	1.24	2.08	2.14	2.47	2.4	1.99	3.29	3.66	3.81	3.31
23478-PBDF	ng/kg	Various				1.6	1.65	0.85	0.88	1.35	0.71	1.14	1.19	1.34	1.04	1.03	2.01	2.46	2.13	2.87
123478-HxBDF	ng/kg	Various				0.89	0.94	0.66	0.55	0.88	0.55	<0.66	0.78	0.7	0.66	0.82	1.48	2.03	1.79	2.66
123678-HxBDF	ng/kg	Various				0.67	0.75	0.6	0.63	0.79	0.49	0.71	1.03	0.91	1.4	0.79	1.49	1.89	1.6	2.06
234678-HxBDF	ng/kg	Various				0.48	0.44	0.44	<0.39	0.47	<0.48	0.8	0.9	0.72	1.25	<0.75	0.77	<0.45	<0.42	1.44
123789-HxBDF	ng/kg	Various				0.37	<0.5	<0.55	<0.5	<0.52	<0.5	<0.59	<0.64	<0.6	<0.67	<0.82	<0.5	<0.52	<0.5	<0.5
1234678-HpBDF	ng/kg	Various				0.51	<0.39	<0.46	<0.4	<0.38	<0.39	<0.55	<0.63	<0.59	<0.69	<0.83	<0.41	<0.46	<0.42	<0.49
1234789-HpBDF	ng/kg	Various				<0.5	<0.47	<0.46	<0.46	<0.45	<0.47	<0.68	<0.69	<0.64	<0.7	<0.74	<0.48	<0.56	<0.49	<0.6
OBDF	ng/kg	Various				<0.61	<0.59	<0.53	<0.59	<0.59	<0.53	<0.74	<0.8	<0.78	<0.78	<0.85	<0.55	<0.6	<0.55	<0.58
Organophosphorous flame retardants																				
Triphenylphosphate	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tris(1-chloro-2-propyl)phosphate	mg/kg	Various	630[#1]			<0.15	<0.15	<0.15	<0.15	<0.8	<0.1	<0.15	<0.15	<0.15	<0.15	<0.15	<0.5	<0.2	<0.2	<0.2
Tris(2-ethylhexyl) phosphate	mg/kg	0.1	170[#1]			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	Location	GTCS 1-36				GTCS 1-37	GTCS 1-38	GTCS 1-39				GTCS 1-40	GTCS 1-41			
					Date	04/06/2019				04/06/2019	04/06/2019	04/06/2019				04/06/2019	04/06/2019			
					Sample Type	Normal	Field_D			Normal	Normal	Normal	Field_D			Normal	Normal	Field_D		
					Sample Area	Robinson House	Robinson House	Robinson House	Robinson House	Kensington Memorial Park	Kensington Memorial Park	West London Bowling Club	West London Bowling Club	West London Bowling Club	West London Bowling Club	West London Bowling Club	St. Quintins' Roundabout	St. Quintins' Roundabout	St. Quintins' Roundabout	St. Quintin's Roundabout
					Field ID	GTCS 1-36 PRIMARY SAMPLE	GTCS 1-36 FIELD DUPLICATE	GTCS 1-36 LAB DUPLICATE	GTCS 1-36 LAB FIELD DUPLICATE	GTCS 1-37A	GTCS 1-38A	GTCS 1-39 PRIMARY SAMPLE	GTCS 1-39 FIELD DUPLICATE	GTCS 1-39 LAB DUPLICATE	GTCS 1-39 LAB FIELD DUPLICATE	GTCS 1-40A	GTCS 1-41 PRIMARY SAMPLE	GTCS 1-41 FIELD DUPLICATE	GTCS 1-41 LAB DUPLICATE	GTCS 1-41 LAB FIELD DUPLICATE
					Sample_Depth_Range	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
Brominated flame retardents (PBDEs)																				
2,2'',4-tribromodiphenyl ether (BDE-17)	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,4''-tribromodiphenyl ether (BDE-28)	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2'',4,4''-tetrabromodiphenyl ether (BDE-47)	mg/kg	0.1	6.3[#1]			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,3'',4,4''-tetrabromodiphenyl ether (BDE-66)	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2'',3,4,4''-pentabromodiphenyl ether (BDE-85	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2'',4,4'',5-pentabromodiphenyl ether (BDE-99	mg/kg	0.1	6.3[#1]			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2'',4,4'',6-pentabromodiphenyl ether (BDE-10	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2'',3,4,4'',5''-hexabromodiphenyl ether(BDE-1	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2'',4,4'',5,5''-hexabromodiphenyl ether(BDE-1	mg/kg	0.1	13[#1]			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2'',4,4'',5,6''-hexabromodiphenyl ether(BDE-1	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2,3,4,4,5,6-heptabromodiphenyl ether (BDE-1	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polybrominated biphenyls (PBBs)																				
2,2-dibromobiphenyl (PBB 4)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4,4-dibromobiphenyl (PBB 15)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,2,5-tribromobiphenyl (PBB 18)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
tetrabromobiphenyl (3,3,5,5-) (PBB 80)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexabromobiphenyl (PBB 153)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrabromobisphenol A																				
tetrabromobisphenol A	mg/kg	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexabromocyclododecane (HBCDD)																				
Hexabromocyclododecane (HBCDD)	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isocyanates																				
Isocyanic Acid	ug/kg	250				<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Methyl Isocyanate	ug/kg	250	4.600[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Ethyl Isocyanate	ug/kg	250				<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Propyl Isocyanate	ug/kg	250				<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Phenyl Isocyanate	ug/kg	250				<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Hexamethylene diisocyanate	ug/kg	250	3.100[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
2,4-Toluene diisocyanate	ug/kg	250	6.400[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
2,6-Toluene diisocyanate	ug/kg	250	5.300[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Isophorone Diisocyanate	ug/kg	500				<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500
4,4-Methylene-bis(phenyl-isocyanate)	ug/kg	250	850.000.000[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Cyanides																				
Cyanide (Free)	mg/kg	0.5	20[#5]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide Total	mg/kg	0.5	78[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	0.7	0.7	0.7	0.9	1	0.8	0.8	0.8
Thiocyanate	mg/kg	0.6	20[#5]			0.9	1	1	0.8	4.1	1.7	1.3	1.5	1.4	1.5	2.2	2.5	2.8	2.6	2.5
Asbestos																				
General Description (Bulk Analysis)	None					soil-stones	soil.stones	soil.stones	soil.stones	soil.stones	soil.stones	soil-stones	soil-stones	soil-stones	soil-stones	soil-stones	soil.stones	soil.stones	soil.stones	soil.stones
Asbestos Fibres	None					Fibre Bundles	NAD	Fibre Bundles	NAD	NAD	NAD	Fibre Bundles	Fibre Bundles	NAD	Fibre Bundles	NAD	NAD	NAD	NAD	NAD
Asbestos ACM	None					NAD	ACM Debris	NAD	NAD	NAD	NAD	ACM Debris	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Asbestos Type	None					Amosite	Chrysotile	Amosite	NAD	NAD	NAD	Chrysotile	Chrysotile	NAD	Chrysotile	NAD	NAD	NAD	NAD	NAD
Asbestos Level Screen						less than 0.1%	less than 0.1%	less than 0.1%	NAD	NAD	NAD	determined from Scree	less than 0.1%	NAD	less than 0.1%	NAD	NAD	NAD	NAD	NAD
Potentially Respirable Fibres per gram	f/g	0				0	0	0	-	-	-	0	0	-	0	-	-	-	-	-
SVF / MMMF																				
Synthetic/MMMF	None					Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
Asbestos Quantification																				
Asbestos Gravimetric & PCOM Total	mass %	0.001				<0.001	0.001	<0.001	-	-	-	<0.001	<0.001	-	<0.001	-	-	-	-	-
Asbestos PCOM Quantification (Fibres)	mass %	0.001				<0.001	<0.001	<0.001	-	-	-	<0.001	<0.001	-	<0.001	-	-	-	-	-
Total ACM Gravimetric Quantification (% Asb)	mass %	0.001				<0.001	<0.001	<0.001	-	-	-	<0.001	<0.001	-	<0.001	-	-	-	-	-
Total Detailed Gravimetric Quantification (% As	mass %	0.001				<0.001	0.001	<0.001	-	-	-	<0.001	<0.001	-	<0.001	-	-	-	-	-
Asbestos Quantification - Total - %	mass %	0.001				<0.001	0.001	<0.001	-	-	-	<0.001	<0.001	-	<0.001	-	-	-	-	-
Total Organic Carbon																				
TOC	percent	0.02				3.87	4.56	3.59	5.01	11.73	5.83	6.38	6.94	7.45	6.67	7.05	7.01	6.64	6.58	7.17
Inorganics																				
pH (Lab)	pH units	0.01				7.63	7.71	7.74	7.74	7.36	6.67	7.43	7.42	7.44	7.4	7.37	6.59	6.39	6.64	6.39
Other																				
Natural Moisture Content	percent	0.1				9.7	11	10.6	8.8	20	32.7	16.1	15	14.8	14.9	16.7	19.5	19.8	19	20.9
ESdat Calculated																				
Cresols Total	ug/kg	20	180[#3]			<20	<20	<20	<20	136	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Benzo(a)pyrene (surrogate marker for PAH mi	mg/kg	0.01	5.0[#6]			2.81	1.47	1.43	2.22	1.22	1.1	1.66	1.71	1.76	1.86	1.12	5.11	5.04	5.34	4.88
Xylene Total	ug/kg	8	130.000[#2]			<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Trichlorobenzene (total)	ug/kg	14	2200[#5]			<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
AECOM Calculated																				
Sum of PCDD/F +PCB12	ng/kg	Various	8700[#4]			2265	2360	2204	2076	2217	1048	1890	1911	1844	1843	2316	2547	2608	2433	2316
PCDD/F+PBDD/F+PCB12 Hazard Index	-	-	1			0.08				0.06	0.08	0.12				0.11	0.15			
WHO2005 TEQ (PCDD/F + PBDD/F + PCB)	ng/kg	Various				8.073	9.041	9.088	8.675	5.781	8.122	11.275	12.718	12.454	11.621	11.071	15.053	18.016	16.032	17.073

Comments
#1 USEPA RSL (May 2019)
#2 LQM/CIEH S4ULs 2015
#3 EIC/AGS/CL:AIRE 2010
#4 EA SGV 2009
#5 Dutch IV 2013
#6 Defra C4SL 2014
#7 AECOM (modified EIC GAC to include plant uptake route)
GSC based on residential (with private gardens) land use scenario
2.5% soil organic matter content selected for GSC #2 and #3
(blank): No assessment criteria available
-: Not analysed
Field_D: Field Duplicate
NAD: No Asbestos Detected

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	Location	GTCS 1-42	GTCS 1-43		GTCS 1-44		GTCS 1-45		GTCS 1-46		GTCS 1-47		GTCS 1-48		GTCS 1-49	
					Date	04/06/2019	05/06/2019		05/06/2019		05/06/2019		05/06/2019	05/06/2019	05/06/2019		05/06/2019		05/06/2019	
					Sample Type	Normal	Normal		Normal		Normal		Normal	Normal	Normal		Normal		Normal	
					Sample Area	St. Quintin's Roundabout	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square
					Field ID	GTCS 1-42A	GTCS 1-43A		GTCS 1-44A		GTCS 1-45A		GTCS 1-46A	GTCS 1-46A	GTCS 1-47A		GTCS 1-48A		GTCS 1-49A	
					Sample_Depth_Range	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0-0.05	0.1-0.15	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05
Metals																				
Aluminium	mg/kg	50	77,000[#1]			19,870	18,370 - 19,986	12,090 - 16,479	26,240	12,470	5,096	11,600	15,790	14,510 - 15,350	7,847	7,261 - 9,007	12,170	12,790	10,730 - 11,696	10,160 - 12,335
Arsenic	mg/kg	0.5	37[#6]	***32***		24.3	***36.6 - 40.6***	22.8 - 27.1	12.8	13.3	6.7	16	26.2	***35.5 - 36.6***	13.6	13 - 13.2	12.5	15.3	17.4 - 19.4	16.6 - 18.9
Barium	mg/kg	1	460[#7]			266	455 - 537	249 - 291	158	179	77	172	289	339 - 376	181	133 - 148	189	172	182 - 209	165 - 188
Beryllium	mg/kg	0.5	1.7[#2]			1.9	2 - 2.2	1.3 - 1.6	2	1.2	0.6	1.1	1.5	1.9 - 2	0.9	0.8 - 0.9	1.3	1.4	1.3	1.2 - 1.5
Boron	mg/kg	0.1	290[#2]			2.4	1.6	2.1 - 2.6	1	2.3	0.9	2	4.3	3.1 - 3.2	4.6	6.6 - 8	1.8	4.4	1.5 - 1.7	1.8 - 2
Cadmium	mg/kg	0.1	22[#6]	***2.1***		1	***44.1 - 46.2***	***11.3 - 14.5***	1.2	1.8	0.4	0.8	***15.8***	***42.7 - 46.8***	0.7	0.8	***3.7***	***3.3***	0.9 - 1.1	1 - 1.1
Chromium (Trivalent)	mg/kg	0.5	910[#2]			101.7	232.2 - 271.4	78.2 - 98.3	76.6	104.5	240.5	72.1	176.8	208.7 - 212.1	88.2	22.3 - 23.8	101.1	58.4	33.3	32 - 36.9
Chromium (hexavalent)	mg/kg	0.3	21[#6]			<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium (III+VI)	mg/kg	0.5	Use either CrIII or CrVI[#2]			101.7	232.2 - 271.4	78.2 - 98.3	76.6	104.5	240.5	72.1	176.8	208.7 - 212.1	88.2	22.3 - 23.8	101.1	58.4	33.3	32 - 36.9
Copper	mg/kg	1	2,400[#2]	***190***		91	***474 - 487***	***166 - 215***	65	67	26	58	***199***	***392 - 400***	45	55 - 56	64	64	82 - 83	70 - 105
Lead	mg/kg	5	200[#6]	***820***		517	637 - 757	553 - 603	111	232	115	318	578	441 - 448	385	215 - 257	176	137	298 - 429	250 - 298
Mercury	mg/kg	0.1	40[#2]	***1.9***		0.9	1.4 - 1.8	1.1 - 1.2	0.3	0.6	0.3	0.9	0.8	0.9 - 1.6	0.5	0.3 - 0.6	1.8	1.3	0.2 - 1.1	0.4 - 1.2
Nickel	mg/kg	0.7	130[#2]	***42***		33.8	***95.4 - 103.4***	***38.5 - 49***	***52.1***	26.3	16.6	24.5	***46.5***	***80.4 - 82.1***	18.6	17 - 17.5	23.2	23.1	27.5 - 29.3	24.5 - 32
Selenium	mg/kg	1	250[#2]			3	2	2	2	2	1	1	2	2 - 3	2	1	2	2	1	1
Vanadium	mg/kg	1	410[#2]			80	86 - 95	53 - 67	94	49	30	53	62	73 - 75	37	35 - 38	48	49	52 - 55	49 - 57
Zinc	mg/kg	5	3,700[#2]			365	1,111 - 1,283	471 - 610	142	233	104	231	545	951 - 962	201	188 - 211	250	253	1,359 - 1,418	1,344 - 1,357
VOCs																				
1,1,1,2-tetrachloroethane	ug/kg	5	2,800[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-trichloroethane	ug/kg	5	18,000[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,2,2-tetrachloroethane	ug/kg	3	3,400[#2]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1,2-trichloroethane	ug/kg	4	1,200[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,1-dichloroethane	ug/kg	6	1,200[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
1,1-dichloroethene	ug/kg	6	3,900[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
1,1-dichloropropene	ug/kg	3				<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2,3-trichlorobenzene	ug/kg	7	3,600[#2]			<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
1,2,3-trichloropropane	ug/kg	4	5.1[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,2,4-trimethylbenzene	ug/kg	6	850[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
1,2-dibromo-3-chloropropane	ug/kg	4	5.3[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,2-dibromoethane	ug/kg	3	36[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2-dichloroethane	ug/kg	5	11[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-dichloropropane	ug/kg	4	42[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,3,5-trimethylbenzene	ug/kg	3	270,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,3-dichloropropane	ug/kg	4	1,600,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
2,2-dichloropropane	ug/kg	4				<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
2-chlorotoluene	ug/kg	3	1,600,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
4-chlorotoluene	ug/kg	3	1,600,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Benzene	ug/kg	5	870[#6]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromobenzene	ug/kg	2	2,000[#3]			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Bromochloromethane	ug/kg	4	150,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromodichloromethane	ug/kg	4	290[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromoform	ug/kg	4	5,900[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	ug/kg	1	6,800[#1]			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3-Methyl butanal	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/kg	4	56[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chlorobenzene	ug/kg	4	1,000[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chlorodibromomethane	ug/kg	5	8,300[#1]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	ug/kg	6	11,000[#3]			<6	<6	<6	<6	<6	<6	<6	<6	8	<6	<6	<6	<6	<6	<6
Chloroform	ug/kg	5	1,700[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloromethane	ug/kg	3	9.8[#3]			7	6	10	<3	10	<3	13	12	16	5	14	<3	10	<3	6
cis-1,2-dichloroethene	ug/kg	7	190[#3]			<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
cis-1,3-dichloropropene	ug/kg	4				<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromomethane	ug/kg	4	24,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dichlorodifluoromethane	ug/kg	2	87,000[#1]			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloromethane	ug/kg	30	980[#3]			<30	<30	<30	<30	<30	<30	<30	<30	72	<30	<30	<30	<30	<30	<30
Ethylbenzene	ug/kg	3	110,000[#2]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Eucalyptol	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	ug/kg	3	27,000[#3]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Methyl Methacrylate	ug/kg	100	4,400,000[#1]			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MTBE	ug/kg	6	84,000[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
n-butylbenzene	ug/kg	4	3,900,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
n-propylbenzene	ug/kg	4	82,000[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
sec-butylbenzene	ug/kg	4	7,800,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/kg	3	19,000[#3]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
tert-butylbenzene	ug/kg	5	7,800,000[#1]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethene	ug/kg	3	390[#2]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Toluene	ug/kg	3	290,000[#2]			<3	9	<3	<3	<3	<3	<3	<3	6	<3	<3	<3	<3	<3	<3
trans-1,2-dichloroethene	ug/kg	3	340[#3]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
trans-1,3-dichloropropene	ug/kg	3				<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Trichloroethene	ug/kg	5	34[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichlorofluoromethane	ug/kg	3	23,000,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Undecane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene (m & p)	ug/kg	4				<4	12	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Xylene (o)	ug/kg	4	140,000[#2]			<4	6	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vinyl chloride	ug/kg	2	0.87[#2]			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
VOC TICs	None					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trihalomethanes	ug/kg					<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration															
Location					GTCS 1-42	GTCS 1-43		GTCS 1-44		GTCS 1-45		GTCS 1-46		GTCS 1-47		GTCS 1-48		GTCS 1-49	
Date					04/06/2019	05/06/2019		05/06/2019		05/06/2019		05/06/2019	05/06/2019	05/06/2019		05/06/2019		05/06/2019	
Sample Type					Normal	Normal		Normal		Normal		Normal	Normal	Normal		Normal		Normal	
Sample Area					St. Quintin's Roundabout	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square
Field ID					GTCS 1-42A	GTCS 1-43A		GTCS 1-44A		GTCS 1-45A		GTCS 1-46A	GTCS 1-46A	GTCS 1-47A		GTCS 1-48A		GTCS 1-49A	
Sample_Depth_Range					0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0-0.05	0.1-0.15	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05
SVOCs																			
Dibenzo[a,e]pyrene	ug/kg	100	42[#1]		-	-	-	-	-	-	-	-	-	-	-	-	6,277	-	-
2-methylnaphthalene	ug/kg	10	240,000[#1]		107	232	98	36	82	55	57	86	194	167 - 266	1,425	49	25	88	53
4-bromophenyl phenyl ether	ug/kg	10			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-chlorophenyl phenyl ether	ug/kg	10			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Azobenzene	ug/kg	10	5,600[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bis(2-chloroethoxy) methane	ug/kg	10	190,000[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bis(2-chloroethyl)ether	ug/kg	10	230[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbazole	ug/kg	10			366	636	167	128	76	92	71	202	604	131	3,290	70	75	141	81
Dibenzofuran	ug/kg	10	73,000[#1]		67	249	77	51	36	50	40	96	230	93	3,082	36	26	79	48
Hexachlorobutadiene	ug/kg	4	700[#2]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hexachlorocyclopentadiene	ug/kg	10	1,800[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexachloroethane	ug/kg	10	480[#3]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Anilines																			
2-nitroaniline	ug/kg	10	630,000[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3-nitroaniline	ug/kg	10			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-chloroaniline	ug/kg	10	2,700[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-nitroaniline	ug/kg	10	27,000[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Amino Aliphatics																			
N-nitrosodi-n-propylamine	ug/kg	10	78[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Explosives																			
2,4-Dinitrotoluene	ug/kg	10	3,200[#3]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,6-dinitrotoluene	ug/kg	10	1,700[#3]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nitrobenzene	ug/kg	10	5,100[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Phenolics																			
2,4-dimethylphenol	ug/kg	10	43,000[#3]		20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-chloronaphthalene	ug/kg	10	9,200[#3]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-methylphenol	ug/kg	10	Use Cresols Total[#3]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	67	<10	<10	<10	<10
2-nitrophenol	ug/kg	10			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-chloro-3-methylphenol	ug/kg	10	6,300,000[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-methylphenol	ug/kg	10	Use Cresols Total[#3]		<10	76	<10	<10	<10	<10	<10	<10	<10	<10	246	<10	<10	<10	<10
4-nitrophenol	ug/kg	10			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phenol	ug/kg	10	200,000[#2]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	310	<10	<10	<10	<10
SVOC - Halogenated Phenols																			
2,4,5-trichlorophenol	ug/kg	10	6,300,000[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4,6-trichlorophenol	ug/kg	10	49,000[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4-dichlorophenol	ug/kg	10	190,000[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-chlorophenol	ug/kg	10	390,000[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Pentachlorophenol	ug/kg	10	520[#2]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Halogenated Benzenes																			
1,2,4-trichlorobenzene	ug/kg	7	6,400[#2]		<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
1,2-dichlorobenzene	ug/kg	4	55,000[#2]		<4	<4 - 22	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,3-dichlorobenzene	ug/kg	4	1,000[#2]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,4-dichlorobenzene	ug/kg	4	150,000[#2]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hexachlorobenzene	ug/kg	10	3,300[#2]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Phthalates																			
Bis(2-ethylhexyl) phthalate	ug/kg	100	610,000[#3]		924	516	1,002	140	611	221	911	1,013	619	206	355	551	1,001	202	443
Butyl benzyl phthalate	ug/kg	100	3,300,000[#3]		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Diethylphthalate	ug/kg	100	260,000[#3]		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Dimethyl phthalate	ug/kg	100	16,400[#5]		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Di-n-butyl phthalate	ug/kg	100	31,000[#3]		152	1,520	698	<100	<100	<100	<100	822	2,226	<100	<100	980	617	<100	<100
Di-n-octyl phthalate	ug/kg	100	2,800,000[#3]		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SVOC - Solvents																			
Isophorone	ug/kg	10	570,000[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC TIC																			
SVOC TICs	None				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.alpha.-Phellandrene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.alpha.-Pinene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.beta.-Guaiene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
[1,1-Biphenyl]-4-carboxaldehyde	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1(2Aminobenzylidene)1234-tetrahydroacridineN	ug/kg	100			-	-	-	1,994	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl, 2,3,3,4-tetrachloro-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl, 2,3,3,5-tetrachloro-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl, 2,3,4,6-tetrachloro-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-die	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,9,10-Dibenzopyrene	ug/kg	100			-	-	-	27,925	-	-	-	-	-	-	-	-	-	-	-
1,5,5-Trimethyl-6-methylene-cyclohexene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,6-Dimethylphenazine	ug/kg	100			-	-	-	885	-	-	-	-	-	-	-	-	-	-	-
10,18-Bisnorabieta-5,7,9(10),11,13-pentaene	ug/kg	100			-	-	-	-	1,968	-	-	-	-	-	-	-	-	-	-
10,18-Bisnorabieta-8,11,13-triene	ug/kg	100			-	-	-	-	3,492	-	-	-	-	-	-	-	-	-	-
10s,11s-Himachala-3(12),4-diene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11H-Benzo[a]carbazole	ug/kg	100			-	9,597	-	-	-	224	-	-	-	200	4,085	-	-	199	-
11H-Benzo[a]fluoren-11-one	ug/kg	100			755	7,792	146	1,819	-	302	-	417	1,249	328	4,093	-	-	451	-
11H-Benzo[a]fluoren-11-one, 10-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	1,544	-	-	-	-
11H-Benzo[a]fluorene	ug/kg	100			-	-	-	-	-	-	-	-	-	1,115	-	-	-	-	-
11H-Benzo(b)fluorene	ug/kg	100			1,078	-	632	-	-	337	-	-	-	-	-	-	353	594	-
11H-Indeno(1,2-b)quinoline	ug/kg	100			-	-	-	2,706	-	-	-	-	-	-	-	-	-	-	-
13-Docosenamide, (Z)-	ug/kg	100			-	-	-	-	-	1,273	-	-	-	-	-	-	-	-	-
13-Isopropylpodocarpen-12-ol-20-al	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Cyclopropa[l]phenanthrene,1a,9b-dihydro-	ug/kg	100			-	-	-	-	-	-	-	-	944	-	1,760	-	-	-	-
1H-Inden-1-one, 2,3-dihydro-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methyldibenzothiophene	ug/kg	100			-	-	-	-	-	-	-	-	1,290	-	-	-	-	-	-
1-Naphthalenecarboxylic acid, 2-benzoyl-	ug/kg	100			-	14,484	-	-	-	-	-	-	-	-	-	-	-	-	-
2-(2H-Benzotriazol-2-yl)-5-methylphenol	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-(Acetoxymethyl)-3-(methoxycarbonyl)bipheny	ug/kg	100			-	7,465	-	-	-	-	-	-	-	-	-	-	-	-	-

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	Location	GTCS 1-42	GTCS 1-43		GTCS 1-44		GTCS 1-45		GTCS 1-46		GTCS 1-47		GTCS 1-48		GTCS 1-49	
					Date	04/06/2019	05/06/2019		05/06/2019		05/06/2019		05/06/2019	05/06/2019	05/06/2019		05/06/2019		05/06/2019	
					Sample Type	Normal	Normal		Normal		Normal		Normal	Normal	Normal		Normal		Normal	
					Sample Area	St. Quintin's Roundabout	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square
					Field ID	GTCS 1-42A	GTCS 1-43A		GTCS 1-44A		GTCS 1-45A		GTCS 1-46A	GTCS 1-46A	GTCS 1-47A		GTCS 1-48A		GTCS 1-49A	
					Sample_Depth_Range	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0-0.05	0.1-0.15	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05
2,3,3,,5,6-Pentachloro-1,1-biphenyl	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,3,6-Tetrachloro-1,1-biphenyl	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6-Tetrachloro-1,1-biphenyl	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Cycloheptatrien-1-one, 2-phenyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	1,122	-	-	-	-
2,6-Dimethyldibenzothiophene	ug/kg	100				-	1,791	-	-	-	-	-	-	-	-	-	-	-	-	-
2,9-Dimethyl-2,3,4,5,6,7hexahydro-1H-2-benza	ug/kg	100				-	4,203	-	-	-	-	-	-	866	-	-	1,046	-	-	-
2-Bromo-4,5-dimethoxycinnamic acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2Chloro2methyl1oxa2sila-1,2-dihydronaphthale	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylchrysene	ug/kg	100				-	15,129	-	5,119	-	-	-	-	-	930	-	-	-	-	-
2-Propenal, 3-(4-hydroxy-3-methoxyphenyl)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3-Dimethylbiphenyl	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,4:8,9-Dibenzopyrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	1,671	-	-
3,4-Dichlorobenzonitrile	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,5-Dimethoxy-4-hydroxycinnamaldehyde	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Bromo-5-ethoxy-4-hydroxybenzaldehyde	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	2,959	-	-	-
4,4-Bis(tetrahydrothiopyran)	ug/kg	100				229	-	-	-	-	-	267	-	618	-	546	-	-	-	190
4H-Cyclopenta[def]phenanthrene	ug/kg	100				-	-	-	-	-	-	-	734	-	-	-	-	-	-	-
6H-Benz[de]anthracen-6-one	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7H-Benz(de)anthracen-7-one	ug/kg	100				-	-	-	-	-	-	-	-	-	-	2,001	-	-	-	-
8,9-Dihydro-7H-cyclopenta[a]pyrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9,10-Anthracenedione	ug/kg	100	14,000[#1]			-	6,326	-	-	-	118	-	372	1,381	313	1,864	-	-	-	-
9,10-Anthracenedione, 2-methyl-	ug/kg	100				-	3,572	-	-	-	-	-	-	1,430	-	-	-	-	-	-
9,10-Bis(bromomethyl)anthracene	ug/kg	100				-	-	-	1,138	-	-	-	-	-	-	-	-	-	-	-
9,10-Dimethylanthracene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9-Anthracenecarbonitrile	ug/kg	100				-	-	-	-	-	-	-	-	-	251	-	-	-	-	-
9H-Cyclopenta[a]pyrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluoren-9-ol	ug/kg	100				-	1,577	-	-	-	-	-	-	-	-	730	-	-	-	-
9H-Fluoren-9-one	ug/kg	100				-	-	-	-	-	-	-	-	-	213	1,634	-	-	292	-
9H-Fluorene, 1-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluorene, 2-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	203	-	-	-	-	-
9H-Fluorene, 9-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Abietic acid	ug/kg	100				-	-	-	-	8,872	-	-	-	-	-	-	-	-	-	-
Alloaromadendrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthra(1,2-b)thiophene	ug/kg	100				-	-	-	-	-	542	-	-	-	512	-	-	-	-	-
Anthra(2,3-b)thiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	440	-
Anthracene, 1-methyl-	ug/kg	100				279	8,921	-	-	-	-	159	-	-	-	-	2,064	-	-	-
Anthracene, 2-ethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	177	-	-	-	-	-
Anthracene, 2-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	1,128	-	282	-
Aromandendrene	ug/kg	100				-	-	-	-	1,425	-	-	-	-	-	-	-	-	-	-
Benz(A)anthracene-7,12-dione	ug/kg	100				-	-	-	-	-	-	-	-	-	-	921	-	-	-	-
Benz(a)anthracene-7-carbonitrile	ug/kg	100				-	-	-	-	-	-	-	-	-	-	1,671	-	-	-	-
Benz[a]anthracene, 12-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz[a]anthracene, 1-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	966	-
Benz[a]anthracene, 7-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz[j]aceanthrylene, 3-methyl-	ug/kg	100				-	6,337	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde, 4-hydroxy-3,5-dimethoxy-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzenamine, 2,4,6-tribromo-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, (4,5,5-trimethyl-1,3-cyclopentadien-1	ug/kg	100				-	1,135	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Sulfonylbis (4-chlorobenzene)	ug/kg	100	51,000[#1]			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzenesulfonamide, 4-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]naphtho[1,2-d]furan	ug/kg	100				-	-	-	-	-	-	-	-	-	-	1,400	-	-	-	-
Benzo(c)carbazole	ug/kg	100				-	-	-	-	-	-	-	-	1,178	-	-	-	-	-	-
Benzo[b]naphtho[1,2-d]thiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]naphtho[2,1-d]thiophene	ug/kg	100				765	9,542	-	2,821	-	-	236	690	2,396	-	3,939	2,276	-	-	-
Benzo[b]naphtho[2,3-d]furan	ug/kg	100				396	6,475	235	1,194	-	207	144	-	1,649	386	2,865	860	-	-	-
Benzo[b]naphtho[2,3-d]thiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	476	-
Benzo[b]triphenylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	2,785	-	-	-	-
Benzo[c]cinnoline	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[c]phenanthrene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	2,561	-	-	-	-
Benzo(e)pyrene	ug/kg	100				2,286	30,260	-	16,972	-	2,136	-	3,012	17,873	3,091	6,399	8,828	-	2,311	-
Benzo[ghi]fluoranthene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[h]quinoline, 2,4-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	1,220	-	-	-
Benzo[kl]xanthene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	4,578	-	-	-	-
Benzoic acid, hexyl ester	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl	ug/kg	100	160,000[#3]			-	-	-	-	-	-	-	-	-	-	276	-	-	-	-
Biphenylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	2,580	-	-	-	-
Butylated Hydroxytoluene	ug/kg	100	150,000[#1]			-	-	-	-	1,566	-	-	-	-	-	-	-	-	-	-
Camphor (TIC)	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene, 1-methyl-	ug/kg	100				738	-	409	-	-	635	314	715	2,844	-	4,408	-	-	-	-
Chrysene, 5-methyl-	ug/kg	100				460	-	-	-	-	-	-	-	-	514	-	-	-	-	-
Chrysene, 6-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	5,382	-	-	-
Cyclopenta(cd)pyrene, 3,4-dihydro-	ug/kg	100				548	-	-	-	-	-	-	-	-	-	4,726	-	-	-	-
Cyclopenta(def)phenanthrenone	ug/kg	100				-	-	-	-	-	-	-	-	-	-	5,053	-	-	330	-
Dehydroabietic acid	ug/kg	100				-	-	-	-	47,248	-	-	-	-	-	-	-	-	-	-
D-Homoandrostane, (5.alpha.,13.alpha.)-	ug/kg	100				-	14,596	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,e)aceanthrylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	2,408	-	-
Dibenzo(a,i)pyrene	ug/kg	100				-	-	-	11,644	-	-	-	-	-	-	-	-	978	-	-
Dibenzo[def,mno]chrysene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	1,950	-	-	-	-
Dibenzofuran, 4-methyl-	ug/kg	100				-	1,396	-	-	-	-	-	-	-	143	-	-	-	-	-
Dibenzothiophene	ug/kg	100	780,000[#1]			-	-	-	-	-	-	-	-	499	-	-	-	-	-	-
Dibenzothiophene, 3-methyl-	ug/kg	100				-	1,830	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzothiophene, 4,6-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	663	-	-	-	-	-	-
Dicyclohexyl phthalate	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diphenyl sulfide	ug/kg	100				204	-	-	-	-	-	-	-	-	-	-	-	-	-	-
di-p-Tolylacetylene	ug/kg	100				-	4,840	-	760	-	137	-	-	-	812	-	-	-	-	-
D-Limonene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Eicosane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	318
Ferruginol	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene, 2-methyl-	ug/kg	100				-	15,811	-	3,442	-	645	450	1,117	4,204	510	-	-	-	-	-
Fluorene, 2,4a-dihydro-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heneicosane	ug/kg	100				-	-	-	-	5,074	-	454	-	-	-	-	-	-	-	-
Heneicosane, 3-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptadecane	ug/kg	100				-	-	-	-	-	-	2,103	-	-	-	-	-	-	-	-
Hexadecane	ug/kg	100				-	-	1,467	-	-	-	1,311	-	-	-	1,976	-	-	-	-
Hexathiane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration																
					Location	GTCS 1-42	GTCS 1-43		GTCS 1-44		GTCS 1-45		GTCS 1-46		GTCS 1-47		GTCS 1-48		GTCS 1-49	
					Date	04/06/2019	05/06/2019		05/06/2019		05/06/2019		05/06/2019	05/06/2019	05/06/2019		05/06/2019		05/06/2019	
					Sample Type	Normal	Normal		Normal		Normal		Normal	Normal	Normal		Normal		Normal	
					Sample Area	St. Quintin's Roundabout	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square
					Field ID	GTCS 1-42A	GTCS 1-43A		GTCS 1-44A		GTCS 1-45A		GTCS 1-46A	GTCS 1-46A	GTCS 1-47A		GTCS 1-48A		GTCS 1-49A	
					Sample_Depth_Range	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0-0.05	0.1-0.15	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05
Indene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno[1,2,3-fg]naphthacene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	1,132	-	-
Indole, 5-methyl-2-(4-pyridyl)-	ug/kg	100				238	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isocil	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
isoledene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Longifolene	ug/kg	100				-	-	-	-	7,933	-	-	-	-	-	-	-	-	-	-
Methyl dehydroabietate	ug/kg	100				-	-	-	-	5,678	-	-	-	-	-	-	-	-	-	-
Morpholine, 4-(1-cyclohepten-1-yl)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,4,5-trimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	432	-	-	-	-
Naphthalene, 1,4,6-trimethyl-	ug/kg	100				-	1,026	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,6,7-trimethyl-	ug/kg	100				-	1,373	-	-	-	-	-	-	240	166	503	-	-	136	-
Naphthalene, 1,6-dimethyl-	ug/kg	100				-	999	-	-	-	-	-	-	251	158	583	-	-	-	-
Naphthalene, 1,7-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	205	-	-	-	-	-
Naphthalene, 2,3,6-trimethyl-	ug/kg	100				-	973	-	-	-	-	-	-	-	135	257	-	-	-	-
Naphthalene, 2,3-dimethyl-	ug/kg	100				-	750	-	-	-	-	-	-	-	-	752	-	-	-	-
Naphthalene, 2,6-dimethyl-	ug/kg	100				-	561	-	-	-	-	-	-	-	-	826	-	-	-	-
Naphthalene, 2,7-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	165	379	-	-	-	-
Naphthalene, 2-ethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	137	-	-	-	-	-
Naphthalene, 2-phenyl-	ug/kg	100				-	-	-	-	-	179	-	-	-	-	3,093	-	-	-	-
Naphtho[1,2-b]thiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	306	1,910	-	-	-	-
Naphtho[2,1,8,7-klmn]xanthene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	1,664	-	-	-	-
Naphtho[2,1-b]thiophene	ug/kg	100				-	1,995	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Decanoic acid	ug/kg	100				-	-	-	-	2,983	-	-	-	-	-	-	-	-	-	-
Neocuproine	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexadecanoic Acid	ug/kg	100				-	-	-	-	196,284	-	-	-	-	-	-	-	-	-	-
Nonadecane	ug/kg	100				-	17,081	-	-	-	-	-	-	-	-	-	-	1,174	-	-
n-Pentafluorosulfanyl-S,S-diphenoxysufilimine	ug/kg	100				-	-	-	-	-	-	-	-	-	-	1,790	-	-	-	-
Octadecane	ug/kg	100				-	-	484	-	-	-	-	-	-	-	-	-	-	-	-
Octadecane, 1-iodo-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octadecanoic Acid	ug/kg	100				-	-	-	-	147,477	-	-	-	-	-	-	-	-	-	-
Octadecanoic acid, butyl ester	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
p-Cymene	ug/kg	4				<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Perylene	ug/kg	100				-	-	-	-	-	-	630	-	3,653	-	4,791	-	-	-	1,132
Phenanthrene, 1-methyl-	ug/kg	100				381	5,459	-	1,537	-	114	159	-	1,253	229	4,246	573	-	223	116
Phenanthrene, 2,5-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	289	-	-	-	-	-
Phenanthrene, 2-methyl-	ug/kg	100				482	-	-	1,095	-	259	-	392	1,804	634	3,412	1,094	-	351	-
Phenanthrene, 3,6-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	967	379	2,284	-	-	-	-
Phenanthrene, 4-methyl-	ug/kg	100				-	-	191	862	-	190	196	282	-	-	-	-	-	-	-
Phenol, 2,6-dimethoxy-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol, 2,6-dimethoxy-4-(2-propenyl)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol, 2-methoxy-4-(1-propenyl)-, (Z)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene, 1,3-dimethyl-	ug/kg	100				-	7,437	-	-	-	-	-	-	-	367	634	-	-	-	-
Pyrene, 1-methyl-	ug/kg	100				483	7,242	362	2,101	-	317	182	480	1,649	523	5,147	4,236	-	344	264
Pyrene, 2-methyl-	ug/kg	100				395	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quinoxaline, 6-(3-nitrobenzylidenamino)-	ug/kg	100				-	-	-	-	-	-	-	-	1,199	-	-	-	-	-	-
Retene	ug/kg	100				-	-	-	-	-	-	286	-	-	-	-	-	-	-	158
Rubicene-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,432
Tetrachloro-o-benzoquinone	ug/kg	100				-	2,648	-	-	-	-	-	-	763	203	-	-	-	305	-
Tetracosane	ug/kg	100				-	-	-	-	2,884	-	-	-	-	1,055	-	-	-	-	-
Tetradecanoic acid	ug/kg	100				-	-	-	-	2,707	-	-	-	-	-	-	-	-	-	-
trans-1,2-Bis(methyldichlorosilyl)ethylene	ug/kg	100				-	-	-	-	8,137	-	-	-	-	-	-	-	-	-	-
Trichlorovinylsilane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triphenylene	ug/kg	100				-	-	1,585	-	-	-	1,155	-	-	-	32,197	-	-	-	-
Triphenylene, 2-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-01	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-02	ug/kg	100				-	-	-	-	4,677	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-03	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-04	ug/kg	100				-	-	-	-	-	-	-	-	744	-	-	-	-	-	-
GT-SVOC-TIC-05	ug/kg	100				-	-	-	-	-	-	-	-	-	215	-	2,278	-	-	-
GT-SVOC-TIC-06	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-07	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-08	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-09	ug/kg	100				-	-	-	-	-	-	-	-	-	-	1,665	-	-	-	-
GT-SVOC-TIC-10	ug/kg	100				-	-	-	-	-	-	-	-	-	-	3,094	-	-	-	-
GT-SVOC-TIC-11	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-12	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-13	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-14	ug/kg	100				-	8,803	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-15	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-16	ug/kg	100				2,128	-	1,735	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-17	ug/kg	100				-	-	-	-	-	-	-	-	1,182	-	-	-	-	-	-
GT-SVOC-TIC-18	ug/kg	100				-	-	-	-	-	-	-	-	2,064	-	-	-	-	-	-
Benzo(b)naphtho(1,2-d)furan	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	Location	GTCS 1-42	GTCS 1-43		GTCS 1-44		GTCS 1-45		GTCS 1-46		GTCS 1-47		GTCS 1-48		GTCS 1-49	
					Date	04/06/2019	05/06/2019		05/06/2019		05/06/2019		05/06/2019	05/06/2019	05/06/2019		05/06/2019		05/06/2019	
					Sample Type	Normal	Normal		Normal		Normal		Normal	Normal	Normal		Normal		Normal	
					Sample Area	St. Quintin's Roundabout	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square
					Field ID	GTCS 1-42A	GTCS 1-43A		GTCS 1-44A		GTCS 1-45A		GTCS 1-46A	GTCS 1-46A	GTCS 1-47A		GTCS 1-48A		GTCS 1-49A	
					Sample_Depth_Range	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0-0.05	0.1-0.15	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05
PAH																				
Acenaphthene	mg/kg	0.01	510[#2]			0.11	0.39	0.07	<0.05	<0.05	0.06	1.08	0.09	0.23	<0.05	<0.05	<0.05	0.08	0.11	<0.05
Acenaphthylene	mg/kg	0.01	420[#2]			0.73	0.79	0.41	0.24	0.25	0.32	0.35	0.41	0.7	0.36	0.32	0.36	0.21	0.52	0.27
Anthracene	mg/kg	0.01	5,400[#2]			0.81	2.01	0.57	0.25	0.23	0.44	2.22	0.69	1.43	0.46	0.44	0.56	0.39	0.82	0.34
Benz(a)anthracene	mg/kg	0.01	11[#2]			3.06	8.55	2.1	1.06	0.95	2.06	6.38	2.36	6.06	1.89	1.9	1.55	1.33	2.18	1.56
Benzo(a) pyrene	mg/kg	0.01	2.7[#2]	***3.6***		***3.8***	***8.61***	2.75	1.4	1.25	3.13	***5.55***	3.27	***6.93***	2.3	2.16	1.78	1.46	2.24	1.43
Benzo(b)fluoranthene	mg/kg	0.01	3.3[#2]			5.23	11.28	3.87	1.85	1.64	3.83	7.34	4.47	9.33	2.89	2.85 - 6.397	2.36	1.88	3	1.94
Benzo(b)&(k)fluoranthene	mg/kg	0.01				7.26	15.67	5.37	2.57	2.28	5.32	10.2	6.21	12.96	4.01	3.96	3.28	2.61	4.17	2.69
Benzo(g,h,i)perylene	mg/kg	0.01	340[#2]			3	7.43	2.61	0.99	0.94	2.49	3.7	2.68	5.86	1.55	1.36	1.3	0.93	1.53	1.13
Benzo(k)fluoranthene	mg/kg	0.01	93[#2]			2.03	4.39	1.5	0.72	0.64	1.49	2.86	1.74	3.63	1.12	1.11	0.92	0.73	1.17	0.75
Chrysene	mg/kg	0.01	22[#2]			3.59	7.76	2.42	1.05	1.09	2.38	5.68	3.01	6.38	1.96	1.92	1.61	1.34	1.98	1.23
Coronene	mg/kg	0.04				0.72	1.48	0.67	0.25	0.25	0.43	0.67	0.64	1.28	0.4	0.3	0.28	0.23	0.37	0.27
Dibenz(a,h)anthracene	mg/kg	0.01	0.28[#2]			0.56	1.51	0.44	0.2	0.22	0.69	0.96	0.66	1.44	0.38	0.36	0.23	0.23	0.34	0.29
Fluoranthene	mg/kg	0.01	560[#2]			6.09	13.8	4.29	2.18	1.81	3.63	10.97	5.18	11.38	3.48	3.15	2.93	2.4	4.94	2.09
Fluorene	mg/kg	0.01	400[#2]			0.12	0.43	0.08	<0.04	<0.04	0.06	0.66	0.09	0.24	0.06	0.06	0.07	0.07	0.18	0.04
Indeno(1,2,3-c,d)pyrene	mg/kg	0.01	36[#2]			2.86	7.08	2.44	1.03	0.94	2.67	3.52	2.49	5.28	1.59	1.41	1.33	0.97	1.53	1.13
Naphthalene	mg/kg	0.01	5.6[#2]			<0.027 - 0.16	<0.027 - 0.61	<0.027 - 0.15	<0.027 - 0.06	<0.027 - 0.07	<0.027 - 0.09	<0.027 - 2.67	<0.027 - 0.15	<0.027 - 0.25	<0.027 - 0.11	<0.027 - 0.13	<0.027 - 0.07	<0.027 - 0.05	<0.027 - 0.2	<0.027 - 0.1
Phenanthrene	mg/kg	0.01	220[#2]			2.1	5.74	1.38	0.77	0.55	1.27	8.41	1.63	3.94	0.96	1.08	1.3	0.99	3.36	0.8
Pyrene	mg/kg	0.01	1,200[#2]			5.35	11.79	3.61	1.91	1.61	3.23	9.26	4.32	9.64	3.16	2.73	2.58	2.08	4.15	1.82
PAH 16 Total	mg/kg	0.6				39.6	92.2	28.7	13.7	12.2	27.8	71.6	33.2	72.7	22.3	21	19	15.1	28.3	14.9
PAH 17 Total	mg/kg	0.64				40.32	93.65	29.36	13.96	12.44	28.27	72.28	33.88	74	22.67	21.28	19.23	15.37	28.62	15.19
PCB (Dutch 7) congeners																				
PCB 28	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7	<5	<5
PCB 52	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	19	22	<5	<5
PCB 101	ug/kg	5				<5	8	<5	<5	<5	<5	<5	<5	<5	<5	<5	22	27	<5	<5
PCB 118	ug/kg	5	120[#1]			<5 - 1.03	4.97 - 8	<5 - 3.48	<5 - 0.516	<5 - 0.725	<5 - 0.989	<5 - 1.21	<5 - 2.33	<5 - 2.79	<5 - 0.856	<5 - 1.06	17.2 - 19	23 - 33.3	<5 - 1.96	<5 - 10.1
PCB 138	ug/kg	5				<5	42	15	<5	<5	<5	<5	8	12	<5	<5	16	11	<5	<5
PCB 153	ug/kg	5				<5	33	11	<5	<5	<5	<5	6	6	<5	<5	13	10	<5	<5
PCB 180	ug/kg	5				<5	59	17	<5	<5	<5	<5	10	23	<5	<5	9	6	<5	<5
Total PCB 7 Congeners	ug/kg	35	200[#5]			<35	150	43	<35	<35	<35	<35	<35	41	<35	<35	98	106	<35	<35
PCB (WHO12) 12 congeners																				
Tetrachlorobiphenyl, 3,3,4,4- (PCB 77)	ug/kg	Various	38[#1]			0.0752	0.477	0.218	0.0501	0.0674	0.0386	0.0396	0.162	0.256	0.0354	0.0419	1.87	5.24	0.0708	0.0932
Tetrachlorobiphenyl, 3,4,4,5- (PCB 81)	ug/kg	Various	12[#1]			0.00202	0.0155	0.00622	0.00123	0.00229	0.000682	0.000936	0.00648	0.0102	0.00124	0.000818	0.0856	0.223	0.00206	0.00296
Pentachlorobiphenyl, 2,3,3,4,4- (PCB 105)	ug/kg	Various	120[#1]			0.486	2.64	1.57	0.267	0.359	0.452	0.543	1.17	1.33	0.383	0.446	11.2	22.3	0.898	4.31
Pentachlorobiphenyl, 2,3,4,4,5- (PCB 114)	ug/kg	Various	120[#1]			0.00593	0.0512	0.029	0.00641	0.00381	0.0113	0.0095	0.0234	0.0684	0.00655	0.00721	0.379	0.938	0.0247	0.195
Pentachlorobiphenyl, 2,3',4,4',5- (PCB-118)	ug/kg	Various	120[#1]			1.03	4.97	3.48	0.516	0.725	0.989	1.21	2.33	2.79	0.856	1.06	17.2	33.3	1.96	10.1
Pentachlorobiphenyl, 2,3,4,4,5- (PCB 123)	ug/kg	Various	120[#1]			0.0441	0.222	0.0811	0.0241	0.026	0.0216	0.0283	0.0785	0.138	0.0214	0.0289	0.66	0.843	0.0428	0.179
Pentachlorobiphenyl, 3,3,4,4,5- (PCB 126)	ug/kg	Various	0.036[#1]			0.0171	0.0497	0.04	0.00176	0.00758	0.00612	0.00603	0.0317	0.0247	0.00629	0.00785	0.0856	0.169	0.0114	0.0168
Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 156)	ug/kg	Various	120[#1]			0.233	1.6	0.941	0.15	0.177	0.219	0.238	0.635	0.593	0.181	0.226	1.54	2	0.307	1.51
Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 157)	ug/kg	Various	120[#1]			0.0527	1.12	0.417	0.0492	0.0585	0.065	0.0722	0.305	0.508	0.0688	0.0783	0.529	0.579	0.0923	0.34
Hexachlorobiphenyl, 2,3,4,4,5,5- (PCB 167)	ug/kg	Various	120[#1]			0.0957	1.83	0.646	0.0744	0.0897	0.0876	0.105	0.379	0.605	0.0934	0.118	0.773	0.823	0.126	0.504
Hexachlorobiphenyl, 3,3,4,4,5,5- (PCB 169)	ug/kg	Various	0.12[#1]			<0.000289	0.0115	0.00343	0.000884	0.000256	0.00125	0.0011	<0.000469	0.00675	0.0014	0.00103	0.00147	0.00152	0.000557	0.00176
Heptachlorobiphenyl, 2,3,3,4,4,5,5- (PCB 189)	ug/kg	Various	130[#1]			0.0261	0.62	0.207	0.0156	0.0193	0.0177	0.0211	0.129	0.296	0.0246	0.0306	0.136	0.109	0.0291	0.0636
Chlorinated Dioxins and Furans																				
2378-TCDF	ng/kg	Various				10.9	29.9	14.5	2.55	3.05	8.32	8.78	15.7	27.4	7.08	6.83	3.51	<0.427	5.41	3.63
12378-PeCDD	ng/kg	Various				<0.852	8.54	2.12	0.859	<0.676	1.36	0.761	3.55	9.28	1.03	1.15	0.58	<0.631	1.41	1.25
123478-HxCDD	ng/kg	Various				2.97	7.76	3.82	1.29	1.08	0.726	1.15	3.91	9.25	1.26	1.41	1.91	0.868	1.63	1.89
123678-HxCDD	ng/kg	Various				7.03	30.1	13.6	2.47	3.07	3.82	4.02	12.2	29.7	5.02	6.51	11	8.82	7.43	6.1
123789 HxCDD	ng/kg	Various				4.05	16.7	6.96	1.67	1.66	2.06	2.15	7.74	14.3	0.996	2.3	3.54	4.79	3.99	2.96
1234678-HpCDD	ng/kg	Various				72.4	557	232	39.6	68	52	60.5	224	478	162	212	356	278	92.4	86.7
OCDD	ng/kg	Various				362	5,300	1,840	331	483	443	449	1,820	4,310	1,690	1,940	4,280	2,920	700	624
OCDF	ng/kg	Various				70.6	476	167	16.2	20.4	28	29.4	222	451	131	135	187	141	67.7	47.9
2378-TCDD	ng/kg	Various				<0.587	2.36	<0.291	<0.339	<0.204	<0.206	<0.171	<0.618	2.3	<0.228	<0.149	<0.236	<0.398	<0.428	<0.442
12378-PeCDF	ng/kg	Various				1.65	17.4	5.52	<0.32	4.18	6.3	5.13	6.46	19.4	6.25	5.09	4.56	3.63	3.38	2.99
23478-PeCDF	ng/kg	Various				9.45	29.7	15.6	2.91	3.33	7.5	7.52	14	33.5	6.15	4.71	4.59	2.97	7.1	5.07
123478-HxCDF	ng/kg	Various				9.19	23.5	11	3.22	3.55	9.66	9.16	13	32.1	8.78	5.56	6.72	4.33	6.58	4.67
123678-HxCDF	ng/kg	Various				8.85	16.5	10.8	2.54	2.47	4.6	5.49	<0.595	20.8	3.98	3.57	3.29	3.27	5.43	3.65
234678-HxCDF	ng/kg	Various				9.24	18.1	13.1	2.3	3.27	4.09	2.74	<0.56	25	3.53	4.45	4.29	3.46	5.5	4.33
123789-HxCDF	ng/kg	Various				<0.545	2.49	1.79	0.314	<0.443	0.876	<0.465	<603	2.01	<0.265	<0.517	0.901	0.545	1.02	0.51
1234678-HpCDF	ng/kg	Various				80.8	396	170	16.3	25.6	24.9	29.3	155	346	53.7	73.4	86.1	59.9	54.8	41.2
1234789-HpCDF	ng/kg	Various				2.54	16.9	8.46	1.04	<0.724	2.58	3.36	6.2	14.2	4	4.25	6.86	5.49	2.19	1.31
Brominated Dioxins and Furans																				
2378-TBDD	ng/kg	Various				<0.49	<0.71	<0.47	<0.75	<0.5	<0.74	<0.55	<0.85	<0.82	<0.7	<0.58	<0.75	<0.6	<0.72	<0.6
12378-PBDD	ng/kg	Various				<0.47	<0.75	<0.52	<0.78	<0.53	<0.8	<0.53	<0.83	<0.83	<0.77	<0.55	<0.8	<0.57	<0.77	<0.59
123478-HxBDD	ng/kg	Various				<0.5	<0.68	<0.54	<0.66	<0.55	<0.69	<0.57	<0.82	<0.82	<0.68	<0.6	<0.77	<0.59	<0.74	<0.57
123678-HxBDD	ng/kg	Various				<0.48	<0.63	<0.59	<0.65	<0.6	<0.7	<0.61	<0.82	<0.84	<0.7	0.63	<0.69	0.6	<0.69	<0.6
123789-HxBDD	ng/kg	Various				<0.47	<0.7	<0.48	<0.7	<0.53	<0.74	<0.55	<0.84	<0.84	<0.7	0.61	<0.73	0.67	<0.7	<0.54
1234678-HpBDD	ng/kg	Various				0.58	1.81	<0.6	<0.71	<0.61	<0.73	0.63	0.97	1.78	<0.81	0.92	0.92	0.77	<0.8	<0.6
OBDD	ng/kg	Various				<0.8	<0.84	<0.81	<0.8	<0.8	<0.81	<0.78	<0.83	<0.85	<0.8	<0.8	<0.8	<0.78	<0.74	<0.79
2378-TBDF	ng/kg	Various				5.03	17.5	0.98	1.01	2.51	2.55	3.01	11.14	19.67	3.76	8.93	6.23	7.14	2.09	3.18
12378-PBDF	ng/kg	Various				2.87	8.34	1	0.87	0.98	1.36	1.25	7.91	14.53	1.77	4.56	4.18	4.12	1.36	2.29
23478-PBDF	ng/kg	Various				1.7	4.91	<0.5	1.19	0.78	1.7	1.1	4.23	8.19	1.19	2.33	2.18	2.09	0.81	1.58
123478-HxBDF	ng/kg	Various				1.44	6.12	<0.55	0.9	0.6	0.75	0.75	2.55	5.71	1.39	1.54	1.69	1.33	1.29	0.89
123678-HxBDF	ng/kg	Various				1.39	3	<0.49	1.46	0.52	1.99	0.68	2.71	4.4	3.01	1.29	1.44	1.4	0.8	0.65
234678-HxBDF	ng/kg	Various				0.46	<0.74	<0.46	<0.78	<0.49	<0.8	0.47	1.12	2.57	0.74	0.91	0.9	1.06	<0.77	0.62
123789-HxBDF	ng/kg	Various				0.41	1.29	<0.44	<0.72	<0.45	<0.75	<0.48	<0.85	1.15	<0.76	0.56	<0.78	<0.57	<0.8	<0.57
1234678-HpBDF	ng/kg	Various				<0.4	2.27	<0.48	<0.68	<0.5	<0.69	<0.53	<0.82	<0.84	<0.67	0.5	<0.7	0.5	<0.75	<0.53
1234789-HpBDF	ng/kg	Various				<0.42	3.16	<0.55	<0.73	<0.56	<0.72	<0.6	1.33	3.09	<0.7	<0.58	<0.79	<0.6	<0.79	<0.66
OBDF	ng/kg	Various				<0.53	1.11	<0.65	<0.82	<0.68	<0.8	<0.7	<0.85	1.22	<0.77	<0.7	<0.82	<0.72	<0.81	<0.72
Organophosphorous flame retardants																				
Triphenylphosphate	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tris(1-chloro-2-propyl)phosphate	mg/kg	Various	630[#1]			<0.15	<0.5	<0.15	<0.15	<0.15	<0.15	<0.5	<0.15	<0.5	<0.15	<0.15	<0.15	<0.1	<0.15	<0.15
Tris(2-ethylhexyl) phosphate	mg/kg	0.1	170[#1]			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration																
					Location	GTCS 1-42	GTCS 1-43		GTCS 1-44		GTCS 1-45		GTCS 1-46		GTCS 1-47		GTCS 1-48		GTCS 1-49	
					Date	04/06/2019	05/06/2019		05/06/2019		05/06/2019		05/06/2019	05/06/2019	05/06/2019		05/06/2019		05/06/2019	
					Sample Type	Normal	Normal		Normal		Normal		Normal	Normal	Normal		Normal		Normal	
					Sample Area	St. Quintin's Roundabout	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square
					Field ID	GTCS 1-42A	GTCS 1-43A		GTCS 1-44A		GTCS 1-45A		GTCS 1-46A	GTCS 1-46A	GTCS 1-47A		GTCS 1-48A		GTCS 1-49A	
					Sample_Depth_Range	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0-0.05	0.1-0.15	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05
Brominated flame retardents (PBDEs)																				
2,2",4-tribromodiphenyl ether (BDE-17)	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,4"-tribromodiphenyl ether (BDE-28)	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4"-tetrabromodiphenyl ether (BDE-47)	mg/kg	0.1	6.3[#1]			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,3",4,4"-tetrabromodiphenyl ether (BDE-66)	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",3,4,4"-pentabromodiphenyl ether (BDE-85	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4",5-pentabromodiphenyl ether (BDE-99	mg/kg	0.1	6.3[#1]			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4",6-pentabromodiphenyl ether (BDE-10	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",3,4,4",5"-hexabromodiphenyl ether(BDE-1	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4",5,5"-hexabromodiphenyl ether(BDE-1	mg/kg	0.1	13[#1]			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2",4,4",5,6"-hexabromodiphenyl ether(BDE-1	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2,3,4,4,5,6-heptabromodiphenyl ether (BDE-1	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polybrominated biphenyls (PBBs)																				
2,2-dibromobiphenyl (PBB 4)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4,4-dibromobiphenyl (PBB 15)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,2,5-tribromobiphenyl (PBB 18)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
tetrabromobiphenyl (3,3,5,5-) (PBB 80)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexabromobiphenyl (PBB 153)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrabromobisphenol A																				
tetrabromobisphenol A	mg/kg	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexabromocyclododecane (HBCDD)																				
Hexabromocyclododecane (HBCDD)	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isocyanates																				
Isocyanic Acid	ug/kg	250				<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Methyl Isocyanate	ug/kg	250	4,600[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Ethyl Isocyanate	ug/kg	250				<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Propyl Isocyanate	ug/kg	250				<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Phenyl Isocyanate	ug/kg	250				<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Hexamethylene diisocyanate	ug/kg	250	3,100[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
2,4-Toluene diisocyanate	ug/kg	250	6,400[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
2,6-Toluene diisocyanate	ug/kg	250	5,300[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Isophorone Diisocyanate	ug/kg	500				<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500
4,4-Methylene-bis(phenyl-isocyanate)	ug/kg	250	850,000,000[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Cyanides																				
Cyanide (Free)	mg/kg	0.5	20[#5]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide Total	mg/kg	0.5	78[#1]			<0.5	4.9	1.2	0.6	0.8	<0.5	1	1.9	10.5	1	1	3.6	2.1	<0.5	<0.5
Thiocyanate	mg/kg	0.6	20[#5]			1.6	<0.6	0.8	<0.6	<0.6	0.6	0.9	0.9	<0.6	0.7	1	<0.6	1	<0.6	<0.6
Asbestos																				
General Description (Bulk Analysis)	None					soil.stones	soil-stones	Soil/Stones	soil.stones	soil.stones	soil.stones	soil.stones	Soil/Stone	Soil/Stone	Soil/Stones	soil.stones	Soil/Stones	soil-stones	soil.stones	soil-stones
Asbestos Fibres	None					NAD	Fibre Bundles	Fibre Bundles	NAD	NAD	NAD	NAD	NAD	Fibre Bundles	NAD	Fibre Bundles	NAD	NAD	Fibre Bundles	Fibre Bundles
Asbestos ACM	None					NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Asbestos Type	None					NAD	Chrysotile	Amosite	NAD	NAD	NAD	NAD	NAD	Chrysotile	NAD	Amosite	NAD	NAD	Chrysotile	Chrysotile
Asbestos Level Screen						NAD	etermined from Scr	less than 0.1%	NAD	NAD	NAD	NAD	NAD	less than 0.1%	NAD	less than 0.1%	NAD	NAD	less than 0.1%	less than 0.1%
Potentially Respirable Fibres per gram	f/g	0				-	99,523	66,027	-	-	-	-	-	0	-	0	-	-	67,482	0
SVF / MMMF																				
Synthetic/MMMF	None					Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Present	Present	Absent	Absent
Asbestos Quantification																				
Asbestos Gravimetric & PCOM Total	mass %	0.001				-	0.001	<0.001	-	-	-	-	-	0.002	-	<0.001	-	-	<0.001	<0.001
Asbestos PCOM Quantification (Fibres)	mass %	0.001				-	<0.001	<0.001	-	-	-	-	-	<0.001	-	<0.001	-	-	<0.001	<0.001
Total ACM Gravimetric Quantification (% Asb)	mass %	0.001				-	<0.001	<0.001	-	-	-	-	-	<0.001	-	<0.001	-	-	<0.001	<0.001
Total Detailed Gravimetric Quantification (% As	mass %	0.001				-	0.001	<0.001	-	-	-	-	-	0.002	-	<0.001	-	-	<0.001	<0.001
Asbestos Quantification - Total - %	mass %	0.001				-	0.001	<0.001	-	-	-	-	-	0.002	-	<0.001	-	-	<0.001	<0.001
Total Organic Carbon																				
TOC	percent	0.02				6.51	4.8	4.83	3.68	4.1	1.36	3.76	4.85	5.12	4.71	4.52	2.34	6.8	3.79	3.74
Inorganics																				
pH (Lab)	pH units	0.01				6.85	7.93	7.57	7.82	7.7	7.72	7.6	7.84	8.05	8.17	7.99	7.8	7.64	8.06	7.79
Other																				
Natural Moisture Content	percent	0.1				17.3	13.3	13.1	13.7	15.5	7.3	10.5	16.2	13.2	20.3	15.4	16.9	13.9	8.4	8.2
ESdat Calculated																				
Cresols Total	ug/kg	20	180[#3]			<20	76	<20	<20	<20	<20	<20	<20	<20	<20	313	<20	<20	<20	<20
Benzo(a)pyrene (surrogate marker for PAH mix	mg/kg	0.01	5.0[#6]			3.8	8.61	2.75	1.4	1.25	3.13	5.55	3.27	6.93	2.3	2.16	1.78	1.46	2.24	1.43
Xylene Total	ug/kg	8	130,000[#2]			<8	18	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Trichlorobenzene (total)	ug/kg	14	2200[#5]			<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
AECOM Calculated																				
Sum of PCDD/F +PCB12	ng/kg	Various	8700[#4]			2740	20610	10165	1596	2173	2527	2908	8399	12518	3784	4480	39446	69988	4547	18171
PCDD/F+PBDD/F+PCB12 Hazard Index	-	-	1			0.13	0.57	0.24	0.05	0.06	0.1	0.09	0.25	0.57	0.11	0.12	0.25	0.34	0.11	0.11
WHO2005 TEQ (PCDD/F + PBDD/F + PCB)	ng/kg	Various				13.046	56.596	23.699	5.002	5.469	9.939	9.166	24.28	57.252	10.894	12.474	23.039	29.304	11.034	10.462

Comments
#1 USEPA RSL (May 2019)
#2 LQM/CIEH S4ULs 2015
#3 EIC/AGS/CL:AIRE 2010
#4 EA SGV 2009
#5 Dutch IV 2013
#6 Defra C4SL 2014
#7 AECOM (modified EIC GAC to include plant uptake route)
GSC based on residential (with private gardens) land use scenario
2.5% soil organic matter content selected for GSC #2 and #3
(blank): No assessment criteria available
- : Not analysed
Field_D: Field Duplicate
NAD: No Asbestos Detected

Appendix TN18-A
Table A
Tabulated Laboratory Data

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	Location	GTCS 1-50		GTCS 1-51		GTCS 1-52	GTCS 1-53	GTCS 1-54	GTCS 1-55	GTCS 1-56	GTCS 1-57	GTCS 1-58	GTCS 1-59	GTCS101		GTCS102	GTCS103	GTCS104
					Date	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	10/04/2019		10/04/2019	10/04/2019	10/04/2019
					Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal	Normal	Normal
					Sample Area	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Tower Cordon	Tower Cordon	Tower Cordon	Tower Cordon	Tower Cordon
					Field ID	GTCS 1-50A	GTCS 1-50A	GTCS 1-51A	GTCS 1-51A	GTCS 1-52A	GTCS 1-53A	GTCS 1-54A	GTCS 1-55A	GTCS 1-56A	GTCS 1-57A	GTCS 1-58A	GTCS 1-59A	GTCS101	DUP01	GTCS102	GTCS103	GTCS104
					Sample_Depth_Range	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
Metals																						
Aluminium	mg/kg	50	77,000[#1]			13,020	9,700 - 10,759	11,880	8,884 - 10,088	9,573 - 12,353	12,500	11,350	9,007 - 11,780	11,210	12,190	10,730	6,998 - 15,028	-	-	-	-	-
Arsenic	mg/kg	0.5	37[#6]	***32***		13.7	14.1 - 16.3	15.2	17.6	16.1 - 18	16.1	12.4	14.3 - 16.8	18.9	17.1	23.1	14.6 - 16.5	5.2	5.5	9	6.4	6.6
Barium	mg/kg	1	460[#7]			183	157 - 185	177	149 - 175	177 - 191	194	158	134 - 179	172	170	96	102 - 173	62	63	93	89	83
Beryllium	mg/kg	0.5	1.7[#2]			1.1	0.9	1.1	1.1 - 1.2	1 - 1.1	1.2	1	0.9 - 1.1	1.3	1.1	1	0.7 - 1.8	0.7	0.7	1.3	0.7	0.7
Boron	mg/kg	0.1	290[#2]			3	1.9 - 2.1	1.9	1.3 - 1.6	1.8 - 2	2.1	1.7	1.7 - 1.8	1.9	2.5	1.3	4.4 - 6.9	-	-	-	-	-
Cadmium	mg/kg	0.1	22[#6]	***2.1***		***3.6***	***4 - 5.3***	0.6	0.5	0.5 - 0.7	0.7	0.7	0.6 - 1	0.8	1.4	0.7	0.6 - 0.7	<0.1	<0.1	<0.1	<0.1	0.1
Chromium (Trivalent)	mg/kg	0.5	910[#2]			153.1	43.2 - 47.2	145.3	26.6 - 26.8	27.6 - 30.2	202.6	268.8	26.2 - 31.3	132.2	129	121.6	22.2 - 33.1	-	-	-	-	-
Chromium (hexavalent)	mg/kg	0.3	21[#6]			<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	-	-	-	-
Chromium (III+VI)	mg/kg	0.5	Use either CrIII or CrVI[#2]			153.1	43.2 - 47.2	145.3	26.6 - 26.8	27.6 - 30.2	202.6	268.8	26.2 - 31.3	132.2	129	121.6	22.2 - 33.1	49	52	58.4	27.3	52.1
Copper	mg/kg	1	2,400[#2]	***190***		81	80 - 85	59	46 - 48	43 - 52	56	50	46 - 62	54	57	28	41 - 48	14	15	30	101	20
Lead	mg/kg	5	200[#6]	***820***		222	193 - 195	331	298 - 334	319 - 422	330	287	476 - 484	274	263	102	128	17	18	72	52	57
Mercury	mg/kg	0.1	40[#2]	***1.9***		1.5	0.4 - 1.5	0.8	0.1 - 0.7	0.3 - 0.7	0.7	0.6	0.4 - 0.8	0.6	0.8	0.1	<0.1 - 0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	0.7	130[#2]	***42***		28.1	23.9 - 24.7	25.9	20.8 - 22.2	21.1 - 24.7	28.5	28.9	19.3 - 23.7	29.5	25.1	27.9	17.5 - 23.4	12.3	11.1	27.4	12.4	13
Selenium	mg/kg	1	250[#2]			1	<1 - 1	1	<1	<1 - 1	<1	1	<1 - 1	1	1	2	1 - 2	<1	<1	1	<1	<1
Vanadium	mg/kg	1	410[#2]			53	43	55	46 - 49	47 - 52	58	54	43 - 52	56	53	49	36 - 57	30	30	67	32	32
Zinc	mg/kg	5	3,700[#2]			332	285 - 329	221	191 - 204	182 - 242	223	190	186 - 244	207	227	152	189 - 296	63	63	90	126	82
VOCs																						
1,1,1,2-tetrachloroethane	ug/kg	5	2,800[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-trichloroethane	ug/kg	5	18,000[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,2,2-tetrachloroethane	ug/kg	3	3,400[#2]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1,2-trichloroethane	ug/kg	4	1,200[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,1-dichloroethane	ug/kg	6	1,200[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
1,1-dichloroethene	ug/kg	6	3,900[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
1,1-dichloropropene	ug/kg	3				<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2,3-trichlorobenzene	ug/kg	7	3,600[#2]			<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
1,2,3-trichloropropane	ug/kg	4	5.1[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,2,4-trimethylbenzene	ug/kg	6	850[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
1,2-dibromo-3-chloropropane	ug/kg	4	5.3[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,2-dibromoethane	ug/kg	3	36[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2-dichloroethane	ug/kg	5	11[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-dichloropropane	ug/kg	4	42[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,3,5-trimethylbenzene	ug/kg	3	270,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,3-dichloropropane	ug/kg	4	1,600,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
2,2-dichloropropane	ug/kg	4				<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
2-chlorotoluene	ug/kg	3	1,600,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
4-chlorotoluene	ug/kg	3	1,600,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Benzene	ug/kg	5	870[#6]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromobenzene	ug/kg	2	2,000[#3]			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Bromochloromethane	ug/kg	4	150,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromodichloromethane	ug/kg	4	290[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromoform	ug/kg	4	5,900[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	ug/kg	1	6,800[#1]			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3-Methyl butanal	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/kg	4	56[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chlorobenzene	ug/kg	4	1,000[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chlorodibromomethane	ug/kg	5	8,300[#1]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	ug/kg	6	11,000[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
Chloroform	ug/kg	5	1,700[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloromethane	ug/kg	3	9.8[#3]			11	<3	4	<3	4	4	3	3	4	3	5	9	6	5	4	4	5
cis-1,2-dichloroethene	ug/kg	7	190[#3]			<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
cis-1,3-dichloropropene	ug/kg	4				<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromomethane	ug/kg	4	24,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dichlorodifluoromethane	ug/kg	2	87,000[#1]			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloromethane	ug/kg	30	980[#3]			<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	41	<30	<30	<30	<30	<30
Ethylbenzene	ug/kg	3	110,000[#2]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Eucalyptol	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	ug/kg	3	27,000[#3]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Methyl Methacrylate	ug/kg	100	4,400,000[#1]			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MTBE	ug/kg	6	84,000[#3]			<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
n-butylbenzene	ug/kg	4	3,900,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
n-propylbenzene	ug/kg	4	82,000[#3]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
sec-butylbenzene	ug/kg	4	7,800,000[#1]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/kg	3	19,000[#3]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
tert-butylbenzene	ug/kg	5	7,800,000[#1]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethene	ug/kg	3	390[#2]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Toluene	ug/kg	3	290,000[#2]			<3	<3	6	<3	4	5	5	3	<3	<3	<3	<3	<3	<3	<3	<3	<3
trans-1,2-dichloroethene	ug/kg	3	340[#3]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
trans-1,3-dichloropropene	ug/kg	3				<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Trichloroethene	ug/kg	5	34[#2]			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichlorofluoromethane	ug/kg	3	23,000,000[#1]			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Undecane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene (m & p)	ug/kg	4				<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Xylene (o)	ug/kg	4	140,000[#2]			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vinyl chloride	ug/kg	2	0.87[#2]			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
VOC TICs	None					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trihalomethanes	ug/kg					<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration																	
Location					GTCS 1-50		GTCS 1-51		GTCS 1-52	GTCS 1-53	GTCS 1-54	GTCS 1-55	GTCS 1-56	GTCS 1-57	GTCS 1-58	GTCS 1-59	GTCS101		GTCS102	GTCS103	GTCS104
Date					06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	10/04/2019		10/04/2019	10/04/2019	10/04/2019
Sample Type					Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal	Normal	Normal
Sample Area					Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Tower Cordon	Tower Cordon	Tower Cordon	Tower Cordon	Tower Cordon
Field ID					GTCS 1-50A	GTCS 1-50A	GTCS 1-51A	GTCS 1-51A	GTCS 1-52A	GTCS 1-53A	GTCS 1-54A	GTCS 1-55A	GTCS 1-56A	GTCS 1-57A	GTCS 1-58A	GTCS 1-59A	GTCS101	DUP01	GTCS102	GTCS103	GTCS104
Sample_Depth_Range					0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
SVOCs																					
Dibenzo[a,e]pyrene	ug/kg	100	42[#1]		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-methylnaphthalene	ug/kg	10	240,000[#1]		31	37	54	239	52	56	58	69	57	48	18	28	<10	<10	<10	<10	<10
4-bromophenyl phenyl ether	ug/kg	10			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-chlorophenyl phenyl ether	ug/kg	10			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Azobenzene	ug/kg	10	5,600[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bis(2-chloroethoxy) methane	ug/kg	10	190,000[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bis(2-chloroethyl)ether	ug/kg	10	230[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbazole	ug/kg	10			112	51	68	3,554	73	182	166	133	109	93	49	97	<10	15	<10	<10	17
Dibenzofuran	ug/kg	10	73,000[#1]		53	26	33	1,027	34	78	66	63	41	49	23	32	<10	<10	<10	<10	<10
Hexachlorobutadiene	ug/kg	4	700[#2]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hexachlorocyclopentadiene	ug/kg	10	1,800[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexachloroethane	ug/kg	10	480[#3]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Anilines																					
2-nitroaniline	ug/kg	10	630,000[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3-nitroaniline	ug/kg	10			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-chloroaniline	ug/kg	10	2,700[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-nitroaniline	ug/kg	10	27,000[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Amino Aliphatics																					
N-nitrosodi-n-propylamine	ug/kg	10	78[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Explosives																					
2,4-Dinitrotoluene	ug/kg	10	3,200[#3]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,6-dinitrotoluene	ug/kg	10	1,700[#3]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nitrobenzene	ug/kg	10	5,100[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Phenolics																					
2,4-dimethylphenol	ug/kg	10	43,000[#3]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-chloronaphthalene	ug/kg	10	9,200[#3]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-methylphenol	ug/kg	10	Use Cresols Total[#3]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-nitrophenol	ug/kg	10			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-chloro-3-methylphenol	ug/kg	10	6,300,000[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-methylphenol	ug/kg	10	Use Cresols Total[#3]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-nitrophenol	ug/kg	10			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phenol	ug/kg	10	200,000[#2]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Halogenated Phenols																					
2,4,5-trichlorophenol	ug/kg	10	6,300,000[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4,6-trichlorophenol	ug/kg	10	49,000[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4-dichlorophenol	ug/kg	10	190,000[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-chlorophenol	ug/kg	10	390,000[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Pentachlorophenol	ug/kg	10	520[#2]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Halogenated Benzenes																					
1,2,4-trichlorobenzene	ug/kg	7	6,400[#2]		<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
1,2-dichlorobenzene	ug/kg	4	55,000[#2]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,3-dichlorobenzene	ug/kg	4	1,000[#2]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
1,4-dichlorobenzene	ug/kg	4	150,000[#2]		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Hexachlorobenzene	ug/kg	10	3,300[#2]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC - Phthalates																					
Bis(2-ethylhexyl) phthalate	ug/kg	100	610,000[#3]		370	350	402	282	428	395	2,080	322	313	945	473	844	<100	<100	163	135	143
Butyl benzyl phthalate	ug/kg	100	3,300,000[#3]		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Diethylphthalate	ug/kg	100	260,000[#3]		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Dimethyl phthalate	ug/kg	100	16,400[#5]		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Di-n-butyl phthalate	ug/kg	100	31,000[#3]		532	688	<100	<100	<100	<100	<100	<100	<100	195	<100	<100	<100	<100	<100	<100	<100
Di-n-octyl phthalate	ug/kg	100	2,800,000[#3]		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SVOC - Solvents																					
Isophorone	ug/kg	10	570,000[#1]		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SVOC TIC																					
SVOC TICs	None				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.alpha.-Phellandrene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.alpha.-Pinene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.beta.-Guaiene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
[1,1-Biphenyl]-4-carboxaldehyde	ug/kg	100			-	-	-	2,731	-	-	-	-	-	-	-	-	-	-	-	-	-
1(2Aminobenzylidene)1234-tetrahydroacridineN	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl, 2,3,3,4-tetrachloro-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	156	-	-	-	-	-	-
1,1-Biphenyl, 2,3,3,5-tetrachloro-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	449	-	-	-	-	-	-
1,1-Biphenyl, 2,3,4,6-tetrachloro-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	177	-	-	-	-	-	-
1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-die	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,9,10-Dibenzopyrene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,5,5-Trimethyl-6-methylene-cyclohexene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,6-Dimethylphenazine	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10,18-Bisnorabieta-5,7,9(10),11,13-pentaene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10,18-Bisnorabieta-8,11,13-triene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10s,11s-Himachala-3(12),4-diene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11H-Benzo[a]carbazole	ug/kg	100			-	-	-	4,042	-	-	-	-	-	-	-	-	-	-	-	-	-
11H-Benzo[a]fluoren-11-one	ug/kg	100			-	-	-	8,528	-	539	259	-	-	-	-	-	-	-	-	-	-
11H-Benzo[a]fluoren-11-one, 10-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11H-Benzo[a]fluorene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11H-Benzo(b)fluorene	ug/kg	100			-	-	-	-	-	534	-	-	-	-	-	403	-	-	-	-	-
11H-Indeno(1,2-b)quinoline	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13-Docosenamide, (Z)-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13-Isopropylpodocarpen-12-ol-20-al	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Cyclopropa[l]phenanthrene,1a,9b-dihydro-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methyldibenzothiophene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Naphthalenecarboxylic acid, 2-benzoyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-(2H-Benzotriazol-2-yl)-5-methylphenol	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-(Acetoxymethyl)-3-(methoxycarbonyl)bipheny	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration																	
Location					GTCS 1-50		GTCS 1-51		GTCS 1-52	GTCS 1-53	GTCS 1-54	GTCS 1-55	GTCS 1-56	GTCS 1-57	GTCS 1-58	GTCS 1-59	GTCS101		GTCS102	GTCS103	GTCS104
Date					06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	10/04/2019		10/04/2019	10/04/2019	10/04/2019
Sample Type					Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal	Normal	Normal
Sample Area					Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Tower Cordon	Tower Cordon	Tower Cordon	Tower Cordon	Tower Cordon
Field ID					GTCS 1-50A	GTCS 1-50A	GTCS 1-51A	GTCS 1-51A	GTCS 1-52A	GTCS 1-53A	GTCS 1-54A	GTCS 1-55A	GTCS 1-56A	GTCS 1-57A	GTCS 1-58A	GTCS 1-59A	GTCS101	DUP01	GTCS102	GTCS103	GTCS104
Sample_Depth_Range					0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
2,3,3,,5,6-Pentachloro-1,1-biphenyl	ug/kg	100			-	-	-	-	-	-	-	-	-	-	475	-	-	-	-	-	-
2,3,3,6-Tetrachloro-1,1-biphenyl	ug/kg	100			-	-	-	-	-	-	-	-	-	-	259	-	-	-	-	-	-
2,3,4,6-Tetrachloro-1,1-biphenyl	ug/kg	100			-	-	-	-	-	-	-	-	-	-	262	-	-	-	-	-	-
2,4,6-Cycloheptatrien-1-one, 2-phenyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dimethyldibenzothiophene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,9-Dimethyl-2,3,4,5,6,7hexahydro-1H-2-benza	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Bromo-4,5-dimethoxycinnamic acid	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2Chloro2methyl1oxa2sila-1,2-dihydronaphthale	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylchrysene	ug/kg	100			-	-	-	-	-	-	512	-	-	362	-	-	-	-	-	-	-
2-Propenal, 3-(4-hydroxy-3-methoxyphenyl)-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3-Dimethylbiphenyl	ug/kg	100			-	-	-	857	-	-	-	-	-	-	-	-	-	-	-	-	-
3,4:8,9-Dibenzopyrene	ug/kg	100			-	-	-	-	8,787	-	-	-	-	-	-	-	-	-	-	-	-
3,4-Dichlorobenzonitrile	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,5-Dimethoxy-4-hydroxycinnamaldehyde	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Bromo-5-ethoxy-4-hydroxybenzaldehyde	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4-Bis(tetrahydrothiopyran)	ug/kg	100			-	-	-	-	-	804	511	-	-	-	-	-	-	-	-	-	-
4H-Cyclopenta[def]phenanthrene	ug/kg	100			-	-	-	18,172	-	-	-	433	-	-	-	-	-	-	-	-	-
6H-Benz[de]anthracen-6-one	ug/kg	100			-	-	-	1,490	-	-	-	-	-	-	-	-	-	-	-	-	-
7H-Benz(de)anthracen-7-one	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8,9-Dihydro-7H-cyclopenta[a]pyrene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9,10-Anthracenedione	ug/kg	100	14,000#1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9,10-Anthracenedione, 2-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9,10-Bis(bromomethyl)anthracene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9,10-Dimethylanthracene	ug/kg	100			-	-	-	7,707	-	-	-	-	-	-	-	-	-	-	-	-	-
9-Anthracenecarbonitrile	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Cyclopenta[a]pyrene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluoren-9-ol	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluoren-9-one	ug/kg	100			-	-	-	3,761	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluorene, 1-methyl-	ug/kg	100			-	-	-	1,940	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluorene, 2-methyl-	ug/kg	100			-	-	-	1,333	-	-	-	-	-	-	-	-	-	-	-	-	-
9H-Fluorene, 9-methyl-	ug/kg	100			-	-	-	2,473	-	-	-	-	-	-	-	-	-	-	-	-	-
Abietic acid	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alloaromadendrene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthra(1,2-b)thiophene	ug/kg	100			-	-	-	3,334	-	-	531	-	-	-	-	-	-	-	-	-	-
Anthra(2,3-b)thiophene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene, 1-methyl-	ug/kg	100			-	-	-	-	-	576	-	-	-	-	-	169	-	-	-	-	-
Anthracene, 2-ethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene, 2-methyl-	ug/kg	100			-	-	-	7,713	-	-	-	-	-	233	-	-	-	-	-	-	-
Aromandendrene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz(A)anthracene-7,12-dione	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz(a)anthracene-7-carbonitrile	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz[a]anthracene, 12-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz[a]anthracene, 1-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benz[a]anthracene, 7-methyl-	ug/kg	100			-	-	-	9,215	-	762	-	-	-	-	-	-	-	-	-	-	-
Benz[j]aceanthrylene, 3-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde, 4-hydroxy-3,5-dimethoxy-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzenamine, 2,4,6-tribromo-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, (4,5,5-trimethyl-1,3-cyclopentadien-1	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Sulfonylbis (4-chlorobenzene)	ug/kg	100	51,000#1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzenesulfonamide, 4-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]naphtho[1,2-d]furan	ug/kg	100			-	-	-	4,079	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(c)carbazole	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]naphtho[1,2-d]thiophene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]naphtho[2,1-d]thiophene	ug/kg	100			-	-	-	7,544	-	727	-	443	296	-	-	-	-	-	-	-	-
Benzo[b]naphtho[2,3-d]furan	ug/kg	100			-	-	-	6,072	-	469	258	-	-	-	-	-	-	-	-	-	-
Benzo[b]naphtho[2,3-d]thiophene	ug/kg	100			-	-	-	-	-	-	-	-	-	289	-	-	-	-	-	-	-
Benzo[b]triphenylene	ug/kg	100			-	-	-	9,355	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[c]cinnoline	ug/kg	100			-	-	-	5,569	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[c]phenanthrene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(e)pyrene	ug/kg	100			1,393	1,113	23,694	24,414	1,368	2,719	1,974	1,822	1,542	1,655	500	1,048	-	-	-	-	-
Benzo[ghi]fluoranthene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[h]quinoline, 2,4-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[kl]xanthene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzoic acid, hexyl ester	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Biphenyl	ug/kg	100	160,000#3		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenylene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylated Hydroxytoluene	ug/kg	100	150,000#1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Camphor (TIC)	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene, 1-methyl-	ug/kg	100			-	-	-	-	-	-	-	410	403	-	-	-	-	-	-	-	-
Chrysene, 5-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene, 6-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopenta(cd)pyrene, 3,4-dihydro-	ug/kg	100			-	-	-	8,621	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopenta(def)phenanthrenone	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dehydroabietic acid	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-Homoandrostane, (5.alpha.,13.alpha.)-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,e)aceanthrylene	ug/kg	100			-	-	-	-	8,583	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,i)pyrene	ug/kg	100			-	-	-	-	3,176	-	125	-	-	-	-	-	-	-	-	-	-
Dibenzo[def,mno]chrysene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran, 4-methyl-	ug/kg	100			-	-	-	2,768	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzothiophene	ug/kg	100	780,000#1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzothiophene, 3-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzothiophene, 4,6-dimethyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dicyclohexyl phthalate	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diphenyl sulfide	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
di-p-Tolylacetylene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-Limonene	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Eicosane	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferruginol	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene, 2-methyl-	ug/kg	100			509	-	4,271	-	-	1,173	-	576	585	647	-	-	-	-	-	-	-
Fluorene, 2,4a-dihydro-	ug/kg	100			-	-	-	2,428	-	-	-	-	-	-	-	-	-	-	-	-	-
Heneicosane	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heneicosane, 3-methyl-	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptadecane	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexadecane	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexathiane	ug/kg	100			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	Location	GTCS 1-50		GTCS 1-51		GTCS 1-52	GTCS 1-53	GTCS 1-54	GTCS 1-55	GTCS 1-56	GTCS 1-57	GTCS 1-58	GTCS 1-59	GTCS101		GTCS102	GTCS103	GTCS104
					Date	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	10/04/2019		10/04/2019	10/04/2019	10/04/2019
					Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal	Normal	Normal
					Sample Area	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Tower Cordon	Tower Cordon	Tower Cordon	Tower Cordon	Tower Cordon
					Field ID	GTCS 1-50A	GTCS 1-50A	GTCS 1-51A	GTCS 1-51A	GTCS 1-52A	GTCS 1-53A	GTCS 1-54A	GTCS 1-55A	GTCS 1-56A	GTCS 1-57A	GTCS 1-58A	GTCS 1-59A	GTCS101	DUP01	GTCS102	GTCS103	GTCS104
					Sample_Depth_Range	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
Indene	ug/kg	100				-	-	-	1,445	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno[1,2,3-fg]naphthacene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indole, 5-methyl-2-(4-pyridyl)-	ug/kg	100				-	-	-	-	-	-	226	-	-	-	-	-	-	-	-	-	-
Isocil	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
isoledene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Longifolene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl dehydroabietate	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Morpholine, 4-(1-cyclohepten-1-yl)-	ug/kg	100				-	-	-	6,083	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,4,5-trimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,4,6-trimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,6,7-trimethyl-	ug/kg	100				-	-	-	2,037	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,6-dimethyl-	ug/kg	100				-	-	-	1,297	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,7-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,3,6-trimethyl-	ug/kg	100				-	-	-	1,231	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,3-dimethyl-	ug/kg	100				-	-	-	1,506	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,6-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2,7-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2-ethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 2-phenyl-	ug/kg	100				-	-	-	7,408	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphtho[1,2-b]thiophene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphtho[2,1,8,7-klmn]xanthene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphtho[2,1-b]thiophene	ug/kg	100				-	-	-	4,450	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Decanoic acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neocuproine	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexadecanoic Acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonadecane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Pentafluorosulfanyl-S,S-diphenoxysufilimine	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octadecane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octadecane, 1-iodo-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octadecanoic Acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octadecanoic acid, butyl ester	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
p-Cymene	ug/kg	4				<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Perylene	ug/kg	100				-	-	-	12,492	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene, 1-methyl-	ug/kg	100				-	-	-	15,948	-	521	-	-	-	-	-	120	-	-	-	-	-
Phenanthrene, 2,5-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene, 2-methyl-	ug/kg	100				-	135	-	7,956	-	434	384	278	230	-	-	-	-	-	-	-	-
Phenanthrene, 3,6-dimethyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene, 4-methyl-	ug/kg	100				273	-	-	-	-	-	233	212	171	173	-	-	-	-	-	-	-
Phenol, 2,6-dimethoxy-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol, 2,6-dimethoxy-4-(2-propenyl)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol, 2-methoxy-4-(1-propenyl)-, (Z)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene, 1,3-dimethyl-	ug/kg	100				-	-	-	1,499	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene, 1-methyl-	ug/kg	100				201	-	-	19,565	-	613	656	386	-	-	-	-	-	-	-	-	-
Pyrene, 2-methyl-	ug/kg	100				-	-	-	-	-	353	-	-	-	-	-	-	-	-	-	-	-
Quinoxaline, 6-(3-nitrobenzylidenamino)-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Retene	ug/kg	100				312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rubicene-	ug/kg	100				-	-	-	-	-	722	-	-	-	-	-	-	-	-	-	-	-
Tetrachloro-o-benzoquinone	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetracosane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetradecanoic acid	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Bis(methyldichlorosilyl)ethylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorovinylsilane	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triphenylene	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triphenylene, 2-methyl-	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-01	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-02	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-03	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-04	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-05	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-06	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-07	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-08	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-09	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-10	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-11	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-12	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-13	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-14	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-15	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-16	ug/kg	100				-	-	-	-	-	1,946	-	-	819	-	-	-	-	-	-	-	-
GT-SVOC-TIC-17	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GT-SVOC-TIC-18	ug/kg	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)naphtho(1,2-d)furan	ug/kg	100				-	-	-	4,079	-	-	-	-	-	-	-	-	-	-	-	-	-

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	Location	GTCS 1-50		GTCS 1-51		GTCS 1-52	GTCS 1-53	GTCS 1-54	GTCS 1-55	GTCS 1-56	GTCS 1-57	GTCS 1-58	GTCS 1-59	GTCS101		GTCS102	GTCS103	GTCS104
					Date	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	10/04/2019		10/04/2019	10/04/2019	10/04/2019
					Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal	Normal	Normal
					Sample Area	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Tower Cordon	Tower Cordon	Tower Cordon	Tower Cordon	Tower Cordon
					Field ID	GTCS 1-50A	GTCS 1-50A	GTCS 1-51A	GTCS 1-51A	GTCS 1-52A	GTCS 1-53A	GTCS 1-54A	GTCS 1-55A	GTCS 1-56A	GTCS 1-57A	GTCS 1-58A	GTCS 1-59A	GTCS101	DUP01	GTCS102	GTCS103	GTCS104
					Sample_Depth_Range	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
PAH																						
Acenaphthene	mg/kg	0.01	510[#2]			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	mg/kg	0.01	420[#2]			0.15	0.14	0.12	0.15	0.14	0.5	0.19	0.23	0.19	0.24	0.1	0.09	<0.01	<0.03 - 0.015	0.039 - 0.08	0.04 - 0.051	0.031 - 0.05
Anthracene	mg/kg	0.01	5,400[#2]			0.15	0.2	0.17	0.26	0.18	0.71	0.2	0.28	0.33	0.28	0.1	0.09	<0.04 - 0.016	<0.04 - 0.025	0.048 - 0.08	<0.04 - 0.059	0.046 - 0.08
Benz(a)anthracene	mg/kg	0.01	11[#2]			1.15	1.13	1.02	1.44	1.09	4.14	1.38	1.76	1.61	1.72	0.74	0.71	<0.06 - 0.077	<0.06 - 0.102	0.266 - 0.28	0.17 - 0.233	0.217 - 0.22
Benzo(a) pyrene	mg/kg	0.01	2.7[#2]	***3.6***		1.25	1.3	1.29	1.66	1.29	***4.54***	1.53	2.08	1.8	2.17	0.78	0.78	0.037 - 0.06	<0.04 - 0.059	0.25 - 0.253	0.16 - 0.207	0.22 - 0.225
Benzo(b)fluoranthene	mg/kg	0.01	3.3[#2]			1.76	1.81	1.71	2.23	1.78	6.03	2.09	2.97	2.47	2.9	1.09	1.09	0.052 - 0.08	0.06 - 0.077	0.303 - 0.32	0.242 - 0.27	0.253 - 0.35
Benzo(b)&(k)fluoranthene	mg/kg	0.01				2.45	2.51	2.38	3.1	2.47	8.37	2.9	4.13	3.43	4.03	1.51	1.52	0.072 - 0.11	0.09 - 0.107	0.421 - 0.45	0.336 - 0.37	0.351 - 0.48
Benzo(g,h,i)perylene	mg/kg	0.01	340[#2]			0.99	0.98	0.95	1.15	0.92	2.74	1.19	1.51	1.26	1.55	0.54	0.58	0.026 - 0.05	<0.04 - 0.04	0.162 - 0.23	0.13 - 0.16	0.142 - 0.19
Benzo(k)fluoranthene	mg/kg	0.01	93[#2]			0.69	0.7	0.67	0.87	0.69	2.34	0.81	1.16	0.96	1.13	0.42	0.43	0.02 - 0.03	0.03	0.118 - 0.13	0.094 - 0.1	0.098 - 0.13
Chrysene	mg/kg	0.01	22[#2]			1.11	1.23	1.05	1.58	1.15	3.9	1.36	1.86	1.59	1.82	0.74	0.68	0.055 - 0.06	0.04 - 0.077	0.229 - 0.24	0.19 - 0.219	0.191 - 0.22
Coronene	mg/kg	0.04				0.26	0.24	0.22	0.25	0.21	0.64	0.27	0.34	0.27	0.34	0.12	0.13	<0.04	<0.04	0.06	<0.04	<0.04
Dibenz(a,h)anthracene	mg/kg	0.01	0.28[#2]			0.21	0.15	0.16	0.27	0.15	0.74	0.27	0.38	0.22	0.37	0.14	0.1	<0.01	<0.01	<0.04 - 0.049	<0.04 - 0.038	0.04 - 0.06
Fluoranthene	mg/kg	0.01	560[#2]			1.78	2.07	2.11	2.81	2.09	8.48	2.49	3.34	3.38	3.23	1.35	1.1	0.086 - 0.1	0.06 - 0.164	0.33 - 0.399	0.27 - 0.287	0.32 - 0.44
Fluorene	mg/kg	0.01	400[#2]			<0.04	0.04	<0.04	0.05	<0.04	0.09	<0.04	<0.04	0.05	0.04	<0.04	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(1,2,3-c,d)pyrene	mg/kg	0.01	36[#2]			0.89	0.91	0.89	1.03	0.88	2.77	1.1	1.47	1.18	1.52	0.52	0.56	<0.04 - 0.024	<0.04 - 0.037	0.155 - 0.21	0.108 - 0.15	0.12 - 0.19
Naphthalene	mg/kg	0.01	5.6[#2]			<0.027 - 0.06	<0.027 - 0.06	<0.027 - 0.09	<0.027 - 0.1	<0.027 - 0.08	<0.027 - 0.15	<0.027 - 0.13	<0.027 - 0.09	<0.027 - 0.09	<0.027 - 0.09	<0.027	<0.027	<0.01	<0.01	<0.01	<0.027 - 0.016	<0.01
Phenanthrene	mg/kg	0.01	220[#2]			0.49	0.73	0.77	0.98	0.67	2.37	0.74	1.03	1.15	1.01	0.26	0.3	0.029 - 0.05	<0.03 - 0.051	0.104 - 0.11	0.1 - 0.114	0.11 - 0.19
Pyrene	mg/kg	0.01	1,200[#2]			1.53	1.71	1.85	2.44	1.84	7.57	2.21	2.93	2.81	2.83	1.19	0.99	0.076 - 0.09	0.06 - 0.138	0.33 - 0.349	0.25 - 0.271	0.275 - 0.37
PAH 16 Total	mg/kg	0.6				12.2	13.2	12.9	17	13	47.1	15.7	21.1	19.1	20.9	8	7.5	-	-	-	-	-
PAH 17 Total	mg/kg	0.64				12.47	13.4	13.07	17.27	13.16	47.71	15.96	21.43	19.36	21.24	8.09	7.63	<0.64	<0.64	2.65	1.86	2.71
PCB (Dutch 7) congeners																						
PCB 28	ug/kg	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	43	9	-	-	-	-	-
PCB 52	ug/kg	5				<5	<5	<5	<5	14	<5	<5	<5	<5	<5	100	29	-	-	-	-	-
PCB 101	ug/kg	5				<5	7	<5	<5	16	<5	<5	<5	<5	<5	86	25	-	-	-	-	-
PCB 118	ug/kg	5	120[#1]			<5 - 3.92	2.53 - 6	7 - 8.2	<5 - 5.59	24 - 33.1	<5 - 2.71	<5 - 1.12	<5 - 0.863	<5 - 2.26	<5 - 5.75	115 - 154	31 - 52.4	<5	<5	<5	<5	<5
PCB 138	ug/kg	5				7	12	<5	<5	9	<5	<5	<5	<5	<5	30	9	-	-	-	-	-
PCB 153	ug/kg	5				<5	9	<5	<5	7	<5	<5	<5	<5	<5	25	8	-	-	-	-	-
PCB 180	ug/kg	5				<5	7	<5	<5	<5	<5	<5	<5	<5	<5	8	<5	-	-	-	-	-
Total PCB 7 Congeners	ug/kg	35	200[#5]			<35	41	<35	<35	70	<35	<35	<35	<35	<35	407	111	-	-	-	-	-
PCB (WHO12) 12 congeners																						
Tetrachlorobiphenyl, 3,3,4,4- (PCB 77)	ug/kg	Various	38[#1]			0.174	0.282	0.977	0.437	3.29	0.227	0.069	0.0557	0.222	0.594	0.595	0.579	<5	<5	<5	<5	<5
Tetrachlorobiphenyl, 3,4,4,5- (PCB 81)	ug/kg	Various	12[#1]			0.00534	0.00854	0.0446	0.0227	0.14	0.0086	0.00323	0.00221	0.0102	0.0254	0.0253	0.0242	<5	<5	<5	<5	<5
Pentachlorobiphenyl, 2,3,3,4,4- (PCB 105)	ug/kg	Various	120[#1]			2	1.39	5.17	3.61	21.5	1.63	0.536	0.405	1.35	3.42	103	34.9	<5	<5	<5	<5	<5
Pentachlorobiphenyl, 2,3,4,4,5- (PCB 114)	ug/kg	Various	120[#1]			0.0301	0.0358	0.14	0.111	0.787	0.047	0.0151	0.0106	0.045	0.11	4.53	1.21	<5	<5	<5	<5	<5
Pentachlorobiphenyl, 2,3',4,4',5- (PCB-118)	ug/kg	Various	120[#1]			3.92	2.53	8.2	5.59	33.1	2.71	1.12	0.863	2.26	5.75	154	52.4	<5	<5	<5	<5	<5
Pentachlorobiphenyl, 2,3,4,4,5- (PCB 123)	ug/kg	Various	120[#1]			0.162	0.12	0.311	0.211	1.04	0.0983	0.0304	0.0227	0.0897	0.221	6	1.65	<5	<5	<5	<5	<5
Pentachlorobiphenyl, 3,3,4,4,5- (PCB 126)	ug/kg	Various	0.036[#1]			0.017	0.023	0.0462	0.0208	0.12	0.0154	0.00859	0.00329	0.0114	0.0352	0.0313	0.0276	<5	<5	<5	<5	<5
Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 156)	ug/kg	Various	120[#1]			0.803	0.595	0.496	0.329	1.49	0.233	0.21	0.161	0.239	0.59	6.27	2.27	<5	<5	<5	<5	<5
Hexachlorobiphenyl, 2,3,3,4,4,5- (PCB 157)	ug/kg	Various	120[#1]			0.255	0.233	0.137	0.101	0.398	0.0804	0.0608	0.051	0.0727	0.183	1.62	0.589	<5	<5	<5	<5	<5
Hexachlorobiphenyl, 2,3,4,4,5,5- (PCB 167)	ug/kg	Various	120[#1]			0.388	0.339	0.195	0.136	0.552	0.105	0.0897	0.073	0.101	0.244	2.07	0.757	<5	<5	<5	<5	<5
Hexachlorobiphenyl, 3,3,4,4,5,5- (PCB 169)	ug/kg	Various	0.12[#1]			<0.000665	0.000701	0.00288	<0.000298	0.00102	<0.000352	0.0013	0.0008	0.000306	0.000518	0.00174	0.000736	<5	<5	<5	<5	<5
Heptachlorobiphenyl, 2,3,3,4,4,5,5- (PCB 189)	ug/kg	Various	130[#1]			0.0725	0.0718	0.0263	0.0207	0.0515	0.0189	0.0209	0.0191	0.0202	0.0431	0.173	0.0718	<5	<5	<5	<5	<5
Chlorinated Dioxins and Furans																						
2378-TCDF	ng/kg	Various				<0.806	4.1	8.64	<1.34	<2.86	<1.395	4.75	3.39	5.45	<0.591	5.07	5.88	1.46	1	1.01	1	5.88
12378-PeCDD	ng/kg	Various				<0.894	2.02	0.929	<0.599	<0.639	<0.719	1.41	1.09	0.71	<0.548	0.63	<0.581	1	1	1	1	1
123478-HxCDD	ng/kg	Various				<1.972	3.22	1.25	<0.887	<0.888	<0.81	0.717	1.28	0.976	1.68	0.537	<0.712	1	1	1	1	0.865
123678-HxCDD	ng/kg	Various				13.8	13.9	6.06	<0.9	<0.932	2.04	2.96	3.85	2.55	3.16	4.99	3.95	1	1	0.86	1	1.94
123789 HxCDD	ng/kg	Various				5.43	7.15	3.85	<0.927	<0.96	<0.849	2.8	<0.577	1.95	1.96	2.57	1.25	1	1	1	1	0.877
1234678-HpCDD	ng/kg	Various				403	542	88.9	61.4	72.5	79.1	80.1	73.7	74.7	126	116	118	1	19.1	27.2	52.3	55.1
OCDD	ng/kg	Various				3,390	4,500	562	439	568	480	655	557	612	1,140	1,110	1,060	130	119	214	336	350
OCDF	ng/kg	Various				134	214	44.6	31.2	29.5	26.6	39.1	36.8	40.3	63.8	58	58.1	2.62	2	10.3	18.8	12.6
2378-TCDD	ng/kg	Various				<0.363	<0.538	<0.729	<0.407	<0.459	<0.302	<0.316	<0.36	<0.3	<0.335	<0.282	<0.31	1	1	1	1	1
12378-PeCDF	ng/kg	Various				<0.574	2.78	7.1	4.81	2.34	4.79	4.25	3.94	1.66	5.52	3.89	5.49	0.69	1	1	1	2.27
23478-PeCDF	ng/kg	Various				<0.641	4.08	10.4	<0.759	<0.796	<0.689	6.05	<0.451	4.84	4.68	3.56	5.7	1	1	1	0.657	2.52
123478-HxCDF	ng/kg	Various				3.26	7.3	14.1	3.85	<0.72	4.14	8.12	7.4	7.22	8.09	7.19	8.38	1	0.998	1	1	1.7
123678-HxCDF	ng/kg	Various				4.69	4.77	11.3	<0.774	<0.723	<0.74	5.01	4.06	4.51	4.26	3.89	3.95	1	1	1	1	2.91
234678-HxCDF	ng/kg	Various				2.12	6.77	9.98	<0.751	<0.579	<0.59	5.1	5.04	3.78	2.57	4.09	1.69	1	1.1	1	1	1
123789-HxCDF	ng/kg	Various				<1.024	<0.523	0.954	<0.891	<0.827	<0.719	0.712	0.648	<0.325	0.819	0.918	0.672	1	1	1	1	0.752
1234678-HpCDF	ng/kg	Various				111	93.9	52.8	30.6	44.3	39.6	33.9	29.4	28.3	40	35.9	36.8	6.8	7.48	8.34	9.44	11.1
1234789-HpCDF	ng/kg	Various				4.73	6.1	5.05	3.21	<1.373	<1.369	2.95	1.68	2.12	3.7	3.59	2.74	1	0.537	0.505	1	1.39
Brominated Dioxins and Furans																						
2378-TBDD	ng/kg	Various				<0.79	<0.8	<0.83	<0.8	<0.83	<0.78	<0.8	<0.82	<0.84	<0.85	<0.83	<0.82	-	-	-	-	-
12378-PBDD	ng/kg	Various				<0.8	<0.8	<0.82	<0.82	<0.82	<0.8	<0.8	<0.8	<0.8	<0.82	<0.82	<0.82	-	-	-	-	-
123478-HxBDD	ng/kg	Various				<0.77	<0.76	<0.83	<0.8	<0.83	<0.83	<0.81	<0.84	<0.84	<0.84	<0.83	<0.84	-	-	-	-	-
123678-HxBDD	ng/kg	Various				<0.74	<0.77	<0.84	<0.84	<0.84	<0.81	<0.81	<0.83	<0.83	<0.85	<0.85	<0.85	-	-	-	-	-
123789-HxBDD	ng/kg	Various				<0.82	<0.8	<0.82	<0.83	<0.83	<0.83	<0.8	<0.8	<0.81	<0.81	<0.83	<0.84	-	-	-	-	-
1234678-HpBDD	ng/kg	Various				<0.84	<0.8	<0.8	<0.8	<0.81	<0.82	<0.84	<0.85	<0.85	<0.83	<0.83	<0.83	-	-	-	-	-
OBDD	ng/kg	Various				<0.82	<0.82	<0.8	<0.82	<0.82	<0.84	<0.85	<0.85	<0.83	<0.85	<0.84	<0.81	-	-	-	-	-
2378-TBDF	ng/kg	Various				5.17	6.94	4.87	1.97	1.65	1.33	2.76	2.33	3.03	3.5	3.06	2.84	-	-	-	-	-
12378-PBDF	ng/kg	Various				3.57	4.33	3.3	1.28	1.09	1.26	1.98	1.41	2.09	2.36	1.85	2.13	-	-	-	-	-
23478-PBDF	ng/kg	Various				1.96	2.28	1.78	0.83	1	1.1	2.2	0.88	1.26	1.09	1.68	1.77	-	-	-	-	-
123478-HxBDF	ng/kg	Various				1.55	1.19	1.55	<0.77	0.8	0.97	2.34	0.75	1.04	1.74	2.22	1.48	-	-	-	-	-
123678-HxBDF	ng/kg	Various				1.73	2.04	1.41	<0.77	<0.77	<0.8	0.91	0.86	1.66	1.3	1.19	1.87	-	-	-	-	-
234678-HxBDF	ng/kg	Various				<0.8	0.97	<0.8	<0.8	<0.83	<0.83	<0.79	<0.8	<0.85	<0.85	<0.84	0.86	-	-	-	-	-
123789-HxBDF	ng/kg	Various				<0.8	<0.8	<0.8	<0.81	<0.81	<0.8	<0.8	<0.8	<0.83	<0.84	<0.84	<0.83	-	-	-	-	-
1234678-HpBDF	ng/kg	Various				1.03	1.55	0.98	<0.78	<0.82	<0.82	<0.82	<0.84	<0.84	<0.84	<0.83	<0.83	-	-	-	-	-
1234789-HpBDF	ng/kg	Various				<0.77	<0.77	<0.77	<0.79	<0.8	<0.79	<0.83	<0.83	<0.83	<0.85	<0.84	<0.81	-	-	-	-	-
OBDF	ng/kg	Various				<0.8	<0.79	<0.81	<0.81	<0.83	<0.83	<0.84	<0.85	<0.85	<0.85	<0.83	<0.82	-	-	-	-	-
Organophosphorous flame retardants																						
Triphenylphosphate	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-
Tris(1-chloro-2-propyl)phosphate	mg/kg	Various	630[#1]			<0.15	<0.15	<0.15	<0.5	<0.15	<0.15	<0.15	<0.15	<0.15	<0.2	<0.1	<0.2	-	-	-	-	-
Tris(2-ethylhexyl) phosphate	mg/kg	0.1	170[#1]			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-

Appendix TN18-A
Table A
Tabulated Laboratory Data

	Units	Method Detection Limit	Generic Screening Criteria (GSC)	Normal Background Concentration	Location	GTCS 1-50		GTCS 1-51		GTCS 1-52	GTCS 1-53	GTCS 1-54	GTCS 1-55	GTCS 1-56	GTCS 1-57	GTCS 1-58	GTCS 1-59	GTCS101		GTCS102	GTCS103	GTCS104
					Date	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	06/06/2019	10/04/2019		10/04/2019	10/04/2019	10/04/2019
					Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal	Normal	Normal
					Sample Area	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Waynflete Square	Tower Cordon	Tower Cordon	Tower Cordon	Tower Cordon	Tower Cordon
					Field ID	GTCS 1-50A	GTCS 1-50A	GTCS 1-51A	GTCS 1-51A	GTCS 1-52A	GTCS 1-53A	GTCS 1-54A	GTCS 1-55A	GTCS 1-56A	GTCS 1-57A	GTCS 1-58A	GTCS 1-59A	GTCS101	DUP01	GTCS102	GTCS103	GTCS104
					Sample_Depth_Range	0-0.05	0.1-0.15	0-0.05	0.1-0.15	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05	0-0.05
Brominated flame retardents (PBDEs)																						
2,2",4-tribromodiphenyl ether (BDE-17)	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-
2,4,4"-tribromodiphenyl ether (BDE-28)	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-
2,2",4,4"-tetrabromodiphenyl ether (BDE-47)	mg/kg	0.1	6.3[#1]			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-
2,3",4,4"-tetrabromodiphenyl ether (BDE-66)	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-
2,2",3,4,4"-pentabromodiphenyl ether (BDE-85	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-
2,2",4,4",5-pentabromodiphenyl ether (BDE-99	mg/kg	0.1	6.3[#1]			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-
2,2",4,4",6-pentabromodiphenyl ether (BDE-10	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-
2,2",3,4,4",5"-hexabromodiphenyl ether(BDE-1	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-
2,2",4,4",5,5"-hexabromodiphenyl ether(BDE-1	mg/kg	0.1	13[#1]			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-
2,2",4,4",5,6"-hexabromodiphenyl ether(BDE-1	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-
2,2,3,4,4,5,6-heptabromodiphenyl ether (BDE-1	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-
Polybrominated biphenyls (PBBs)																						
2,2-dibromobiphenyl (PBB 4)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
4,4-dibromobiphenyl (PBB 15)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
2,2,5-tribromobiphenyl (PBB 18)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
tetrabromobiphenyl (3,3,5,5-) (PBB 80)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Hexabromobiphenyl (PBB 153)	mg/kg	0.5	0.018[#1]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Tetrabromobisphenol A																						
tetrabromobisphenol A	mg/kg	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Hexabromocyclododecane (HBCDD)																						
Hexabromocyclododecane (HBCDD)	mg/kg	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-
Isocyanates																						
Isocyanic Acid	ug/kg	250				<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	-	-	-	-	-
Methyl Isocyanate	ug/kg	250	4,600[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	-	-	-	-	-
Ethyl Isocyanate	ug/kg	250				<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	-	-	-	-	-
Propyl Isocyanate	ug/kg	250				<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	-	-	-	-	-
Phenyl Isocyanate	ug/kg	250				<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	-	-	-	-	-
Hexamethylene diisocyanate	ug/kg	250	3,100[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	-	-	-	-	-
2,4-Toluene diisocyanate	ug/kg	250	6,400[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	-	-	-	-	-
2,6-Toluene diisocyanate	ug/kg	250	5,300[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	-	-	-	-	-
Isophorone Diisocyanate	ug/kg	500				<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	-	-	-	-	-
4,4-Methylene-bis(phenyl-isocyanate)	ug/kg	250	850,000,000[#1]			<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	-	-	-	-	-
Cyanides																						
Cyanide (Free)	mg/kg	0.5	20[#5]			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Cyanide Total	mg/kg	0.5	78[#1]			0.9	1.1	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5
Thiocyanate	mg/kg	0.6	20[#5]			0.9	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	1.6	-	-	-	-	-
Asbestos																						
General Description (Bulk Analysis)	None					Soil/Stone	Soil/Stone	Soil/Stone	Soil/Stone	soil-stones	soil-stones	soil-stones	soil-stones	Soil/Stones	Soil/Stones	Soil/Stones	Soil/Stones	soil-stones	soil-stones	soil-stones	soil-stones	soil-stones
Asbestos Fibres	None					NAD	Fibre Bundles	NAD	Fibre Bundles	Fibre Bundles	NAD	NAD	Fibre Bundles	NAD	NAD	NAD	Fibre Bundles	NAD	NAD	NAD	Fibre Bundles	NAD
Asbestos ACM	None					NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	ACM Debris	NAD	NAD	NAD	NAD	NAD
Asbestos Type	None					NAD	Chrysotile	NAD	Amosite	Amosite	NAD	NAD	Chrysotile	NAD	NAD	NAD	Chrysotile	NAD	NAD	NAD	Chrysotile	NAD
Asbestos Level Screen						NAD	less than 0.1%	NAD	less than 0.1%	less than 0.1%	NAD	NAD	less than 0.1%	NAD	NAD	NAD	less than 0.1%	NAD	NAD	NAD	less than 0.1%	NAD
Potentially Respirable Fibres per gram	f/g	0				-	0	-	0	0	-	-	0	-	-	-	0	-	-	-	-	-
SVF / MMMF																						
Synthetic/MMMF	None					Present	Present	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	-	-	-	-	-
Asbestos Quantification																						
Asbestos Gravimetric & PCOM Total	mass %	0.001				-	<0.001	-	<0.001	<0.001	-	-	<0.001	-	-	-	0.083	-	-	-	-	-
Asbestos PCOM Quantification (Fibres)	mass %	0.001				-	<0.001	-	<0.001	<0.001	-	-	<0.001	-	-	-	<0.001	-	-	-	-	-
Total ACM Gravimetric Quantification (% Asb)	mass %	0.001				-	<0.001	-	<0.001	<0.001	-	-	<0.001	-	-	-	<0.001	-	-	-	-	-
Total Detailed Gravimetric Quantification (% As	mass %	0.001				-	<0.001	-	<0.001	<0.001	-	-	<0.001	-	-	-	0.083	-	-	-	-	-
Asbestos Quantification - Total - %	mass %	0.001				-	<0.001	-	<0.001	<0.001	-	-	<0.001	-	-	-	0.083	-	-	-	-	-
Total Organic Carbon																						
TOC	percent	0.02				4.15	2.4	3.81	2.63	3.64	4.03	3.67	3.68	3.42	3.88	2.31	5.86	2.3	2.57	2.15	-	3.24
Inorganics																						
pH (Lab)	pH units	0.01				7.64	7.84	7.44	7.76	7.42	7.74	7.38	7.6	7.53	7.46	7.08	7.49	-	-	-	-	-
Other																						
Natural Moisture Content	percent	0.1				12.4	10.1	11	8.5	9.9	8.3	9.8	10.3	8.9	9.5	7.3	11.4	24	24.6	25.4	23.7	29.1
ESdat Calculated																						
Cresols Total	ug/kg	20	180[#3]			<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Benzo(a)pyrene (surrogate marker for PAH mix	mg/kg	0.01	5.0[#6]			1.25	1.3	1.29	1.66	1.29	4.54	1.53	2.08	1.8	2.17	0.78	0.78	0.06	0.059	0.253	0.207	0.225
Xylene Total	ug/kg	8	130,000[#2]			<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Trichlorobenzene (total)	ug/kg	14	2200[#5]			<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
AECOM Calculated																						
Sum of PCDD/F +PCB12	ng/kg	Various	8700[#4]			11930	11069	16597	11187	63213	5834	3038	2414	5232	12644	279697	95814	n/a	n/a	n/a	n/a	n/a
PCDD/F+PBDD/F+PCB12 Hazard Index	-	-	1			0.12	0.2	0.19	0.05	0.2	0.05	0.1	0.06	0.09	0.12	0.23	0.15	0.003		0.006	0.008	0.03
WHO2005 TEQ (PCDD/F + PBDD/F + PCB)	ng/kg	Various				12.671	20.335	18.208	4.54	16.163	4.411	10.035	6.108	8.415	10.852	19.426	13.323	0.274	-	0.615	0.921	3.101

Comments
#1 USEPA RSL (May 2019)
#2 LQM/CIEH S4ULs 2015
#3 EIC/AGS/CL:AIRE 2010
#4 EA SGV 2009
#5 Dutch IV 2013
#6 Defra C4SL 2014
#7 AECOM (modified EIC GAC to include plant uptake route)
GSC based on residential (with private gardens) land use scenario
2.5% soil organic matter content selected for GSC #2 and #3
(blank): No assessment criteria available
 - : Not analysed
Field_D: Field Duplicate
NAD: No Asbestos Detected